

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: P177348

Luminaire Tested: **VAL-E04-LED-E-U-WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P177348
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33699)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VAL-E04-LED-E-U-WQ
Description: VALET TUNNEL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - WIDE TYPE V SQUARE
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12368.4 lumens
Efficiency: N/A
Efficacy: 127.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G3

Input Watts (W): 97.2
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

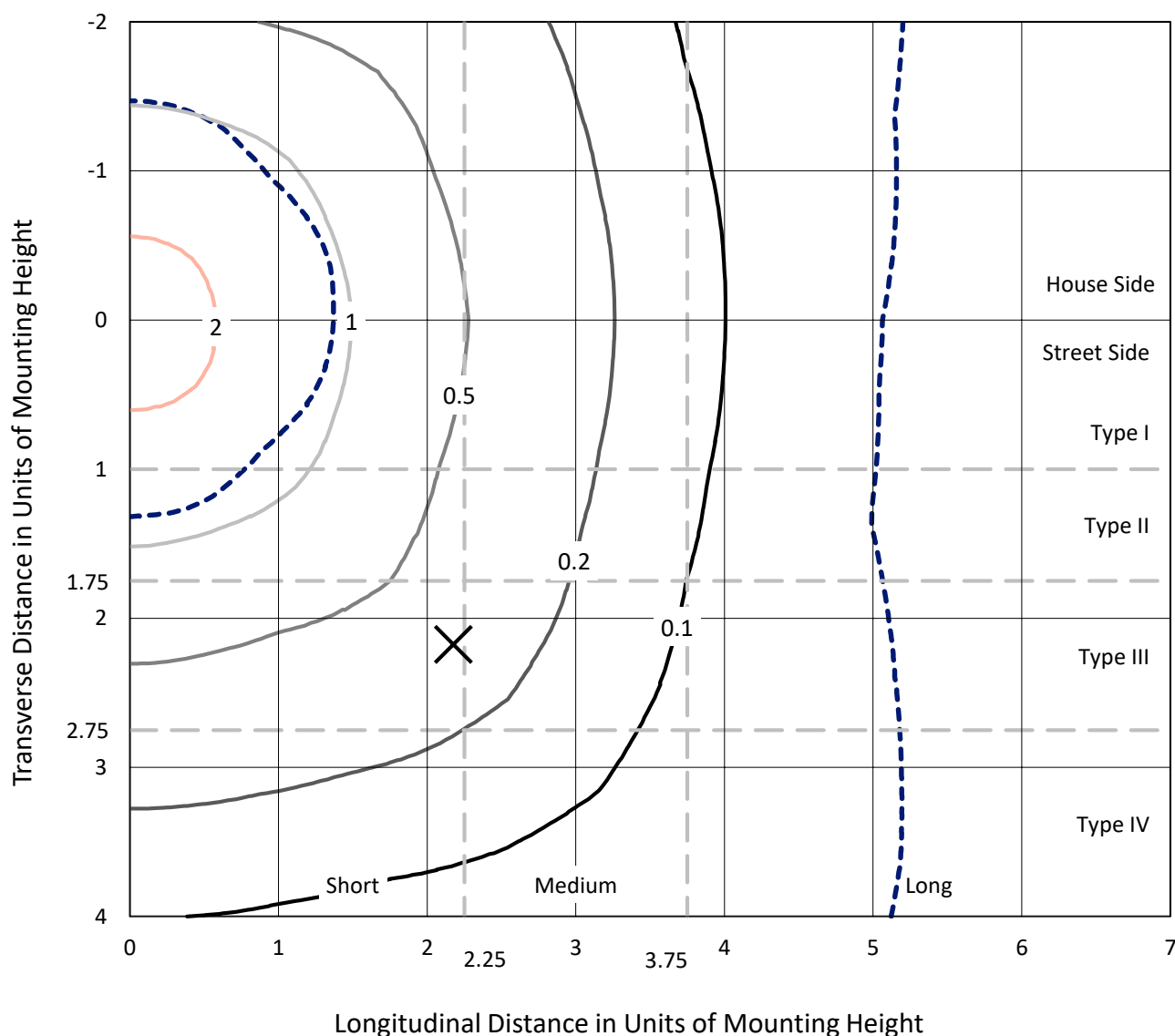


REPORT NUMBER: P177348

CATALOG NUMBER: VAL-E04-LED-E-U-WQ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

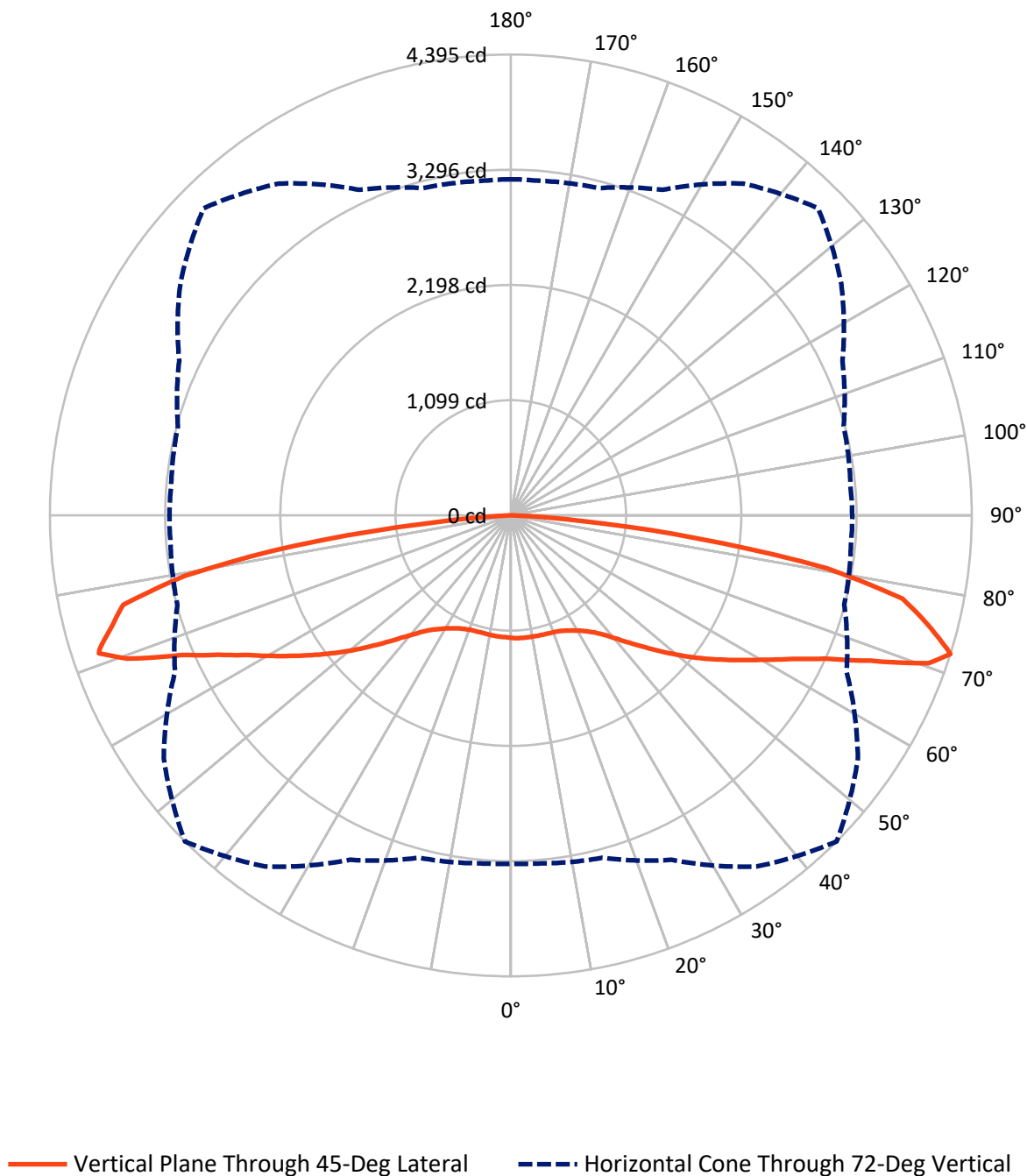


Based on 20 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P177348

CATALOG NUMBER: VAL-E04-LED-E-U-WQ

Luminous Intensity Polar Plot



REPORT NUMBER: P177348

CATALOG NUMBER: VAL-E04-LED-E-U-WQ

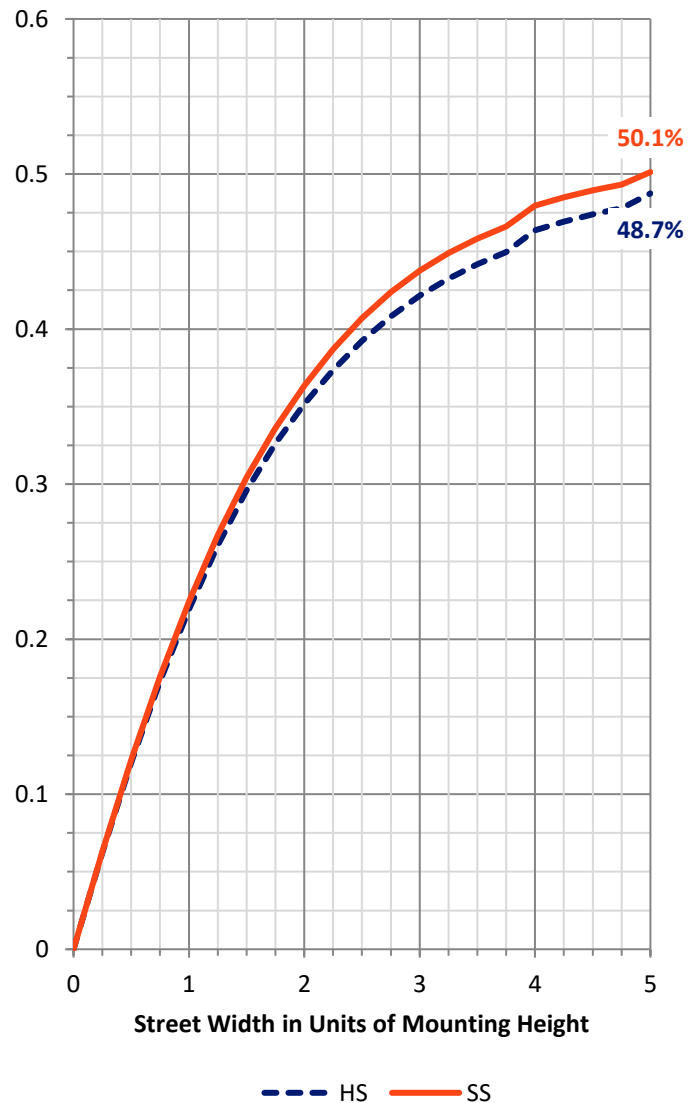
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6099.4	0.0	6099.4
	% Fixture	49.3	0.0	49.3
Street Side	Lumens	6269.0	0.0	6269.0
	% Fixture	50.7	0.0	50.7
Total	Lumens	12368.4	0.0	12368.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.5	0.9
10°-20°	331.2	2.7
20°-30°	556.3	4.5
30°-40°	846.6	6.8
40°-50°	1338.4	10.8
50°-60°	2044.2	16.5
60°-70°	2994.8	24.2
70°-80°	3402.3	27.5
80°-90°	743.2	6.0
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°	12368.4	100.0
0°-180°	12368.4	100.0

Coefficient of Utilization



REPORT NUMBER: P177348

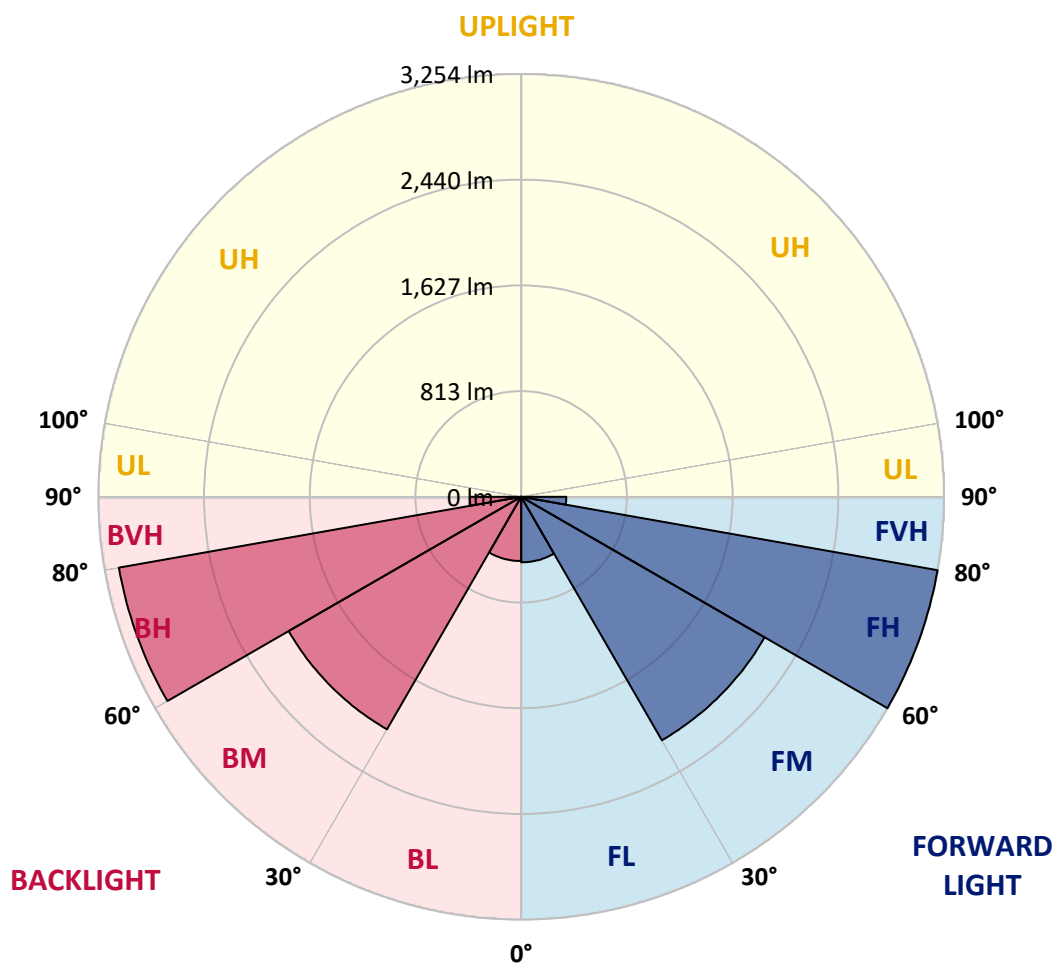
CATALOG NUMBER: VAL-E04-LED-E-U-WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	504.4	4.1			
FM	(30°-60°)	2163.2	17.5			
FH	(60°-80°)	3253.8	26.3			G2/5000
FVH	(80°-90°)	347.6	2.8			G3/500
BL	(0°-30°)	494.5	4.0	B1/500		
BM	(30°-60°)	2066.0	16.7	B2/2500		
BH	(60°-80°)	3143.4	25.4	B4/5000		G2/5000
BVH	(80°-90°)	395.6	3.2			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short





REPORT NUMBER: P177348

CATALOG NUMBER: VAL-E04-LED-E-U-WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0
2.5°	1177.6	1177.6	1174.4	1172.8	1172.8	1172.0	1171.2	1171.2	1170.4	1171.2	1168.8
5°	1179.2	1179.2	1176.0	1174.4	1173.6	1172.8	1172.8	1171.2	1170.4	1171.2	1168.8
7.5°	1179.2	1180.0	1178.4	1176.8	1174.4	1173.6	1172.8	1170.4	1170.4	1168.8	1168.0
10°	1182.4	1184.8	1181.6	1179.2	1176.0	1174.4	1172.0	1170.4	1169.6	1168.0	1168.0
12.5°	1184.8	1187.2	1184.0	1181.6	1178.4	1176.0	1172.8	1170.4	1168.8	1166.4	1167.2
15°	1188.0	1190.4	1187.2	1184.0	1180.8	1177.6	1174.4	1171.2	1168.8	1167.2	1167.2
17.5°	1189.6	1192.0	1188.8	1185.6	1183.2	1181.6	1177.6	1172.8	1169.6	1168.0	1168.0
20°	1192.0	1194.4	1192.0	1190.4	1188.0	1187.2	1183.2	1177.6	1173.6	1171.2	1170.4
22.5°	1197.6	1199.2	1198.4	1198.4	1198.4	1197.6	1194.4	1185.6	1180.8	1176.8	1176.0
25°	1211.2	1210.4	1212.0	1213.6	1214.4	1216.0	1211.2	1201.6	1195.2	1188.8	1188.0
27.5°	1233.6	1234.4	1235.2	1238.4	1241.6	1242.4	1237.6	1227.2	1217.6	1208.8	1208.0
30°	1259.2	1259.2	1262.4	1268.8	1272.0	1274.4	1269.6	1256.8	1244.8	1236.0	1234.4
32.5°	1296.0	1299.2	1300.8	1308.0	1314.4	1316.8	1309.6	1296.0	1282.4	1271.2	1268.8
35°	1348.8	1353.6	1355.2	1361.6	1368.8	1369.6	1363.2	1348.0	1333.6	1318.4	1319.2
37.5°	1423.2	1424.0	1428.0	1429.6	1443.2	1443.2	1432.8	1419.2	1404.8	1391.2	1387.2
40°	1522.4	1523.2	1524.8	1522.4	1538.4	1543.2	1529.6	1508.8	1495.2	1477.6	1475.2
42.5°	1630.4	1638.4	1637.6	1633.6	1649.6	1660.0	1643.2	1619.2	1604.8	1586.4	1583.2
45°	1764.0	1762.4	1755.2	1764.0	1782.4	1793.6	1772.8	1742.4	1727.2	1704.0	1703.2
47.5°	1893.6	1892.0	1880.8	1887.2	1921.6	1940.0	1909.6	1875.2	1855.2	1841.6	1831.2
50°	2016.8	2028.0	2013.6	2027.2	2072.0	2096.8	2068.8	2014.4	1990.4	1969.6	1964.0
52.5°	2161.6	2168.0	2155.2	2176.8	2226.4	2262.4	2224.0	2153.6	2129.6	2106.4	2099.2
55°	2309.6	2306.4	2300.0	2324.0	2384.8	2427.2	2385.6	2300.8	2265.6	2248.0	2248.0
57.5°	2455.2	2456.8	2441.6	2470.4	2547.2	2603.2	2551.2	2447.2	2404.0	2384.0	2390.4
60°	2611.2	2611.2	2588.0	2614.4	2721.6	2792.8	2714.4	2595.2	2548.0	2536.0	2536.8
62.5°	2786.4	2780.0	2754.4	2787.2	2917.6	3012.0	2913.6	2764.8	2703.2	2703.2	2708.8
65°	2988.8	2978.4	2969.6	3007.2	3176.0	3291.2	3161.6	2973.6	2919.2	2912.8	2923.2
67.5°	3280.0	3291.2	3268.8	3318.4	3548.8	3699.2	3502.4	3260.0	3202.4	3196.8	3222.4
70°	3542.4	3531.2	3560.0	3700.0	4013.6	4223.2	3949.6	3576.8	3412.0	3378.4	3388.8
72°	3321.6	3330.4	3379.2	3622.4	4087.2	4395.2	4040.0	3532.8	3291.2	3256.0	3255.2
72.5°	3270.4	3276.8	3318.4	3552.0	4034.4	4349.6	3994.4	3476.8	3248.8	3218.4	3216.8
75°	3001.6	3014.4	3080.0	3307.2	3796.8	4093.6	3760.0	3276.0	3025.6	2968.0	2980.0
77.5°	2556.8	2583.2	2649.6	2911.2	3485.6	3817.6	3460.8	2904.0	2623.2	2580.8	2567.2
80°	1876.0	1840.8	1960.8	2192.8	2601.6	3058.4	2639.2	2188.0	1896.8	1819.2	1838.4
82.5°	638.4	653.6	843.2	1125.6	1428.0	1785.6	1516.0	1096.0	807.2	709.6	666.4
85°	77.6	84.0	131.2	239.2	449.6	649.6	459.2	243.2	151.2	92.8	81.6
87.5°	37.6	40.0	56.0	60.0	74.4	63.2	75.2	48.0	45.6	28.0	23.2
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: P177348

CATALOG NUMBER: VAL-E04-LED-E-U-WQ

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0	1168.0
2.5°	1168.0	1166.4	1165.6	1164.0	1162.4	1162.4	1162.4	1162.4	1162.4	1163.2
5°	1168.0	1166.4	1165.6	1163.2	1161.6	1161.6	1160.8	1161.6	1160.8	1161.6
7.5°	1168.0	1165.6	1163.2	1160.8	1159.2	1160.0	1158.4	1157.6	1158.4	1158.4
10°	1167.2	1163.2	1160.0	1157.6	1156.8	1156.0	1156.0	1155.2	1156.8	1156.0
12.5°	1166.4	1161.6	1157.6	1154.4	1153.6	1153.6	1153.6	1153.6	1156.0	1155.2
15°	1165.6	1160.8	1156.8	1152.8	1152.0	1153.6	1153.6	1155.2	1156.8	1156.8
17.5°	1166.4	1160.8	1156.0	1152.8	1152.8	1154.4	1155.2	1157.6	1160.0	1158.4
20°	1169.6	1163.2	1159.2	1156.0	1157.6	1159.2	1159.2	1160.8	1163.2	1161.6
22.5°	1174.4	1169.6	1166.4	1165.6	1168.0	1168.8	1168.0	1167.2	1168.0	1166.4
25°	1185.6	1180.8	1178.4	1181.6	1184.0	1183.2	1180.0	1176.8	1175.2	1174.4
27.5°	1206.4	1202.4	1201.6	1205.6	1208.0	1204.0	1198.4	1193.6	1192.0	1189.6
30°	1232.0	1229.6	1232.0	1236.0	1236.8	1230.4	1222.4	1215.2	1212.8	1212.8
32.5°	1265.6	1263.2	1268.8	1275.2	1276.8	1268.0	1255.2	1245.6	1239.2	1238.4
35°	1314.4	1312.8	1314.4	1322.4	1321.6	1312.8	1298.4	1287.2	1280.8	1280.8
37.5°	1382.4	1380.8	1376.8	1384.8	1384.0	1372.0	1356.8	1347.2	1340.0	1340.8
40°	1471.2	1468.8	1464.0	1465.6	1472.0	1456.0	1436.8	1424.0	1423.2	1423.2
42.5°	1577.6	1566.4	1568.0	1577.6	1572.8	1553.6	1536.0	1524.8	1524.8	1524.0
45°	1693.6	1689.6	1688.0	1691.2	1695.2	1680.0	1650.4	1637.6	1636.8	1636.8
47.5°	1828.0	1808.0	1812.0	1820.0	1829.6	1810.4	1772.8	1757.6	1755.2	1756.0
50°	1959.2	1938.4	1942.4	1959.2	1977.6	1947.2	1900.8	1882.4	1879.2	1880.8
52.5°	2095.2	2077.6	2077.6	2105.6	2129.6	2092.0	2033.6	2011.2	2011.2	2010.4
55°	2239.2	2215.2	2224.8	2260.8	2289.6	2244.0	2172.0	2154.4	2140.8	2146.4
57.5°	2382.4	2358.4	2366.4	2421.6	2457.6	2403.2	2312.8	2276.0	2268.0	2266.4
60°	2528.8	2501.6	2511.2	2597.6	2640.0	2568.0	2435.2	2390.4	2383.2	2382.4
62.5°	2691.2	2672.0	2686.4	2786.4	2835.2	2732.8	2565.6	2514.4	2516.8	2511.2
65°	2893.6	2878.4	2903.2	3025.6	3085.6	2935.2	2734.4	2675.2	2682.4	2681.6
67.5°	3183.2	3164.8	3180.0	3351.2	3404.8	3212.0	2968.8	2910.4	2921.6	2940.0
70°	3364.8	3378.4	3515.2	3755.2	3902.4	3705.6	3384.0	3274.4	3280.0	3282.4
72°	3251.2	3285.6	3488.8	3847.2	4142.4	3862.4	3424.8	3230.4	3201.6	3204.8
72.5°	3220.8	3247.2	3451.2	3808.8	4122.4	3828.8	3380.8	3196.8	3150.4	3152.0
75°	2992.0	3042.4	3238.4	3610.4	3946.4	3660.0	3211.2	3015.2	2979.2	2979.2
77.5°	2597.6	2668.0	2868.8	3391.2	3794.4	3482.4	2996.0	2753.6	2716.8	2703.2
80°	1911.2	2014.4	2212.0	2728.0	3163.2	2878.4	2466.4	2216.8	2159.2	2138.4
82.5°	752.8	841.6	1173.6	1643.2	2084.8	1774.4	1341.6	1119.2	940.8	921.6
85°	93.6	151.2	296.0	541.6	828.0	588.8	351.2	184.0	99.2	83.2
87.5°	27.2	51.2	56.0	91.2	108.0	99.2	62.4	56.0	31.2	27.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)