

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: P145925

Luminaire Tested: **VPL-F03-LED-E1-CPL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145925
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-F03-LED-E1-CPL
Description: VALET LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - 90° FORWARD THROW PERIMETER LEFT
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6670.5 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

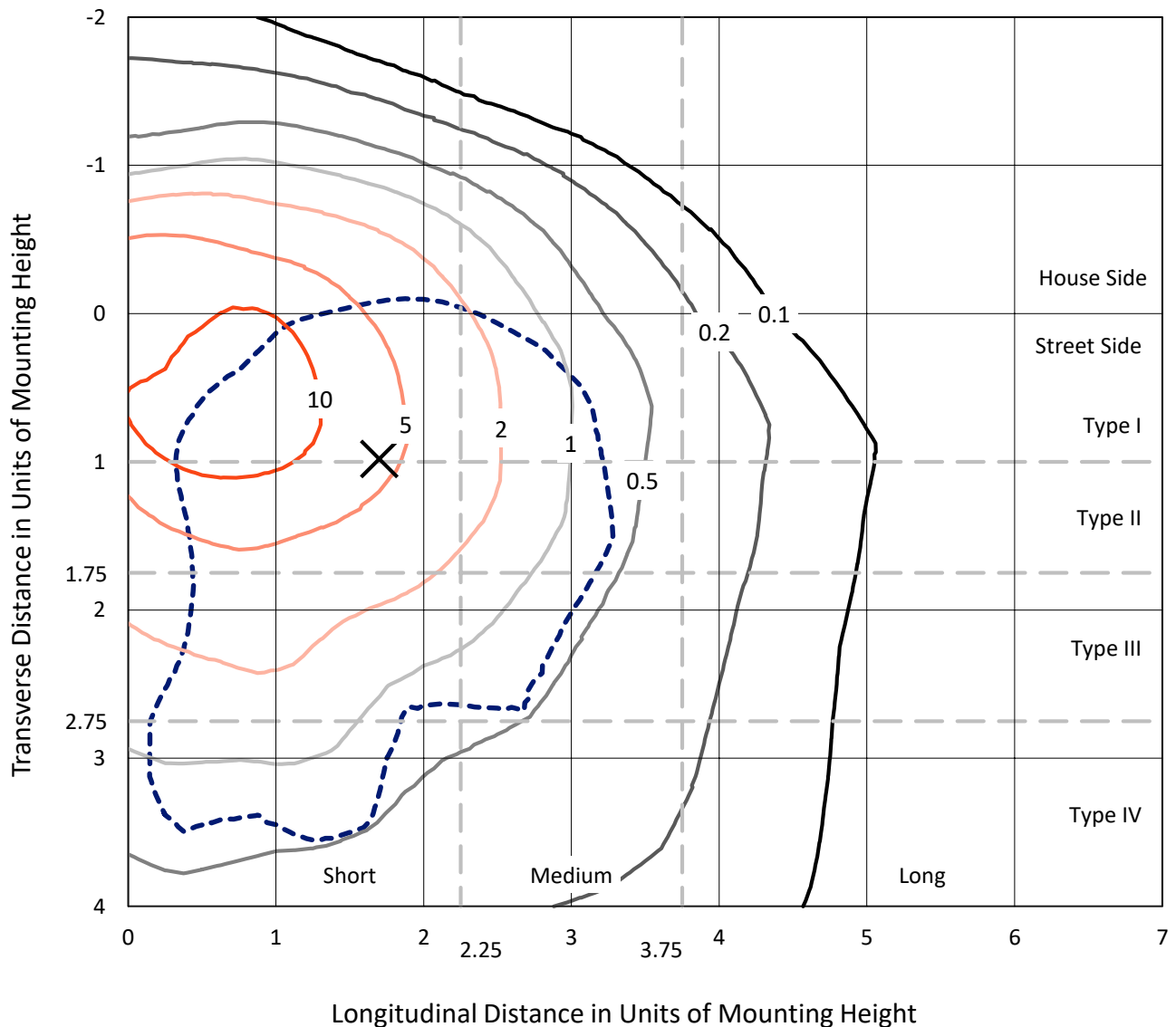
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

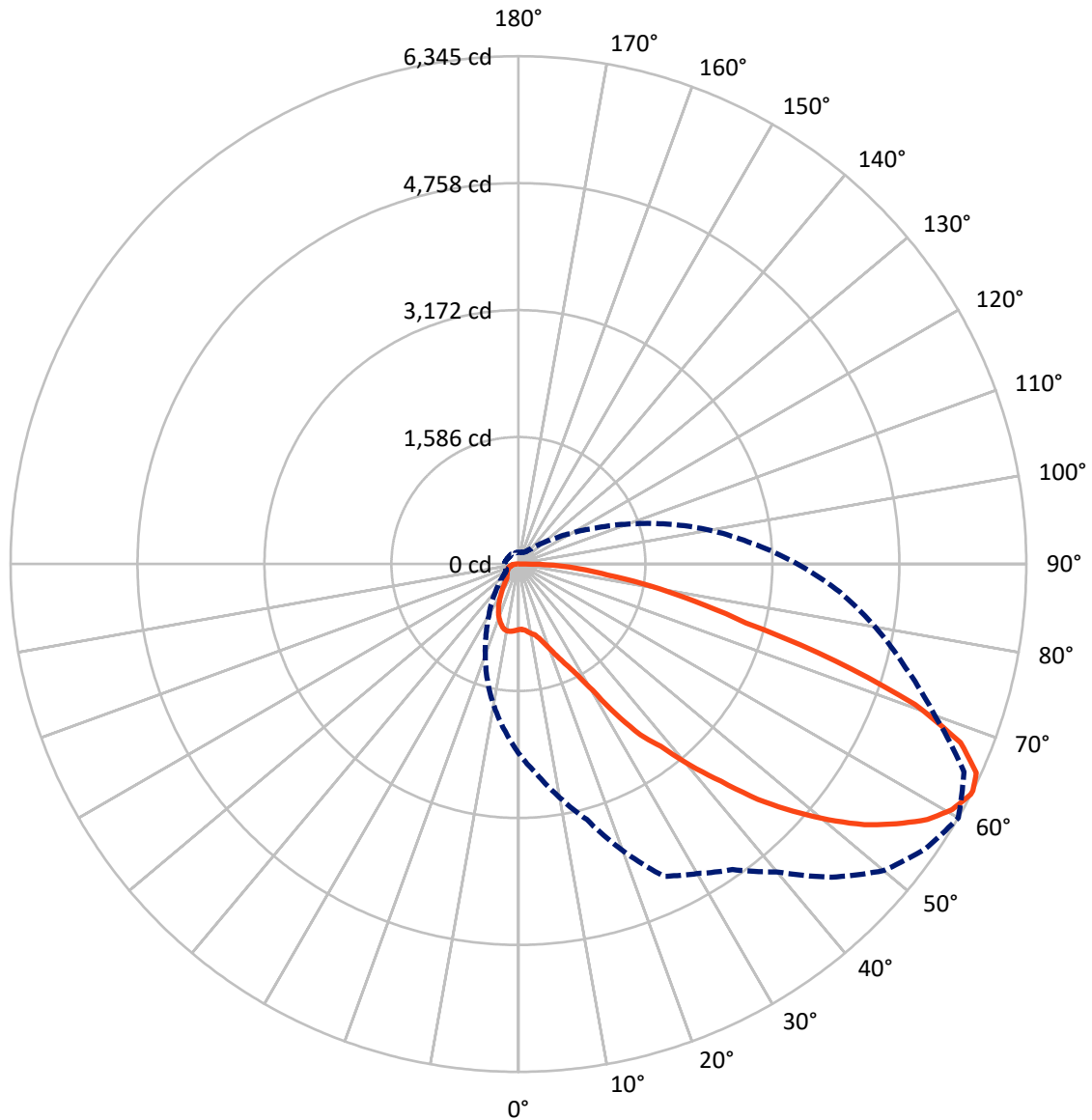
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1396.3	0.0	1396.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	5274.2	0.0	5274.2
	% Fixture	79.1	0.0	79.1
Total	Lumens	6670.5	0.0	6670.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.5	1.2
10°-20°	251.1	3.8
20°-30°	444.1	6.7
30°-40°	701.1	10.5
40°-50°	1031.0	15.5
50°-60°	1358.0	20.4
60°-70°	1513.7	22.7
70°-80°	994.5	14.9
80°-90°	296.6	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°	6670.5	100.0
0°-180°	6670.5	100.0

Coefficient of Utilization



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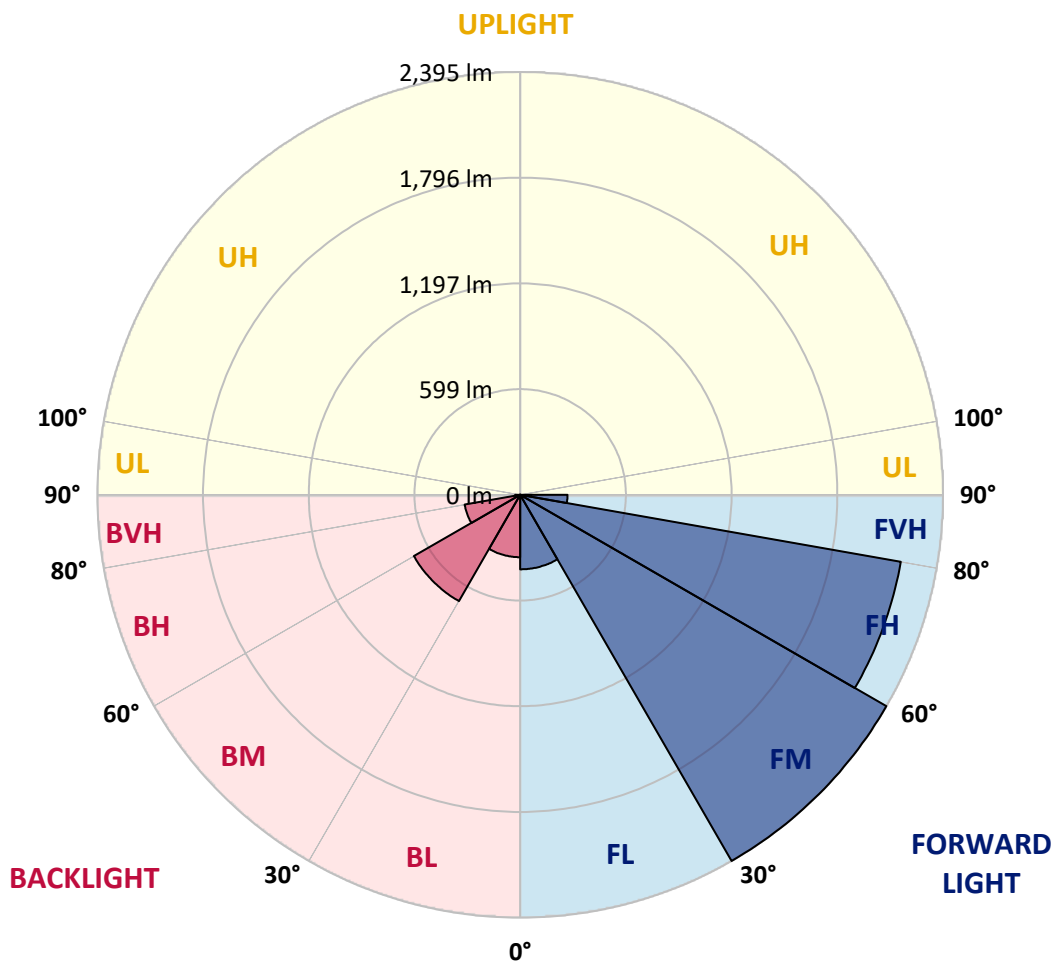
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	422.2	6.3			
FM	(30°-60°)	2394.9	35.9			
FH	(60°-80°)	2189.1	32.8			G2/5000
FVH	(80°-90°)	268.0	4.0			G3/500
BL	(0°-30°)	353.5	5.3	B1/500		
BM	(30°-60°)	695.2	10.4	B1/1000		
BH	(60°-80°)	319.1	4.8	B1/500		G1/500
BVH	(80°-90°)	28.5	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3
2.5°	818.3	818.8	817.3	816.8	815.8	816.3	816.3	815.3	815.3	815.8	814.3
5°	814.3	815.3	814.8	815.8	816.8	818.3	819.7	821.2	822.7	824.7	825.2
7.5°	809.8	812.8	813.3	816.3	819.7	823.7	828.7	834.1	841.5	843.5	848.0
10°	812.3	817.8	820.7	826.7	832.1	839.6	848.5	853.9	863.3	866.8	873.2
12.5°	831.6	835.6	839.6	846.5	854.4	863.8	873.7	882.2	892.1	895.5	898.0
15°	868.3	872.2	876.7	883.6	892.1	903.5	917.8	928.2	940.1	949.0	955.5
17.5°	919.3	919.3	929.7	931.7	948.0	965.4	983.2	1003.5	1015.9	1023.3	1035.2
20°	992.6	992.6	1006.5	1012.9	1026.8	1049.1	1073.3	1095.6	1113.5	1128.3	1139.2
22.5°	1119.4	1114.0	1125.9	1124.4	1141.2	1174.4	1198.2	1210.5	1234.3	1243.2	1257.6
25°	1266.5	1285.8	1298.7	1298.7	1305.7	1339.8	1359.6	1369.1	1390.8	1384.4	1399.3
27.5°	1446.8	1498.8	1546.9	1566.7	1557.3	1594.9	1601.8	1610.8	1608.3	1592.9	1588.5
30°	1624.1	1715.8	1790.6	1836.1	1888.6	1961.4	1961.4	1973.3	1947.6	1905.0	1879.7
32.5°	1747.0	1864.9	1979.3	2073.9	2163.0	2274.5	2321.5	2386.9	2397.8	2414.2	2357.7
35°	1848.0	2013.5	2136.3	2278.4	2387.4	2500.3	2625.7	2739.1	2814.4	2802.0	2779.7
37.5°	1917.4	2129.9	2301.2	2468.2	2634.1	2763.4	2882.2	3030.3	3174.5	3203.2	3142.8
40°	1965.9	2212.1	2447.8	2652.9	2861.4	3055.6	3200.2	3359.2	3585.1	3680.7	3631.2
42.5°	1989.2	2276.5	2539.5	2800.5	3064.5	3309.7	3491.0	3708.9	3976.9	4140.3	4085.9
45°	1999.1	2316.1	2613.8	2911.0	3228.0	3530.6	3764.4	4011.6	4313.2	4575.7	4585.6
47.5°	1996.6	2337.4	2664.8	2989.7	3356.3	3708.4	4022.0	4302.3	4644.1	4920.0	5022.5
50°	1989.7	2344.8	2695.5	3037.3	3437.0	3838.7	4191.9	4525.2	4907.1	5256.3	5412.3
52.5°	1989.2	2346.3	2710.9	3063.5	3484.5	3918.4	4298.3	4692.1	5110.7	5475.7	5718.9
55°	2001.1	2355.2	2727.7	3081.8	3510.3	3963.5	4358.3	4796.6	5199.3	5613.9	5927.9
57.5°	2049.1	2396.8	2767.8	3113.1	3539.0	3999.2	4404.8	4826.8	5225.6	5671.4	6049.3
60°	2154.6	2474.6	2837.7	3170.5	3613.8	4092.8	4448.9	4784.2	5176.0	5655.0	6066.6
62.5°	2319.1	2599.4	2935.2	3276.5	3765.9	4270.6	4467.2	4686.7	5053.7	5560.9	5991.8
63°	2361.2	2632.6	2961.0	3305.7	3810.0	4304.3	4465.8	4660.9	5020.0	5533.2	5958.1
65°	2537.0	2786.1	3080.9	3445.4	4010.6	4411.3	4411.8	4509.3	4848.1	5380.1	5820.0
67.5°	2801.5	3039.3	3267.1	3629.7	4232.5	4464.8	4251.8	4178.0	4477.6	5056.2	5469.3
70°	2977.8	3271.6	3399.3	3678.2	4262.7	4399.9	3998.7	3752.5	4001.2	4484.6	4851.6
72.5°	2982.3	3317.1	3354.3	3471.2	3979.9	4089.8	3562.8	3229.5	3379.0	3784.7	3977.9
75°	2663.8	3084.8	3008.5	2965.5	3240.8	3287.9	2881.7	2743.1	2934.7	3174.5	3077.9
77.5°	1980.3	2540.0	2384.9	2201.7	2301.7	2308.7	2321.5	2583.1	2818.3	2916.4	2775.7
80°	1228.9	1865.9	1747.0	1444.8	1483.5	1597.4	1939.2	2401.3	2658.9	2729.2	2447.8
82.5°	741.0	1372.5	1309.1	1102.6	1151.1	1434.9	1812.9	1940.6	2027.3	2020.9	1730.1
85°	542.9	932.2	1018.4	1033.7	1206.1	1393.3	1385.4	1290.8	1237.8	1089.2	929.7
87.5°	170.9	481.0	570.6	665.2	728.6	689.5	678.1	586.0	419.5	354.6	389.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3
2.5°	814.3	816.3	817.3	816.8	817.3	817.3	820.2	819.3	820.2	819.7	822.7
5°	826.7	829.7	832.1	832.1	832.6	833.6	837.6	837.6	839.6	843.5	845.5
7.5°	851.0	854.9	855.4	856.4	859.4	857.9	860.4	861.4	862.8	864.8	867.3
10°	876.2	881.7	881.7	881.2	881.7	877.7	879.2	876.2	876.7	879.7	882.7
12.5°	904.4	907.4	905.4	903.9	903.9	896.5	895.5	891.6	889.6	890.1	891.1
15°	960.9	958.4	957.9	955.5	946.5	941.1	937.1	924.8	918.3	914.8	908.9
17.5°	1036.2	1037.7	1035.2	1032.7	1019.9	1001.5	993.6	980.2	971.3	962.4	951.5
20°	1146.2	1136.3	1135.3	1127.3	1109.5	1083.7	1064.4	1042.6	1030.3	1017.4	1006.0
22.5°	1267.5	1257.1	1250.2	1234.8	1208.6	1175.9	1143.7	1115.9	1097.1	1087.7	1079.8
25°	1402.2	1396.3	1384.9	1345.8	1325.0	1287.3	1252.2	1224.9	1203.6	1195.7	1181.8
27.5°	1563.7	1568.2	1546.9	1510.2	1484.0	1431.0	1400.8	1353.7	1335.9	1307.1	1289.3
30°	1857.9	1829.2	1793.0	1737.1	1684.1	1612.7	1562.7	1513.7	1487.4	1448.8	1401.2
32.5°	2338.9	2229.4	2132.3	2013.5	1901.0	1809.9	1737.6	1675.7	1635.5	1571.6	1490.9
35°	2726.7	2621.2	2460.7	2287.9	2140.3	2023.4	1932.2	1873.8	1793.5	1691.5	1574.6
37.5°	3011.0	2889.7	2739.6	2607.3	2446.4	2316.1	2192.8	2071.4	1958.5	1803.9	1654.8
40°	3472.7	3308.2	3061.0	2905.0	2773.3	2596.9	2481.5	2318.1	2146.2	1947.1	1731.1
42.5°	3929.3	3711.4	3487.5	3308.2	3121.0	2929.8	2771.3	2551.9	2323.5	2065.5	1799.5
45°	4459.8	4192.8	3900.1	3649.5	3457.3	3232.4	3029.3	2759.9	2468.6	2162.5	1858.9
47.5°	4877.9	4613.4	4283.0	4030.4	3771.3	3517.7	3254.2	2921.9	2576.6	2241.8	1914.4
50°	5278.6	5023.5	4672.3	4362.2	4064.6	3758.4	3440.0	3036.8	2661.3	2303.7	1958.5
52.5°	5638.2	5411.3	5031.9	4661.4	4328.6	3975.9	3581.1	3144.3	2742.6	2367.6	1993.1
55°	5942.8	5730.3	5390.0	4928.9	4551.0	4160.6	3714.4	3242.3	2828.2	2434.5	2018.4
57.5°	6147.4	6024.5	5661.0	5164.2	4733.7	4318.2	3814.9	3340.9	2908.5	2476.1	2029.3
60°	6242.5	6226.1	5918.5	5376.6	4896.2	4441.0	3941.7	3445.4	2961.5	2494.9	2014.0
62.5°	6222.6	6339.5	6114.7	5522.3	4999.7	4517.8	4022.9	3490.5	2948.1	2449.3	1946.1
63°	6204.3	6344.5	6142.4	5536.6	5008.1	4525.2	4030.9	3485.0	2935.7	2429.0	1922.8
65°	6070.1	6286.0	6149.3	5510.9	4969.5	4503.9	3995.2	3399.3	2812.4	2301.2	1791.1
67.5°	5741.2	5957.6	5881.9	5227.1	4719.4	4275.1	3746.1	3107.6	2510.3	2029.8	1546.9
70°	5062.1	5255.8	5165.1	4589.1	4117.6	3802.5	3299.8	2584.6	2045.2	1631.6	1177.4
72.5°	4004.1	4140.3	4160.2	3702.5	3341.4	3152.2	2658.4	1949.6	1493.9	1136.3	764.3
75°	2965.0	2933.3	2939.7	2684.1	2537.0	2457.3	1987.2	1337.4	1006.5	694.4	453.2
77.5°	2491.9	2264.1	2069.9	1999.1	1827.7	1778.2	1310.6	820.7	587.4	415.6	258.1
80°	2026.3	1681.1	1398.8	1273.5	1206.6	1216.5	725.1	437.4	307.6	226.4	161.5
82.5°	1385.4	1122.9	885.6	769.2	757.3	768.7	376.9	214.5	162.5	130.3	101.5
85°	819.3	771.2	688.5	611.2	584.5	551.8	280.3	153.5	83.7	69.3	57.0
87.5°	354.2	434.9	445.3	443.3	412.6	331.4	103.0	39.6	35.2	17.8	14.4
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3
2.5°	822.7	823.2	822.2	823.2	826.7	826.7	826.2	827.2	827.7	830.6	829.7
5°	847.5	848.0	848.5	851.9	854.4	857.4	856.4	857.4	859.4	859.9	860.9
7.5°	870.3	873.2	877.2	878.7	883.1	884.1	888.6	889.1	890.1	888.1	886.1
10°	886.1	889.1	894.0	896.5	904.4	905.4	908.9	909.9	911.9	910.4	908.9
12.5°	894.0	896.5	902.0	906.9	917.8	921.3	927.2	930.7	933.2	931.7	926.7
15°	910.4	909.9	912.9	916.8	926.7	933.2	941.6	946.1	949.0	946.5	940.1
17.5°	948.0	941.1	941.1	938.6	946.1	947.5	951.0	953.5	952.5	945.1	934.7
20°	1000.0	989.6	983.2	977.3	974.8	962.4	956.0	947.0	939.1	925.7	913.9
22.5°	1067.4	1060.0	1045.1	1031.7	1012.9	987.7	960.4	937.1	919.8	901.5	881.2
25°	1169.4	1152.6	1131.3	1099.6	1075.3	1030.8	985.2	941.1	903.9	875.2	841.0
27.5°	1265.5	1229.9	1189.7	1140.2	1095.6	1036.2	978.2	927.2	878.7	832.6	793.5
30°	1345.8	1283.9	1218.5	1149.1	1085.7	1013.9	946.5	888.6	833.6	779.1	742.0
32.5°	1406.2	1317.0	1229.9	1141.2	1062.9	978.7	901.5	839.6	777.1	719.7	676.6
35°	1460.7	1340.3	1226.4	1119.9	1027.3	934.2	851.0	781.6	713.3	651.8	602.3
37.5°	1499.8	1348.2	1211.5	1089.2	981.7	879.7	789.5	715.7	642.4	580.0	525.5
40°	1530.0	1344.3	1183.3	1042.1	919.3	813.3	725.1	647.9	574.6	512.2	455.2
42.5°	1550.3	1329.4	1140.7	988.6	867.3	756.3	670.2	588.9	515.6	450.2	387.3
45°	1576.6	1323.5	1114.5	948.5	820.2	708.3	616.2	536.9	460.6	392.3	332.4
47.5°	1601.4	1320.0	1093.2	915.3	777.6	664.7	573.6	490.4	413.6	346.7	292.2
50°	1616.2	1314.6	1070.9	875.2	730.1	620.1	533.0	448.8	371.5	307.6	259.0
52.5°	1620.7	1303.7	1041.6	829.7	689.0	582.0	491.4	407.1	332.9	275.4	230.3
55°	1617.2	1282.4	1002.0	792.5	646.9	539.9	449.3	367.5	300.2	246.2	210.0
57.5°	1600.4	1239.8	951.0	745.4	598.8	486.9	397.7	322.9	263.0	219.9	192.2
60°	1562.7	1178.4	888.6	679.6	530.0	424.0	339.8	275.4	224.9	193.7	175.3
62.5°	1480.5	1089.7	798.0	586.5	437.9	340.3	267.0	219.4	185.2	168.9	158.0
63°	1456.2	1059.0	771.2	561.7	422.0	321.5	250.6	207.5	176.8	163.5	154.5
65°	1328.4	917.3	651.8	451.7	326.9	243.7	191.2	163.0	146.6	141.7	139.2
67.5°	1088.7	713.7	458.7	303.1	219.4	168.4	141.2	130.3	124.3	123.8	125.3
70°	769.2	473.5	283.8	194.2	151.1	127.3	116.9	111.9	109.0	110.0	112.9
72.5°	500.3	277.9	179.3	142.2	122.8	111.9	104.5	103.0	102.0	101.0	102.0
75°	264.5	173.9	135.7	118.9	107.5	98.6	93.6	91.6	92.1	92.1	92.1
77.5°	163.9	132.2	115.9	105.0	96.1	87.2	82.2	80.7	81.2	82.2	82.7
80°	125.8	115.4	102.0	94.1	81.2	73.8	71.3	70.8	71.8	71.8	73.3
82.5°	92.1	89.2	84.2	74.3	64.4	59.4	58.9	60.9	58.9	58.4	59.4
85°	54.0	50.5	55.0	47.1	43.1	40.1	42.1	46.1	48.0	45.6	44.6
87.5°	17.3	11.9	17.3	19.3	17.3	14.9	18.8	22.3	22.8	21.8	24.8
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: P145925

CATALOG NUMBER: VPL-F03-LED-E1-CPL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3
2.5°	829.2	832.6	829.2	830.6	830.1	829.2	830.6	828.7	827.7	830.6	830.1
5°	860.4	860.9	856.4	856.9	856.4	852.4	852.4	850.5	848.0	848.5	847.5
7.5°	885.6	884.6	881.2	879.7	875.2	872.2	870.3	867.3	865.3	863.3	862.3
10°	904.9	902.5	900.0	895.5	891.1	888.6	883.1	878.7	877.2	874.2	872.2
12.5°	921.8	917.3	913.4	907.9	902.5	898.5	892.1	888.6	886.1	882.2	879.2
15°	931.2	922.8	915.3	906.9	901.0	895.0	887.6	886.1	882.7	878.7	873.2
17.5°	919.8	907.9	894.0	885.1	876.2	867.3	859.9	859.9	858.4	853.9	844.5
20°	896.5	878.7	862.3	848.0	839.1	826.2	821.7	814.8	809.8	801.9	790.0
22.5°	858.4	839.6	818.3	803.9	788.5	774.2	765.3	754.4	750.4	737.5	721.7
25°	815.8	788.5	765.8	746.9	725.6	708.8	696.4	681.6	671.6	659.3	639.5
27.5°	765.3	737.0	711.3	690.5	668.2	644.9	622.1	604.8	586.9	572.6	561.2
30°	710.8	681.6	649.9	625.6	599.8	570.6	551.8	528.5	514.6	498.8	483.9
32.5°	639.5	613.7	576.5	548.3	516.6	493.8	478.5	456.2	439.8	426.5	418.0
35°	561.2	522.6	485.4	464.1	442.3	424.0	402.7	385.4	374.5	360.6	353.2
37.5°	476.0	430.9	399.2	380.4	358.1	349.2	335.8	325.4	315.5	306.1	300.2
40°	399.7	358.1	329.4	313.5	298.7	288.8	280.3	275.9	269.5	262.0	257.6
42.5°	336.3	303.1	274.9	260.0	248.6	247.7	242.2	238.7	236.3	231.8	224.9
45°	286.8	256.6	232.3	220.4	215.5	216.0	216.0	213.0	213.0	211.5	207.0
47.5°	253.6	226.4	208.5	200.6	198.6	199.1	197.6	196.6	197.1	196.6	194.2
50°	227.8	204.6	189.7	186.7	186.2	185.7	183.8	182.3	181.8	182.8	182.3
52.5°	201.6	182.3	173.9	172.9	173.4	173.4	172.9	172.4	173.4	174.4	172.9
55°	186.7	172.9	167.4	167.4	167.4	167.4	166.9	166.4	167.9	169.4	166.9
57.5°	172.9	163.0	161.0	161.0	161.0	160.0	160.0	160.5	162.5	165.4	162.5
60°	162.5	157.5	157.5	158.0	157.5	155.5	154.0	154.0	156.5	160.5	158.0
62.5°	152.6	150.1	151.1	150.6	149.6	147.1	145.1	145.1	148.1	152.1	153.1
63°	150.1	148.1	149.1	148.6	147.6	145.6	143.6	143.6	146.1	150.1	151.6
65°	139.2	139.7	140.2	140.7	140.2	139.7	137.2	136.2	138.2	141.2	143.1
67.5°	126.3	127.3	128.3	130.8	129.8	129.8	128.3	127.3	127.8	129.3	130.8
70°	114.4	115.4	116.9	117.9	118.4	118.9	117.9	116.4	116.9	117.4	118.4
72.5°	103.0	104.0	105.0	107.0	107.0	107.0	106.0	105.0	105.5	106.5	107.5
75°	92.6	93.1	94.1	95.6	96.1	95.1	95.1	94.1	94.6	96.1	97.1
77.5°	82.2	81.2	81.7	82.7	84.2	84.2	84.7	84.2	85.2	86.2	87.2
80°	70.3	69.3	68.4	68.8	70.8	73.3	75.8	75.8	77.3	77.8	79.3
82.5°	56.0	55.0	54.5	56.0	55.5	58.9	64.4	67.4	69.3	71.3	72.3
85°	43.6	41.1	42.1	42.1	41.1	46.6	51.5	55.5	56.0	58.9	59.4
87.5°	25.8	24.8	23.8	22.8	26.3	31.7	36.2	37.6	38.6	40.1	41.6
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3
2.5°	826.2	830.1	829.2	828.7	829.2	828.7	827.2	827.7	826.7	827.2	826.2
5°	842.0	844.0	842.5	840.1	840.1	836.6	834.1	832.1	829.7	828.7	826.7
7.5°	857.4	855.9	853.9	849.5	847.0	842.5	839.1	835.1	832.6	829.7	826.2
10°	866.8	863.8	859.9	854.4	847.5	843.5	838.6	832.6	829.7	828.2	824.7
12.5°	871.3	863.3	856.9	847.0	837.1	829.7	824.2	818.3	816.8	814.8	812.3
15°	860.9	849.5	833.1	819.7	806.9	796.5	792.0	785.6	784.1	783.6	783.1
17.5°	825.7	808.4	792.5	774.7	763.3	753.9	749.9	748.4	745.9	745.0	745.4
20°	769.2	754.4	738.5	732.6	719.2	716.7	710.8	706.8	702.4	700.9	698.4
22.5°	703.3	685.0	675.1	670.7	665.2	652.3	649.4	645.4	639.5	635.0	634.0
25°	626.6	611.7	611.2	600.8	596.4	589.4	581.5	576.5	573.1	567.6	563.7
27.5°	548.3	542.9	533.5	525.5	522.6	518.6	506.7	504.2	500.3	495.8	491.4
30°	475.5	471.5	462.6	455.2	450.7	442.8	431.4	432.4	424.5	418.5	414.6
32.5°	404.7	401.7	393.3	391.3	376.9	373.0	361.1	352.2	344.2	338.3	333.3
35°	340.8	332.9	333.3	324.4	316.5	304.6	292.2	280.8	274.4	271.4	267.0
37.5°	294.7	287.3	279.9	269.9	261.0	252.6	245.2	241.7	237.8	238.7	239.2
40°	253.1	247.7	242.2	235.3	229.8	226.4	224.4	224.4	224.9	227.3	229.3
42.5°	223.4	218.9	216.0	213.5	214.5	214.5	216.0	218.4	220.9	224.4	226.4
45°	203.6	201.1	200.1	201.1	204.1	206.5	210.0	214.0	217.9	221.4	222.9
47.5°	191.7	190.2	190.2	192.7	197.1	201.1	206.5	210.5	215.0	217.9	218.9
50°	178.8	178.3	178.3	180.3	184.3	189.2	194.7	198.6	202.6	205.1	206.1
52.5°	171.4	169.9	169.4	171.9	175.3	180.3	185.7	189.7	192.7	194.7	195.2
55°	164.9	163.5	162.5	165.4	169.4	173.9	180.3	184.8	187.7	190.2	192.2
57.5°	159.5	158.0	157.0	160.5	164.4	169.9	175.3	180.3	184.3	187.2	189.2
60°	155.0	153.1	152.1	156.0	160.0	165.4	170.9	176.3	181.8	185.2	186.2
62.5°	149.6	148.1	146.6	149.1	151.1	155.0	160.0	165.4	170.4	173.9	173.9
63°	148.1	147.6	145.6	147.6	149.6	153.1	158.0	163.0	167.9	171.9	171.4
65°	141.7	141.7	140.7	142.7	144.6	148.1	152.1	157.5	162.0	164.9	165.4
67.5°	131.3	131.8	132.7	134.7	138.7	142.2	146.6	151.6	155.5	157.5	158.5
70°	119.4	120.4	122.3	125.3	128.8	131.8	134.7	139.7	143.1	145.1	146.1
72.5°	108.0	110.5	111.9	114.4	116.4	119.4	121.8	126.8	129.8	131.3	133.7
75°	97.6	99.6	100.5	102.0	104.0	105.0	108.0	110.0	113.9	115.9	118.9
77.5°	87.7	88.7	90.1	92.6	93.1	94.6	95.6	98.6	100.5	102.5	105.0
80°	78.8	79.7	81.7	83.2	83.7	84.7	85.2	84.7	84.2	82.7	84.7
82.5°	70.8	71.8	74.3	75.8	77.3	77.3	76.8	71.3	68.8	69.8	71.3
85°	58.4	59.4	61.9	64.9	65.4	64.9	65.4	59.9	56.5	55.0	56.5
87.5°	36.7	35.7	44.1	48.0	45.1	46.1	46.6	43.6	40.6	34.7	36.2
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	0°
2.5°	827.2	823.7	824.2	825.2	825.2	826.7	824.7	822.2	823.7	821.2	820.7	2.5°
5°	826.7	822.2	822.2	823.2	822.2	823.2	821.7	819.3	820.7	817.8	817.3	5°
7.5°	824.7	822.2	823.2	824.2	822.7	823.2	822.7	819.3	819.7	818.3	814.8	7.5°
10°	823.7	822.2	824.2	827.2	827.2	827.7	826.2	822.2	819.7	818.3	815.3	10°
12.5°	813.3	815.3	819.3	826.2	828.7	832.6	834.6	832.6	833.6	831.6	830.6	12.5°
15°	783.6	788.5	795.0	805.4	812.8	821.7	832.6	837.6	847.0	854.4	859.4	15°
17.5°	747.9	751.4	758.3	770.2	779.6	797.5	812.3	829.2	847.5	867.3	884.6	17.5°
20°	703.8	701.4	712.3	725.1	741.5	761.3	783.1	808.4	838.6	870.3	900.5	20°
22.5°	639.0	639.0	650.3	665.7	685.5	708.3	738.5	765.8	805.4	851.4	896.0	22.5°
25°	564.7	566.1	574.1	591.4	605.3	638.0	666.2	701.4	748.9	799.4	858.9	25°
27.5°	485.4	495.3	493.3	511.7	530.0	562.2	600.8	636.5	689.5	743.5	811.3	27.5°
30°	413.6	412.1	411.6	433.4	451.7	481.0	512.7	557.7	611.2	680.6	758.8	30°
32.5°	324.4	329.9	333.8	346.7	366.5	393.8	428.0	475.0	539.4	609.2	697.4	32.5°
35°	268.0	269.5	274.9	282.3	299.7	322.5	358.1	399.7	456.2	528.5	622.1	35°
37.5°	240.2	241.7	247.7	254.6	267.0	283.8	308.1	340.3	392.3	459.7	546.8	37.5°
40°	231.3	232.8	236.3	242.7	254.1	268.5	287.8	312.5	350.2	402.7	479.0	40°
42.5°	227.3	227.3	227.8	232.8	244.2	261.0	281.8	304.1	331.9	371.5	433.4	42.5°
45°	222.9	222.9	222.4	225.9	234.8	254.1	279.4	306.6	336.8	371.0	419.5	45°
47.5°	218.9	217.9	216.9	218.4	225.9	245.7	274.9	308.1	346.7	389.3	438.4	47.5°
50°	205.1	205.1	204.6	205.1	212.0	232.8	266.5	306.6	355.6	410.6	470.1	50°
52.5°	195.2	195.6	196.1	196.1	201.6	222.9	260.0	307.1	365.5	431.4	506.7	52.5°
55°	192.7	193.7	193.7	192.7	197.1	216.5	254.1	305.6	372.5	454.7	545.8	55°
57.5°	189.7	190.2	190.7	189.7	192.7	209.5	245.7	298.7	370.5	463.6	575.1	57.5°
60°	185.7	183.8	183.3	181.8	183.8	197.1	230.8	283.8	358.6	459.7	585.0	60°
62.5°	174.8	173.4	171.9	170.4	171.9	181.8	214.5	265.5	338.8	443.8	577.0	62.5°
63°	172.4	171.4	169.9	168.4	168.4	179.3	209.0	261.0	333.8	439.3	574.1	63°
65°	165.4	164.9	163.9	162.5	162.0	170.4	196.6	240.7	310.6	419.5	555.2	65°
67.5°	157.5	157.5	157.0	155.0	152.6	157.5	175.8	210.5	269.9	368.5	508.7	67.5°
70°	146.1	146.1	145.6	144.6	141.7	145.1	157.0	179.8	222.4	301.2	426.5	70°
72.5°	134.7	134.7	136.2	135.7	136.2	136.7	142.7	155.0	180.8	234.3	322.5	72.5°
75°	119.9	122.3	122.8	123.8	124.3	123.8	126.8	134.2	149.1	179.8	235.3	75°
77.5°	107.5	111.0	110.5	109.5	109.0	109.5	109.0	112.4	123.3	142.7	174.4	77.5°
80°	88.7	92.1	92.1	91.6	90.6	91.6	90.6	94.1	103.0	119.9	138.7	80°
82.5°	72.8	75.3	76.8	77.8	76.8	80.7	80.7	79.7	86.7	101.5	116.9	82.5°
85°	58.4	60.9	62.4	64.4	65.4	64.4	63.9	62.9	66.9	78.8	89.2	85°
87.5°	37.1	39.1	39.1	39.6	39.6	41.1	38.1	34.7	31.7	45.1	47.1	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: P145925

NUMBER: VPL-F03-LED-E1-CPL

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
819.3	819.3	819.3	819.3	819.3	819.3	819.3
819.3	819.3	819.7	818.3	819.7	819.7	818.3
815.8	814.8	814.8	814.3	815.3	814.8	814.3
812.8	812.8	810.8	809.3	808.8	810.8	809.8
811.8	810.8	810.3	809.3	809.8	811.3	812.3
829.7	826.2	827.2	826.7	827.2	828.7	831.6
862.3	862.3	864.8	859.4	861.8	864.3	868.3
899.0	907.9	912.4	911.9	912.9	914.8	919.3
930.2	958.4	978.2	983.2	996.6	999.5	992.6
944.1	994.6	1039.2	1068.9	1102.1	1115.4	1119.4
915.8	988.6	1062.0	1130.3	1195.7	1233.3	1266.5
886.6	972.8	1070.4	1172.4	1278.9	1375.0	1446.8
846.0	959.9	1091.7	1229.4	1370.5	1504.3	1624.1
801.4	939.1	1093.7	1261.1	1435.4	1601.8	1747.0
737.5	890.6	1062.0	1256.1	1458.2	1666.7	1848.0
664.2	813.3	1005.5	1227.4	1456.7	1699.9	1917.4
586.0	738.5	940.6	1178.4	1437.4	1710.3	1965.9
527.0	678.1	876.2	1131.8	1408.7	1703.4	1989.2
496.8	626.1	823.7	1086.2	1376.5	1686.5	1999.1
502.7	612.2	792.5	1048.6	1347.8	1668.2	1996.6
535.9	633.0	792.0	1034.7	1329.4	1651.4	1989.7
586.0	680.1	820.7	1051.1	1339.3	1649.9	1989.2
642.4	745.9	890.1	1095.1	1381.4	1676.6	2001.1
696.9	826.2	979.2	1193.7	1461.2	1743.5	2049.1
729.1	899.5	1093.7	1332.9	1584.0	1860.9	2154.6
736.5	943.6	1195.2	1469.6	1752.4	2030.8	2319.1
736.0	948.0	1212.5	1497.8	1786.6	2069.9	2361.2
724.6	956.9	1259.1	1591.0	1923.8	2237.8	2537.0
689.0	941.1	1284.8	1677.6	2060.0	2423.1	2801.5
607.3	868.8	1254.6	1705.9	2141.2	2545.9	2977.8
475.5	716.7	1083.3	1559.3	2031.3	2436.0	2982.3
334.3	506.7	833.6	1280.4	1660.3	2058.5	2663.8
232.8	328.4	541.4	861.4	1198.2	1501.8	1980.3
170.4	218.4	324.4	515.1	727.1	938.6	1228.9
131.3	157.5	207.5	311.1	410.6	525.5	741.0
92.1	104.0	128.3	192.2	275.4	375.9	542.9
40.1	47.1	61.9	113.4	186.2	179.3	170.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)