

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: McGRAW-EDISON

Report Number: P158756

Luminaire Tested: **VTS-F02-LED-E1-SLL-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P158756  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33715)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: VTS-F02-LED-E1-SLL-7050  
Description: VENTUS LED SITE LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT  
Light Source: (14) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

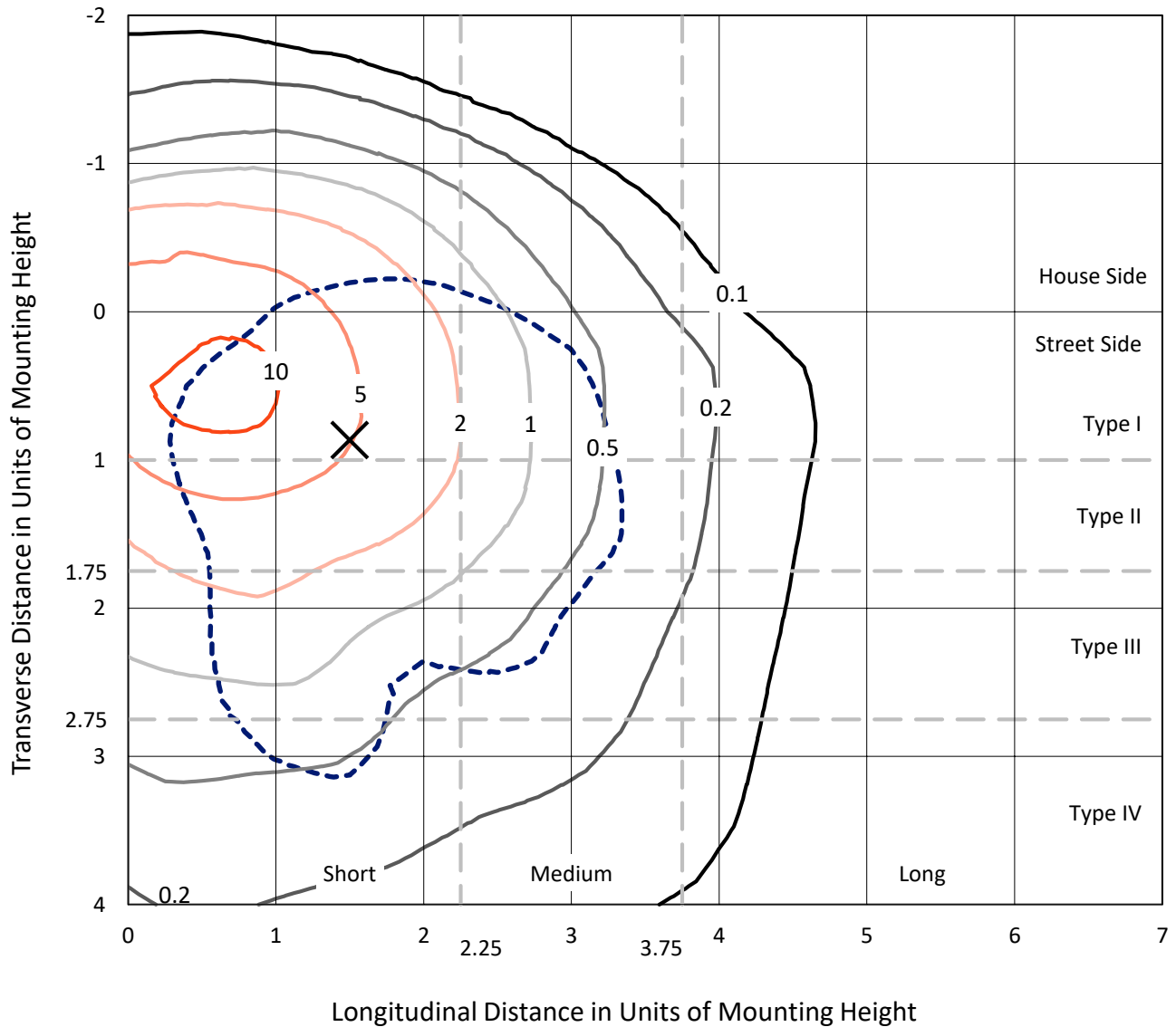
Lumens per Lamp: N/A  
Luminaire Lumens: 4552.7 lumens  
Efficiency: N/A  
Efficacy: 82.8 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

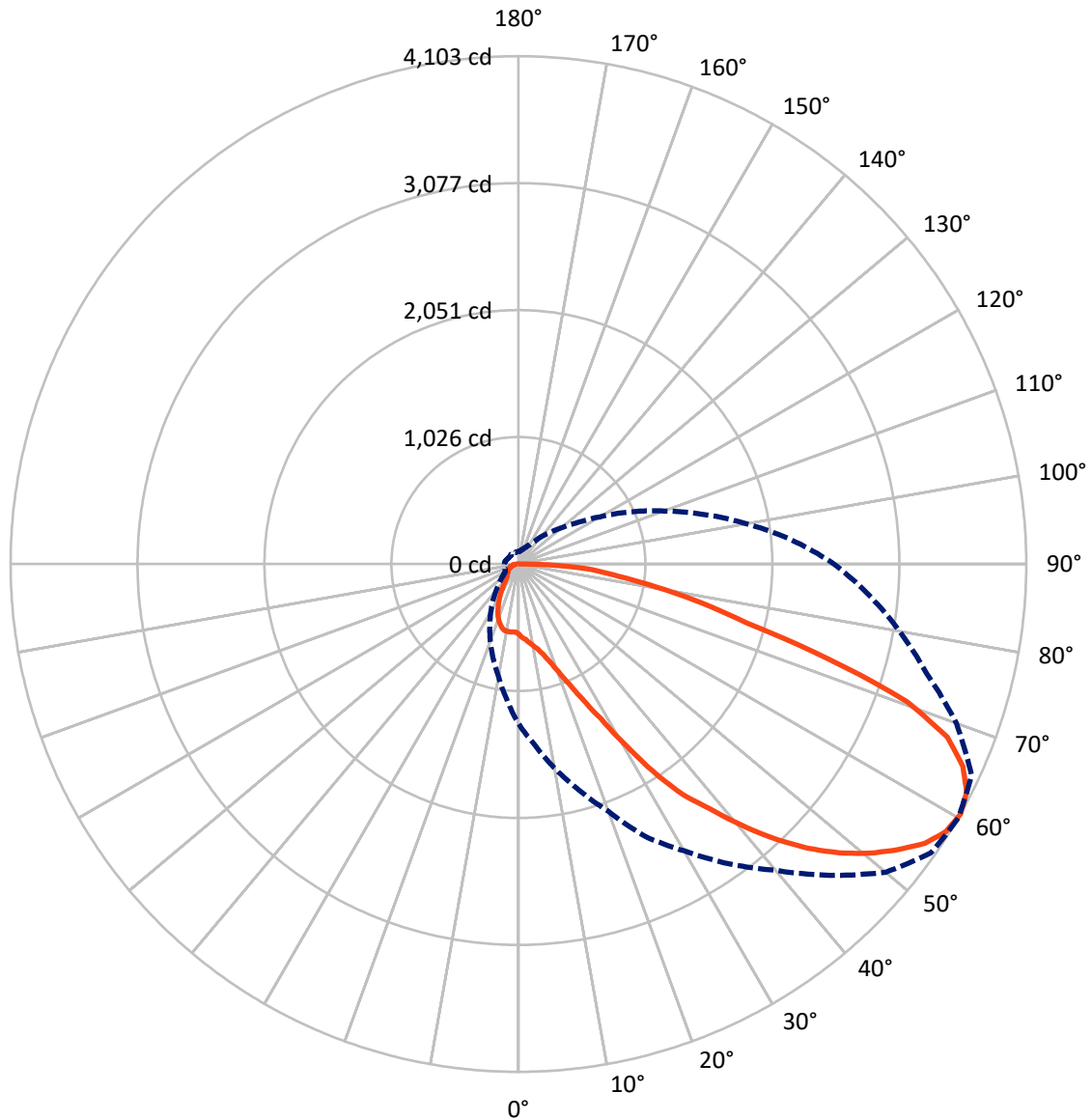
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.1 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1025.1	0.0	1025.1
	% Fixture	22.5	0.0	22.5
<b>Street Side</b>	Lumens	3527.5	0.0	3527.5
	% Fixture	77.5	0.0	77.5
<b>Total</b>	Lumens	4552.7	0.0	4552.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.9	1.2
10°-20°	180.4	4.0
20°-30°	342.2	7.5
30°-40°	539.0	11.8
40°-50°	752.3	16.5
50°-60°	930.4	20.4
60°-70°	964.4	21.2
70°-80°	606.8	13.3
80°-90°	181.4	4.0
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°	4552.7	100.0
0°-180°	4552.7	100.0



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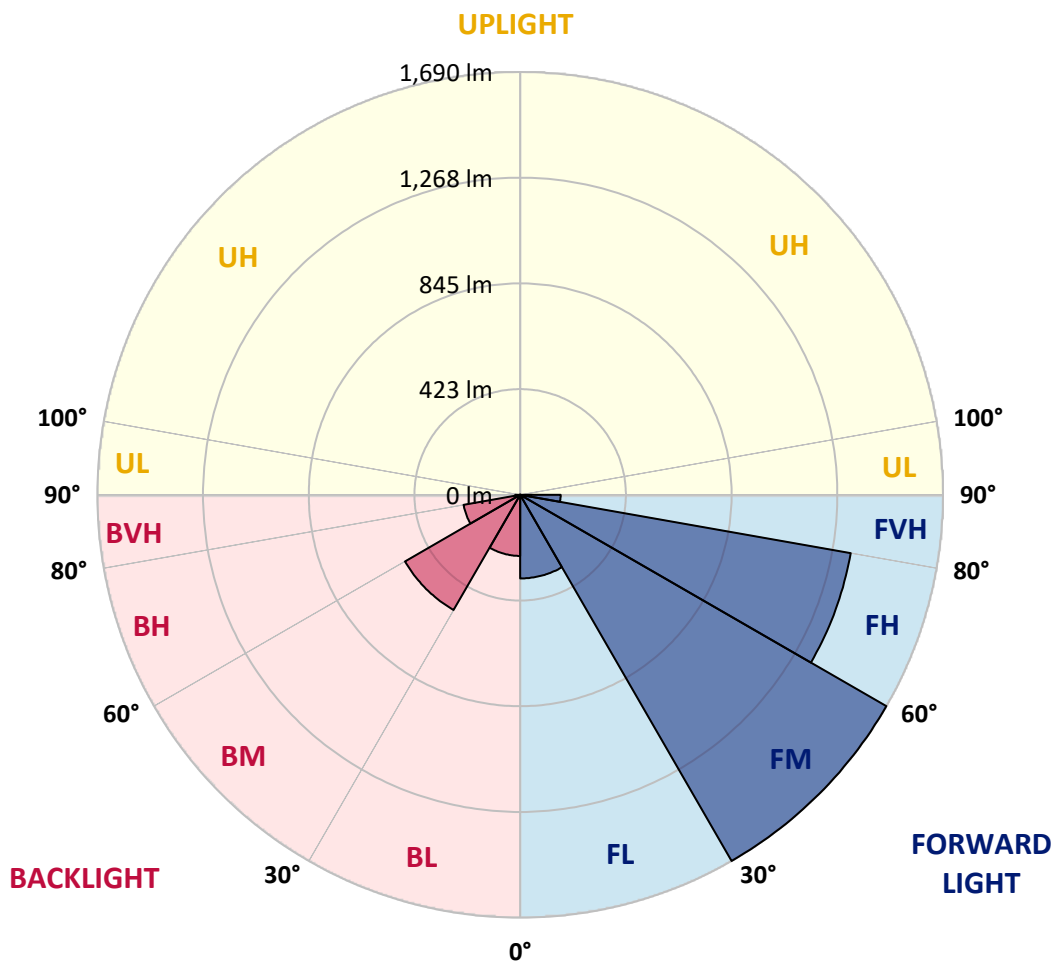
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	334.2	7.3			
FM	(30°-60°)	1690.0	37.1			
FH	(60°-80°)	1341.6	29.5			G1/1800
FVH	(80°-90°)	161.7	3.6			G2/225
BL	(0°-30°)	244.2	5.4	B1/500		
BM	(30°-60°)	531.6	11.7	B1/1000		
BH	(60°-80°)	229.6	5.0	B1/500		G1/500
BVH	(80°-90°)	19.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2
2.5°	599.7	599.1	599.1	599.1	598.7	598.0	599.1	598.7	597.0	596.0	597.0
5°	607.5	607.9	608.9	609.2	609.2	610.2	612.9	613.3	612.9	613.6	615.3
7.5°	615.0	616.7	617.7	619.4	621.4	623.1	627.9	632.6	635.6	638.0	638.7
10°	627.2	629.9	632.9	637.3	642.1	650.6	654.6	659.4	662.4	667.2	668.2
12.5°	658.3	661.7	663.8	670.5	676.6	684.8	690.5	691.9	699.0	703.1	707.8
15°	710.9	715.9	723.1	727.1	733.9	741.0	746.1	752.9	753.9	759.3	763.0
17.5°	775.2	782.4	796.9	806.8	815.6	822.7	832.8	840.6	842.3	848.4	840.6
20°	865.4	882.7	885.0	904.7	912.5	926.7	947.0	950.8	960.6	950.8	945.0
22.5°	987.4	1014.5	1021.9	1040.9	1050.4	1072.1	1078.2	1098.1	1104.9	1097.5	1081.9
25°	1127.6	1169.6	1191.3	1220.5	1225.2	1269.6	1274.3	1297.7	1285.2	1267.2	1267.6
27.5°	1231.0	1302.5	1358.4	1408.2	1443.1	1493.2	1532.2	1543.0	1531.2	1507.8	1499.7
30°	1289.9	1370.9	1451.2	1520.0	1601.3	1677.9	1757.5	1797.2	1803.9	1816.1	1767.0
32.5°	1327.9	1431.9	1527.4	1612.5	1695.8	1794.4	1901.2	2003.2	2088.9	2153.6	2123.1
35°	1359.7	1488.1	1610.5	1713.5	1812.1	1919.5	2027.2	2147.5	2289.5	2372.5	2389.8
37.5°	1372.6	1529.5	1679.2	1811.4	1950.0	2070.9	2178.0	2285.1	2434.2	2582.2	2628.0
40°	1370.2	1549.8	1720.2	1886.3	2056.0	2207.1	2332.5	2459.2	2633.7	2806.9	2881.4
42.5°	1354.3	1552.9	1746.3	1936.1	2129.5	2330.5	2490.7	2636.8	2804.2	3026.1	3131.5
45°	1334.3	1542.4	1751.8	1961.5	2184.1	2416.5	2619.2	2799.8	2995.9	3215.2	3342.6
47.5°	1307.2	1525.8	1745.0	1970.3	2208.5	2471.8	2710.0	2927.2	3143.0	3395.4	3557.0
50°	1277.7	1502.0	1731.1	1963.9	2214.6	2501.9	2761.8	3009.2	3261.2	3533.7	3738.0
52.5°	1257.1	1476.6	1718.5	1950.6	2208.5	2511.1	2780.8	3053.2	3333.8	3615.3	3859.3
55°	1231.6	1442.7	1685.0	1919.8	2186.1	2506.0	2778.7	3068.4	3353.7	3646.8	3925.3
57.5°	1233.3	1427.2	1656.5	1882.9	2140.4	2458.9	2740.5	3053.2	3322.2	3626.5	3927.7
60°	1286.9	1460.7	1671.4	1890.3	2126.8	2429.1	2675.4	2954.9	3229.7	3556.4	3872.8
62.5°	1397.3	1556.6	1748.0	1964.9	2203.1	2488.7	2645.9	2791.6	3035.6	3427.3	3779.3
65°	1529.1	1672.8	1838.8	2045.2	2312.2	2585.6	2629.3	2658.8	2782.1	3176.2	3603.8
67.5°	1660.9	1789.4	1919.8	2090.9	2374.2	2613.4	2561.6	2491.4	2557.8	2884.5	3258.9
70°	1708.4	1878.8	1964.5	2082.1	2327.1	2548.7	2452.1	2275.6	2298.6	2595.4	2869.2
72.5°	1637.2	1880.2	1908.6	1952.3	2117.4	2325.7	2223.7	1996.7	1992.0	2218.7	2439.9
75°	1373.3	1715.2	1714.8	1698.6	1735.8	1854.4	1801.6	1664.7	1722.6	1901.2	1974.0
77.5°	978.9	1338.4	1355.3	1245.9	1243.2	1296.7	1328.6	1487.8	1697.9	1798.2	1775.1
80°	615.0	903.0	975.8	840.6	811.8	887.7	1084.6	1316.4	1574.9	1665.0	1587.4
82.5°	370.3	581.8	737.0	660.4	653.6	791.8	1009.4	1099.5	1177.1	1273.0	1143.2
85°	251.4	387.6	504.2	519.4	578.7	721.7	816.2	776.3	778.3	753.2	686.1
87.5°	48.1	105.7	172.8	210.8	233.8	314.1	341.5	309.4	326.6	238.9	261.2
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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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2
2.5°	595.3	595.3	595.3	593.6	594.0	591.6	590.6	590.6	589.6	589.6	589.2
5°	614.0	611.9	612.9	612.6	612.6	609.2	607.5	607.5	603.1	603.5	602.1
7.5°	641.7	641.4	642.4	640.4	637.7	635.0	632.3	630.9	624.8	621.1	618.7
10°	673.3	672.9	673.9	673.6	668.9	663.8	656.3	650.9	643.4	637.7	631.9
12.5°	707.8	707.5	706.8	703.8	698.7	690.5	681.0	671.9	660.7	653.3	644.8
15°	761.7	760.7	756.6	752.2	746.8	734.2	717.6	704.4	689.5	676.6	662.8
17.5°	841.3	832.8	832.2	822.3	807.8	791.2	775.6	753.6	732.2	712.9	693.9
20°	951.1	931.4	926.0	914.8	895.5	878.2	844.4	814.9	785.7	759.3	735.3
22.5°	1070.7	1056.5	1043.3	1025.0	998.5	973.5	930.4	893.5	856.2	822.3	795.6
25°	1237.7	1213.0	1189.3	1160.2	1123.6	1093.7	1044.6	1007.3	958.6	927.7	889.1
27.5°	1453.6	1411.2	1371.2	1346.2	1281.8	1238.4	1175.7	1127.6	1068.7	1027.0	981.3
30°	1734.5	1685.3	1626.0	1539.3	1462.7	1376.7	1299.1	1237.4	1174.7	1116.4	1063.6
32.5°	2082.8	1996.0	1902.2	1764.6	1638.9	1516.3	1412.9	1337.0	1273.0	1200.5	1125.9
35°	2377.2	2287.8	2154.6	1979.8	1824.6	1684.3	1560.7	1457.0	1373.3	1281.5	1182.9
37.5°	2609.7	2507.7	2382.7	2197.0	2033.0	1873.4	1743.6	1611.5	1501.7	1375.3	1250.6
40°	2876.0	2773.7	2636.1	2443.6	2249.5	2076.4	1924.2	1787.7	1652.8	1498.6	1338.4
42.5°	3108.1	3034.2	2895.0	2696.1	2480.9	2288.1	2121.8	1965.6	1789.4	1616.9	1427.2
45°	3350.0	3274.8	3142.7	2934.6	2705.9	2491.1	2292.2	2124.1	1916.1	1710.8	1493.6
47.5°	3563.8	3486.6	3353.1	3146.4	2903.4	2677.1	2458.2	2254.9	2013.3	1777.5	1536.9
50°	3767.8	3673.3	3550.9	3344.9	3085.4	2843.5	2605.9	2345.0	2088.9	1824.3	1566.4
52.5°	3955.2	3834.9	3719.0	3506.9	3226.3	2973.6	2708.6	2421.6	2135.3	1861.2	1586.4
55°	4061.6	3984.0	3845.4	3637.0	3326.6	3063.0	2773.7	2475.5	2181.4	1887.3	1594.9
57.5°	4094.4	4075.5	3959.2	3712.2	3385.6	3112.2	2817.7	2518.2	2212.2	1894.7	1583.0
60°	4068.3	4102.9	4039.2	3765.1	3412.4	3126.7	2839.4	2548.7	2217.6	1871.0	1547.1
62.5°	3984.6	4063.3	4055.1	3782.7	3398.5	3108.4	2837.0	2533.1	2166.8	1797.2	1466.5
65°	3847.1	3946.0	3980.9	3717.3	3320.2	3041.7	2776.7	2435.2	2025.5	1652.8	1331.3
67.5°	3588.2	3738.0	3771.9	3503.2	3115.5	2857.0	2602.9	2231.9	1764.0	1429.5	1120.2
70°	3069.5	3331.4	3377.1	3095.2	2754.7	2527.7	2312.2	1909.6	1468.8	1146.6	859.6
72.5°	2450.4	2615.1	2708.6	2514.5	2261.0	2096.3	1933.0	1465.1	1108.3	846.1	591.6
75°	1915.7	1905.9	1989.6	1860.5	1711.4	1634.5	1511.9	1022.3	742.4	560.4	374.4
77.5°	1637.9	1511.9	1416.6	1325.8	1237.4	1213.0	1095.4	634.3	458.8	335.8	224.0
80°	1361.4	1131.4	957.5	829.8	798.3	846.4	717.0	374.1	271.7	192.8	140.6
82.5°	972.8	813.9	662.4	581.4	527.6	604.1	422.9	207.7	147.4	115.5	93.2
85°	630.6	602.8	596.3	569.9	504.5	476.4	321.2	178.9	110.5	71.8	57.9
87.5°	242.6	311.0	358.8	384.6	415.7	370.3	167.4	61.7	60.7	37.3	28.1
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2
2.5°	586.9	585.5	585.2	584.1	583.5	583.5	581.8	550.9	550.6	550.6	550.3
5°	599.4	597.7	596.0	595.7	594.3	594.3	592.6	561.8	561.8	561.8	561.1
7.5°	616.3	612.9	610.9	609.9	607.9	608.9	610.2	579.1	579.4	579.1	579.7
10°	628.5	626.5	624.1	623.4	622.1	623.1	625.1	594.3	595.3	595.7	596.3
12.5°	640.4	637.0	634.0	632.9	632.3	635.0	637.3	607.5	608.5	609.6	609.6
15°	655.0	649.2	645.1	642.8	641.4	644.1	647.5	618.0	618.4	619.4	619.0
17.5°	679.7	671.2	661.7	660.0	655.6	656.7	657.3	624.5	623.1	620.7	616.7
20°	718.0	705.1	692.2	686.8	678.0	674.3	666.8	624.8	616.3	609.2	603.1
22.5°	772.9	753.9	740.0	730.9	712.9	700.4	680.0	623.1	607.2	595.0	585.5
25°	861.6	838.9	817.6	794.6	766.4	741.4	711.5	638.0	613.3	592.3	574.0
27.5°	948.0	912.1	879.3	844.7	805.1	767.5	725.4	642.8	614.6	587.5	557.7
30°	1012.8	960.6	910.8	860.3	808.4	759.7	712.2	626.5	593.0	562.5	530.9
32.5°	1052.1	984.3	919.6	856.9	795.9	741.0	687.8	598.4	561.4	525.5	492.0
35°	1089.3	1005.3	925.0	851.1	781.3	720.4	663.1	565.5	521.5	483.2	440.8
37.5°	1135.4	1027.3	928.4	840.6	760.0	690.2	627.2	524.2	480.1	433.0	393.0
40°	1190.6	1050.0	925.0	819.6	726.8	650.6	583.8	480.8	431.7	385.9	346.6
42.5°	1243.2	1070.0	916.2	791.5	690.5	609.2	544.2	442.2	393.0	346.3	307.3
45°	1282.1	1087.0	911.8	771.9	662.8	581.1	509.3	411.0	359.2	312.1	272.4
47.5°	1309.2	1097.1	909.8	761.0	643.4	552.0	477.4	379.8	325.3	277.8	239.2
50°	1323.5	1096.8	904.7	749.2	615.0	517.1	444.5	348.3	294.1	247.7	212.4
52.5°	1327.2	1090.7	893.8	727.5	580.4	482.2	409.3	315.5	266.7	222.3	186.7
55°	1318.7	1075.8	871.1	691.2	543.5	445.2	377.1	289.7	239.9	197.9	170.1
57.5°	1294.7	1049.4	828.4	641.4	504.5	411.0	340.2	258.5	210.8	175.5	152.5
60°	1249.9	993.5	761.7	582.4	455.0	358.8	289.4	217.9	179.9	153.5	134.9
62.5°	1167.3	905.7	667.8	501.1	383.9	291.1	231.1	173.8	145.4	128.1	116.6
65°	1034.1	773.5	559.1	394.7	291.7	211.8	171.8	130.8	110.1	99.6	96.2
67.5°	844.0	597.4	406.6	274.1	197.5	148.4	119.6	95.6	85.7	81.7	80.3
70°	613.6	406.9	263.3	173.1	130.4	103.7	90.5	76.9	71.5	70.5	70.5
72.5°	385.2	247.3	161.3	118.6	98.9	84.0	77.3	67.8	65.7	65.1	64.0
75°	226.0	150.1	114.2	97.2	84.7	75.2	69.5	61.7	60.3	60.0	59.0
77.5°	144.0	108.1	92.2	83.0	76.6	68.1	63.0	54.9	54.6	54.2	53.9
80°	103.3	89.8	80.6	73.5	67.1	59.3	56.2	49.8	49.1	48.8	49.5
82.5°	78.3	74.2	70.5	65.1	56.2	50.5	48.1	43.7	44.0	42.4	42.0
85°	53.9	53.2	52.9	50.5	44.0	39.0	37.3	34.9	36.6	34.9	32.9
87.5°	26.4	26.1	24.1	28.5	26.4	21.0	19.0	21.0	23.4	22.7	21.0
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: VTS-F02-LED-E1-SLL-7050

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2
2.5°	548.9	547.5	548.6	547.9	547.9	547.5	548.2	547.2	546.5	547.2	547.5
5°	559.7	558.1	558.4	556.0	557.0	554.7	555.3	553.6	552.0	551.3	551.3
7.5°	578.0	576.4	574.3	574.0	570.3	568.9	566.5	565.2	564.2	561.8	560.4
10°	594.6	591.9	589.6	589.2	585.5	582.1	579.1	576.4	574.7	571.3	569.6
12.5°	608.2	605.5	601.8	599.7	596.0	591.9	589.9	585.8	583.5	579.7	576.7
15°	616.0	611.2	605.8	602.1	596.7	592.3	589.2	586.2	583.8	579.1	574.7
17.5°	612.3	604.5	597.0	590.2	582.8	578.7	574.3	570.6	569.9	564.5	557.7
20°	596.7	587.5	577.7	568.6	558.7	553.0	547.5	541.8	540.1	533.7	524.8
22.5°	577.7	567.2	556.0	544.8	532.3	524.2	516.0	508.9	503.2	493.7	481.1
25°	558.4	542.8	526.5	512.3	497.7	487.6	479.1	471.3	464.5	449.3	436.4
27.5°	533.0	508.6	492.0	475.7	458.1	444.9	435.4	424.6	417.1	399.5	385.9
30°	500.5	476.1	452.3	436.1	418.5	404.2	392.0	376.4	365.6	352.7	340.2
32.5°	459.5	435.1	411.0	392.7	378.1	360.5	345.3	330.4	317.8	305.3	295.5
35°	409.6	385.9	363.2	344.9	328.7	314.8	300.2	287.3	273.1	259.5	253.8
37.5°	357.1	331.7	306.6	290.7	277.8	268.0	254.5	244.0	231.1	223.0	216.2
40°	311.4	284.3	260.6	247.0	236.8	225.7	214.5	206.3	197.2	189.1	184.0
42.5°	272.8	247.3	227.0	215.5	203.3	191.1	182.6	175.9	170.1	164.0	157.9
45°	237.2	212.8	195.8	181.6	171.4	161.6	155.9	152.8	149.4	145.7	141.6
47.5°	207.4	186.4	169.8	156.5	146.0	139.3	136.5	135.5	134.2	131.1	129.1
50°	184.7	167.4	150.4	138.6	129.8	126.4	123.3	122.3	120.6	119.6	118.3
52.5°	165.7	147.4	133.2	122.3	116.9	115.5	114.2	112.8	112.5	111.8	111.1
55°	150.1	134.2	121.0	112.8	110.1	109.1	108.8	107.4	107.1	107.1	106.1
57.5°	136.2	122.7	110.8	105.7	104.0	103.0	102.3	101.6	101.6	102.3	102.0
60°	122.0	110.5	103.3	100.6	99.6	97.9	96.2	95.6	95.9	97.6	97.6
62.5°	108.1	99.6	95.2	94.2	93.2	91.8	89.8	89.1	89.8	91.8	92.8
65°	92.8	89.1	87.8	87.1	86.4	85.4	84.0	83.4	83.7	84.7	86.1
67.5°	78.9	78.6	78.6	78.9	78.6	78.3	77.6	76.6	76.2	76.2	76.9
70°	70.5	70.5	71.5	71.5	71.2	71.2	70.1	69.1	68.4	67.8	68.1
72.5°	64.0	64.0	64.4	64.7	64.4	64.4	63.0	62.3	60.7	60.3	59.6
75°	58.6	57.9	57.9	57.6	57.3	57.6	56.2	54.6	53.9	53.5	52.9
77.5°	53.2	51.8	51.2	50.5	50.8	50.5	49.5	48.5	47.4	47.1	46.8
80°	47.1	45.1	44.0	42.4	43.4	43.7	43.0	42.0	41.7	41.3	41.0
82.5°	39.0	36.9	35.6	34.6	33.9	34.6	35.6	37.9	37.3	36.9	36.3
85°	30.5	27.1	25.4	25.8	24.1	24.4	27.4	28.8	28.8	29.5	28.8
87.5°	17.3	16.6	12.5	11.5	12.2	14.6	16.3	18.0	18.0	16.9	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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CATALOG NUMBER: VTS-F02-LED-E1-SLL-7050

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2
2.5°	547.5	548.2	548.6	549.9	550.6	550.9	551.3	552.0	552.3	552.0	553.6
5°	550.3	550.3	549.6	550.6	550.9	550.9	550.3	550.9	550.9	550.9	552.6
7.5°	557.4	555.3	554.3	553.0	552.0	550.6	548.9	548.9	548.6	548.9	549.9
10°	564.8	561.8	558.1	554.7	551.6	549.2	546.2	545.2	544.8	544.5	547.2
12.5°	570.6	565.2	559.4	553.6	547.5	543.5	538.4	535.4	535.0	535.0	538.4
15°	566.5	557.7	546.5	536.4	530.9	525.2	519.4	515.7	515.4	516.0	518.1
17.5°	546.2	532.0	522.1	512.3	505.2	500.5	496.7	496.0	497.4	496.0	498.8
20°	511.6	496.4	489.6	481.8	479.1	475.7	470.3	465.6	465.6	459.5	461.1
22.5°	466.9	458.4	449.6	443.5	441.5	435.7	430.0	423.5	422.9	415.4	414.4
25°	420.1	411.7	404.6	403.2	397.1	389.3	383.9	376.4	374.7	367.3	366.3
27.5°	372.4	365.6	358.5	354.4	351.0	342.6	337.8	329.0	325.6	317.5	316.5
30°	327.0	322.2	313.8	310.4	303.9	294.1	283.9	278.5	275.8	267.3	264.6
32.5°	284.3	276.8	270.4	266.3	258.2	247.0	237.9	230.1	225.0	214.8	212.1
35°	243.6	236.2	233.1	222.6	215.5	208.0	195.5	190.8	181.6	173.8	171.1
37.5°	207.7	200.6	196.5	187.7	180.6	173.1	165.7	159.6	155.2	153.5	153.5
40°	176.9	173.1	168.1	161.6	156.9	151.5	147.4	145.4	145.0	145.7	147.4
42.5°	154.8	150.8	147.4	144.0	140.6	139.9	138.9	140.3	142.0	143.7	145.4
45°	138.2	134.9	132.8	131.5	131.1	132.1	134.2	136.2	139.3	141.3	142.6
47.5°	126.4	123.7	123.0	122.7	124.4	127.4	130.1	133.2	135.5	137.6	138.9
50°	116.2	113.8	113.5	113.2	115.5	118.3	120.6	124.7	126.4	127.7	128.8
52.5°	109.1	107.1	106.1	106.4	108.8	111.1	114.5	117.6	119.9	121.0	122.0
55°	103.3	102.7	100.3	101.3	103.7	106.7	110.1	113.5	115.9	117.6	119.3
57.5°	98.9	97.2	95.6	97.2	99.6	102.7	106.7	109.8	112.8	115.2	116.9
60°	94.2	92.8	91.5	93.2	95.6	98.6	101.6	105.7	109.4	111.8	113.5
62.5°	90.1	89.1	87.8	88.1	89.1	91.1	92.8	96.6	100.0	103.0	105.0
65°	84.4	84.0	82.0	82.3	83.0	85.0	86.4	89.8	93.2	95.9	97.6
67.5°	75.9	75.2	75.2	76.2	76.6	77.6	78.6	82.0	84.7	86.7	88.8
70°	67.4	67.1	67.1	67.8	67.4	68.4	69.8	72.8	76.2	78.3	80.3
72.5°	59.3	59.3	59.0	59.6	59.6	60.0	61.7	64.4	67.4	69.1	70.5
75°	52.2	51.8	51.8	51.8	52.2	52.2	53.9	56.2	59.3	60.3	62.3
77.5°	45.7	45.7	45.7	45.7	46.1	45.7	46.8	48.5	49.5	51.2	51.2
80°	40.3	40.0	40.3	40.7	40.7	40.3	40.3	40.7	41.0	41.0	41.0
82.5°	35.6	34.6	35.2	36.9	36.9	36.9	36.6	34.2	32.5	32.5	33.2
85°	28.5	28.5	28.8	31.2	31.5	30.2	31.5	28.1	24.7	23.7	24.4
87.5°	17.6	13.9	16.9	19.3	19.3	18.3	20.3	19.0	15.9	12.9	12.2
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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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	566.2	0°
2.5°	555.0	555.3	557.4	558.4	558.4	559.7	560.4	562.5	562.1	562.1	562.8	2.5°
5°	554.3	555.3	557.4	558.7	559.4	561.1	562.5	564.8	564.5	565.2	565.5	5°
7.5°	552.0	554.7	556.7	559.4	561.8	563.1	564.8	566.9	566.2	566.5	566.2	7.5°
10°	549.9	552.6	556.7	560.4	563.8	565.8	566.9	569.2	568.9	569.6	569.6	10°
12.5°	541.8	546.5	551.6	557.4	562.5	567.9	571.3	576.4	578.7	581.8	585.2	12.5°
15°	521.1	526.5	534.7	541.1	550.9	558.4	568.2	578.0	586.9	595.3	605.2	15°
17.5°	500.8	503.2	509.6	518.4	527.2	538.4	550.3	567.9	583.8	601.1	620.1	17.5°
20°	463.2	467.2	471.7	482.2	492.7	508.6	523.2	546.2	569.6	596.7	625.8	20°
22.5°	416.8	420.8	425.6	437.4	450.3	466.6	484.2	509.9	541.1	576.4	615.3	22.5°
25°	366.6	369.0	372.7	384.6	392.4	413.7	435.1	461.8	495.7	541.1	586.5	25°
27.5°	311.4	315.8	318.8	324.3	342.2	360.5	382.9	411.7	452.7	499.1	554.0	27.5°
30°	258.5	262.3	260.6	272.1	283.9	303.3	327.3	359.2	398.5	453.7	517.1	30°
32.5°	206.7	209.4	208.4	216.5	228.4	247.7	270.4	304.9	346.6	405.6	474.4	32.5°
35°	170.4	171.1	174.8	178.6	188.7	204.3	223.6	253.8	296.5	350.7	423.5	35°
37.5°	153.5	154.8	157.2	162.3	169.8	180.9	196.9	220.2	256.8	304.6	369.7	37.5°
40°	148.4	149.4	150.8	154.2	161.3	171.1	185.3	205.0	231.8	272.1	324.9	40°
42.5°	146.0	146.0	146.0	148.1	153.5	164.0	180.3	199.6	223.0	253.4	296.1	42.5°
45°	142.6	142.6	142.3	143.3	147.1	157.6	175.2	196.9	221.9	251.1	288.0	45°
47.5°	138.9	138.6	137.6	137.6	139.9	150.4	168.7	192.1	219.6	253.1	292.7	47.5°
50°	128.8	128.8	128.8	129.8	131.8	141.3	160.9	185.7	217.2	254.5	300.2	50°
52.5°	123.0	123.3	124.4	124.4	126.4	136.2	156.9	184.3	218.5	259.5	309.7	52.5°
55°	120.3	121.3	122.3	122.3	124.0	134.2	155.5	185.3	223.6	270.0	326.0	55°
57.5°	117.9	118.9	119.6	119.6	121.0	129.8	151.8	183.6	226.7	280.2	345.9	57.5°
60°	113.5	114.2	114.5	114.5	114.9	122.3	143.3	175.5	219.9	279.5	356.8	60°
62.5°	105.4	106.7	107.1	107.4	107.4	114.5	132.5	162.3	205.3	269.4	353.7	62.5°
65°	99.3	100.0	101.0	101.6	103.0	107.7	122.0	146.4	186.4	249.0	336.8	65°
67.5°	89.8	90.8	91.8	93.2	94.5	97.6	108.8	128.4	160.6	214.5	298.8	67.5°
70°	81.3	81.7	82.7	84.4	84.7	86.4	94.5	108.1	131.5	172.1	240.6	70°
72.5°	70.8	71.5	72.8	74.9	74.9	76.2	81.0	88.1	103.0	131.5	177.5	72.5°
75°	61.7	62.3	63.4	63.4	61.7	62.0	65.4	70.5	81.7	98.9	129.4	75°
77.5°	51.2	52.5	53.5	51.5	50.8	51.8	53.5	57.3	65.4	78.6	97.2	77.5°
80°	42.4	43.0	43.4	43.7	43.0	44.0	45.4	47.8	53.2	63.4	76.9	80°
82.5°	33.9	34.6	35.6	36.9	36.9	40.7	41.0	41.0	44.0	50.5	60.3	82.5°
85°	25.1	26.4	27.8	29.5	29.8	31.9	30.8	30.5	31.5	37.6	41.7	85°
87.5°	12.9	13.9	14.6	15.9	14.2	14.9	14.9	13.9	12.2	15.2	16.9	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



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**DISTRIBUTION (continued):**

330°	335°	340°	345°	350°	355°	360°
566.2	566.2	566.2	566.2	566.2	566.2	566.2
563.5	562.8	563.5	563.5	564.5	563.8	599.7
566.2	565.5	566.2	566.9	567.9	567.9	607.5
566.5	566.5	565.8	567.5	568.9	570.3	615.0
570.6	570.6	571.3	571.6	574.7	578.0	627.2
587.2	588.9	591.9	593.0	598.4	602.1	658.3
612.6	622.1	628.2	630.2	635.0	642.1	710.9
638.4	654.3	670.9	681.0	687.1	695.6	775.2
657.7	687.5	715.9	741.4	755.9	772.5	865.4
659.4	706.8	754.9	802.0	841.0	871.8	987.4
643.1	705.4	771.9	844.0	911.1	966.7	1127.6
622.4	699.0	783.7	875.9	964.0	1046.0	1231.0
596.3	688.2	785.7	889.4	992.8	1091.4	1289.9
556.7	656.0	761.4	875.9	995.8	1115.8	1327.9
505.9	607.2	715.3	845.7	981.6	1125.6	1359.7
454.0	554.0	670.2	805.4	958.9	1123.9	1372.6
399.1	498.4	617.3	762.4	928.1	1108.3	1370.2
361.9	452.3	568.9	718.7	893.8	1087.6	1354.3
340.2	419.5	530.6	678.7	862.7	1062.9	1334.3
339.8	409.6	510.3	650.2	831.2	1035.5	1307.2
351.7	415.7	507.9	638.0	813.9	1015.5	1277.7
365.6	432.7	520.4	642.4	813.5	1006.7	1257.1
387.6	461.5	547.9	661.4	822.3	1005.3	1231.6
415.7	500.5	597.4	708.2	856.6	1032.1	1233.3
444.5	546.2	662.1	788.1	924.0	1094.4	1286.9
455.0	581.4	727.8	882.0	1025.0	1187.9	1397.3
445.9	589.6	767.8	954.8	1123.2	1297.4	1529.1
412.0	556.7	751.5	975.5	1179.8	1375.0	1660.9
339.2	475.0	677.7	929.1	1175.4	1390.9	1708.4
248.7	368.3	550.9	789.5	1045.0	1291.3	1637.2
179.6	260.6	397.8	594.6	826.1	1039.9	1373.3
128.8	180.6	258.2	390.7	562.8	724.1	978.9
92.5	122.7	160.9	234.5	342.9	444.5	615.0
68.1	84.0	105.7	145.7	201.9	258.9	370.3
46.4	49.5	63.7	86.1	132.5	190.4	251.4
17.6	20.0	23.4	35.2	59.3	68.1	48.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)