

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: P177513

Luminaire Tested: **VAL-F04-LED-E-U-GL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P177513
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-F04-LED-E-U-GL3
Description: VALET TUNNEL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE III W/ GLARE CONTROL
Light Source: (28) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9802.9 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 102.2
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

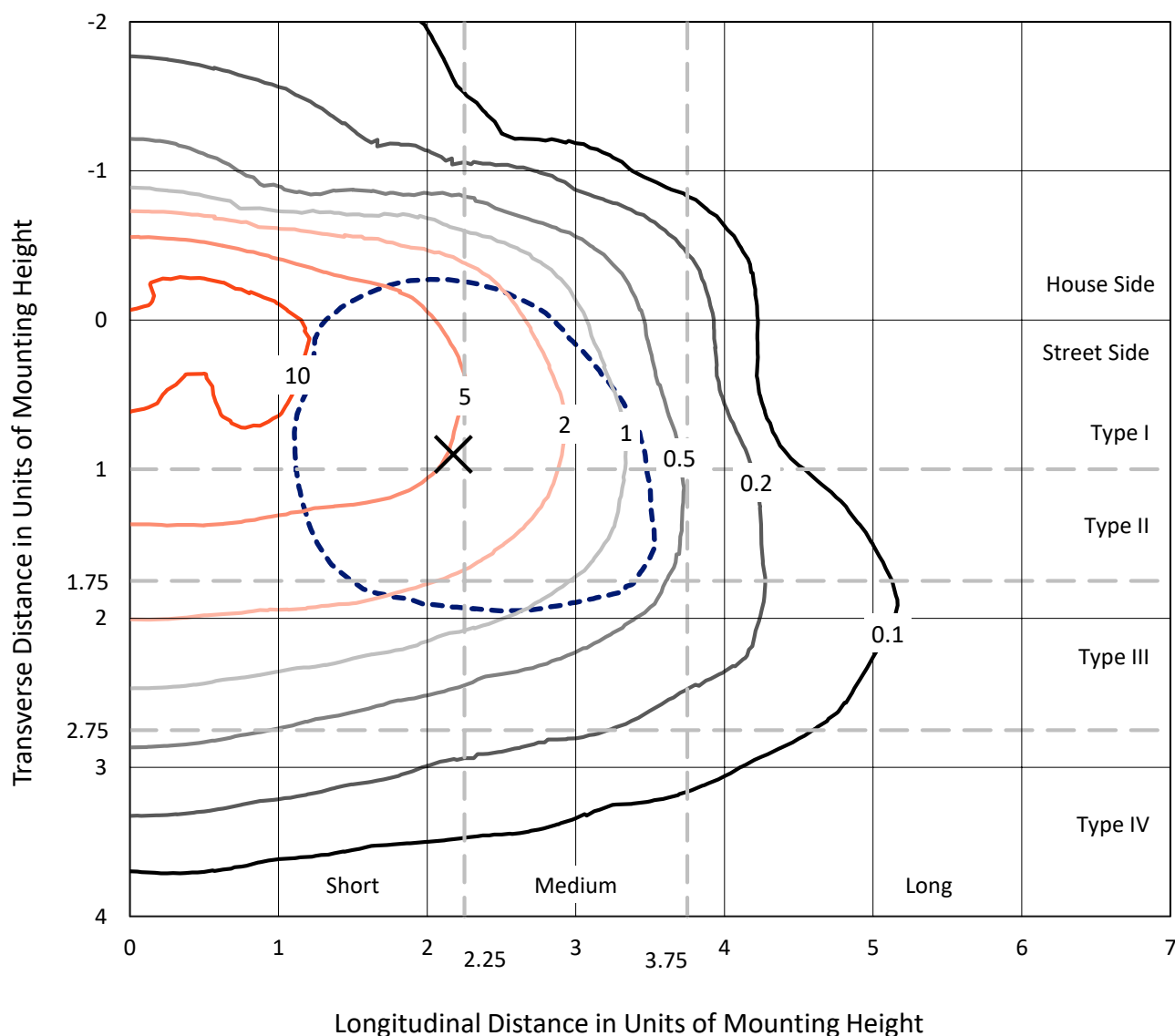


REPORT NUMBER: P177513

CATALOG NUMBER: VAL-F04-LED-E-U-GL3

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

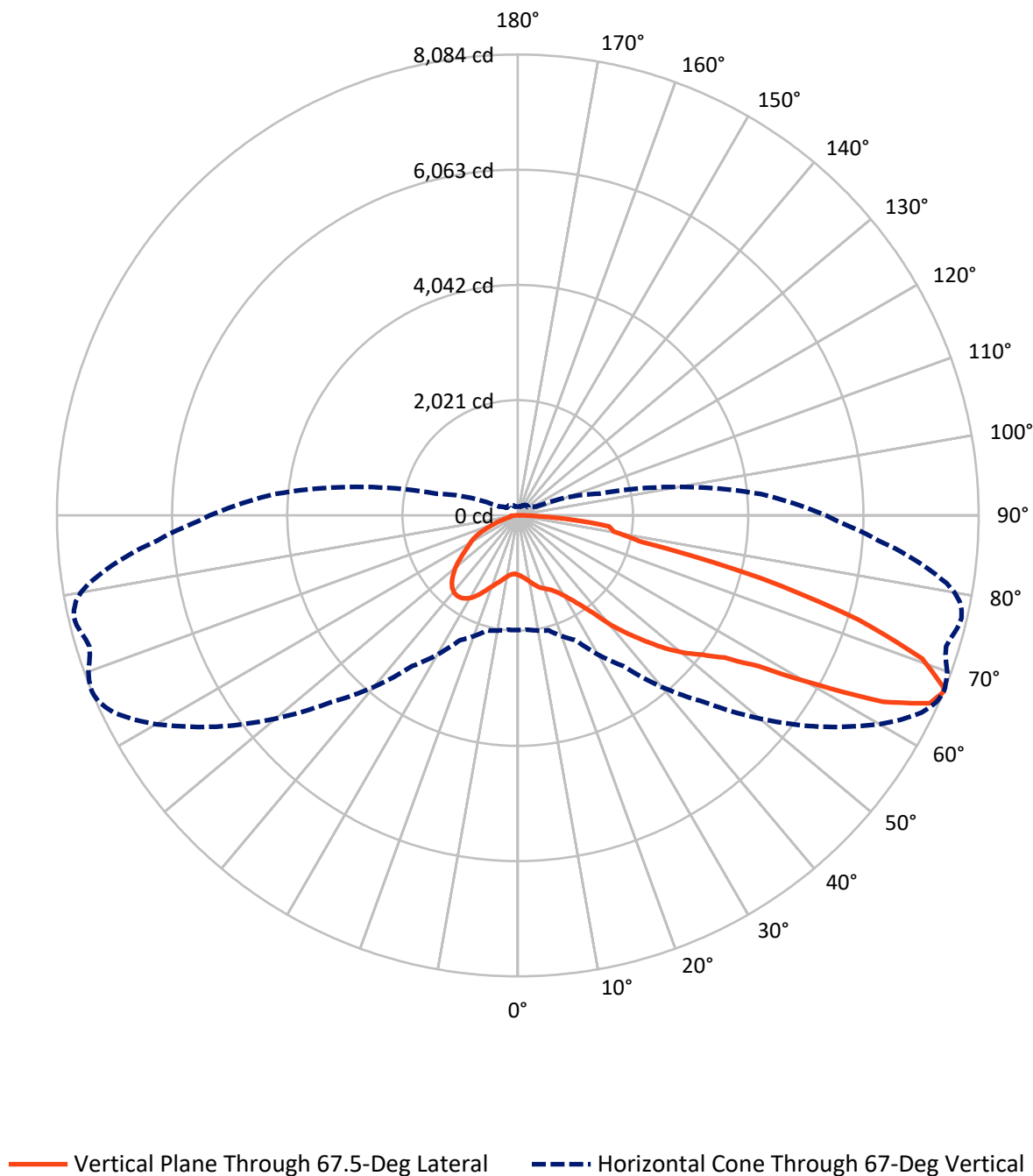


Based on 10 foot mounting height. Maximum calculated value = 13.2 fc
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P177513

CATALOG NUMBER: VAL-F04-LED-E-U-GL3

Luminous Intensity Polar Plot



REPORT NUMBER: P177513

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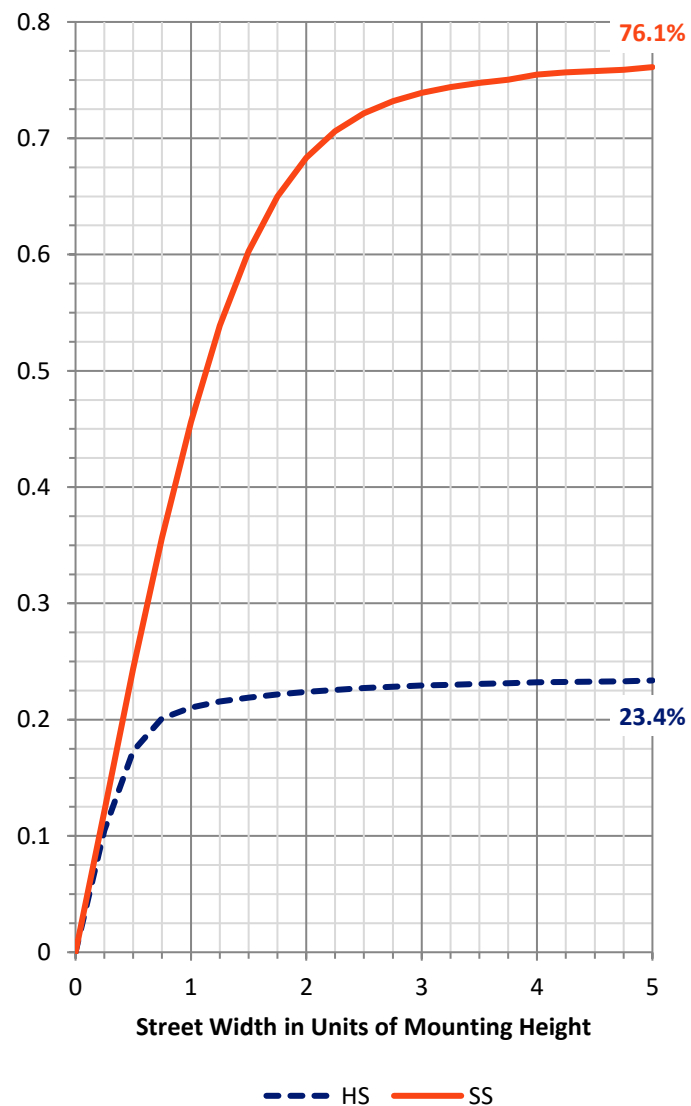
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2321.3	0.0	2321.3
	% Fixture	23.7	0.0	23.7
Street Side	Lumens	7481.6	0.0	7481.6
	% Fixture	76.3	0.0	76.3
Total	Lumens	9802.9	0.0	9802.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.1	1.1
10°-20°	356.4	3.6
20°-30°	634.5	6.5
30°-40°	924.2	9.4
40°-50°	1424.0	14.5
50°-60°	2085.5	21.3
60°-70°	2769.3	28.3
70°-80°	1305.4	13.3
80°-90°	199.6	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°	9802.9	100.0
0°-180°	9802.9	100.0

Coefficient of Utilization



REPORT NUMBER: P177513

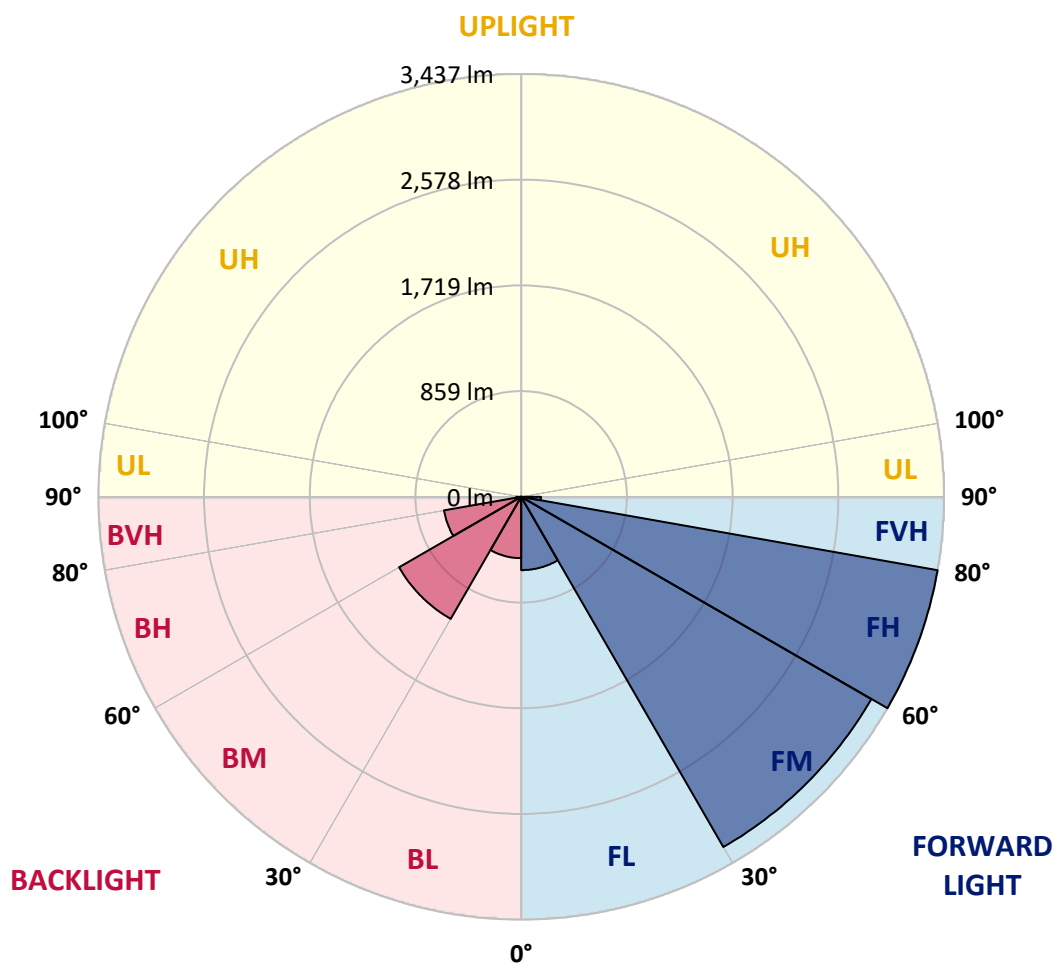
CATALOG NUMBER: VAL-F04-LED-E-U-GL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	595.9	6.1			
FM	(30°-60°)	3287.4	33.5			
FH	(60°-80°)	3437.4	35.1			G2/5000
FVH	(80°-90°)	160.8	1.6			G2/225
BL	(0°-30°)	499.0	5.1	B1/500		
BM	(30°-60°)	1146.3	11.7	B2/2500		
BH	(60°-80°)	637.3	6.5	B2/1000		G2/1000
BVH	(80°-90°)	38.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





REPORT NUMBER: P177513

CATALOG NUMBER: VAL-F04-LED-E-U-GL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8
2.5°	1095.0	1090.4	1091.0	1093.0	1086.4	1083.1	1075.8	1071.2	1070.5	1069.9	1067.2
5°	1159.0	1154.4	1156.4	1151.1	1138.6	1130.0	1114.8	1106.9	1105.5	1104.2	1100.9
7.5°	1225.7	1219.8	1213.2	1207.2	1193.4	1179.5	1159.7	1147.8	1146.5	1144.5	1142.5
10°	1305.0	1296.4	1291.1	1272.6	1248.9	1229.7	1209.9	1197.3	1196.7	1194.7	1190.7
12.5°	1394.1	1384.9	1375.0	1350.6	1313.6	1285.2	1262.1	1254.8	1248.9	1249.5	1245.6
15°	1482.6	1472.7	1459.5	1428.5	1379.6	1337.4	1307.6	1297.1	1297.7	1294.4	1296.4
17.5°	1557.3	1548.7	1529.5	1489.9	1433.1	1375.0	1337.4	1332.7	1334.0	1333.4	1335.4
20°	1606.1	1600.9	1571.8	1524.2	1460.2	1396.1	1357.8	1357.8	1358.5	1361.1	1365.7
22.5°	1635.9	1627.9	1589.6	1522.9	1459.5	1406.0	1376.3	1382.9	1386.9	1388.9	1396.1
25°	1652.4	1642.5	1590.3	1501.8	1437.1	1413.3	1404.1	1420.6	1427.2	1430.5	1442.4
27.5°	1652.4	1640.5	1581.7	1475.4	1411.3	1435.1	1456.9	1485.3	1489.9	1499.8	1513.7
30°	1633.9	1624.6	1568.5	1455.6	1404.7	1476.0	1542.1	1574.4	1585.7	1596.9	1614.7
32.5°	1614.1	1606.1	1561.9	1466.1	1441.7	1561.9	1672.2	1716.4	1723.0	1732.3	1750.8
35°	1612.7	1610.1	1591.0	1533.5	1553.3	1719.1	1868.3	1898.7	1917.2	1921.8	1929.7
37.5°	1626.6	1631.9	1648.4	1642.5	1713.8	1952.9	2125.2	2186.0	2200.5	2192.6	2199.9
40°	1659.0	1672.2	1733.6	1809.6	1958.8	2235.5	2475.3	2545.3	2561.1	2556.5	2554.5
42.5°	1761.3	1779.2	1869.6	2032.1	2213.7	2528.1	2800.2	2875.5	2880.8	2883.4	2866.2
45°	1921.8	1931.7	2051.9	2259.3	2489.8	2843.1	3124.4	3208.3	3205.0	3191.8	3179.3
47.5°	2104.1	2124.6	2268.5	2519.5	2775.1	3134.4	3452.7	3534.6	3541.8	3529.9	3506.8
50°	2269.9	2285.7	2448.2	2746.0	3026.7	3376.7	3729.4	3811.9	3810.6	3817.2	3823.8
52.5°	2400.6	2415.2	2569.7	2897.3	3211.6	3580.1	3938.1	4039.8	4055.6	4066.2	4079.4
55°	2468.0	2483.2	2625.8	2960.0	3323.9	3778.9	4179.1	4325.1	4352.2	4375.9	4397.7
57.5°	2469.3	2489.1	2619.9	2955.4	3382.0	3956.6	4498.1	4760.3	4798.6	4859.4	4934.0
60°	2429.0	2456.8	2574.3	2912.5	3448.7	4181.8	5023.8	5525.7	5601.0	5707.3	5803.1
62.5°	2324.0	2351.8	2456.8	2803.5	3526.6	4470.4	5783.3	6519.0	6679.5	6797.0	6986.6
65°	2158.3	2184.7	2273.2	2623.2	3464.6	4698.2	6349.3	7231.6	7395.4	7542.7	7765.2
67°	2010.3	2013.0	2087.6	2416.5	3222.8	4627.6	6462.9	7326.7	7477.9	7627.2	7885.4
67.5°	1958.1	1972.7	2030.8	2347.8	3131.1	4575.4	6418.0	7275.2	7421.8	7581.0	7844.5
70°	1583.0	1587.0	1643.1	1873.0	2484.5	3793.5	5764.8	6618.1	6718.5	6951.6	7210.5
72.5°	965.5	958.9	976.8	1147.1	1635.2	2627.2	4615.7	5448.5	5585.8	5784.6	5959.6
75°	531.6	563.3	585.1	703.3	918.6	1544.7	3142.9	3942.0	4143.5	4261.7	4296.7
77.5°	324.9	322.3	332.2	453.7	753.5	1056.7	1736.2	2312.8	2425.1	2458.7	2328.6
80°	154.5	160.5	158.5	186.9	365.2	891.6	1213.9	1485.3	1542.1	1574.4	1616.7
82.5°	84.5	87.8	99.7	111.6	144.0	383.7	1047.4	1369.7	1408.0	1463.5	1525.6
85°	52.8	55.5	76.6	80.6	88.5	118.2	436.5	800.4	832.8	943.1	978.1
87.5°	21.8	23.8	41.6	37.6	44.9	41.6	132.1	203.4	216.0	229.8	254.9
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: P177513

CATALOG NUMBER: VAL-F04-LED-E-U-GL3

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	67.5°	68°	69°	70°	71°	72°	73°	74°
0°	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8
2.5°	1067.9	1067.2	1064.6	1063.9	1065.3	1065.3	1063.9	1062.0	1061.3	1060.6	1059.3
5°	1099.6	1098.3	1096.3	1095.0	1094.3	1094.3	1092.3	1090.4	1088.4	1085.7	1085.1
7.5°	1137.2	1137.2	1136.6	1134.6	1132.6	1130.0	1128.0	1126.0	1124.0	1122.7	1120.7
10°	1186.8	1189.4	1184.8	1183.5	1182.8	1178.8	1178.2	1176.2	1174.9	1171.6	1171.6
12.5°	1245.6	1242.9	1242.2	1239.6	1239.6	1237.6	1237.0	1236.3	1235.0	1232.3	1231.7
15°	1294.4	1294.4	1293.8	1292.4	1293.8	1292.4	1290.5	1291.8	1289.8	1290.5	1288.5
17.5°	1334.0	1336.7	1336.0	1336.7	1336.0	1336.0	1337.4	1337.4	1338.7	1336.0	1336.7
20°	1367.1	1371.0	1373.0	1371.7	1373.0	1373.7	1377.0	1378.3	1380.3	1381.6	1381.6
22.5°	1401.4	1406.7	1410.7	1410.7	1413.3	1415.9	1421.9	1423.2	1427.8	1427.2	1430.5
25°	1449.6	1458.2	1460.8	1464.8	1468.1	1472.7	1480.0	1483.3	1485.3	1489.9	1495.2
27.5°	1523.6	1534.2	1536.1	1540.8	1549.3	1552.0	1559.9	1563.2	1570.5	1580.4	1582.4
30°	1624.6	1637.8	1638.5	1643.8	1653.7	1657.0	1663.6	1672.2	1678.1	1688.0	1688.7
32.5°	1762.0	1775.2	1773.2	1783.1	1782.5	1792.4	1790.4	1803.6	1808.9	1814.2	1828.7
35°	1944.9	1943.6	1953.5	1956.8	1954.8	1962.8	1961.4	1967.4	1972.7	1972.7	1988.5
37.5°	2208.4	2206.5	2205.1	2191.3	2188.0	2188.6	2186.0	2191.3	2182.7	2182.7	2199.9
40°	2561.8	2549.9	2540.6	2531.4	2522.1	2509.6	2499.0	2496.4	2481.9	2481.2	2474.6
42.5°	2868.9	2857.6	2851.0	2833.2	2824.0	2822.0	2796.2	2789.0	2785.0	2787.6	2781.0
45°	3191.1	3179.3	3154.2	3146.2	3143.6	3129.7	3125.8	3107.9	3102.7	3111.9	3108.6
47.5°	3523.3	3506.2	3492.3	3483.1	3479.8	3467.9	3450.7	3465.2	3458.0	3452.7	3442.8
50°	3821.9	3802.7	3802.7	3786.2	3788.8	3780.9	3763.1	3767.0	3746.6	3754.5	3749.2
52.5°	4072.1	4073.5	4080.1	4061.6	4064.9	4064.9	4058.9	4039.8	4045.1	4042.4	4055.0
55°	4390.5	4412.3	4400.4	4403.7	4407.6	4426.1	4439.3	4428.1	4409.6	4424.2	4464.4
57.5°	4947.2	4967.0	4978.9	4988.2	5003.3	5011.9	5083.3	5093.2	5072.0	5115.6	5205.4
60°	5915.4	5939.2	5974.8	6021.7	6031.6	6091.7	6128.7	6172.3	6188.1	6225.8	6322.2
62.5°	7079.7	7133.2	7139.8	7199.2	7245.5	7189.3	7203.9	7257.4	7196.6	7279.8	7283.8
65°	7841.8	7919.8	7922.4	7944.2	7961.4	7908.5	7884.8	7861.0	7803.5	7800.2	7857.7
67°	7972.6	8043.9	8073.6	8084.2	8081.6	8054.5	8015.5	7946.8	7891.4	7859.7	7883.4
67.5°	7935.6	8005.6	8047.2	8057.1	8057.8	8031.4	7995.7	7921.1	7868.9	7833.2	7858.3
70°	7328.0	7491.8	7563.1	7526.1	7547.3	7547.3	7546.0	7477.3	7451.5	7417.2	7404.0
72.5°	6093.0	6206.6	6297.1	6248.9	6254.8	6299.7	6289.2	6296.4	6222.5	6214.6	6092.4
75°	4364.7	4401.0	4370.7	4405.0	4220.1	4154.0	4041.8	3878.0	3835.1	3767.0	3563.6
77.5°	2318.7	2277.8	2196.6	2190.0	2114.0	2055.2	1982.6	1935.0	1814.8	1748.1	1595.6
80°	1637.8	1657.7	1688.7	1707.2	1724.4	1737.6	1710.5	1634.5	1534.2	1421.9	1315.6
82.5°	1564.5	1591.6	1610.1	1619.3	1612.7	1591.6	1529.5	1456.9	1322.8	1225.7	1110.8
85°	986.7	1008.5	970.8	962.9	979.4	846.0	772.7	713.3	577.9	537.6	474.8
87.5°	264.8	279.4	280.0	271.4	266.1	234.4	207.4	183.6	151.9	142.7	115.6
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: P177513

CATALOG NUMBER: VAL-F04-LED-E-U-GL3

CANDELA DISTRIBUTION (continued):

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8
2.5°	1059.3	1058.7	1058.7	1056.7	1055.4	1054.7	1054.0	1052.0	1050.7	1050.7	1050.1
5°	1084.4	1083.1	1081.1	1080.4	1077.8	1076.5	1073.8	1072.5	1070.5	1069.2	1068.6
7.5°	1120.1	1116.8	1112.8	1113.5	1109.5	1107.5	1106.2	1103.6	1101.6	1099.6	1098.9
10°	1167.6	1167.0	1163.0	1164.3	1157.1	1160.4	1153.8	1154.4	1150.5	1146.5	1145.8
12.5°	1228.4	1227.7	1223.8	1219.1	1217.8	1218.5	1214.5	1215.2	1210.5	1209.2	1207.9
15°	1286.5	1285.2	1283.2	1279.9	1277.9	1277.3	1275.9	1274.6	1270.6	1270.6	1266.0
17.5°	1336.7	1337.4	1334.7	1332.1	1330.7	1328.8	1328.1	1328.1	1324.8	1321.5	1322.2
20°	1380.9	1382.3	1382.3	1380.3	1380.9	1379.6	1379.0	1380.3	1377.0	1375.7	1373.7
22.5°	1430.5	1430.5	1431.1	1432.5	1434.4	1435.1	1435.1	1433.8	1431.8	1431.1	1427.2
25°	1499.2	1496.5	1499.8	1501.1	1501.1	1504.4	1503.1	1503.8	1504.4	1502.5	1500.5
27.5°	1585.7	1583.0	1589.6	1594.3	1593.6	1595.6	1599.5	1594.9	1597.6	1599.5	1594.9
30°	1692.0	1698.6	1703.2	1706.5	1705.2	1711.1	1713.1	1712.5	1710.5	1713.8	1713.8
32.5°	1827.4	1824.1	1836.0	1843.2	1843.9	1842.6	1845.9	1849.8	1846.5	1851.8	1849.2
35°	1988.5	1990.5	1993.1	2001.1	2004.4	1999.1	2004.4	2009.0	2007.7	2008.3	2011.0
37.5°	2196.6	2199.9	2197.2	2197.9	2196.6	2221.7	2225.6	2229.6	2225.0	2221.0	2232.9
40°	2485.2	2485.2	2484.5	2493.1	2478.6	2494.4	2489.8	2501.0	2512.9	2506.3	2524.1
42.5°	2769.1	2785.0	2786.3	2773.8	2784.3	2801.5	2801.5	2808.8	2819.3	2808.8	2825.9
45°	3094.7	3114.5	3111.2	3132.4	3116.5	3136.3	3139.6	3130.4	3153.5	3156.1	3149.5
47.5°	3450.0	3454.0	3454.7	3461.9	3465.2	3481.1	3480.4	3497.6	3492.3	3465.9	3475.1
50°	3754.5	3764.4	3769.7	3774.3	3790.8	3802.0	3817.2	3819.9	3815.9	3808.0	3800.7
52.5°	4058.9	4082.7	4097.9	4138.9	4164.6	4185.1	4210.2	4219.4	4214.8	4212.8	4183.8
55°	4466.4	4523.2	4611.1	4667.8	4729.9	4766.3	4795.3	4809.8	4799.3	4804.6	4744.5
57.5°	5233.8	5367.2	5443.8	5540.9	5650.6	5696.1	5708.7	5760.2	5703.4	5646.6	5601.0
60°	6374.4	6497.2	6636.6	6736.3	6773.3	6899.4	6840.0	6773.3	6712.5	6595.0	6462.2
62.5°	7404.0	7562.5	7633.8	7726.9	7701.8	7691.3	7651.6	7545.3	7415.2	7240.2	7063.2
65°	7911.8	8001.0	8045.2	8075.6	8047.2	7973.9	7843.1	7686.0	7499.7	7273.2	7040.7
67°	7932.3	7973.2	7987.8	7958.7	7895.3	7781.1	7616.0	7393.4	7164.2	6904.7	6643.2
67.5°	7898.6	7925.7	7933.0	7887.4	7812.1	7688.6	7512.3	7274.5	7030.8	6761.4	6498.5
70°	7439.0	7419.2	7355.1	7292.4	7057.2	6891.5	6584.4	6330.8	5992.7	5745.0	5464.3
72.5°	6043.5	5953.0	5890.9	5613.6	5329.6	5165.1	4834.9	4531.8	4223.4	3987.6	3815.2
75°	3392.6	3326.5	3154.2	3007.6	2773.1	2558.5	2404.6	2211.7	2026.8	1917.2	1836.6
77.5°	1532.8	1344.0	1213.9	1049.4	848.0	681.6	505.9	467.6	398.9	381.7	344.1
80°	1196.0	1060.6	890.2	702.0	495.3	332.9	244.4	207.4	194.8	186.9	182.9
82.5°	997.9	822.2	692.1	491.4	314.4	211.3	159.2	144.0	134.7	128.1	122.2
85°	426.6	337.5	278.0	198.8	141.3	111.6	97.7	89.2	80.6	73.3	68.7
87.5°	99.7	76.6	70.0	59.4	56.1	55.5	54.8	52.2	48.9	44.9	40.3
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: P177513

CATALOG NUMBER: VAL-F04-LED-E-U-GL3

CANDELA DISTRIBUTION (continued):

	86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°
0°	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8
2.5°	1049.4	1048.7	1047.4	1045.4	1045.4	1042.8	1034.2	1028.3	1021.7	1017.7	1013.7
5°	1067.2	1066.6	1063.3	1061.3	1060.0	1054.7	1040.2	1028.9	1017.0	1008.5	1001.9
7.5°	1097.0	1095.0	1092.3	1091.0	1087.1	1080.4	1059.3	1043.5	1026.3	1012.4	1001.2
10°	1145.2	1141.9	1137.9	1133.9	1135.3	1124.7	1100.3	1077.1	1052.0	1030.3	1015.1
12.5°	1203.9	1203.9	1202.0	1199.3	1194.7	1182.8	1149.8	1122.7	1092.3	1065.3	1054.0
15°	1266.0	1262.7	1259.4	1255.5	1254.8	1238.9	1209.2	1178.2	1146.5	1123.4	1110.2
17.5°	1316.9	1318.2	1313.6	1312.3	1310.9	1295.1	1263.4	1235.6	1212.5	1188.1	1167.0
20°	1371.0	1368.4	1367.1	1365.1	1364.4	1351.2	1326.1	1309.0	1288.5	1251.5	1196.0
22.5°	1429.1	1425.8	1427.2	1423.2	1422.5	1413.3	1394.8	1389.5	1359.1	1281.2	1184.8
25°	1504.4	1498.5	1500.5	1500.5	1501.1	1492.5	1490.6	1481.3	1404.7	1274.0	1139.9
27.5°	1594.3	1596.9	1596.9	1596.2	1591.6	1594.3	1603.5	1571.8	1420.6	1235.6	1072.5
30°	1711.1	1712.5	1713.8	1718.4	1708.5	1725.7	1736.9	1635.9	1408.7	1182.8	988.0
32.5°	1853.1	1847.9	1850.5	1853.1	1856.4	1874.3	1867.7	1668.2	1373.7	1110.8	883.0
35°	2009.7	2019.6	2022.2	2028.1	2034.8	2061.8	1985.9	1674.8	1320.2	1014.4	748.9
37.5°	2242.8	2258.6	2258.6	2279.8	2267.2	2300.2	2091.5	1659.0	1238.9	880.3	597.7
40°	2536.7	2543.9	2551.2	2553.8	2547.2	2543.3	2160.9	1620.0	1124.7	711.9	437.2
42.5°	2836.5	2833.9	2834.5	2839.1	2821.3	2746.7	2203.8	1552.0	982.7	531.6	313.7
45°	3159.4	3148.2	3144.9	3135.7	3119.8	2962.6	2228.3	1456.2	795.8	373.8	246.3
47.5°	3473.8	3459.9	3438.8	3413.1	3382.7	3136.3	2225.6	1332.1	610.2	267.5	217.3
50°	3796.1	3771.7	3726.1	3701.0	3649.5	3308.7	2210.4	1194.0	439.2	221.2	203.4
52.5°	4164.6	4121.0	4078.8	4028.6	3943.4	3520.7	2187.3	1038.8	320.3	202.7	194.2
55°	4714.1	4642.8	4573.4	4469.1	4386.5	3804.7	2148.3	871.8	252.9	195.5	188.9
57.5°	5471.6	5350.1	5262.2	5121.6	4989.5	4197.6	2106.7	719.9	225.9	193.5	186.2
60°	6324.2	6141.2	5977.5	5804.4	5653.9	4688.3	2084.9	601.0	219.9	195.5	186.9
62.5°	6859.1	6643.2	6438.4	6227.1	6010.5	4922.8	1990.5	519.1	222.6	204.1	192.2
65°	6791.8	6553.3	6330.8	6073.2	5869.2	4701.5	1750.1	439.2	227.2	219.3	206.7
67°	6337.4	6106.2	5852.6	5600.4	5402.2	4280.8	1477.4	369.8	232.5	236.4	222.6
67.5°	6215.9	5955.7	5700.1	5468.3	5253.6	4150.7	1406.0	352.7	233.8	241.1	227.8
70°	5183.6	4977.6	4678.4	4506.7	4351.5	3364.8	1048.7	274.1	237.8	261.5	252.9
72.5°	3627.0	3427.6	3271.1	3177.3	3086.8	2444.9	737.7	218.6	231.8	272.8	264.2
75°	1832.0	1786.4	1731.6	1701.2	1702.6	1421.2	444.5	186.2	217.9	261.5	239.7
77.5°	361.9	352.7	356.6	390.3	384.4	437.9	220.6	157.8	185.6	201.4	172.4
80°	175.0	169.1	163.8	162.5	159.2	152.6	138.7	131.4	150.6	132.7	114.3
82.5°	113.6	107.0	104.3	99.1	99.7	108.3	120.9	126.1	122.2	91.8	77.3
85°	64.1	63.4	62.1	63.4	66.0	86.5	129.4	118.2	98.4	64.7	58.1
87.5°	38.3	36.3	37.0	37.6	39.0	64.1	102.4	85.2	62.7	33.7	34.3
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: P177513

CATALOG NUMBER: VAL-F04-LED-E-U-GL3

CANDELA DISTRIBUTION (continued):

	155°	165°	175°	180°
0°	1042.8	1042.8	1042.8	1042.8
2.5°	1013.1	1010.4	1010.4	1009.8
5°	996.6	992.6	992.0	992.0
7.5°	993.9	988.6	988.0	986.0
10°	1005.8	1003.8	1004.5	1002.5
12.5°	1043.5	1046.1	1048.7	1048.7
15°	1100.9	1098.9	1102.2	1098.9
17.5°	1143.2	1126.0	1122.1	1120.1
20°	1144.5	1108.8	1097.0	1095.0
22.5°	1103.6	1050.7	1030.9	1027.6
25°	1034.2	967.5	942.4	939.8
27.5°	947.0	872.4	835.4	834.1
30°	842.0	753.5	706.6	699.4
32.5°	713.9	608.9	559.4	543.5
35°	566.0	458.3	412.1	410.8
37.5°	422.7	338.8	309.1	307.8
40°	309.7	266.1	254.9	252.9
42.5°	252.9	235.1	230.5	228.5
45°	226.5	219.3	216.6	214.6
47.5°	210.7	206.1	204.1	204.1
50°	198.1	196.8	195.5	195.5
52.5°	189.5	188.9	187.6	186.9
55°	182.3	179.6	180.3	179.6
57.5°	177.7	173.7	173.7	173.7
60°	175.0	167.7	167.7	168.4
62.5°	175.7	164.4	163.8	163.8
65°	181.0	162.5	158.5	159.2
67°	187.6	160.5	152.6	151.9
67.5°	189.5	159.2	150.6	149.9
70°	197.5	155.2	140.7	139.3
72.5°	198.8	149.3	130.8	129.4
75°	184.9	141.3	122.8	119.5
77.5°	144.0	121.5	111.0	111.0
80°	101.0	93.1	79.3	78.6
82.5°	74.0	70.0	58.1	56.8
85°	54.2	50.9	42.9	42.9
87.5°	33.7	32.4	27.7	26.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)