

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: P177418

Luminaire Tested: **VAL-E03-LED-E-U-GL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P177418
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-E03-LED-E-U-GL2
Description: VALET TUNNEL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE II W/ GLARE CONTROL
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8783.9 lumens
Efficiency: N/A
Efficacy: 116.8 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: B2 - U0 - G2

Input Watts (W): 75.2
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

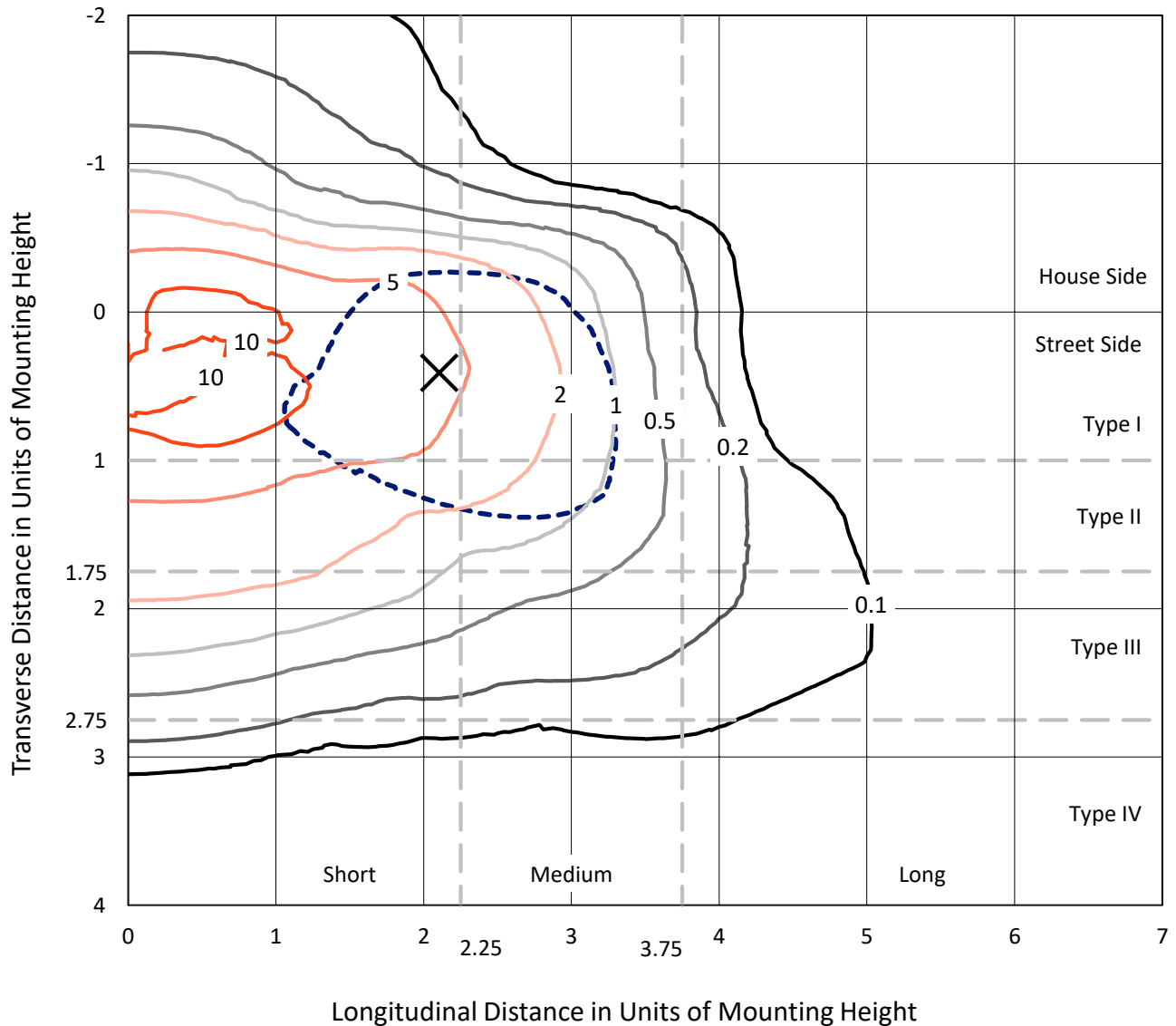


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

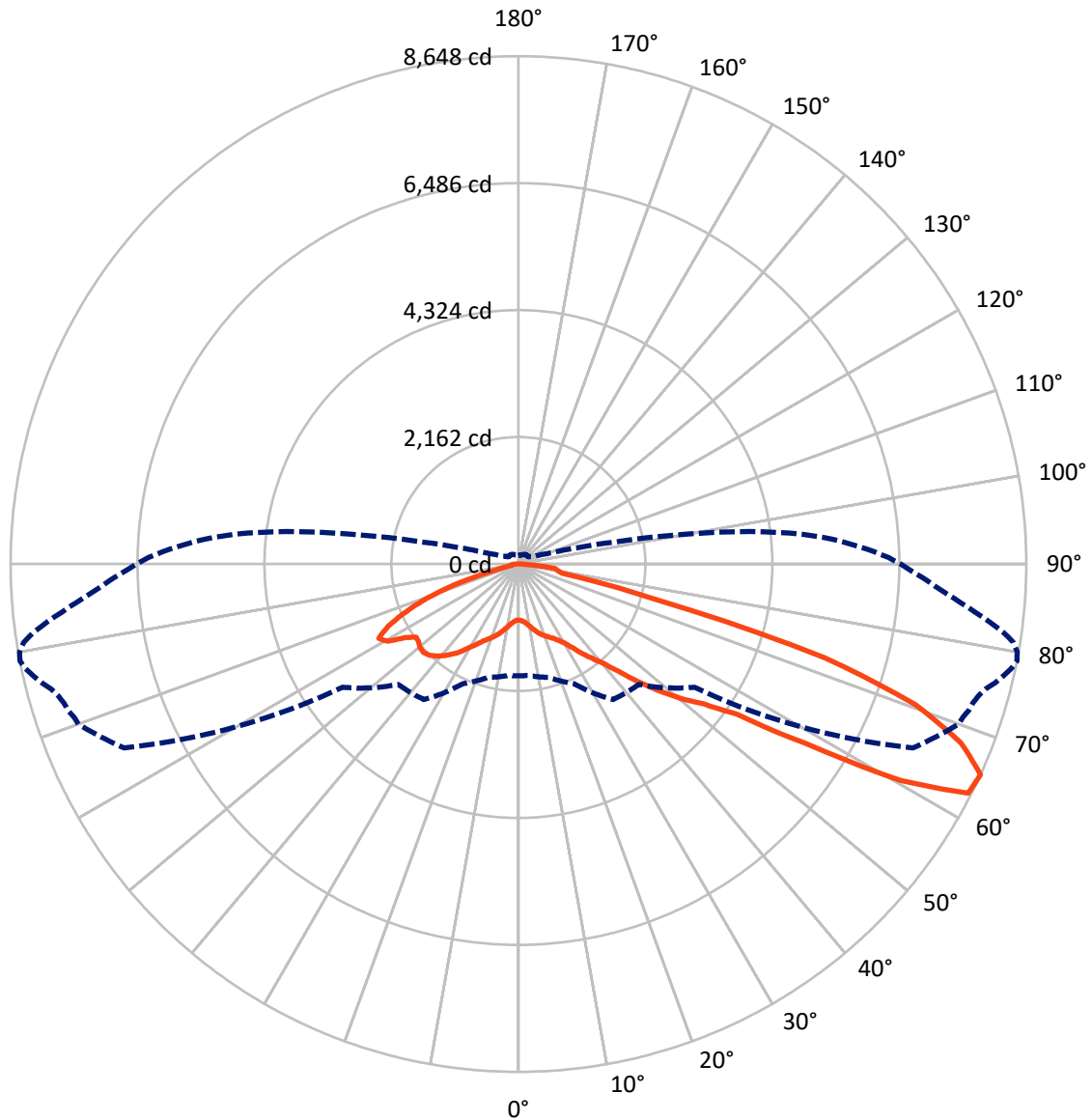


Based on 10 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1993.8	0.0	1993.8
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	6790.1	0.0	6790.1
	% Fixture	77.3	0.0	77.3
Total	Lumens	8783.9	0.0	8783.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	1.1
10°-20°	308.4	3.5
20°-30°	531.8	6.1
30°-40°	867.2	9.9
40°-50°	1447.7	16.5
50°-60°	1957.5	22.3
60°-70°	2431.8	27.7
70°-80°	973.8	11.1
80°-90°	171.1	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°	8783.9	100.0
0°-180°	8783.9	100.0



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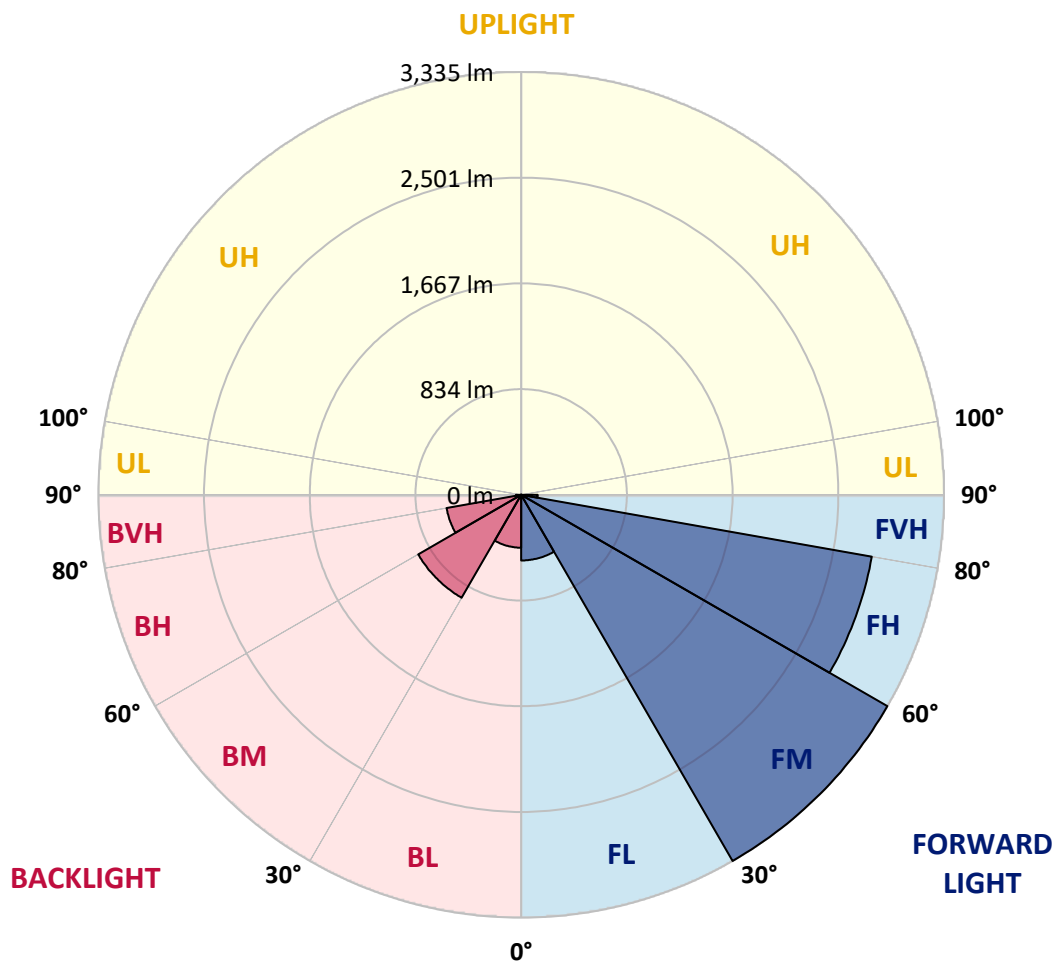
CATALOG NUMBER: VAL-E03-LED-E-U-GL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	518.0	5.9			
FM (30°-60°)	3334.5	38.0			
FH (60°-80°)	2807.8	32.0			G2/5000
FVH (80°-90°)	129.8	1.5			G2/225
BL (0°-30°)	417.0	4.7	B1/500		
BM (30°-60°)	937.8	10.7	B1/1000		
BH (60°-80°)	597.7	6.8	B2/1000		G2/1000
BVH (80°-90°)	41.3	0.5			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6
2.5°	961.8	961.2	964.2	966.6	966.6	967.8	967.2	963.6	964.2	965.4	964.2
5°	972.6	970.2	973.2	976.8	979.2	982.2	985.2	985.8	988.2	988.2	987.6
7.5°	996.0	994.2	998.4	999.6	1005.0	1009.8	1015.8	1020.0	1022.4	1023.6	1025.4
10°	1036.2	1035.0	1036.2	1038.6	1041.0	1046.4	1056.6	1065.6	1071.0	1071.0	1073.4
12.5°	1084.8	1080.0	1081.2	1076.4	1077.6	1089.0	1101.0	1116.0	1125.0	1126.2	1127.4
15°	1122.6	1120.2	1118.4	1111.8	1116.6	1131.6	1150.2	1171.8	1179.6	1186.2	1185.6
17.5°	1158.0	1155.0	1150.8	1141.8	1146.6	1170.6	1198.8	1222.8	1236.0	1237.2	1238.4
20°	1200.0	1196.4	1188.6	1170.0	1168.8	1202.4	1240.2	1266.0	1278.0	1283.4	1285.2
22.5°	1253.4	1248.6	1234.2	1198.2	1188.6	1228.2	1273.2	1305.0	1317.6	1323.0	1326.0
25°	1321.8	1312.2	1289.4	1233.0	1213.2	1254.6	1308.6	1347.0	1364.4	1369.8	1373.4
27.5°	1383.6	1376.4	1348.8	1282.2	1248.0	1290.0	1351.8	1401.0	1425.0	1431.6	1437.0
30°	1455.6	1445.4	1423.2	1352.4	1306.8	1344.0	1422.6	1485.0	1514.4	1515.0	1527.0
32.5°	1624.8	1618.2	1597.8	1519.8	1443.0	1445.4	1518.6	1604.4	1633.8	1638.6	1649.4
35°	1875.6	1873.2	1872.6	1829.4	1772.4	1713.6	1719.0	1784.4	1804.2	1812.0	1815.6
37.5°	2040.6	2061.6	2112.6	2143.8	2129.4	2142.0	2076.0	1996.2	1984.8	1976.4	1980.0
40°	2182.8	2201.4	2304.6	2448.6	2536.2	2598.0	2539.8	2295.0	2203.8	2177.4	2167.2
42.5°	2266.8	2287.8	2435.4	2665.8	2889.0	3035.4	3051.0	2710.8	2479.2	2476.2	2437.8
45°	2312.4	2333.4	2509.8	2820.0	3135.6	3399.6	3536.4	3222.6	2882.4	2857.2	2803.8
47.5°	2303.4	2323.2	2506.8	2877.0	3281.4	3641.4	3915.0	3739.8	3347.4	3286.8	3213.0
50°	2193.6	2208.0	2400.6	2784.0	3242.4	3742.2	4174.2	4214.4	3873.6	3791.4	3681.0
52.5°	2080.2	2106.0	2265.6	2619.0	3065.4	3679.8	4329.0	4646.4	4365.0	4308.6	4167.0
55°	2019.0	2039.4	2169.6	2471.4	2878.8	3466.8	4393.2	5053.8	4962.0	4939.2	4839.0
57.5°	2016.6	2036.4	2140.2	2382.0	2727.0	3244.8	4411.8	5683.2	5952.6	5958.6	5929.8
60°	2115.0	2135.4	2222.4	2425.2	2680.2	3054.6	4345.2	6576.0	7171.2	7224.0	7312.2
62.5°	2128.8	2138.4	2243.4	2517.0	2850.6	2912.4	4071.0	7319.4	8008.8	8057.4	8106.0
65°	1904.4	1903.8	1996.8	2248.8	2815.2	2898.0	3658.8	7410.6	7975.2	8004.6	8065.2
67.5°	1420.2	1408.2	1461.0	1691.4	2233.8	2901.6	3170.4	6722.4	7353.6	7409.4	7429.8
70°	732.0	750.6	786.6	927.6	1418.4	2335.8	2723.4	5671.8	6455.4	6476.4	6549.0
72.5°	300.6	292.8	317.4	390.0	709.8	1543.8	2253.0	4476.0	5331.6	5317.2	5330.4
75°	167.4	169.8	177.0	203.4	345.0	775.2	1935.6	3168.6	3625.8	3377.4	3302.4
77.5°	134.4	135.6	136.2	141.0	188.4	413.4	1485.6	2086.8	1823.4	1693.2	1643.4
80°	98.4	105.0	112.2	113.4	129.6	234.6	814.8	1756.8	1539.0	1431.0	1342.2
82.5°	79.2	82.2	97.8	100.2	103.2	139.8	369.0	1650.0	1533.0	1422.6	1300.2
85°	47.4	52.8	79.8	80.4	81.6	85.2	204.0	672.0	835.8	738.6	676.2
87.5°	16.8	21.6	39.6	33.0	42.0	34.8	89.4	225.0	277.2	263.4	233.4
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6
2.5°	963.6	963.6	964.8	964.2	964.2	964.2	964.2	963.0	963.0	961.2	962.4
5°	987.6	987.0	987.6	988.2	987.6	988.8	988.2	987.6	988.2	987.6	988.2
7.5°	1026.0	1023.0	1027.2	1024.8	1024.2	1027.8	1026.0	1027.8	1028.4	1027.8	1027.2
10°	1074.6	1076.4	1076.4	1076.4	1075.2	1078.8	1079.4	1080.6	1081.2	1083.6	1083.6
12.5°	1130.4	1131.0	1133.4	1132.8	1134.0	1138.2	1141.2	1141.8	1142.4	1144.2	1141.8
15°	1190.4	1191.6	1191.6	1197.0	1195.2	1201.2	1203.0	1203.0	1203.6	1210.8	1211.4
17.5°	1243.8	1243.8	1248.6	1248.6	1253.4	1254.6	1260.0	1260.6	1263.0	1269.6	1270.2
20°	1288.8	1291.2	1294.2	1297.8	1299.6	1303.2	1306.8	1310.4	1313.4	1318.8	1319.4
22.5°	1331.4	1333.8	1338.6	1341.0	1345.2	1347.6	1350.6	1354.8	1359.6	1366.8	1368.6
25°	1380.6	1383.0	1388.4	1392.0	1396.8	1400.4	1405.8	1411.2	1414.2	1421.4	1426.8
27.5°	1443.0	1450.2	1457.4	1459.2	1462.8	1471.2	1478.4	1485.6	1492.2	1495.8	1502.4
30°	1534.2	1534.2	1549.2	1549.2	1555.8	1563.6	1568.4	1576.2	1588.2	1591.8	1600.2
32.5°	1656.6	1659.6	1665.0	1681.2	1693.2	1696.8	1700.4	1711.8	1719.0	1728.0	1738.2
35°	1831.2	1834.2	1837.2	1852.8	1866.6	1870.2	1873.8	1881.0	1893.0	1908.6	1903.8
37.5°	1987.8	1989.6	1999.2	2016.6	2024.4	2034.0	2037.0	2050.2	2056.8	2071.2	2071.8
40°	2176.2	2172.0	2177.4	2197.2	2209.2	2208.6	2218.2	2242.2	2247.0	2253.6	2270.4
42.5°	2439.0	2423.4	2440.2	2446.8	2464.8	2476.2	2495.4	2511.6	2523.0	2548.2	2560.2
45°	2778.6	2762.4	2776.2	2779.2	2816.4	2827.8	2856.6	2878.2	2902.8	2931.6	2940.0
47.5°	3165.6	3135.6	3118.8	3137.4	3181.8	3200.4	3228.6	3249.0	3274.8	3289.8	3285.0
50°	3613.8	3541.8	3508.2	3498.6	3530.4	3556.8	3600.6	3610.2	3622.2	3621.6	3622.2
52.5°	4113.6	4038.6	3968.4	3919.8	3915.0	3950.4	3961.2	3963.6	3960.0	3933.0	3916.2
55°	4766.4	4761.0	4687.2	4586.4	4579.8	4575.6	4512.6	4504.8	4490.4	4449.0	4392.0
57.5°	5950.8	6010.8	5962.2	5959.8	5907.0	5872.2	5756.4	5698.8	5638.2	5526.0	5436.6
60°	7320.0	7407.0	7455.0	7476.0	7579.2	7579.2	7484.4	7402.8	7304.4	7133.4	6966.6
62.5°	8144.4	8220.6	8291.4	8402.4	8533.8	8592.0	8596.8	8524.2	8400.0	8205.0	7969.2
65°	8092.2	8148.6	8234.4	8365.2	8473.8	8578.2	8648.4	8626.2	8531.4	8336.4	8079.6
67.5°	7501.2	7583.4	7694.4	7815.0	7915.8	8014.2	8127.6	8136.0	8110.8	7925.4	7693.2
70°	6589.2	6694.8	6765.0	6916.8	6962.4	7062.0	7176.0	7230.6	7189.8	7047.0	6910.8
72.5°	5353.2	5436.6	5448.6	5382.6	5405.4	5430.0	5457.6	5329.8	5280.6	5089.8	5002.2
75°	3246.0	3136.2	3043.8	2952.0	2677.8	2580.6	2431.2	2136.6	2103.0	1900.8	1760.4
77.5°	1543.8	1497.6	1414.2	1274.4	1088.4	910.2	755.4	613.8	561.0	462.0	393.6
80°	1292.4	1237.2	1162.2	1058.4	928.2	798.6	676.2	571.2	465.6	379.2	303.0
82.5°	1185.6	1089.6	984.0	894.6	802.8	714.6	632.4	537.6	481.8	388.8	317.4
85°	599.4	525.0	425.4	358.2	302.4	246.0	213.0	181.8	162.0	129.0	112.2
87.5°	201.0	164.4	122.4	103.8	93.6	80.4	73.8	70.2	68.4	60.6	54.0
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°	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6
2.5°	962.4	962.4	962.4	962.4	961.8	961.8	961.8	961.8	961.8	961.8	962.4
5°	987.0	987.0	987.6	989.4	985.8	987.0	988.2	986.4	988.2	986.4	988.8
7.5°	1026.6	1028.4	1027.2	1029.6	1028.4	1032.0	1029.6	1027.8	1029.0	1029.0	1029.6
10°	1082.4	1084.8	1083.0	1084.2	1084.2	1086.6	1083.6	1084.2	1084.8	1083.6	1084.2
12.5°	1144.2	1145.4	1144.8	1148.4	1146.6	1148.4	1146.6	1149.0	1150.2	1151.4	1151.4
15°	1211.4	1212.6	1216.2	1215.6	1219.2	1218.0	1218.6	1215.6	1221.6	1218.0	1219.2
17.5°	1273.2	1272.6	1277.4	1279.2	1279.8	1280.4	1282.2	1279.8	1280.4	1282.2	1281.0
20°	1321.2	1325.4	1326.6	1331.4	1335.0	1336.2	1335.6	1337.4	1339.8	1337.4	1337.4
22.5°	1372.2	1378.2	1380.0	1383.0	1386.6	1387.2	1390.8	1392.6	1393.8	1393.2	1393.8
25°	1433.4	1437.6	1441.8	1447.8	1452.0	1452.6	1455.6	1458.0	1458.6	1458.0	1461.6
27.5°	1508.4	1513.8	1519.2	1526.4	1531.2	1532.4	1539.0	1539.0	1542.6	1544.4	1545.6
30°	1605.0	1606.8	1620.6	1627.8	1626.0	1634.4	1643.4	1642.8	1647.0	1648.2	1651.2
32.5°	1745.4	1745.4	1757.4	1766.4	1776.0	1773.0	1786.8	1784.4	1791.0	1794.6	1792.8
35°	1915.8	1921.8	1930.8	1936.2	1946.4	1951.8	1961.4	1966.8	1969.8	1969.2	1962.6
37.5°	2091.6	2101.2	2104.8	2118.0	2128.2	2137.2	2138.4	2132.4	2134.8	2122.8	2119.2
40°	2292.6	2306.4	2314.8	2334.6	2333.4	2344.8	2346.0	2328.6	2325.6	2310.0	2293.8
42.5°	2573.4	2592.6	2599.2	2614.2	2602.2	2607.6	2577.6	2570.4	2546.4	2521.2	2484.6
45°	2952.0	2942.4	2946.6	2942.4	2910.6	2887.2	2862.6	2827.2	2791.8	2743.2	2691.0
47.5°	3285.0	3289.8	3258.6	3238.8	3187.2	3154.2	3109.2	3047.4	3004.2	2938.8	2869.8
50°	3608.4	3555.0	3511.2	3465.6	3420.0	3359.4	3291.6	3237.0	3174.0	3092.4	3007.8
52.5°	3871.2	3802.2	3749.4	3684.6	3622.8	3555.6	3484.8	3405.6	3322.8	3241.2	3136.8
55°	4336.8	4236.6	4168.8	4055.4	3985.2	3891.0	3835.8	3733.2	3618.0	3510.0	3399.0
57.5°	5335.8	5185.8	5108.4	5044.2	4935.0	4780.2	4681.8	4513.2	4348.8	4233.6	4048.8
60°	6840.6	6688.2	6559.8	6408.0	6240.6	6030.6	5937.0	5738.4	5503.2	5313.0	5068.8
62.5°	7778.4	7567.8	7359.6	7146.6	6978.6	6814.2	6620.4	6420.0	6187.2	5928.6	5661.6
65°	7816.2	7563.6	7314.6	7097.4	6900.6	6687.0	6505.2	6301.8	6057.0	5790.6	5513.4
67.5°	7423.8	7141.2	6874.2	6636.0	6411.0	6213.0	6022.8	5831.4	5569.2	5346.0	5062.2
70°	6642.0	6384.0	6142.2	5871.0	5698.8	5476.2	5290.8	5089.2	4901.4	4692.6	4426.8
72.5°	4878.6	4684.2	4408.2	4293.0	4200.6	3964.8	3826.8	3810.0	3690.0	3439.8	3241.2
75°	1814.4	1544.4	1462.8	1511.4	1430.4	1457.4	1447.2	1389.6	1392.0	1349.4	1299.0
77.5°	355.2	330.0	310.2	315.6	293.4	283.8	304.2	298.2	287.4	290.4	285.6
80°	241.8	204.6	185.4	178.2	169.2	165.0	163.8	162.0	158.4	156.6	151.2
82.5°	238.2	177.0	139.8	120.0	112.8	109.2	106.2	105.6	104.4	103.8	105.6
85°	94.8	76.8	70.2	64.2	62.4	60.6	60.6	60.0	59.4	60.6	63.0
87.5°	46.2	39.0	35.4	32.4	31.2	30.6	30.6	31.2	31.8	34.2	39.0
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: P177418

CATALOG NUMBER: VAL-E03-LED-E-U-GL2

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6
2.5°	961.2	961.8	960.6	961.2	960.6	959.4	958.8	960.6	960.0	959.4	959.4
5°	985.8	988.2	987.0	985.8	985.8	985.2	985.2	985.2	984.6	985.2	983.4
7.5°	1028.4	1027.8	1027.8	1026.6	1025.4	1026.6	1026.0	1024.2	1024.8	1023.6	1021.8
10°	1083.0	1081.2	1084.2	1084.2	1081.8	1081.2	1080.0	1078.2	1078.2	1076.4	1076.4
12.5°	1147.8	1146.0	1150.2	1147.2	1143.6	1143.0	1139.4	1138.2	1140.0	1139.4	1138.2
15°	1213.8	1214.4	1216.2	1215.6	1211.4	1211.4	1206.6	1207.2	1203.6	1202.4	1199.4
17.5°	1278.0	1278.6	1276.8	1276.8	1273.8	1272.0	1266.6	1267.2	1264.8	1260.0	1256.4
20°	1335.6	1335.0	1330.8	1334.4	1328.4	1327.2	1322.4	1317.6	1318.8	1314.0	1306.8
22.5°	1392.0	1390.8	1389.6	1387.8	1384.8	1383.6	1378.2	1377.6	1371.6	1364.4	1358.4
25°	1457.4	1456.8	1455.0	1455.6	1449.6	1450.2	1440.6	1438.2	1434.6	1426.8	1422.0
27.5°	1542.0	1542.0	1537.2	1535.4	1533.6	1531.2	1522.8	1516.8	1507.8	1498.8	1489.2
30°	1645.8	1644.6	1643.4	1638.6	1632.0	1628.4	1613.4	1603.8	1591.8	1575.0	1560.6
32.5°	1794.0	1783.8	1775.4	1764.6	1753.8	1742.4	1719.0	1702.8	1683.6	1656.6	1633.8
35°	1959.0	1941.6	1932.6	1910.4	1890.0	1867.2	1839.0	1806.0	1779.6	1744.2	1707.0
37.5°	2095.2	2082.0	2058.0	2032.8	2004.0	1960.8	1929.0	1893.6	1847.4	1808.4	1763.4
40°	2263.2	2233.2	2199.0	2157.0	2117.4	2068.8	2025.0	1974.0	1917.6	1861.2	1802.4
42.5°	2439.6	2393.4	2337.0	2288.4	2228.4	2164.8	2107.8	2038.8	1966.8	1891.2	1812.6
45°	2619.6	2562.6	2487.6	2418.6	2335.2	2255.4	2173.8	2079.6	1981.2	1880.4	1781.4
47.5°	2784.6	2701.2	2616.0	2523.0	2427.0	2324.4	2208.6	2085.0	1955.4	1822.8	1699.2
50°	2914.2	2809.8	2702.4	2595.0	2477.4	2344.2	2198.4	2037.0	1877.4	1718.4	1576.2
52.5°	3028.8	2911.8	2779.8	2646.6	2501.4	2337.6	2155.2	1965.0	1770.6	1594.8	1435.2
55°	3250.8	3103.8	2929.8	2758.2	2574.6	2368.2	2140.8	1908.0	1684.2	1492.8	1323.0
57.5°	3853.8	3655.2	3385.8	3147.6	2914.8	2614.2	2293.8	2007.0	1722.0	1495.8	1306.8
60°	4803.6	4480.2	4171.8	3808.8	3432.0	3019.8	2590.2	2203.8	1856.4	1572.6	1345.2
62.5°	5354.4	5013.0	4616.4	4176.6	3688.2	3186.0	2692.8	2241.6	1860.6	1551.6	1299.6
65°	5205.6	4862.4	4426.2	3976.2	3456.6	2943.0	2453.4	2020.2	1650.6	1365.0	1123.8
67.5°	4764.0	4405.2	3995.4	3496.2	2999.4	2523.6	2077.2	1669.2	1342.2	1075.8	862.8
70°	4121.4	3802.2	3407.4	2947.2	2465.4	2037.6	1661.4	1293.6	1017.0	772.8	604.8
72.5°	3058.8	2776.2	2529.6	2145.0	1792.2	1456.8	1150.2	900.0	661.8	500.4	385.2
75°	1284.0	1188.6	1148.4	1007.4	876.0	718.2	540.6	430.8	349.2	297.0	235.8
77.5°	311.4	311.4	292.8	274.2	252.0	228.0	201.6	180.0	169.2	159.6	151.8
80°	151.2	150.0	145.2	144.6	140.4	135.0	132.0	127.8	126.0	123.6	122.4
82.5°	106.2	105.6	103.8	106.2	105.6	108.0	109.2	109.8	109.8	110.4	111.0
85°	67.2	69.6	74.4	80.4	85.8	92.4	98.4	103.2	106.8	109.8	112.2
87.5°	42.6	48.6	52.2	61.2	70.2	80.4	91.8	96.6	100.8	101.4	97.8
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: P177418

CATALOG NUMBER: VAL-E03-LED-E-U-GL2

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6	954.6
2.5°	959.4	958.8	960.0	958.8	958.8	958.2	956.4	954.6	952.8	952.2	950.4
5°	982.8	982.8	984.0	981.6	982.2	979.8	974.4	968.4	963.0	958.2	952.8
7.5°	1022.4	1020.6	1021.2	1020.6	1019.4	1014.6	1002.6	987.6	973.2	958.2	946.2
10°	1075.2	1071.6	1071.6	1070.4	1068.6	1062.0	1036.8	1006.8	976.8	949.8	930.0
12.5°	1134.0	1134.6	1129.8	1126.8	1123.8	1110.0	1072.2	1024.2	976.8	933.6	901.8
15°	1195.2	1194.6	1189.2	1187.4	1180.8	1160.4	1103.4	1033.2	965.4	901.8	854.4
17.5°	1250.4	1248.0	1242.6	1239.0	1231.8	1204.8	1124.4	1029.0	935.4	852.0	792.6
20°	1300.8	1297.8	1293.0	1286.4	1279.2	1240.2	1132.2	1007.4	888.0	792.6	732.6
22.5°	1353.0	1346.4	1341.0	1332.0	1324.2	1272.0	1126.8	969.0	834.0	726.6	662.4
25°	1411.2	1403.4	1392.0	1381.2	1369.2	1297.8	1111.8	921.0	769.2	655.2	590.4
27.5°	1474.2	1462.8	1447.8	1434.0	1414.8	1317.0	1086.0	867.6	698.4	584.4	517.2
30°	1540.8	1519.8	1501.2	1480.2	1455.6	1326.0	1048.8	801.6	620.4	512.4	445.2
32.5°	1605.6	1577.4	1549.8	1519.2	1485.6	1322.4	996.0	723.6	542.4	445.2	388.8
35°	1671.6	1630.8	1592.4	1551.0	1510.2	1304.4	923.4	637.2	468.6	389.4	348.6
37.5°	1716.6	1665.6	1614.6	1564.8	1515.6	1265.4	826.8	540.6	402.0	349.2	319.8
40°	1739.4	1677.0	1614.6	1552.8	1492.2	1200.6	714.0	452.4	354.6	319.2	298.2
42.5°	1732.8	1655.4	1578.0	1504.8	1430.4	1097.4	591.6	379.8	321.6	295.8	277.2
45°	1678.2	1585.8	1497.6	1420.2	1327.2	964.8	486.0	334.8	296.4	276.6	259.2
47.5°	1575.6	1472.4	1364.4	1276.8	1189.8	811.2	404.4	306.6	274.2	258.0	240.6
50°	1444.8	1325.4	1217.4	1122.6	1037.4	667.8	348.6	282.6	256.2	242.4	223.8
52.5°	1300.8	1172.4	1074.0	974.4	891.0	557.4	309.6	256.2	238.8	224.4	209.4
55°	1181.4	1062.6	962.4	862.2	778.2	487.8	277.2	235.8	222.6	207.6	195.6
57.5°	1149.6	1014.0	904.8	810.0	723.6	445.2	253.8	217.2	208.2	196.8	183.6
60°	1162.8	1013.4	891.0	787.2	696.6	411.0	236.4	204.6	197.4	187.2	173.4
62.5°	1115.4	957.6	834.0	723.6	637.8	367.8	223.8	198.6	193.8	180.0	164.4
65°	950.4	805.8	687.0	591.6	517.8	309.6	213.6	204.0	199.2	175.2	158.4
67.5°	723.6	603.0	507.6	436.2	382.8	256.2	211.2	222.0	212.4	177.6	156.6
70°	500.4	409.2	348.0	304.8	271.2	216.0	219.0	241.8	228.0	185.4	166.8
72.5°	317.4	265.2	235.2	219.0	202.8	182.4	217.2	239.4	220.8	186.6	166.8
75°	203.4	181.8	171.6	165.6	160.8	159.0	191.4	196.8	177.6	162.0	155.4
77.5°	144.0	140.4	138.6	138.0	138.6	142.8	158.4	148.2	129.0	129.6	133.2
80°	121.8	121.8	120.6	121.2	122.4	124.2	126.6	109.2	99.0	106.8	118.8
82.5°	111.6	113.4	114.6	115.8	117.6	115.2	107.4	82.8	79.8	103.8	116.4
85°	113.4	113.4	114.0	115.2	115.8	103.8	89.4	62.4	61.2	116.4	109.8
87.5°	97.2	96.0	91.8	88.8	84.6	71.4	59.4	34.8	36.0	72.0	76.8
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: P177418

CATALOG NUMBER: VAL-E03-LED-E-U-GL2

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	954.6	954.6
2.5°	949.8	949.8
5°	949.8	949.8
7.5°	942.0	939.6
10°	919.2	916.2
12.5°	884.4	881.4
15°	831.0	827.4
17.5°	764.4	758.4
20°	694.8	686.4
22.5°	625.2	618.6
25°	553.8	547.8
27.5°	483.6	477.6
30°	418.8	416.4
32.5°	370.8	368.4
35°	335.4	334.2
37.5°	311.4	310.2
40°	290.4	289.2
42.5°	271.2	269.4
45°	252.0	252.6
47.5°	232.8	232.2
50°	216.0	216.0
52.5°	202.2	201.6
55°	189.6	189.0
57.5°	177.0	176.4
60°	166.2	164.4
62.5°	156.0	154.8
65°	149.4	148.8
67.5°	144.6	142.8
70°	143.4	138.6
72.5°	139.8	133.8
75°	131.4	128.4
77.5°	115.8	112.2
80°	89.4	82.8
82.5°	75.0	64.8
85°	55.2	51.0
87.5°	40.2	31.8
90°	0.0	0.0

(END OF REPORT)