

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: P177414

Luminaire Tested: **VAL-F02-LED-E-U-GL2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P177414
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-F02-LED-E-U-GL2-7050
Description: VALET TUNNEL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE II W/ GLARE CONTROL
Light Source: (14) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4960.5 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 55
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



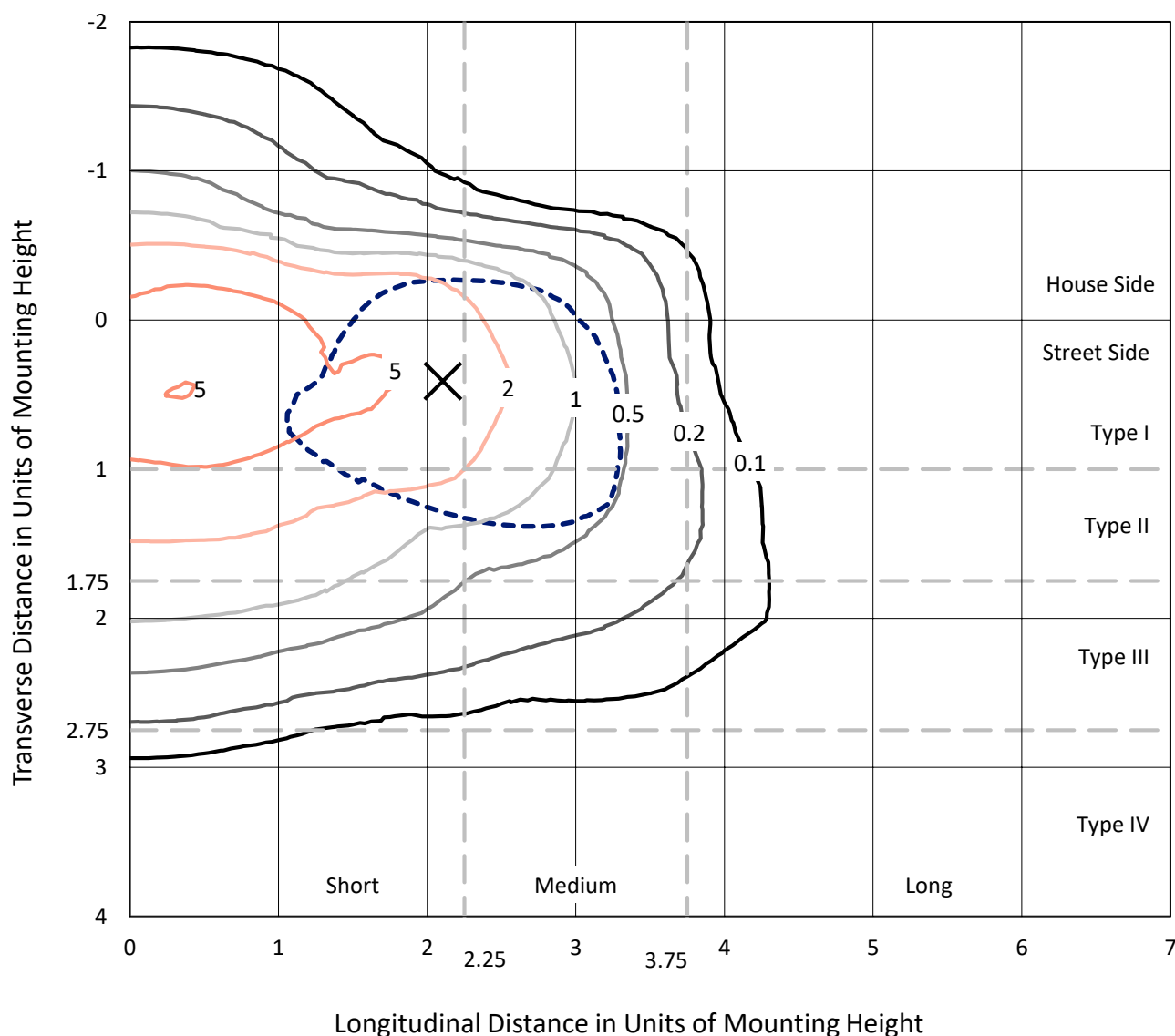
REPORT NUMBER: P177414

CATALOG NUMBER: VAL-F02-LED-E-U-GL2-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

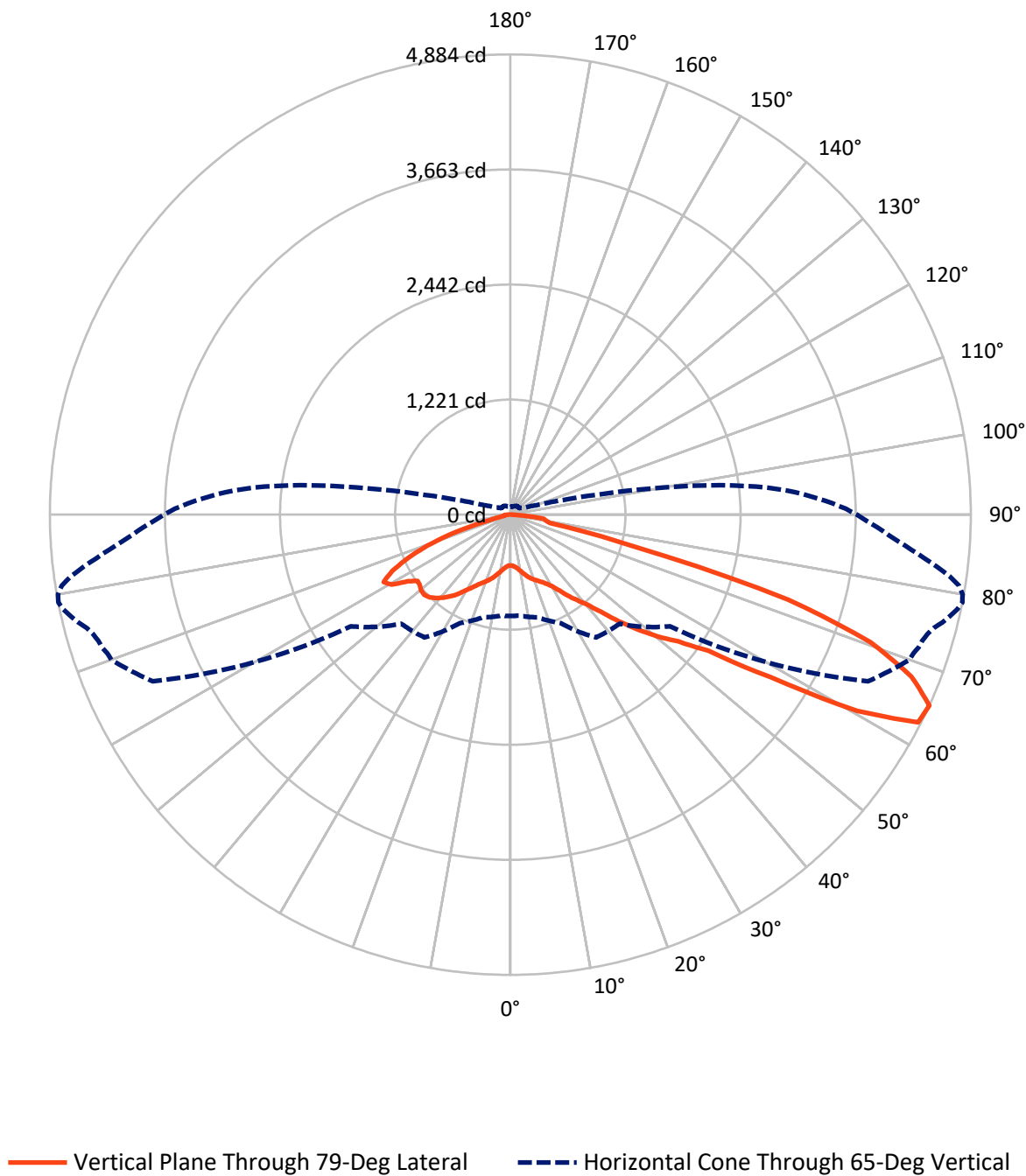


Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P177414

CATALOG NUMBER: VAL-F02-LED-E-U-GL2-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P177414

CATALOG NUMBER: VAL-F02-LED-E-U-GL2-7050

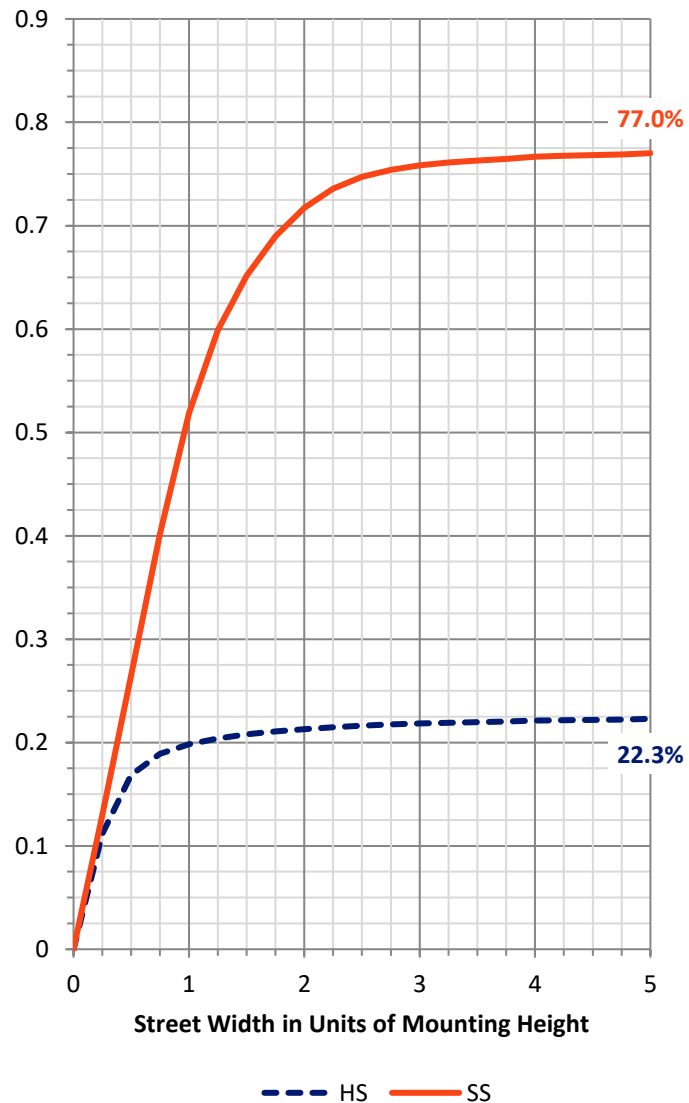
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1126.0	0.0	1126.0
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	3834.5	0.0	3834.5
	% Fixture	77.3	0.0	77.3
Total	Lumens	4960.5	0.0	4960.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.5	1.1
10°-20°	174.2	3.5
20°-30°	300.3	6.1
30°-40°	489.7	9.9
40°-50°	817.5	16.5
50°-60°	1105.4	22.3
60°-70°	1373.3	27.7
70°-80°	549.9	11.1
80°-90°	96.6	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°	4960.5	100.0
0°-180°	4960.5	100.0

Coefficient of Utilization



REPORT NUMBER: P177414

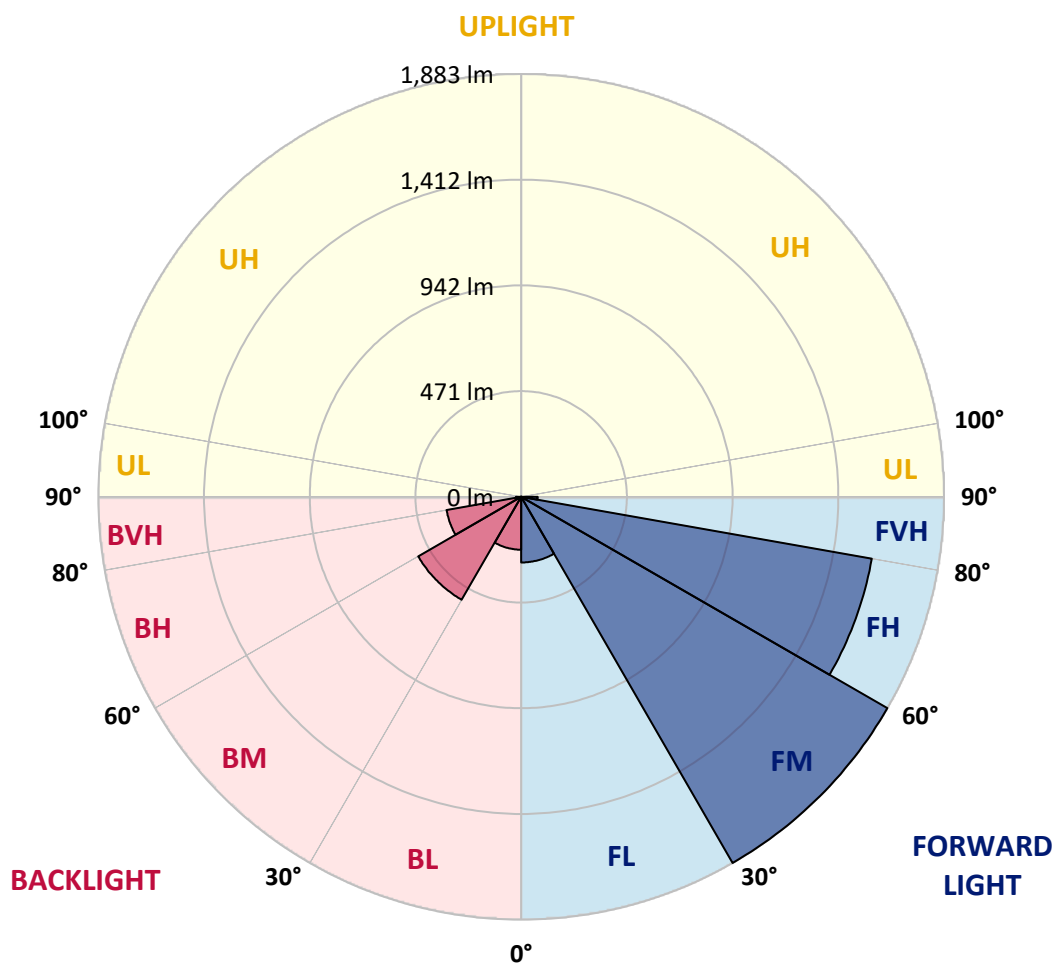
CATALOG NUMBER: VAL-F02-LED-E-U-GL2-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	292.5	5.9			
FM	(30°-60°)	1883.1	38.0			
FH	(60°-80°)	1585.6	32.0			G1/1800
FVH	(80°-90°)	73.3	1.5			G1/100
BL	(0°-30°)	235.5	4.7	B1/500		
BM	(30°-60°)	529.6	10.7	B1/1000		
BH	(60°-80°)	337.5	6.8	B1/500		G1/500
BVH	(80°-90°)	23.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





REPORT NUMBER: P177414

CATALOG NUMBER: VAL-F02-LED-E-U-GL2-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	539.1	539.1	539.1	539.1	539.1	539.1	539.1	539.1	539.1	539.1	539.1
2.5°	543.1	542.8	544.5	545.9	545.9	546.5	546.2	544.2	544.5	545.2	544.5
5°	549.2	547.9	549.6	551.6	553.0	554.7	556.4	556.7	558.1	558.1	557.7
7.5°	562.5	561.4	563.8	564.5	567.5	570.3	573.6	576.0	577.4	578.0	579.1
10°	585.2	584.5	585.2	586.5	587.9	590.9	596.7	601.8	604.8	604.8	606.2
12.5°	612.6	609.9	610.6	607.9	608.5	615.0	621.8	630.2	635.3	636.0	636.7
15°	634.0	632.6	631.6	627.9	630.6	639.0	649.5	661.7	666.1	669.9	669.5
17.5°	653.9	652.2	649.9	644.8	647.5	661.1	677.0	690.5	698.0	698.7	699.3
20°	677.7	675.6	671.2	660.7	660.0	679.0	700.4	714.9	721.7	724.8	725.8
22.5°	707.8	705.1	697.0	676.6	671.2	693.6	719.0	737.0	744.1	747.1	748.8
25°	746.4	741.0	728.1	696.3	685.1	708.5	739.0	760.7	770.5	773.5	775.6
27.5°	781.3	777.3	761.7	724.1	704.8	728.5	763.4	791.2	804.7	808.4	811.5
30°	822.0	816.2	803.7	763.7	738.0	759.0	803.4	838.6	855.2	855.5	862.3
32.5°	917.6	913.8	902.3	858.3	814.9	816.2	857.6	906.0	922.6	925.3	931.4
35°	1059.2	1057.8	1057.5	1033.1	1000.9	967.7	970.7	1007.7	1018.9	1023.3	1025.3
37.5°	1152.4	1164.2	1193.0	1210.6	1202.5	1209.6	1172.4	1127.3	1120.9	1116.1	1118.1
40°	1232.7	1243.2	1301.4	1382.8	1432.2	1467.1	1434.3	1296.0	1244.5	1229.6	1223.9
42.5°	1280.1	1292.0	1375.3	1505.4	1631.5	1714.1	1723.0	1530.8	1400.0	1398.4	1376.7
45°	1305.9	1317.7	1417.3	1592.5	1770.7	1919.8	1997.1	1819.9	1627.7	1613.5	1583.4
47.5°	1300.8	1312.0	1415.6	1624.7	1853.1	2056.4	2210.9	2111.9	1890.3	1856.1	1814.4
50°	1238.8	1246.9	1355.7	1572.2	1831.0	2113.3	2357.2	2379.9	2187.5	2141.1	2078.7
52.5°	1174.7	1189.3	1279.4	1479.0	1731.1	2078.0	2444.7	2623.9	2465.0	2433.1	2353.2
55°	1140.2	1151.7	1225.2	1395.6	1625.7	1957.8	2480.9	2854.0	2802.1	2789.3	2732.7
57.5°	1138.8	1150.0	1208.6	1345.2	1540.0	1832.4	2491.4	3209.4	3361.5	3364.9	3348.7
60°	1194.4	1205.9	1255.0	1369.6	1513.6	1725.0	2453.8	3713.6	4049.7	4079.5	4129.3
62.5°	1202.2	1207.6	1266.9	1421.4	1609.8	1644.7	2299.0	4133.4	4522.7	4550.2	4577.6
65°	1075.4	1075.1	1127.6	1269.9	1589.8	1636.6	2066.2	4184.9	4503.7	4520.3	4554.6
67.5°	802.0	795.2	825.1	955.2	1261.5	1638.6	1790.4	3796.3	4152.7	4184.2	4195.7
70°	413.4	423.9	444.2	523.8	801.0	1319.1	1538.0	3203.0	3645.5	3657.3	3698.3
72.5°	169.8	165.3	179.2	220.2	400.8	871.8	1272.3	2527.7	3010.8	3002.7	3010.2
75°	94.5	95.9	100.0	114.9	194.8	437.8	1093.1	1789.4	2047.6	1907.3	1864.9
77.5°	75.9	76.6	76.9	79.6	106.4	233.5	838.9	1178.5	1029.7	956.2	928.1
80°	55.6	59.3	63.4	64.0	73.2	132.5	460.1	992.1	869.1	808.1	758.0
82.5°	44.7	46.4	55.2	56.6	58.3	78.9	208.4	931.8	865.7	803.4	734.2
85°	26.8	29.8	45.1	45.4	46.1	48.1	115.2	379.5	472.0	417.1	381.9
87.5°	9.5	12.2	22.4	18.6	23.7	19.7	50.5	127.1	156.5	148.7	131.8
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: P177414

CATALOG NUMBER: VAL-F02-LED-E-U-GL2-7050

CANDELA DISTRIBUTION (continued):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	539.1	539.1	539.1	539.1	539.1	539.1	539.1	539.1	539.1	539.1	539.1
2.5°	544.2	544.2	544.8	544.5	544.5	544.5	544.5	543.8	543.8	542.8	543.5
5°	557.7	557.4	557.7	558.1	557.7	558.4	558.1	557.7	558.1	557.7	558.1
7.5°	579.4	577.7	580.1	578.7	578.4	580.4	579.4	580.4	580.8	580.4	580.1
10°	606.8	607.9	607.9	607.9	607.2	609.2	609.6	610.2	610.6	611.9	611.9
12.5°	638.4	638.7	640.1	639.7	640.4	642.8	644.5	644.8	645.1	646.1	644.8
15°	672.2	672.9	672.9	676.0	674.9	678.3	679.4	679.4	679.7	683.8	684.1
17.5°	702.4	702.4	705.1	705.1	707.8	708.5	711.5	711.9	713.2	717.0	717.3
20°	727.8	729.2	730.9	732.9	733.9	735.9	738.0	740.0	741.7	744.7	745.1
22.5°	751.9	753.2	755.9	757.3	759.7	761.0	762.7	765.1	767.8	771.9	772.9
25°	779.6	781.0	784.1	786.1	788.8	790.8	793.9	796.9	798.6	802.7	805.7
27.5°	814.9	819.0	823.0	824.0	826.1	830.8	834.9	838.9	842.7	844.7	848.4
30°	866.4	866.4	874.9	874.9	878.6	883.0	885.7	890.1	896.9	898.9	903.7
32.5°	935.5	937.2	940.3	949.4	956.2	958.2	960.2	966.7	970.7	975.8	981.6
35°	1034.1	1035.8	1037.5	1046.3	1054.1	1056.1	1058.2	1062.2	1069.0	1077.8	1075.1
37.5°	1122.5	1123.6	1129.0	1138.8	1143.2	1148.6	1150.3	1157.8	1161.5	1169.6	1170.0
40°	1228.9	1226.6	1229.6	1240.8	1247.6	1247.2	1252.7	1266.2	1268.9	1272.6	1282.1
42.5°	1377.3	1368.5	1378.0	1381.7	1391.9	1398.4	1409.2	1418.3	1424.8	1439.0	1445.8
45°	1569.1	1560.0	1567.8	1569.5	1590.5	1596.9	1613.2	1625.4	1639.3	1655.5	1660.3
47.5°	1787.7	1770.7	1761.2	1771.7	1796.8	1807.3	1823.2	1834.8	1849.3	1857.8	1855.1
50°	2040.8	2000.1	1981.1	1975.7	1993.7	2008.6	2033.3	2038.7	2045.5	2045.2	2045.5
52.5°	2323.0	2280.7	2241.0	2213.6	2210.9	2230.9	2237.0	2238.3	2236.3	2221.0	2211.5
55°	2691.7	2688.6	2646.9	2590.0	2586.3	2583.9	2548.3	2543.9	2535.8	2512.4	2480.2
57.5°	3360.5	3394.4	3367.0	3365.6	3335.8	3316.1	3250.7	3218.2	3184.0	3120.6	3070.1
60°	4133.7	4182.9	4210.0	4221.8	4280.1	4280.1	4226.6	4180.5	4124.9	4028.4	3934.2
62.5°	4599.3	4642.3	4682.3	4745.0	4819.2	4852.0	4854.8	4813.8	4743.6	4633.5	4500.3
65°	4569.8	4601.7	4650.1	4724.0	4785.3	4844.3	4883.9	4871.4	4817.8	4707.7	4562.7
67.5°	4236.1	4282.5	4345.2	4413.3	4470.2	4525.8	4589.8	4594.5	4580.3	4475.6	4344.5
70°	3721.0	3780.7	3820.3	3906.0	3931.8	3988.0	4052.4	4083.2	4060.2	3979.6	3902.6
72.5°	3023.0	3070.1	3076.9	3039.6	3052.5	3066.4	3082.0	3009.8	2982.0	2874.3	2824.8
75°	1833.1	1771.1	1718.9	1667.0	1512.2	1457.3	1372.9	1206.6	1187.6	1073.4	994.1
77.5°	871.8	845.7	798.6	719.7	614.6	514.0	426.6	346.6	316.8	260.9	222.3
80°	729.8	698.7	656.3	597.7	524.2	451.0	381.9	322.6	262.9	214.1	171.1
82.5°	669.5	615.3	555.7	505.2	453.4	403.5	357.1	303.6	272.1	219.6	179.2
85°	338.5	296.5	240.2	202.3	170.8	138.9	120.3	102.7	91.5	72.8	63.4
87.5°	113.5	92.8	69.1	58.6	52.9	45.4	41.7	39.6	38.6	34.2	30.5
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: P177414

CATALOG NUMBER: VAL-F02-LED-E-U-GL2-7050

CANDELA DISTRIBUTION (continued):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	539.1	539.1	539.1	539.1	539.1	539.1	539.1	539.1	539.1	539.1	539.1
2.5°	543.5	543.5	543.5	543.5	543.1	543.1	543.1	543.1	543.1	543.1	543.5
5°	557.4	557.4	557.7	558.7	556.7	557.4	558.1	557.0	558.1	557.0	558.4
7.5°	579.7	580.8	580.1	581.4	580.8	582.8	581.4	580.4	581.1	581.1	581.4
10°	611.2	612.6	611.6	612.3	612.3	613.6	611.9	612.3	612.6	611.9	612.3
12.5°	646.1	646.8	646.5	648.5	647.5	648.5	647.5	648.9	649.5	650.2	650.2
15°	684.1	684.8	686.8	686.5	688.5	687.8	688.2	686.5	689.9	687.8	688.5
17.5°	719.0	718.7	721.4	722.4	722.7	723.1	724.1	722.7	723.1	724.1	723.4
20°	746.1	748.5	749.2	751.9	753.9	754.6	754.2	755.3	756.6	755.3	755.3
22.5°	774.9	778.3	779.3	781.0	783.0	783.4	785.4	786.4	787.1	786.8	787.1
25°	809.5	811.8	814.2	817.6	820.0	820.3	822.0	823.4	823.7	823.4	825.4
27.5°	851.8	854.9	857.9	862.0	864.7	865.4	869.1	869.1	871.1	872.1	872.8
30°	906.4	907.4	915.2	919.2	918.2	923.0	928.1	927.7	930.1	930.8	932.5
32.5°	985.7	985.7	992.4	997.5	1002.9	1001.2	1009.0	1007.7	1011.4	1013.4	1012.4
35°	1081.9	1085.3	1090.4	1093.4	1099.2	1102.2	1107.6	1110.7	1112.4	1112.0	1108.3
37.5°	1181.2	1186.6	1188.6	1196.1	1201.8	1206.9	1207.6	1204.2	1205.6	1198.8	1196.7
40°	1294.7	1302.5	1307.2	1318.4	1317.7	1324.1	1324.8	1315.0	1313.3	1304.5	1295.3
42.5°	1453.2	1464.1	1467.8	1476.3	1469.5	1472.6	1455.6	1451.5	1438.0	1423.8	1403.1
45°	1667.0	1661.6	1664.0	1661.6	1643.7	1630.5	1616.6	1596.6	1576.6	1549.1	1519.7
47.5°	1855.1	1857.8	1840.2	1829.0	1799.9	1781.2	1755.8	1720.9	1696.5	1659.6	1620.6
50°	2037.7	2007.6	1982.8	1957.1	1931.3	1897.1	1858.8	1828.0	1792.4	1746.3	1698.6
52.5°	2186.1	2147.2	2117.4	2080.8	2045.9	2007.9	1967.9	1923.2	1876.4	1830.4	1771.4
55°	2449.1	2392.5	2354.2	2290.2	2250.5	2197.3	2166.1	2108.2	2043.1	1982.2	1919.5
57.5°	3013.2	2928.5	2884.8	2848.5	2786.9	2699.5	2643.9	2548.7	2455.8	2390.8	2286.4
60°	3863.0	3776.9	3704.4	3618.7	3524.2	3405.6	3352.7	3240.6	3107.8	3000.3	2862.4
62.5°	4392.6	4273.7	4156.1	4035.8	3940.9	3848.1	3738.7	3625.5	3494.0	3348.0	3197.2
65°	4413.9	4271.3	4130.7	4008.0	3896.9	3776.3	3673.6	3558.7	3420.5	3270.1	3113.5
67.5°	4192.3	4032.8	3882.0	3747.5	3620.4	3508.6	3401.2	3293.1	3145.0	3019.0	2858.7
70°	3750.9	3605.2	3468.6	3315.5	3218.2	3092.5	2987.8	2874.0	2767.9	2650.0	2499.9
72.5°	2755.0	2645.2	2489.4	2424.3	2372.2	2239.0	2161.1	2151.6	2083.8	1942.5	1830.4
75°	1024.6	872.1	826.1	853.5	807.8	823.0	817.3	784.7	786.1	762.0	733.6
77.5°	200.6	186.4	175.2	178.2	165.7	160.3	171.8	168.4	162.3	164.0	161.3
80°	136.5	115.5	104.7	100.6	95.6	93.2	92.5	91.5	89.5	88.4	85.4
82.5°	134.5	100.0	78.9	67.8	63.7	61.7	60.0	59.6	59.0	58.6	59.6
85°	53.5	43.4	39.6	36.3	35.2	34.2	34.2	33.9	33.5	34.2	35.6
87.5°	26.1	22.0	20.0	18.3	17.6	17.3	17.3	17.6	18.0	19.3	22.0
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: P177414

CATALOG NUMBER: VAL-F02-LED-E-U-GL2-7050

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	539.1	539.1	539.1	539.1	539.1	539.1	539.1	539.1	539.1	539.1	539.1
2.5°	542.8	543.1	542.5	542.8	542.5	541.8	541.5	542.5	542.1	541.8	541.8
5°	556.7	558.1	557.4	556.7	556.7	556.4	556.4	556.4	556.0	556.4	555.3
7.5°	580.8	580.4	580.4	579.7	579.1	579.7	579.4	578.4	578.7	578.0	577.0
10°	611.6	610.6	612.3	612.3	610.9	610.6	609.9	608.9	608.9	607.9	607.9
12.5°	648.2	647.2	649.5	647.8	645.8	645.5	643.4	642.8	643.8	643.4	642.8
15°	685.5	685.8	686.8	686.5	684.1	684.1	681.4	681.7	679.7	679.0	677.3
17.5°	721.7	722.0	721.0	721.0	719.3	718.3	715.3	715.6	714.3	711.5	709.5
20°	754.2	753.9	751.5	753.6	750.2	749.5	746.8	744.1	744.7	742.0	738.0
22.5°	786.1	785.4	784.7	783.7	782.0	781.3	778.3	778.0	774.6	770.5	767.1
25°	823.0	822.7	821.7	822.0	818.6	819.0	813.5	812.2	810.1	805.7	803.0
27.5°	870.8	870.8	868.1	867.1	866.1	864.7	860.0	856.6	851.5	846.4	841.0
30°	929.4	928.7	928.1	925.3	921.6	919.6	911.1	905.7	898.9	889.4	881.3
32.5°	1013.1	1007.3	1002.6	996.5	990.4	984.0	970.7	961.6	950.8	935.5	922.6
35°	1106.3	1096.5	1091.4	1078.8	1067.3	1054.4	1038.5	1019.9	1005.0	985.0	964.0
37.5°	1183.2	1175.7	1162.2	1148.0	1131.7	1107.3	1089.3	1069.3	1043.3	1021.2	995.8
40°	1278.1	1261.1	1241.8	1218.1	1195.7	1168.3	1143.6	1114.8	1082.9	1051.1	1017.8
42.5°	1377.7	1351.6	1319.7	1292.3	1258.4	1222.5	1190.3	1151.3	1110.7	1068.0	1023.6
45°	1479.3	1447.1	1404.8	1365.8	1318.7	1273.7	1227.6	1174.4	1118.8	1061.9	1006.0
47.5°	1572.5	1525.4	1477.3	1424.8	1370.6	1312.6	1247.2	1177.4	1104.2	1029.4	959.6
50°	1645.7	1586.7	1526.1	1465.4	1399.0	1323.8	1241.5	1150.3	1060.2	970.4	890.1
52.5°	1710.4	1644.3	1569.8	1494.6	1412.6	1320.1	1217.1	1109.7	999.9	900.6	810.5
55°	1835.8	1752.8	1654.5	1557.6	1453.9	1337.4	1208.9	1077.5	951.1	843.0	747.1
57.5°	2176.3	2064.2	1912.0	1777.5	1646.0	1476.3	1295.3	1133.4	972.4	844.7	738.0
60°	2712.7	2530.0	2355.9	2150.9	1938.1	1705.3	1462.7	1244.5	1048.3	888.1	759.7
62.5°	3023.7	2830.9	2607.0	2358.6	2082.8	1799.2	1520.7	1265.9	1050.7	876.2	733.9
65°	2939.7	2745.9	2499.6	2245.4	1952.0	1662.0	1385.5	1140.8	932.1	770.8	634.6
67.5°	2690.3	2487.7	2256.3	1974.4	1693.8	1425.1	1173.0	942.6	758.0	607.5	487.2
70°	2327.4	2147.2	1924.2	1664.3	1392.3	1150.7	938.2	730.5	574.3	436.4	341.5
72.5°	1727.4	1567.8	1428.5	1211.3	1012.1	822.7	649.5	508.2	373.7	282.6	217.5
75°	725.1	671.2	648.5	568.9	494.7	405.6	305.3	243.3	197.2	167.7	133.2
77.5°	175.9	175.9	165.3	154.8	142.3	128.8	113.8	101.6	95.6	90.1	85.7
80°	85.4	84.7	82.0	81.7	79.3	76.2	74.5	72.2	71.2	69.8	69.1
82.5°	60.0	59.6	58.6	60.0	59.6	61.0	61.7	62.0	62.0	62.3	62.7
85°	37.9	39.3	42.0	45.4	48.5	52.2	55.6	58.3	60.3	62.0	63.4
87.5°	24.1	27.4	29.5	34.6	39.6	45.4	51.8	54.6	56.9	57.3	55.2
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: P177414

CATALOG NUMBER: VAL-F02-LED-E-U-GL2-7050

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	539.1	539.1	539.1	539.1	539.1	539.1	539.1	539.1	539.1	539.1	539.1
2.5°	541.8	541.5	542.1	541.5	541.5	541.1	540.1	539.1	538.1	537.7	536.7
5°	555.0	555.0	555.7	554.3	554.7	553.3	550.3	546.9	543.8	541.1	538.1
7.5°	577.4	576.4	576.7	576.4	575.7	573.0	566.2	557.7	549.6	541.1	534.3
10°	607.2	605.2	605.2	604.5	603.5	599.7	585.5	568.6	551.6	536.4	525.2
12.5°	640.4	640.7	638.0	636.3	634.6	626.8	605.5	578.4	551.6	527.2	509.3
15°	674.9	674.6	671.6	670.5	666.8	655.3	623.1	583.5	545.2	509.3	482.5
17.5°	706.1	704.8	701.7	699.7	695.6	680.4	635.0	581.1	528.2	481.1	447.6
20°	734.6	732.9	730.2	726.5	722.4	700.4	639.4	568.9	501.5	447.6	413.7
22.5°	764.1	760.3	757.3	752.2	747.8	718.3	636.3	547.2	471.0	410.3	374.1
25°	796.9	792.5	786.1	780.0	773.2	732.9	627.9	520.1	434.4	370.0	333.4
27.5°	832.5	826.1	817.6	809.8	799.0	743.7	613.3	489.9	394.4	330.0	292.1
30°	870.1	858.3	847.8	835.9	822.0	748.8	592.3	452.7	350.4	289.4	251.4
32.5°	906.7	890.8	875.2	857.9	838.9	746.8	562.5	408.6	306.3	251.4	219.6
35°	944.0	920.9	899.3	875.9	852.8	736.6	521.5	359.8	264.6	219.9	196.9
37.5°	969.4	940.6	911.8	883.7	855.9	714.6	466.9	305.3	227.0	197.2	180.6
40°	982.3	947.0	911.8	876.9	842.7	678.0	403.2	255.5	200.2	180.3	168.4
42.5°	978.5	934.8	891.1	849.8	807.8	619.7	334.1	214.5	181.6	167.0	156.5
45°	947.7	895.5	845.7	802.0	749.5	544.8	274.5	189.1	167.4	156.2	146.4
47.5°	889.8	831.5	770.5	721.0	671.9	458.1	228.4	173.1	154.8	145.7	135.9
50°	815.9	748.5	687.5	634.0	585.8	377.1	196.9	159.6	144.7	136.9	126.4
52.5°	734.6	662.1	606.5	550.3	503.2	314.8	174.8	144.7	134.9	126.7	118.3
55°	667.2	600.1	543.5	486.9	439.5	275.5	156.5	133.2	125.7	117.2	110.5
57.5°	649.2	572.6	511.0	457.4	408.6	251.4	143.3	122.7	117.6	111.1	103.7
60°	656.7	572.3	503.2	444.5	393.4	232.1	133.5	115.5	111.5	105.7	97.9
62.5°	629.9	540.8	471.0	408.6	360.2	207.7	126.4	112.2	109.4	101.6	92.8
65°	536.7	455.0	388.0	334.1	292.4	174.8	120.6	115.2	112.5	98.9	89.5
67.5°	408.6	340.5	286.7	246.3	216.2	144.7	119.3	125.4	119.9	100.3	88.4
70°	282.6	231.1	196.5	172.1	153.2	122.0	123.7	136.5	128.8	104.7	94.2
72.5°	179.2	149.8	132.8	123.7	114.5	103.0	122.7	135.2	124.7	105.4	94.2
75°	114.9	102.7	96.9	93.5	90.8	89.8	108.1	111.1	100.3	91.5	87.8
77.5°	81.3	79.3	78.3	77.9	78.3	80.6	89.5	83.7	72.8	73.2	75.2
80°	68.8	68.8	68.1	68.4	69.1	70.1	71.5	61.7	55.9	60.3	67.1
82.5°	63.0	64.0	64.7	65.4	66.4	65.1	60.7	46.8	45.1	58.6	65.7
85°	64.0	64.0	64.4	65.1	65.4	58.6	50.5	35.2	34.6	65.7	62.0
87.5°	54.9	54.2	51.8	50.1	47.8	40.3	33.5	19.7	20.3	40.7	43.4
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: P177414

CATALOG NUMBER: VAL-F02-LED-E-U-GL2-7050

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	539.1	539.1
2.5°	536.4	536.4
5°	536.4	536.4
7.5°	532.0	530.6
10°	519.1	517.4
12.5°	499.4	497.7
15°	469.3	467.2
17.5°	431.7	428.3
20°	392.4	387.6
22.5°	353.1	349.3
25°	312.7	309.4
27.5°	273.1	269.7
30°	236.5	235.1
32.5°	209.4	208.0
35°	189.4	188.7
37.5°	175.9	175.2
40°	164.0	163.3
42.5°	153.2	152.1
45°	142.3	142.6
47.5°	131.5	131.1
50°	122.0	122.0
52.5°	114.2	113.8
55°	107.1	106.7
57.5°	100.0	99.6
60°	93.9	92.8
62.5°	88.1	87.4
65°	84.4	84.0
67.5°	81.7	80.6
70°	81.0	78.3
72.5°	78.9	75.6
75°	74.2	72.5
77.5°	65.4	63.4
80°	50.5	46.8
82.5°	42.4	36.6
85°	31.2	28.8
87.5°	22.7	18.0
90°	0.0	0.0

(END OF REPORT)