

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: P158763

Luminaire Tested: **VTS-F03-LED-E1-SLL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158763
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-F03-LED-E1-SLL-8030
Description: VENTUS LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

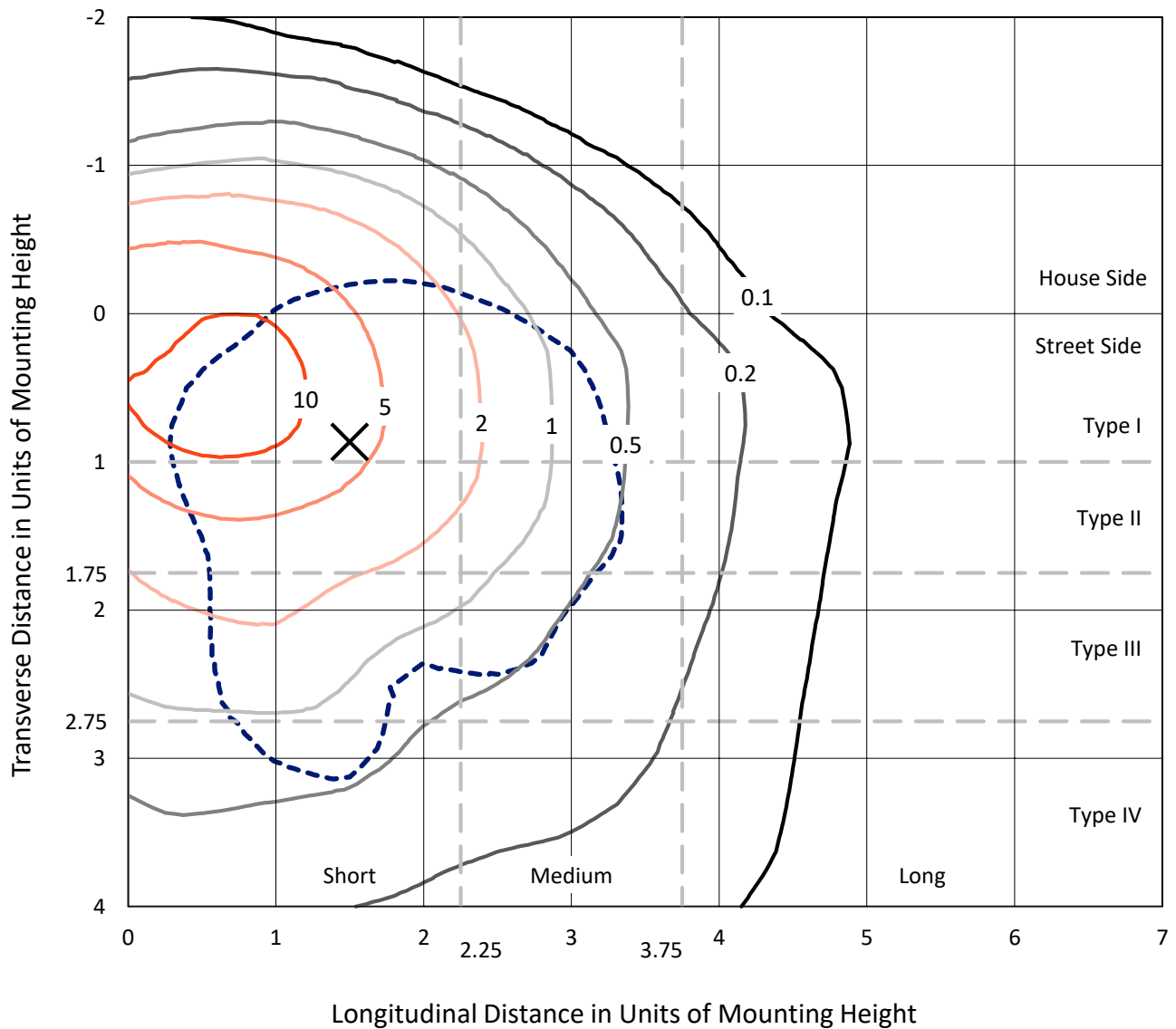
Lumens per Lamp: N/A
Luminaire Lumens: 5617 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 78.3
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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

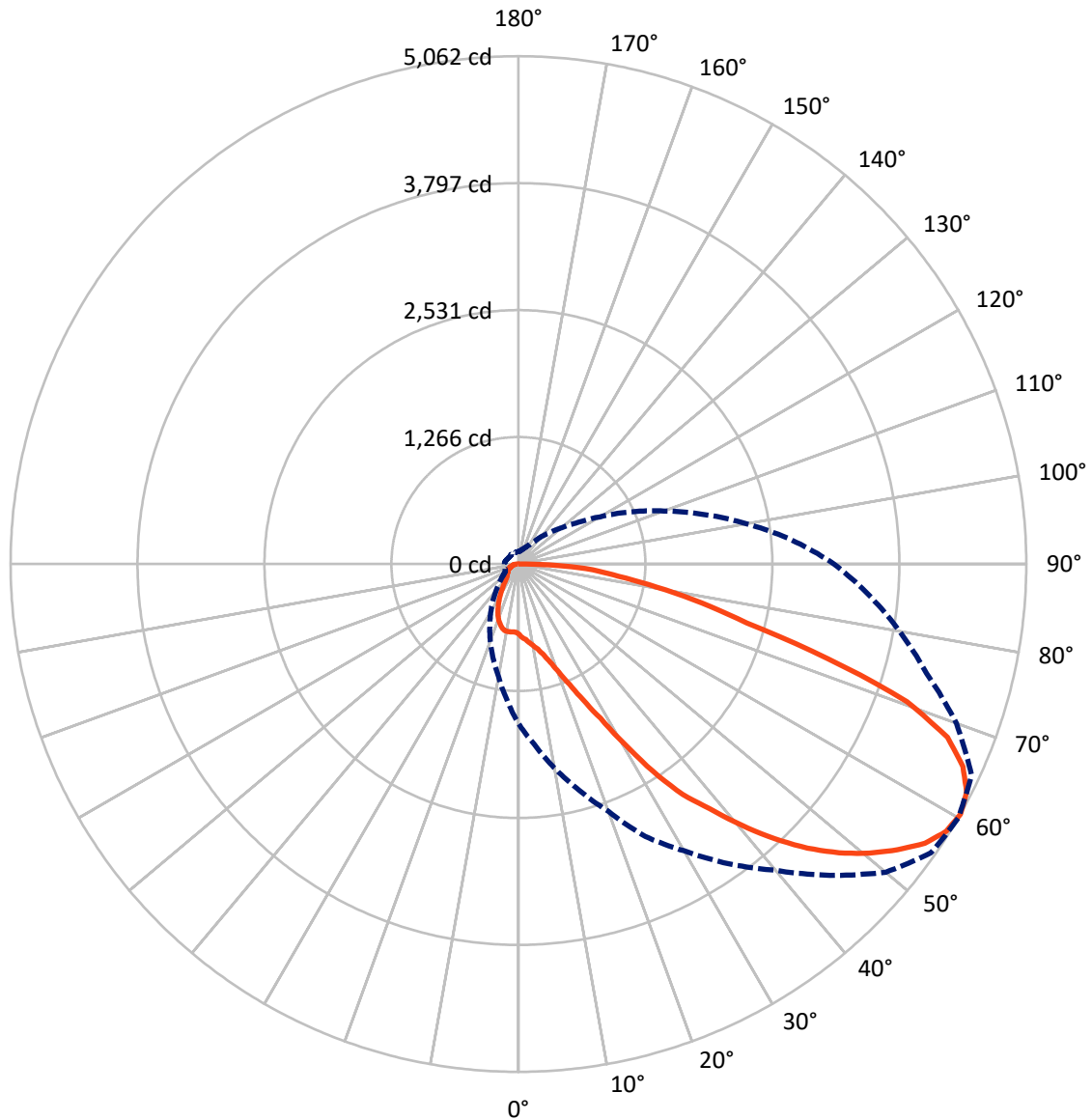
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.1 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
House Side	Lumens	1264.8	0.0	1264.8
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	4352.2	0.0	4352.2
	% Fixture	77.5	0.0	77.5
Total	Lumens	5617.0	0.0	5617.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	1.2
10°-20°	222.5	4.0
20°-30°	422.2	7.5
30°-40°	665.0	11.8
40°-50°	928.1	16.5
50°-60°	1147.9	20.4
60°-70°	1189.8	21.2
70°-80°	748.7	13.3
80°-90°	223.8	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°	5617.0	100.0
0°-180°	5617.0	100.0



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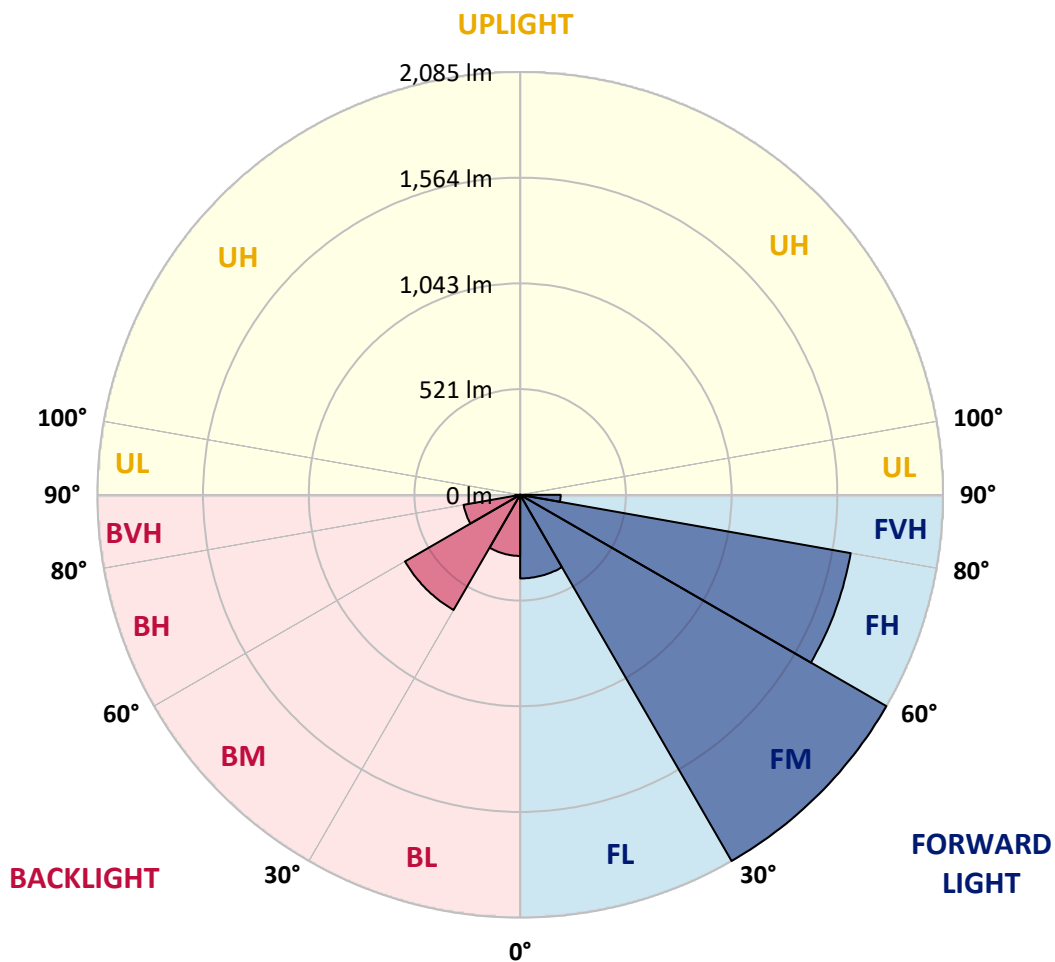
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	412.4	7.3			
FM	(30°-60°)	2085.1	37.1			
FH	(60°-80°)	1655.3	29.5			G1/1800
FVH	(80°-90°)	199.5	3.6			G2/225
BL	(0°-30°)	301.3	5.4	B1/500		
BM	(30°-60°)	655.9	11.7	B1/1000		
BH	(60°-80°)	283.3	5.0	B1/500		G1/500
BVH	(80°-90°)	24.3	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°	698.5	698.5	698.5	698.5	698.5	698.5	698.5	698.5	698.5	698.5	698.5
2.5°	739.9	739.1	739.1	739.1	738.7	737.8	739.1	738.7	736.6	735.3	736.6
5°	749.5	750.0	751.2	751.6	751.6	752.9	756.2	756.7	756.2	757.1	759.2
7.5°	758.7	760.8	762.1	764.2	766.7	768.8	774.6	780.5	784.2	787.2	788.0
10°	773.8	777.1	780.9	786.3	792.2	802.6	807.7	813.5	817.3	823.1	824.4
12.5°	812.3	816.4	818.9	827.3	834.8	844.9	852.0	853.6	862.4	867.4	873.3
15°	877.1	883.3	892.1	897.1	905.5	914.3	920.5	928.9	930.1	936.8	941.4
17.5°	956.5	965.3	983.2	995.4	1006.2	1015.0	1027.5	1037.2	1039.3	1046.8	1037.2
20°	1067.7	1089.0	1091.9	1116.2	1125.8	1143.3	1168.4	1173.0	1185.1	1173.0	1165.9
22.5°	1218.2	1251.6	1260.8	1284.2	1295.9	1322.7	1330.2	1354.9	1363.2	1354.0	1334.8
25°	1391.2	1443.1	1469.8	1505.8	1511.6	1566.4	1572.3	1601.1	1585.6	1563.5	1563.9
27.5°	1518.7	1607.0	1675.9	1737.4	1780.4	1842.3	1890.4	1903.8	1889.1	1860.3	1850.3
30°	1591.5	1691.4	1790.5	1875.3	1975.7	2070.1	2168.4	2217.3	2225.7	2240.7	2180.1
32.5°	1638.3	1766.6	1884.5	1989.5	2092.3	2213.9	2345.6	2471.5	2577.2	2657.1	2619.4
35°	1677.6	1836.0	1987.0	2114.0	2235.7	2368.2	2501.1	2649.5	2824.7	2927.1	2948.4
37.5°	1693.5	1887.0	2071.8	2234.8	2405.8	2555.1	2687.2	2819.3	3003.2	3185.9	3242.3
40°	1690.6	1912.1	2122.4	2327.2	2536.7	2723.1	2877.8	3034.1	3249.4	3463.1	3555.0
42.5°	1670.9	1915.9	2154.6	2388.7	2627.4	2875.3	3073.0	3253.2	3459.7	3733.5	3863.5
45°	1646.2	1902.9	2161.3	2420.0	2694.7	2981.5	3231.5	3454.3	3696.3	3966.8	4124.0
47.5°	1612.8	1882.4	2152.9	2430.9	2724.8	3049.6	3343.5	3611.5	3877.8	4189.2	4388.6
50°	1576.4	1853.2	2135.8	2423.0	2732.3	3086.8	3407.5	3712.6	4023.6	4359.8	4611.8
52.5°	1550.9	1821.8	2120.3	2406.7	2724.8	3098.1	3430.9	3767.0	4113.1	4460.5	4761.5
55°	1519.6	1780.0	2078.9	2368.6	2697.2	3091.8	3428.4	3785.8	4137.8	4499.4	4843.0
57.5°	1521.7	1760.8	2043.8	2323.1	2640.8	3033.7	3381.1	3767.0	4098.9	4474.3	4845.9
60°	1587.7	1802.2	2062.2	2332.3	2624.0	2996.9	3300.9	3645.7	3984.8	4387.8	4778.2
62.5°	1724.0	1920.5	2156.7	2424.2	2718.1	3070.5	3264.5	3444.2	3745.2	4228.5	4662.8
65°	1886.6	2063.9	2268.7	2523.3	2852.7	3190.1	3244.0	3280.4	3432.5	3918.7	4446.3
67.5°	2049.2	2207.7	2368.6	2579.7	2929.2	3224.4	3160.4	3073.9	3155.8	3558.8	4020.7
70°	2107.8	2318.0	2423.8	2568.9	2871.1	3144.5	3025.4	2807.6	2836.0	3202.2	3540.0
72.5°	2020.0	2319.7	2354.8	2408.8	2612.3	2869.4	2743.6	2463.5	2457.7	2737.3	3010.3
75°	1694.3	2116.1	2115.7	2095.6	2141.6	2287.9	2222.7	2053.8	2125.3	2345.6	2435.5
77.5°	1207.7	1651.3	1672.2	1537.1	1533.8	1599.8	1639.1	1835.6	2094.8	2218.5	2190.1
80°	758.7	1114.1	1204.0	1037.2	1001.6	1095.3	1338.2	1624.1	1943.1	2054.3	1958.5
82.5°	456.9	717.8	909.2	814.8	806.4	977.0	1245.3	1356.5	1452.3	1570.6	1410.5
85°	310.2	478.2	622.0	640.9	714.0	890.4	1007.1	957.7	960.2	929.3	846.5
87.5°	59.4	130.4	213.2	260.0	288.4	387.5	421.4	381.7	403.0	294.7	322.3
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°	698.5	698.5	698.5	698.5	698.5	698.5	698.5	698.5	698.5	698.5	698.5
2.5°	734.5	734.5	734.5	732.4	732.8	729.9	728.6	728.6	727.4	727.4	727.0
5°	757.5	755.0	756.2	755.8	755.8	751.6	749.5	749.5	744.1	744.5	742.9
7.5°	791.8	791.4	792.6	790.1	786.8	783.4	780.1	778.4	770.9	766.3	763.3
10°	830.6	830.2	831.5	831.1	825.2	818.9	809.7	803.1	793.9	786.8	779.6
12.5°	873.3	872.9	872.0	868.3	862.0	852.0	840.3	829.0	815.2	806.0	795.5
15°	939.8	938.5	933.5	928.1	921.4	905.9	885.4	869.1	850.7	834.8	817.7
17.5°	1038.0	1027.5	1026.7	1014.6	996.6	976.1	956.9	929.7	903.4	879.6	856.1
20°	1173.4	1149.2	1142.5	1128.7	1104.9	1083.6	1041.8	1005.4	969.4	936.8	907.1
22.5°	1321.0	1303.5	1287.1	1264.6	1232.0	1201.0	1147.9	1102.4	1056.4	1014.6	981.6
25°	1527.1	1496.6	1467.3	1431.4	1386.2	1349.4	1288.8	1242.8	1182.6	1144.6	1096.9
27.5°	1793.4	1741.1	1691.8	1660.9	1581.5	1527.9	1450.6	1391.2	1318.5	1267.1	1210.6
30°	2140.0	2079.3	2006.2	1899.2	1804.7	1698.5	1602.8	1526.7	1449.3	1377.4	1312.2
32.5°	2569.7	2462.7	2346.9	2177.2	2022.1	1870.7	1743.2	1649.6	1570.6	1481.1	1389.2
35°	2933.0	2822.6	2658.3	2442.6	2251.2	2078.1	1925.5	1797.6	1694.3	1581.0	1459.4
37.5°	3219.8	3093.9	2939.7	2710.6	2508.2	2311.4	2151.2	1988.2	1852.8	1696.8	1543.0
40°	3548.3	3422.1	3252.4	3014.9	2775.4	2561.8	2374.1	2205.6	2039.2	1849.0	1651.3
42.5°	3834.7	3743.6	3571.7	3326.4	3060.9	2823.0	2617.8	2425.1	2207.7	1994.9	1760.8
45°	4133.2	4040.4	3877.3	3620.7	3338.5	3073.4	2828.0	2620.7	2364.0	2110.7	1842.7
47.5°	4397.0	4301.6	4136.9	3881.9	3582.2	3302.9	3032.9	2782.1	2484.0	2193.0	1896.2
50°	4648.6	4532.0	4381.1	4126.9	3806.7	3508.2	3215.2	2893.3	2577.2	2250.7	1932.6
52.5°	4879.8	4731.4	4588.4	4326.7	3980.6	3668.7	3341.8	2987.7	2634.5	2296.3	1957.3
55°	5011.1	4915.3	4744.4	4487.3	4104.3	3779.1	3422.1	3054.2	2691.4	2328.5	1967.7
57.5°	5051.6	5028.2	4884.8	4580.1	4177.1	3839.7	3476.4	3106.9	2729.4	2337.7	1953.1
60°	5019.4	5062.1	4983.5	4645.3	4210.1	3857.7	3503.2	3144.5	2736.1	2308.4	1908.8
62.5°	4916.2	5013.2	5003.1	4667.0	4193.0	3835.1	3500.3	3125.3	2673.4	2217.3	1809.3
65°	4746.4	4868.5	4911.6	4586.3	4096.4	3752.8	3425.8	3004.5	2499.1	2039.2	1642.5
67.5°	4427.1	4611.8	4653.6	4322.1	3843.9	3524.9	3211.4	2753.6	2176.3	1763.7	1382.0
70°	3787.0	4110.2	4166.6	3818.8	3398.7	3118.6	2852.7	2356.1	1812.2	1414.7	1060.6
72.5°	3023.3	3226.4	3341.8	3102.3	2789.6	2586.4	2384.9	1807.6	1367.4	1043.8	729.9
75°	2363.6	2351.5	2454.7	2295.5	2111.5	2016.6	1865.3	1261.2	915.9	691.4	461.9
77.5°	2020.8	1865.3	1747.8	1635.8	1526.7	1496.6	1351.5	782.6	566.0	414.3	276.3
80°	1679.7	1395.8	1181.4	1023.8	984.9	1044.3	884.6	461.5	335.3	237.9	173.5
82.5°	1200.2	1004.1	817.3	717.4	650.9	745.4	521.7	256.3	181.8	142.6	115.0
85°	778.0	743.7	735.8	703.1	622.5	587.8	396.3	220.7	136.3	88.6	71.5
87.5°	299.3	383.8	442.7	474.5	512.9	456.9	206.5	76.1	74.8	46.0	34.7
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°	698.5	698.5	698.5	698.5	698.5	698.5	698.5	698.5	698.5	698.5	698.5
2.5°	724.0	722.4	722.0	720.7	719.9	719.9	717.8	679.7	679.3	679.3	678.9
5°	739.5	737.4	735.3	734.9	733.2	733.2	731.2	693.1	693.1	693.1	692.3
7.5°	760.4	756.2	753.7	752.5	750.0	751.2	752.9	714.4	714.9	714.4	715.3
10°	775.5	773.0	770.0	769.2	767.5	768.8	771.3	733.2	734.5	734.9	735.8
12.5°	790.1	785.9	782.2	780.9	780.1	783.4	786.3	749.5	750.8	752.1	752.1
15°	808.1	801.0	796.0	793.0	791.4	794.7	798.9	762.5	762.9	764.2	763.8
17.5°	838.6	828.1	816.4	814.3	808.9	810.2	811.0	770.5	768.8	765.9	760.8
20°	885.8	869.9	854.1	847.4	836.5	831.9	822.7	770.9	760.4	751.6	744.1
22.5°	953.6	930.1	913.0	901.7	879.6	864.1	839.0	768.8	749.1	734.1	722.4
25°	1063.1	1035.1	1008.7	980.3	945.6	914.7	877.9	787.2	756.7	730.7	708.2
27.5°	1169.7	1125.4	1084.8	1042.2	993.3	946.9	895.0	793.0	758.3	724.9	688.1
30°	1249.5	1185.1	1123.7	1061.4	997.4	937.2	878.7	773.0	731.6	693.9	655.1
32.5°	1298.0	1214.4	1134.6	1057.2	982.0	914.3	848.6	738.3	692.7	648.4	607.0
35°	1344.0	1240.3	1141.3	1050.1	964.0	888.8	818.1	697.7	643.4	596.1	543.9
37.5°	1400.9	1267.5	1145.4	1037.2	937.7	851.6	773.8	646.7	592.4	534.3	484.9
40°	1469.0	1295.5	1141.3	1011.2	896.7	802.6	720.3	593.2	532.6	476.1	427.7
42.5°	1533.8	1320.2	1130.4	976.5	852.0	751.6	671.4	545.5	484.9	427.2	379.2
45°	1581.9	1341.1	1124.9	952.3	817.7	716.9	628.3	507.1	443.1	385.0	336.1
47.5°	1615.3	1353.6	1122.4	938.9	793.9	681.0	589.0	468.6	401.3	342.8	295.1
50°	1632.9	1353.2	1116.2	924.3	758.7	637.9	548.5	429.7	362.9	305.6	262.1
52.5°	1637.5	1345.7	1102.8	897.5	716.1	594.9	505.0	389.2	329.0	274.2	230.3
55°	1627.0	1327.3	1074.8	852.8	670.5	549.3	465.3	357.4	296.0	244.1	209.9
57.5°	1597.3	1294.7	1022.1	791.4	622.5	507.1	419.7	319.0	260.0	216.5	188.1
60°	1542.2	1225.7	939.8	718.6	561.4	442.7	357.0	268.8	222.0	189.4	166.4
62.5°	1440.2	1117.4	824.0	618.3	473.6	359.1	285.1	214.5	179.3	158.0	143.8
65°	1275.9	954.4	689.8	487.0	359.9	261.3	211.9	161.4	135.9	122.9	118.7
67.5°	1041.3	737.0	501.6	338.2	243.7	183.1	147.6	117.9	105.8	100.7	99.1
70°	757.1	502.1	324.8	213.6	160.9	127.9	111.6	94.9	88.2	87.0	87.0
72.5°	475.3	305.2	199.0	146.3	122.1	103.7	95.3	83.6	81.1	80.3	79.0
75°	278.8	185.2	140.9	120.0	104.5	92.8	85.7	76.1	74.4	74.0	72.7
77.5°	177.7	133.4	113.7	102.4	94.5	84.0	77.8	67.7	67.3	66.9	66.5
80°	127.5	110.8	99.5	90.7	82.8	73.2	69.4	61.5	60.6	60.2	61.0
82.5°	96.6	91.6	87.0	80.3	69.4	62.3	59.4	53.9	54.3	52.3	51.8
85°	66.5	65.6	65.2	62.3	54.3	48.1	46.0	43.1	45.1	43.1	40.6
87.5°	32.6	32.2	29.7	35.1	32.6	25.9	23.4	25.9	28.8	28.0	25.9
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-F03-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	698.5	698.5	698.5	698.5	698.5	698.5	698.5	698.5	698.5	698.5	698.5
2.5°	677.2	675.6	676.8	676.0	676.0	675.6	676.4	675.1	674.3	675.1	675.6
5°	690.6	688.5	688.9	686.0	687.3	684.3	685.2	683.1	681.0	680.2	680.2
7.5°	713.2	711.1	708.6	708.2	703.6	701.9	699.0	697.3	696.0	693.1	691.4
10°	733.7	730.3	727.4	727.0	722.4	718.2	714.4	711.1	709.0	704.8	702.7
12.5°	750.4	747.0	742.4	739.9	735.3	730.3	727.8	722.8	719.9	715.3	711.5
15°	760.0	754.1	747.5	742.9	736.2	730.7	727.0	723.2	720.3	714.4	709.0
17.5°	755.4	745.8	736.6	728.2	719.0	714.0	708.6	704.0	703.1	696.5	688.1
20°	736.2	724.9	712.8	701.5	689.4	682.2	675.6	668.4	666.4	658.4	647.5
22.5°	712.8	699.8	686.0	672.2	656.7	646.7	636.7	627.9	620.8	609.1	593.6
25°	688.9	669.7	649.6	632.1	614.1	601.6	591.1	581.5	573.1	554.3	538.4
27.5°	657.6	627.5	607.0	586.9	565.2	548.9	537.2	523.8	514.6	492.9	476.1
30°	617.4	587.3	558.1	538.0	516.3	498.7	483.7	464.4	451.1	435.2	419.7
32.5°	566.9	536.8	507.1	484.5	466.5	444.8	426.0	407.6	392.1	376.7	364.5
35°	505.4	476.1	448.1	425.6	405.5	388.4	370.4	354.5	336.9	320.2	313.1
37.5°	440.6	409.3	378.3	358.7	342.8	330.7	313.9	301.0	285.1	275.1	266.7
40°	384.2	350.7	321.5	304.8	292.2	278.4	264.6	254.6	243.3	233.3	227.0
42.5°	336.5	305.2	280.1	265.9	250.8	235.8	225.3	217.0	209.9	202.3	194.8
45°	292.6	262.5	241.6	224.1	211.5	199.4	192.3	188.5	184.4	179.8	174.7
47.5°	255.8	229.9	209.4	193.1	180.2	171.8	168.5	167.2	165.5	161.8	159.3
50°	227.8	206.5	185.6	171.0	160.1	155.9	152.2	150.9	148.8	147.6	145.9
52.5°	204.4	181.8	164.3	150.9	144.2	142.6	140.9	139.2	138.8	138.0	137.1
55°	185.2	165.5	149.2	139.2	135.9	134.6	134.2	132.5	132.1	132.1	130.8
57.5°	168.1	151.3	136.7	130.4	128.3	127.1	126.2	125.4	125.4	126.2	125.8
60°	150.5	136.3	127.5	124.2	122.9	120.8	118.7	117.9	118.3	120.4	120.4
62.5°	133.4	122.9	117.5	116.2	115.0	113.3	110.8	109.9	110.8	113.3	114.5
65°	114.5	109.9	108.3	107.4	106.6	105.3	103.7	102.8	103.3	104.5	106.2
67.5°	97.4	97.0	97.0	97.4	97.0	96.6	95.7	94.5	94.1	94.1	94.9
70°	87.0	87.0	88.2	88.2	87.8	87.8	86.5	85.3	84.4	83.6	84.0
72.5°	79.0	79.0	79.4	79.8	79.4	79.4	77.8	76.9	74.8	74.4	73.6
75°	72.3	71.5	71.5	71.1	70.6	71.1	69.4	67.3	66.5	66.1	65.2
77.5°	65.6	64.0	63.1	62.3	62.7	62.3	61.0	59.8	58.5	58.1	57.7
80°	58.1	55.6	54.3	52.3	53.5	53.9	53.1	51.8	51.4	51.0	50.6
82.5°	48.1	45.6	43.9	42.6	41.8	42.6	43.9	46.8	46.0	45.6	44.7
85°	37.6	33.4	31.4	31.8	29.7	30.1	33.9	35.5	35.5	36.4	35.5
87.5°	21.3	20.5	15.5	14.2	15.0	18.0	20.1	22.2	22.2	20.9	23.4
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	698.5	698.5	698.5	698.5	698.5	698.5	698.5	698.5	698.5	698.5	698.5
2.5°	675.6	676.4	676.8	678.5	679.3	679.7	680.2	681.0	681.4	681.0	683.1
5°	678.9	678.9	678.1	679.3	679.7	679.7	678.9	679.7	679.7	679.7	681.8
7.5°	687.7	685.2	683.9	682.2	681.0	679.3	677.2	677.2	676.8	677.2	678.5
10°	696.9	693.1	688.5	684.3	680.6	677.6	673.9	672.6	672.2	671.8	675.1
12.5°	704.0	697.3	690.2	683.1	675.6	670.5	664.3	660.5	660.1	660.1	664.3
15°	699.0	688.1	674.3	661.8	655.1	648.0	640.9	636.3	635.8	636.7	639.2
17.5°	673.9	656.3	644.2	632.1	623.3	617.4	612.8	612.0	613.7	612.0	615.4
20°	631.2	612.4	604.1	594.5	591.1	586.9	580.2	574.4	574.4	566.9	569.0
22.5°	576.1	565.6	554.7	547.2	544.7	537.6	530.5	522.6	521.7	512.5	511.3
25°	518.4	507.9	499.1	497.5	489.9	480.3	473.6	464.4	462.4	453.2	451.9
27.5°	459.4	451.1	442.3	437.3	433.1	422.6	416.8	405.9	401.7	391.7	390.5
30°	403.4	397.6	387.1	382.9	375.0	362.9	350.3	343.6	340.3	329.8	326.5
32.5°	350.7	341.5	333.6	328.6	318.5	304.8	293.5	283.9	277.6	265.0	261.7
35°	300.6	291.4	287.6	274.7	265.9	256.7	241.2	235.4	224.1	214.5	211.1
37.5°	256.3	247.5	242.5	231.6	222.8	213.6	204.4	196.9	191.5	189.4	189.4
40°	218.2	213.6	207.3	199.4	193.6	186.9	181.8	179.3	178.9	179.8	181.8
42.5°	191.0	186.0	181.8	177.7	173.5	172.7	171.4	173.1	175.2	177.2	179.3
45°	170.6	166.4	163.9	162.2	161.8	163.0	165.5	168.1	171.8	174.3	176.0
47.5°	155.9	152.6	151.7	151.3	153.4	157.2	160.5	164.3	167.2	169.7	171.4
50°	143.4	140.5	140.0	139.6	142.6	145.9	148.8	153.8	155.9	157.6	158.9
52.5°	134.6	132.1	130.8	131.3	134.2	137.1	141.3	145.1	148.0	149.2	150.5
55°	127.5	126.7	123.7	125.0	127.9	131.7	135.9	140.0	143.0	145.1	147.2
57.5°	122.1	120.0	117.9	120.0	122.9	126.7	131.7	135.4	139.2	142.1	144.2
60°	116.2	114.5	112.9	115.0	117.9	121.7	125.4	130.4	135.0	138.0	140.0
62.5°	111.2	109.9	108.3	108.7	109.9	112.5	114.5	119.1	123.3	127.1	129.6
65°	104.1	103.7	101.2	101.6	102.4	104.9	106.6	110.8	115.0	118.3	120.4
67.5°	93.6	92.8	92.8	94.1	94.5	95.7	97.0	101.2	104.5	107.0	109.5
70°	83.2	82.8	82.8	83.6	83.2	84.4	86.1	89.9	94.1	96.6	99.1
72.5°	73.2	73.2	72.7	73.6	73.6	74.0	76.1	79.4	83.2	85.3	87.0
75°	64.4	64.0	64.0	64.0	64.4	64.4	66.5	69.4	73.2	74.4	76.9
77.5°	56.4	56.4	56.4	56.4	56.9	56.4	57.7	59.8	61.0	63.1	63.1
80°	49.7	49.3	49.7	50.2	50.2	49.7	49.7	50.2	50.6	50.6	50.6
82.5°	43.9	42.6	43.5	45.6	45.6	45.6	45.1	42.2	40.1	40.1	41.0
85°	35.1	35.1	35.5	38.5	38.9	37.2	38.9	34.7	30.5	29.3	30.1
87.5°	21.7	17.1	20.9	23.8	23.8	22.6	25.1	23.4	19.6	15.9	15.0
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	698.5	698.5	698.5	698.5	698.5	698.5	698.5	698.5	698.5	698.5	698.5	0°
2.5°	684.8	685.2	687.7	688.9	688.9	690.6	691.4	693.9	693.5	693.5	694.4	2.5°
5°	683.9	685.2	687.7	689.4	690.2	692.3	693.9	696.9	696.5	697.3	697.7	5°
7.5°	681.0	684.3	686.8	690.2	693.1	694.8	696.9	699.4	698.5	699.0	698.5	7.5°
10°	678.5	681.8	686.8	691.4	695.6	698.1	699.4	702.3	701.9	702.7	702.7	10°
12.5°	668.4	674.3	680.6	687.7	693.9	700.6	704.8	711.1	714.0	717.8	722.0	12.5°
15°	642.9	649.6	659.7	667.6	679.7	688.9	701.1	713.2	724.0	734.5	746.6	15°
17.5°	617.9	620.8	628.7	639.6	650.5	664.3	678.9	700.6	720.3	741.6	765.0	17.5°
20°	571.5	576.5	581.9	594.9	607.8	627.5	645.5	673.9	702.7	736.2	772.1	20°
22.5°	514.2	519.2	525.1	539.7	555.6	575.6	597.4	629.2	667.6	711.1	759.2	22.5°
25°	452.3	455.2	459.8	474.5	484.1	510.4	536.8	569.8	611.6	667.6	723.6	25°
27.5°	384.2	389.6	393.4	400.1	422.2	444.8	472.4	507.9	558.5	615.8	683.5	27.5°
30°	319.0	323.6	321.5	335.7	350.3	374.1	403.8	443.1	491.6	559.8	637.9	30°
32.5°	255.0	258.3	257.1	267.1	281.8	305.6	333.6	376.2	427.7	500.4	585.3	32.5°
35°	210.3	211.1	215.7	220.3	232.8	252.1	275.9	313.1	365.8	432.7	522.6	35°
37.5°	189.4	191.0	194.0	200.2	209.4	223.2	242.9	271.7	316.9	375.8	456.1	37.5°
40°	183.1	184.4	186.0	190.2	199.0	211.1	228.7	252.9	285.9	335.7	400.9	40°
42.5°	180.2	180.2	180.2	182.7	189.4	202.3	222.4	246.2	275.1	312.7	365.4	42.5°
45°	176.0	176.0	175.6	176.8	181.4	194.4	216.1	242.9	273.8	309.8	355.3	45°
47.5°	171.4	171.0	169.7	169.7	172.7	185.6	208.2	237.0	270.9	312.3	361.2	47.5°
50°	158.9	158.9	158.9	160.1	162.6	174.3	198.6	229.1	268.0	313.9	370.4	50°
52.5°	151.7	152.2	153.4	153.4	155.9	168.1	193.6	227.4	269.6	320.2	382.1	52.5°
55°	148.4	149.7	150.9	150.9	153.0	165.5	191.9	228.7	275.9	333.2	402.2	55°
57.5°	145.5	146.7	147.6	147.6	149.2	160.1	187.3	226.6	279.7	345.7	426.8	57.5°
60°	140.0	140.9	141.3	141.3	141.7	150.9	176.8	216.5	271.3	344.9	440.2	60°
62.5°	130.0	131.7	132.1	132.5	132.5	141.3	163.5	200.2	253.3	332.3	436.4	62.5°
65°	122.5	123.3	124.6	125.4	127.1	132.9	150.5	180.6	229.9	307.3	415.5	65°
67.5°	110.8	112.0	113.3	115.0	116.6	120.4	134.2	158.4	198.2	264.6	368.7	67.5°
70°	100.3	100.7	102.0	104.1	104.5	106.6	116.6	133.4	162.2	212.4	296.8	70°
72.5°	87.4	88.2	89.9	92.4	92.4	94.1	99.9	108.7	127.1	162.2	219.1	72.5°
75°	76.1	76.9	78.2	78.2	76.1	76.5	80.7	87.0	100.7	122.1	159.7	75°
77.5°	63.1	64.8	66.1	63.5	62.7	64.0	66.1	70.6	80.7	97.0	120.0	77.5°
80°	52.3	53.1	53.5	53.9	53.1	54.3	56.0	58.9	65.6	78.2	94.9	80°
82.5°	41.8	42.6	43.9	45.6	45.6	50.2	50.6	50.6	54.3	62.3	74.4	82.5°
85°	30.9	32.6	34.3	36.4	36.8	39.3	38.0	37.6	38.9	46.4	51.4	85°
87.5°	15.9	17.1	18.0	19.6	17.6	18.4	18.4	17.1	15.0	18.8	20.9	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°
698.5	698.5	698.5	698.5	698.5	698.5	698.5
695.2	694.4	695.2	695.2	696.5	695.6	739.9
698.5	697.7	698.5	699.4	700.6	700.6	749.5
699.0	699.0	698.1	700.2	701.9	703.6	758.7
704.0	704.0	704.8	705.2	709.0	713.2	773.8
724.5	726.6	730.3	731.6	738.3	742.9	812.3
755.8	767.5	775.0	777.6	783.4	792.2	877.1
787.6	807.2	827.7	840.3	847.8	858.2	956.5
811.4	848.2	883.3	914.7	932.7	953.1	1067.7
813.5	872.0	931.4	989.5	1037.6	1075.6	1218.2
793.4	870.4	952.3	1041.3	1124.1	1192.7	1391.2
767.9	862.4	966.9	1080.6	1189.3	1290.5	1518.7
735.8	849.0	969.4	1097.4	1224.9	1346.5	1591.5
686.8	809.3	939.3	1080.6	1228.6	1376.6	1638.3
624.1	749.1	882.5	1043.4	1211.1	1388.7	1677.6
560.2	683.5	826.9	993.7	1183.1	1386.6	1693.5
492.5	614.9	761.7	940.6	1145.0	1367.4	1690.6
446.5	558.1	701.9	886.7	1102.8	1341.9	1670.9
419.7	517.5	654.7	837.3	1064.3	1311.4	1646.2
419.3	505.4	629.6	802.2	1025.5	1277.5	1612.8
433.9	512.9	626.6	787.2	1004.1	1252.9	1576.4
451.1	533.8	642.1	792.6	1003.7	1242.0	1550.9
478.2	569.4	676.0	816.0	1014.6	1240.3	1519.6
512.9	617.4	737.0	873.7	1056.8	1273.4	1521.7
548.5	673.9	816.9	972.4	1140.0	1350.3	1587.7
561.4	717.4	898.0	1088.2	1264.6	1465.7	1724.0
550.1	727.4	947.3	1178.0	1385.8	1600.7	1886.6
508.3	686.8	927.2	1203.5	1455.6	1696.4	2049.2
418.5	586.1	836.1	1146.3	1450.2	1716.1	2107.8
306.8	454.4	679.7	974.0	1289.2	1593.2	2020.0
221.6	321.5	490.8	733.7	1019.2	1283.0	1694.3
158.9	222.8	318.5	482.0	694.4	893.4	1207.7
114.1	151.3	198.6	289.3	423.1	548.5	758.7
84.0	103.7	130.4	179.8	249.2	319.4	456.9
57.3	61.0	78.6	106.2	163.5	234.9	310.2
21.7	24.7	28.8	43.5	73.2	84.0	59.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)