

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: P670645

Luminaire Tested: **VAL-F02-LED-EU-RW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P670645
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33700)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VAL-F02-LED-EU-RW-7050
Description: VALET LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (14) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5088.7 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

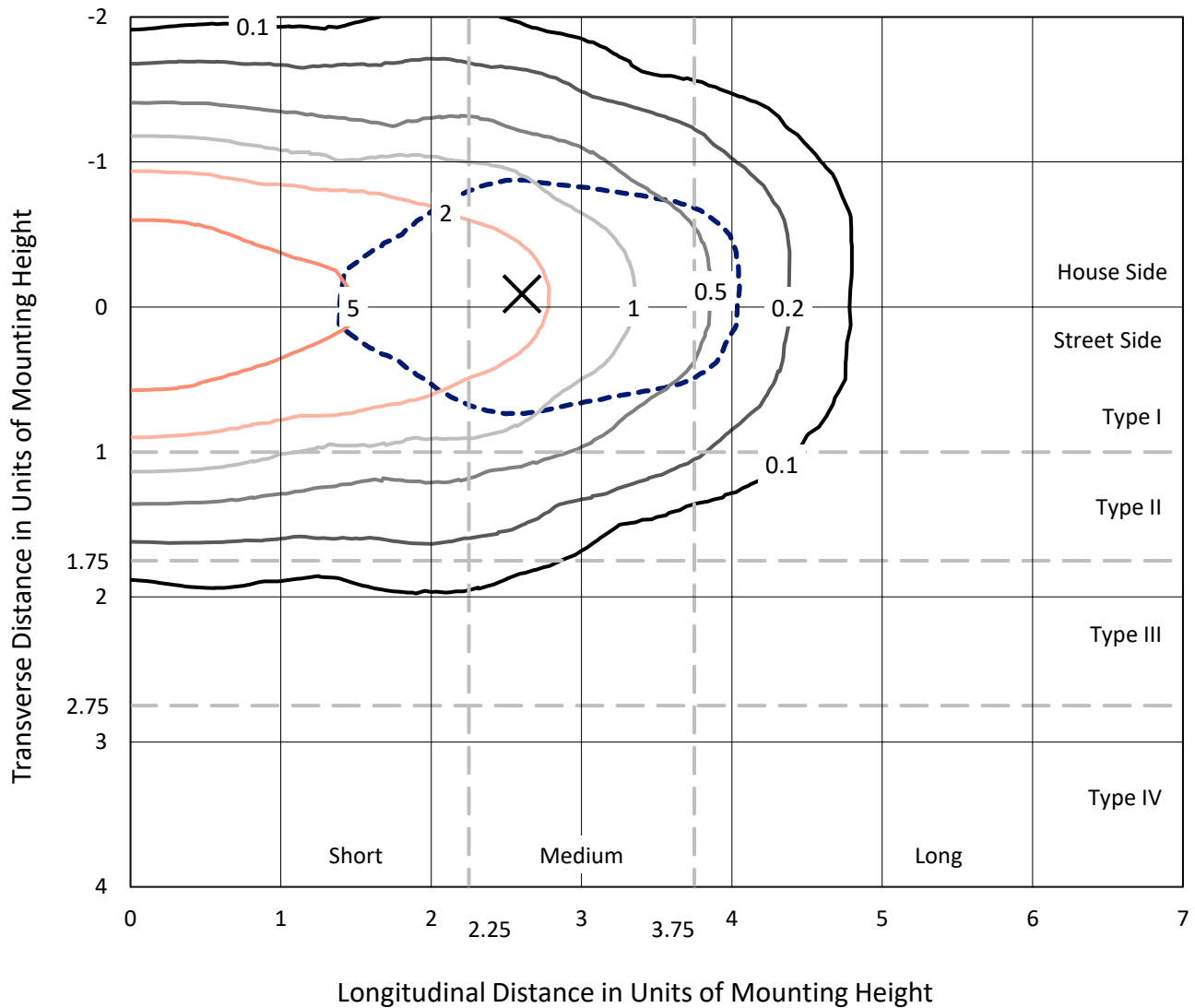
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

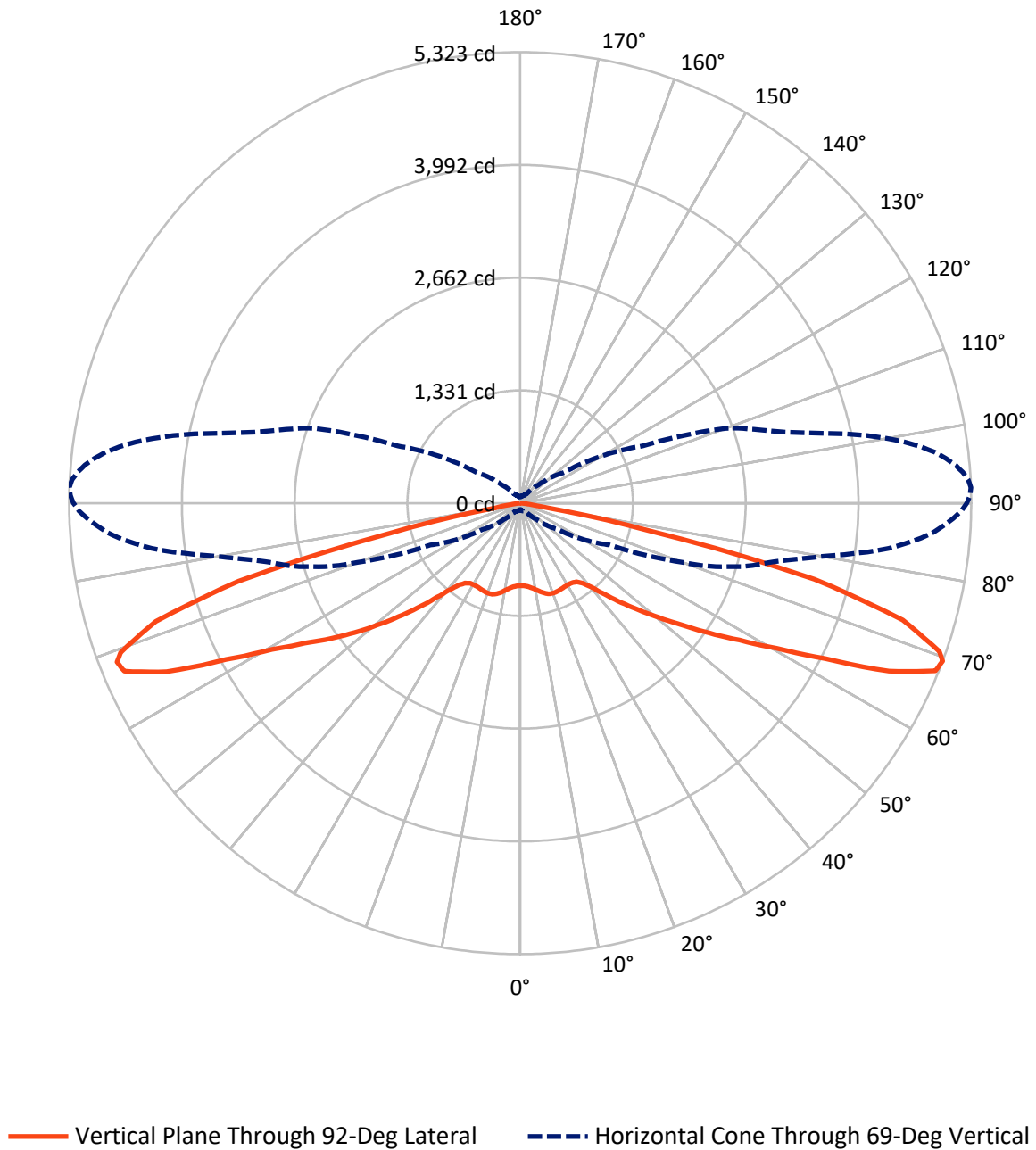
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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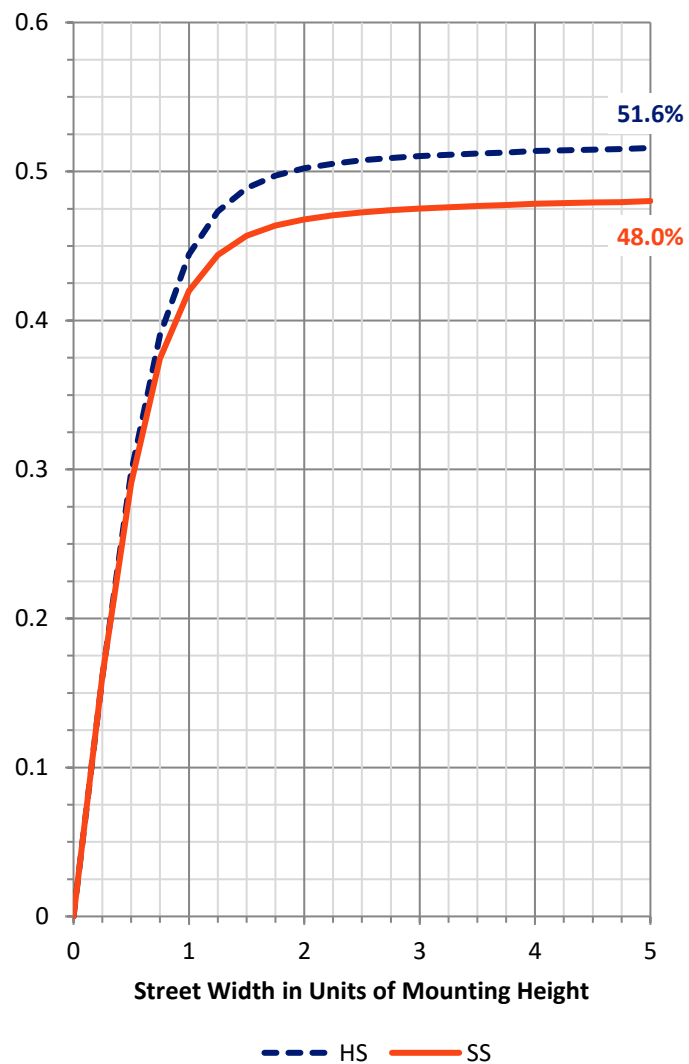
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2646.9	0.0	2646.9
	% Fixture	52.0	0.0	52.0
Street Side	Lumens	2441.8	0.0	2441.8
	% Fixture	48.0	0.0	48.0
Total	Lumens	5088.7	0.0	5088.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.3	1.9
10°-20°	300.3	5.9
20°-30°	486.3	9.6
30°-40°	605.8	11.9
40°-50°	754.2	14.8
50°-60°	925.4	18.2
60°-70°	1141.3	22.4
70°-80°	709.5	13.9
80°-90°	70.5	1.4
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°	5088.7	100.0
0°-180°	5088.7	100.0

Coefficient of Utilization



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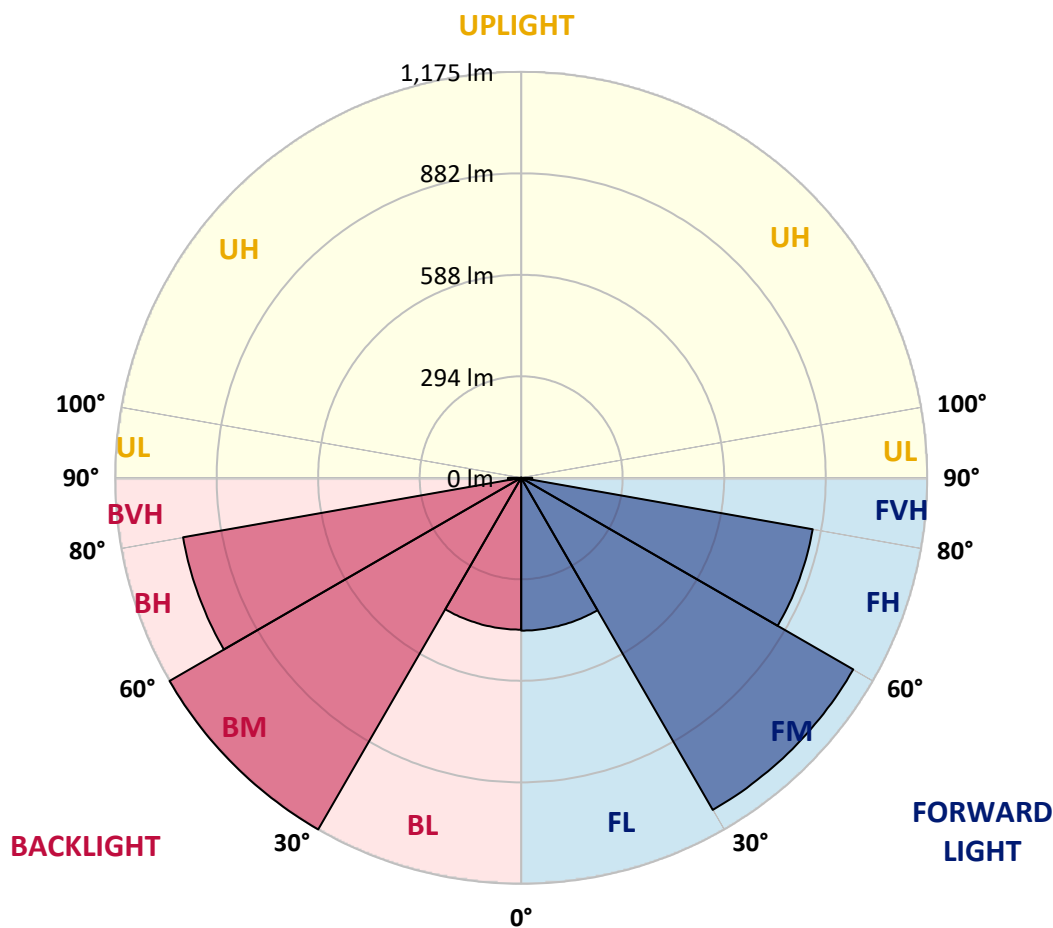
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	442.3	8.7			
FM	(30°-60°)	1110.1	21.8			
FH	(60°-80°)	857.1	16.8			G1/1800
FVH	(80°-90°)	32.2	0.6			G1/100
BL	(0°-30°)	439.6	8.6	B1/500		
BM	(30°-60°)	1175.3	23.1	B2/2500		
BH	(60°-80°)	993.8	19.5	B2/1000		G2/1000
BVH	(80°-90°)	38.2	0.8			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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	974.5	974.5	974.5	974.5	974.5	974.5	974.5	974.5	974.5	974.5	974.5
2.5°	991.4	990.4	992.8	993.8	991.8	990.7	988.0	984.6	984.6	983.6	982.6
5°	1005.6	1004.0	1006.3	1007.0	1006.0	1005.3	1002.9	998.5	999.2	998.2	996.2
7.5°	1017.2	1014.5	1017.5	1018.9	1021.6	1022.3	1021.2	1019.2	1018.9	1018.2	1018.5
10°	1026.3	1023.9	1028.7	1032.4	1037.2	1039.5	1043.6	1045.0	1045.0	1045.6	1047.0
12.5°	1031.1	1028.7	1036.1	1043.6	1053.1	1061.6	1068.0	1073.1	1075.4	1075.1	1074.8
15°	1026.7	1025.0	1035.5	1051.1	1069.3	1086.6	1095.8	1100.5	1102.6	1103.2	1103.2
17.5°	1011.4	1009.4	1023.6	1049.4	1081.2	1108.7	1124.2	1123.9	1121.9	1122.2	1121.2
20°	980.9	980.2	998.9	1034.8	1084.9	1128.0	1146.3	1139.1	1131.4	1130.0	1128.6
22.5°	936.9	937.2	959.2	1004.6	1075.1	1136.1	1160.8	1149.7	1135.4	1132.7	1130.7
25°	882.0	883.0	906.4	961.6	1044.3	1129.0	1166.6	1157.1	1140.8	1137.5	1134.1
27.5°	823.0	821.0	849.4	904.7	996.2	1100.2	1163.2	1168.3	1152.7	1149.3	1144.9
30°	758.0	759.0	789.1	847.8	940.6	1052.4	1151.7	1180.8	1171.0	1168.6	1163.5
32.5°	697.0	698.0	725.1	792.2	886.7	998.2	1132.7	1194.4	1195.7	1193.4	1190.6
35°	634.3	638.4	667.8	737.6	835.6	946.7	1108.3	1212.3	1226.9	1228.6	1229.3
37.5°	579.4	582.8	611.2	685.5	788.8	908.1	1081.5	1236.7	1273.7	1278.7	1283.2
40°	522.5	525.5	555.3	632.6	743.1	876.6	1061.2	1269.6	1329.6	1343.5	1352.9
42.5°	472.3	474.0	501.1	574.7	688.2	841.3	1050.7	1309.9	1401.7	1419.7	1432.6
45°	420.5	420.5	446.2	514.7	627.2	792.5	1046.6	1355.7	1479.3	1499.7	1523.0
47.5°	367.3	370.0	397.8	465.2	561.4	722.7	1032.4	1408.5	1566.8	1590.1	1622.7
50°	315.1	319.9	348.7	412.7	503.5	653.6	989.0	1469.2	1663.0	1694.8	1729.7
52.5°	261.6	266.7	294.1	357.5	447.6	585.2	903.0	1533.5	1765.0	1804.6	1842.9
55°	208.7	209.1	236.5	298.5	389.0	531.3	802.7	1577.6	1864.9	1913.7	1950.6
57.5°	150.4	153.5	179.2	236.8	331.4	479.8	715.3	1573.9	1946.9	1998.8	2048.6
60°	110.1	112.8	135.9	177.2	261.9	425.6	651.6	1487.8	1996.4	2064.8	2130.2
62.5°	93.2	96.6	115.5	137.9	200.6	367.3	600.4	1355.3	2064.8	2156.0	2247.1
65°	84.4	87.4	107.4	118.9	157.2	308.3	568.6	1257.7	2149.5	2290.8	2417.2
67.5°	77.9	81.0	98.3	107.1	134.9	277.2	556.7	1233.7	2166.1	2355.5	2518.9
69°	74.5	77.6	92.8	101.6	129.8	268.4	536.7	1166.9	2041.1	2261.4	2425.0
70°	72.5	75.2	89.1	97.9	127.4	259.2	505.5	1072.7	1887.6	2119.0	2283.0
72.5°	66.7	68.8	80.3	88.1	116.6	204.3	374.7	730.2	1378.0	1592.2	1761.2
75°	58.6	61.3	70.5	77.9	89.1	119.9	235.1	420.1	824.0	977.5	1137.5
77.5°	50.1	52.9	60.3	73.9	72.8	82.3	147.4	259.2	425.9	502.8	602.8
80°	43.0	45.1	52.2	70.5	60.3	65.7	110.8	201.9	277.5	301.6	321.2
82.5°	33.2	35.2	43.4	57.3	48.5	48.8	83.0	187.0	241.6	260.6	272.1
85°	21.3	21.7	31.9	38.6	34.6	28.5	51.5	136.9	180.3	194.1	195.5
87.5°	7.1	8.8	13.2	11.2	12.9	10.8	14.9	42.0	66.7	69.8	70.1
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°	974.5	974.5	974.5	974.5	974.5	974.5	974.5	974.5	974.5	974.5	974.5
2.5°	982.6	982.3	982.3	982.6	982.3	981.9	981.6	980.2	979.6	978.9	978.9
5°	996.5	996.5	996.5	995.5	995.5	995.8	994.5	993.8	992.4	992.4	991.4
7.5°	1017.5	1018.2	1017.5	1016.8	1016.2	1016.2	1014.8	1015.5	1015.1	1014.5	1014.5
10°	1044.6	1045.6	1046.3	1046.0	1044.3	1043.9	1044.3	1044.6	1043.6	1042.9	1043.9
12.5°	1074.1	1075.4	1076.5	1076.5	1075.8	1077.5	1076.5	1076.1	1076.1	1075.8	1076.5
15°	1103.9	1103.6	1103.9	1103.9	1104.2	1103.6	1104.2	1104.9	1105.3	1104.6	1105.9
17.5°	1121.9	1120.9	1120.9	1121.2	1120.2	1120.2	1120.2	1121.5	1121.5	1122.2	1121.9
20°	1127.3	1126.9	1125.3	1124.9	1122.5	1123.2	1123.2	1123.9	1123.9	1123.9	1124.9
22.5°	1128.0	1124.9	1122.9	1120.9	1117.5	1117.1	1117.1	1116.8	1116.8	1117.1	1117.5
25°	1130.3	1125.6	1121.9	1118.1	1114.4	1111.7	1110.3	1108.7	1107.6	1107.6	1107.0
27.5°	1140.5	1134.7	1129.3	1124.2	1118.1	1114.1	1110.3	1107.3	1104.2	1102.9	1101.2
30°	1158.5	1152.7	1146.9	1141.2	1132.7	1127.3	1121.2	1115.4	1111.4	1108.3	1104.9
32.5°	1186.2	1182.5	1176.1	1169.6	1162.2	1154.1	1148.6	1139.8	1133.7	1130.0	1122.5
35°	1226.2	1224.9	1222.2	1217.1	1208.9	1202.8	1197.1	1189.0	1180.8	1172.4	1169.0
37.5°	1284.5	1287.2	1283.5	1283.2	1281.8	1276.4	1273.7	1263.8	1258.4	1251.6	1246.6
40°	1356.7	1365.1	1371.6	1375.3	1379.4	1383.8	1383.4	1380.1	1375.3	1375.7	1371.2
42.5°	1446.8	1461.7	1475.6	1483.4	1501.4	1515.6	1527.8	1535.6	1539.0	1546.4	1549.8
45°	1543.0	1566.8	1587.4	1606.4	1637.2	1660.9	1690.8	1713.5	1726.0	1748.4	1747.7
47.5°	1650.1	1675.2	1703.0	1737.9	1767.0	1806.6	1847.3	1893.4	1920.8	1951.0	1972.0
50°	1761.2	1794.8	1829.0	1861.5	1906.9	1959.5	2012.7	2065.8	2114.0	2160.4	2193.6
52.5°	1879.2	1917.1	1952.3	1996.0	2046.9	2112.9	2172.2	2238.0	2303.7	2369.4	2412.8
55°	1995.4	2035.7	2073.0	2124.5	2187.1	2253.9	2324.4	2406.4	2489.4	2575.4	2632.0
57.5°	2096.7	2133.6	2186.1	2232.9	2301.7	2375.9	2461.3	2559.5	2662.5	2768.9	2846.9
60°	2190.2	2239.7	2294.2	2349.1	2432.5	2517.2	2625.6	2742.2	2873.6	2994.6	3114.2
62.5°	2324.0	2388.1	2472.8	2538.2	2635.4	2731.0	2858.0	3008.8	3172.1	3334.4	3460.1
65°	2525.3	2621.5	2726.9	2810.3	2925.1	3054.9	3211.4	3401.2	3611.6	3812.2	3985.0
67.5°	2657.1	2784.8	2897.0	3011.5	3139.3	3287.0	3464.2	3684.4	3925.0	4157.8	4388.9
69°	2566.3	2713.4	2839.7	2952.2	3075.6	3223.3	3417.8	3623.5	3873.8	4137.1	4381.4
70°	2424.7	2580.2	2717.4	2826.2	2948.5	3095.6	3294.8	3494.0	3746.8	4025.0	4251.6
72.5°	1906.9	2075.7	2217.0	2317.6	2439.9	2581.5	2764.2	2986.8	3247.3	3494.4	3743.4
75°	1261.8	1406.1	1549.5	1641.6	1752.8	1899.5	2041.5	2235.9	2448.4	2659.5	2812.3
77.5°	672.9	754.2	856.2	909.8	995.8	1064.6	1109.3	1265.9	1300.4	1370.2	1376.7
80°	318.8	303.9	297.5	281.6	294.4	291.1	271.1	281.9	276.8	261.6	257.5
82.5°	266.3	235.8	193.8	162.0	142.0	122.0	102.7	95.6	94.2	91.1	94.5
85°	196.2	185.0	151.1	114.5	91.1	68.1	59.0	53.5	51.8	50.5	52.2
87.5°	74.2	73.5	62.7	51.5	35.6	23.4	21.3	19.3	19.7	19.0	19.0
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°	974.5	974.5	974.5	974.5	974.5	974.5	974.5	974.5	974.5	974.5	974.5
2.5°	978.2	978.9	978.2	977.9	976.8	976.5	976.8	976.5	977.2	977.2	976.5
5°	991.4	991.4	991.4	990.7	989.7	989.7	989.0	988.0	989.0	988.7	988.0
7.5°	1013.1	1012.1	1012.4	1011.7	1010.1	1011.1	1010.4	1009.4	1010.1	1009.0	1008.7
10°	1042.2	1041.9	1042.2	1040.9	1040.2	1040.5	1039.9	1038.9	1039.2	1040.2	1038.2
12.5°	1076.8	1075.8	1075.4	1075.1	1074.4	1074.1	1073.4	1074.8	1074.1	1072.1	1071.4
15°	1104.2	1105.9	1105.9	1105.3	1104.9	1105.3	1104.2	1105.3	1104.2	1104.2	1103.6
17.5°	1121.5	1123.2	1123.6	1123.6	1123.6	1123.6	1124.2	1124.6	1124.6	1123.9	1123.2
20°	1124.9	1126.6	1126.9	1128.0	1128.6	1129.0	1130.0	1130.7	1131.7	1131.7	1131.7
22.5°	1117.8	1119.8	1120.9	1121.9	1123.6	1125.3	1126.3	1128.3	1129.3	1130.3	1130.3
25°	1107.6	1109.0	1110.7	1113.1	1115.4	1117.5	1119.5	1121.2	1122.9	1124.6	1124.6
27.5°	1100.9	1102.2	1103.9	1105.9	1108.3	1110.7	1113.1	1115.4	1117.5	1119.5	1119.8
30°	1102.6	1102.9	1103.2	1104.6	1107.0	1109.0	1111.4	1113.4	1115.4	1117.1	1117.5
32.5°	1119.8	1117.1	1114.4	1114.8	1114.8	1116.1	1117.1	1119.5	1120.5	1121.2	1120.5
35°	1160.5	1151.0	1150.3	1147.6	1143.6	1143.2	1143.2	1142.2	1141.5	1141.2	1140.2
37.5°	1240.1	1227.2	1224.9	1216.1	1211.7	1210.0	1202.2	1203.2	1198.4	1196.4	1196.1
40°	1363.1	1358.4	1354.3	1344.5	1333.3	1335.3	1327.5	1319.4	1309.2	1311.6	1309.9
42.5°	1546.4	1543.7	1541.0	1532.2	1521.3	1513.6	1505.8	1495.3	1476.3	1480.3	1469.2
45°	1761.6	1766.7	1760.6	1756.2	1736.5	1722.6	1707.4	1689.1	1673.8	1667.7	1661.6
47.5°	1987.9	1993.0	1991.3	1981.1	1965.6	1945.9	1927.6	1909.3	1886.6	1870.0	1866.3
50°	2219.3	2218.0	2228.5	2221.0	2214.6	2182.4	2165.5	2143.4	2119.7	2109.2	2100.7
52.5°	2439.9	2477.2	2476.2	2474.8	2479.6	2448.7	2431.1	2403.3	2388.1	2382.3	2365.4
55°	2675.7	2711.3	2738.8	2748.6	2751.0	2749.6	2732.0	2721.1	2704.5	2711.7	2681.2
57.5°	2905.1	2962.4	3007.8	3032.5	3034.6	3069.5	3051.8	3059.0	3050.1	3047.8	3028.5
60°	3188.1	3255.5	3333.1	3387.6	3398.5	3465.2	3463.2	3485.9	3477.8	3472.0	3454.4
62.5°	3605.5	3684.4	3790.5	3873.5	3931.8	3969.4	4011.8	4019.2	4038.2	4028.4	4002.3
65°	4176.4	4271.0	4416.0	4529.8	4621.3	4645.0	4723.3	4748.0	4782.6	4743.6	4694.8
67.5°	4581.0	4734.5	4876.1	4997.1	5076.7	5161.4	5233.9	5274.9	5285.4	5248.5	5193.6
69°	4571.2	4747.4	4893.4	5009.3	5114.0	5207.5	5270.5	5310.1	5323.0	5294.2	5237.0
70°	4454.9	4648.1	4798.5	4924.6	5032.3	5135.3	5190.5	5232.2	5247.1	5227.8	5161.1
72.5°	3889.4	4103.6	4202.9	4367.9	4521.0	4606.1	4646.7	4688.4	4719.9	4707.4	4633.5
75°	3022.7	3144.3	3197.9	3315.1	3450.3	3496.7	3510.3	3536.7	3584.8	3582.5	3529.6
77.5°	1502.4	1484.8	1467.1	1479.3	1577.3	1461.7	1506.8	1503.1	1538.6	1558.6	1544.0
80°	270.7	278.2	284.6	266.7	292.4	280.9	261.6	278.2	275.1	281.9	283.3
82.5°	94.2	95.9	96.6	98.9	99.3	98.3	96.9	100.3	100.0	100.6	100.6
85°	50.8	51.2	49.8	49.8	48.5	48.1	47.8	48.8	50.8	49.8	50.8
87.5°	17.3	16.9	15.6	14.2	13.2	12.2	11.2	11.9	13.2	13.9	16.6
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):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	974.5	974.5	974.5	974.5	974.5	974.5	974.5	974.5	974.5	974.5	974.5
2.5°	976.5	976.5	975.8	974.8	973.8	973.5	973.5	973.8	973.5	973.5	972.8
5°	986.3	987.0	987.0	985.3	984.6	984.0	983.3	983.3	982.9	982.6	982.3
7.5°	1007.0	1005.6	1007.3	1004.0	1004.3	1003.6	1002.6	1002.9	1000.6	1000.9	1000.9
10°	1036.1	1033.8	1035.1	1034.1	1032.8	1032.1	1030.4	1031.4	1028.7	1028.7	1028.3
12.5°	1070.7	1068.0	1068.3	1067.7	1067.0	1064.3	1063.6	1063.9	1061.9	1060.5	1059.9
15°	1100.9	1100.2	1100.2	1100.2	1098.1	1096.5	1094.4	1094.4	1092.4	1091.7	1090.4
17.5°	1121.9	1121.5	1120.9	1120.9	1119.2	1117.5	1117.1	1116.1	1114.4	1112.4	1111.7
20°	1130.7	1130.3	1129.7	1129.3	1128.0	1126.9	1124.6	1123.2	1122.2	1120.5	1118.8
22.5°	1130.0	1129.0	1129.0	1128.3	1125.9	1124.6	1122.2	1120.2	1118.1	1117.1	1114.4
25°	1124.6	1123.2	1123.2	1121.5	1118.8	1116.4	1113.4	1110.3	1107.6	1105.6	1102.6
27.5°	1119.2	1117.5	1116.8	1113.7	1110.3	1106.6	1102.9	1099.2	1095.8	1093.1	1091.4
30°	1116.4	1114.1	1112.0	1108.3	1102.9	1098.8	1093.7	1090.7	1088.0	1086.0	1084.9
32.5°	1118.1	1115.8	1112.7	1108.3	1102.6	1097.8	1093.4	1090.7	1089.3	1089.3	1090.4
35°	1135.8	1133.0	1129.3	1124.6	1119.2	1114.8	1112.0	1109.0	1112.7	1113.1	1116.8
37.5°	1191.3	1187.9	1180.5	1178.5	1168.3	1166.6	1166.3	1165.2	1167.9	1172.4	1177.8
40°	1303.5	1296.0	1286.2	1284.5	1278.4	1275.4	1274.7	1273.0	1270.6	1279.8	1282.5
42.5°	1458.3	1459.7	1447.1	1442.1	1443.4	1431.6	1441.0	1441.7	1436.0	1434.6	1432.2
45°	1649.4	1652.5	1651.5	1645.0	1648.4	1644.7	1635.5	1643.7	1632.8	1617.2	1604.4
47.5°	1861.2	1863.2	1863.6	1869.0	1876.8	1874.4	1863.9	1848.0	1833.7	1806.3	1777.8
50°	2099.4	2111.9	2110.9	2113.3	2120.1	2104.5	2090.6	2067.5	2034.3	1991.0	1942.9
52.5°	2384.7	2372.5	2383.3	2374.9	2374.2	2355.5	2316.6	2283.4	2220.4	2164.8	2091.9
55°	2700.8	2686.2	2677.1	2658.5	2637.8	2600.5	2545.6	2475.8	2401.3	2328.8	2242.4
57.5°	3022.0	3002.7	2985.1	2951.6	2905.5	2840.4	2771.3	2681.2	2581.9	2479.2	2384.7
60°	3442.2	3395.8	3357.5	3311.0	3235.8	3133.2	3046.1	2916.0	2790.6	2659.5	2535.8
62.5°	3933.5	3892.1	3787.8	3718.7	3630.2	3507.9	3391.7	3218.5	3072.2	2893.9	2753.7
65°	4637.6	4537.3	4447.8	4308.9	4178.8	4017.2	3856.2	3636.3	3431.7	3231.4	3057.6
67.5°	5102.8	5005.5	4895.4	4752.8	4587.4	4403.8	4185.6	3949.4	3694.6	3467.2	3277.5
69°	5156.7	5052.6	4930.7	4775.8	4600.0	4395.0	4173.7	3930.1	3660.0	3433.7	3239.2
70°	5081.1	4966.6	4852.0	4687.0	4507.5	4292.3	4065.6	3821.7	3538.4	3326.3	3125.0
72.5°	4587.8	4490.5	4330.6	4152.4	3994.5	3748.1	3515.0	3289.4	3016.9	2800.1	2631.7
75°	3514.7	3425.2	3361.9	3198.9	3054.2	2843.8	2705.6	2454.8	2308.1	2078.7	1916.1
77.5°	1611.1	1594.9	1636.2	1597.9	1534.6	1469.5	1443.8	1326.2	1225.2	1167.9	1083.2
80°	286.7	293.1	308.7	309.0	301.2	304.9	325.3	327.3	354.4	349.3	383.2
82.5°	102.0	101.6	103.7	103.7	105.4	108.8	121.6	142.0	167.4	194.8	230.1
85°	51.8	55.6	57.9	57.9	59.0	61.3	66.7	83.0	104.0	135.9	172.1
87.5°	17.3	20.0	22.4	24.1	23.7	24.4	26.1	30.8	44.7	61.3	83.4
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):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	974.5	974.5	974.5	974.5	974.5	974.5	974.5	974.5	974.5	974.5	974.5
2.5°	972.4	973.1	972.1	972.1	971.8	971.1	969.4	968.0	966.3	965.3	963.0
5°	981.9	981.6	980.9	980.9	979.9	978.2	974.8	971.8	968.7	966.7	964.3
7.5°	999.5	999.9	999.5	998.9	997.2	995.1	989.0	984.0	980.6	975.5	972.8
10°	1026.0	1026.0	1025.0	1023.3	1023.9	1019.5	1009.7	1002.3	995.1	987.4	982.3
12.5°	1057.5	1057.8	1055.8	1055.8	1055.8	1049.4	1035.5	1022.3	1011.4	999.2	990.7
15°	1088.7	1087.6	1086.0	1085.3	1084.6	1078.2	1062.2	1047.3	1030.4	1011.4	997.9
17.5°	1109.3	1109.0	1106.3	1106.3	1104.6	1099.5	1088.0	1072.4	1049.0	1022.6	1001.9
20°	1116.8	1115.8	1114.4	1114.1	1112.4	1109.7	1107.3	1096.1	1069.0	1031.4	999.9
22.5°	1112.4	1111.4	1109.7	1110.0	1109.3	1111.4	1121.5	1115.8	1083.2	1029.7	984.6
25°	1100.9	1099.5	1099.5	1100.2	1100.5	1109.7	1134.4	1131.0	1084.3	1011.4	950.8
27.5°	1090.4	1089.3	1089.7	1092.0	1094.1	1110.3	1146.3	1132.7	1062.9	972.4	906.0
30°	1085.3	1085.6	1088.0	1091.4	1095.1	1120.9	1154.4	1117.5	1020.6	917.2	848.8
32.5°	1092.0	1095.8	1100.2	1104.9	1111.0	1142.2	1156.4	1083.9	961.6	856.9	787.1
35°	1120.9	1129.0	1134.4	1140.2	1146.6	1174.0	1154.1	1035.8	900.6	800.0	722.7
37.5°	1183.2	1189.0	1192.7	1200.8	1208.6	1216.4	1145.9	983.3	849.1	744.7	666.1
40°	1286.9	1282.8	1290.3	1289.2	1287.2	1267.6	1134.1	936.9	804.4	692.6	613.3
42.5°	1422.4	1419.0	1408.9	1400.7	1389.9	1328.9	1125.3	904.7	758.6	640.4	557.7
45°	1580.0	1557.3	1534.9	1515.2	1494.2	1397.3	1124.2	874.9	704.8	581.4	497.7
47.5°	1726.7	1696.9	1663.0	1631.1	1605.0	1470.9	1131.0	832.2	639.4	520.4	443.5
50°	1884.6	1832.1	1789.0	1745.3	1716.2	1553.5	1136.4	767.8	570.6	464.5	391.7
52.5°	2026.9	1971.3	1917.1	1874.7	1832.1	1639.6	1116.8	685.8	508.9	408.3	340.9
55°	2160.4	2097.0	2045.9	1998.4	1959.5	1733.5	1048.7	613.6	450.0	352.4	283.3
57.5°	2289.1	2223.4	2168.2	2119.4	2075.3	1807.7	922.0	553.6	387.6	286.3	221.9
60°	2430.8	2355.5	2295.9	2236.6	2188.8	1842.2	795.6	498.4	321.2	217.2	162.6
62.5°	2624.9	2539.2	2470.8	2395.5	2323.7	1833.4	722.7	436.4	250.4	159.3	121.3
65°	2909.9	2802.1	2715.0	2617.1	2518.5	1791.1	676.6	371.7	187.7	122.3	104.0
67.5°	3128.4	2996.3	2885.1	2771.6	2646.9	1709.4	651.6	323.2	150.1	105.7	94.2
69°	3086.1	2955.6	2834.3	2718.1	2577.1	1597.2	631.9	304.9	138.9	99.6	89.5
70°	2977.6	2845.2	2721.8	2605.3	2452.8	1478.7	604.5	291.7	134.9	96.2	86.1
72.5°	2479.9	2357.6	2224.8	2097.4	1938.8	1070.0	462.5	235.5	123.3	88.1	78.3
75°	1784.3	1679.2	1579.6	1441.7	1260.1	624.8	289.0	144.3	93.9	80.0	71.2
77.5°	1006.0	965.7	911.1	797.6	679.0	340.9	170.8	89.8	74.5	73.9	61.7
80°	392.7	427.6	442.5	416.1	373.4	245.7	126.4	70.5	63.0	75.6	53.2
82.5°	278.2	327.3	341.9	325.6	303.9	220.6	97.6	54.9	50.1	63.4	45.1
85°	221.9	250.4	252.1	240.9	233.8	176.9	64.7	34.2	35.6	44.7	32.5
87.5°	113.2	111.1	107.4	110.1	97.9	71.2	22.7	14.2	17.3	18.6	18.0
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-F02-LED-EU-RW-7050

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	974.5	974.5
2.5°	961.6	962.6
5°	963.3	963.6
7.5°	971.4	970.4
10°	979.9	978.5
12.5°	987.4	985.0
15°	991.8	988.7
17.5°	992.4	990.1
20°	985.0	981.6
22.5°	961.9	958.9
25°	925.7	920.9
27.5°	877.2	872.5
30°	819.3	813.2
32.5°	755.6	750.5
35°	691.9	688.5
37.5°	635.3	634.0
40°	581.1	579.4
42.5°	524.8	522.5
45°	467.2	464.5
47.5°	413.4	409.6
50°	360.9	358.5
52.5°	308.7	306.6
55°	249.4	247.0
57.5°	187.0	180.9
60°	132.5	129.1
62.5°	99.3	95.9
65°	86.1	83.0
67.5°	78.3	74.9
69°	74.2	71.5
70°	72.2	69.8
72.5°	66.4	65.1
75°	59.6	58.3
77.5°	52.2	50.1
80°	45.1	43.0
82.5°	35.6	34.2
85°	22.0	21.0
87.5°	11.9	9.8
90°	0.0	0.0

(END OF REPORT)