

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: P145315

Luminaire Tested: **VPL-F02-LED-E1-GL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145315
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33702)
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-GL3
Description: VALET LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ GLARE CONTROL
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4901.5 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

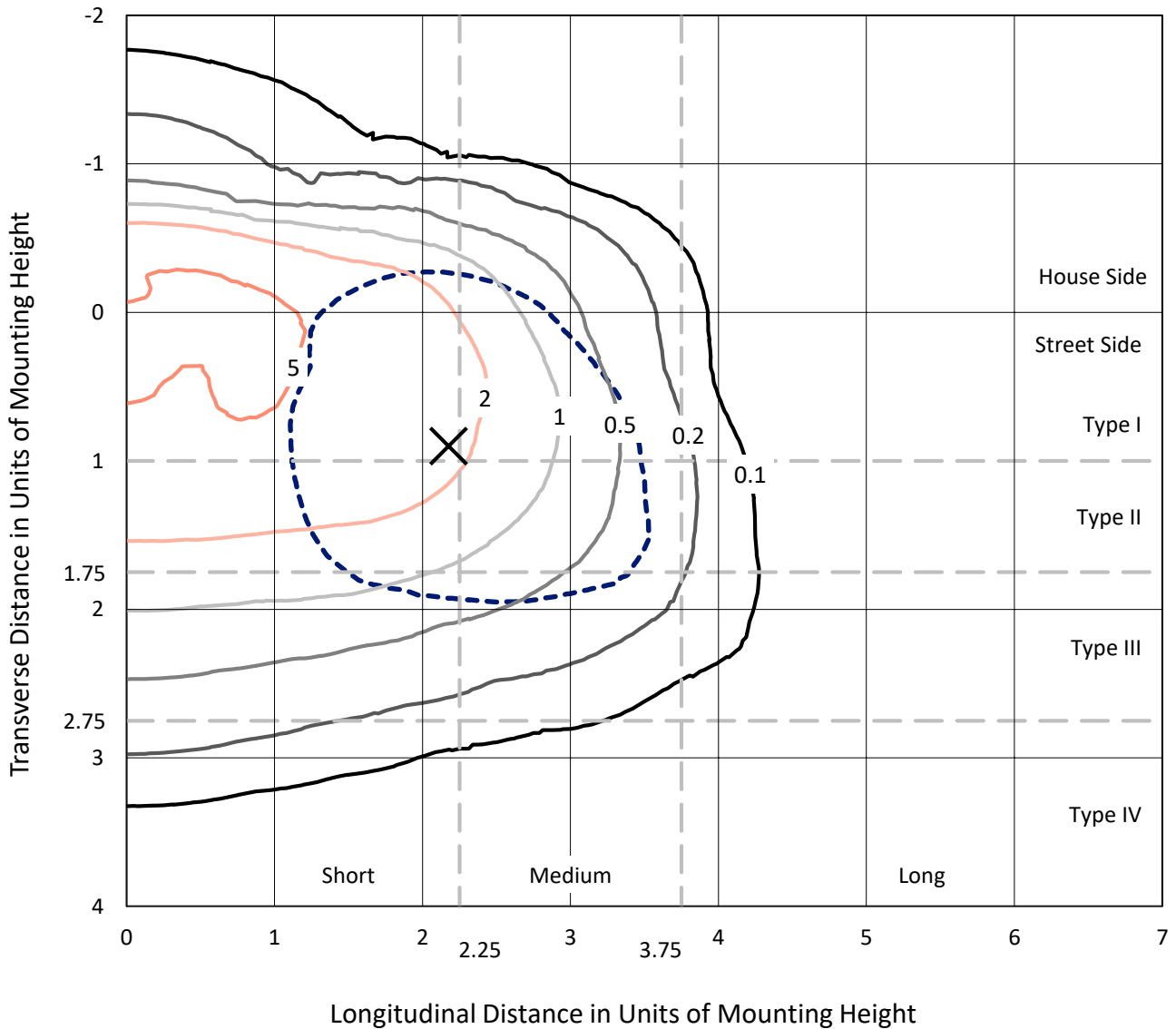
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

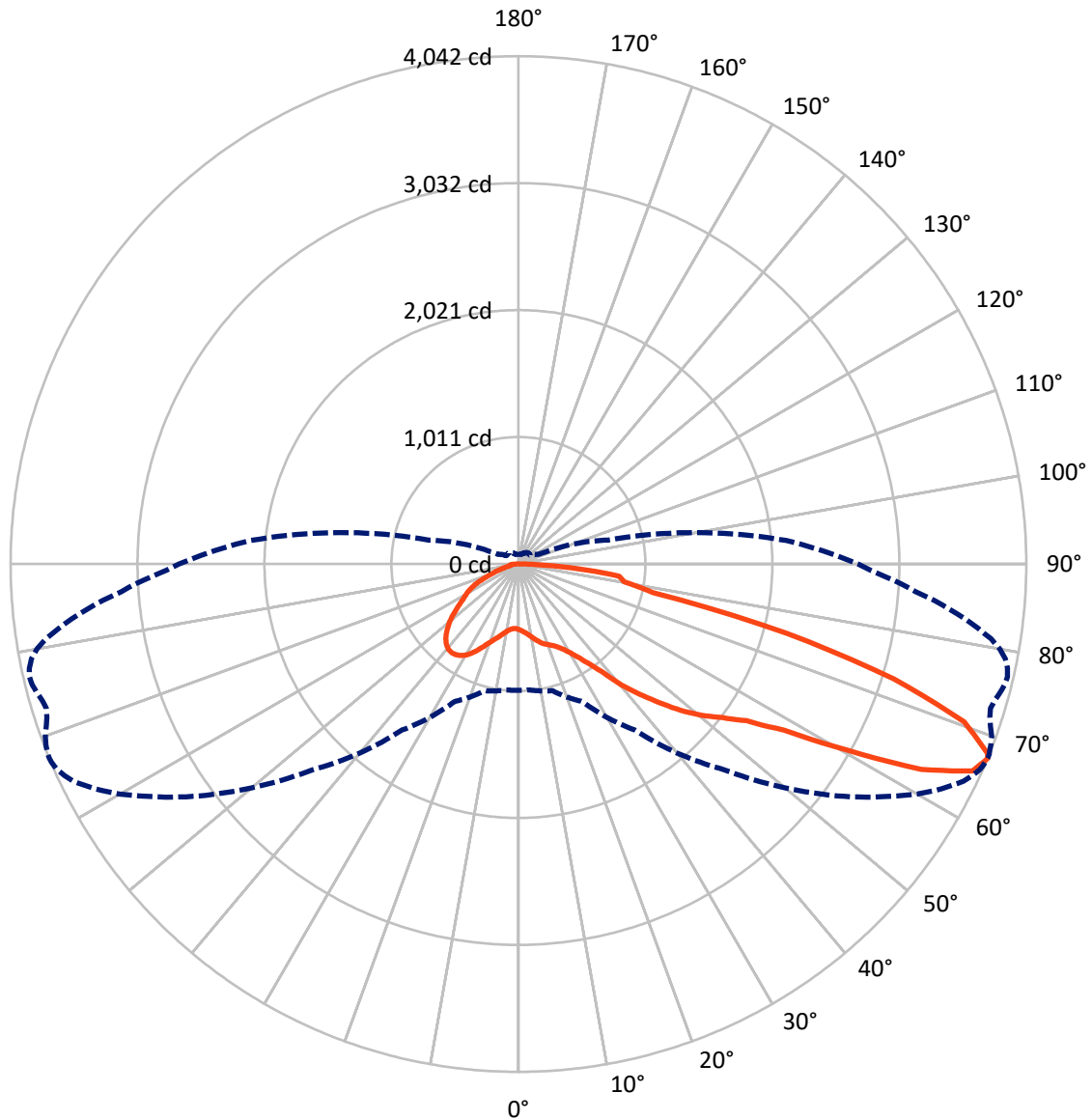
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1160.6	0.0	1160.6
	% Fixture	23.7	0.0	23.7
Street Side	Lumens	3740.8	0.0	3740.8
	% Fixture	76.3	0.0	76.3
Total	Lumens	4901.5	0.0	4901.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.0	1.1
10°-20°	178.2	3.6
20°-30°	317.2	6.5
30°-40°	462.1	9.4
40°-50°	712.0	14.5
50°-60°	1042.7	21.3
60°-70°	1384.7	28.2
70°-80°	652.7	13.3
80°-90°	99.8	2.0
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°	4901.5	100.0
0°-180°	4901.5	100.0



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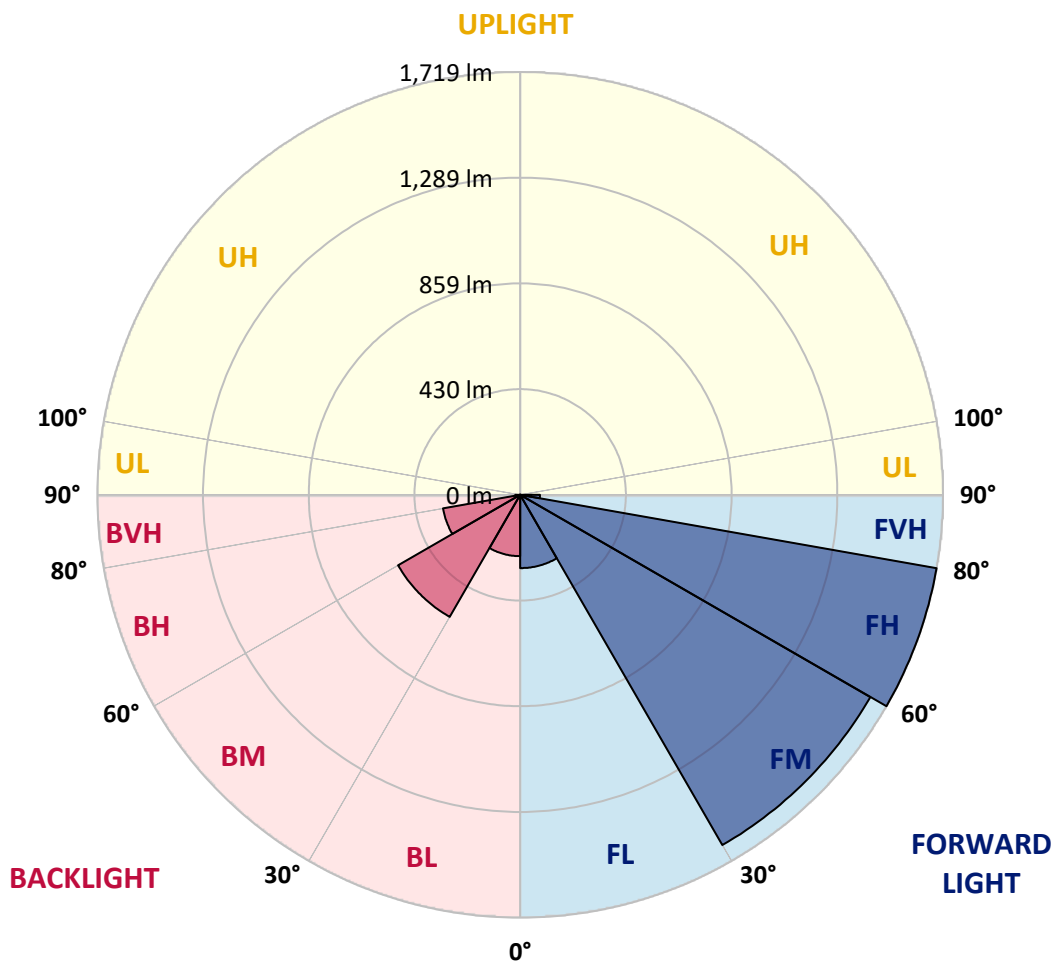
CATALOG NUMBER: VPL-F02-LED-E1-GL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	298.0	6.1			
FM	(30°-60°)	1643.7	33.5			
FH	(60°-80°)	1718.7	35.1			G1/1800
FVH	(80°-90°)	80.4	1.6			G1/100
BL	(0°-30°)	249.5	5.1	B1/500		
BM	(30°-60°)	573.1	11.7	B1/1000		
BH	(60°-80°)	318.6	6.5	B1/500		G1/500
BVH	(80°-90°)	19.4	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4
2.5°	547.5	545.2	545.5	546.5	543.2	541.5	537.9	535.6	535.3	534.9	533.6
5°	579.5	577.2	578.2	575.6	569.3	565.0	557.4	553.4	552.8	552.1	550.5
7.5°	612.9	609.9	606.6	603.6	596.7	589.8	579.8	573.9	573.2	572.3	571.3
10°	652.5	648.2	645.6	636.3	624.4	614.9	604.9	598.7	598.3	597.3	595.4
12.5°	697.1	692.5	687.5	675.3	656.8	642.6	631.0	627.4	624.4	624.8	622.8
15°	741.3	736.4	729.8	714.2	689.8	668.7	653.8	648.5	648.9	647.2	648.2
17.5°	778.6	774.3	764.8	745.0	716.6	687.5	668.7	666.4	667.0	666.7	667.7
20°	803.1	800.4	785.9	762.1	730.1	698.1	678.9	678.9	679.2	680.6	682.9
22.5°	817.9	814.0	794.8	761.5	729.8	703.0	688.2	691.5	693.4	694.4	698.1
25°	826.2	821.2	795.1	750.9	718.5	706.6	702.0	710.3	713.6	715.2	721.2
27.5°	826.2	820.2	790.9	737.7	705.7	717.5	728.4	742.6	745.0	749.9	756.8
30°	816.9	812.3	784.2	727.8	702.4	738.0	771.0	787.2	792.8	798.4	807.4
32.5°	807.0	803.1	780.9	733.1	720.8	780.9	836.1	858.2	861.5	866.1	875.4
35°	806.4	805.1	795.5	766.7	776.7	859.5	934.2	949.4	958.6	960.9	964.9
37.5°	813.3	815.9	824.2	821.2	856.9	976.4	1062.6	1093.0	1100.3	1096.3	1099.9
40°	829.5	836.1	866.8	904.8	979.4	1117.8	1237.6	1272.6	1280.6	1278.2	1277.3
42.5°	880.7	889.6	934.8	1016.1	1106.9	1264.0	1400.1	1437.7	1440.4	1441.7	1433.1
45°	960.9	965.9	1026.0	1129.6	1244.9	1421.6	1562.2	1604.2	1602.5	1595.9	1589.6
47.5°	1052.0	1062.3	1134.3	1259.8	1387.5	1567.2	1726.3	1767.3	1770.9	1765.0	1753.4
50°	1134.9	1142.9	1224.1	1373.0	1513.4	1688.4	1864.7	1906.0	1905.3	1908.6	1911.9
52.5°	1200.3	1207.6	1284.8	1448.6	1605.8	1790.1	1969.0	2019.9	2027.8	2033.1	2039.7
55°	1234.0	1241.6	1312.9	1480.0	1661.9	1889.5	2089.6	2162.5	2176.1	2188.0	2198.9
57.5°	1234.7	1244.6	1309.9	1477.7	1691.0	1978.3	2249.1	2380.2	2399.3	2429.7	2467.0
60°	1214.5	1228.4	1287.2	1456.2	1724.4	2090.9	2511.9	2762.9	2800.5	2853.7	2901.6
62.5°	1162.0	1175.9	1228.4	1401.7	1763.3	2235.2	2891.6	3259.5	3339.7	3398.5	3493.3
65°	1079.1	1092.3	1136.6	1311.6	1732.3	2349.1	3174.6	3615.8	3697.7	3771.3	3882.6
67°	1005.2	1006.5	1043.8	1208.2	1611.4	2313.8	3231.4	3663.3	3739.0	3813.6	3942.7
67.5°	979.1	986.3	1015.4	1173.9	1565.5	2287.7	3209.0	3637.6	3710.9	3790.5	3922.2
70°	791.5	793.5	821.6	936.5	1242.2	1896.7	2882.4	3309.0	3359.2	3475.8	3605.2
72.5°	482.8	479.5	488.4	573.6	817.6	1313.6	2307.8	2724.2	2792.9	2892.3	2979.8
75°	265.8	281.7	292.6	351.7	459.3	772.4	1571.5	1971.0	2071.7	2130.8	2148.3
77.5°	162.5	161.1	166.1	226.9	376.8	528.3	868.1	1156.4	1212.5	1229.4	1164.3
80°	77.3	80.2	79.3	93.4	182.6	445.8	606.9	742.6	771.0	787.2	808.4
82.5°	42.3	43.9	49.9	55.8	72.0	191.9	523.7	684.9	704.0	731.7	762.8
85°	26.4	27.7	38.3	40.3	44.2	59.1	218.3	400.2	416.4	471.5	489.0
87.5°	10.9	11.9	20.8	18.8	22.5	20.8	66.0	101.7	108.0	114.9	127.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: VPL-F02-LED-E1-GL3

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	67.5°	68°	69°	70°	71°	72°	73°	74°
0°	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4
2.5°	533.9	533.6	532.3	532.0	532.6	532.6	532.0	531.0	530.6	530.3	529.7
5°	549.8	549.1	548.1	547.5	547.2	547.2	546.2	545.2	544.2	542.9	542.5
7.5°	568.6	568.6	568.3	567.3	566.3	565.0	564.0	563.0	562.0	561.4	560.4
10°	593.4	594.7	592.4	591.7	591.4	589.4	589.1	588.1	587.4	585.8	585.8
12.5°	622.8	621.5	621.1	619.8	619.8	618.8	618.5	618.2	617.5	616.2	615.8
15°	647.2	647.2	646.9	646.2	646.9	646.2	645.2	645.9	644.9	645.2	644.2
17.5°	667.0	668.3	668.0	668.3	668.0	668.0	668.7	668.7	669.3	668.0	668.3
20°	683.5	685.5	686.5	685.8	686.5	686.8	688.5	689.1	690.1	690.8	690.8
22.5°	700.7	703.3	705.3	705.3	706.6	708.0	710.9	711.6	713.9	713.6	715.2
25°	724.8	729.1	730.4	732.4	734.1	736.4	740.0	741.7	742.6	745.0	747.6
27.5°	761.8	767.1	768.1	770.4	774.7	776.0	780.0	781.6	785.2	790.2	791.2
30°	812.3	818.9	819.3	821.9	826.8	828.5	831.8	836.1	839.1	844.0	844.3
32.5°	881.0	887.6	886.6	891.6	891.2	896.2	895.2	901.8	904.4	907.1	914.4
35°	972.5	971.8	976.8	978.4	977.4	981.4	980.7	983.7	986.3	986.3	994.3
37.5°	1104.2	1103.2	1102.6	1095.6	1094.0	1094.3	1093.0	1095.6	1091.3	1091.3	1099.9
40°	1280.9	1274.9	1270.3	1265.7	1261.1	1254.8	1249.5	1248.2	1240.9	1240.6	1237.3
42.5°	1434.4	1428.8	1425.5	1416.6	1412.0	1411.0	1398.1	1394.5	1392.5	1393.8	1390.5
45°	1595.6	1589.6	1577.1	1573.1	1571.8	1564.9	1562.9	1554.0	1551.3	1555.9	1554.3
47.5°	1761.7	1753.1	1746.2	1741.5	1739.9	1733.9	1725.3	1732.6	1729.0	1726.3	1721.4
50°	1910.9	1901.3	1901.3	1893.1	1894.4	1890.5	1881.5	1883.5	1873.3	1877.2	1874.6
52.5°	2036.1	2036.7	2040.0	2030.8	2032.4	2032.4	2029.5	2019.9	2022.5	2021.2	2027.5
55°	2195.2	2206.1	2200.2	2201.8	2203.8	2213.1	2219.7	2214.1	2204.8	2212.1	2232.2
57.5°	2473.6	2483.5	2489.5	2494.1	2501.7	2506.0	2541.6	2546.6	2536.0	2557.8	2602.7
60°	2957.7	2969.6	2987.4	3010.9	3015.8	3045.9	3064.3	3086.1	3094.1	3112.9	3161.1
62.5°	3539.9	3566.6	3569.9	3599.6	3622.7	3594.7	3601.9	3628.7	3598.3	3639.9	3641.9
65°	3920.9	3959.9	3961.2	3972.1	3980.7	3954.3	3942.4	3930.5	3901.8	3900.1	3928.8
67°	3986.3	4022.0	4036.8	4042.1	4040.8	4027.2	4007.8	3973.4	3945.7	3929.8	3941.7
67.5°	3967.8	4002.8	4023.6	4028.6	4028.9	4015.7	3997.9	3960.5	3934.5	3916.6	3929.2
70°	3664.0	3745.9	3781.6	3763.1	3773.6	3773.6	3773.0	3738.6	3725.8	3708.6	3702.0
72.5°	3046.5	3103.3	3148.6	3124.4	3127.4	3149.9	3144.6	3148.2	3111.2	3107.3	3046.2
75°	2182.4	2200.5	2185.3	2202.5	2110.0	2077.0	2020.9	1939.0	1917.5	1883.5	1781.8
77.5°	1159.4	1138.9	1098.3	1095.0	1057.0	1027.6	991.3	967.5	907.4	874.1	797.8
80°	818.9	828.8	844.3	853.6	862.2	868.8	855.2	817.3	767.1	710.9	657.8
82.5°	782.3	795.8	805.1	809.7	806.4	795.8	764.8	728.4	661.4	612.9	555.4
85°	493.3	504.2	485.4	481.4	489.7	423.0	386.3	356.6	288.9	268.8	237.4
87.5°	132.4	139.7	140.0	135.7	133.1	117.2	103.7	91.8	75.9	71.3	57.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4
2.5°	529.7	529.3	529.3	528.3	527.7	527.3	527.0	526.0	525.4	525.4	525.0
5°	542.2	541.5	540.6	540.2	538.9	538.2	536.9	536.3	535.3	534.6	534.3
7.5°	560.0	558.4	556.4	556.7	554.8	553.8	553.1	551.8	550.8	549.8	549.5
10°	583.8	583.5	581.5	582.2	578.5	580.2	576.9	577.2	575.2	573.2	572.9
12.5°	614.2	613.9	611.9	609.6	608.9	609.2	607.3	607.6	605.3	604.6	604.0
15°	643.2	642.6	641.6	639.9	639.0	638.6	638.0	637.3	635.3	635.3	633.0
17.5°	668.3	668.7	667.4	666.0	665.4	664.4	664.1	664.1	662.4	660.8	661.1
20°	690.5	691.1	691.1	690.1	690.5	689.8	689.5	690.1	688.5	687.8	686.8
22.5°	715.2	715.2	715.6	716.2	717.2	717.5	717.5	716.9	715.9	715.6	713.6
25°	749.6	748.3	749.9	750.6	750.6	752.2	751.6	751.9	752.2	751.2	750.2
27.5°	792.8	791.5	794.8	797.1	796.8	797.8	799.8	797.5	798.8	799.8	797.5
30°	846.0	849.3	851.6	853.3	852.6	855.6	856.6	856.2	855.2	856.9	856.9
32.5°	913.7	912.0	918.0	921.6	921.9	921.3	922.9	924.9	923.3	925.9	924.6
35°	994.3	995.3	996.6	1000.5	1002.2	999.5	1002.2	1004.5	1003.8	1004.2	1005.5
37.5°	1098.3	1099.9	1098.6	1098.9	1098.3	1110.8	1112.8	1114.8	1112.5	1110.5	1116.4
40°	1242.6	1242.6	1242.2	1246.5	1239.3	1247.2	1244.9	1250.5	1256.4	1253.1	1262.1
42.5°	1384.6	1392.5	1393.2	1386.9	1392.2	1400.8	1400.8	1404.4	1409.7	1404.4	1413.0
45°	1547.4	1557.3	1555.6	1566.2	1558.3	1568.2	1569.8	1565.2	1576.8	1578.1	1574.8
47.5°	1725.0	1727.0	1727.3	1731.0	1732.6	1740.5	1740.2	1748.8	1746.2	1732.9	1737.6
50°	1877.2	1882.2	1884.8	1887.1	1895.4	1901.0	1908.6	1909.9	1908.0	1904.0	1900.4
52.5°	2029.5	2041.4	2049.0	2069.4	2082.3	2092.5	2105.1	2109.7	2107.4	2106.4	2091.9
55°	2233.2	2261.6	2305.5	2333.9	2365.0	2383.1	2397.7	2404.9	2399.6	2402.3	2372.2
57.5°	2616.9	2683.6	2721.9	2770.5	2825.3	2848.1	2854.3	2880.1	2851.7	2823.3	2800.5
60°	3187.2	3248.6	3318.3	3368.1	3386.6	3449.7	3420.0	3386.6	3356.3	3297.5	3231.1
62.5°	3702.0	3781.2	3816.9	3863.5	3850.9	3845.6	3825.8	3772.6	3707.6	3620.1	3531.6
65°	3955.9	4000.5	4022.6	4037.8	4023.6	3987.0	3921.6	3843.0	3749.9	3636.6	3520.4
67°	3966.2	3986.6	3993.9	3979.4	3947.7	3890.5	3808.0	3696.7	3582.1	3452.3	3321.6
67.5°	3949.3	3962.8	3966.5	3943.7	3906.1	3844.3	3756.1	3637.3	3515.4	3380.7	3249.3
70°	3719.5	3709.6	3677.5	3646.2	3528.6	3445.7	3292.2	3165.4	2996.3	2872.5	2732.2
72.5°	3021.8	2976.5	2945.5	2806.8	2664.8	2582.6	2417.5	2265.9	2111.7	1993.8	1907.6
75°	1696.3	1663.3	1577.1	1503.8	1386.6	1279.2	1202.3	1105.9	1013.4	958.6	918.3
77.5°	766.4	672.0	606.9	524.7	424.0	340.8	252.9	233.8	199.4	190.9	172.0
80°	598.0	530.3	445.1	351.0	247.7	166.4	122.2	103.7	97.4	93.4	91.5
82.5°	498.9	411.1	346.1	245.7	157.2	105.7	79.6	72.0	67.4	64.1	61.1
85°	213.3	168.7	139.0	99.4	70.7	55.8	48.9	44.6	40.3	36.7	34.3
87.5°	49.9	38.3	35.0	29.7	28.1	27.7	27.4	26.1	24.4	22.5	20.1
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: P145315

CATALOG NUMBER: VPL-F02-LED-E1-GL3

CANDELA DISTRIBUTION (continued):

	86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°
0°	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4
2.5°	524.7	524.4	523.7	522.7	522.7	521.4	517.1	514.1	510.8	508.9	506.9
5°	533.6	533.3	531.6	530.6	530.0	527.3	520.1	514.5	508.5	504.2	500.9
7.5°	548.5	547.5	546.2	545.5	543.5	540.2	529.7	521.7	513.1	506.2	500.6
10°	572.6	570.9	569.0	567.0	567.6	562.3	550.1	538.6	526.0	515.1	507.5
12.5°	602.0	602.0	601.0	599.7	597.3	591.4	574.9	561.4	546.2	532.6	527.0
15°	633.0	631.4	629.7	627.7	627.4	619.5	604.6	589.1	573.2	561.7	555.1
17.5°	658.4	659.1	656.8	656.1	655.5	647.5	631.7	617.8	606.3	594.0	583.5
20°	685.5	684.2	683.5	682.5	682.2	675.6	663.1	654.5	644.2	625.7	598.0
22.5°	714.6	712.9	713.6	711.6	711.3	706.6	697.4	694.8	679.6	640.6	592.4
25°	752.2	749.2	750.2	750.2	750.6	746.3	745.3	740.7	702.4	637.0	569.9
27.5°	797.1	798.4	798.4	798.1	795.8	797.1	801.7	785.9	710.3	617.8	536.3
30°	855.6	856.2	856.9	859.2	854.3	862.8	868.5	817.9	704.3	591.4	494.0
32.5°	926.6	923.9	925.2	926.6	928.2	937.1	933.8	834.1	686.8	555.4	441.5
35°	1004.8	1009.8	1011.1	1014.1	1017.4	1030.9	992.9	837.4	660.1	507.2	374.5
37.5°	1121.4	1129.3	1129.3	1139.9	1133.6	1150.1	1045.8	829.5	619.5	440.2	298.8
40°	1268.3	1272.0	1275.6	1276.9	1273.6	1271.6	1080.4	810.0	562.3	356.0	218.6
42.5°	1418.3	1416.9	1417.3	1419.6	1410.7	1373.3	1101.9	776.0	491.4	265.8	156.8
45°	1579.7	1574.1	1572.5	1567.8	1559.9	1481.3	1114.1	728.1	397.9	186.9	123.2
47.5°	1736.9	1730.0	1719.4	1706.5	1691.3	1568.2	1112.8	666.0	305.1	133.7	108.6
50°	1898.0	1885.8	1863.0	1850.5	1824.7	1654.4	1105.2	597.0	219.6	110.6	101.7
52.5°	2082.3	2060.5	2039.4	2014.3	1971.7	1760.3	1093.7	519.4	160.2	101.4	97.1
55°	2357.0	2321.4	2286.7	2234.5	2193.3	1902.3	1074.2	435.9	126.5	97.7	94.4
57.5°	2735.8	2675.0	2631.1	2560.8	2494.7	2098.8	1053.4	359.9	112.9	96.8	93.1
60°	3162.1	3070.6	2988.7	2902.2	2826.9	2344.2	1042.5	300.5	110.0	97.7	93.4
62.5°	3429.6	3321.6	3219.2	3113.5	3005.2	2461.4	995.3	259.5	111.3	102.0	96.1
65°	3395.9	3276.7	3165.4	3036.6	2934.6	2350.8	875.1	219.6	113.6	109.6	103.4
67°	3168.7	3053.1	2926.3	2800.2	2701.1	2140.4	738.7	184.9	116.2	118.2	111.3
67.5°	3107.9	2977.8	2850.0	2734.1	2626.8	2075.4	703.0	176.3	116.9	120.5	113.9
70°	2591.8	2488.8	2339.2	2253.4	2175.8	1682.4	524.4	137.0	118.9	130.8	126.5
72.5°	1813.5	1713.8	1635.5	1588.6	1543.4	1222.4	368.8	109.3	115.9	136.4	132.1
75°	916.0	893.2	865.8	850.6	851.3	710.6	222.2	93.1	109.0	130.8	119.9
77.5°	181.0	176.3	178.3	195.2	192.2	218.9	110.3	78.9	92.8	100.7	86.2
80°	87.5	84.5	81.9	81.2	79.6	76.3	69.3	65.7	75.3	66.4	57.1
82.5°	56.8	53.5	52.2	49.5	49.9	54.2	60.4	63.1	61.1	45.9	38.6
85°	32.0	31.7	31.0	31.7	33.0	43.3	64.7	59.1	49.2	32.4	29.1
87.5°	19.2	18.2	18.5	18.8	19.5	32.0	51.2	42.6	31.4	16.8	17.2
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: P145315

CATALOG NUMBER: VPL-F02-LED-E1-GL3

CANDELA DISTRIBUTION (continued):

	155°	165°	175°	180°
0°	521.4	521.4	521.4	521.4
2.5°	506.5	505.2	505.2	504.9
5°	498.3	496.3	496.0	496.0
7.5°	497.0	494.3	494.0	493.0
10°	502.9	501.9	502.2	501.3
12.5°	521.7	523.1	524.4	524.4
15°	550.5	549.5	551.1	549.5
17.5°	571.6	563.0	561.0	560.0
20°	572.3	554.4	548.5	547.5
22.5°	551.8	525.4	515.5	513.8
25°	517.1	483.8	471.2	469.9
27.5°	473.5	436.2	417.7	417.1
30°	421.0	376.8	353.3	349.7
32.5°	357.0	304.5	279.7	271.8
35°	283.0	229.2	206.1	205.4
37.5°	211.3	169.4	154.5	153.9
40°	154.9	133.1	127.5	126.5
42.5°	126.5	117.6	115.2	114.3
45°	113.3	109.6	108.3	107.3
47.5°	105.3	103.0	102.0	102.0
50°	99.1	98.4	97.7	97.7
52.5°	94.8	94.4	93.8	93.4
55°	91.1	89.8	90.1	89.8
57.5°	88.8	86.8	86.8	86.8
60°	87.5	83.9	83.9	84.2
62.5°	87.8	82.2	81.9	81.9
65°	90.5	81.2	79.3	79.6
67°	93.8	80.2	76.3	75.9
67.5°	94.8	79.6	75.3	75.0
70°	98.7	77.6	70.3	69.7
72.5°	99.4	74.6	65.4	64.7
75°	92.5	70.7	61.4	59.8
77.5°	72.0	60.8	55.5	55.5
80°	50.5	46.6	39.6	39.3
82.5°	37.0	35.0	29.1	28.4
85°	27.1	25.4	21.5	21.5
87.5°	16.8	16.2	13.9	13.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)