

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: P158753

Luminaire Tested: **VTS-F02-LED-E1-SLL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158753
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-8030
Description: VENTUS LED SITE LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3744.7 lumens
Efficiency: N/A
Efficacy: 68.1 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

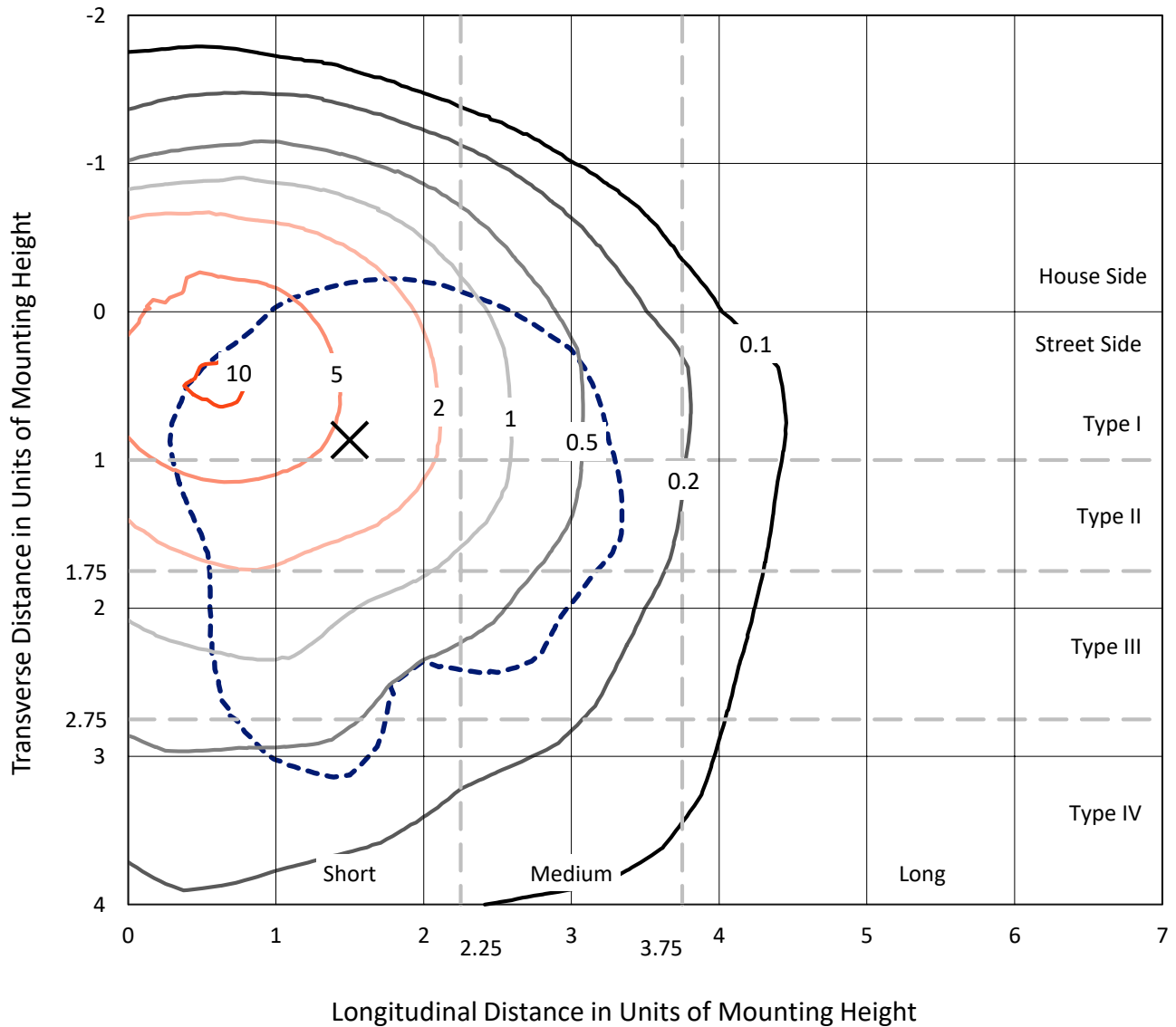
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

REPORT NUMBER: P158753

CATALOG NUMBER: VTS-F02-LED-E1-SLL-8030

Iso-Footcandle Lines of Horizontal Illumination

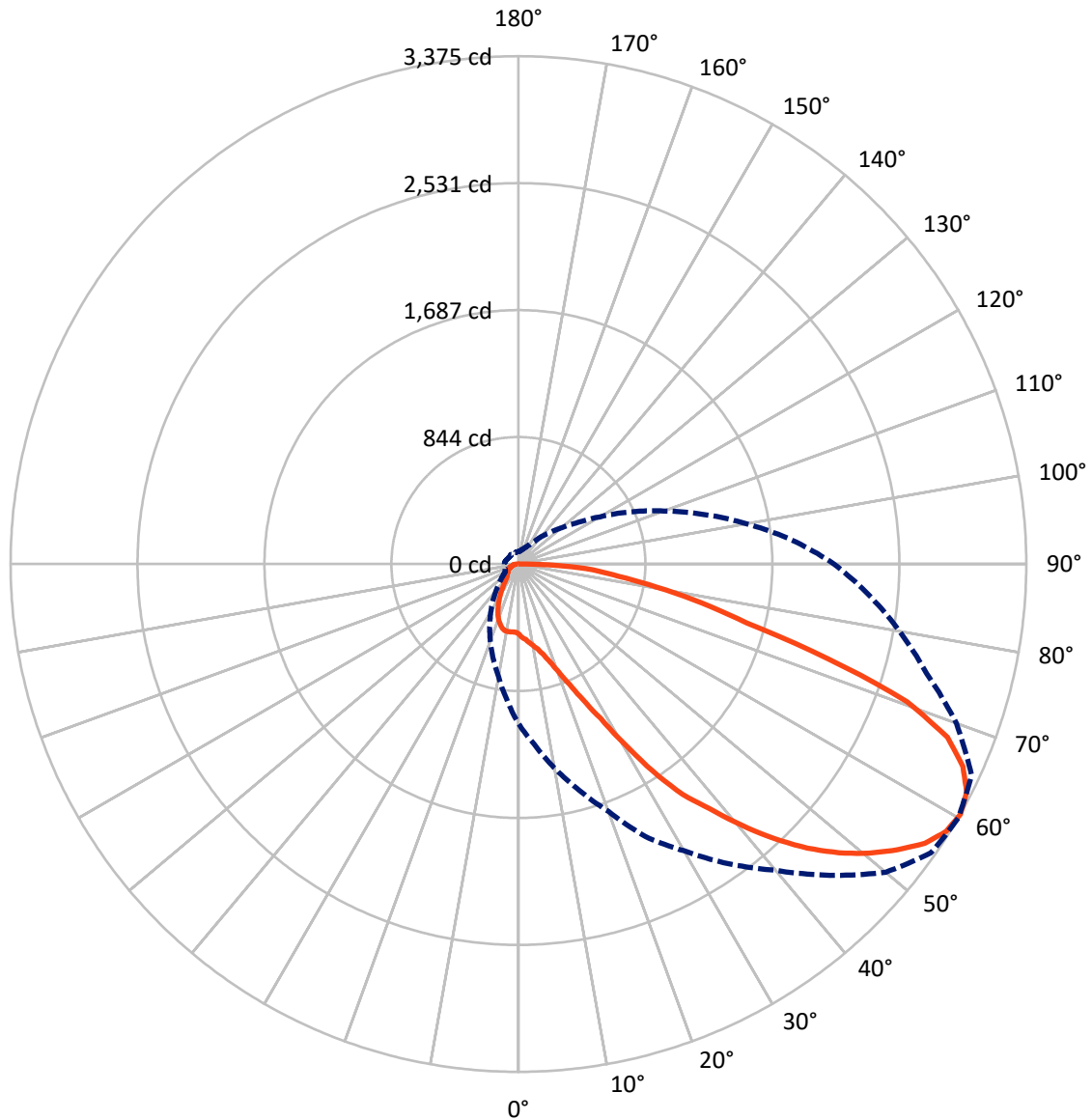
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.7 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P158753
CATALOG NUMBER: VTS-F02-LED-E1-SLL-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P158753

CATALOG NUMBER: VTS-F02-LED-E1-SLL-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	843.2	0.0	843.2
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	2901.5	0.0	2901.5
	% Fixture	77.5	0.0	77.5
Total	Lumens	3744.7	0.0	3744.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.9	1.2
10°-20°	148.3	4.0
20°-30°	281.5	7.5
30°-40°	443.3	11.8
40°-50°	618.8	16.5
50°-60°	765.3	20.4
60°-70°	793.2	21.2
70°-80°	499.1	13.3
80°-90°	149.2	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°	3744.7	100.0
0°-180°	3744.7	100.0



REPORT NUMBER: P158753

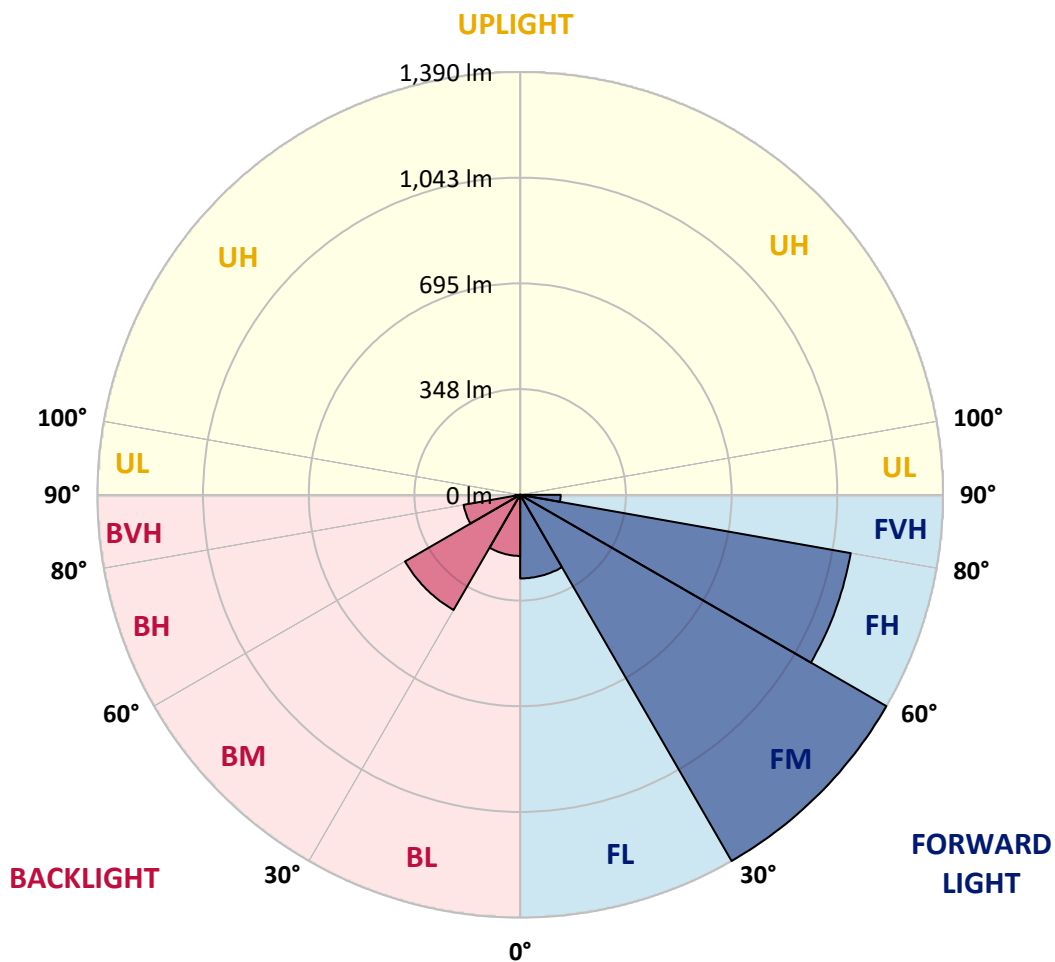
CATALOG NUMBER: VTS-F02-LED-E1-SLL-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	274.9	7.3			
FM	(30°-60°)	1390.1	37.1			
FH	(60°-80°)	1103.5	29.5			G1/1800
FVH	(80°-90°)	133.0	3.6			G2/225
BL	(0°-30°)	200.9	5.4	B1/500		
BM	(30°-60°)	437.2	11.7	B1/1000		
BH	(60°-80°)	188.8	5.0	B1/500		G1/500
BVH	(80°-90°)	16.2	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





REPORT NUMBER: P158753

CATALOG NUMBER: VTS-F02-LED-E1-SLL-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7
2.5°	493.3	492.7	492.7	492.7	492.5	491.9	492.7	492.5	491.1	490.2	491.1
5°	499.7	500.0	500.8	501.1	501.1	501.9	504.2	504.4	504.2	504.7	506.1
7.5°	505.8	507.2	508.1	509.5	511.1	512.5	516.4	520.3	522.8	524.8	525.3
10°	515.9	518.1	520.6	524.2	528.1	535.1	538.4	542.3	544.8	548.7	549.6
12.5°	541.5	544.3	546.0	551.5	556.6	563.2	568.0	569.1	574.9	578.3	582.2
15°	584.7	588.9	594.7	598.1	603.7	609.5	613.7	619.3	620.1	624.6	627.6
17.5°	637.7	643.5	655.5	663.6	670.8	676.7	685.0	691.4	692.8	697.9	691.4
20°	711.8	726.0	727.9	744.1	750.5	762.2	779.0	782.0	790.1	782.0	777.3
22.5°	812.1	834.4	840.5	856.1	864.0	881.8	886.8	903.2	908.8	902.7	889.9
25°	927.5	962.1	979.9	1003.9	1007.8	1044.3	1048.2	1067.4	1057.1	1042.3	1042.6
27.5°	1012.5	1071.3	1117.3	1158.3	1187.0	1228.2	1260.3	1269.2	1259.4	1240.2	1233.5
30°	1061.0	1127.6	1193.6	1250.2	1317.1	1380.1	1445.6	1478.2	1483.8	1493.8	1453.4
32.5°	1092.2	1177.8	1256.4	1326.3	1394.9	1476.0	1563.8	1647.6	1718.1	1771.4	1746.3
35°	1118.4	1224.0	1324.6	1409.4	1490.5	1578.8	1667.4	1766.4	1883.1	1951.4	1965.6
37.5°	1129.0	1258.0	1381.2	1489.9	1603.9	1703.4	1791.4	1879.5	2002.1	2123.9	2161.6
40°	1127.0	1274.7	1414.9	1551.5	1691.1	1815.4	1918.5	2022.8	2166.3	2308.7	2370.0
42.5°	1113.9	1277.3	1436.4	1592.5	1751.6	1916.9	2048.7	2168.8	2306.5	2489.0	2575.7
45°	1097.5	1268.6	1440.8	1613.4	1796.5	1987.6	2154.3	2302.9	2464.2	2644.5	2749.3
47.5°	1075.2	1255.0	1435.3	1620.6	1816.5	2033.1	2229.0	2407.6	2585.2	2792.8	2925.7
50°	1051.0	1235.5	1423.8	1615.3	1821.5	2057.9	2271.6	2475.1	2682.4	2906.5	3074.6
52.5°	1034.0	1214.5	1413.5	1604.4	1816.5	2065.4	2287.2	2511.3	2742.1	2973.7	3174.3
55°	1013.1	1186.7	1385.9	1579.1	1798.1	2061.2	2285.6	2523.9	2758.5	2999.6	3228.7
57.5°	1014.4	1173.9	1362.5	1548.7	1760.5	2022.5	2254.1	2511.3	2732.6	2982.9	3230.6
60°	1058.5	1201.5	1374.8	1554.8	1749.4	1998.0	2200.6	2430.5	2656.5	2925.2	3185.5
62.5°	1149.3	1280.3	1437.8	1616.1	1812.1	2047.0	2176.3	2296.2	2496.8	2819.0	3108.6
65°	1257.7	1375.9	1512.5	1682.2	1901.8	2126.7	2162.7	2186.9	2288.4	2612.5	2964.2
67.5°	1366.2	1471.8	1579.1	1719.8	1952.8	2149.6	2106.9	2049.2	2103.9	2372.5	2680.5
70°	1405.2	1545.4	1615.9	1712.6	1914.1	2096.3	2016.9	1871.7	1890.7	2134.8	2360.0
72.5°	1346.7	1546.5	1569.9	1605.8	1741.6	1913.0	1829.1	1642.3	1638.4	1824.9	2006.9
75°	1129.5	1410.8	1410.5	1397.1	1427.8	1525.3	1481.8	1369.2	1416.9	1563.8	1623.7
77.5°	805.1	1100.8	1114.8	1024.8	1022.5	1066.6	1092.8	1223.7	1396.5	1479.0	1460.1
80°	505.8	742.7	802.6	691.4	667.8	730.2	892.1	1082.7	1295.4	1369.5	1305.7
82.5°	304.6	478.5	606.2	543.2	537.6	651.3	830.2	904.4	968.2	1047.1	940.3
85°	206.8	318.8	414.7	427.2	476.0	593.6	671.4	638.5	640.2	619.5	564.4
87.5°	39.6	87.0	142.1	173.3	192.3	258.3	280.9	254.4	268.7	196.5	214.9
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: P158753

CATALOG NUMBER: VTS-F02-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7
2.5°	489.7	489.7	489.7	488.3	488.6	486.6	485.8	485.8	484.9	484.9	484.6
5°	505.0	503.3	504.2	503.9	503.9	501.1	499.7	499.7	496.1	496.4	495.2
7.5°	527.8	527.6	528.4	526.7	524.5	522.3	520.0	518.9	513.9	510.8	508.9
10°	553.8	553.5	554.3	554.0	550.1	546.0	539.8	535.4	529.2	524.5	519.8
12.5°	582.2	581.9	581.4	578.8	574.7	568.0	560.2	552.7	543.5	537.3	530.4
15°	626.5	625.7	622.3	618.7	614.2	603.9	590.3	579.4	567.1	556.6	545.1
17.5°	692.0	685.0	684.5	676.4	664.4	650.8	637.9	619.8	602.3	586.4	570.8
20°	782.3	766.1	761.7	752.5	736.6	722.4	694.5	670.3	646.3	624.6	604.8
22.5°	880.7	869.0	858.1	843.1	821.3	800.7	765.3	734.9	704.3	676.4	654.4
25°	1018.1	997.7	978.2	954.2	924.2	899.6	859.2	828.6	788.4	763.1	731.3
27.5°	1195.6	1160.8	1127.9	1107.3	1054.3	1018.6	967.1	927.5	879.0	844.7	807.1
30°	1426.6	1386.2	1337.5	1266.1	1203.1	1132.3	1068.5	1017.8	966.2	918.3	874.8
32.5°	1713.1	1641.8	1564.6	1451.4	1348.0	1247.2	1162.2	1099.7	1047.1	987.4	926.1
35°	1955.3	1881.7	1772.2	1628.4	1500.8	1385.4	1283.7	1198.4	1129.5	1054.0	972.9
37.5°	2146.5	2062.6	1959.8	1807.1	1672.2	1540.9	1434.2	1325.5	1235.2	1131.2	1028.7
40°	2365.6	2281.4	2168.2	2009.9	1850.3	1707.8	1582.7	1470.4	1359.5	1232.7	1100.8
42.5°	2556.5	2495.7	2381.2	2217.6	2040.6	1882.0	1745.2	1616.7	1471.8	1329.9	1173.9
45°	2755.4	2693.6	2584.9	2413.8	2225.7	2049.0	1885.4	1747.1	1576.0	1407.1	1228.5
47.5°	2931.3	2867.8	2758.0	2588.0	2388.1	2202.0	2021.9	1854.7	1656.0	1462.0	1264.2
50°	3099.1	3021.3	2920.7	2751.3	2537.8	2338.8	2143.4	1928.8	1718.1	1500.5	1288.4
52.5°	3253.2	3154.3	3058.9	2884.5	2653.7	2445.8	2227.9	1991.8	1756.3	1530.9	1304.8
55°	3340.7	3276.9	3162.9	2991.5	2736.2	2519.4	2281.4	2036.1	1794.2	1552.3	1311.8
57.5°	3367.7	3352.1	3256.5	3053.4	2784.7	2559.8	2317.6	2071.3	1819.6	1558.5	1302.1
60°	3346.3	3374.7	3322.3	3096.9	2806.7	2571.8	2335.5	2096.3	1824.1	1538.9	1272.5
62.5°	3277.4	3342.1	3335.4	3111.3	2795.3	2556.7	2333.5	2083.5	1782.2	1478.2	1206.2
65°	3164.3	3245.7	3274.4	3057.6	2730.9	2501.8	2283.9	2003.0	1666.0	1359.5	1095.0
67.5°	2951.4	3074.6	3102.4	2881.4	2562.6	2349.9	2140.9	1835.8	1450.9	1175.8	921.4
70°	2524.7	2740.1	2777.7	2545.9	2265.8	2079.1	1901.8	1570.7	1208.1	943.1	707.0
72.5°	2015.5	2151.0	2227.9	2068.2	1859.7	1724.3	1590.0	1205.1	911.6	695.9	486.6
75°	1575.7	1567.7	1636.5	1530.3	1407.7	1344.4	1243.5	840.8	610.6	461.0	308.0
77.5°	1347.2	1243.5	1165.2	1090.5	1017.8	997.7	901.0	521.7	377.4	276.2	184.2
80°	1119.8	930.6	787.6	682.5	656.6	696.2	589.7	307.7	223.5	158.6	115.7
82.5°	800.1	669.4	544.8	478.2	433.9	496.9	347.8	170.8	121.2	95.0	76.6
85°	518.6	495.8	490.5	468.8	415.0	391.8	264.2	147.2	90.9	59.1	47.7
87.5°	199.5	255.8	295.1	316.3	342.0	304.6	137.7	50.7	49.9	30.7	23.1
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: P158753

CATALOG NUMBER: VTS-F02-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7
2.5°	482.7	481.6	481.3	480.5	479.9	479.9	478.5	453.2	452.9	452.9	452.6
5°	493.0	491.6	490.2	489.9	488.8	488.8	487.4	462.1	462.1	462.1	461.5
7.5°	506.9	504.2	502.5	501.6	500.0	500.8	501.9	476.3	476.6	476.3	476.8
10°	517.0	515.3	513.4	512.8	511.7	512.5	514.2	488.8	489.7	489.9	490.5
12.5°	526.7	523.9	521.4	520.6	520.0	522.3	524.2	499.7	500.5	501.4	501.4
15°	538.7	534.0	530.6	528.7	527.6	529.8	532.6	508.3	508.6	509.5	509.2
17.5°	559.1	552.1	544.3	542.9	539.3	540.1	540.7	513.6	512.5	510.6	507.2
20°	590.6	580.0	569.4	564.9	557.7	554.6	548.5	513.9	506.9	501.1	496.1
22.5°	635.7	620.1	608.7	601.1	586.4	576.1	559.3	512.5	499.4	489.4	481.6
25°	708.7	690.0	672.5	653.5	630.4	609.8	585.3	524.8	504.4	487.2	472.1
27.5°	779.8	750.2	723.2	694.8	662.2	631.2	596.7	528.7	505.6	483.3	458.7
30°	833.0	790.1	749.1	707.6	665.0	624.8	585.8	515.3	487.7	462.6	436.7
32.5°	865.3	809.6	756.4	704.8	654.7	609.5	565.7	492.2	461.8	432.3	404.7
35°	896.0	826.9	760.8	700.1	642.7	592.5	545.4	465.1	428.9	397.4	362.6
37.5°	933.9	845.0	763.6	691.4	625.1	567.7	515.9	431.1	394.9	356.2	323.3
40°	979.3	863.7	760.8	674.2	597.8	535.1	480.2	395.5	355.1	317.4	285.1
42.5°	1022.5	880.1	753.6	651.0	568.0	501.1	447.6	363.7	323.3	284.8	252.8
45°	1054.6	894.1	750.0	634.9	545.1	478.0	418.9	338.1	295.4	256.7	224.1
47.5°	1076.9	902.4	748.3	625.9	529.2	454.0	392.7	312.4	267.5	228.5	196.8
50°	1088.6	902.1	744.1	616.2	505.8	425.3	365.6	286.5	241.9	203.7	174.7
52.5°	1091.6	897.1	735.2	598.4	477.4	396.6	336.7	259.5	219.3	182.8	153.6
55°	1084.7	884.9	716.5	568.5	447.0	366.2	310.2	238.3	197.3	162.8	139.9
57.5°	1064.9	863.1	681.4	527.6	415.0	338.1	279.8	212.6	173.3	144.4	125.4
60°	1028.1	817.1	626.5	479.1	374.3	295.1	238.0	179.2	148.0	126.2	110.9
62.5°	960.1	744.9	549.3	412.2	315.8	239.4	190.1	143.0	119.6	105.3	95.9
65°	850.6	636.3	459.8	324.7	240.0	174.2	141.3	107.6	90.6	81.9	79.1
67.5°	694.2	491.3	334.4	225.5	162.5	122.1	98.4	78.6	70.5	67.2	66.1
70°	504.7	334.7	216.5	142.4	107.3	85.3	74.4	63.3	58.8	58.0	58.0
72.5°	316.9	203.4	132.7	97.5	81.4	69.1	63.5	55.7	54.1	53.5	52.7
75°	185.9	123.5	93.9	80.0	69.7	61.9	57.1	50.7	49.6	49.3	48.5
77.5°	118.4	88.9	75.8	68.3	63.0	56.0	51.8	45.1	44.9	44.6	44.3
80°	85.0	73.9	66.3	60.5	55.2	48.8	46.3	41.0	40.4	40.1	40.7
82.5°	64.4	61.0	58.0	53.5	46.3	41.5	39.6	36.0	36.2	34.8	34.6
85°	44.3	43.8	43.5	41.5	36.2	32.0	30.7	28.7	30.1	28.7	27.0
87.5°	21.7	21.5	19.8	23.4	21.7	17.3	15.6	17.3	19.2	18.7	17.3
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: P158753

CATALOG NUMBER: VTS-F02-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7
2.5°	451.5	450.4	451.2	450.6	450.6	450.4	450.9	450.1	449.5	450.1	450.4
5°	460.4	459.0	459.3	457.3	458.2	456.2	456.8	455.4	454.0	453.4	453.4
7.5°	475.5	474.1	472.4	472.1	469.0	467.9	466.0	464.9	464.0	462.1	461.0
10°	489.1	486.9	484.9	484.6	481.6	478.8	476.3	474.1	472.7	469.9	468.5
12.5°	500.3	498.0	495.0	493.3	490.2	486.9	485.2	481.9	479.9	476.8	474.3
15°	506.7	502.8	498.3	495.2	490.8	487.2	484.6	482.1	480.2	476.3	472.7
17.5°	503.6	497.2	491.1	485.5	479.4	476.0	472.4	469.3	468.8	464.3	458.7
20°	490.8	483.3	475.2	467.6	459.6	454.8	450.4	445.6	444.2	438.9	431.7
22.5°	475.2	466.5	457.3	448.1	437.8	431.1	424.5	418.6	413.9	406.1	395.7
25°	459.3	446.5	433.1	421.4	409.4	401.0	394.1	387.7	382.1	369.5	359.0
27.5°	438.4	418.3	404.7	391.3	376.8	365.9	358.1	349.2	343.1	328.6	317.4
30°	411.6	391.6	372.1	358.7	344.2	332.5	322.4	309.6	300.7	290.1	279.8
32.5°	377.9	357.8	338.1	323.0	311.0	296.5	284.0	271.7	261.4	251.1	243.0
35°	336.9	317.4	298.8	283.7	270.3	258.9	246.9	236.3	224.6	213.5	208.7
37.5°	293.7	272.8	252.2	239.1	228.5	220.4	209.3	200.7	190.1	183.4	177.8
40°	256.1	233.8	214.3	203.2	194.8	185.6	176.4	169.7	162.2	155.5	151.3
42.5°	224.3	203.4	186.7	177.2	167.2	157.2	150.2	144.6	139.9	134.9	129.9
45°	195.1	175.0	161.1	149.4	141.0	132.9	128.2	125.7	122.9	119.8	116.5
47.5°	170.6	153.3	139.6	128.8	120.1	114.5	112.3	111.5	110.4	107.9	106.2
50°	151.9	137.7	123.7	114.0	106.7	104.0	101.4	100.6	99.2	98.4	97.3
52.5°	136.3	121.2	109.5	100.6	96.1	95.0	93.9	92.8	92.5	92.0	91.4
55°	123.5	110.4	99.5	92.8	90.6	89.7	89.5	88.3	88.1	88.1	87.2
57.5°	112.0	100.9	91.1	87.0	85.6	84.7	84.2	83.6	83.6	84.2	83.9
60°	100.3	90.9	85.0	82.8	81.9	80.5	79.1	78.6	78.9	80.3	80.3
62.5°	88.9	81.9	78.3	77.5	76.6	75.5	73.9	73.3	73.9	75.5	76.4
65°	76.4	73.3	72.2	71.6	71.1	70.2	69.1	68.6	68.8	69.7	70.8
67.5°	64.9	64.7	64.7	64.9	64.7	64.4	63.8	63.0	62.7	62.7	63.3
70°	58.0	58.0	58.8	58.8	58.5	58.5	57.7	56.9	56.3	55.7	56.0
72.5°	52.7	52.7	53.0	53.2	53.0	53.0	51.8	51.3	49.9	49.6	49.1
75°	48.2	47.7	47.7	47.4	47.1	47.4	46.3	44.9	44.3	44.0	43.5
77.5°	43.8	42.6	42.1	41.5	41.8	41.5	40.7	39.9	39.0	38.7	38.5
80°	38.7	37.1	36.2	34.8	35.7	36.0	35.4	34.6	34.3	34.0	33.7
82.5°	32.0	30.4	29.3	28.4	27.9	28.4	29.3	31.2	30.7	30.4	29.8
85°	25.1	22.3	20.9	21.2	19.8	20.1	22.6	23.7	23.7	24.2	23.7
87.5°	14.2	13.7	10.3	9.5	10.0	12.0	13.4	14.8	14.8	13.9	15.6
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: P158753

CATALOG NUMBER: VTS-F02-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7
2.5°	450.4	450.9	451.2	452.3	452.9	453.2	453.4	454.0	454.3	454.0	455.4
5°	452.6	452.6	452.0	452.9	453.2	453.2	452.6	453.2	453.2	453.2	454.6
7.5°	458.5	456.8	455.9	454.8	454.0	452.9	451.5	451.5	451.2	451.5	452.3
10°	464.6	462.1	459.0	456.2	453.7	451.8	449.3	448.4	448.1	447.9	450.1
12.5°	469.3	464.9	460.1	455.4	450.4	447.0	442.8	440.3	440.1	440.1	442.8
15°	466.0	458.7	449.5	441.2	436.7	432.0	427.2	424.2	423.9	424.5	426.1
17.5°	449.3	437.5	429.5	421.4	415.5	411.6	408.6	408.0	409.1	408.0	410.2
20°	420.8	408.3	402.7	396.3	394.1	391.3	386.8	382.9	382.9	377.9	379.3
22.5°	384.0	377.1	369.8	364.8	363.1	358.4	353.7	348.4	347.8	341.7	340.8
25°	345.6	338.6	332.8	331.6	326.6	320.2	315.8	309.6	308.2	302.1	301.3
27.5°	306.3	300.7	294.9	291.5	288.7	281.8	277.9	270.6	267.8	261.1	260.3
30°	268.9	265.0	258.1	255.3	250.0	241.9	233.5	229.1	226.9	219.9	217.7
32.5°	233.8	227.7	222.4	219.1	212.4	203.2	195.6	189.2	185.1	176.7	174.5
35°	200.4	194.2	191.7	183.1	177.2	171.1	160.8	156.9	149.4	143.0	140.7
37.5°	170.8	165.0	161.6	154.4	148.5	142.4	136.3	131.3	127.6	126.2	126.2
40°	145.5	142.4	138.2	132.9	129.0	124.6	121.2	119.6	119.3	119.8	121.2
42.5°	127.4	124.0	121.2	118.4	115.7	115.1	114.3	115.4	116.8	118.2	119.6
45°	113.7	110.9	109.2	108.1	107.9	108.7	110.4	112.0	114.5	116.2	117.3
47.5°	104.0	101.7	101.2	100.9	102.3	104.8	107.0	109.5	111.5	113.1	114.3
50°	95.6	93.6	93.4	93.1	95.0	97.3	99.2	102.6	104.0	105.1	105.9
52.5°	89.7	88.1	87.2	87.5	89.5	91.4	94.2	96.7	98.7	99.5	100.3
55°	85.0	84.4	82.5	83.3	85.3	87.8	90.6	93.4	95.3	96.7	98.1
57.5°	81.4	80.0	78.6	80.0	81.9	84.4	87.8	90.3	92.8	94.8	96.1
60°	77.5	76.4	75.2	76.6	78.6	81.1	83.6	87.0	90.0	92.0	93.4
62.5°	74.1	73.3	72.2	72.5	73.3	75.0	76.4	79.4	82.2	84.7	86.4
65°	69.4	69.1	67.4	67.7	68.3	70.0	71.1	73.9	76.6	78.9	80.3
67.5°	62.4	61.9	61.9	62.7	63.0	63.8	64.7	67.4	69.7	71.3	73.0
70°	55.5	55.2	55.2	55.7	55.5	56.3	57.4	59.9	62.7	64.4	66.1
72.5°	48.8	48.8	48.5	49.1	49.1	49.3	50.7	53.0	55.5	56.9	58.0
75°	42.9	42.6	42.6	42.6	42.9	42.9	44.3	46.3	48.8	49.6	51.3
77.5°	37.6	37.6	37.6	37.6	37.9	37.6	38.5	39.9	40.7	42.1	42.1
80°	33.2	32.9	33.2	33.4	33.4	33.2	33.2	33.4	33.7	33.7	33.7
82.5°	29.3	28.4	29.0	30.4	30.4	30.4	30.1	28.1	26.8	26.8	27.3
85°	23.4	23.4	23.7	25.6	25.9	24.8	25.9	23.1	20.3	19.5	20.1
87.5°	14.5	11.4	13.9	15.9	15.9	15.0	16.7	15.6	13.1	10.6	10.0
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: P158753
 CATALOG NUMBER: VTS-F02-LED-E1-SLL-8030

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	465.7	0°
2.5°	456.5	456.8	458.5	459.3	459.3	460.4	461.0	462.6	462.4	462.4	462.9	2.5°
5°	455.9	456.8	458.5	459.6	460.1	461.5	462.6	464.6	464.3	464.9	465.1	5°
7.5°	454.0	456.2	457.9	460.1	462.1	463.2	464.6	466.3	465.7	466.0	465.7	7.5°
10°	452.3	454.6	457.9	461.0	463.7	465.4	466.3	468.2	467.9	468.5	468.5	10°
12.5°	445.6	449.5	453.7	458.5	462.6	467.1	469.9	474.1	476.0	478.5	481.3	12.5°
15°	428.6	433.1	439.8	445.1	453.2	459.3	467.4	475.5	482.7	489.7	497.7	15°
17.5°	411.9	413.9	419.2	426.4	433.6	442.8	452.6	467.1	480.2	494.4	510.0	17.5°
20°	381.0	384.3	387.9	396.6	405.2	418.3	430.3	449.3	468.5	490.8	514.7	20°
22.5°	342.8	346.1	350.0	359.8	370.4	383.8	398.3	419.4	445.1	474.1	506.1	22.5°
25°	301.5	303.5	306.6	316.3	322.7	340.3	357.8	379.9	407.7	445.1	482.4	25°
27.5°	256.1	259.7	262.3	266.7	281.5	296.5	314.9	338.6	372.3	410.5	455.7	27.5°
30°	212.6	215.7	214.3	223.8	233.5	249.4	269.2	295.4	327.7	373.2	425.3	30°
32.5°	170.0	172.2	171.4	178.1	187.8	203.7	222.4	250.8	285.1	333.6	390.2	32.5°
35°	140.2	140.7	143.8	146.9	155.2	168.1	183.9	208.7	243.9	288.4	348.4	35°
37.5°	126.2	127.4	129.3	133.5	139.6	148.8	161.9	181.2	211.3	250.5	304.1	37.5°
40°	122.1	122.9	124.0	126.8	132.7	140.7	152.4	168.6	190.6	223.8	267.3	40°
42.5°	120.1	120.1	120.1	121.8	126.2	134.9	148.3	164.2	183.4	208.5	243.6	42.5°
45°	117.3	117.3	117.1	117.9	121.0	129.6	144.1	161.9	182.5	206.5	236.9	45°
47.5°	114.3	114.0	113.1	113.1	115.1	123.7	138.8	158.0	180.6	208.2	240.8	47.5°
50°	105.9	105.9	105.9	106.7	108.4	116.2	132.4	152.7	178.6	209.3	246.9	50°
52.5°	101.2	101.4	102.3	102.3	104.0	112.0	129.0	151.6	179.8	213.5	254.7	52.5°
55°	98.9	99.8	100.6	100.6	102.0	110.4	127.9	152.4	183.9	222.1	268.1	55°
57.5°	97.0	97.8	98.4	98.4	99.5	106.7	124.9	151.1	186.4	230.5	284.5	57.5°
60°	93.4	93.9	94.2	94.2	94.5	100.6	117.9	144.4	180.9	229.9	293.5	60°
62.5°	86.7	87.8	88.1	88.3	88.3	94.2	109.0	133.5	168.9	221.6	291.0	62.5°
65°	81.7	82.2	83.1	83.6	84.7	88.6	100.3	120.4	153.3	204.8	277.0	65°
67.5°	73.9	74.7	75.5	76.6	77.8	80.3	89.5	105.6	132.1	176.4	245.8	67.5°
70°	66.9	67.2	68.0	69.4	69.7	71.1	77.8	88.9	108.1	141.6	197.9	70°
72.5°	58.2	58.8	59.9	61.6	61.6	62.7	66.6	72.5	84.7	108.1	146.0	72.5°
75°	50.7	51.3	52.1	52.1	50.7	51.0	53.8	58.0	67.2	81.4	106.5	75°
77.5°	42.1	43.2	44.0	42.4	41.8	42.6	44.0	47.1	53.8	64.7	80.0	77.5°
80°	34.8	35.4	35.7	36.0	35.4	36.2	37.3	39.3	43.8	52.1	63.3	80°
82.5°	27.9	28.4	29.3	30.4	30.4	33.4	33.7	33.7	36.2	41.5	49.6	82.5°
85°	20.6	21.7	22.9	24.2	24.5	26.2	25.4	25.1	25.9	30.9	34.3	85°
87.5°	10.6	11.4	12.0	13.1	11.7	12.3	12.3	11.4	10.0	12.5	13.9	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°



NUMBER: P158753

NUMBER: VTS-F02-LED-E1-SLL-8030

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
465.7	465.7	465.7	465.7	465.7	465.7	465.7
463.5	462.9	463.5	463.5	464.3	463.7	493.3
465.7	465.1	465.7	466.3	467.1	467.1	499.7
466.0	466.0	465.4	466.8	467.9	469.0	505.8
469.3	469.3	469.9	470.2	472.7	475.5	515.9
483.0	484.4	486.9	487.7	492.2	495.2	541.5
503.9	511.7	516.7	518.4	522.3	528.1	584.7
525.1	538.2	551.8	560.2	565.2	572.2	637.7
540.9	565.5	588.9	609.8	621.8	635.4	711.8
542.3	581.4	620.9	659.7	691.7	717.1	812.1
529.0	580.2	634.9	694.2	749.4	795.1	927.5
512.0	574.9	644.6	720.4	792.9	860.3	1012.5
490.5	566.0	646.3	731.6	816.6	897.7	1061.0
457.9	539.6	626.2	720.4	819.1	917.7	1092.2
416.1	499.4	588.3	695.6	807.4	925.8	1118.4
373.5	455.7	551.3	662.5	788.7	924.4	1129.0
328.3	410.0	507.8	627.1	763.3	911.6	1127.0
297.6	372.1	467.9	591.1	735.2	894.6	1113.9
279.8	345.0	436.4	558.2	709.6	874.3	1097.5
279.5	336.9	419.7	534.8	683.6	851.7	1075.2
289.3	342.0	417.8	524.8	669.4	835.2	1051.0
300.7	355.9	428.1	528.4	669.1	828.0	1034.0
318.8	379.6	450.6	544.0	676.4	826.9	1013.1
342.0	411.6	491.3	582.5	704.5	848.9	1014.4
365.6	449.3	544.6	648.2	760.0	900.2	1058.5
374.3	478.2	598.6	725.4	843.1	977.1	1149.3
366.8	484.9	631.5	785.4	923.9	1067.1	1257.7
338.9	457.9	618.1	802.4	970.4	1130.9	1366.2
279.0	390.7	557.4	764.2	966.8	1144.0	1405.2
204.6	302.9	453.2	649.4	859.5	1062.1	1346.7
147.7	214.3	327.2	489.1	679.5	855.3	1129.5
105.9	148.5	212.4	321.3	462.9	595.6	805.1
76.1	100.9	132.4	192.9	282.0	365.6	505.8
56.0	69.1	87.0	119.8	166.1	212.9	304.6
38.2	40.7	52.4	70.8	109.0	156.6	206.8
14.5	16.4	19.2	29.0	48.8	56.0	39.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)