

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: P177514

Luminaire Tested: **VAL-F04-LED-E-U-GL3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P177514
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-GL3-7050
Description: VALET TUNNEL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE III W/ GLARE CONTROL
Light Source: (28) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10058.8 lumens
Efficiency: N/A
Efficacy: 98.4 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

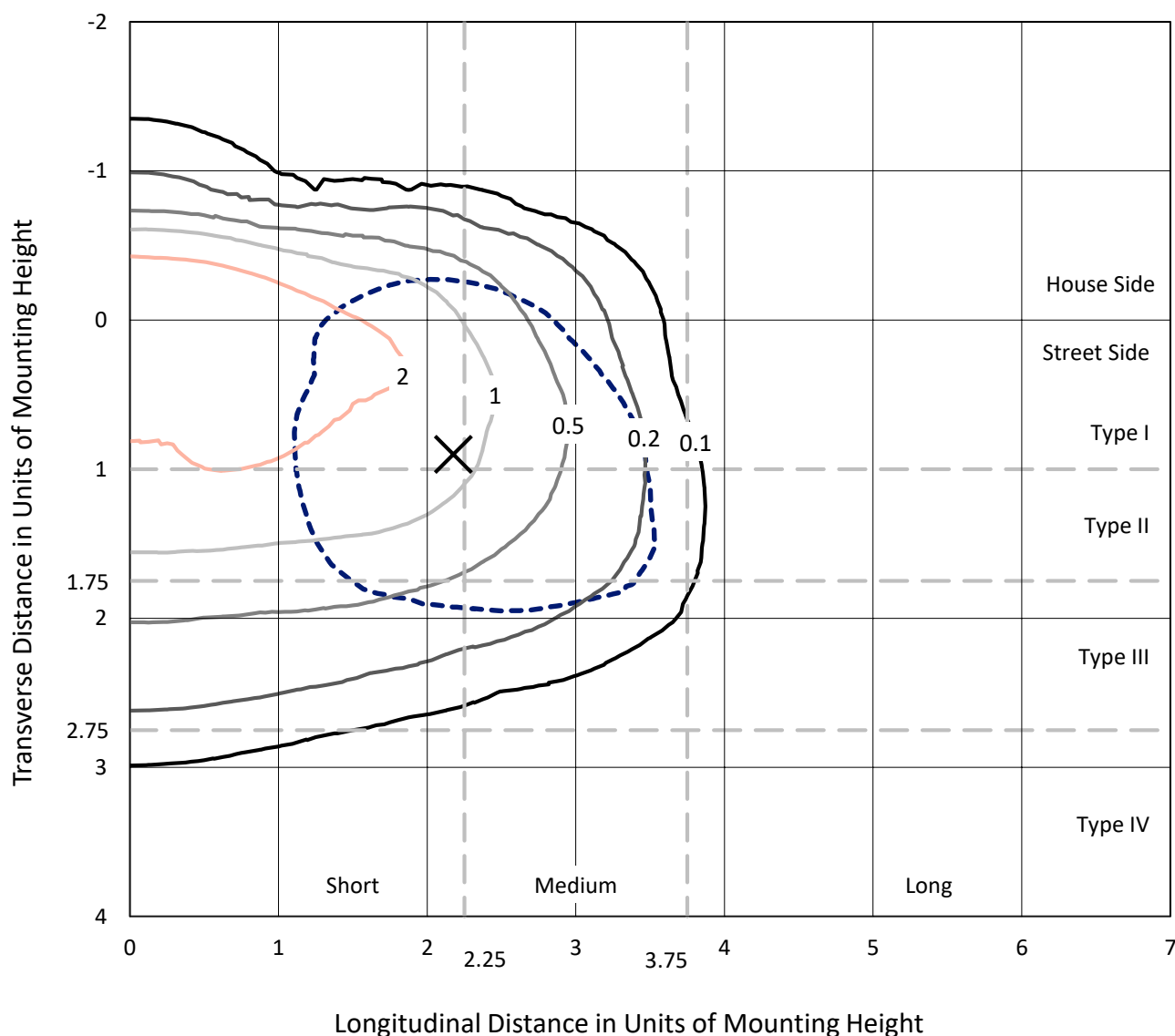


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

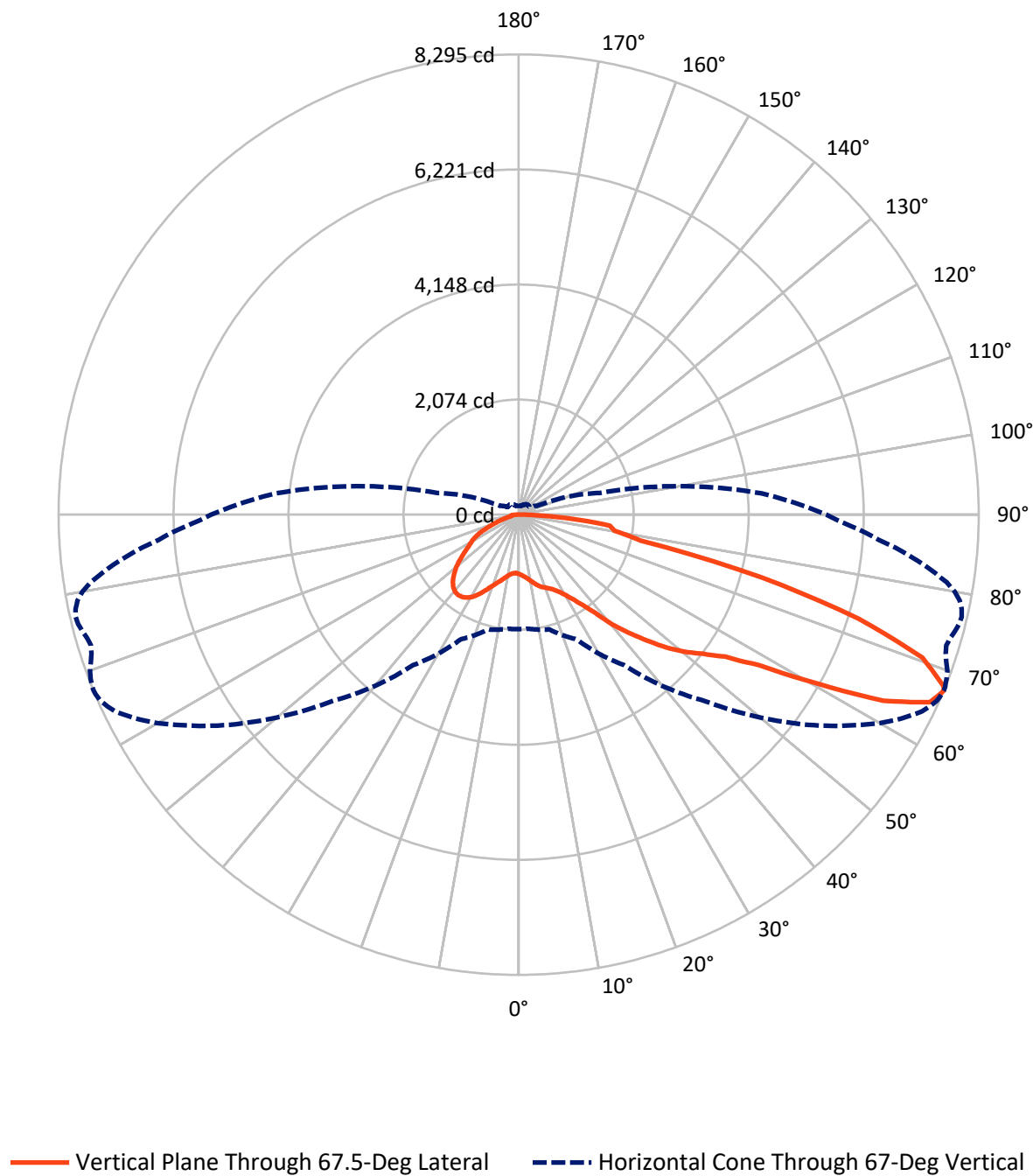


Based on 20 foot mounting height. Maximum calculated value = 3.4 fc
Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2381.9	0.0	2381.9
	% Fixture	23.7	0.0	23.7
Street Side	Lumens	7677.0	0.0	7677.0
	% Fixture	76.3	0.0	76.3
Total	Lumens	10058.8	0.0	10058.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	1.1
10°-20°	365.7	3.6
20°-30°	651.0	6.5
30°-40°	948.3	9.4
40°-50°	1461.2	14.5
50°-60°	2139.9	21.3
60°-70°	2841.6	28.3
70°-80°	1339.5	13.3
80°-90°	204.8	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°	10058.8	100.0
0°-180°	10058.8	100.0

Coefficient of Utilization



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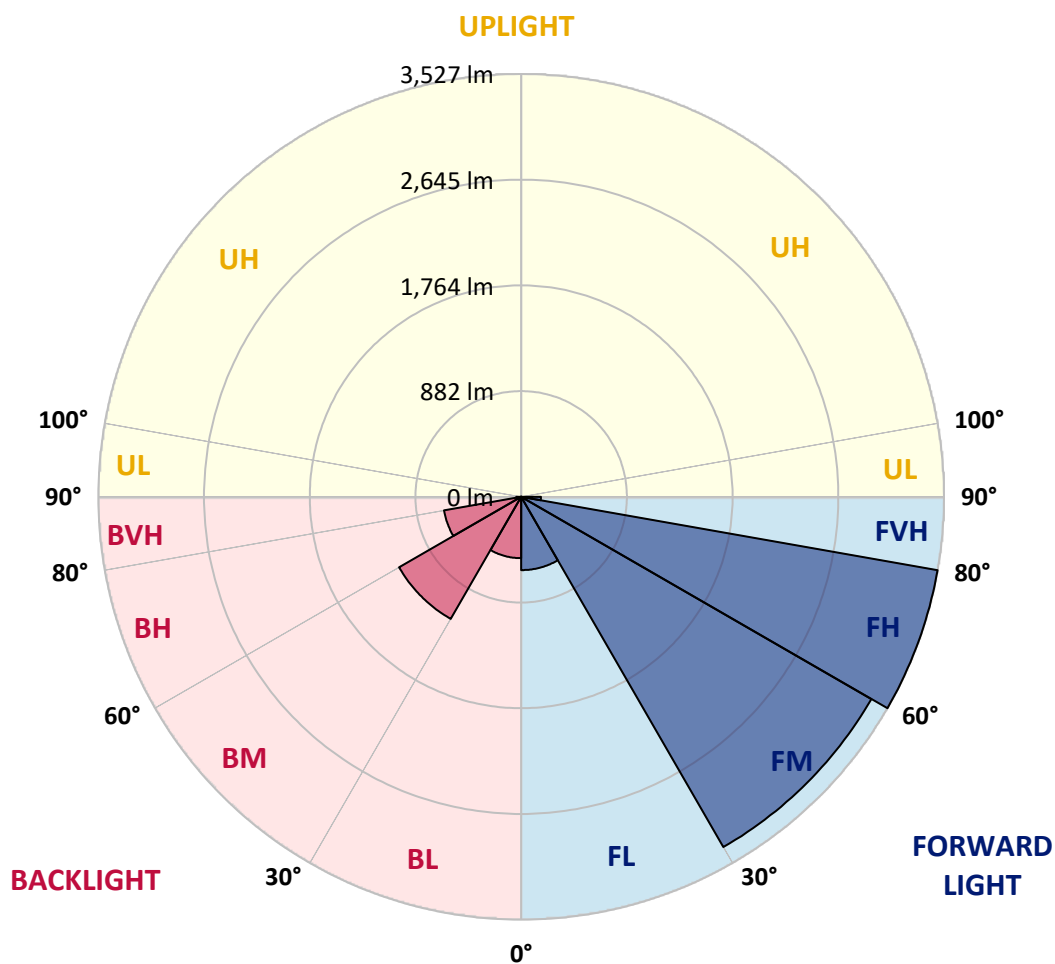
CATALOG NUMBER: VAL-F04-LED-E-U-GL3-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	611.5	6.1			
FM	(30°-60°)	3373.3	33.5			
FH	(60°-80°)	3527.2	35.1			G2/5000
FVH	(80°-90°)	165.0	1.6			G2/225
BL	(0°-30°)	512.0	5.1	B2/1000		
BM	(30°-60°)	1176.2	11.7	B2/2500		
BH	(60°-80°)	653.9	6.5	B2/1000		G2/1000
BVH	(80°-90°)	39.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0
2.5°	1123.6	1118.8	1119.5	1121.5	1114.8	1111.4	1103.9	1099.2	1098.5	1097.8	1095.1
5°	1189.3	1184.6	1186.6	1181.2	1168.3	1159.5	1143.9	1135.8	1134.4	1133.0	1129.7
7.5°	1257.7	1251.6	1244.9	1238.8	1224.5	1210.3	1190.0	1177.8	1176.4	1174.4	1172.4
10°	1339.1	1330.2	1324.8	1305.9	1281.5	1261.8	1241.5	1228.6	1227.9	1225.9	1221.8
12.5°	1430.5	1421.1	1410.9	1385.8	1347.9	1318.7	1295.0	1287.6	1281.5	1282.1	1278.1
15°	1521.3	1511.2	1497.6	1465.8	1415.6	1372.3	1341.8	1330.9	1331.6	1328.2	1330.2
17.5°	1597.9	1589.1	1569.5	1528.8	1470.5	1410.9	1372.3	1367.5	1368.9	1368.2	1370.2
20°	1648.1	1642.6	1612.8	1564.0	1498.3	1432.6	1393.3	1393.3	1393.9	1396.7	1401.4
22.5°	1678.6	1670.4	1631.1	1562.7	1497.6	1442.7	1412.2	1419.0	1423.1	1425.1	1432.6
25°	1695.5	1685.3	1631.8	1541.0	1474.6	1450.2	1440.7	1457.6	1464.4	1467.8	1480.0
27.5°	1695.5	1683.3	1623.0	1513.9	1448.2	1472.6	1494.9	1524.1	1528.8	1539.0	1553.2
30°	1676.5	1667.0	1609.4	1493.6	1441.4	1514.6	1582.3	1615.5	1627.1	1638.6	1656.9
32.5°	1656.2	1648.1	1602.7	1504.4	1479.3	1602.7	1715.8	1761.2	1768.0	1777.5	1796.5
35°	1654.8	1652.1	1632.5	1573.5	1593.9	1764.0	1917.1	1948.3	1967.2	1972.0	1980.1
37.5°	1669.1	1674.5	1691.4	1685.3	1758.5	2003.8	2180.7	2243.1	2258.0	2249.8	2257.3
40°	1702.3	1715.8	1778.9	1856.8	2009.9	2293.9	2539.9	2611.7	2628.0	2623.2	2621.2
42.5°	1807.3	1825.6	1918.5	2085.2	2271.5	2594.1	2873.3	2950.5	2956.0	2958.7	2941.0
45°	1972.0	1982.2	2105.5	2318.3	2554.8	2917.3	3206.0	3292.1	3288.7	3275.1	3262.3
47.5°	2159.0	2180.0	2327.8	2585.3	2847.5	3216.2	3542.8	3626.8	3634.3	3622.1	3598.4
50°	2329.1	2345.4	2512.1	2817.7	3105.7	3464.9	3826.7	3911.5	3910.1	3916.9	3923.7
52.5°	2463.3	2478.2	2636.8	2972.9	3295.5	3673.6	4040.9	4145.2	4161.5	4172.4	4185.9
55°	2532.4	2548.0	2694.4	3037.3	3410.7	3877.6	4288.2	4438.0	4465.8	4490.2	4512.5
57.5°	2533.8	2554.1	2688.3	3032.5	3470.3	4059.9	4615.5	4884.6	4923.9	4986.2	5062.8
60°	2492.4	2520.9	2641.5	2988.5	3538.7	4290.9	5155.0	5670.0	5747.2	5856.3	5954.6
62.5°	2384.7	2413.1	2520.9	2876.7	3618.7	4587.1	5934.3	6689.2	6853.9	6974.5	7169.0
65°	2214.6	2241.7	2332.5	2691.7	3555.0	4820.9	6515.0	7420.4	7588.4	7739.6	7967.9
67°	2062.8	2065.5	2142.1	2479.6	3307.0	4748.4	6631.6	7518.0	7673.1	7826.3	8091.3
67.5°	2009.3	2024.2	2083.8	2409.1	3212.8	4694.8	6585.5	7465.1	7615.5	7778.9	8049.3
70°	1624.4	1628.4	1686.0	1921.8	2549.4	3892.5	5915.3	6790.8	6893.8	7133.1	7398.7
72.5°	990.7	984.0	1002.3	1177.1	1677.9	2695.7	4736.2	5590.7	5731.7	5935.6	6115.2
75°	545.5	578.0	600.4	721.7	942.6	1585.0	3225.0	4045.0	4251.6	4372.9	4408.9
77.5°	333.4	330.7	340.9	465.6	773.2	1084.3	1781.6	2373.2	2488.4	2522.9	2389.4
80°	158.6	164.7	162.6	191.8	374.7	914.8	1245.5	1524.1	1582.3	1615.5	1658.9
82.5°	86.7	90.1	102.3	114.5	147.7	393.7	1074.8	1405.5	1444.8	1501.7	1565.4
85°	54.2	56.9	78.6	82.7	90.8	121.3	447.9	821.3	854.5	967.7	1003.6
87.5°	22.4	24.4	42.7	38.6	46.1	42.7	135.5	208.7	221.6	235.8	261.6
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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CATALOG NUMBER: VAL-F04-LED-E-U-GL3-7050

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	67.5°	68°	69°	70°	71°	72°	73°	74°
0°	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0
2.5°	1095.8	1095.1	1092.4	1091.7	1093.1	1093.1	1091.7	1089.7	1089.0	1088.3	1087.0
5°	1128.3	1126.9	1124.9	1123.6	1122.9	1122.9	1120.9	1118.8	1116.8	1114.1	1113.4
7.5°	1166.9	1166.9	1166.3	1164.2	1162.2	1159.5	1157.4	1155.4	1153.4	1152.0	1150.0
10°	1217.8	1220.5	1215.7	1214.4	1213.7	1209.6	1208.9	1206.9	1205.6	1202.2	1202.2
12.5°	1278.1	1275.4	1274.7	1272.0	1272.0	1269.9	1269.3	1268.6	1267.2	1264.5	1263.8
15°	1328.2	1328.2	1327.5	1326.2	1327.5	1326.2	1324.1	1325.5	1323.5	1324.1	1322.1
17.5°	1368.9	1371.6	1370.9	1371.6	1370.9	1370.9	1372.3	1372.3	1373.6	1370.9	1371.6
20°	1402.8	1406.8	1408.9	1407.5	1408.9	1409.5	1412.9	1414.3	1416.3	1417.7	1417.7
22.5°	1438.0	1443.4	1447.5	1447.5	1450.2	1452.9	1459.0	1460.4	1465.1	1464.4	1467.8
25°	1487.5	1496.3	1499.0	1503.1	1506.4	1511.2	1518.6	1522.0	1524.1	1528.8	1534.2
27.5°	1563.4	1574.2	1576.2	1581.0	1589.8	1592.5	1600.6	1604.0	1611.5	1621.6	1623.7
30°	1667.0	1680.6	1681.3	1686.7	1696.9	1700.3	1707.0	1715.8	1721.9	1732.1	1732.8
32.5°	1808.0	1821.6	1819.5	1829.7	1829.0	1839.2	1837.1	1850.7	1856.1	1861.5	1876.4
35°	1995.7	1994.4	2004.5	2007.9	2005.9	2014.0	2012.7	2018.8	2024.2	2024.2	2040.4
37.5°	2266.1	2264.1	2262.7	2248.5	2245.1	2245.8	2243.1	2248.5	2239.7	2239.7	2257.3
40°	2628.6	2616.4	2607.0	2597.5	2588.0	2575.1	2564.3	2561.6	2546.6	2546.0	2539.2
42.5°	2943.8	2932.2	2925.5	2907.2	2897.7	2895.6	2869.2	2861.8	2857.7	2860.4	2853.6
45°	3274.5	3262.3	3236.5	3228.4	3225.7	3211.4	3207.4	3189.1	3183.6	3193.1	3189.7
47.5°	3615.3	3597.7	3583.5	3574.0	3570.6	3558.4	3540.8	3555.7	3548.2	3542.8	3532.6
50°	3921.6	3902.0	3902.0	3885.0	3887.7	3879.6	3861.3	3865.4	3844.4	3852.5	3847.1
52.5°	4178.5	4179.8	4186.6	4167.6	4171.0	4171.0	4164.9	4145.2	4150.7	4148.0	4160.8
55°	4505.1	4527.4	4515.3	4518.6	4522.7	4541.7	4555.2	4543.7	4524.7	4539.6	4581.0
57.5°	5076.4	5096.7	5108.9	5118.4	5134.0	5142.8	5216.0	5226.1	5204.4	5249.2	5341.3
60°	6069.8	6094.2	6130.8	6178.9	6189.1	6250.7	6288.7	6333.4	6349.7	6388.3	6487.2
62.5°	7264.5	7319.4	7326.2	7387.2	7434.6	7377.0	7391.9	7446.8	7384.5	7469.9	7473.9
65°	8046.5	8126.5	8129.2	8151.6	8169.2	8115.0	8090.6	8066.2	8007.2	8003.8	8062.8
67°	8180.7	8253.9	8284.4	8295.2	8292.5	8264.7	8224.8	8154.3	8097.4	8064.8	8089.2
67.5°	8142.8	8214.6	8257.3	8267.5	8268.1	8241.0	8204.4	8127.9	8074.3	8037.7	8063.5
70°	7519.3	7687.4	7760.6	7722.6	7744.3	7744.3	7742.9	7672.5	7646.0	7610.8	7597.3
72.5°	6252.1	6368.7	6461.5	6412.0	6418.1	6464.2	6453.4	6460.8	6384.9	6376.8	6251.4
75°	4478.7	4515.9	4484.8	4520.0	4330.3	4262.5	4147.3	3979.2	3935.2	3865.4	3656.7
77.5°	2379.3	2337.3	2253.9	2247.1	2169.2	2108.9	2034.3	1985.5	1862.2	1793.8	1637.2
80°	1680.6	1700.9	1732.8	1751.8	1769.4	1782.9	1755.1	1677.2	1574.2	1459.0	1349.9
82.5°	1605.4	1633.2	1652.1	1661.6	1654.8	1633.2	1569.5	1494.9	1357.4	1257.7	1139.8
85°	1012.4	1034.8	996.2	988.0	1005.0	868.1	792.9	731.9	593.0	551.6	487.2
87.5°	271.7	286.7	287.3	278.5	273.1	240.6	212.8	188.4	155.9	146.4	118.6
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):

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0
2.5°	1087.0	1086.3	1086.3	1084.3	1082.9	1082.2	1081.5	1079.5	1078.2	1078.2	1077.5
5°	1112.7	1111.4	1109.3	1108.7	1105.9	1104.6	1101.9	1100.5	1098.5	1097.1	1096.5
7.5°	1149.3	1145.9	1141.9	1142.5	1138.5	1136.4	1135.1	1132.4	1130.3	1128.3	1127.6
10°	1198.1	1197.4	1193.4	1194.7	1187.3	1190.6	1183.9	1184.6	1180.5	1176.4	1175.7
12.5°	1260.4	1259.8	1255.7	1251.0	1249.6	1250.3	1246.2	1246.9	1242.2	1240.8	1239.4
15°	1320.1	1318.7	1316.7	1313.3	1311.3	1310.6	1309.2	1307.9	1303.8	1303.8	1299.1
17.5°	1371.6	1372.3	1369.6	1366.8	1365.5	1363.5	1362.8	1362.8	1359.4	1356.0	1356.7
20°	1417.0	1418.3	1418.3	1416.3	1417.0	1415.6	1415.0	1416.3	1412.9	1411.6	1409.5
22.5°	1467.8	1467.8	1468.5	1469.8	1471.9	1472.6	1472.6	1471.2	1469.2	1468.5	1464.4
25°	1538.3	1535.6	1539.0	1540.3	1540.3	1543.7	1542.4	1543.0	1543.7	1541.7	1539.6
27.5°	1627.1	1624.4	1631.1	1635.9	1635.2	1637.2	1641.3	1636.6	1639.3	1641.3	1636.6
30°	1736.2	1742.9	1747.7	1751.1	1749.7	1755.8	1757.9	1757.2	1755.1	1758.5	1758.5
32.5°	1875.1	1871.7	1883.9	1891.4	1892.0	1890.7	1894.1	1898.1	1894.7	1900.2	1897.4
35°	2040.4	2042.5	2045.2	2053.3	2056.7	2051.3	2056.7	2061.4	2060.1	2060.8	2063.5
37.5°	2253.9	2257.3	2254.6	2255.3	2253.9	2279.6	2283.7	2287.8	2283.0	2279.0	2291.2
40°	2550.0	2550.0	2549.4	2558.2	2543.3	2559.5	2554.8	2566.3	2578.5	2571.7	2590.0
42.5°	2841.4	2857.7	2859.0	2846.2	2857.0	2874.6	2874.6	2882.1	2892.9	2882.1	2899.7
45°	3175.5	3195.8	3192.5	3214.1	3197.9	3218.2	3221.6	3212.1	3235.8	3238.5	3231.8
47.5°	3540.1	3544.2	3544.8	3552.3	3555.7	3571.9	3571.3	3588.9	3583.5	3556.4	3565.8
50°	3852.5	3862.7	3868.1	3872.8	3889.8	3901.3	3916.9	3919.6	3915.5	3907.4	3899.9
52.5°	4164.9	4189.3	4204.9	4246.9	4273.3	4294.3	4320.1	4329.6	4324.8	4322.8	4293.0
55°	4583.0	4641.3	4731.4	4789.7	4853.4	4890.7	4920.5	4935.4	4924.6	4930.0	4868.3
57.5°	5370.5	5507.3	5586.0	5685.6	5798.1	5844.8	5857.7	5910.6	5852.3	5794.0	5747.2
60°	6540.8	6666.8	6809.8	6912.1	6950.1	7079.5	7018.5	6950.1	6887.7	6767.1	6630.9
62.5°	7597.3	7759.9	7833.1	7928.6	7902.9	7892.0	7851.4	7742.3	7608.8	7429.2	7247.6
65°	8118.4	8209.9	8255.3	8286.4	8257.3	8182.1	8047.9	7886.6	7695.5	7463.1	7224.5
67°	8139.4	8181.4	8196.3	8166.5	8101.4	7984.2	7814.8	7586.4	7351.3	7084.9	6816.6
67.5°	8104.8	8132.6	8140.1	8093.3	8016.0	7889.3	7708.4	7464.4	7214.4	6937.9	6668.2
70°	7633.2	7612.8	7547.1	7482.7	7241.5	7071.4	6756.3	6496.1	6149.1	5895.0	5607.0
72.5°	6201.3	6108.4	6044.7	5760.1	5468.7	5300.0	4961.2	4650.1	4333.6	4091.7	3914.8
75°	3481.1	3413.4	3236.5	3086.1	2845.5	2625.3	2467.4	2269.5	2079.7	1967.2	1884.6
77.5°	1572.9	1379.0	1245.5	1076.8	870.1	699.3	519.1	479.8	409.3	391.7	353.1
80°	1227.2	1088.3	913.5	720.4	508.2	341.5	250.7	212.8	199.9	191.8	187.7
82.5°	1023.9	843.7	710.2	504.2	322.6	216.9	163.3	147.7	138.2	131.5	125.4
85°	437.8	346.3	285.3	204.0	145.0	114.5	100.3	91.5	82.7	75.2	70.5
87.5°	102.3	78.6	71.8	61.0	57.6	56.9	56.2	53.5	50.1	46.1	41.3
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-F04-LED-E-U-GL3-7050

CANDELA DISTRIBUTION (continued):

	86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°
0°	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0
2.5°	1076.8	1076.1	1074.8	1072.7	1072.7	1070.0	1061.2	1055.1	1048.3	1044.3	1040.2
5°	1095.1	1094.4	1091.0	1089.0	1087.6	1082.2	1067.3	1055.8	1043.6	1034.8	1028.0
7.5°	1125.6	1123.6	1120.9	1119.5	1115.4	1108.7	1087.0	1070.7	1053.1	1038.9	1027.3
10°	1175.1	1171.7	1167.6	1163.5	1164.9	1154.1	1129.0	1105.3	1079.5	1057.2	1041.6
12.5°	1235.4	1235.4	1233.3	1230.6	1225.9	1213.7	1179.8	1152.0	1120.9	1093.1	1081.5
15°	1299.1	1295.7	1292.3	1288.2	1287.6	1271.3	1240.8	1208.9	1176.4	1152.7	1139.1
17.5°	1351.3	1352.6	1347.9	1346.5	1345.2	1328.9	1296.4	1267.9	1244.2	1219.1	1197.4
20°	1406.8	1404.1	1402.8	1400.7	1400.0	1386.5	1360.7	1343.1	1322.1	1284.2	1227.2
22.5°	1466.5	1463.1	1464.4	1460.4	1459.7	1450.2	1431.2	1425.8	1394.6	1314.7	1215.7
25°	1543.7	1537.6	1539.6	1539.6	1540.3	1531.5	1529.5	1520.0	1441.4	1307.2	1169.6
27.5°	1635.9	1638.6	1638.6	1637.9	1633.2	1635.9	1645.4	1612.8	1457.6	1267.9	1100.5
30°	1755.8	1757.2	1758.5	1763.3	1753.1	1770.7	1782.2	1678.6	1445.4	1213.7	1013.8
32.5°	1901.5	1896.1	1898.8	1901.5	1904.9	1923.2	1916.4	1711.8	1409.5	1139.8	906.0
35°	2062.1	2072.3	2075.0	2081.1	2087.9	2115.7	2037.7	1718.5	1354.6	1040.9	768.5
37.5°	2301.3	2317.6	2317.6	2339.3	2326.4	2360.3	2146.2	1702.3	1271.3	903.3	613.3
40°	2602.9	2610.3	2617.8	2620.5	2613.7	2609.7	2217.3	1662.3	1154.1	730.5	448.6
42.5°	2910.6	2907.8	2908.5	2913.3	2895.0	2818.4	2261.4	1592.5	1008.4	545.5	321.9
45°	3241.9	3230.4	3227.0	3217.5	3201.3	3040.0	2286.4	1494.2	816.6	383.6	252.8
47.5°	3564.5	3550.3	3528.6	3502.1	3471.0	3218.2	2283.7	1366.8	626.2	274.5	223.0
50°	3895.2	3870.1	3823.4	3797.6	3744.8	3395.1	2268.1	1225.2	450.6	227.0	208.7
52.5°	4273.3	4228.6	4185.2	4133.7	4046.3	3612.6	2244.4	1066.0	328.7	208.0	199.2
55°	4837.1	4764.0	4692.8	4585.7	4501.0	3904.0	2204.4	894.5	259.5	200.6	193.8
57.5°	5614.4	5489.7	5399.6	5255.3	5119.7	4307.2	2161.7	738.6	231.8	198.6	191.1
60°	6489.3	6301.6	6133.5	5956.0	5801.5	4810.7	2139.4	616.7	225.7	200.6	191.8
62.5°	7038.2	6816.6	6606.5	6389.7	6167.4	5051.3	2042.5	532.6	228.4	209.4	197.2
65°	6969.1	6724.4	6496.1	6231.8	6022.4	4824.3	1795.8	450.6	233.1	225.0	212.1
67°	6502.8	6265.6	6005.4	5746.6	5543.3	4392.6	1515.9	379.5	238.5	242.6	228.4
67.5°	6378.1	6111.1	5848.9	5611.0	5390.8	4259.1	1442.7	361.9	239.9	247.3	233.8
70°	5319.0	5107.5	4800.5	4624.4	4465.1	3452.7	1076.1	281.2	244.0	268.4	259.5
72.5°	3721.7	3517.1	3356.5	3260.2	3167.4	2508.7	756.9	224.3	237.9	279.9	271.1
75°	1879.8	1833.1	1776.8	1745.7	1747.0	1458.3	456.1	191.1	223.6	268.4	246.0
77.5°	371.4	361.9	365.9	400.5	394.4	449.3	226.3	162.0	190.4	206.7	176.9
80°	179.6	173.5	168.1	166.7	163.3	156.5	142.3	134.9	154.5	136.2	117.2
82.5°	116.6	109.8	107.1	101.6	102.3	111.1	124.0	129.4	125.4	94.2	79.3
85°	65.7	65.1	63.7	65.1	67.8	88.8	132.8	121.3	101.0	66.4	59.6
87.5°	39.3	37.3	37.9	38.6	40.0	65.7	105.0	87.4	64.4	34.6	35.2
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: P177514

CATALOG NUMBER: VAL-F04-LED-E-U-GL3-7050

CANDELA DISTRIBUTION (continued):

	155°	165°	175°	180°
0°	1070.0	1070.0	1070.0	1070.0
2.5°	1039.5	1036.8	1036.8	1036.1
5°	1022.6	1018.5	1017.8	1017.8
7.5°	1019.9	1014.5	1013.8	1011.7
10°	1032.1	1030.0	1030.7	1028.7
12.5°	1070.7	1073.4	1076.1	1076.1
15°	1129.7	1127.6	1131.0	1127.6
17.5°	1173.0	1155.4	1151.3	1149.3
20°	1174.4	1137.8	1125.6	1123.6
22.5°	1132.4	1078.2	1057.8	1054.4
25°	1061.2	992.8	967.0	964.3
27.5°	971.8	895.2	857.2	855.9
30°	864.0	773.2	725.1	717.6
32.5°	732.6	624.8	574.0	557.7
35°	580.8	470.3	422.9	421.5
37.5°	433.7	347.6	317.1	315.8
40°	317.8	273.1	261.6	259.5
42.5°	259.5	241.2	236.5	234.5
45°	232.4	225.0	222.3	220.2
47.5°	216.2	211.4	209.4	209.4
50°	203.3	201.9	200.6	200.6
52.5°	194.5	193.8	192.5	191.8
55°	187.0	184.3	185.0	184.3
57.5°	182.3	178.2	178.2	178.2
60°	179.6	172.1	172.1	172.8
62.5°	180.3	168.7	168.1	168.1
65°	185.7	166.7	162.6	163.3
67°	192.5	164.7	156.5	155.9
67.5°	194.5	163.3	154.5	153.8
70°	202.6	159.3	144.3	143.0
72.5°	204.0	153.2	134.2	132.8
75°	189.7	145.0	126.0	122.7
77.5°	147.7	124.7	113.8	113.8
80°	103.7	95.6	81.3	80.6
82.5°	75.9	71.8	59.6	58.3
85°	55.6	52.2	44.0	44.0
87.5°	34.6	33.2	28.5	27.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)