



IES ROAD REPORT
PHOTOMETRIC FILENAME : VN43QF1X45U5K.IES

DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 7,732
[TESTLAB] CSA Group
[ISSUEDATE] 12/11/2014 11:49:14 AM
[MANUFAC] DuraGuard
[LUMINAIRE] VN43QF1X45U5K
[_AMBIENT] 25.1 deg C
[_POWERFACTOR] 0.9942
[_ATHD] 6.07%
[_CURRENT] 0.43307
[_VOLTAGE] 120.09
[_STABILIZATION] 29:22.7 Stable
[_POWER VARIATION] 0.25 %
[_LIGHT VARIATION] 0.49 %
[_Lumens] 5,425.55

CHARACTERISTICS

IES Classification	Type VS
Longitudinal Classification	Very Short
Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5427
Downward Total Efficiency	N.A. (absolute)
Total Luminaire Efficiency	N.A. (absolute)
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	51.72
Ballast Factor	1.00
Upward Waste Light Ratio	0.07
Maximum Candela	1690.54
Maximum Candela Angle	300H 2.5V
Maximum Candela (<90 Degrees Vertical)	1690.54
Maximum Candela Angle (<90 Degrees Vertical)	300H 2.5V
Maximum Candela At 90 Degrees Vertical	179.42 (3.3% Luminaire Lumens)
Maximum Candela from 80 to <90 Degrees Vertical	364.64 (6.7% Luminaire Lumens)
Cutoff Classification (deprecated)	N.A. (absolute)

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LUMINAIRE CLASSIFICATION SYSTEM (LCS)

	Lumens	% Lamp	% Luminaire
FL - Front-Low (0-30)	640.1	N.A.	11.8
FM - Front-Medium (30-60)	1215.3	N.A.	22.4
FH - Front-High (60-80)	557.3	N.A.	10.3
FVH - Front-Very High (80-90)	122.2	N.A.	2.3
BL - Back-Low (0-30)	639.7	N.A.	11.8
BM - Back-Medium (30-60)	1208.3	N.A.	22.3
BH - Back-High (60-80)	555.8	N.A.	10.2
BVH - Back-Very High (80-90)	123.5	N.A.	2.3
UL - Uplight-Low (90-100)	137.7	N.A.	2.5
UH - Uplight-High (100-180)	227.0	N.A.	4.2
Total	5426.9	N.A.	100.0
BUG Rating	B2-U3-G2		

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CANDELA TABULATION

Vert. Angles	Horizontal Angles									
	0	10	20	30	40	50	60	70	80	90
0.0	1688.16	1688.16	1688.16	1688.16	1688.16	1688.16	1688.16	1688.16	1688.16	1688.16
2.5	1681.39	1684.76	1681.53	1682.49	1684.21	1681.21	1685.95	1683.40	1683.41	1682.79
5.0	1674.10	1670.29	1671.22	1670.55	1669.94	1670.42	1669.81	1667.93	1667.95	1667.70
7.5	1663.91	1660.36	1661.43	1660.59	1657.41	1659.46	1655.24	1656.25	1653.96	1654.78
10.0	1639.84	1642.90	1637.88	1639.25	1640.12	1636.54	1638.81	1636.98	1637.29	1635.23
12.5	1622.85	1614.86	1613.64	1611.45	1611.07	1609.49	1610.32	1607.86	1608.17	1605.95
15.0	1589.72	1588.46	1590.77	1587.06	1578.74	1585.13	1580.69	1581.88	1579.11	1579.49
17.5	1563.99	1560.73	1559.60	1558.11	1546.41	1554.78	1552.63	1551.33	1551.10	1550.72
20.0	1525.30	1522.72	1519.82	1520.16	1514.07	1517.68	1516.69	1510.78	1510.52	1509.22
22.5	1486.64	1481.59	1484.50	1482.93	1481.74	1483.97	1475.98	1470.39	1467.86	1465.77
25.0	1446.00	1443.42	1445.21	1447.14	1445.85	1446.67	1439.80	1433.50	1428.19	1425.38
27.5	1396.66	1397.03	1397.65	1402.54	1405.31	1401.05	1397.47	1386.05	1381.70	1377.28
30.0	1353.37	1349.69	1354.45	1359.51	1360.69	1359.82	1350.18	1339.06	1331.93	1327.32
32.5	1307.04	1305.90	1311.84	1318.41	1318.64	1317.12	1306.83	1298.12	1283.29	1281.86
35.0	1253.30	1258.14	1263.84	1270.36	1274.36	1268.58	1262.25	1248.60	1236.49	1231.41
37.5	1206.19	1207.53	1216.73	1222.47	1223.32	1218.93	1211.27	1197.66	1185.30	1177.13
40.0	1160.77	1159.79	1172.28	1180.88	1179.18	1176.32	1161.97	1151.52	1133.21	1128.56
42.5	1106.66	1111.22	1121.53	1132.24	1135.01	1129.21	1119.13	1103.68	1085.36	1079.50
45.0	1053.31	1058.04	1070.36	1078.96	1083.52	1078.10	1068.85	1051.33	1036.51	1027.25
47.5	1004.61	1008.27	1024.38	1032.90	1034.15	1032.69	1019.29	1003.34	981.55	973.57
50.0	952.33	958.94	974.55	985.97	988.65	983.24	971.69	953.69	930.55	923.26
52.5	895.92	903.34	920.87	933.03	937.86	931.02	921.49	901.46	882.15	869.36
55.0	844.51	852.00	868.20	879.04	882.05	878.61	868.52	851.26	828.86	816.49
57.5	791.62	803.19	817.78	828.66	830.73	828.90	816.63	801.45	776.71	764.95
60.0	735.54	745.51	761.26	774.01	777.77	771.80	763.98	747.99	725.24	710.58
62.5	678.16	689.50	704.95	718.15	721.62	717.81	706.41	689.56	668.76	652.91
65.0	622.33	634.31	652.64	661.62	665.40	664.04	650.86	635.18	610.98	598.44
67.5	562.92	577.07	592.52	603.03	607.53	604.62	594.69	577.38	555.53	540.14
70.0	496.51	503.18	529.70	542.46	546.28	544.75	522.37	507.29	492.83	480.11
72.5	445.86	457.95	476.05	484.68	486.16	485.17	476.08	462.76	440.57	425.22
75.0	384.32	399.20	417.14	428.66	432.68	431.87	420.84	404.21	383.23	367.39
77.5	327.10	340.79	357.59	368.65	373.43	374.21	363.93	345.88	325.88	310.76
80.0	273.09	286.44	304.64	314.28	318.36	318.09	308.58	294.10	273.61	258.41
82.5	220.06	234.37	250.85	263.53	268.54	267.29	259.37	244.22	225.05	210.46
85.0	177.66	190.39	205.37	218.07	224.43	223.16	212.75	199.19	181.80	169.34
87.5	140.51	152.80	167.02	179.51	185.72	184.12	176.10	162.68	146.08	135.53
90.0	119.34	129.30	143.51	154.62	161.11	160.14	152.77	140.15	125.33	116.09
92.5	110.09	117.82	130.72	141.35	146.73	146.25	139.17	127.94	114.22	107.85
95.0	102.74	107.90	119.19	129.26	134.12	133.27	127.35	117.11	105.93	101.04
97.5	96.78	99.92	110.24	118.90	123.26	123.50	117.51	108.02	98.24	95.35
100.0	91.91	93.72	102.23	109.92	113.89	113.87	108.97	100.52	92.25	91.07
102.5	87.05	87.47	94.60	101.72	105.47	105.00	100.58	93.15	86.90	86.13
105.0	82.49	81.96	87.73	93.88	97.47	97.15	93.17	86.53	81.14	81.79
107.5	77.57	76.93	80.39	86.57	89.87	89.22	85.46	79.77	76.45	77.04
110.0	72.91	71.48	73.69	78.66	81.82	81.45	78.27	73.16	71.41	72.39
112.5	67.73	66.67	67.02	71.69	74.17	74.12	70.80	66.16	66.40	67.67
115.0	62.72	61.32	60.10	64.03	66.87	66.31	63.77	59.48	61.36	62.58
117.5	57.91	56.06	53.48	56.92	59.01	58.93	56.42	53.45	56.28	57.48
120.0	52.58	51.22	47.68	49.64	51.75	51.51	49.08	48.39	51.56	52.71
122.5	47.81	46.36	43.01	42.38	44.23	44.17	42.10	43.33	46.57	47.55
125.0	42.91	41.47	38.19	36.01	37.27	37.09	35.30	38.51	41.68	42.95
127.5	38.09	36.84	33.48	28.84	30.43	30.18	28.95	33.91	37.32	38.09
130.0	33.62	32.24	29.18	23.80	23.70	23.63	24.72	29.72	32.69	33.76

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CANDELA TABULATION - (Cont.)

132.5	29.28	28.01	24.97	19.71	17.15	16.98	20.70	25.73	28.50	29.47
135.0	24.55	23.63	20.55	15.96	10.71	10.91	16.65	21.27	23.87	24.87
137.5	20.34	19.48	16.62	12.06	6.33	7.24	13.06	17.22	20.09	20.75
140.0	16.25	14.99	12.58	8.50	3.09	3.89	9.41	13.25	15.87	16.67
142.5	12.14	11.09	8.82	4.75	2.81	2.96	5.67	9.54	11.80	12.72
145.0	7.94	6.97	4.38	3.00	3.17	3.06	3.12	5.54	7.67	8.52
147.5	3.73	3.62	3.29	3.14	3.44	3.47	3.26	3.18	3.76	4.04
150.0	3.54	3.41	3.35	3.37	3.21	3.36	3.33	3.42	3.29	3.40
152.5	3.63	3.45	3.62	3.56	3.58	3.58	3.64	3.63	3.74	3.56
155.0	3.75	3.87	3.82	3.78	3.75	3.68	3.80	3.71	3.84	3.75
157.5	3.88	3.96	3.85	3.95	3.83	3.80	3.84	3.89	3.83	4.01
160.0	4.15	4.07	4.03	3.96	4.03	4.10	4.04	4.07	4.03	4.06
162.5	4.24	4.04	4.21	4.35	4.13	4.19	4.18	4.16	4.11	4.24
165.0	4.22	4.15	4.29	4.31	4.19	4.31	4.21	4.20	4.29	4.16
167.5	4.24	4.41	4.14	3.92	4.26	4.21	3.93	4.32	4.15	4.37
170.0	4.53	4.31	4.61	4.27	4.50	4.48	4.41	4.71	4.35	4.38
172.5	4.47	4.59	4.70	4.60	4.57	4.55	4.50	4.61	4.59	4.59
175.0	4.74	4.81	4.53	4.76	4.82	4.64	4.73	4.71	4.73	4.63
177.5	4.94	4.91	4.91	4.81	4.93	4.76	4.84	4.97	5.05	4.86
180.0	5.26	5.26	5.26	5.26	5.26	5.26	5.26	5.26	5.26	5.26

Vert. Angles **Horizontal Angles**

	100	110	120	130	140	150	160	170	180	190
0.0	1688.16	1688.16	1688.16	1688.16	1688.16	1688.16	1688.16	1688.16	1688.16	1688.16
2.5	1684.27	1681.82	1679.57	1683.91	1682.51	1679.34	1684.68	1681.29	1688.75	1683.41
5.0	1667.50	1673.59	1673.00	1668.57	1667.75	1672.89	1673.12	1675.36	1677.72	1680.55
7.5	1653.55	1652.66	1655.55	1654.10	1657.29	1659.85	1654.94	1656.39	1664.11	1670.57
10.0	1636.73	1632.29	1631.21	1638.51	1637.49	1634.94	1639.44	1636.82	1652.70	1649.94
12.5	1607.74	1611.42	1610.32	1608.74	1609.13	1612.68	1616.24	1618.11	1631.50	1631.31
15.0	1577.99	1579.54	1582.38	1579.84	1583.16	1587.54	1584.74	1587.37	1603.42	1609.71
17.5	1549.66	1544.95	1546.33	1552.21	1554.26	1552.40	1554.66	1553.66	1575.78	1575.14
20.0	1510.27	1512.49	1512.88	1517.51	1517.82	1516.90	1522.71	1521.97	1542.40	1540.55
22.5	1465.82	1473.11	1476.78	1476.44	1481.98	1483.41	1478.12	1482.63	1499.70	1506.96
25.0	1425.16	1425.77	1432.11	1440.76	1445.53	1443.19	1436.40	1434.58	1460.52	1464.12
27.5	1378.81	1385.51	1391.35	1397.63	1398.45	1395.28	1394.20	1391.64	1417.38	1417.18
30.0	1327.81	1338.23	1348.64	1350.14	1351.68	1350.32	1344.88	1345.14	1365.97	1372.75
32.5	1281.06	1287.33	1300.32	1307.31	1311.28	1308.73	1297.85	1294.59	1315.53	1325.15
35.0	1235.74	1242.31	1253.58	1263.81	1265.01	1259.63	1256.66	1246.98	1270.32	1274.19
37.5	1181.71	1197.41	1210.74	1214.91	1214.12	1211.46	1206.18	1197.83	1219.05	1227.19
40.0	1131.29	1145.32	1160.57	1166.07	1167.68	1165.42	1155.55	1143.11	1167.52	1180.93
42.5	1084.70	1095.80	1108.64	1121.65	1122.85	1117.19	1109.83	1090.76	1119.25	1124.90
45.0	1031.69	1050.05	1063.66	1073.13	1073.35	1068.65	1059.91	1046.14	1066.70	1073.83
47.5	979.32	999.71	1015.33	1023.90	1026.99	1022.86	1010.19	994.76	1012.62	1025.95
50.0	931.13	949.91	963.44	976.54	980.08	975.30	961.93	941.46	962.41	974.37
52.5	879.90	900.00	914.99	925.15	927.09	920.82	911.52	893.47	913.15	922.88
55.0	826.40	849.49	865.01	871.46	875.89	871.53	856.90	842.15	857.40	873.83
57.5	776.55	794.94	811.96	822.25	826.03	821.12	805.94	787.33	803.49	819.75
60.0	723.17	743.15	760.22	770.71	772.04	766.13	755.62	736.68	750.47	765.53
62.5	667.06	689.77	704.75	713.93	716.19	712.25	700.27	684.78	693.28	713.34
65.0	612.98	632.97	649.28	659.17	663.82	660.20	645.12	625.97	638.16	659.78
67.5	557.52	574.87	593.81	603.62	604.24	597.94	588.58	569.14	584.33	602.45
70.0	491.63	511.05	538.34	536.29	545.76	540.72	523.93	502.48	507.39	543.46
72.5	441.77	462.80	482.87	484.91	486.63	481.96	473.04	453.43	463.84	482.66
75.0	384.22	405.69	427.40	431.72	434.11	429.58	417.82	397.14	408.01	426.00
77.5	327.53	349.65	371.93	374.11	375.17	370.66	358.34	341.69	349.88	370.59

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CANDELA TABULATION - (Cont.)

80.0	275.44	295.76	316.46	319.72	323.27	316.50	303.85	286.31	294.95	313.84
82.5	227.33	246.12	260.99	270.18	270.56	264.78	253.57	237.34	243.40	261.44
85.0	184.08	202.32	216.57	223.68	226.69	221.47	207.10	193.79	196.28	213.45
87.5	148.74	164.79	178.04	187.45	188.57	182.08	171.13	156.76	156.66	171.55
90.0	126.90	142.13	154.57	161.47	162.41	156.20	144.19	130.58	126.75	140.25
92.5	115.79	129.09	140.94	147.70	148.03	142.06	131.15	118.14	115.09	125.40
95.0	106.91	119.05	128.85	135.57	135.33	129.89	120.78	109.09	107.45	114.72
97.5	99.11	109.73	119.17	124.59	124.95	119.96	111.24	101.33	100.93	106.32
100.0	93.40	102.08	110.72	115.88	116.15	111.58	103.89	94.84	95.97	99.06
102.5	87.08	95.23	102.66	107.30	107.48	103.58	96.76	89.98	91.42	93.22
105.0	81.67	88.12	95.81	99.87	99.91	96.51	89.95	84.29	87.01	87.88
107.5	76.61	81.19	87.54	91.80	92.22	88.90	83.32	79.56	82.66	81.87
110.0	71.44	74.66	80.48	83.92	84.67	81.65	76.64	74.73	77.66	77.01
112.5	66.46	67.64	73.11	76.73	77.20	74.39	69.64	69.36	72.64	71.68
115.0	61.16	61.14	65.61	69.30	69.76	66.86	63.34	64.57	67.85	66.38
117.5	56.00	54.92	58.87	61.56	62.17	60.03	57.25	59.56	62.64	61.29
120.0	51.33	48.28	51.48	54.22	54.66	52.82	51.41	54.54	58.01	56.13
122.5	46.28	43.28	44.55	47.14	47.35	45.73	46.57	49.69	52.72	51.29
125.0	41.63	38.32	37.59	39.97	40.38	39.03	41.61	44.76	47.81	46.32
127.5	37.02	34.03	31.19	33.10	33.38	32.10	36.99	40.43	43.00	41.80
130.0	32.65	29.38	25.01	26.38	26.42	27.56	32.62	35.75	38.44	37.49
132.5	28.26	25.14	20.27	19.93	20.60	23.56	28.36	31.32	34.04	32.95
135.0	23.98	21.15	16.62	13.45	13.70	19.52	24.01	27.12	29.59	28.84
137.5	19.91	17.14	12.80	7.43	9.45	15.44	19.90	22.65	25.36	24.20
140.0	15.88	13.25	9.12	3.94	6.31	11.87	15.99	18.61	21.02	20.02
142.5	11.55	9.32	5.37	3.04	3.31	8.35	12.02	14.25	16.70	16.00
145.0	7.66	5.46	3.16	3.08	2.97	4.41	7.97	10.42	12.62	11.81
147.5	3.71	3.06	3.29	3.35	3.18	3.65	3.97	6.18	8.63	7.75
150.0	3.51	3.54	3.37	3.43	3.51	3.42	3.54	3.40	4.13	4.31
152.5	3.59	3.63	3.66	3.73	3.64	3.69	3.67	3.62	3.75	3.73
155.0	3.76	3.74	3.84	3.76	3.74	3.80	3.66	3.76	3.88	4.03
157.5	3.82	4.00	3.84	3.87	3.90	4.03	3.95	3.91	4.05	4.06
160.0	4.04	4.08	3.89	3.99	3.96	4.18	4.05	4.12	4.24	4.21
162.5	4.26	4.35	4.07	4.19	4.08	4.29	4.18	4.26	4.27	4.28
165.0	4.09	4.35	4.09	4.26	4.23	4.36	4.12	4.17	4.77	4.85
167.5	4.28	4.19	4.26	4.35	4.43	4.19	4.37	4.22	4.94	4.86
170.0	4.50	4.44	4.40	4.50	4.49	4.46	4.36	4.42	5.11	5.15
172.5	4.62	4.63	4.51	4.50	4.51	4.58	4.64	4.70	5.22	5.18
175.0	4.63	4.68	4.86	4.64	4.74	4.76	4.78	4.67	5.42	5.54
177.5	4.81	4.77	4.82	4.93	4.88	4.99	4.88	4.77	5.36	5.39
180.0	5.26	5.26	5.26	5.26	5.26	5.26	5.26	5.26	5.26	5.26

Vert. Angles **Horizontal Angles**

	<u>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0.0	1688.16	1688.16	1688.16	1688.16	1688.16	1688.16	1688.16	1688.16	1688.16	1688.16
2.5	1686.48	1685.76	1685.37	1687.57	1684.88	1685.63	1684.05	1684.62	1684.65	1688.53
5.0	1678.13	1679.40	1681.41	1678.65	1684.14	1682.01	1683.61	1682.38	1683.01	1683.49
7.5	1671.23	1672.67	1673.64	1672.97	1673.87	1674.79	1674.98	1675.38	1674.36	1668.84
10.0	1653.52	1654.41	1653.65	1656.68	1653.40	1655.24	1653.78	1654.42	1653.82	1655.51
12.5	1630.12	1631.27	1632.56	1632.52	1635.33	1634.50	1636.08	1634.99	1635.43	1638.92
15.0	1608.67	1610.61	1611.46	1610.49	1613.28	1614.56	1614.30	1614.42	1614.61	1609.73
17.5	1580.08	1581.03	1579.42	1584.93	1579.28	1582.42	1581.13	1581.98	1581.45	1581.16
20.0	1542.00	1544.57	1547.57	1548.86	1549.53	1547.22	1547.94	1547.92	1549.14	1553.76
22.5	1507.83	1512.88	1517.49	1515.01	1519.68	1515.83	1515.59	1515.01	1515.99	1514.49
25.0	1470.83	1477.13	1481.59	1484.06	1479.09	1476.38	1472.94	1472.07	1473.69	1473.22

IES ROAD REPORT
PHOTOMETRIC FILENAME : VN43QF1X45U5K.IES

CANDELA TABULATION - (Cont.)

27.5	1424.96	1431.57	1437.68	1439.92	1435.63	1429.44	1425.35	1424.76	1427.86	1432.72
30.0	1378.54	1388.53	1398.00	1395.97	1395.34	1386.97	1383.48	1383.27	1386.53	1392.48
32.5	1334.84	1346.27	1354.89	1355.12	1348.65	1344.97	1336.75	1336.20	1338.59	1346.67
35.0	1288.34	1300.23	1304.96	1310.24	1301.11	1294.98	1285.17	1283.51	1287.19	1297.96
37.5	1237.06	1251.92	1261.40	1261.49	1260.69	1247.53	1239.34	1237.25	1241.65	1255.88
40.0	1193.67	1208.68	1217.71	1218.89	1214.64	1202.64	1191.93	1188.91	1193.43	1208.13
42.5	1144.06	1161.11	1166.58	1171.23	1164.41	1152.71	1138.14	1134.77	1142.38	1158.00
45.0	1091.74	1109.79	1118.23	1121.58	1119.23	1103.59	1088.58	1085.05	1093.57	1112.06
47.5	1046.33	1063.76	1074.84	1075.56	1071.93	1057.98	1040.51	1034.23	1045.57	1063.20
50.0	998.69	1018.22	1025.72	1029.69	1019.11	1008.19	987.66	982.25	992.92	1012.93
52.5	947.63	964.68	976.36	978.84	970.09	955.73	935.43	928.52	941.99	962.32
55.0	896.33	914.88	929.13	926.88	923.27	906.85	886.72	879.47	893.17	915.40
57.5	847.72	863.93	874.96	877.69	869.36	854.63	833.38	824.84	839.47	860.18
60.0	790.13	807.44	818.28	821.63	816.26	797.88	778.71	767.95	783.33	806.58
62.5	736.84	754.57	767.60	768.21	764.07	740.92	726.25	713.64	729.17	753.18
65.0	684.73	702.45	712.41	713.46	706.72	682.26	670.21	658.55	675.24	696.54
67.5	626.80	644.29	652.64	656.43	644.99	623.61	612.16	598.67	616.86	639.17
70.0	565.85	583.12	592.49	594.72	588.59	564.95	554.21	538.01	561.63	580.54
72.5	499.09	520.37	533.81	536.71	519.73	506.29	490.80	483.26	496.18	504.74
75.0	450.02	467.28	475.05	476.94	470.61	456.28	435.97	423.00	441.32	458.85
77.5	390.98	410.32	420.72	418.96	416.62	399.39	378.01	364.25	382.16	402.40
80.0	337.00	353.51	362.32	364.07	357.31	341.45	320.45	306.01	325.17	344.26
82.5	280.50	297.42	306.89	307.89	301.48	285.75	268.89	254.82	271.68	291.55
85.0	233.39	249.16	258.96	258.57	251.02	237.78	220.91	207.79	222.52	240.41
87.5	191.57	207.84	214.89	215.75	208.02	195.15	176.90	164.25	177.97	194.93
90.0	158.54	172.58	179.42	178.61	172.18	159.51	142.64	130.72	141.89	160.29
92.5	141.67	153.82	160.06	160.20	153.43	141.54	126.05	117.18	126.94	141.33
95.0	128.50	139.95	145.64	145.23	139.12	128.56	114.77	109.03	116.00	129.00
97.5	118.15	128.15	133.86	133.34	127.62	117.94	106.62	102.46	107.33	118.23
100.0	109.18	118.56	123.66	123.37	117.67	109.13	99.15	96.71	99.54	109.11
102.5	101.61	109.83	114.40	114.47	109.87	100.82	93.00	91.84	93.34	101.21
105.0	94.33	101.86	106.39	106.41	102.45	94.06	87.28	86.96	87.22	93.66
107.5	87.35	94.30	98.10	98.30	94.62	87.44	81.99	82.20	81.78	86.50
110.0	80.41	86.60	90.17	89.82	86.99	80.76	77.18	77.82	77.07	79.85
112.5	73.81	79.06	82.47	82.43	79.10	73.93	71.90	72.66	71.45	72.39
115.0	66.30	71.64	74.73	74.91	71.73	66.77	66.57	67.45	65.86	65.29
117.5	60.23	64.54	67.46	67.55	64.54	60.01	61.50	62.39	60.71	58.74
120.0	53.91	57.67	60.17	59.98	57.04	53.44	55.96	56.76	55.31	52.42
122.5	48.44	50.14	52.45	52.24	49.78	48.14	50.93	52.04	50.71	47.63
125.0	43.35	42.88	44.86	44.86	42.76	43.14	46.08	47.02	45.67	42.27
127.5	38.49	35.76	37.67	37.51	35.43	38.07	41.24	42.22	40.87	37.54
130.0	34.14	29.54	30.87	30.48	28.79	33.48	36.51	37.39	36.07	32.73
132.5	29.70	24.78	24.24	24.00	24.32	29.31	32.08	33.13	31.78	28.33
135.0	25.49	20.51	17.48	17.46	20.42	24.86	27.81	28.68	27.52	24.26
137.5	21.32	16.94	11.12	11.13	16.42	20.99	23.43	24.37	23.13	20.08
140.0	17.23	12.97	6.99	6.82	12.52	16.76	19.43	20.27	18.99	16.27
142.5	13.43	9.21	3.64	3.43	8.54	12.66	15.09	16.07	14.88	12.30
145.0	9.42	5.46	3.22	3.28	4.87	8.72	10.97	11.74	10.74	8.22
147.5	5.35	3.45	3.42	3.35	3.44	4.74	6.74	7.39	6.47	4.45
150.0	3.79	3.69	3.66	3.86	3.60	3.53	3.45	3.64	3.64	3.69
152.5	3.63	3.69	3.67	3.76	3.69	3.98	3.70	3.75	3.67	3.64
155.0	3.98	3.93	3.93	3.92	4.00	3.96	3.96	3.95	3.78	3.90
157.5	4.15	4.08	4.15	4.08	4.12	4.23	4.19	4.08	3.97	4.02
160.0	4.36	4.31	4.32	4.27	4.23	4.30	4.01	4.21	4.15	4.14
162.5	4.56	4.32	4.31	4.21	4.18	4.37	4.30	4.23	4.21	4.35
165.0	4.77	4.72	4.63	4.63	4.55	4.52	4.58	4.63	4.71	4.60

IES ROAD REPORT
PHOTOMETRIC FILENAME : VN43QF1X45U5K.IES

CANDELA TABULATION - (Cont.)

167.5	4.98	5.00	4.97	4.76	4.81	4.91	4.96	4.89	4.73	4.94
170.0	5.04	5.17	5.22	5.31	5.24	5.11	5.19	5.11	5.08	5.12
172.5	5.28	5.15	5.23	5.18	5.24	5.34	5.20	5.22	5.31	5.06
175.0	5.35	5.35	5.41	5.37	5.31	5.45	5.33	5.33	5.15	5.28
177.5	5.31	5.37	5.40	5.37	5.26	5.58	5.44	5.32	5.44	5.38
180.0	5.26	5.26	5.26	5.26	5.26	5.26	5.26	5.26	5.26	5.26

Vert. Horizontal Angles
Angles

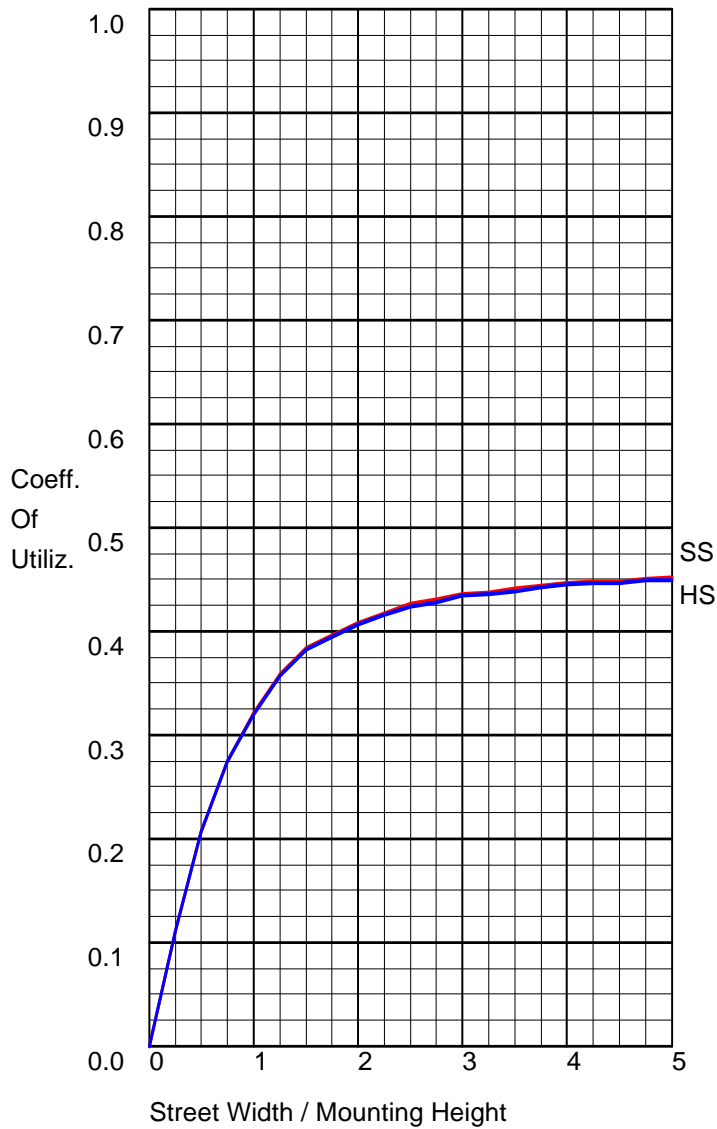
	300	310	320	330	340	350	360
0.0	1688.16	1688.16	1688.16	1688.16	1688.16	1688.16	1688.16
2.5	1690.54	1683.84	1685.00	1689.17	1686.03	1688.21	1681.39
5.0	1681.07	1683.15	1679.96	1678.32	1683.09	1679.53	1674.10
7.5	1669.27	1674.03	1673.93	1669.17	1666.84	1664.92	1663.91
10.0	1658.43	1651.81	1655.27	1658.14	1650.76	1652.85	1639.84
12.5	1636.08	1633.99	1631.95	1631.68	1635.40	1633.78	1622.85
15.0	1607.81	1612.35	1611.85	1607.56	1607.49	1603.52	1589.72
17.5	1584.19	1580.35	1583.04	1583.70	1576.46	1576.69	1563.99
20.0	1554.02	1550.94	1548.38	1548.71	1548.96	1546.64	1525.30
22.5	1515.76	1521.04	1518.98	1511.38	1512.06	1503.60	1486.64
25.0	1480.26	1481.69	1482.11	1477.88	1467.66	1464.71	1446.00
27.5	1442.13	1441.14	1438.89	1437.61	1429.49	1424.81	1396.66
30.0	1397.72	1403.42	1400.88	1392.20	1385.95	1377.78	1353.37
32.5	1353.58	1359.59	1361.50	1352.66	1337.56	1330.80	1307.04
35.0	1312.47	1311.73	1312.72	1309.25	1293.50	1287.35	1253.30
37.5	1264.59	1270.20	1267.20	1259.62	1250.81	1236.90	1206.19
40.0	1217.30	1225.99	1225.95	1215.24	1201.52	1184.62	1160.77
42.5	1173.31	1177.23	1176.65	1171.53	1153.26	1138.15	1106.66
45.0	1125.37	1131.12	1129.84	1121.98	1108.87	1088.97	1053.31
47.5	1075.72	1086.78	1083.75	1072.20	1058.89	1035.45	1004.61
50.0	1028.34	1036.59	1036.92	1026.47	1006.15	985.43	952.33
52.5	981.17	984.92	984.26	976.23	956.09	935.29	895.92
55.0	926.94	937.19	935.31	924.10	906.44	882.15	844.51
57.5	876.42	884.09	883.99	873.63	851.60	829.61	791.62
60.0	824.83	828.70	827.06	818.62	798.87	776.65	735.54
62.5	767.55	776.71	773.82	760.22	745.47	718.97	678.16
65.0	712.18	720.66	718.43	706.46	687.22	662.11	622.33
67.5	657.74	659.88	657.39	649.93	630.47	605.86	562.92
70.0	596.38	602.00	598.83	587.81	571.79	546.55	496.51
72.5	531.16	543.44	526.76	527.19	501.79	482.64	445.86
75.0	476.52	478.92	477.29	470.19	451.28	427.82	384.32
77.5	415.75	422.65	421.04	410.24	391.27	367.91	327.10
80.0	357.82	364.64	362.93	352.08	332.57	310.04	273.09
82.5	303.60	308.57	305.93	295.40	279.57	257.53	220.06
85.0	252.64	259.53	257.59	246.24	229.58	208.47	177.66
87.5	209.13	214.26	212.64	203.40	186.59	168.12	140.51
90.0	173.41	178.04	176.62	168.89	154.17	137.62	119.34
92.5	153.94	159.97	158.78	151.42	137.79	122.92	110.09
95.0	139.94	145.14	144.63	137.62	125.73	112.69	102.74
97.5	127.75	132.95	132.33	125.82	115.44	103.70	96.78
100.0	117.89	122.01	121.89	116.64	106.59	97.13	91.91
102.5	108.94	112.56	112.14	107.43	99.22	91.04	87.05
105.0	100.20	104.42	104.04	98.93	91.71	85.05	82.49
107.5	92.87	96.16	95.83	91.75	84.39	79.97	77.57
110.0	84.96	88.12	87.50	83.59	78.27	74.62	72.91
112.5	77.42	80.19	79.58	76.09	70.77	69.24	67.73

IES ROAD REPORT
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CANDELA TABULATION - (Cont.)

115.0	69.86	72.29	71.76	68.59	63.69	64.13	62.72
117.5	62.03	64.71	64.28	61.03	56.85	58.92	57.91
120.0	55.06	56.85	56.78	54.30	50.89	53.90	52.58
122.5	47.47	49.40	49.07	46.84	45.95	48.70	47.81
125.0	40.48	42.14	41.79	39.73	40.70	43.90	42.91
127.5	33.46	34.80	34.81	32.61	36.14	38.91	38.09
130.0	27.57	27.93	27.75	26.45	31.43	34.41	33.62
132.5	23.60	21.25	20.98	22.27	27.08	30.05	29.28
135.0	19.50	14.39	14.46	18.33	23.01	25.63	24.55
137.5	15.56	9.40	8.51	14.25	18.66	21.50	20.34
140.0	11.80	5.93	4.88	10.42	14.62	16.98	16.25
142.5	8.11	3.19	2.88	6.68	10.44	12.96	12.14
145.0	4.13	3.15	3.17	3.47	6.59	9.06	7.94
147.5	3.28	3.31	3.42	3.36	3.39	4.34	3.73
150.0	3.58	3.58	3.65	3.43	3.67	3.56	3.54
152.5	3.70	3.62	3.78	3.67	3.71	3.77	3.63
155.0	3.90	3.82	3.82	3.90	3.97	3.92	3.75
157.5	4.06	4.01	4.07	4.00	4.09	4.03	3.88
160.0	4.13	4.15	4.16	4.12	4.30	4.03	4.15
162.5	4.36	4.47	4.25	4.26	4.39	4.35	4.24
165.0	4.57	4.63	4.61	4.60	4.57	4.70	4.22
167.5	5.05	4.80	4.94	4.71	4.78	4.89	4.24
170.0	5.09	5.03	5.01	5.25	4.97	5.08	4.53
172.5	5.05	5.19	5.30	5.29	5.12	5.09	4.47
175.0	5.33	5.32	5.44	5.21	5.35	5.39	4.74
177.5	5.40	5.56	5.56	5.30	5.44	5.23	4.94
180.0	5.26	5.26	5.26	5.26	5.26	5.26	5.26

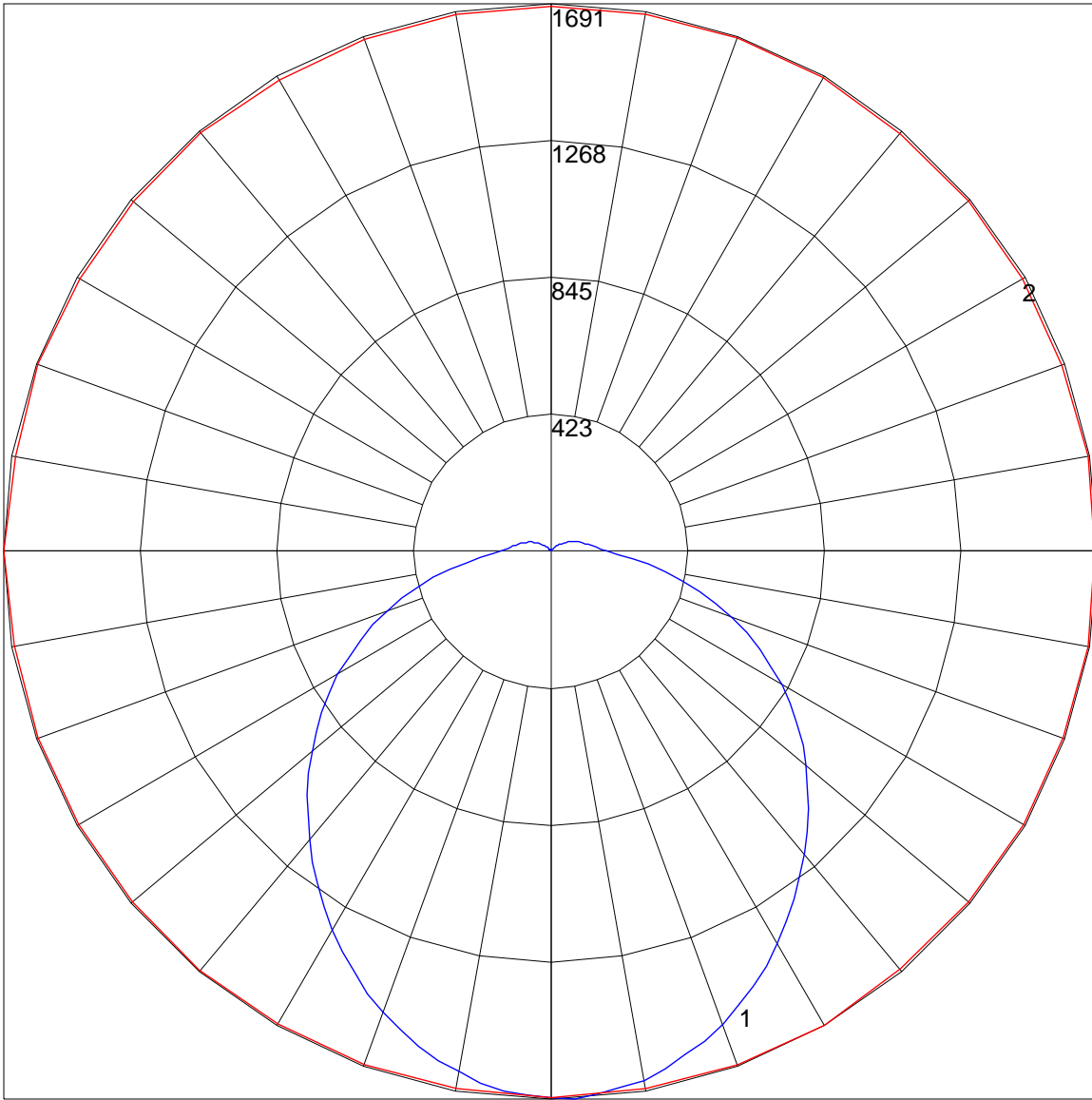
COEFFICIENTS OF UTILIZATION



FLUX DISTRIBUTION

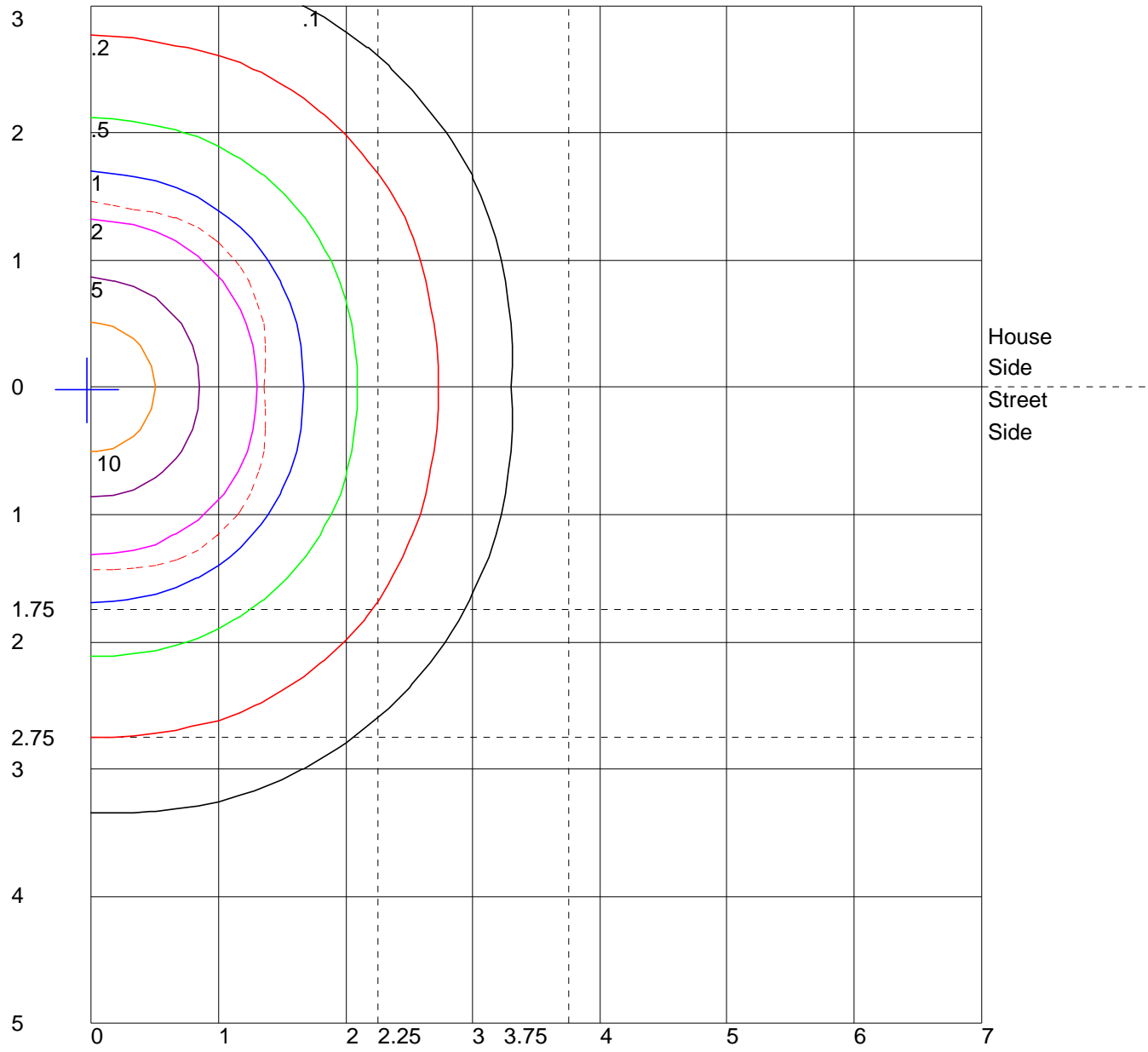
	Lumens	Percent Of Luminaire
Downward Street Side	2534.9	46.7
Downward House Side	2527.2	46.6
Downward Total	5062.1	93.3
Upward Street Side	179.9	3.3
Upward House Side	184.9	3.4
Upward Total	364.8	6.7
Total Flux	5426.9	100.0

POLAR GRAPH



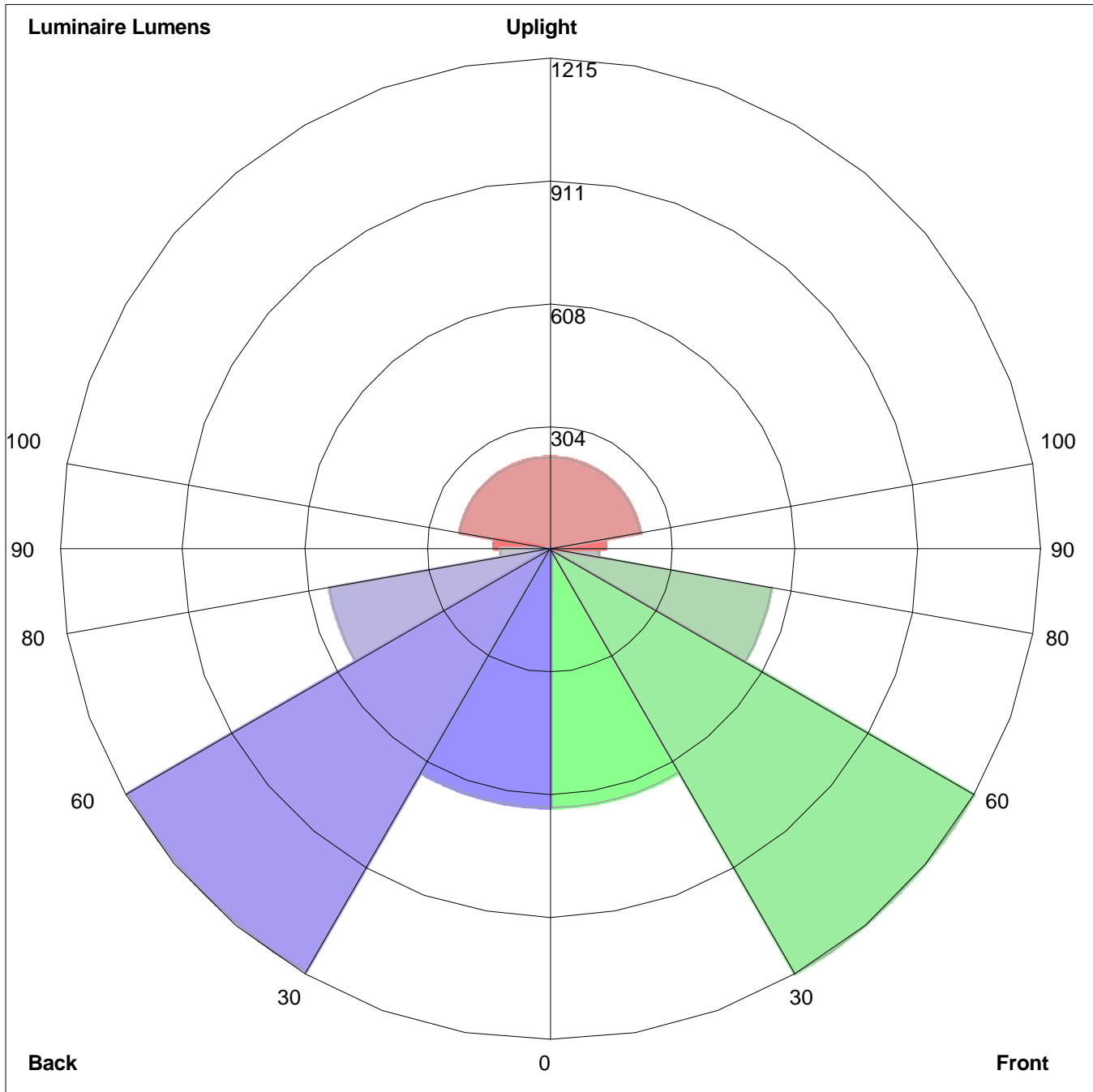
Maximum Candela = 1690.54 Located At Horizontal Angle = 300, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (300 - 120) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



Distance In Units Of Mounting Height
 Values Based On 10 Foot Mounting Height
 1/2 Maximum Candela Trace Shown As Dashed Curve
 (+) = Maximum Candela Point

LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:
 Front: Low=640.1, Medium=1215.3, High=557.3, Very High=122.2
 Back: Low=639.7, Medium=1208.3, High=555.8, Very High=123.5
 Uplight: Low=137.7, High=227.0

BUG Rating : B2-U3-G2