

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: STREETWORKS

Report Number: P177501

Luminaire Tested: **VAL-F03-LED-E-U-GL3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P177501
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: STREETWORKS
Catalog Number: VAL-F03-LED-E-U-GL3-8030
Description: VALET TUNNEL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE III W/ GLARE CONTROL
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6205.2 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

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: 28.75 FT



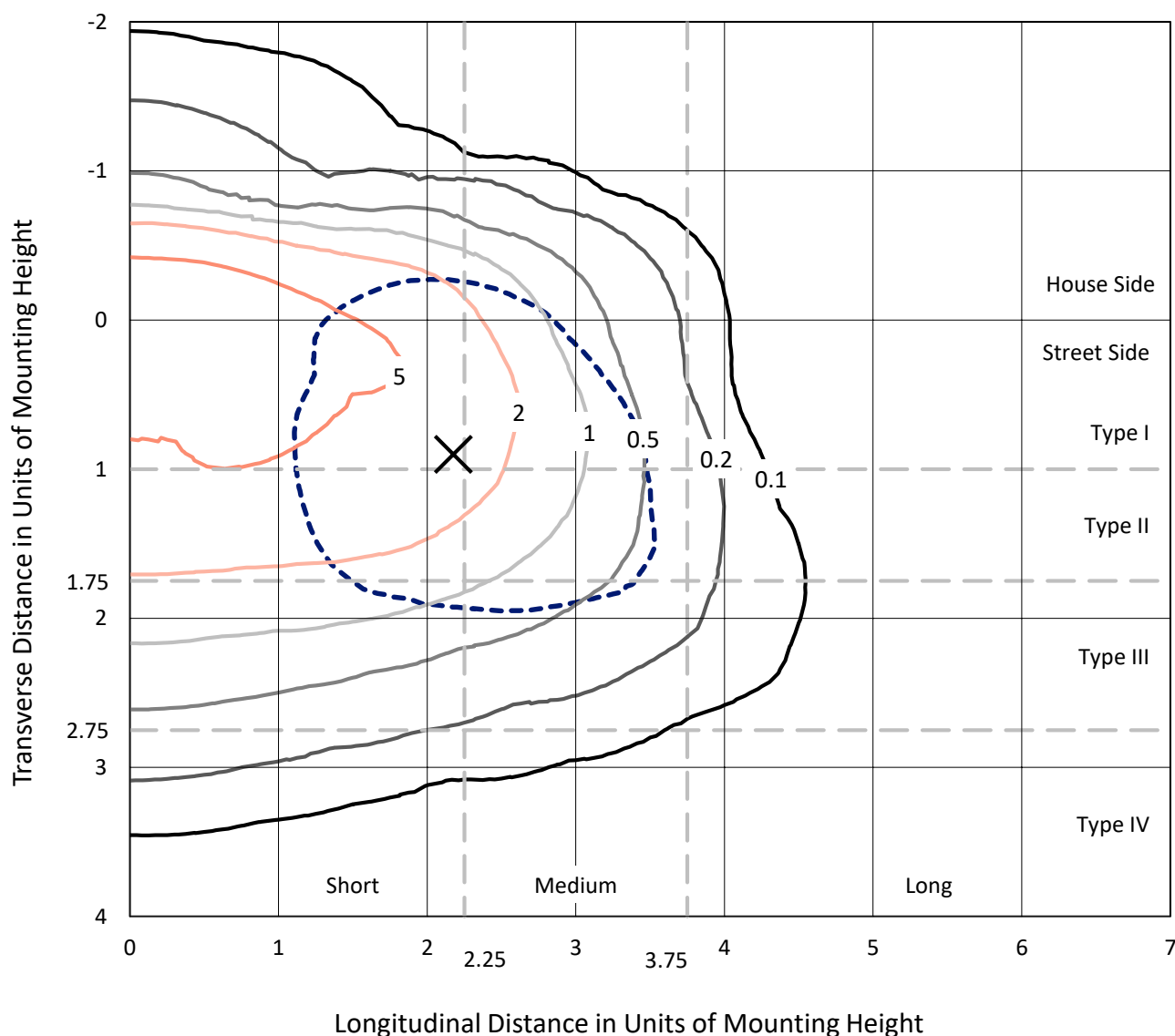
REPORT NUMBER: P177501

CATALOG NUMBER: VAL-F03-LED-E-U-GL3-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

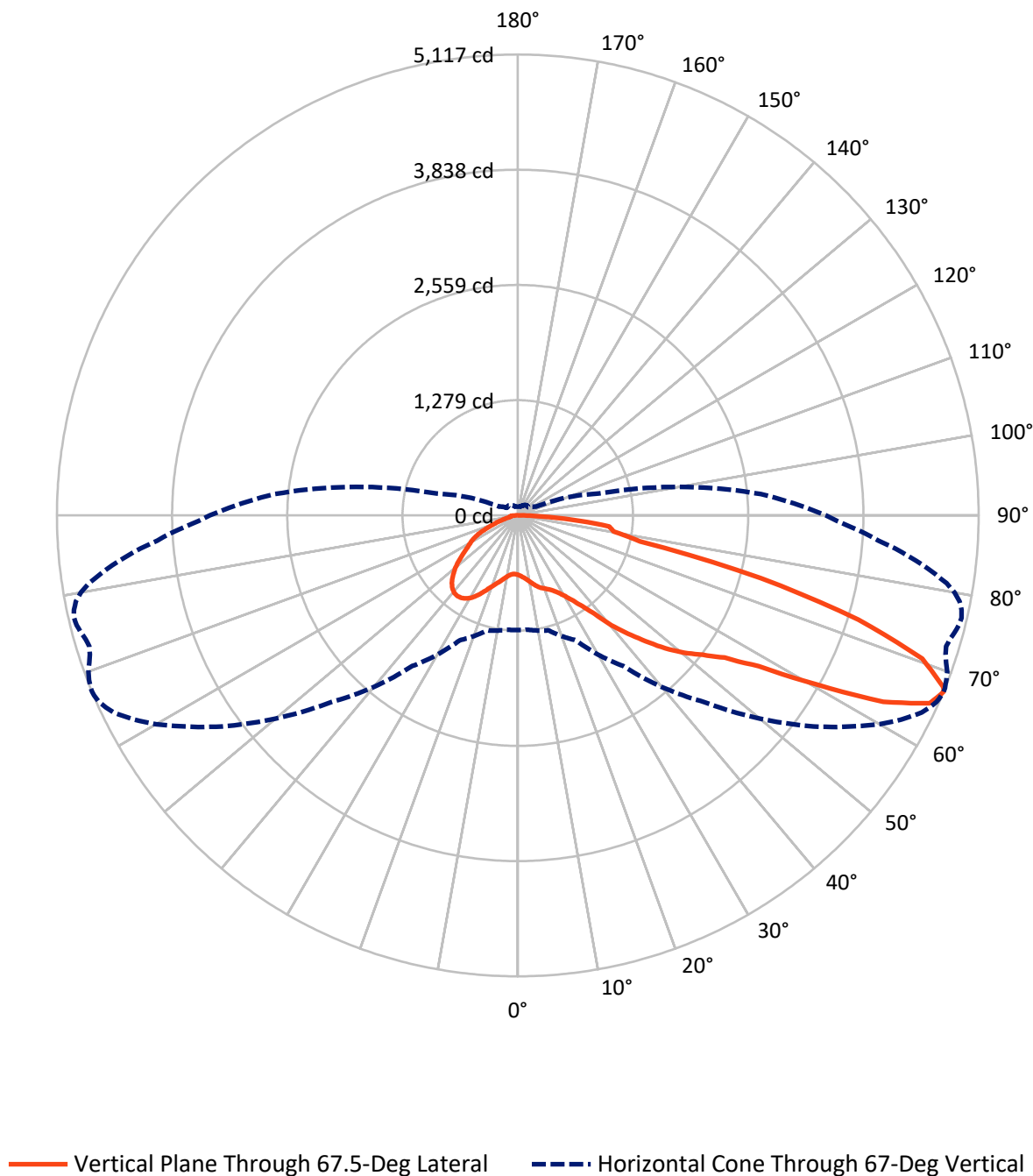


Based on 10 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P177501

CATALOG NUMBER: VAL-F03-LED-E-U-GL3-8030

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1469.4	0.0	1469.4
	% Fixture	23.7	0.0	23.7
Street Side	Lumens	4735.8	0.0	4735.8
	% Fixture	76.3	0.0	76.3
Total	Lumens	6205.2	0.0	6205.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	1.1
10°-20°	225.6	3.6
20°-30°	401.6	6.5
30°-40°	585.0	9.4
40°-50°	901.4	14.5
50°-60°	1320.1	21.3
60°-70°	1753.0	28.2
70°-80°	826.3	13.3
80°-90°	126.3	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°	6205.2	100.0
0°-180°	6205.2	100.0

Coefficient of Utilization



REPORT NUMBER: P177501

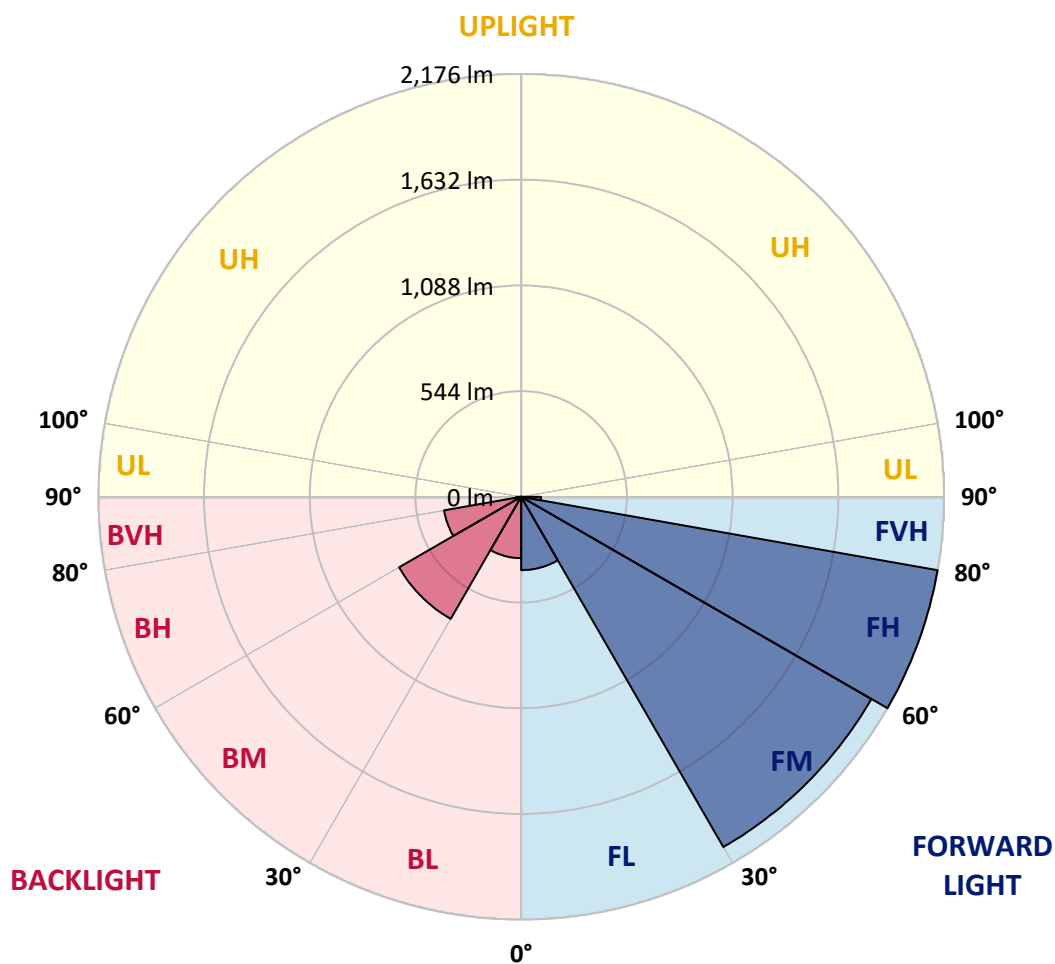
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	377.2	6.1			
FM	(30°-60°)	2080.9	33.5			
FH	(60°-80°)	2175.9	35.1			G2/5000
FVH	(80°-90°)	101.8	1.6			G2/225
BL	(0°-30°)	315.9	5.1	B1/500		
BM	(30°-60°)	725.6	11.7	B1/1000		
BH	(60°-80°)	403.4	6.5	B1/500		G1/500
BVH	(80°-90°)	24.5	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-G2

Type III Short





REPORT NUMBER: P177501

CATALOG NUMBER: VAL-F03-LED-E-U-GL3-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	693.1	690.2	690.6	691.9	687.7	685.6	681.0	678.1	677.6	677.2	675.6
5°	733.7	730.7	732.0	728.6	720.7	715.3	705.7	700.6	699.8	699.0	696.9
7.5°	775.9	772.1	767.9	764.2	755.4	746.6	734.1	726.6	725.7	724.5	723.2
10°	826.0	820.6	817.3	805.6	790.5	778.4	765.9	757.9	757.5	756.2	753.7
12.5°	882.5	876.6	870.4	854.9	831.5	813.5	798.9	794.3	790.5	790.9	788.4
15°	938.5	932.2	923.9	904.2	873.3	846.5	827.7	821.0	821.5	819.4	820.6
17.5°	985.7	980.3	968.2	943.1	907.1	870.4	846.5	843.6	844.4	844.0	845.3
20°	1016.7	1013.3	994.9	964.8	924.3	883.7	859.5	859.5	859.9	861.6	864.5
22.5°	1035.5	1030.5	1006.2	964.0	923.9	890.0	871.2	875.4	877.9	879.1	883.7
25°	1045.9	1039.7	1006.6	950.6	909.7	894.6	888.8	899.2	903.4	905.5	913.0
27.5°	1045.9	1038.4	1001.2	933.9	893.4	908.4	922.2	940.2	943.1	949.4	958.2
30°	1034.2	1028.4	992.8	921.4	889.2	934.3	976.1	996.6	1003.7	1010.8	1022.1
32.5°	1021.7	1016.7	988.7	928.1	912.6	988.7	1058.5	1086.5	1090.7	1096.5	1108.2
35°	1020.9	1019.2	1007.1	970.7	983.2	1088.2	1182.6	1201.9	1213.6	1216.5	1221.5
37.5°	1029.6	1033.0	1043.4	1039.7	1084.8	1236.1	1345.3	1383.7	1392.9	1387.9	1392.5
40°	1050.1	1058.5	1097.4	1145.4	1239.9	1415.1	1566.8	1611.1	1621.2	1618.2	1617.0
42.5°	1114.9	1126.2	1183.5	1286.3	1401.3	1600.3	1772.5	1820.2	1823.5	1825.2	1814.3
45°	1216.5	1222.8	1298.9	1430.1	1576.0	1799.7	1977.8	2030.8	2028.8	2020.4	2012.5
47.5°	1331.9	1344.8	1436.0	1594.8	1756.6	1984.0	2185.5	2237.4	2242.0	2234.4	2219.8
50°	1436.8	1446.8	1549.7	1738.2	1915.9	2137.4	2360.7	2412.9	2412.1	2416.3	2420.5
52.5°	1519.6	1528.8	1626.6	1833.9	2032.9	2266.2	2492.8	2557.2	2567.2	2573.9	2582.2
55°	1562.2	1571.8	1662.1	1873.7	2104.0	2392.0	2645.4	2737.8	2754.9	2769.9	2783.7
57.5°	1563.1	1575.6	1658.4	1870.7	2140.8	2504.5	2847.3	3013.2	3037.5	3075.9	3123.2
60°	1537.6	1555.1	1629.5	1843.6	2183.0	2647.0	3180.0	3497.8	3545.4	3612.7	3673.3
62.5°	1471.1	1488.6	1555.1	1774.6	2232.3	2829.7	3660.8	4126.5	4228.1	4302.5	4422.5
65°	1366.2	1382.9	1438.9	1660.5	2193.0	2973.9	4019.0	4577.6	4681.2	4774.5	4915.3
67°	1272.5	1274.2	1321.4	1529.6	2040.0	2929.2	4091.0	4637.8	4733.5	4828.0	4991.4
67.5°	1239.5	1248.7	1285.5	1486.1	1981.9	2896.2	4062.5	4605.1	4697.9	4798.7	4965.5
70°	1002.0	1004.6	1040.1	1185.6	1572.7	2401.2	3649.1	4189.2	4252.7	4400.3	4564.2
72.5°	611.2	607.0	618.3	726.1	1035.1	1663.0	2921.7	3448.8	3535.8	3661.6	3772.4
75°	336.5	356.6	370.4	445.2	581.5	977.8	1989.5	2495.3	2622.8	2697.6	2719.8
77.5°	205.7	204.0	210.3	287.2	477.0	668.9	1099.0	1464.0	1535.0	1556.4	1474.0
80°	97.8	101.6	100.3	118.3	231.2	564.4	768.4	940.2	976.1	996.6	1023.4
82.5°	53.5	55.6	63.1	70.6	91.1	242.9	663.0	867.0	891.3	926.4	965.7
85°	33.4	35.1	48.5	51.0	56.0	74.8	276.3	506.7	527.2	597.0	619.1
87.5°	13.8	15.0	26.3	23.8	28.4	26.3	83.6	128.8	136.7	145.5	161.4
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: P177501

CATALOG NUMBER: VAL-F03-LED-E-U-GL3-8030

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	67.5°	68°	69°	70°	71°	72°	73°	74°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	676.0	675.6	673.9	673.5	674.3	674.3	673.5	672.2	671.8	671.4	670.5
5°	696.0	695.2	693.9	693.1	692.7	692.7	691.4	690.2	688.9	687.3	686.8
7.5°	719.9	719.9	719.4	718.2	716.9	715.3	714.0	712.8	711.5	710.7	709.4
10°	751.2	752.9	750.0	749.1	748.7	746.2	745.8	744.5	743.7	741.6	741.6
12.5°	788.4	786.8	786.3	784.7	784.7	783.4	783.0	782.6	781.7	780.1	779.6
15°	819.4	819.4	818.9	818.1	818.9	818.1	816.9	817.7	816.4	816.9	815.6
17.5°	844.4	846.1	845.7	846.1	845.7	845.7	846.5	846.5	847.4	845.7	846.1
20°	865.3	867.9	869.1	868.3	869.1	869.5	871.6	872.5	873.7	874.5	874.5
22.5°	887.1	890.4	892.9	892.9	894.6	896.3	900.0	900.9	903.8	903.4	905.5
25°	917.6	923.0	924.7	927.2	929.3	932.2	936.8	938.9	940.2	943.1	946.4
27.5°	964.4	971.1	972.4	975.3	980.7	982.4	987.4	989.5	994.1	1000.4	1001.6
30°	1028.4	1036.7	1037.2	1040.5	1046.8	1048.9	1053.0	1058.5	1062.2	1068.5	1068.9
32.5°	1115.3	1123.7	1122.4	1128.7	1128.3	1134.6	1133.3	1141.7	1145.0	1148.4	1157.6
35°	1231.1	1230.3	1236.6	1238.7	1237.4	1242.4	1241.6	1245.3	1248.7	1248.7	1258.7
37.5°	1397.9	1396.7	1395.8	1387.1	1385.0	1385.4	1383.7	1387.1	1381.6	1381.6	1392.5
40°	1621.6	1614.1	1608.2	1602.4	1596.5	1588.6	1581.9	1580.2	1571.0	1570.6	1566.4
42.5°	1816.0	1808.9	1804.7	1793.4	1787.5	1786.3	1770.0	1765.4	1762.9	1764.6	1760.4
45°	2020.0	2012.5	1996.6	1991.5	1989.9	1981.1	1978.6	1967.3	1964.0	1969.8	1967.7
47.5°	2230.3	2219.4	2210.6	2204.7	2202.7	2195.1	2184.3	2193.5	2188.9	2185.5	2179.2
50°	2419.2	2407.1	2407.1	2396.6	2398.3	2393.3	2382.0	2384.5	2371.5	2376.6	2373.2
52.5°	2577.6	2578.5	2582.7	2571.0	2573.0	2573.0	2569.3	2557.2	2560.5	2558.8	2566.8
55°	2779.1	2792.9	2785.4	2787.5	2790.0	2801.7	2810.1	2803.0	2791.3	2800.5	2826.0
57.5°	3131.5	3144.1	3151.6	3157.5	3167.1	3172.5	3217.7	3223.9	3210.6	3238.1	3295.0
60°	3744.4	3759.4	3782.0	3811.7	3818.0	3856.0	3879.4	3907.0	3917.0	3940.9	4001.9
62.5°	4481.4	4515.3	4519.4	4557.1	4586.3	4550.8	4560.0	4593.9	4555.4	4608.1	4610.6
65°	4963.8	5013.2	5014.8	5028.6	5039.5	5006.0	4991.0	4975.9	4939.6	4937.5	4973.9
67°	5046.6	5091.7	5110.6	5117.2	5115.6	5098.4	5073.8	5030.3	4995.2	4975.1	4990.2
67.5°	5023.2	5067.5	5093.8	5100.1	5100.5	5083.8	5061.2	5014.0	4981.0	4958.4	4974.3
70°	4638.6	4742.3	4787.4	4764.0	4777.4	4777.4	4776.5	4733.1	4716.8	4695.0	4686.7
72.5°	3856.8	3928.8	3986.0	3955.5	3959.3	3987.7	3981.0	3985.6	3938.8	3933.8	3856.4
75°	2762.8	2785.8	2766.6	2788.3	2671.3	2629.5	2558.4	2454.7	2427.6	2384.5	2255.8
77.5°	1467.7	1441.8	1390.4	1386.2	1338.2	1300.9	1255.0	1224.9	1148.8	1106.6	1010.0
80°	1036.7	1049.3	1068.9	1080.6	1091.5	1099.9	1082.7	1034.7	971.1	900.0	832.7
82.5°	990.3	1007.5	1019.2	1025.0	1020.9	1007.5	968.2	922.2	837.3	775.9	703.1
85°	624.6	638.3	614.5	609.5	620.0	535.5	489.1	451.5	365.8	340.3	300.6
87.5°	167.6	176.8	177.2	171.8	168.5	148.4	131.3	116.2	96.1	90.3	73.2
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: P177501

CATALOG NUMBER: VAL-F03-LED-E-U-GL3-8030

CANDELA DISTRIBUTION (continued):

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	670.5	670.1	670.1	668.9	668.0	667.6	667.2	665.9	665.1	665.1	664.7
5°	686.4	685.6	684.3	683.9	682.2	681.4	679.7	678.9	677.6	676.8	676.4
7.5°	709.0	706.9	704.4	704.8	702.3	701.1	700.2	698.5	697.3	696.0	695.6
10°	739.1	738.7	736.2	737.0	732.4	734.5	730.3	730.7	728.2	725.7	725.3
12.5°	777.6	777.1	774.6	771.7	770.9	771.3	768.8	769.2	766.3	765.4	764.6
15°	814.3	813.5	812.3	810.2	808.9	808.5	807.7	806.8	804.3	804.3	801.4
17.5°	846.1	846.5	844.9	843.2	842.4	841.1	840.7	840.7	838.6	836.5	836.9
20°	874.1	875.0	875.0	873.7	874.1	873.3	872.9	873.7	871.6	870.8	869.5
22.5°	905.5	905.5	905.9	906.7	908.0	908.4	908.4	907.6	906.3	905.9	903.4
25°	949.0	947.3	949.4	950.2	950.2	952.3	951.5	951.9	952.3	951.0	949.8
27.5°	1003.7	1002.0	1006.2	1009.2	1008.7	1010.0	1012.5	1009.6	1011.2	1012.5	1009.6
30°	1071.0	1075.2	1078.1	1080.2	1079.4	1083.1	1084.4	1084.0	1082.7	1084.8	1084.8
32.5°	1156.7	1154.6	1162.2	1166.8	1167.2	1166.3	1168.4	1170.9	1168.8	1172.2	1170.5
35°	1258.7	1260.0	1261.6	1266.7	1268.8	1265.4	1268.8	1271.7	1270.8	1271.3	1272.9
37.5°	1390.4	1392.5	1390.8	1391.2	1390.4	1406.3	1408.8	1411.3	1408.4	1405.9	1413.4
40°	1573.1	1573.1	1572.7	1578.1	1568.9	1578.9	1576.0	1583.1	1590.6	1586.5	1597.8
42.5°	1752.8	1762.9	1763.7	1755.8	1762.5	1773.3	1773.3	1777.9	1784.6	1777.9	1788.8
45°	1958.9	1971.5	1969.4	1982.8	1972.7	1985.3	1987.4	1981.5	1996.1	1997.8	1993.6
47.5°	2183.8	2186.4	2186.8	2191.4	2193.5	2203.5	2203.1	2213.9	2210.6	2193.9	2199.7
50°	2376.6	2382.8	2386.2	2389.1	2399.6	2406.7	2416.3	2418.0	2415.4	2410.4	2405.8
52.5°	2569.3	2584.3	2593.9	2619.9	2636.2	2649.1	2665.0	2670.9	2667.9	2666.7	2648.3
55°	2827.2	2863.2	2918.8	2954.7	2994.0	3017.0	3035.4	3044.6	3037.9	3041.3	3003.2
57.5°	3313.0	3397.4	3445.9	3507.4	3576.8	3605.6	3613.5	3646.2	3610.2	3574.3	3545.4
60°	4034.9	4112.7	4200.9	4264.0	4287.4	4367.3	4329.7	4287.4	4249.0	4174.6	4090.5
62.5°	4686.7	4787.0	4832.1	4891.1	4875.2	4868.5	4843.4	4776.1	4693.8	4583.0	4471.0
65°	5008.1	5064.6	5092.6	5111.8	5093.8	5047.4	4964.7	4865.2	4747.3	4603.9	4456.7
67°	5021.1	5047.0	5056.2	5037.8	4997.7	4925.4	4820.9	4680.0	4534.9	4370.6	4205.1
67.5°	4999.8	5016.9	5021.5	4992.7	4945.0	4866.8	4755.2	4604.7	4450.5	4279.9	4113.5
70°	4708.8	4696.3	4655.7	4616.0	4467.2	4362.3	4167.9	4007.3	3793.3	3636.5	3458.9
72.5°	3825.5	3768.2	3728.9	3553.4	3373.6	3269.5	3060.5	2868.6	2673.4	2524.1	2415.0
75°	2147.5	2105.7	1996.6	1903.8	1755.4	1619.5	1522.1	1400.0	1283.0	1213.6	1162.6
77.5°	970.3	850.7	768.4	664.3	536.8	431.4	320.2	296.0	252.5	241.6	217.8
80°	757.1	671.4	563.5	444.4	313.5	210.7	154.7	131.3	123.3	118.3	115.8
82.5°	631.7	520.5	438.1	311.0	199.0	133.8	100.7	91.1	85.3	81.1	77.3
85°	270.1	213.6	176.0	125.8	89.5	70.6	61.9	56.4	51.0	46.4	43.5
87.5°	63.1	48.5	44.3	37.6	35.5	35.1	34.7	33.0	30.9	28.4	25.5
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: P177501

CATALOG NUMBER: VAL-F03-LED-E-U-GL3-8030

CANDELA DISTRIBUTION (continued):

	86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°
0°	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1	660.1
2.5°	664.3	663.8	663.0	661.8	661.8	660.1	654.7	650.9	646.7	644.2	641.7
5°	675.6	675.1	673.0	671.8	671.0	667.6	658.4	651.3	643.8	638.3	634.2
7.5°	694.4	693.1	691.4	690.6	688.1	683.9	670.5	660.5	649.6	640.9	633.8
10°	724.9	722.8	720.3	717.8	718.6	711.9	696.5	681.8	665.9	652.1	642.5
12.5°	762.1	762.1	760.8	759.2	756.2	748.7	727.8	710.7	691.4	674.3	667.2
15°	801.4	799.3	797.2	794.7	794.3	784.2	765.4	745.8	725.7	711.1	702.7
17.5°	833.6	834.4	831.5	830.6	829.8	819.8	799.7	782.2	767.5	752.1	738.7
20°	867.9	866.2	865.3	864.1	863.7	855.3	839.4	828.6	815.6	792.2	757.1
22.5°	904.6	902.6	903.4	900.9	900.5	894.6	882.9	879.6	860.3	811.0	750.0
25°	952.3	948.5	949.8	949.8	950.2	944.8	943.5	937.7	889.2	806.4	721.5
27.5°	1009.2	1010.8	1010.8	1010.4	1007.5	1009.2	1015.0	994.9	899.2	782.2	678.9
30°	1083.1	1084.0	1084.8	1087.7	1081.5	1092.3	1099.4	1035.5	891.7	748.7	625.4
32.5°	1173.0	1169.7	1171.4	1173.0	1175.1	1186.4	1182.2	1056.0	869.5	703.1	558.9
35°	1272.1	1278.4	1280.0	1283.8	1288.0	1305.1	1257.1	1060.2	835.7	642.1	474.1
37.5°	1419.7	1429.7	1429.7	1443.1	1435.1	1456.0	1323.9	1050.1	784.2	557.2	378.3
40°	1605.7	1610.3	1614.9	1616.6	1612.4	1609.9	1367.8	1025.5	711.9	450.6	276.7
42.5°	1795.5	1793.8	1794.2	1797.2	1785.9	1738.6	1395.0	982.4	622.0	336.5	198.6
45°	1999.9	1992.8	1990.7	1984.9	1974.8	1875.3	1410.5	921.8	503.7	236.6	155.9
47.5°	2198.9	2190.1	2176.7	2160.4	2141.2	1985.3	1408.8	843.2	386.3	169.3	137.5
50°	2402.9	2387.4	2358.6	2342.7	2310.1	2094.4	1399.2	755.8	278.0	140.0	128.8
52.5°	2636.2	2608.6	2581.8	2550.1	2496.1	2228.6	1384.6	657.6	202.8	128.3	122.9
55°	2984.0	2938.8	2894.9	2828.9	2776.6	2408.3	1359.9	551.8	160.1	123.7	119.6
57.5°	3463.5	3386.6	3331.0	3241.9	3158.3	2657.1	1333.6	455.7	143.0	122.5	117.9
60°	4003.2	3887.4	3783.7	3674.2	3578.9	2967.7	1319.8	380.4	139.2	123.7	118.3
62.5°	4341.8	4205.1	4075.5	3941.7	3804.6	3116.1	1260.0	328.6	140.9	129.2	121.7
65°	4299.1	4148.2	4007.3	3844.3	3715.1	2976.0	1107.8	278.0	143.8	138.8	130.8
67°	4011.5	3865.2	3704.7	3545.0	3419.6	2709.7	935.2	234.1	147.2	149.7	140.9
67.5°	3934.6	3769.9	3608.1	3461.4	3325.5	2627.4	890.0	223.2	148.0	152.6	144.2
70°	3281.2	3150.8	2961.4	2852.7	2754.5	2129.9	663.8	173.5	150.5	165.5	160.1
72.5°	2295.9	2169.6	2070.6	2011.2	1953.9	1547.6	467.0	138.4	146.7	172.7	167.2
75°	1159.6	1130.8	1096.1	1076.9	1077.7	899.6	281.3	117.9	138.0	165.5	151.7
77.5°	229.1	223.2	225.7	247.1	243.3	277.2	139.6	99.9	117.5	127.5	109.1
80°	110.8	107.0	103.7	102.8	100.7	96.6	87.8	83.2	95.3	84.0	72.3
82.5°	71.9	67.7	66.1	62.7	63.1	68.6	76.5	79.8	77.3	58.1	48.9
85°	40.6	40.1	39.3	40.1	41.8	54.8	81.9	74.8	62.3	41.0	36.8
87.5°	24.2	23.0	23.4	23.8	24.7	40.6	64.8	53.9	39.7	21.3	21.7
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: P177501

CATALOG NUMBER: VAL-F03-LED-E-U-GL3-8030

CANDELA DISTRIBUTION (continued):

	155°	165°	175°	180°
0°	660.1	660.1	660.1	660.1
2.5°	641.3	639.6	639.6	639.2
5°	630.8	628.3	627.9	627.9
7.5°	629.2	625.8	625.4	624.1
10°	636.7	635.4	635.8	634.6
12.5°	660.5	662.2	663.8	663.8
15°	696.9	695.6	697.7	695.6
17.5°	723.6	712.8	710.3	709.0
20°	724.5	701.9	694.4	693.1
22.5°	698.5	665.1	652.6	650.5
25°	654.7	612.4	596.5	594.9
27.5°	599.5	552.2	528.8	528.0
30°	533.0	477.0	447.3	442.7
32.5°	451.9	385.4	354.1	344.0
35°	358.3	290.1	260.9	260.0
37.5°	267.5	214.5	195.6	194.8
40°	196.1	168.5	161.4	160.1
42.5°	160.1	148.8	145.9	144.6
45°	143.4	138.8	137.1	135.9
47.5°	133.4	130.4	129.2	129.2
50°	125.4	124.6	123.7	123.7
52.5°	120.0	119.6	118.7	118.3
55°	115.4	113.7	114.1	113.7
57.5°	112.5	109.9	109.9	109.9
60°	110.8	106.2	106.2	106.6
62.5°	111.2	104.1	103.7	103.7
65°	114.5	102.8	100.3	100.7
67°	118.7	101.6	96.6	96.1
67.5°	120.0	100.7	95.3	94.9
70°	125.0	98.2	89.0	88.2
72.5°	125.8	94.5	82.8	81.9
75°	117.1	89.5	77.8	75.7
77.5°	91.1	76.9	70.2	70.2
80°	64.0	58.9	50.2	49.7
82.5°	46.8	44.3	36.8	36.0
85°	34.3	32.2	27.2	27.2
87.5°	21.3	20.5	17.6	16.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)