

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: P177511

Luminaire Tested: **VAL-F04-LED-E-U-GL3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P177511
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-GL3-8030
Description: VALET TUNNEL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE III W/ GLARE CONTROL
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8273.6 lumens
Efficiency: N/A
Efficacy: 81.0 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



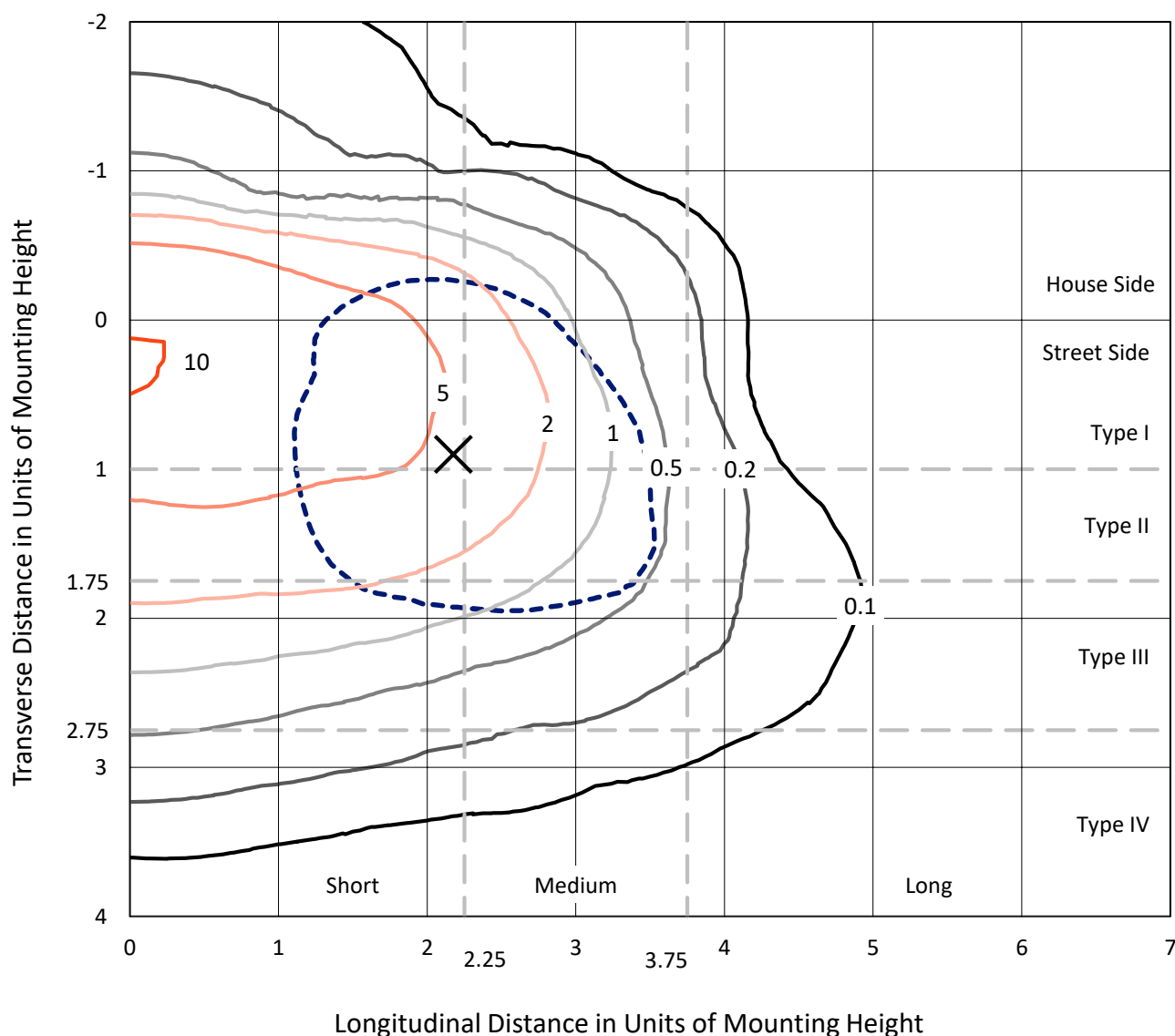
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

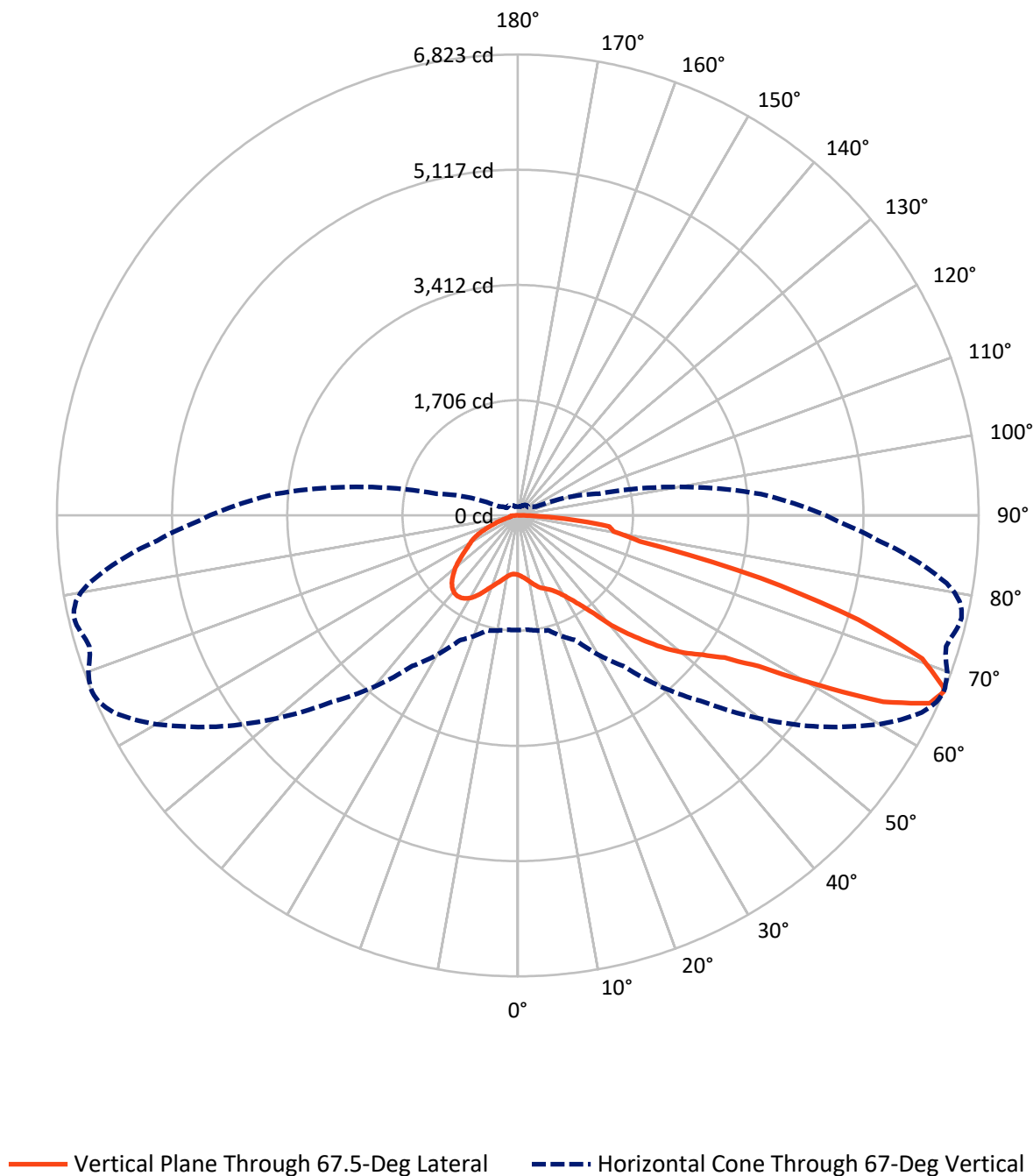


Based on 10 foot mounting height. Maximum calculated value = 11.2 fc
Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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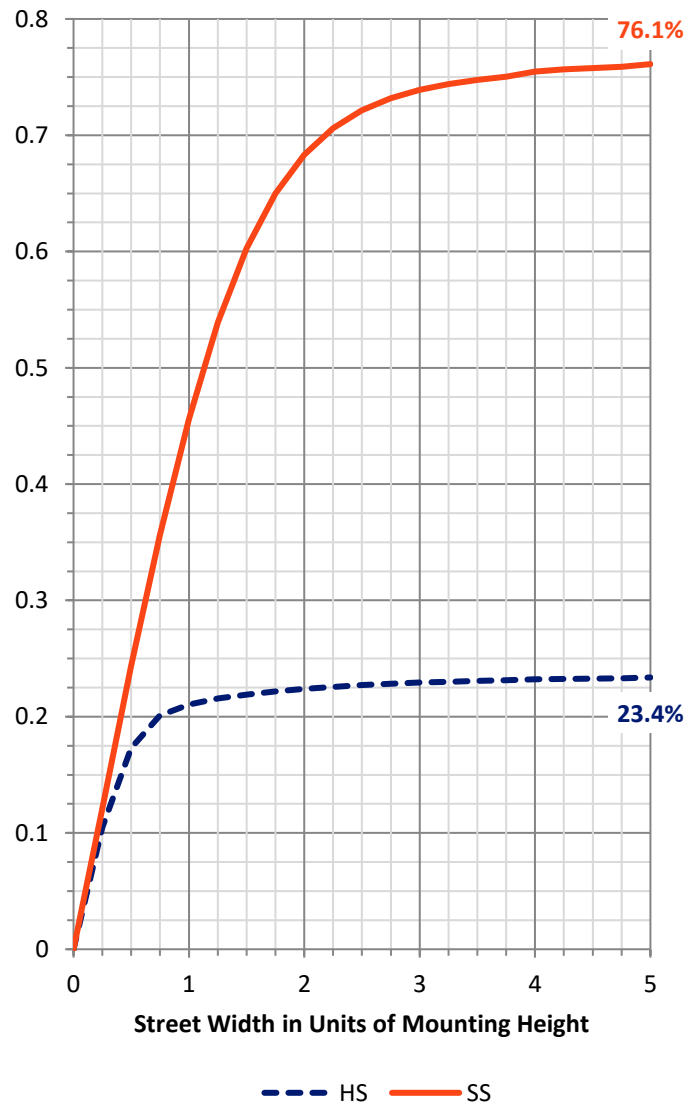
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1959.2	0.0	1959.2
	% Fixture	23.7	0.0	23.7
Street Side	Lumens	6314.4	0.0	6314.4
	% Fixture	76.3	0.0	76.3
Total	Lumens	8273.6	0.0	8273.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.8	1.1
10°-20°	300.8	3.6
20°-30°	535.5	6.5
30°-40°	780.0	9.4
40°-50°	1201.8	14.5
50°-60°	1760.1	21.3
60°-70°	2337.3	28.2
70°-80°	1101.7	13.3
80°-90°	168.4	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°	8273.6	100.0
0°-180°	8273.6	100.0

Coefficient of Utilization



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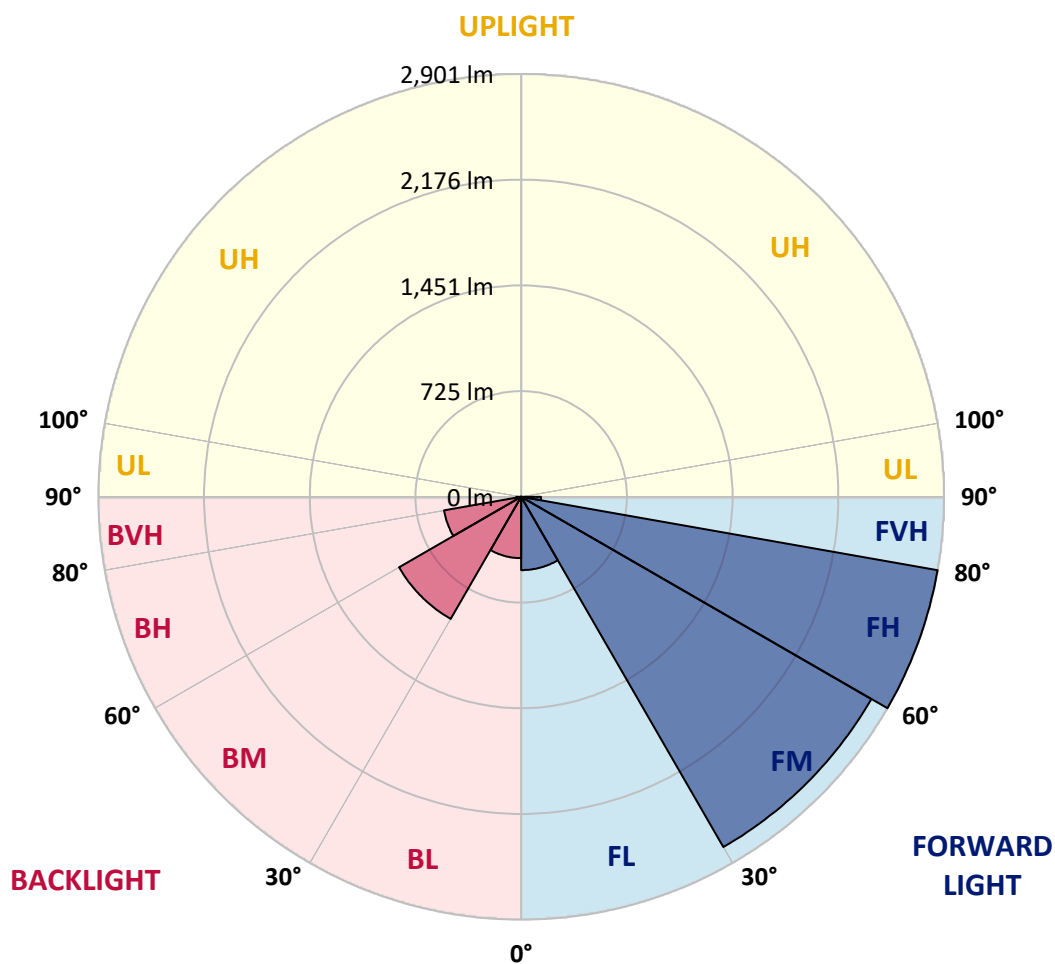
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	503.0	6.1			
FM	(30°-60°)	2774.6	33.5			
FH	(60°-80°)	2901.2	35.1			G2/5000
FVH	(80°-90°)	135.7	1.6			G2/225
BL	(0°-30°)	421.2	5.1	B1/500		
BM	(30°-60°)	967.4	11.7	B1/1000		
BH	(60°-80°)	537.8	6.5	B2/1000		G2/1000
BVH	(80°-90°)	32.7	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°	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1
2.5°	924.2	920.2	920.8	922.5	916.9	914.1	908.0	904.1	903.5	903.0	900.7
5°	978.2	974.3	976.0	971.5	960.9	953.7	940.9	934.2	933.1	932.0	929.2
7.5°	1034.5	1029.5	1023.9	1018.9	1007.2	995.5	978.8	968.7	967.6	966.0	964.3
10°	1101.4	1094.2	1089.7	1074.1	1054.0	1037.9	1021.1	1010.5	1010.0	1008.3	1005.0
12.5°	1176.6	1168.8	1160.5	1139.9	1108.6	1084.7	1065.2	1059.0	1054.0	1054.6	1051.2
15°	1251.3	1243.0	1231.8	1205.6	1164.4	1128.7	1103.6	1094.7	1095.3	1092.5	1094.2
17.5°	1314.3	1307.1	1290.9	1257.5	1209.5	1160.5	1128.7	1124.8	1125.9	1125.4	1127.0
20°	1355.6	1351.1	1326.6	1286.5	1232.4	1178.3	1146.0	1146.0	1146.5	1148.8	1152.7
22.5°	1380.7	1374.0	1341.6	1285.3	1231.8	1186.7	1161.6	1167.2	1170.5	1172.2	1178.3
25°	1394.6	1386.2	1342.2	1267.5	1212.9	1192.8	1185.0	1198.9	1204.5	1207.3	1217.3
27.5°	1394.6	1384.6	1334.9	1245.2	1191.1	1211.2	1229.6	1253.6	1257.5	1265.8	1277.5
30°	1379.0	1371.2	1323.8	1228.5	1185.6	1245.8	1301.5	1328.8	1338.3	1347.8	1362.8
32.5°	1362.3	1355.6	1318.2	1237.4	1216.8	1318.2	1411.3	1448.7	1454.2	1462.0	1477.6
35°	1361.1	1358.9	1342.7	1294.3	1311.0	1450.9	1576.9	1602.5	1618.1	1622.0	1628.7
37.5°	1372.8	1377.3	1391.2	1386.2	1446.4	1648.2	1793.7	1845.0	1857.2	1850.5	1856.7
40°	1400.2	1411.3	1463.1	1527.2	1653.2	1886.8	2089.1	2148.2	2161.6	2157.7	2156.0
42.5°	1486.6	1501.6	1578.0	1715.1	1868.4	2133.7	2363.3	2426.9	2431.3	2433.6	2419.1
45°	1622.0	1630.4	1731.8	1906.8	2101.4	2399.6	2637.0	2707.8	2705.0	2693.9	2683.3
47.5°	1775.8	1793.1	1914.6	2126.4	2342.1	2645.4	2914.0	2983.1	2989.3	2979.2	2959.7
50°	1915.7	1929.1	2066.2	2317.6	2554.5	2849.9	3147.6	3217.2	3216.1	3221.7	3227.3
52.5°	2026.1	2038.4	2168.8	2445.3	2710.6	3021.6	3323.7	3409.5	3422.9	3431.8	3443.0
55°	2083.0	2095.8	2216.2	2498.2	2805.3	3189.4	3527.2	3650.3	3673.2	3693.3	3711.6
57.5°	2084.1	2100.8	2211.2	2494.3	2854.4	3339.3	3796.4	4017.7	4050.0	4101.3	4164.2
60°	2050.1	2073.5	2172.7	2458.1	2910.7	3529.4	4240.1	4663.7	4727.2	4817.0	4897.8
62.5°	1961.4	1984.9	2073.5	2366.1	2976.5	3773.0	4881.1	5502.0	5637.4	5736.6	5896.6
65°	1821.5	1843.8	1918.5	2213.9	2924.1	3965.3	5358.7	6103.4	6241.6	6365.9	6553.8
67°	1696.7	1698.9	1761.9	2039.5	2720.1	3905.6	5454.6	6183.7	6311.3	6437.3	6655.2
67.5°	1652.7	1664.9	1714.0	1981.5	2642.6	3861.6	5416.7	6140.2	6263.9	6398.3	6620.7
70°	1336.1	1339.4	1386.8	1580.8	2096.9	3201.6	4865.4	5585.6	5670.3	5867.1	6085.6
72.5°	814.9	809.3	824.4	968.2	1380.1	2217.3	3895.6	4598.5	4714.4	4882.2	5029.9
75°	448.7	475.5	493.8	593.6	775.3	1303.7	2652.6	3327.1	3497.1	3596.8	3626.4
77.5°	274.2	272.0	280.4	382.9	636.0	891.8	1465.4	1952.0	2046.7	2075.2	1965.4
80°	130.4	135.4	133.8	157.7	308.2	752.5	1024.5	1253.6	1301.5	1328.8	1364.5
82.5°	71.3	74.1	84.2	94.2	121.5	323.8	884.0	1156.0	1188.4	1235.2	1287.6
85°	44.6	46.8	64.7	68.0	74.7	99.8	368.4	675.6	702.9	796.0	825.5
87.5°	18.4	20.1	35.1	31.8	37.9	35.1	111.5	171.7	182.3	194.0	215.2
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-F04-LED-E-U-GL3-8030

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	67.5°	68°	69°	70°	71°	72°	73°	74°
0°	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1
2.5°	901.3	900.7	898.5	898.0	899.1	899.1	898.0	896.3	895.7	895.2	894.1
5°	928.1	926.9	925.3	924.2	923.6	923.6	921.9	920.2	918.6	916.3	915.8
7.5°	959.8	959.8	959.3	957.6	955.9	953.7	952.0	950.3	948.7	947.6	945.9
10°	1001.6	1003.9	1000.0	998.8	998.3	994.9	994.4	992.7	991.6	988.8	988.8
12.5°	1051.2	1049.0	1048.4	1046.2	1046.2	1044.5	1044.0	1043.4	1042.3	1040.1	1039.5
15°	1092.5	1092.5	1091.9	1090.8	1091.9	1090.8	1089.1	1090.3	1088.6	1089.1	1087.5
17.5°	1125.9	1128.2	1127.6	1128.2	1127.6	1127.6	1128.7	1128.7	1129.8	1127.6	1128.2
20°	1153.8	1157.1	1158.8	1157.7	1158.8	1159.4	1162.2	1163.3	1164.9	1166.1	1166.1
22.5°	1182.8	1187.2	1190.6	1190.6	1192.8	1195.0	1200.1	1201.2	1205.1	1204.5	1207.3
25°	1223.5	1230.7	1232.9	1236.3	1239.1	1243.0	1249.1	1251.9	1253.6	1257.5	1261.9
27.5°	1285.9	1294.8	1296.5	1300.4	1307.6	1309.9	1316.6	1319.3	1325.5	1333.8	1335.5
30°	1371.2	1382.3	1382.9	1387.3	1395.7	1398.5	1404.1	1411.3	1416.3	1424.7	1425.2
32.5°	1487.1	1498.3	1496.6	1504.9	1504.4	1512.8	1511.1	1522.2	1526.7	1531.1	1543.4
35°	1641.5	1640.4	1648.8	1651.5	1649.9	1656.6	1655.4	1660.5	1664.9	1664.9	1678.3
37.5°	1863.9	1862.2	1861.1	1849.4	1846.6	1847.2	1845.0	1849.4	1842.2	1842.2	1856.7
40°	2162.1	2152.1	2144.3	2136.5	2128.7	2118.1	2109.2	2106.9	2094.7	2094.1	2088.5
42.5°	2421.3	2411.8	2406.2	2391.2	2383.4	2381.7	2360.0	2353.9	2350.5	2352.7	2347.2
45°	2693.3	2683.3	2662.1	2655.4	2653.2	2641.5	2638.1	2623.1	2618.6	2626.4	2623.6
47.5°	2973.7	2959.2	2947.5	2939.7	2936.9	2926.8	2912.4	2924.6	2918.5	2914.0	2905.7
50°	3225.6	3209.4	3209.4	3195.5	3197.7	3191.0	3176.0	3179.3	3162.1	3168.8	3164.3
52.5°	3436.9	3438.0	3443.5	3427.9	3430.7	3430.7	3425.7	3409.5	3414.0	3411.8	3422.4
55°	3705.5	3723.9	3713.9	3716.7	3720.0	3735.6	3746.8	3737.3	3721.7	3733.9	3767.9
57.5°	4175.4	4192.1	4202.2	4210.0	4222.8	4230.0	4290.2	4298.6	4280.7	4317.5	4393.3
60°	4992.5	5012.6	5042.7	5082.3	5090.6	5141.4	5172.6	5209.4	5222.7	5254.5	5335.9
62.5°	5975.2	6020.4	6025.9	6076.1	6115.1	6067.7	6080.0	6125.1	6073.9	6144.1	6147.4
65°	6618.4	6684.2	6686.4	6704.8	6719.3	6674.7	6654.7	6634.6	6586.1	6583.3	6631.8
67°	6728.8	6789.0	6814.1	6823.0	6820.8	6797.9	6765.0	6707.1	6660.2	6633.5	6653.5
67.5°	6697.6	6756.7	6791.8	6800.1	6800.7	6778.4	6748.3	6685.3	6641.3	6611.2	6632.4
70°	6184.8	6323.0	6383.2	6352.0	6369.8	6369.8	6368.7	6310.8	6289.0	6260.0	6248.9
72.5°	5142.5	5238.3	5314.7	5274.0	5279.0	5316.9	5308.0	5314.1	5251.7	5245.0	5141.9
75°	3683.8	3714.4	3688.8	3717.8	3561.7	3506.0	3411.2	3273.0	3236.8	3179.3	3007.7
77.5°	1957.0	1922.4	1853.9	1848.3	1784.2	1734.6	1673.3	1633.1	1531.7	1475.4	1346.7
80°	1382.3	1399.0	1425.2	1440.8	1455.3	1466.5	1443.6	1379.5	1294.8	1200.1	1110.3
82.5°	1320.5	1343.3	1358.9	1366.7	1361.1	1343.3	1290.9	1229.6	1116.4	1034.5	937.5
85°	832.7	851.1	819.4	812.7	826.6	714.0	652.1	602.0	487.7	453.7	400.8
87.5°	223.5	235.8	236.3	229.1	224.6	197.9	175.0	155.0	128.2	120.4	97.5
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°	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1
2.5°	894.1	893.5	893.5	891.8	890.7	890.1	889.6	887.9	886.8	886.8	886.2
5°	915.2	914.1	912.4	911.9	909.7	908.5	906.3	905.2	903.5	902.4	901.9
7.5°	945.3	942.5	939.2	939.8	936.4	934.7	933.6	931.4	929.7	928.1	927.5
10°	985.5	984.9	981.6	982.7	976.5	979.3	973.8	974.3	971.0	967.6	967.1
12.5°	1036.7	1036.2	1032.8	1028.9	1027.8	1028.4	1025.0	1025.6	1021.7	1020.6	1019.5
15°	1085.8	1084.7	1083.0	1080.2	1078.5	1078.0	1076.9	1075.8	1072.4	1072.4	1068.5
17.5°	1128.2	1128.7	1126.5	1124.3	1123.1	1121.5	1120.9	1120.9	1118.1	1115.3	1115.9
20°	1165.5	1166.6	1166.6	1164.9	1165.5	1164.4	1163.8	1164.9	1162.2	1161.0	1159.4
22.5°	1207.3	1207.3	1207.9	1209.0	1210.6	1211.2	1211.2	1210.1	1208.4	1207.9	1204.5
25°	1265.3	1263.0	1265.8	1266.9	1266.9	1269.7	1268.6	1269.2	1269.7	1268.1	1266.4
27.5°	1338.3	1336.1	1341.6	1345.5	1345.0	1346.7	1350.0	1346.1	1348.3	1350.0	1346.1
30°	1428.0	1433.6	1437.5	1440.3	1439.2	1444.2	1445.9	1445.3	1443.6	1446.4	1446.4
32.5°	1542.3	1539.5	1549.5	1555.7	1556.2	1555.1	1557.9	1561.2	1558.5	1562.9	1560.7
35°	1678.3	1680.0	1682.2	1688.9	1691.7	1687.2	1691.7	1695.6	1694.5	1695.0	1697.2
37.5°	1853.9	1856.7	1854.4	1855.0	1853.9	1875.1	1878.4	1881.7	1877.8	1874.5	1884.5
40°	2097.5	2097.5	2096.9	2104.1	2091.9	2105.3	2101.4	2110.8	2120.9	2115.3	2130.3
42.5°	2337.1	2350.5	2351.6	2341.0	2349.9	2364.4	2364.4	2370.6	2379.5	2370.6	2385.1
45°	2611.9	2628.6	2625.9	2643.7	2630.3	2647.0	2649.8	2642.0	2661.5	2663.8	2658.2
47.5°	2911.8	2915.1	2915.7	2921.8	2924.6	2938.0	2937.4	2951.9	2947.5	2925.2	2933.0
50°	3168.8	3177.1	3181.6	3185.5	3199.4	3208.9	3221.7	3223.9	3220.6	3213.9	3207.8
52.5°	3425.7	3445.8	3458.6	3493.2	3514.9	3532.2	3553.4	3561.2	3557.3	3555.6	3531.1
55°	3769.6	3817.6	3891.7	3939.6	3992.0	4022.7	4047.2	4059.5	4050.5	4055.0	4004.3
57.5°	4417.3	4529.9	4594.6	4676.5	4769.0	4807.5	4818.1	4861.5	4813.6	4765.7	4727.2
60°	5379.9	5483.6	5601.2	5685.4	5716.6	5823.0	5772.9	5716.6	5665.3	5566.1	5454.0
62.5°	6248.9	6382.7	6442.9	6521.4	6500.3	6491.3	6457.9	6368.2	6258.4	6110.6	5961.3
65°	6677.5	6752.8	6790.1	6815.7	6791.8	6729.9	6619.5	6486.9	6329.7	6138.5	5942.3
67°	6694.8	6729.4	6741.6	6717.1	6663.6	6567.2	6427.8	6240.0	6046.5	5827.5	5606.8
67.5°	6666.4	6689.2	6695.3	6656.9	6593.3	6489.1	6340.3	6139.6	5934.0	5706.5	5484.7
70°	6278.4	6261.7	6207.6	6154.7	5956.3	5816.3	5557.2	5343.1	5057.7	4848.7	4611.8
72.5°	5100.7	5024.3	4971.9	4737.8	4498.1	4359.3	4080.6	3824.8	3564.5	3365.5	3220.0
75°	2863.3	2807.6	2662.1	2538.3	2340.5	2159.3	2029.5	1866.7	1710.6	1618.1	1550.1
77.5°	1293.7	1134.3	1024.5	885.7	715.7	575.2	427.0	394.6	336.7	322.2	290.4
80°	1009.4	895.2	751.4	592.5	418.0	280.9	206.2	175.0	164.4	157.7	154.4
82.5°	842.2	693.9	584.1	414.7	265.3	178.4	134.3	121.5	113.7	108.1	103.1
85°	360.1	284.8	234.7	167.8	119.3	94.2	82.5	75.2	68.0	61.9	58.0
87.5°	84.2	64.7	59.1	50.2	47.4	46.8	46.3	44.0	41.2	37.9	34.0
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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CATALOG NUMBER: VAL-F04-LED-E-U-GL3-8030

CANDELA DISTRIBUTION (continued):

	86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°
0°	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1	880.1
2.5°	885.7	885.1	884.0	882.3	882.3	880.1	872.9	867.9	862.3	858.9	855.6
5°	900.7	900.2	897.4	895.7	894.6	890.1	877.9	868.4	858.4	851.1	845.6
7.5°	925.8	924.2	921.9	920.8	917.5	911.9	894.1	880.7	866.2	854.5	845.0
10°	966.5	963.7	960.4	957.0	958.2	949.2	928.6	909.1	887.9	869.5	856.7
12.5°	1016.1	1016.1	1014.4	1012.2	1008.3	998.3	970.4	947.6	921.9	899.1	889.6
15°	1068.5	1065.7	1062.9	1059.6	1059.0	1045.7	1020.6	994.4	967.6	948.1	937.0
17.5°	1111.4	1112.5	1108.6	1107.5	1106.4	1093.0	1066.3	1042.9	1023.4	1002.7	984.9
20°	1157.1	1154.9	1153.8	1152.1	1151.6	1140.4	1119.2	1104.7	1087.5	1056.3	1009.4
22.5°	1206.2	1203.4	1204.5	1201.2	1200.6	1192.8	1177.2	1172.7	1147.1	1081.3	1000.0
25°	1269.7	1264.7	1266.4	1266.4	1266.9	1259.7	1258.0	1250.2	1185.6	1075.2	962.1
27.5°	1345.5	1347.8	1347.8	1347.2	1343.3	1345.5	1353.3	1326.6	1198.9	1042.9	905.2
30°	1444.2	1445.3	1446.4	1450.3	1442.0	1456.5	1465.9	1380.7	1188.9	998.3	833.9
32.5°	1564.0	1559.6	1561.8	1564.0	1566.8	1581.9	1576.3	1408.0	1159.4	937.5	745.2
35°	1696.1	1704.5	1706.7	1711.7	1717.3	1740.2	1676.1	1413.5	1114.2	856.1	632.1
37.5°	1892.9	1906.3	1906.3	1924.1	1913.5	1941.4	1765.2	1400.2	1045.7	743.0	504.4
40°	2140.9	2147.1	2153.2	2155.4	2149.8	2146.5	1823.8	1367.3	949.2	600.9	369.0
42.5°	2394.0	2391.8	2392.3	2396.2	2381.2	2318.2	1860.0	1309.9	829.4	448.7	264.8
45°	2666.5	2657.1	2654.3	2646.5	2633.1	2500.4	1880.6	1229.0	671.7	315.5	207.9
47.5°	2931.9	2920.2	2902.3	2880.6	2854.9	2647.0	1878.4	1124.3	515.0	225.7	183.4
50°	3203.9	3183.2	3144.8	3123.6	3080.1	2792.5	1865.6	1007.8	370.7	186.7	171.7
52.5°	3514.9	3478.1	3442.4	3400.1	3328.2	2971.4	1846.1	876.8	270.3	171.1	163.9
55°	3978.6	3918.4	3859.9	3771.8	3702.2	3211.1	1813.2	735.8	213.5	165.0	159.4
57.5°	4618.0	4515.4	4441.3	4322.5	4211.1	3542.8	1778.1	607.6	190.6	163.3	157.2
60°	5337.6	5183.2	5044.9	4898.9	4771.8	3956.9	1759.7	507.2	185.6	165.0	157.7
62.5°	5789.0	5606.8	5434.0	5255.6	5072.8	4154.8	1680.0	438.1	187.8	172.2	162.2
65°	5732.2	5531.0	5343.1	5125.7	4953.5	3968.0	1477.1	370.7	191.7	185.1	174.5
67°	5348.7	5153.6	4939.6	4726.7	4559.4	3613.0	1246.9	312.1	196.2	199.5	187.8
67.5°	5246.1	5026.5	4810.8	4615.2	4434.0	3503.2	1186.7	297.6	197.3	203.4	192.3
70°	4374.9	4201.0	3948.5	3803.6	3672.6	2839.9	885.1	231.3	200.7	220.7	213.5
72.5°	3061.2	2892.8	2760.7	2681.6	2605.2	2063.5	622.6	184.5	195.6	230.2	223.0
75°	1546.2	1507.7	1461.5	1435.8	1436.9	1199.5	375.1	157.2	183.9	220.7	202.3
77.5°	305.4	297.6	301.0	329.4	324.4	369.5	186.2	133.2	156.6	170.0	145.5
80°	147.7	142.7	138.2	137.1	134.3	128.8	117.1	110.9	127.1	112.0	96.4
82.5°	95.9	90.3	88.1	83.6	84.2	91.4	102.0	106.5	103.1	77.5	65.2
85°	54.1	53.5	52.4	53.5	55.7	73.0	109.2	99.8	83.1	54.6	49.1
87.5°	32.3	30.7	31.2	31.8	32.9	54.1	86.4	71.9	53.0	28.4	29.0
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):

	155°	165°	175°	180°
0°	880.1	880.1	880.1	880.1
2.5°	855.0	852.8	852.8	852.2
5°	841.1	837.8	837.2	837.2
7.5°	838.9	834.4	833.9	832.2
10°	848.9	847.2	847.8	846.1
12.5°	880.7	882.9	885.1	885.1
15°	929.2	927.5	930.3	927.5
17.5°	964.8	950.3	947.0	945.3
20°	966.0	935.9	925.8	924.2
22.5°	931.4	886.8	870.1	867.3
25°	872.9	816.6	795.4	793.2
27.5°	799.3	736.3	705.1	704.0
30°	710.7	636.0	596.4	590.3
32.5°	602.5	513.9	472.1	458.7
35°	477.7	386.8	347.8	346.7
37.5°	356.7	285.9	260.9	259.7
40°	261.4	224.6	215.2	213.5
42.5°	213.5	198.4	194.5	192.9
45°	191.2	185.1	182.8	181.2
47.5°	177.8	173.9	172.2	172.2
50°	167.2	166.1	165.0	165.0
52.5°	160.0	159.4	158.3	157.7
55°	153.8	151.6	152.2	151.6
57.5°	149.9	146.6	146.6	146.6
60°	147.7	141.6	141.6	142.1
62.5°	148.3	138.8	138.2	138.2
65°	152.7	137.1	133.8	134.3
67°	158.3	135.4	128.8	128.2
67.5°	160.0	134.3	127.1	126.5
70°	166.7	131.0	118.7	117.6
72.5°	167.8	126.0	110.4	109.2
75°	156.1	119.3	103.7	100.9
77.5°	121.5	102.6	93.6	93.6
80°	85.3	78.6	66.9	66.3
82.5°	62.4	59.1	49.1	47.9
85°	45.7	42.9	36.2	36.2
87.5°	28.4	27.3	23.4	22.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)