

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P145014

Luminaire Tested: **VPL-F02-LED-E1-GL2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145014
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33701)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VPL-F02-LED-E1-GL2-7030
Description: VALET LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ GLARE CONTROL
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4415.4 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

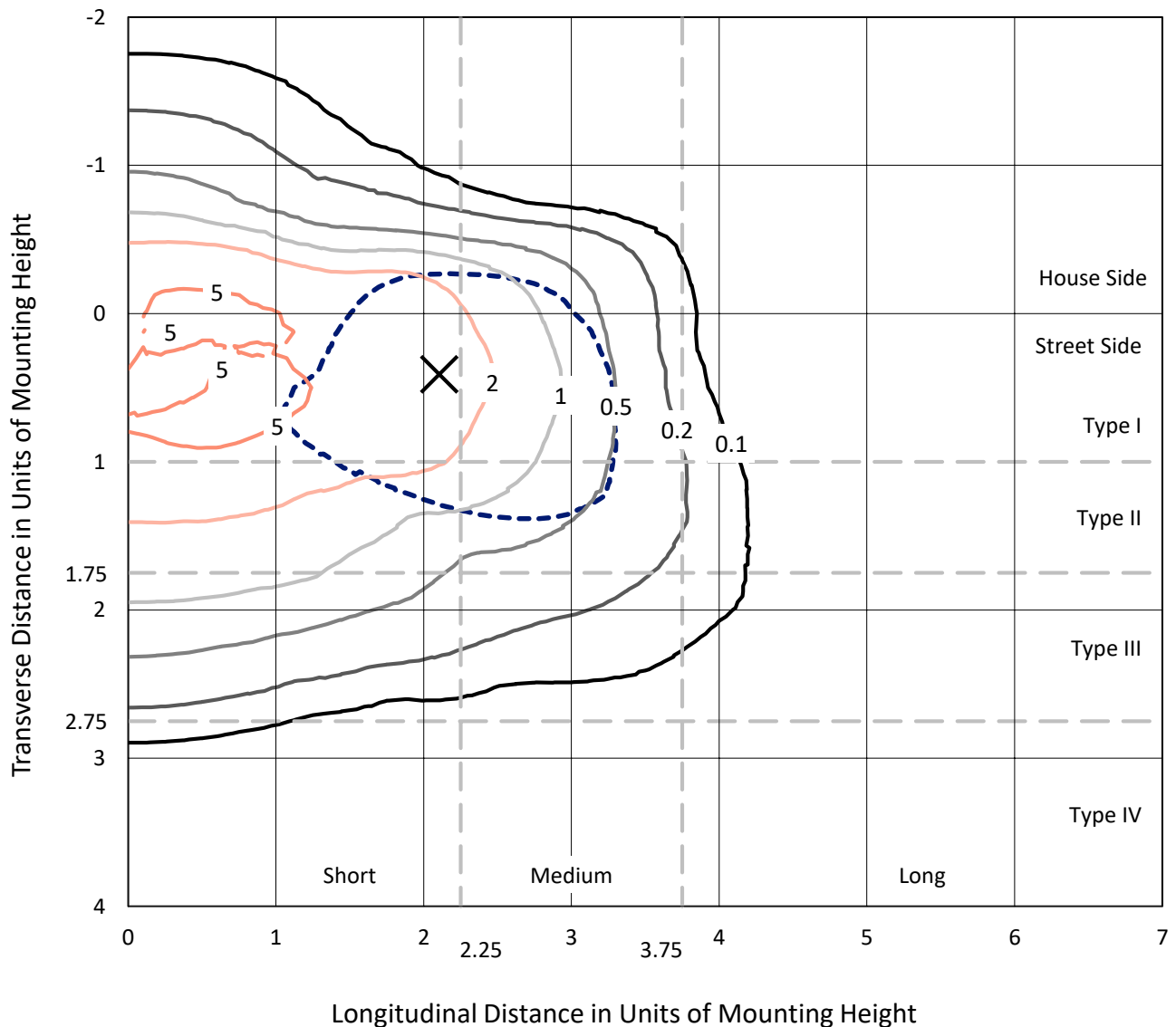
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P145014
 CATALOG NUMBER: VPL-F02-LED-E1-GL2-7030

Iso-Footcandle Lines of Horizontal Illumination

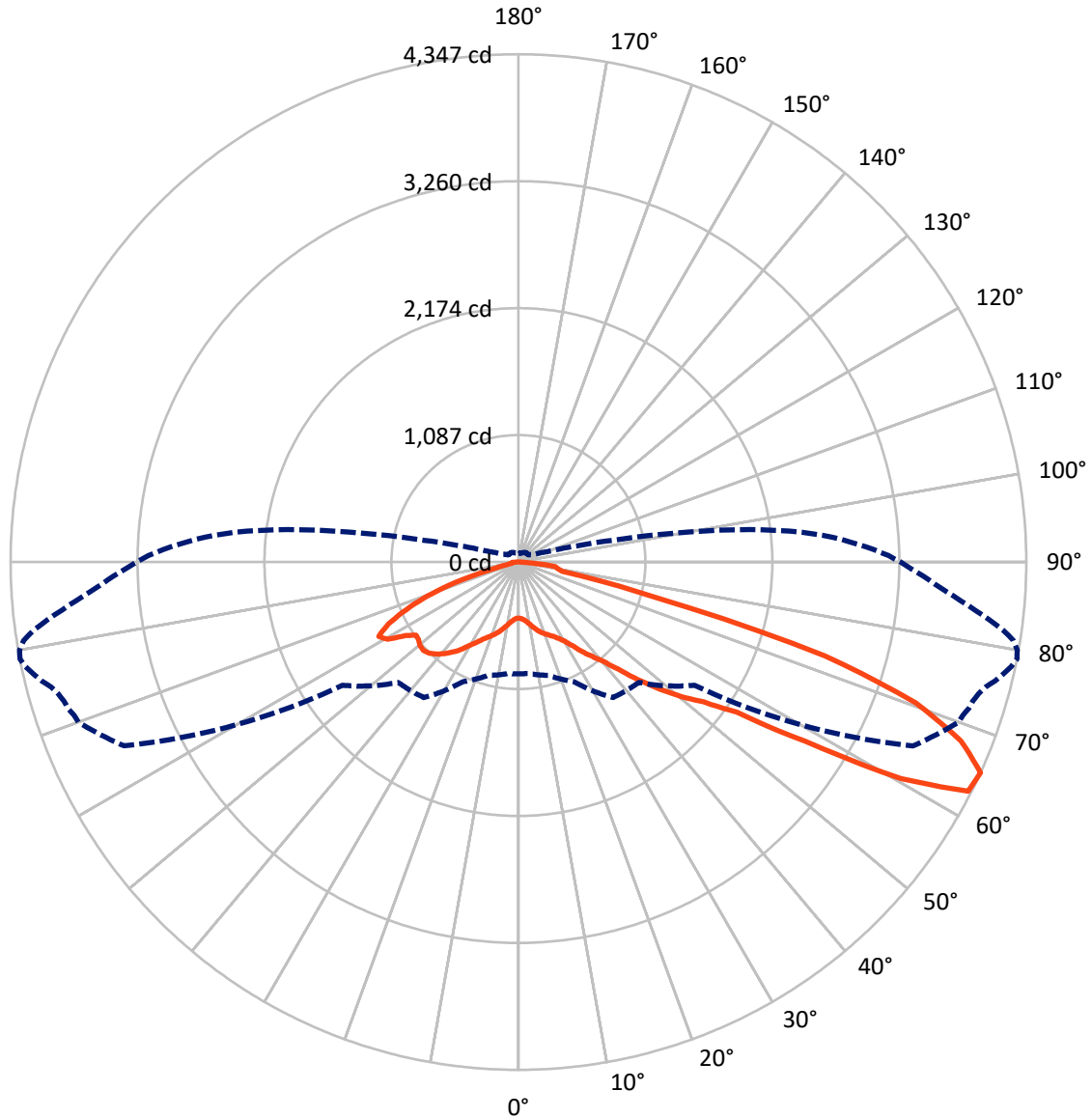
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P145014
CATALOG NUMBER: VPL-F02-LED-E1-GL2-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P145014

CATALOG NUMBER: VPL-F02-LED-E1-GL2-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1002.2	0.0	1002.2
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	3413.1	0.0	3413.1
	% Fixture	77.3	0.0	77.3
Total	Lumens	4415.4	0.0	4415.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.6	1.1
10°-20°	155.0	3.5
20°-30°	267.3	6.1
30°-40°	435.9	9.9
40°-50°	727.7	16.5
50°-60°	984.0	22.3
60°-70°	1222.4	27.7
70°-80°	489.5	11.1
80°-90°	86.0	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4415.4	100.0
0°-180°	4415.4	100.0



REPORT NUMBER: P145014

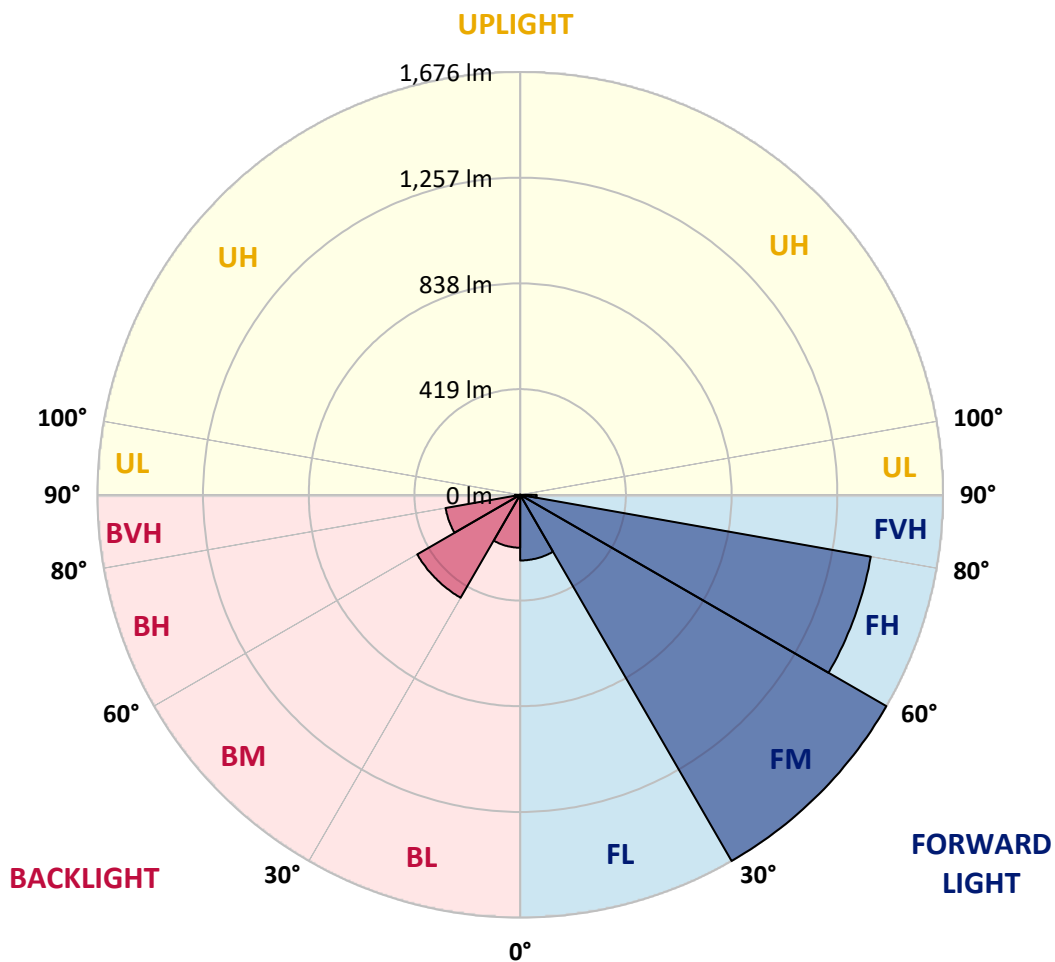
CATALOG NUMBER: VPL-F02-LED-E1-GL2-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	260.4	5.9			
FM	(30°-60°)	1676.1	38.0			
FH	(60°-80°)	1411.4	32.0			G1/1800
FVH	(80°-90°)	65.2	1.5			G1/100
BL	(0°-30°)	209.6	4.7	B1/500		
BM	(30°-60°)	471.4	10.7	B1/1000		
BH	(60°-80°)	300.4	6.8	B1/500		G1/500
BVH	(80°-90°)	20.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P145014

CATALOG NUMBER: VPL-F02-LED-E1-GL2-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	479.8	479.8	479.8	479.8	479.8	479.8	479.8	479.8	479.8	479.8	479.8
2.5°	483.5	483.2	484.7	485.9	485.9	486.5	486.2	484.4	484.7	485.3	484.7
5°	488.9	487.7	489.2	491.0	492.2	493.7	495.2	495.5	496.7	496.7	496.4
7.5°	500.7	499.7	501.9	502.5	505.2	507.6	510.6	512.7	513.9	514.5	515.4
10°	520.9	520.3	520.9	522.1	523.3	526.0	531.1	535.6	538.4	538.4	539.6
12.5°	545.3	542.9	543.5	541.1	541.7	547.4	553.4	561.0	565.5	566.1	566.7
15°	564.3	563.1	562.2	558.9	561.3	568.8	578.2	589.0	592.9	596.3	596.0
17.5°	582.1	580.6	578.5	573.9	576.4	588.4	602.6	614.7	621.3	621.9	622.5
20°	603.2	601.4	597.5	588.1	587.5	604.4	623.4	636.4	642.4	645.1	646.0
22.5°	630.0	627.6	620.4	602.3	597.5	617.4	640.0	656.0	662.3	665.0	666.5
25°	664.4	659.6	648.1	619.8	609.8	630.6	657.8	677.1	685.8	688.5	690.4
27.5°	695.5	691.9	678.0	644.5	627.3	648.4	679.5	704.2	716.3	719.6	722.3
30°	731.7	726.5	715.4	679.8	656.9	675.6	715.1	746.5	761.2	761.5	767.6
32.5°	816.7	813.4	803.2	763.9	725.3	726.5	763.3	806.5	821.2	823.7	829.1
35°	942.8	941.6	941.3	919.6	890.9	861.4	864.1	897.0	906.9	910.8	912.6
37.5°	1025.7	1036.3	1061.9	1077.6	1070.4	1076.7	1043.5	1003.4	997.7	993.5	995.3
40°	1097.2	1106.6	1158.4	1230.8	1274.9	1305.9	1276.7	1153.6	1107.8	1094.5	1089.4
42.5°	1139.4	1150.0	1224.2	1340.0	1452.2	1525.8	1533.6	1362.6	1246.2	1244.7	1225.4
45°	1162.4	1172.9	1261.6	1417.5	1576.1	1708.9	1777.6	1619.9	1448.9	1436.2	1409.4
47.5°	1157.8	1167.8	1260.1	1446.2	1649.4	1830.4	1967.9	1879.9	1682.6	1652.2	1615.1
50°	1102.6	1109.9	1206.7	1399.4	1629.8	1881.1	2098.2	2118.4	1947.1	1905.8	1850.3
52.5°	1045.6	1058.6	1138.8	1316.5	1540.9	1849.7	2176.0	2335.6	2194.1	2165.8	2094.6
55°	1014.9	1025.1	1090.6	1242.3	1447.1	1742.6	2208.3	2540.4	2494.2	2482.7	2432.4
57.5°	1013.7	1023.6	1075.8	1197.3	1370.8	1631.0	2217.6	2856.7	2992.1	2995.2	2980.7
60°	1063.1	1073.4	1117.1	1219.1	1347.2	1535.4	2184.2	3305.5	3604.7	3631.2	3675.6
62.5°	1070.1	1074.9	1127.7	1265.2	1432.9	1464.0	2046.3	3679.2	4025.7	4050.2	4074.6
65°	957.3	957.0	1003.7	1130.4	1415.1	1456.7	1839.1	3725.0	4008.8	4023.6	4054.1
67.5°	713.9	707.8	734.4	850.2	1122.8	1458.5	1593.6	3379.1	3696.4	3724.4	3734.7
70°	367.9	377.3	395.4	466.3	713.0	1174.1	1369.0	2851.0	3244.9	3255.4	3291.9
72.5°	151.1	147.2	159.5	196.0	356.8	776.0	1132.5	2249.9	2680.0	2672.8	2679.4
75°	84.1	85.4	89.0	102.2	173.4	389.7	973.0	1592.7	1822.6	1697.7	1660.0
77.5°	67.6	68.2	68.5	70.9	94.7	207.8	746.8	1049.0	916.6	851.1	826.1
80°	49.5	52.8	56.4	57.0	65.1	117.9	409.6	883.1	773.6	719.3	674.7
82.5°	39.8	41.3	49.2	50.4	51.9	70.3	185.5	829.4	770.6	715.1	653.6
85°	23.8	26.5	40.1	40.4	41.0	42.8	102.5	337.8	420.1	371.3	339.9
87.5°	8.4	10.9	19.9	16.6	21.1	17.5	44.9	113.1	139.3	132.4	117.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P145014

CATALOG NUMBER: VPL-F02-LED-E1-GL2-7030

CANDELA DISTRIBUTION (continued):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	479.8	479.8	479.8	479.8	479.8	479.8	479.8	479.8	479.8	479.8	479.8
2.5°	484.4	484.4	485.0	484.7	484.7	484.7	484.7	484.1	484.1	483.2	483.8
5°	496.4	496.1	496.4	496.7	496.4	497.0	496.7	496.4	496.7	496.4	496.7
7.5°	515.7	514.2	516.3	515.1	514.8	516.6	515.7	516.6	516.9	516.6	516.3
10°	540.2	541.1	541.1	541.1	540.5	542.3	542.6	543.2	543.5	544.7	544.7
12.5°	568.2	568.5	569.7	569.4	570.0	572.1	573.6	573.9	574.2	575.1	573.9
15°	598.4	599.0	599.0	601.7	600.8	603.8	604.7	604.7	605.0	608.6	608.9
17.5°	625.2	625.2	627.6	627.6	630.0	630.6	633.4	633.7	634.9	638.2	638.5
20°	647.8	649.0	650.5	652.4	653.3	655.1	656.9	658.7	660.2	662.9	663.2
22.5°	669.2	670.5	672.9	674.1	676.2	677.4	678.9	681.0	683.4	687.0	687.9
25°	694.0	695.2	697.9	699.7	702.1	703.9	706.6	709.4	710.9	714.5	717.2
27.5°	725.3	729.0	732.6	733.5	735.3	739.5	743.1	746.8	750.1	751.9	755.2
30°	771.2	771.2	778.7	778.7	782.0	786.0	788.4	792.3	798.3	800.1	804.4
32.5°	832.7	834.2	836.9	845.1	851.1	852.9	854.7	860.5	864.1	868.6	873.7
35°	920.5	922.0	923.5	931.3	938.3	940.1	941.9	945.5	951.5	959.4	957.0
37.5°	999.2	1000.1	1004.9	1013.7	1017.6	1022.4	1023.9	1030.6	1033.9	1041.1	1041.4
40°	1093.9	1091.8	1094.5	1104.4	1110.5	1110.2	1115.0	1127.1	1129.5	1132.8	1141.2
42.5°	1226.0	1218.2	1226.6	1229.9	1239.0	1244.7	1254.3	1262.5	1268.2	1280.9	1286.9
45°	1396.7	1388.6	1395.5	1397.0	1415.7	1421.4	1435.9	1446.8	1459.1	1473.6	1477.8
47.5°	1591.2	1576.1	1567.7	1577.1	1599.4	1608.7	1622.9	1633.1	1646.1	1653.7	1651.2
50°	1816.5	1780.3	1763.4	1758.6	1774.6	1787.9	1809.9	1814.7	1820.7	1820.4	1820.7
52.5°	2067.8	2030.1	1994.8	1970.3	1967.9	1985.7	1991.1	1992.4	1990.5	1977.0	1968.5
55°	2395.9	2393.2	2356.1	2305.4	2302.1	2300.0	2268.3	2264.4	2257.2	2236.3	2207.7
57.5°	2991.2	3021.4	2997.0	2995.8	2969.2	2951.7	2893.5	2864.6	2834.1	2777.7	2732.8
60°	3679.5	3723.2	3747.3	3757.9	3809.8	3809.8	3762.1	3721.1	3671.6	3585.7	3501.8
62.5°	4093.9	4132.2	4167.8	4223.6	4289.6	4318.9	4321.3	4284.8	4222.4	4124.3	4005.8
65°	4067.6	4096.0	4139.1	4204.9	4259.5	4311.9	4347.2	4336.1	4288.4	4190.4	4061.3
67.5°	3770.6	3811.9	3867.7	3928.3	3979.0	4028.4	4085.4	4089.7	4077.0	3983.8	3867.1
70°	3312.1	3365.2	3400.5	3476.8	3499.7	3549.8	3607.1	3634.6	3614.0	3542.3	3473.8
72.5°	2690.9	2732.8	2738.8	2705.6	2717.1	2729.5	2743.3	2679.1	2654.4	2558.5	2514.4
75°	1631.6	1576.4	1530.0	1483.9	1346.0	1297.2	1222.1	1074.0	1057.1	955.5	884.9
77.5°	776.0	752.8	710.9	640.6	547.1	457.5	379.7	308.5	282.0	232.2	197.8
80°	649.6	621.9	584.2	532.0	466.6	401.4	339.9	287.1	234.0	190.6	152.3
82.5°	596.0	547.7	494.6	449.7	403.5	359.2	317.9	270.2	242.2	195.4	159.5
85°	301.3	263.9	213.8	180.1	152.0	123.7	107.1	91.4	81.4	64.8	56.4
87.5°	101.0	82.6	61.5	52.2	47.0	40.4	37.1	35.3	34.4	30.5	27.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P145014

CATALOG NUMBER: VPL-F02-LED-E1-GL2-7030

CANDELA DISTRIBUTION (continued):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	479.8	479.8	479.8	479.8	479.8	479.8	479.8	479.8	479.8	479.8	479.8
2.5°	483.8	483.8	483.8	483.8	483.5	483.5	483.5	483.5	483.5	483.5	483.8
5°	496.1	496.1	496.4	497.3	495.5	496.1	496.7	495.8	496.7	495.8	497.0
7.5°	516.0	516.9	516.3	517.5	516.9	518.7	517.5	516.6	517.2	517.2	517.5
10°	544.1	545.3	544.4	545.0	545.0	546.2	544.7	545.0	545.3	544.7	545.0
12.5°	575.1	575.7	575.4	577.3	576.4	577.3	576.4	577.6	578.2	578.8	578.8
15°	608.9	609.5	611.3	611.0	612.8	612.2	612.5	611.0	614.1	612.2	612.8
17.5°	640.0	639.7	642.1	643.0	643.3	643.6	644.5	643.3	643.6	644.5	643.9
20°	664.1	666.2	666.8	669.2	671.1	671.7	671.4	672.3	673.5	672.3	672.3
22.5°	689.8	692.8	693.7	695.2	697.0	697.3	699.1	700.0	700.6	700.3	700.6
25°	720.5	722.6	724.7	727.8	729.9	730.2	731.7	732.9	733.2	732.9	734.7
27.5°	758.2	760.9	763.6	767.3	769.7	770.3	773.6	773.6	775.4	776.3	776.9
30°	806.8	807.7	814.6	818.2	817.3	821.6	826.1	825.8	827.9	828.5	830.0
32.5°	877.3	877.3	883.4	887.9	892.7	891.2	898.2	897.0	900.3	902.1	901.2
35°	963.0	966.0	970.5	973.3	978.4	981.1	985.9	988.6	990.1	989.8	986.5
37.5°	1051.4	1056.2	1058.0	1064.6	1069.8	1074.3	1074.9	1071.9	1073.1	1067.1	1065.2
40°	1152.4	1159.3	1163.6	1173.5	1172.9	1178.6	1179.2	1170.5	1169.0	1161.1	1153.0
42.5°	1293.6	1303.2	1306.5	1314.1	1308.0	1310.7	1295.7	1292.0	1280.0	1267.3	1248.9
45°	1483.9	1479.0	1481.1	1479.0	1463.0	1451.3	1438.9	1421.1	1403.3	1378.9	1352.7
47.5°	1651.2	1653.7	1638.0	1628.0	1602.1	1585.5	1562.9	1531.8	1510.1	1477.2	1442.5
50°	1813.8	1787.0	1764.9	1742.0	1719.1	1688.6	1654.6	1627.1	1595.5	1554.4	1511.9
52.5°	1945.9	1911.2	1884.7	1852.1	1821.0	1787.3	1751.7	1711.9	1670.2	1629.2	1576.8
55°	2179.9	2129.6	2095.5	2038.5	2003.2	1955.9	1928.1	1876.5	1818.6	1764.3	1708.5
57.5°	2682.1	2606.7	2567.8	2535.5	2480.6	2402.8	2353.4	2268.6	2186.0	2128.1	2035.2
60°	3438.5	3361.9	3297.4	3221.1	3136.9	3031.4	2984.3	2884.5	2766.3	2670.6	2547.9
62.5°	3909.9	3804.0	3699.4	3592.3	3507.9	3425.2	3327.8	3227.1	3110.1	2980.1	2845.9
65°	3928.9	3801.9	3676.8	3567.6	3468.7	3361.3	3269.9	3167.7	3044.6	2910.7	2771.4
67.5°	3731.7	3589.6	3455.4	3335.7	3222.6	3123.0	3027.4	2931.2	2799.4	2687.2	2544.6
70°	3338.7	3209.0	3087.5	2951.1	2864.6	2752.7	2659.5	2558.1	2463.7	2358.8	2225.2
72.5°	2452.3	2354.6	2215.8	2157.9	2111.5	1993.0	1923.6	1915.1	1854.8	1729.1	1629.2
75°	912.0	776.3	735.3	759.7	719.0	732.6	727.5	698.5	699.7	678.3	653.0
77.5°	178.5	165.9	155.9	158.6	147.5	142.7	152.9	149.9	144.5	146.0	143.6
80°	121.5	102.8	93.2	89.6	85.1	82.9	82.3	81.4	79.6	78.7	76.0
82.5°	119.7	89.0	70.3	60.3	56.7	54.9	53.4	53.1	52.5	52.2	53.1
85°	47.7	38.6	35.3	32.3	31.4	30.5	30.5	30.2	29.9	30.5	31.7
87.5°	23.2	19.6	17.8	16.3	15.7	15.4	15.4	15.7	16.0	17.2	19.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P145014

CATALOG NUMBER: VPL-F02-LED-E1-GL2-7030

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	479.8	479.8	479.8	479.8	479.8	479.8	479.8	479.8	479.8	479.8	479.8
2.5°	483.2	483.5	482.9	483.2	482.9	482.3	482.0	482.9	482.6	482.3	482.3
5°	495.5	496.7	496.1	495.5	495.5	495.2	495.2	495.2	494.9	495.2	494.3
7.5°	516.9	516.6	516.6	516.0	515.4	516.0	515.7	514.8	515.1	514.5	513.6
10°	544.4	543.5	545.0	545.0	543.8	543.5	542.9	542.0	542.0	541.1	541.1
12.5°	577.0	576.1	578.2	576.7	574.8	574.5	572.7	572.1	573.0	572.7	572.1
15°	610.1	610.4	611.3	611.0	608.9	608.9	606.5	606.8	605.0	604.4	602.9
17.5°	642.4	642.7	641.8	641.8	640.3	639.4	636.7	637.0	635.8	633.4	631.5
20°	671.4	671.1	668.9	670.8	667.7	667.1	664.7	662.3	662.9	660.5	656.9
22.5°	699.7	699.1	698.5	697.6	696.1	695.5	692.8	692.5	689.5	685.8	682.8
25°	732.6	732.3	731.4	731.7	728.7	729.0	724.1	722.9	721.1	717.2	714.8
27.5°	775.1	775.1	772.7	771.8	770.9	769.7	765.5	762.4	757.9	753.4	748.6
30°	827.3	826.7	826.1	823.7	820.3	818.5	811.0	806.2	800.1	791.7	784.5
32.5°	901.8	896.6	892.4	887.0	881.6	875.8	864.1	855.9	846.3	832.7	821.2
35°	984.7	976.0	971.4	960.3	950.0	938.6	924.4	907.8	894.5	876.7	858.0
37.5°	1053.2	1046.5	1034.5	1021.8	1007.3	985.6	969.6	951.8	928.6	909.0	886.4
40°	1137.6	1122.5	1105.4	1084.2	1064.3	1039.9	1017.9	992.3	963.9	935.6	906.0
42.5°	1226.3	1203.1	1174.7	1150.3	1120.1	1088.2	1059.5	1024.8	988.6	950.6	911.1
45°	1316.8	1288.1	1250.4	1215.7	1173.8	1133.7	1092.7	1045.3	995.9	945.2	895.4
47.5°	1399.7	1357.8	1315.0	1268.2	1220.0	1168.4	1110.2	1048.1	982.9	916.3	854.1
50°	1464.9	1412.4	1358.4	1304.4	1245.3	1178.3	1105.1	1023.9	943.7	863.8	792.3
52.5°	1522.5	1463.7	1397.3	1330.3	1257.4	1175.0	1083.3	987.7	890.0	801.6	721.4
55°	1634.1	1560.2	1472.7	1386.4	1294.2	1190.4	1076.1	959.1	846.6	750.4	665.0
57.5°	1937.2	1837.3	1701.9	1582.2	1465.2	1314.1	1153.0	1008.8	865.6	751.9	656.9
60°	2414.6	2252.0	2097.0	1914.5	1725.1	1517.9	1302.0	1107.8	933.1	790.5	676.2
62.5°	2691.5	2519.8	2320.5	2099.4	1853.9	1601.5	1353.6	1126.8	935.3	779.9	653.3
65°	2616.7	2444.1	2224.9	1998.7	1737.5	1479.3	1233.2	1015.5	829.7	686.1	564.9
67.5°	2394.7	2214.3	2008.3	1757.4	1507.7	1268.5	1044.1	839.0	674.7	540.8	433.7
70°	2071.7	1911.2	1712.8	1481.4	1239.3	1024.2	835.1	650.2	511.2	388.5	304.0
72.5°	1537.5	1395.5	1271.5	1078.2	900.9	732.3	578.2	452.4	332.7	251.5	193.6
75°	645.4	597.5	577.3	506.4	440.3	361.0	271.7	216.5	175.5	149.3	118.5
77.5°	156.5	156.5	147.2	137.8	126.7	114.6	101.3	90.5	85.1	80.2	76.3
80°	76.0	75.4	73.0	72.7	70.6	67.9	66.4	64.2	63.3	62.1	61.5
82.5°	53.4	53.1	52.2	53.4	53.1	54.3	54.9	55.2	55.2	55.5	55.8
85°	33.8	35.0	37.4	40.4	43.1	46.4	49.5	51.9	53.7	55.2	56.4
87.5°	21.4	24.4	26.2	30.8	35.3	40.4	46.1	48.6	50.7	51.0	49.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P145014

CATALOG NUMBER: VPL-F02-LED-E1-GL2-7030

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	479.8	479.8	479.8	479.8	479.8	479.8	479.8	479.8	479.8	479.8	479.8
2.5°	482.3	482.0	482.6	482.0	482.0	481.7	480.7	479.8	478.9	478.6	477.7
5°	494.0	494.0	494.6	493.4	493.7	492.5	489.8	486.8	484.1	481.7	478.9
7.5°	513.9	513.0	513.3	513.0	512.4	510.0	504.0	496.4	489.2	481.7	475.6
10°	540.5	538.7	538.7	538.0	537.1	533.8	521.2	506.1	491.0	477.4	467.5
12.5°	570.0	570.3	567.9	566.4	564.9	558.0	539.0	514.8	491.0	469.3	453.3
15°	600.8	600.5	597.8	596.9	593.5	583.3	554.6	519.4	485.3	453.3	429.5
17.5°	628.5	627.3	624.6	622.8	619.2	605.6	565.2	517.2	470.2	428.3	398.4
20°	653.9	652.4	649.9	646.6	643.0	623.4	569.1	506.4	446.4	398.4	368.3
22.5°	680.1	676.8	674.1	669.5	665.6	639.4	566.4	487.1	419.2	365.2	333.0
25°	709.4	705.4	699.7	694.3	688.2	652.4	558.9	463.0	386.6	329.3	296.8
27.5°	741.0	735.3	727.8	720.8	711.2	662.0	545.9	436.1	351.1	293.8	260.0
30°	774.5	763.9	754.6	744.0	731.7	666.5	527.2	402.9	311.9	257.6	223.8
32.5°	807.1	792.9	779.0	763.6	746.8	664.7	500.7	363.7	272.6	223.8	195.4
35°	840.3	819.7	800.4	779.6	759.1	655.7	464.2	320.3	235.5	195.7	175.2
37.5°	862.9	837.2	811.6	786.6	761.8	636.1	415.6	271.7	202.1	175.5	160.8
40°	874.3	843.0	811.6	780.5	750.1	603.5	358.9	227.4	178.2	160.4	149.9
42.5°	871.0	832.1	793.2	756.4	719.0	551.6	297.4	190.9	161.7	148.7	139.3
45°	843.6	797.1	752.8	713.9	667.1	485.0	244.3	168.3	149.0	139.0	130.3
47.5°	792.0	740.1	685.8	641.8	598.1	407.8	203.3	154.1	137.8	129.7	120.9
50°	726.2	666.2	611.9	564.3	521.5	335.7	175.2	142.1	128.8	121.8	112.5
52.5°	653.9	589.3	539.9	489.8	447.9	280.2	155.6	128.8	120.0	112.8	105.3
55°	593.8	534.1	483.8	433.4	391.2	245.2	139.3	118.5	111.9	104.4	98.3
57.5°	577.9	509.7	454.8	407.2	363.7	223.8	127.6	109.2	104.7	98.9	92.3
60°	584.5	509.4	447.9	395.7	350.2	206.6	118.8	102.8	99.2	94.1	87.2
62.5°	560.7	481.3	419.2	363.7	320.6	184.9	112.5	99.8	97.4	90.5	82.6
65°	477.7	405.0	345.3	297.4	260.3	155.6	107.4	102.5	100.1	88.1	79.6
67.5°	363.7	303.1	255.2	219.3	192.4	128.8	106.2	111.6	106.8	89.3	78.7
70°	251.5	205.7	174.9	153.2	136.3	108.6	110.1	121.5	114.6	93.2	83.8
72.5°	159.5	133.3	118.2	110.1	101.9	91.7	109.2	120.3	111.0	93.8	83.8
75°	102.2	91.4	86.3	83.2	80.8	79.9	96.2	98.9	89.3	81.4	78.1
77.5°	72.4	70.6	69.7	69.4	69.7	71.8	79.6	74.5	64.8	65.1	67.0
80°	61.2	61.2	60.6	60.9	61.5	62.4	63.6	54.9	49.8	53.7	59.7
82.5°	56.1	57.0	57.6	58.2	59.1	57.9	54.0	41.6	40.1	52.2	58.5
85°	57.0	57.0	57.3	57.9	58.2	52.2	44.9	31.4	30.8	58.5	55.2
87.5°	48.9	48.3	46.1	44.6	42.5	35.9	29.9	17.5	18.1	36.2	38.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P145014

CATALOG NUMBER: VPL-F02-LED-E1-GL2-7030

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	479.8	479.8
2.5°	477.4	477.4
5°	477.4	477.4
7.5°	473.5	472.3
10°	462.0	460.5
12.5°	444.6	443.0
15°	417.7	415.9
17.5°	384.2	381.2
20°	349.2	345.0
22.5°	314.3	310.9
25°	278.4	275.4
27.5°	243.1	240.1
30°	210.5	209.3
32.5°	186.4	185.2
35°	168.6	168.0
37.5°	156.5	155.9
40°	146.0	145.4
42.5°	136.3	135.4
45°	126.7	127.0
47.5°	117.0	116.7
50°	108.6	108.6
52.5°	101.6	101.3
55°	95.3	95.0
57.5°	89.0	88.7
60°	83.5	82.6
62.5°	78.4	77.8
65°	75.1	74.8
67.5°	72.7	71.8
70°	72.1	69.7
72.5°	70.3	67.3
75°	66.0	64.5
77.5°	58.2	56.4
80°	44.9	41.6
82.5°	37.7	32.6
85°	27.7	25.6
87.5°	20.2	16.0
90°	0.0	0.0

(END OF REPORT)