

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: P177423

Luminaire Tested: **VAL-F03-LED-E-U-GL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P177423
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: STREETWORKS
Catalog Number: VAL-F03-LED-E-U-GL2
Description: VALET TUNNEL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE II W/ GLARE CONTROL
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7251.4 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-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

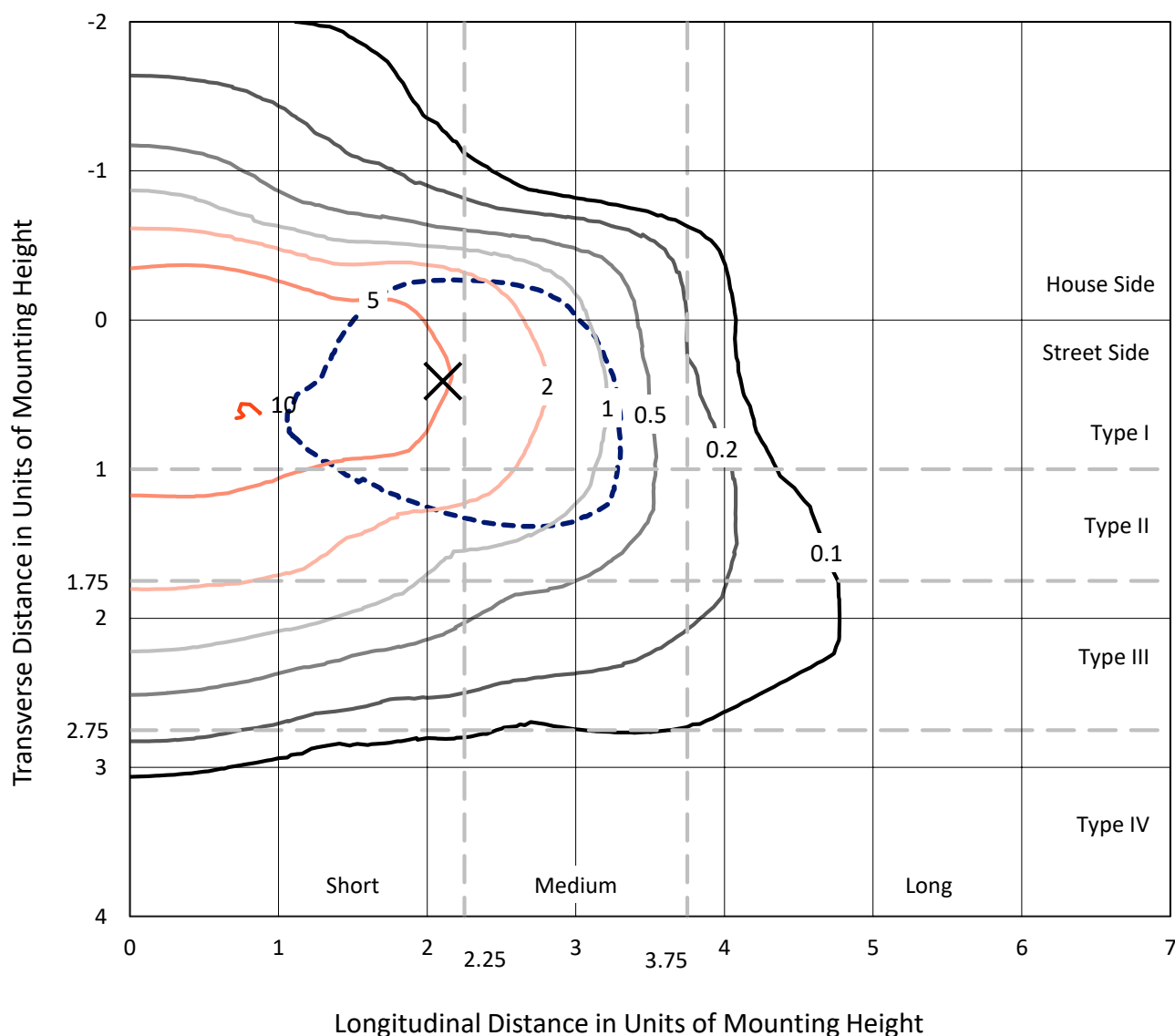


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

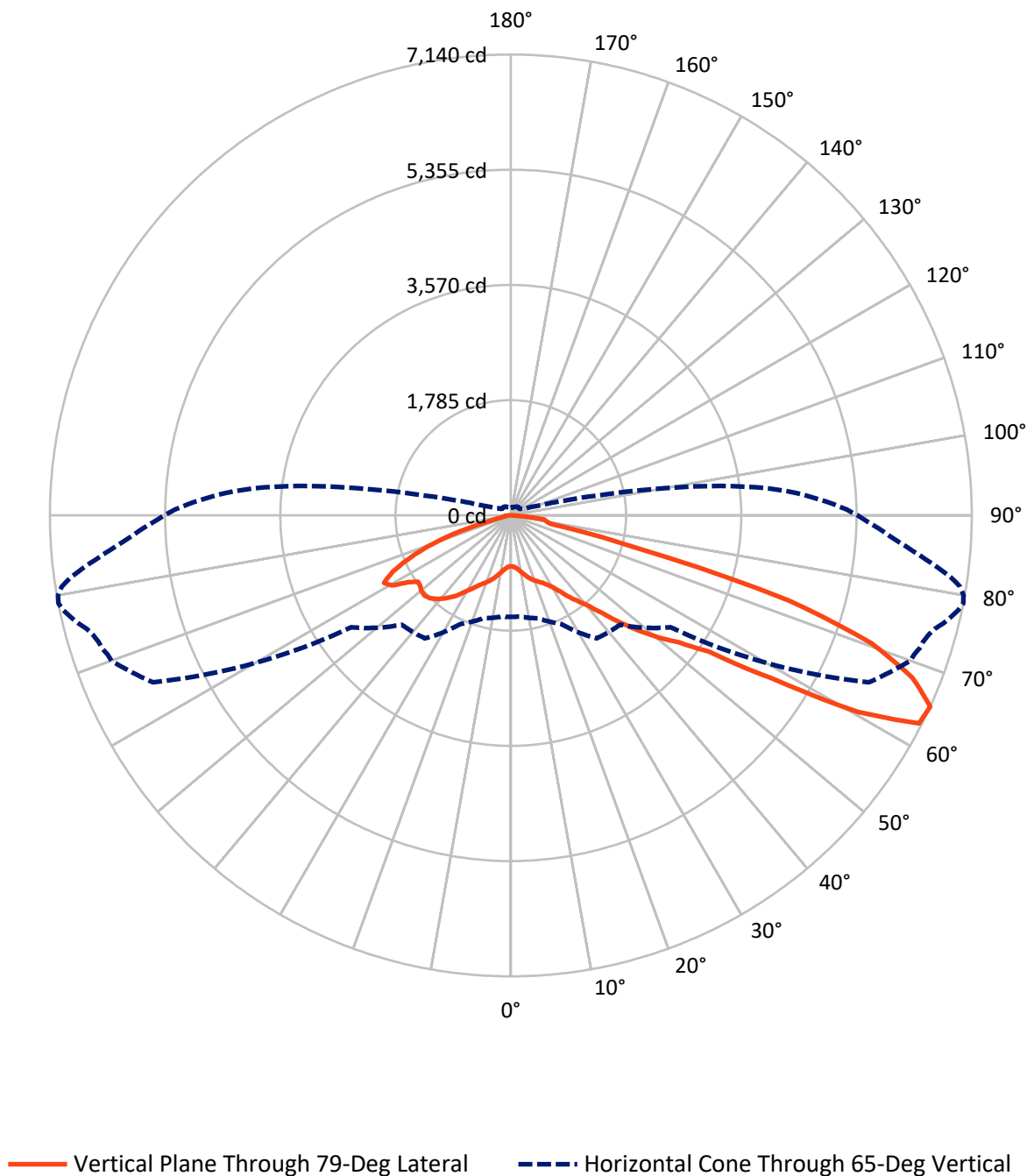


Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1646.0	0.0	1646.0
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	5605.4	0.0	5605.4
	% Fixture	77.3	0.0	77.3
Total	Lumens	7251.4	0.0	7251.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	1.1
10°-20°	254.6	3.5
20°-30°	439.0	6.1
30°-40°	715.9	9.9
40°-50°	1195.1	16.5
50°-60°	1616.0	22.3
60°-70°	2007.5	27.7
70°-80°	803.9	11.1
80°-90°	141.2	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°	7251.4	100.0
0°-180°	7251.4	100.0

Coefficient of Utilization



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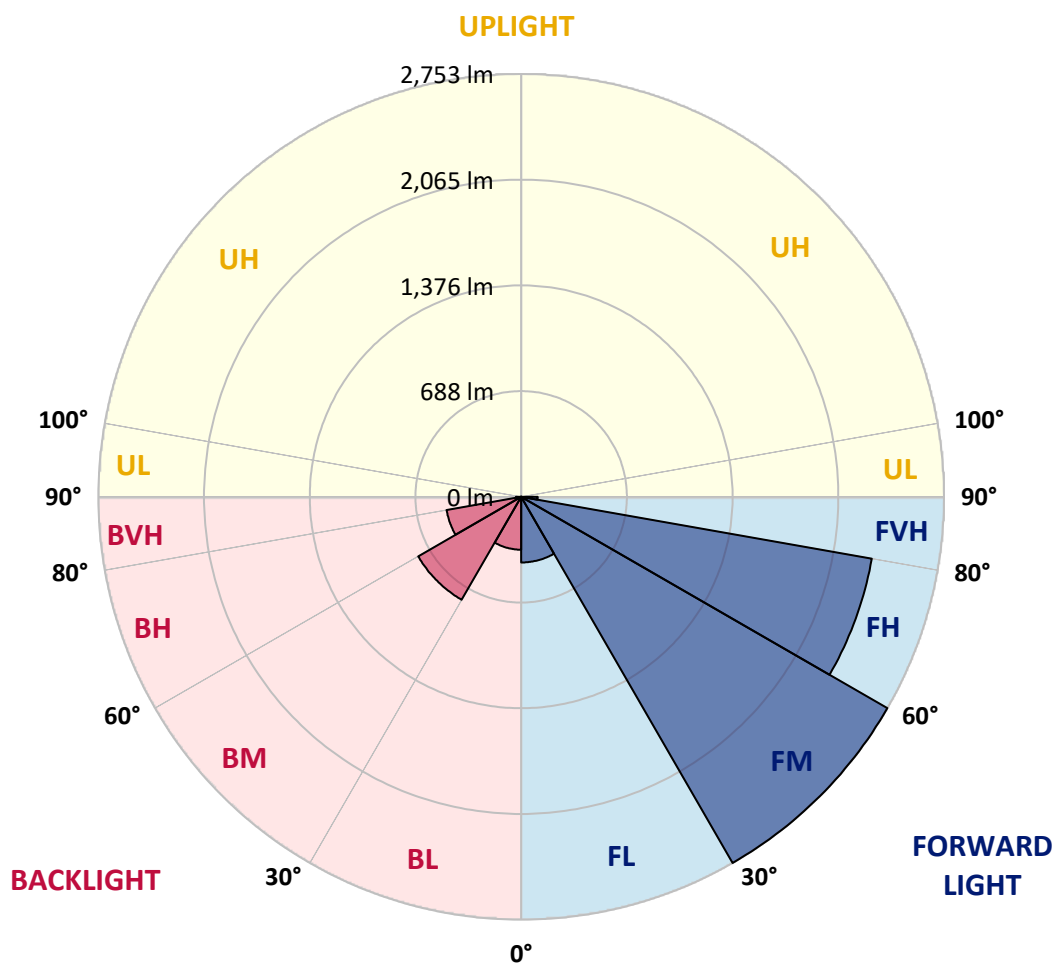
CATALOG NUMBER: VAL-F03-LED-E-U-GL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	427.6	5.9			
FM	(30°-60°)	2752.7	38.0			
FH	(60°-80°)	2317.9	32.0			G2/5000
FVH	(80°-90°)	107.1	1.5			G2/225
BL	(0°-30°)	344.3	4.7	B1/500		
BM	(30°-60°)	774.2	10.7	B1/1000		
BH	(60°-80°)	493.4	6.8	B1/500		G1/500
BVH	(80°-90°)	34.1	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	788.0	788.0	788.0	788.0	788.0	788.0	788.0	788.0	788.0	788.0	788.0
2.5°	794.0	793.5	796.0	798.0	798.0	798.9	798.4	795.5	796.0	797.0	796.0
5°	802.9	800.9	803.4	806.4	808.4	810.8	813.3	813.8	815.8	815.8	815.3
7.5°	822.2	820.7	824.2	825.2	829.7	833.6	838.6	842.0	844.0	845.0	846.5
10°	855.4	854.4	855.4	857.4	859.4	863.8	872.2	879.7	884.1	884.1	886.1
12.5°	895.5	891.6	892.6	888.6	889.6	899.0	908.9	921.3	928.7	929.7	930.7
15°	926.7	924.8	923.3	917.8	921.8	934.2	949.5	967.4	973.8	979.2	978.7
17.5°	956.0	953.5	950.0	942.6	946.5	966.4	989.6	1009.5	1020.3	1021.3	1022.3
20°	990.6	987.7	981.2	965.9	964.9	992.6	1023.8	1045.1	1055.0	1059.5	1061.0
22.5°	1034.7	1030.8	1018.9	989.1	981.2	1013.9	1051.1	1077.3	1087.7	1092.2	1094.6
25°	1091.2	1083.3	1064.4	1017.9	1001.5	1035.7	1080.3	1112.0	1126.3	1130.8	1133.8
27.5°	1142.2	1136.3	1113.5	1058.5	1030.3	1064.9	1115.9	1156.6	1176.4	1181.8	1186.3
30°	1201.6	1193.2	1174.9	1116.4	1078.8	1109.5	1174.4	1225.9	1250.2	1250.7	1260.6
32.5°	1341.3	1335.9	1319.0	1254.6	1191.2	1193.2	1253.6	1324.5	1348.7	1352.7	1361.6
35°	1548.4	1546.4	1545.9	1510.2	1463.2	1414.6	1419.1	1473.1	1489.4	1495.9	1498.8
37.5°	1684.6	1701.9	1744.0	1769.8	1757.9	1768.3	1713.8	1647.9	1638.5	1631.6	1634.5
40°	1802.0	1817.3	1902.5	2021.4	2093.7	2144.7	2096.7	1894.6	1819.3	1797.5	1789.1
42.5°	1871.3	1888.6	2010.5	2200.7	2384.9	2505.8	2518.7	2237.8	2046.6	2044.2	2012.5
45°	1908.9	1926.3	2071.9	2328.0	2588.5	2806.5	2919.4	2660.3	2379.5	2358.7	2314.6
47.5°	1901.5	1917.9	2069.4	2375.0	2708.9	3006.1	3231.9	3087.3	2763.4	2713.3	2652.4
50°	1810.9	1822.8	1981.8	2298.3	2676.7	3089.3	3445.9	3479.1	3197.8	3129.9	3038.8
52.5°	1717.3	1738.6	1870.3	2162.0	2530.6	3037.8	3573.7	3835.7	3603.4	3556.9	3440.0
55°	1666.7	1683.6	1791.1	2040.2	2376.5	2861.9	3626.7	4172.0	4096.3	4077.4	3994.7
57.5°	1664.8	1681.1	1766.8	1966.4	2251.2	2678.7	3642.1	4691.6	4914.0	4919.0	4895.2
60°	1746.0	1762.8	1834.6	2002.1	2212.6	2521.6	3587.1	5428.7	5920.0	5963.6	6036.4
62.5°	1757.4	1765.3	1852.0	2077.8	2353.2	2404.3	3360.7	6042.3	6611.5	6651.6	6691.7
65°	1572.1	1571.6	1648.4	1856.4	2324.0	2392.4	3020.4	6117.6	6583.7	6608.0	6658.0
67.5°	1172.4	1162.5	1206.1	1396.3	1844.1	2395.3	2617.2	5549.5	6070.6	6116.6	6133.5
70°	604.3	619.6	649.4	765.8	1170.9	1928.3	2248.2	4682.2	5329.1	5346.4	5406.4
72.5°	248.2	241.7	262.0	322.0	586.0	1274.4	1859.9	3695.0	4401.4	4389.5	4400.4
75°	138.2	140.2	146.1	167.9	284.8	639.9	1597.9	2615.8	2993.2	2788.1	2726.2
77.5°	111.0	111.9	112.4	116.4	155.5	341.3	1226.4	1722.7	1505.3	1397.8	1356.7
80°	81.2	86.7	92.6	93.6	107.0	193.7	672.6	1450.3	1270.5	1181.3	1108.0
82.5°	65.4	67.9	80.7	82.7	85.2	115.4	304.6	1362.1	1265.5	1174.4	1073.3
85°	39.1	43.6	65.9	66.4	67.4	70.3	168.4	554.8	690.0	609.7	558.2
87.5°	13.9	17.8	32.7	27.2	34.7	28.7	73.8	185.7	228.8	217.4	192.7
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	788.0	788.0	788.0	788.0	788.0	788.0	788.0	788.0	788.0	788.0	788.0
2.5°	795.5	795.5	796.5	796.0	796.0	796.0	796.0	795.0	795.0	793.5	794.5
5°	815.3	814.8	815.3	815.8	815.3	816.3	815.8	815.3	815.8	815.3	815.8
7.5°	847.0	844.5	848.0	846.0	845.5	848.5	847.0	848.5	849.0	848.5	848.0
10°	887.1	888.6	888.6	888.6	887.6	890.6	891.1	892.1	892.6	894.5	894.5
12.5°	933.2	933.7	935.6	935.2	936.1	939.6	942.1	942.6	943.1	944.6	942.6
15°	982.7	983.7	983.7	988.2	986.7	991.6	993.1	993.1	993.6	999.5	1000.0
17.5°	1026.8	1026.8	1030.8	1030.8	1034.7	1035.7	1040.2	1040.7	1042.6	1048.1	1048.6
20°	1063.9	1065.9	1068.4	1071.4	1072.9	1075.8	1078.8	1081.8	1084.2	1088.7	1089.2
22.5°	1099.1	1101.1	1105.0	1107.0	1110.5	1112.5	1115.0	1118.4	1122.4	1128.3	1129.8
25°	1139.7	1141.7	1146.2	1149.1	1153.1	1156.1	1160.5	1165.0	1167.5	1173.4	1177.9
27.5°	1191.2	1197.2	1203.1	1204.6	1207.6	1214.5	1220.5	1226.4	1231.8	1234.8	1240.3
30°	1266.5	1266.5	1278.9	1278.9	1284.4	1290.8	1294.8	1301.2	1311.1	1314.1	1321.0
32.5°	1367.6	1370.0	1374.5	1387.9	1397.8	1400.8	1403.7	1413.1	1419.1	1426.5	1434.9
35°	1511.7	1514.2	1516.7	1529.5	1540.9	1543.9	1546.9	1552.8	1562.7	1575.6	1571.6
37.5°	1641.0	1642.5	1650.4	1664.8	1671.2	1679.1	1681.6	1692.5	1697.9	1709.8	1710.3
40°	1796.5	1793.0	1797.5	1813.8	1823.7	1823.3	1831.2	1851.0	1855.0	1860.4	1874.3
42.5°	2013.5	2000.6	2014.4	2019.9	2034.8	2044.2	2060.0	2073.4	2082.8	2103.6	2113.5
45°	2293.8	2280.4	2291.8	2294.3	2325.0	2334.4	2358.2	2376.0	2396.3	2420.1	2427.0
47.5°	2613.3	2588.5	2574.6	2590.0	2626.7	2642.0	2665.3	2682.1	2703.4	2715.8	2711.8
50°	2983.3	2923.8	2896.1	2888.2	2914.4	2936.2	2972.4	2980.3	2990.2	2989.7	2990.2
52.5°	3395.9	3334.0	3276.0	3235.9	3231.9	3261.2	3270.1	3272.1	3269.1	3246.8	3232.9
55°	3934.8	3930.3	3869.4	3786.2	3780.7	3777.3	3725.3	3718.8	3706.9	3672.8	3625.7
57.5°	4912.5	4962.1	4921.9	4920.0	4876.4	4847.6	4752.1	4704.5	4654.5	4561.9	4488.0
60°	6042.8	6114.7	6154.3	6171.6	6256.8	6256.8	6178.6	6111.2	6030.0	5888.8	5751.1
62.5°	6723.4	6786.3	6844.8	6936.4	7044.9	7092.9	7096.9	7036.9	6934.4	6773.4	6578.8
65°	6680.3	6726.9	6797.7	6905.7	6995.3	7081.5	7139.5	7121.1	7042.9	6881.9	6669.9
67.5°	6192.4	6260.3	6351.9	6451.5	6534.7	6615.9	6709.5	6716.5	6695.7	6542.6	6350.9
70°	5439.5	5526.7	5584.7	5710.0	5747.6	5829.9	5924.0	5969.0	5935.4	5817.5	5705.0
72.5°	4419.2	4488.0	4498.0	4443.5	4462.3	4482.6	4505.4	4399.9	4359.3	4201.8	4129.4
75°	2679.7	2589.0	2512.7	2436.9	2210.6	2130.3	2007.0	1763.8	1736.1	1569.2	1453.3
77.5°	1274.4	1236.3	1167.5	1052.0	898.5	751.4	623.6	506.7	463.1	381.4	324.9
80°	1066.9	1021.3	959.4	873.7	766.3	659.3	558.2	471.5	384.4	313.0	250.1
82.5°	978.7	899.5	812.3	738.5	662.7	589.9	522.1	443.8	397.7	321.0	262.0
85°	494.8	433.4	351.2	295.7	249.6	203.1	175.8	150.1	133.7	106.5	92.6
87.5°	165.9	135.7	101.0	85.7	77.3	66.4	60.9	58.0	56.5	50.0	44.6
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	788.0	788.0	788.0	788.0	788.0	788.0	788.0	788.0	788.0	788.0	788.0
2.5°	794.5	794.5	794.5	794.5	794.0	794.0	794.0	794.0	794.0	794.0	794.5
5°	814.8	814.8	815.3	816.8	813.8	814.8	815.8	814.3	815.8	814.3	816.3
7.5°	847.5	849.0	848.0	850.0	849.0	851.9	850.0	848.5	849.5	849.5	850.0
10°	893.5	895.5	894.0	895.0	895.0	897.0	894.5	895.0	895.5	894.5	895.0
12.5°	944.6	945.6	945.1	948.0	946.5	948.0	946.5	948.5	949.5	950.5	950.5
15°	1000.0	1001.0	1004.0	1003.5	1006.5	1005.5	1006.0	1003.5	1008.5	1005.5	1006.5
17.5°	1051.1	1050.6	1054.5	1056.0	1056.5	1057.0	1058.5	1056.5	1057.0	1058.5	1057.5
20°	1090.7	1094.2	1095.1	1099.1	1102.1	1103.1	1102.6	1104.1	1106.0	1104.1	1104.1
22.5°	1132.8	1137.7	1139.2	1141.7	1144.7	1145.2	1148.1	1149.6	1150.6	1150.1	1150.6
25°	1183.3	1186.8	1190.2	1195.2	1198.7	1199.2	1201.6	1203.6	1204.1	1203.6	1206.6
27.5°	1245.2	1249.7	1254.1	1260.1	1264.0	1265.0	1270.5	1270.5	1273.5	1274.9	1275.9
30°	1325.0	1326.5	1337.8	1343.8	1342.3	1349.2	1356.7	1356.2	1359.6	1360.6	1363.1
32.5°	1440.9	1440.9	1450.8	1458.2	1466.1	1463.7	1475.0	1473.1	1478.5	1481.5	1480.0
35°	1581.5	1586.5	1593.9	1598.4	1606.8	1611.3	1619.2	1623.6	1626.1	1625.6	1620.2
37.5°	1726.7	1734.6	1737.6	1748.5	1756.9	1764.3	1765.3	1760.3	1762.3	1752.4	1749.5
40°	1892.6	1904.0	1910.9	1927.3	1926.3	1935.7	1936.7	1922.3	1919.8	1907.0	1893.6
42.5°	2124.4	2140.3	2145.7	2158.1	2148.2	2152.6	2127.9	2121.9	2102.1	2081.3	2051.1
45°	2436.9	2429.0	2432.5	2429.0	2402.8	2383.5	2363.1	2333.9	2304.7	2264.6	2221.5
47.5°	2711.8	2715.8	2690.1	2673.7	2631.1	2603.9	2566.7	2515.7	2480.0	2426.1	2369.1
50°	2978.8	2934.7	2898.6	2860.9	2823.3	2773.3	2717.3	2672.2	2620.2	2552.9	2483.0
52.5°	3195.8	3138.8	3095.2	3041.7	2990.7	2935.2	2876.8	2811.4	2743.1	2675.7	2589.5
55°	3580.1	3497.4	3441.4	3347.8	3289.9	3212.1	3166.5	3081.8	2986.7	2897.6	2806.0
57.5°	4404.8	4281.0	4217.1	4164.1	4074.0	3946.2	3864.9	3725.8	3590.0	3494.9	3342.4
60°	5647.1	5521.3	5415.3	5290.0	5151.8	4978.4	4901.1	4737.2	4543.0	4386.0	4184.4
62.5°	6421.3	6247.4	6075.5	5899.7	5761.0	5625.3	5465.3	5299.9	5107.7	4894.2	4673.8
65°	6452.5	6243.9	6038.4	5859.1	5696.6	5520.3	5370.2	5202.3	5000.2	4780.3	4551.4
67.5°	6128.5	5895.2	5674.8	5478.2	5292.4	5129.0	4972.0	4814.0	4597.5	4413.3	4179.0
70°	5483.1	5270.2	5070.5	4846.7	4704.5	4520.7	4367.7	4201.3	4046.2	3873.9	3654.4
72.5°	4027.4	3866.9	3639.1	3544.0	3467.7	3273.0	3159.1	3145.2	3046.2	2839.6	2675.7
75°	1497.8	1274.9	1207.6	1247.7	1180.8	1203.1	1194.7	1147.1	1149.1	1114.0	1072.4
77.5°	293.2	272.4	256.1	260.5	242.2	234.3	251.1	246.2	237.3	239.7	235.8
80°	199.6	168.9	153.1	147.1	139.7	136.2	135.2	133.7	130.8	129.3	124.8
82.5°	196.6	146.1	115.4	99.1	93.1	90.1	87.7	87.2	86.2	85.7	87.2
85°	78.3	63.4	58.0	53.0	51.5	50.0	50.0	49.5	49.0	50.0	52.0
87.5°	38.1	32.2	29.2	26.7	25.8	25.3	25.3	25.8	26.3	28.2	32.2
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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CATALOG NUMBER: VAL-F03-LED-E-U-GL2

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	788.0	788.0	788.0	788.0	788.0	788.0	788.0	788.0	788.0	788.0	788.0
2.5°	793.5	794.0	793.0	793.5	793.0	792.0	791.5	793.0	792.5	792.0	792.0
5°	813.8	815.8	814.8	813.8	813.8	813.3	813.3	813.3	812.8	813.3	811.8
7.5°	849.0	848.5	848.5	847.5	846.5	847.5	847.0	845.5	846.0	845.0	843.5
10°	894.0	892.6	895.0	895.0	893.1	892.6	891.6	890.1	890.1	888.6	888.6
12.5°	947.5	946.1	949.5	947.0	944.1	943.6	940.6	939.6	941.1	940.6	939.6
15°	1002.0	1002.5	1004.0	1003.5	1000.0	1000.0	996.1	996.6	993.6	992.6	990.1
17.5°	1055.0	1055.5	1054.0	1054.0	1051.6	1050.1	1045.6	1046.1	1044.1	1040.2	1037.2
20°	1102.6	1102.1	1098.6	1101.6	1096.6	1095.6	1091.7	1087.7	1088.7	1084.7	1078.8
22.5°	1149.1	1148.1	1147.1	1145.7	1143.2	1142.2	1137.7	1137.2	1132.3	1126.3	1121.4
25°	1203.1	1202.6	1201.1	1201.6	1196.7	1197.2	1189.3	1187.3	1184.3	1177.9	1173.9
27.5°	1273.0	1273.0	1269.0	1267.5	1266.0	1264.0	1257.1	1252.2	1244.7	1237.3	1229.4
30°	1358.6	1357.7	1356.7	1352.7	1347.3	1344.3	1331.9	1324.0	1314.1	1300.2	1288.3
32.5°	1481.0	1472.6	1465.6	1456.7	1447.8	1438.4	1419.1	1405.7	1389.9	1367.6	1348.7
35°	1617.2	1602.8	1595.4	1577.1	1560.2	1541.4	1518.1	1490.9	1469.1	1439.9	1409.2
37.5°	1729.6	1718.7	1698.9	1678.1	1654.4	1618.7	1592.4	1563.2	1525.1	1492.9	1455.7
40°	1868.3	1843.6	1815.3	1780.7	1748.0	1707.8	1671.7	1629.6	1583.0	1536.5	1487.9
42.5°	2014.0	1975.8	1929.3	1889.1	1839.6	1787.1	1740.0	1683.1	1623.6	1561.2	1496.3
45°	2162.5	2115.5	2053.6	1996.6	1927.8	1861.9	1794.5	1716.8	1635.5	1552.3	1470.6
47.5°	2298.8	2229.9	2159.6	2082.8	2003.5	1918.9	1823.3	1721.2	1614.2	1504.8	1402.7
50°	2405.7	2319.6	2230.9	2142.2	2045.2	1935.2	1814.8	1681.6	1549.8	1418.6	1301.2
52.5°	2500.3	2403.8	2294.8	2184.8	2065.0	1929.7	1779.2	1622.2	1461.7	1316.5	1184.8
55°	2683.6	2562.3	2418.6	2277.0	2125.4	1955.0	1767.3	1575.1	1390.3	1232.3	1092.2
57.5°	3181.4	3017.5	2795.1	2598.4	2406.2	2158.1	1893.6	1656.8	1421.6	1234.8	1078.8
60°	3965.5	3698.5	3443.9	3144.3	2833.2	2492.9	2138.3	1819.3	1532.5	1298.2	1110.5
62.5°	4420.2	4138.4	3811.0	3447.9	3044.7	2630.1	2223.0	1850.5	1536.0	1280.9	1072.9
65°	4297.4	4014.0	3653.9	3282.5	2853.5	2429.5	2025.3	1667.7	1362.6	1126.8	927.7
67.5°	3932.8	3636.6	3298.3	2886.2	2476.1	2083.3	1714.8	1378.0	1108.0	888.1	712.3
70°	3402.3	3138.8	2812.9	2433.0	2035.2	1682.1	1371.5	1067.9	839.6	638.0	499.3
72.5°	2525.1	2291.8	2088.2	1770.8	1479.5	1202.6	949.5	743.0	546.3	413.1	318.0
75°	1060.0	981.2	948.0	831.6	723.2	592.9	446.3	355.6	288.3	245.2	194.7
77.5°	257.1	257.1	241.7	226.4	208.0	188.2	166.4	148.6	139.7	131.8	125.3
80°	124.8	123.8	119.9	119.4	115.9	111.4	109.0	105.5	104.0	102.0	101.0
82.5°	87.7	87.2	85.7	87.7	87.2	89.2	90.1	90.6	90.6	91.1	91.6
85°	55.5	57.5	61.4	66.4	70.8	76.3	81.2	85.2	88.2	90.6	92.6
87.5°	35.2	40.1	43.1	50.5	58.0	66.4	75.8	79.7	83.2	83.7	80.7
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: VAL-F03-LED-E-U-GL2

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	788.0	788.0	788.0	788.0	788.0	788.0	788.0	788.0	788.0	788.0	788.0
2.5°	792.0	791.5	792.5	791.5	791.5	791.0	789.5	788.0	786.6	786.1	784.6
5°	811.3	811.3	812.3	810.3	810.8	808.8	804.4	799.4	795.0	791.0	786.6
7.5°	844.0	842.5	843.0	842.5	841.5	837.6	827.7	815.3	803.4	791.0	781.1
10°	887.6	884.6	884.6	883.6	882.2	876.7	855.9	831.1	806.4	784.1	767.7
12.5°	936.1	936.6	932.7	930.2	927.7	916.3	885.1	845.5	806.4	770.7	744.5
15°	986.7	986.2	981.7	980.2	974.8	957.9	910.9	852.9	797.0	744.5	705.3
17.5°	1032.2	1030.3	1025.8	1022.8	1016.9	994.6	928.2	849.5	772.2	703.3	654.3
20°	1073.8	1071.4	1067.4	1062.0	1056.0	1023.8	934.7	831.6	733.1	654.3	604.8
22.5°	1116.9	1111.5	1107.0	1099.6	1093.2	1050.1	930.2	799.9	688.5	599.8	546.8
25°	1165.0	1158.5	1149.1	1140.2	1130.3	1071.4	917.8	760.3	635.0	540.9	487.4
27.5°	1217.0	1207.6	1195.2	1183.8	1168.0	1087.2	896.5	716.2	576.5	482.4	427.0
30°	1272.0	1254.6	1239.3	1221.9	1201.6	1094.6	865.8	661.7	512.2	423.0	367.5
32.5°	1325.5	1302.2	1279.4	1254.1	1226.4	1091.7	822.2	597.3	447.8	367.5	321.0
35°	1379.9	1346.3	1314.6	1280.4	1246.7	1076.8	762.3	526.0	386.8	321.5	287.8
37.5°	1417.1	1375.0	1332.9	1291.8	1251.2	1044.6	682.5	446.3	331.9	288.3	264.0
40°	1435.9	1384.4	1332.9	1281.9	1231.8	991.1	589.4	373.5	292.7	263.5	246.2
42.5°	1430.5	1366.6	1302.7	1242.2	1180.8	905.9	488.4	313.5	265.5	244.2	228.8
45°	1385.4	1309.1	1236.3	1172.4	1095.6	796.5	401.2	276.4	244.7	228.3	214.0
47.5°	1300.7	1215.5	1126.3	1054.0	982.2	669.7	333.8	253.1	226.4	213.0	198.6
50°	1192.7	1094.2	1005.0	926.7	856.4	551.3	287.8	233.3	211.5	200.1	184.8
52.5°	1073.8	967.8	886.6	804.4	735.5	460.1	255.6	211.5	197.1	185.2	172.9
55°	975.3	877.2	794.5	711.8	642.4	402.7	228.8	194.7	183.8	171.4	161.5
57.5°	949.0	837.1	746.9	668.7	597.3	367.5	209.5	179.3	171.9	162.5	151.6
60°	959.9	836.6	735.5	649.9	575.1	339.3	195.2	168.9	163.0	154.5	143.1
62.5°	920.8	790.5	688.5	597.3	526.5	303.6	184.8	163.9	160.0	148.6	135.7
65°	784.6	665.2	567.1	488.4	427.5	255.6	176.3	168.4	164.4	144.6	130.8
67.5°	597.3	497.8	419.0	360.1	316.0	211.5	174.4	183.3	175.3	146.6	129.3
70°	413.1	337.8	287.3	251.6	223.9	178.3	180.8	199.6	188.2	153.1	137.7
72.5°	262.0	218.9	194.2	180.8	167.4	150.6	179.3	197.6	182.3	154.0	137.7
75°	167.9	150.1	141.7	136.7	132.7	131.3	158.0	162.5	146.6	133.7	128.3
77.5°	118.9	115.9	114.4	113.9	114.4	117.9	130.8	122.3	106.5	107.0	110.0
80°	100.5	100.5	99.6	100.1	101.0	102.5	104.5	90.1	81.7	88.2	98.1
82.5°	92.1	93.6	94.6	95.6	97.1	95.1	88.7	68.4	65.9	85.7	96.1
85°	93.6	93.6	94.1	95.1	95.6	85.7	73.8	51.5	50.5	96.1	90.6
87.5°	80.2	79.3	75.8	73.3	69.8	58.9	49.0	28.7	29.7	59.4	63.4
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: P177423

CATALOG NUMBER: VAL-F03-LED-E-U-GL2

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	788.0	788.0
2.5°	784.1	784.1
5°	784.1	784.1
7.5°	777.6	775.7
10°	758.8	756.3
12.5°	730.1	727.6
15°	686.0	683.0
17.5°	631.0	626.1
20°	573.6	566.6
22.5°	516.1	510.7
25°	457.2	452.2
27.5°	399.2	394.3
30°	345.7	343.7
32.5°	306.1	304.1
35°	276.9	275.9
37.5°	257.1	256.1
40°	239.7	238.7
42.5°	223.9	222.4
45°	208.0	208.5
47.5°	192.2	191.7
50°	178.3	178.3
52.5°	166.9	166.4
55°	156.5	156.0
57.5°	146.1	145.6
60°	137.2	135.7
62.5°	128.8	127.8
65°	123.3	122.8
67.5°	119.4	117.9
70°	118.4	114.4
72.5°	115.4	110.5
75°	108.5	106.0
77.5°	95.6	92.6
80°	73.8	68.4
82.5°	61.9	53.5
85°	45.6	42.1
87.5°	33.2	26.3
90°	0.0	0.0

(END OF REPORT)