

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: P145914

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145914
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33704)
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-CPL-7030
Description: VALET LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - 90° FORWARD THROW PERIMETER LEFT
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4061.7 lumens
Efficiency: N/A
Efficacy: 73.8 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

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

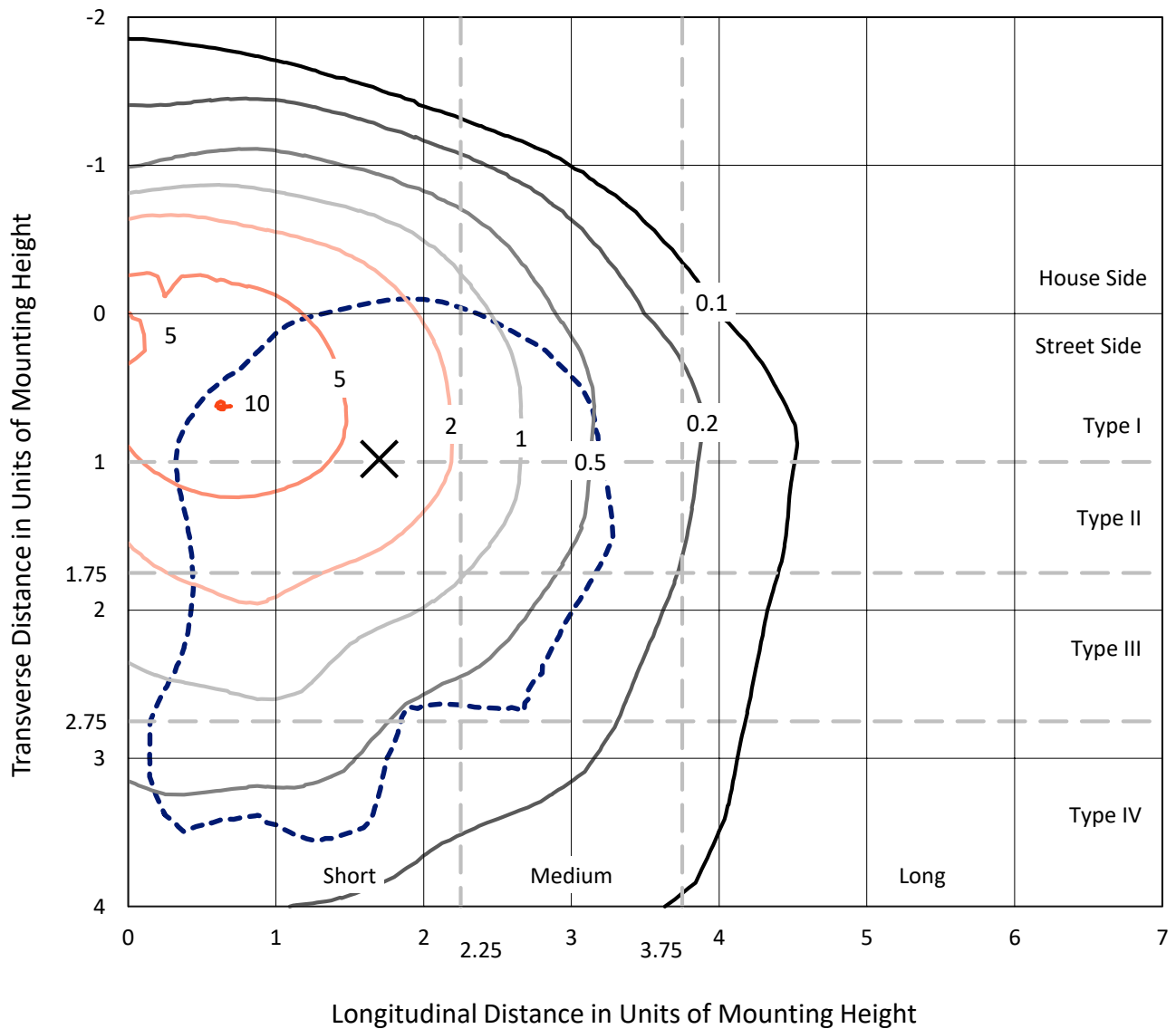


REPORT NUMBER: P145914

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

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

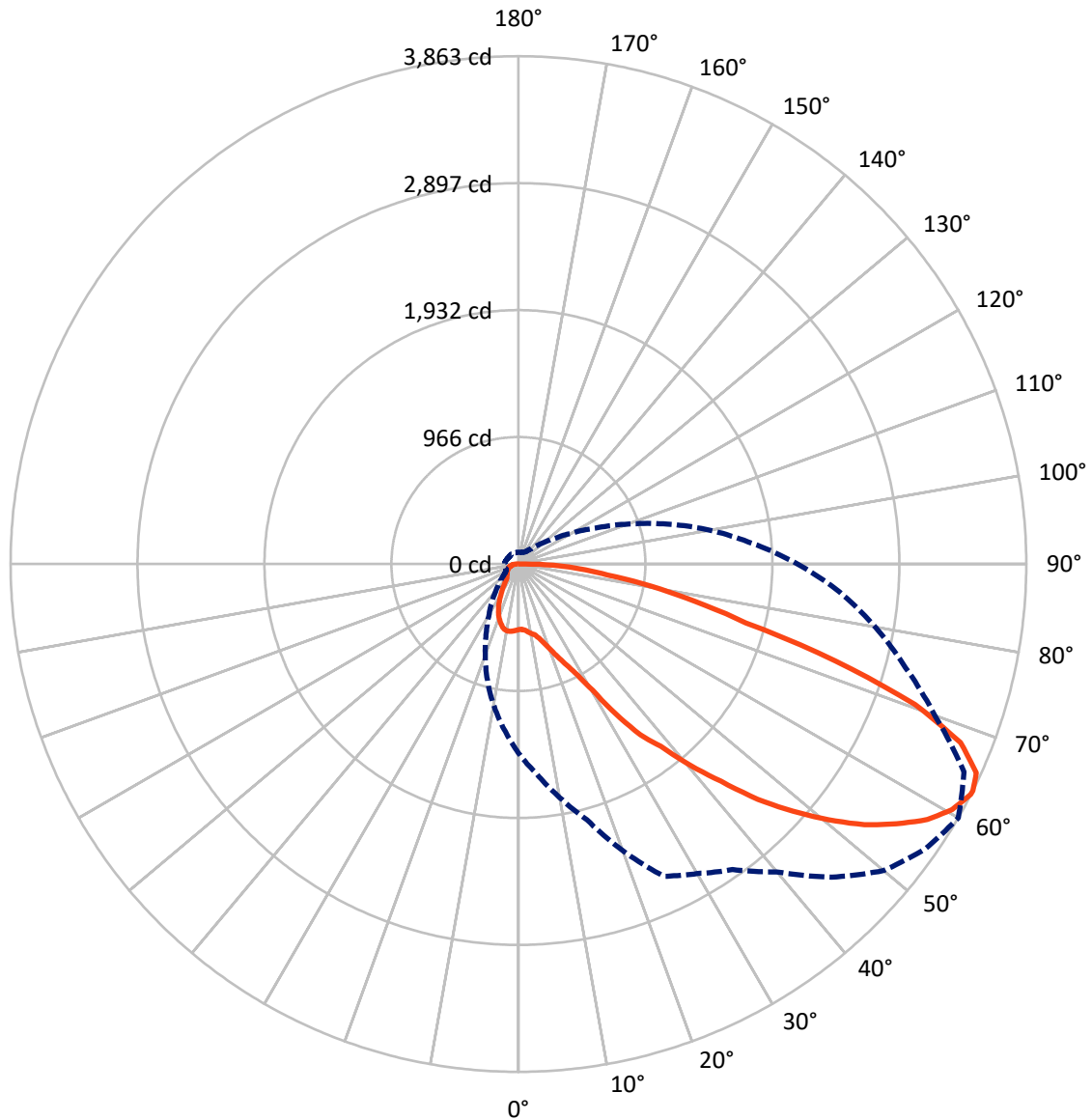


Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P145914

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

Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P145914

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

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	850.2	0.0	850.2
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	3211.4	0.0	3211.4
	% Fixture	79.1	0.0	79.1
Total	Lumens	4061.7	0.0	4061.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	1.2
10°-20°	152.9	3.8
20°-30°	270.4	6.7
30°-40°	426.9	10.5
40°-50°	627.7	15.5
50°-60°	826.9	20.4
60°-70°	921.7	22.7
70°-80°	605.6	14.9
80°-90°	180.6	4.4
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°	4061.7	100.0
0°-180°	4061.7	100.0



REPORT NUMBER: P145914

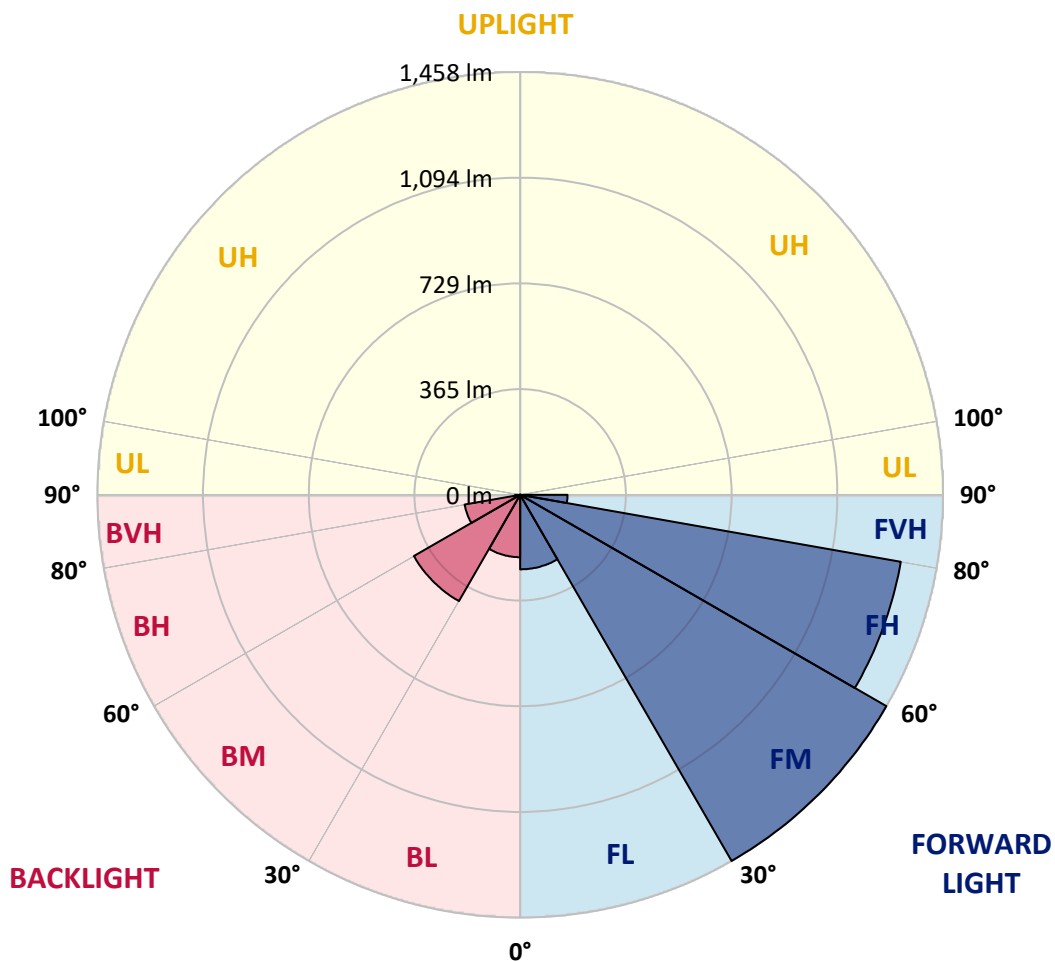
CATALOG NUMBER: VPL-F02-LED-E1-CPL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	257.1	6.3			
FM	(30°-60°)	1458.2	35.9			
FH	(60°-80°)	1332.9	32.8			G1/1800
FVH	(80°-90°)	163.2	4.0			G2/225
BL	(0°-30°)	215.2	5.3	B1/500		
BM	(30°-60°)	423.3	10.4	B1/1000		
BH	(60°-80°)	194.3	4.8	B1/500		G1/500
BVH	(80°-90°)	17.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P145914

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8
2.5°	498.2	498.5	497.6	497.3	496.7	497.0	497.0	496.4	496.4	496.7	495.8
5°	495.8	496.4	496.1	496.7	497.3	498.2	499.1	500.0	501.0	502.2	502.5
7.5°	493.1	494.9	495.2	497.0	499.1	501.6	504.6	507.9	512.4	513.6	516.3
10°	494.6	497.9	499.7	503.4	506.7	511.2	516.6	520.0	525.7	527.8	531.7
12.5°	506.4	508.8	511.2	515.4	520.3	526.0	532.0	537.1	543.2	545.3	546.8
15°	528.7	531.1	533.8	538.0	543.2	550.1	558.9	565.2	572.4	577.9	581.8
17.5°	559.8	559.8	566.1	567.3	577.3	587.8	598.7	611.0	618.6	623.1	630.3
20°	604.4	604.4	612.8	616.8	625.2	638.8	653.6	667.1	678.0	687.0	693.7
22.5°	681.6	678.3	685.5	684.6	694.9	715.1	729.6	737.1	751.6	757.0	765.8
25°	771.2	782.9	790.8	790.8	795.0	815.8	827.9	833.6	846.9	843.0	852.0
27.5°	881.0	912.6	941.9	954.0	948.2	971.1	975.4	980.8	979.3	969.9	967.2
30°	988.9	1044.7	1090.3	1118.0	1150.0	1194.3	1194.3	1201.6	1185.9	1159.9	1144.6
32.5°	1063.7	1135.5	1205.2	1262.8	1317.1	1384.9	1413.6	1453.4	1460.0	1470.0	1435.6
35°	1125.3	1226.0	1300.8	1387.3	1453.7	1522.5	1598.8	1667.8	1713.7	1706.1	1692.6
37.5°	1167.5	1296.9	1401.2	1502.9	1603.9	1682.6	1755.0	1845.2	1932.9	1950.4	1913.6
40°	1197.0	1346.9	1490.5	1615.4	1742.3	1860.6	1948.6	2045.4	2183.0	2241.2	2211.0
42.5°	1211.2	1386.1	1546.3	1705.2	1866.0	2015.3	2125.7	2258.4	2421.5	2521.1	2487.9
45°	1217.2	1410.3	1591.5	1772.5	1965.5	2149.8	2292.1	2442.6	2626.3	2786.2	2792.2
47.5°	1215.7	1423.2	1622.6	1820.4	2043.6	2258.1	2449.0	2619.7	2827.8	2995.8	3058.2
50°	1211.5	1427.8	1641.3	1849.4	2092.8	2337.4	2552.4	2755.4	2987.9	3200.6	3295.6
52.5°	1211.2	1428.7	1650.6	1865.4	2121.7	2385.9	2617.3	2857.0	3111.9	3334.2	3482.2
55°	1218.5	1434.1	1660.9	1876.5	2137.4	2413.4	2653.8	2920.7	3165.9	3418.3	3609.5
57.5°	1247.7	1459.4	1685.3	1895.5	2154.9	2435.1	2682.1	2939.1	3181.9	3453.3	3683.4
60°	1311.9	1506.8	1727.9	1930.5	2200.5	2492.1	2708.9	2913.1	3151.7	3443.3	3694.0
62.5°	1412.1	1582.8	1787.3	1995.1	2293.0	2600.4	2720.1	2853.7	3077.2	3386.0	3648.4
63°	1437.7	1603.0	1802.9	2012.9	2319.9	2620.9	2719.2	2838.0	3056.7	3369.1	3627.9
65°	1544.8	1696.5	1875.9	2097.9	2442.0	2686.0	2686.3	2745.7	2952.0	3276.0	3543.8
67.5°	1705.8	1850.6	1989.3	2210.1	2577.1	2718.6	2588.9	2544.0	2726.4	3078.7	3330.2
70°	1813.2	1992.1	2069.9	2239.7	2595.5	2679.1	2434.8	2284.9	2436.3	2730.7	2954.1
72.5°	1815.9	2019.8	2042.4	2113.6	2423.3	2490.3	2169.4	1966.4	2057.5	2304.5	2422.1
75°	1622.0	1878.3	1831.9	1805.7	1973.4	2002.0	1754.7	1670.2	1787.0	1932.9	1874.1
77.5°	1205.8	1546.6	1452.2	1340.6	1401.5	1405.7	1413.6	1572.8	1716.1	1775.8	1690.2
80°	748.3	1136.1	1063.7	879.8	903.3	972.7	1180.8	1462.1	1619.0	1661.8	1490.5
82.5°	451.2	835.7	797.1	671.4	700.9	873.7	1103.8	1181.7	1234.4	1230.5	1053.5
85°	330.6	567.6	620.1	629.4	734.4	848.4	843.6	786.0	753.7	663.2	566.1
87.5°	104.1	292.9	347.4	405.0	443.6	419.8	412.9	356.8	255.5	215.9	237.4
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: P145914

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

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8
2.5°	495.8	497.0	497.6	497.3	497.6	497.6	499.4	498.8	499.4	499.1	501.0
5°	503.4	505.2	506.7	506.7	507.0	507.6	510.0	510.0	511.2	513.6	514.8
7.5°	518.1	520.6	520.9	521.5	523.3	522.4	523.9	524.5	525.4	526.6	528.1
10°	533.5	536.8	536.8	536.5	536.8	534.4	535.3	533.5	533.8	535.6	537.4
12.5°	550.7	552.5	551.3	550.4	550.4	545.9	545.3	542.9	541.7	542.0	542.6
15°	585.1	583.6	583.3	581.8	576.4	573.0	570.6	563.1	559.2	557.1	553.4
17.5°	630.9	631.8	630.3	628.8	621.0	609.8	605.0	596.9	591.4	586.0	579.4
20°	697.9	691.9	691.3	686.4	675.6	659.9	648.1	634.9	627.3	619.5	612.5
22.5°	771.8	765.5	761.2	751.9	735.9	716.0	696.4	679.5	668.0	662.3	657.5
25°	853.8	850.2	843.3	819.4	806.8	783.9	762.4	745.9	732.9	728.1	719.6
27.5°	952.1	954.9	941.9	919.6	903.6	871.3	852.9	824.3	813.4	795.9	785.1
30°	1131.3	1113.8	1091.8	1057.7	1025.4	982.0	951.5	921.7	905.7	882.2	853.2
32.5°	1424.1	1357.5	1298.4	1226.0	1157.5	1102.0	1058.0	1020.3	995.9	957.0	907.8
35°	1660.3	1596.1	1498.3	1393.1	1303.2	1232.0	1176.5	1140.9	1092.1	1030.0	958.8
37.5°	1833.4	1759.5	1668.1	1587.6	1489.6	1410.3	1335.2	1261.3	1192.5	1098.4	1007.6
40°	2114.5	2014.4	1863.9	1768.9	1688.6	1581.3	1511.0	1411.5	1306.8	1185.6	1054.1
42.5°	2392.6	2259.9	2123.5	2014.4	1900.4	1783.9	1687.4	1553.8	1414.8	1257.7	1095.7
45°	2715.6	2553.0	2374.8	2222.2	2105.1	1968.2	1844.6	1680.5	1503.2	1316.8	1131.9
47.5°	2970.1	2809.1	2607.9	2454.1	2296.4	2141.9	1981.5	1779.1	1568.9	1365.0	1165.7
50°	3214.1	3058.8	2845.0	2656.2	2474.9	2288.5	2094.6	1849.1	1620.5	1402.7	1192.5
52.5°	3433.1	3295.0	3063.9	2838.3	2635.7	2420.9	2180.5	1914.5	1669.9	1441.6	1213.6
55°	3618.6	3489.2	3282.0	3001.2	2771.1	2533.4	2261.7	1974.3	1722.1	1482.4	1229.0
57.5°	3743.1	3668.3	3447.0	3144.5	2882.4	2629.3	2322.9	2034.3	1771.0	1507.7	1235.6
60°	3801.0	3791.1	3603.8	3273.8	2981.3	2704.1	2400.1	2097.9	1803.3	1519.1	1226.3
62.5°	3789.0	3860.1	3723.2	3362.5	3044.3	2750.9	2449.6	2125.4	1795.1	1491.4	1185.0
63°	3777.8	3863.2	3740.1	3371.3	3049.5	2755.4	2454.4	2122.0	1787.6	1479.0	1170.8
65°	3696.1	3827.6	3744.3	3355.6	3025.9	2742.4	2432.7	2069.9	1712.5	1401.2	1090.6
67.5°	3495.8	3627.6	3581.5	3182.8	2873.6	2603.1	2281.0	1892.2	1528.5	1235.9	941.9
70°	3082.3	3200.2	3145.1	2794.3	2507.2	2315.4	2009.2	1573.7	1245.3	993.5	716.9
72.5°	2438.1	2521.1	2533.1	2254.4	2034.6	1919.4	1618.7	1187.1	909.6	691.9	465.4
75°	1805.4	1786.1	1790.0	1634.4	1544.8	1496.2	1210.0	814.3	612.8	422.8	276.0
77.5°	1517.3	1378.6	1260.4	1217.2	1112.9	1082.7	798.0	499.7	357.7	253.0	157.1
80°	1233.8	1023.6	851.7	775.4	734.7	740.7	441.5	266.3	187.3	137.8	98.3
82.5°	843.6	683.7	539.3	468.4	461.1	468.1	229.5	130.6	98.9	79.3	61.8
85°	498.8	469.6	419.2	372.2	355.9	336.0	170.7	93.5	51.0	42.2	34.7
87.5°	215.6	264.8	271.1	269.9	251.2	201.8	62.7	24.1	21.4	10.9	8.7
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: P145914

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

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8
2.5°	501.0	501.3	500.7	501.3	503.4	503.4	503.1	503.7	504.0	505.8	505.2
5°	516.0	516.3	516.6	518.7	520.3	522.1	521.5	522.1	523.3	523.6	524.2
7.5°	529.9	531.7	534.1	535.0	537.7	538.4	541.1	541.4	542.0	540.8	539.6
10°	539.6	541.4	544.4	545.9	550.7	551.3	553.4	554.0	555.2	554.3	553.4
12.5°	544.4	545.9	549.2	552.2	558.9	561.0	564.6	566.7	568.2	567.3	564.3
15°	554.3	554.0	555.8	558.3	564.3	568.2	573.3	576.1	577.9	576.4	572.4
17.5°	577.3	573.0	573.0	571.5	576.1	577.0	579.1	580.6	580.0	575.4	569.1
20°	608.9	602.6	598.7	595.1	593.5	586.0	582.1	576.7	571.8	563.7	556.4
22.5°	649.9	645.4	636.4	628.2	616.8	601.4	584.8	570.6	560.1	548.9	536.5
25°	712.1	701.8	688.8	669.5	654.8	627.6	599.9	573.0	550.4	532.9	512.1
27.5°	770.6	748.9	724.4	694.3	667.1	630.9	595.7	564.6	535.0	507.0	483.2
30°	819.4	781.7	741.9	699.7	661.1	617.4	576.4	541.1	507.6	474.4	451.8
32.5°	856.2	801.9	748.9	694.9	647.2	596.0	548.9	511.2	473.2	438.2	412.0
35°	889.4	816.1	746.8	681.9	625.5	568.8	518.1	475.9	434.3	396.9	366.7
37.5°	913.2	820.9	737.7	663.2	597.8	535.6	480.7	435.8	391.2	353.2	320.0
40°	931.6	818.5	720.5	634.6	559.8	495.2	441.5	394.5	349.9	311.9	277.2
42.5°	944.0	809.5	694.6	602.0	528.1	460.5	408.1	358.6	314.0	274.2	235.8
45°	960.0	805.9	678.6	577.6	499.4	431.3	375.2	326.9	280.5	238.9	202.4
47.5°	975.1	803.8	665.6	557.4	473.5	404.7	349.2	298.6	251.8	211.1	177.9
50°	984.1	800.4	652.1	532.9	444.6	377.6	324.5	273.2	226.2	187.3	157.7
52.5°	986.8	793.8	634.3	505.2	419.5	354.4	299.2	247.9	202.7	167.7	140.2
55°	984.7	780.8	610.1	482.6	393.9	328.7	273.5	223.8	182.8	149.9	127.9
57.5°	974.5	754.9	579.1	453.9	364.6	296.5	242.2	196.6	160.1	133.9	117.0
60°	951.5	717.5	541.1	413.8	322.7	258.2	206.9	167.7	136.9	117.9	106.8
62.5°	901.5	663.5	485.9	357.1	266.6	207.2	162.6	133.6	112.8	102.8	96.2
63°	886.7	644.8	469.6	342.0	257.0	195.7	152.6	126.4	107.7	99.5	94.1
65°	808.9	558.6	396.9	275.1	199.1	148.4	116.4	99.2	89.3	86.3	84.7
67.5°	662.9	434.6	279.3	184.6	133.6	102.5	86.0	79.3	75.7	75.4	76.3
70°	468.4	288.3	172.8	118.2	92.0	77.5	71.2	68.2	66.4	67.0	68.8
72.5°	304.6	169.2	109.2	86.6	74.8	68.2	63.6	62.7	62.1	61.5	62.1
75°	161.1	105.9	82.6	72.4	65.4	60.0	57.0	55.8	56.1	56.1	56.1
77.5°	99.8	80.5	70.6	63.9	58.5	53.1	50.1	49.2	49.5	50.1	50.4
80°	76.6	70.3	62.1	57.3	49.5	44.9	43.4	43.1	43.7	43.7	44.6
82.5°	56.1	54.3	51.3	45.2	39.2	36.2	35.9	37.1	35.9	35.6	36.2
85°	32.9	30.8	33.5	28.7	26.2	24.4	25.6	28.0	29.3	27.7	27.1
87.5°	10.6	7.2	10.6	11.8	10.6	9.0	11.5	13.6	13.9	13.3	15.1
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: P145914

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8
2.5°	504.9	507.0	504.9	505.8	505.5	504.9	505.8	504.6	504.0	505.8	505.5
5°	523.9	524.2	521.5	521.8	521.5	519.0	519.0	517.8	516.3	516.6	516.0
7.5°	539.3	538.7	536.5	535.6	532.9	531.1	529.9	528.1	526.9	525.7	525.1
10°	551.0	549.5	548.0	545.3	542.6	541.1	537.7	535.0	534.1	532.3	531.1
12.5°	561.3	558.6	556.1	552.8	549.5	547.1	543.2	541.1	539.6	537.1	535.3
15°	567.0	561.9	557.4	552.2	548.6	545.0	540.5	539.6	537.4	535.0	531.7
17.5°	560.1	552.8	544.4	539.0	533.5	528.1	523.6	523.6	522.7	520.0	514.2
20°	545.9	535.0	525.1	516.3	510.9	503.1	500.4	496.1	493.1	488.3	481.0
22.5°	522.7	511.2	498.2	489.5	480.1	471.4	466.0	459.3	456.9	449.1	439.4
25°	496.7	480.1	466.3	454.8	441.8	431.6	424.0	415.0	409.0	401.4	389.4
27.5°	466.0	448.8	433.1	420.4	406.9	392.7	378.8	368.3	357.4	348.6	341.7
30°	432.8	415.0	395.7	380.9	365.2	347.4	336.0	321.8	313.4	303.7	294.7
32.5°	389.4	373.7	351.1	333.9	314.6	300.7	291.3	277.8	267.8	259.7	254.5
35°	341.7	318.2	295.6	282.6	269.3	258.2	245.2	234.6	228.0	219.6	215.0
37.5°	289.8	262.4	243.1	231.6	218.1	212.6	204.5	198.1	192.1	186.4	182.8
40°	243.4	218.1	200.6	190.9	181.9	175.8	170.7	168.0	164.1	159.5	156.8
42.5°	204.8	184.6	167.4	158.3	151.4	150.8	147.5	145.4	143.9	141.1	136.9
45°	174.6	156.2	141.4	134.2	131.2	131.5	131.5	129.7	129.7	128.8	126.1
47.5°	154.4	137.8	127.0	122.1	120.9	121.2	120.3	119.7	120.0	119.7	118.2
50°	138.7	124.6	115.5	113.7	113.4	113.1	111.9	111.0	110.7	111.3	111.0
52.5°	122.8	111.0	105.9	105.3	105.6	105.6	105.3	105.0	105.6	106.2	105.3
55°	113.7	105.3	101.9	101.9	101.9	101.9	101.6	101.3	102.2	103.1	101.6
57.5°	105.3	99.2	98.0	98.0	98.0	97.4	97.4	97.7	98.9	100.7	98.9
60°	98.9	95.9	95.9	96.2	95.9	94.7	93.8	93.8	95.3	97.7	96.2
62.5°	92.9	91.4	92.0	91.7	91.1	89.6	88.4	88.4	90.2	92.6	93.2
63°	91.4	90.2	90.8	90.5	89.9	88.7	87.5	87.5	89.0	91.4	92.3
65°	84.7	85.1	85.4	85.7	85.4	85.1	83.5	82.9	84.1	86.0	87.2
67.5°	76.9	77.5	78.1	79.6	79.0	79.0	78.1	77.5	77.8	78.7	79.6
70°	69.7	70.3	71.2	71.8	72.1	72.4	71.8	70.9	71.2	71.5	72.1
72.5°	62.7	63.3	63.9	65.1	65.1	65.1	64.5	63.9	64.2	64.8	65.4
75°	56.4	56.7	57.3	58.2	58.5	57.9	57.9	57.3	57.6	58.5	59.1
77.5°	50.1	49.5	49.8	50.4	51.3	51.3	51.6	51.3	51.9	52.5	53.1
80°	42.8	42.2	41.6	41.9	43.1	44.6	46.1	46.1	47.0	47.4	48.3
82.5°	34.1	33.5	33.2	34.1	33.8	35.9	39.2	41.0	42.2	43.4	44.0
85°	26.5	25.0	25.6	25.6	25.0	28.4	31.4	33.8	34.1	35.9	36.2
87.5°	15.7	15.1	14.5	13.9	16.0	19.3	22.0	22.9	23.5	24.4	25.3
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: P145914

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8
2.5°	503.1	505.5	504.9	504.6	504.9	504.6	503.7	504.0	503.4	503.7	503.1
5°	512.7	513.9	513.0	511.5	511.5	509.4	507.9	506.7	505.2	504.6	503.4
7.5°	522.1	521.2	520.0	517.2	515.7	513.0	510.9	508.5	507.0	505.2	503.1
10°	527.8	526.0	523.6	520.3	516.0	513.6	510.6	507.0	505.2	504.3	502.2
12.5°	530.5	525.7	521.8	515.7	509.7	505.2	501.9	498.2	497.3	496.1	494.6
15°	524.2	517.2	507.3	499.1	491.3	485.0	482.3	478.3	477.4	477.1	476.8
17.5°	502.8	492.2	482.6	471.7	464.8	459.0	456.6	455.7	454.2	453.6	453.9
20°	468.4	459.3	449.7	446.1	437.9	436.4	432.8	430.4	427.7	426.8	425.3
22.5°	428.3	417.1	411.1	408.4	405.0	397.2	395.4	393.0	389.4	386.6	386.0
25°	381.5	372.5	372.2	365.8	363.1	358.9	354.1	351.1	348.9	345.6	343.2
27.5°	333.9	330.6	324.8	320.0	318.2	315.8	308.5	307.0	304.6	301.9	299.2
30°	289.5	287.1	281.7	277.2	274.5	269.6	262.7	263.3	258.5	254.8	252.4
32.5°	246.4	244.6	239.5	238.3	229.5	227.1	219.9	214.4	209.6	206.0	203.0
35°	207.5	202.7	203.0	197.5	192.7	185.5	177.9	171.0	167.1	165.3	162.6
37.5°	179.5	174.9	170.4	164.4	158.9	153.8	149.3	147.2	144.8	145.4	145.7
40°	154.1	150.8	147.5	143.3	139.9	137.8	136.6	136.6	136.9	138.4	139.6
42.5°	136.0	133.3	131.5	130.0	130.6	130.6	131.5	133.0	134.5	136.6	137.8
45°	124.0	122.4	121.8	122.4	124.3	125.8	127.9	130.3	132.7	134.8	135.7
47.5°	116.7	115.8	115.8	117.3	120.0	122.4	125.8	128.2	130.9	132.7	133.3
50°	108.9	108.6	108.6	109.8	112.2	115.2	118.5	120.9	123.4	124.9	125.5
52.5°	104.4	103.4	103.1	104.7	106.8	109.8	113.1	115.5	117.3	118.5	118.8
55°	100.4	99.5	98.9	100.7	103.1	105.9	109.8	112.5	114.3	115.8	117.0
57.5°	97.1	96.2	95.6	97.7	100.1	103.4	106.8	109.8	112.2	114.0	115.2
60°	94.4	93.2	92.6	95.0	97.4	100.7	104.1	107.4	110.7	112.8	113.4
62.5°	91.1	90.2	89.3	90.8	92.0	94.4	97.4	100.7	103.7	105.9	105.9
63°	90.2	89.9	88.7	89.9	91.1	93.2	96.2	99.2	102.2	104.7	104.4
65°	86.3	86.3	85.7	86.9	88.1	90.2	92.6	95.9	98.6	100.4	100.7
67.5°	79.9	80.2	80.8	82.0	84.4	86.6	89.3	92.3	94.7	95.9	96.5
70°	72.7	73.3	74.5	76.3	78.4	80.2	82.0	85.1	87.2	88.4	89.0
72.5°	65.7	67.3	68.2	69.7	70.9	72.7	74.2	77.2	79.0	79.9	81.4
75°	59.4	60.6	61.2	62.1	63.3	63.9	65.7	67.0	69.4	70.6	72.4
77.5°	53.4	54.0	54.9	56.4	56.7	57.6	58.2	60.0	61.2	62.4	63.9
80°	48.0	48.6	49.8	50.7	51.0	51.6	51.9	51.6	51.3	50.4	51.6
82.5°	43.1	43.7	45.2	46.1	47.0	47.0	46.7	43.4	41.9	42.5	43.4
85°	35.6	36.2	37.7	39.5	39.8	39.5	39.8	36.5	34.4	33.5	34.4
87.5°	22.3	21.7	26.8	29.3	27.4	28.0	28.4	26.5	24.7	21.1	22.0
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: P145914
 CATALOG NUMBER: VPL-F02-LED-E1-CPL-7030

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8	498.8	0°
2.5°	503.7	501.6	501.9	502.5	502.5	503.4	502.2	500.7	501.6	500.0	499.7	2.5°
5°	503.4	500.7	500.7	501.3	500.7	501.3	500.4	498.8	499.7	497.9	497.6	5°
7.5°	502.2	500.7	501.3	501.9	501.0	501.3	501.0	498.8	499.1	498.2	496.1	7.5°
10°	501.6	500.7	501.9	503.7	503.7	504.0	503.1	500.7	499.1	498.2	496.4	10°
12.5°	495.2	496.4	498.8	503.1	504.6	507.0	508.2	507.0	507.6	506.4	505.8	12.5°
15°	477.1	480.1	484.1	490.4	494.9	500.4	507.0	510.0	515.7	520.3	523.3	15°
17.5°	455.4	457.5	461.7	469.0	474.7	485.6	494.6	504.9	516.0	528.1	538.7	17.5°
20°	428.6	427.1	433.7	441.5	451.5	463.6	476.8	492.2	510.6	529.9	548.3	20°
22.5°	389.1	389.1	396.0	405.3	417.4	431.3	449.7	466.3	490.4	518.4	545.6	22.5°
25°	343.8	344.7	349.6	360.1	368.6	388.5	405.6	427.1	456.0	486.8	523.0	25°
27.5°	295.6	301.6	300.4	311.6	322.7	342.3	365.8	387.6	419.8	452.7	494.0	27.5°
30°	251.8	250.9	250.6	263.9	275.1	292.9	312.2	339.6	372.2	414.4	462.0	30°
32.5°	197.5	200.9	203.3	211.1	223.2	239.8	260.6	289.2	328.4	371.0	424.6	32.5°
35°	163.2	164.1	167.4	171.9	182.5	196.3	218.1	243.4	277.8	321.8	378.8	35°
37.5°	146.3	147.2	150.8	155.0	162.6	172.8	187.6	207.2	238.9	279.9	333.0	37.5°
40°	140.8	141.8	143.9	147.8	154.7	163.5	175.2	190.3	213.2	245.2	291.6	40°
42.5°	138.4	138.4	138.7	141.8	148.7	158.9	171.6	185.2	202.1	226.2	263.9	42.5°
45°	135.7	135.7	135.4	137.5	143.0	154.7	170.1	186.7	205.1	225.9	255.5	45°
47.5°	133.3	132.7	132.1	133.0	137.5	149.6	167.4	187.6	211.1	237.1	266.9	47.5°
50°	124.9	124.9	124.6	124.9	129.1	141.8	162.3	186.7	216.5	250.0	286.2	50°
52.5°	118.8	119.1	119.4	119.4	122.8	135.7	158.3	187.0	222.6	262.7	308.5	52.5°
55°	117.3	117.9	117.9	117.3	120.0	131.8	154.7	186.1	226.8	276.9	332.4	55°
57.5°	115.5	115.8	116.1	115.5	117.3	127.6	149.6	181.9	225.6	282.3	350.2	57.5°
60°	113.1	111.9	111.6	110.7	111.9	120.0	140.5	172.8	218.4	279.9	356.2	60°
62.5°	106.5	105.6	104.7	103.7	104.7	110.7	130.6	161.7	206.3	270.2	351.4	62.5°
63°	105.0	104.4	103.4	102.5	102.5	109.2	127.3	158.9	203.3	267.5	349.6	63°
65°	100.7	100.4	99.8	98.9	98.6	103.7	119.7	146.6	189.1	255.5	338.1	65°
67.5°	95.9	95.9	95.6	94.4	92.9	95.9	107.1	128.2	164.4	224.4	309.7	67.5°
70°	89.0	89.0	88.7	88.1	86.3	88.4	95.6	109.5	135.4	183.4	259.7	70°
72.5°	82.0	82.0	82.9	82.6	82.9	83.2	86.9	94.4	110.1	142.7	196.3	72.5°
75°	73.0	74.5	74.8	75.4	75.7	75.4	77.2	81.7	90.8	109.5	143.3	75°
77.5°	65.4	67.6	67.3	66.7	66.4	66.7	66.4	68.5	75.1	86.9	106.2	77.5°
80°	54.0	56.1	56.1	55.8	55.2	55.8	55.2	57.3	62.7	73.0	84.4	80°
82.5°	44.3	45.8	46.7	47.4	46.7	49.2	49.2	48.6	52.8	61.8	71.2	82.5°
85°	35.6	37.1	38.0	39.2	39.8	39.2	38.9	38.3	40.7	48.0	54.3	85°
87.5°	22.6	23.8	23.8	24.1	24.1	25.0	23.2	21.1	19.3	27.4	28.7	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



NUMBER: P145914

NUMBER: VPL-F02-LED-E1-CPL-7030

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
498.8	498.8	498.8	498.8	498.8	498.8	498.8
498.8	498.8	499.1	498.2	499.1	499.1	498.2
496.7	496.1	496.1	495.8	496.4	496.1	495.8
494.9	494.9	493.7	492.8	492.5	493.7	493.1
494.3	493.7	493.4	492.8	493.1	494.0	494.6
505.2	503.1	503.7	503.4	503.7	504.6	506.4
525.1	525.1	526.6	523.3	524.8	526.3	528.7
547.4	552.8	555.5	555.2	555.8	557.1	559.8
566.4	583.6	595.7	598.7	606.8	608.6	604.4
574.8	605.6	632.8	650.8	671.1	679.2	681.6
557.7	602.0	646.6	688.2	728.1	751.0	771.2
539.9	592.3	651.8	713.9	778.7	837.2	881.0
515.1	584.5	664.7	748.6	834.5	916.0	988.9
488.0	571.8	665.9	767.9	874.0	975.4	1063.7
449.1	542.3	646.6	764.9	887.9	1014.9	1125.3
404.4	495.2	612.2	747.4	887.0	1035.1	1167.5
356.8	449.7	572.7	717.5	875.2	1041.4	1197.0
320.9	412.9	533.5	689.2	857.7	1037.2	1211.2
302.5	381.2	501.6	661.4	838.1	1026.9	1217.2
306.1	372.8	482.6	638.5	820.6	1015.8	1215.7
326.3	385.4	482.3	630.0	809.5	1005.5	1211.5
356.8	414.1	499.7	640.0	815.5	1004.6	1211.2
391.2	454.2	542.0	666.8	841.2	1020.9	1218.5
424.3	503.1	596.3	726.8	889.7	1061.6	1247.7
444.0	547.7	665.9	811.6	964.5	1133.1	1311.9
448.5	574.5	727.8	894.8	1067.1	1236.5	1412.1
448.2	577.3	738.3	912.0	1087.9	1260.4	1437.7
441.2	582.7	766.7	968.7	1171.4	1362.6	1544.8
419.5	573.0	782.3	1021.5	1254.3	1475.4	1705.8
369.8	529.0	763.9	1038.7	1303.8	1550.2	1813.2
289.5	436.4	659.6	949.4	1236.9	1483.3	1815.9
203.6	308.5	507.6	779.6	1011.0	1253.4	1622.0
141.8	200.0	329.6	524.5	729.6	914.4	1205.8
103.7	133.0	197.5	313.7	442.7	571.5	748.3
79.9	95.9	126.4	189.4	250.0	320.0	451.2
56.1	63.3	78.1	117.0	167.7	228.9	330.6
24.4	28.7	37.7	69.1	113.4	109.2	104.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)