

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: P157334

Luminaire Tested: **VST-F03-LED-E-U-5MQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157334
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33708)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F03-LED-E-U-5MQ-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7235.7 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

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: 28.75 FT

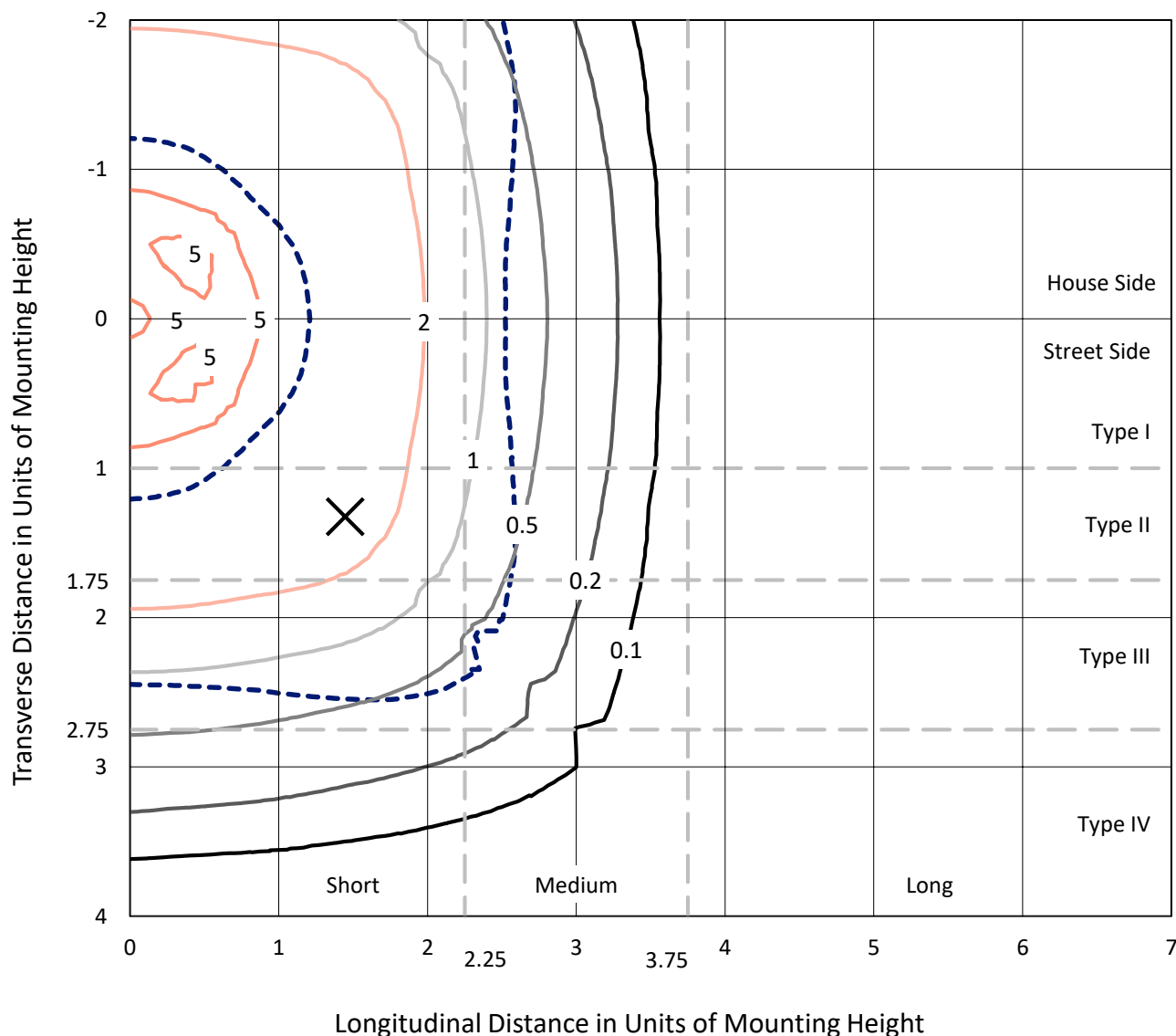


REPORT NUMBER: P157334

CATALOG NUMBER: VST-F03-LED-E-U-5MQ-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

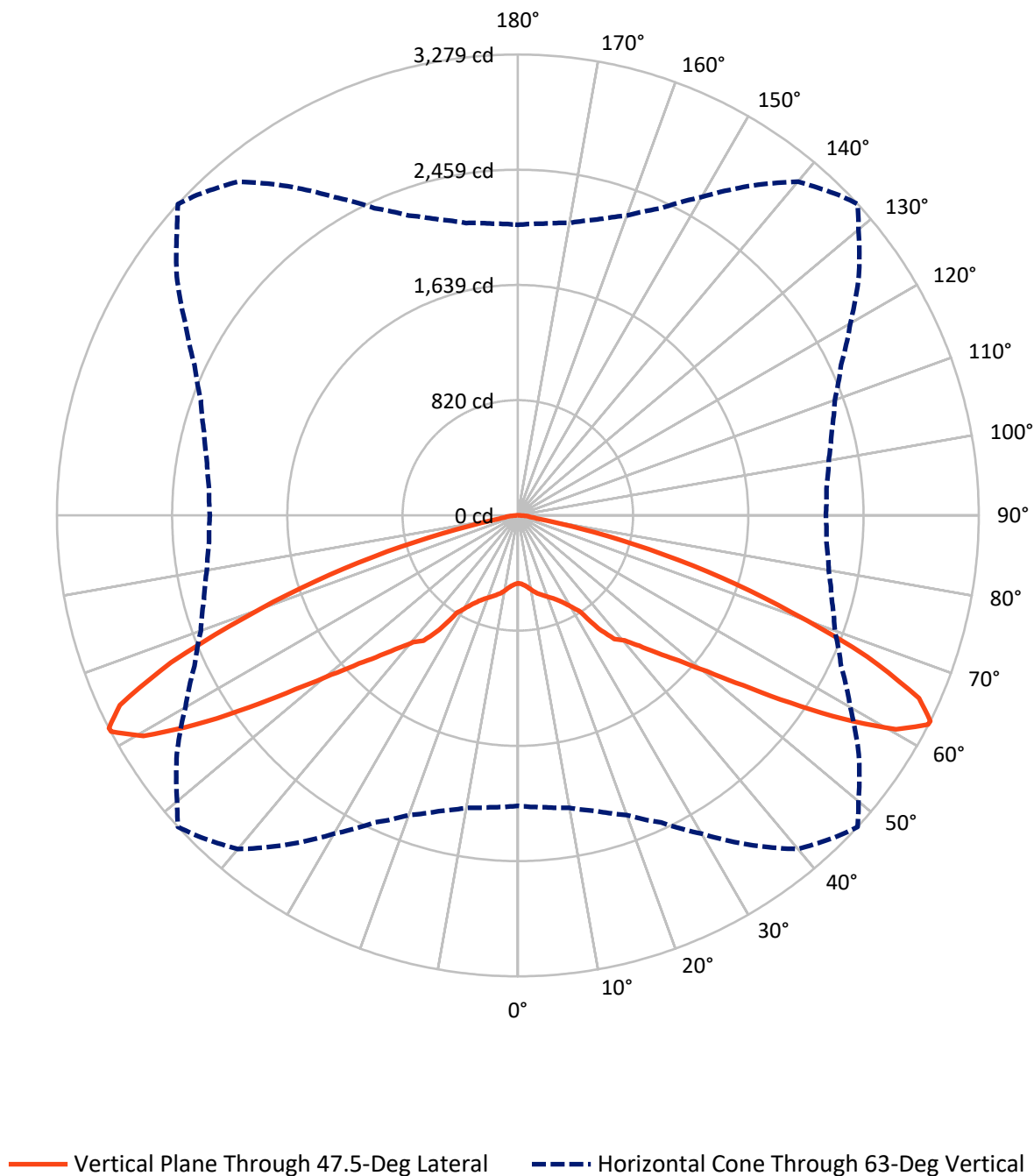


Based on 10 foot mounting height. Maximum calculated value = 5.3 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P157334

CATALOG NUMBER: VST-F03-LED-E-U-5MQ-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P157334

CATALOG NUMBER: VST-F03-LED-E-U-5MQ-7030

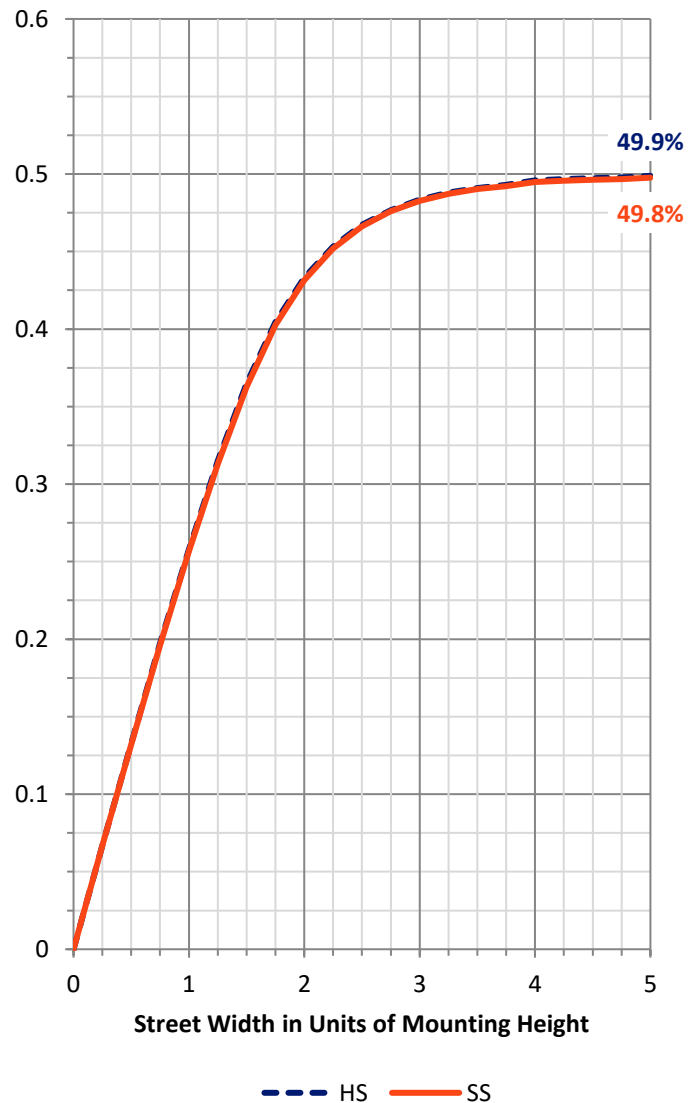
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3617.9	0.0	3617.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3617.9	0.0	3617.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	7235.7	0.0	7235.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	0.7
10°-20°	164.9	2.3
20°-30°	315.4	4.4
30°-40°	603.3	8.3
40°-50°	1043.9	14.4
50°-60°	1874.9	25.9
60°-70°	2279.9	31.5
70°-80°	823.4	11.4
80°-90°	81.5	1.1
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°	7235.7	100.0
0°-180°	7235.7	100.0

Coefficient of Utilization



REPORT NUMBER: P157334

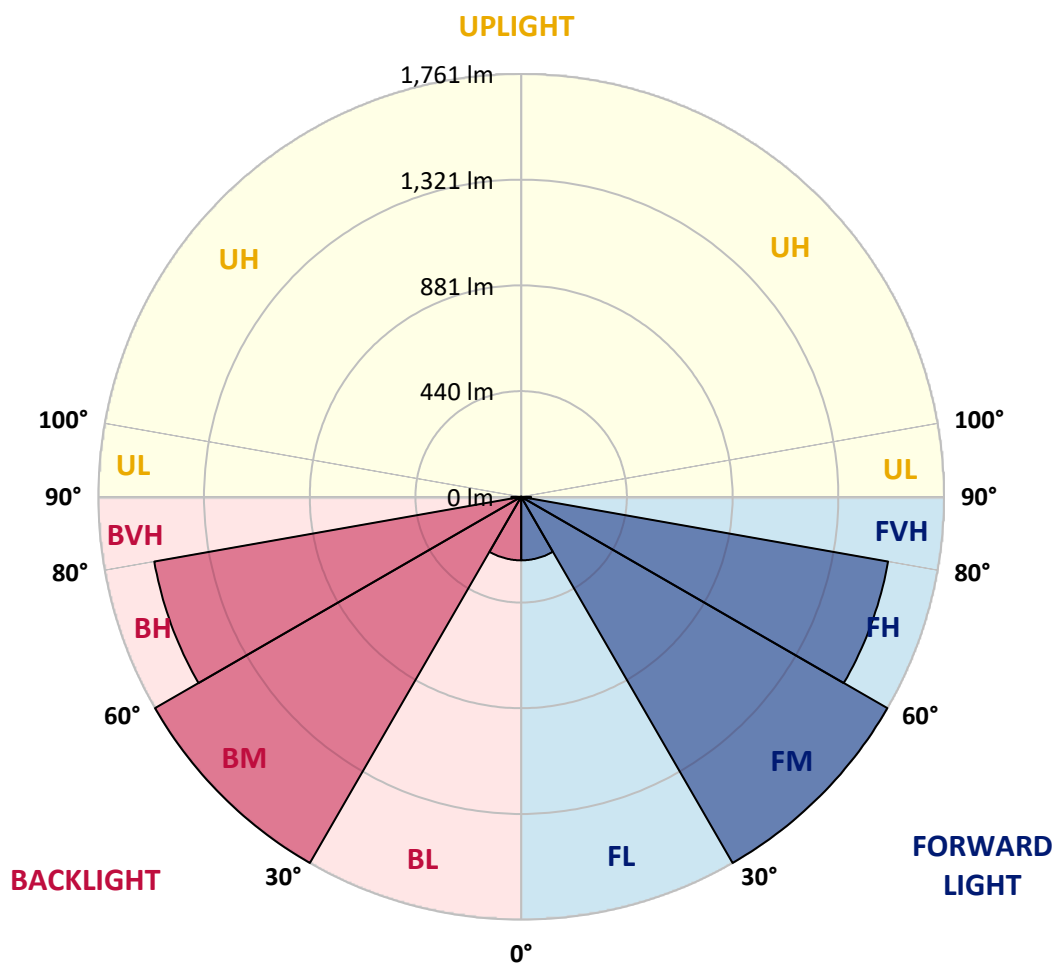
CATALOG NUMBER: VST-F03-LED-E-U-5MQ-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	264.4	3.7			
FM	(30°-60°)	1761.1	24.3			
FH	(60°-80°)	1551.6	21.4			G1/1800
FVH	(80°-90°)	40.8	0.6			G1/100
BL	(0°-30°)	264.4	3.7	B1/500		
BM	(30°-60°)	1761.1	24.3	B2/2500		
BH	(60°-80°)	1551.6	21.4	B3/2500		G1/1800
BVH	(80°-90°)	40.8	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





REPORT NUMBER: P157334

CATALOG NUMBER: VST-F03-LED-E-U-5MQ-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2
2.5°	486.3	485.4	485.9	486.3	485.9	485.4	485.4	485.4	486.3	485.4	487.7
5°	495.8	494.9	495.4	495.4	495.4	494.5	494.5	494.5	494.0	494.5	499.4
7.5°	513.9	512.6	512.1	513.0	512.1	511.7	511.2	511.2	510.3	510.3	516.7
10°	535.6	533.8	534.7	535.2	533.8	532.9	532.9	532.9	531.5	531.1	539.3
12.5°	559.6	558.7	558.7	557.8	557.3	556.4	556.0	556.4	554.6	554.6	562.8
15°	582.7	580.9	581.3	580.0	579.1	578.2	577.7	577.3	576.4	576.4	581.3
17.5°	604.0	602.6	602.2	600.8	599.4	598.1	597.2	596.7	595.4	595.4	599.9
20°	626.1	624.8	623.9	621.6	619.3	618.0	616.1	615.2	613.4	613.9	618.9
22.5°	651.5	649.2	647.4	645.5	641.5	638.8	636.5	634.7	633.8	633.8	640.6
25°	685.4	684.0	681.3	675.4	670.4	666.4	662.8	661.0	659.2	658.3	668.6
27.5°	727.0	725.6	722.0	716.2	709.4	702.6	698.5	695.3	693.1	691.7	706.6
30°	782.2	779.9	776.8	767.3	761.4	751.0	746.5	741.9	737.0	738.3	755.9
32.5°	890.3	887.2	877.2	866.8	848.7	834.7	820.2	809.3	799.0	797.6	816.6
35°	988.5	987.1	985.3	978.1	971.3	962.7	955.9	944.6	935.1	932.8	986.2
37.5°	1041.4	1044.6	1041.8	1040.9	1040.9	1045.0	1057.7	1070.3	1079.4	1084.9	1114.7
40°	1122.4	1122.4	1119.2	1117.4	1113.8	1119.2	1124.6	1134.2	1138.2	1138.7	1169.0
42.5°	1214.2	1214.7	1211.5	1206.1	1204.3	1209.2	1216.5	1225.6	1231.0	1232.3	1267.6
45°	1316.5	1315.1	1312.4	1310.6	1312.0	1316.5	1325.0	1342.7	1350.8	1357.2	1395.7
47.5°	1427.3	1436.3	1428.7	1430.0	1430.0	1444.0	1463.5	1478.0	1491.1	1503.3	1544.0
50°	1572.5	1573.9	1575.2	1579.3	1582.0	1600.6	1625.0	1642.2	1661.2	1677.1	1743.5
52.5°	1766.6	1763.9	1770.7	1775.2	1790.6	1800.5	1841.3	1862.9	1889.2	1909.6	2006.8
55°	1998.7	1997.3	2007.3	2010.9	2031.2	2055.7	2100.9	2148.4	2193.2	2218.1	2351.1
57.5°	2165.2	2168.8	2186.0	2210.0	2249.8	2301.8	2369.2	2474.2	2559.2	2586.4	2732.9
60°	2201.8	2213.6	2239.4	2287.3	2355.6	2452.4	2585.0	2745.6	2901.2	2953.3	3090.8
62.5°	2099.1	2112.7	2150.7	2208.1	2297.3	2440.7	2632.0	2858.7	3089.9	3205.7	3274.9
63°	2066.5	2083.3	2111.8	2178.3	2268.8	2410.4	2614.0	2858.2	3098.0	3224.2	3278.5
65°	1913.6	1916.8	1959.3	2025.8	2127.6	2274.7	2480.0	2762.3	3028.3	3174.0	3136.4
67.5°	1646.7	1659.8	1695.6	1762.6	1861.6	2014.5	2237.6	2498.6	2732.5	2848.7	2680.9
70°	1330.5	1329.6	1373.9	1427.8	1515.1	1649.5	1844.9	2080.6	2266.1	2350.7	2069.7
72.5°	950.5	926.9	959.5	1019.2	1090.7	1198.0	1352.6	1535.9	1701.9	1775.2	1513.3
75°	433.0	426.6	455.6	514.8	587.2	682.7	809.8	968.1	1127.4	1213.3	964.1
77.5°	145.7	147.5	158.8	180.1	218.9	266.9	346.1	447.4	576.4	661.4	452.4
80°	97.7	100.4	104.0	107.2	111.7	119.0	136.2	162.4	202.2	244.7	143.0
82.5°	80.1	83.2	91.4	95.0	97.7	100.0	101.3	103.1	103.1	104.0	90.5
85°	57.5	62.9	73.7	80.5	83.2	85.1	87.3	90.0	86.0	82.3	70.1
87.5°	19.9	27.1	39.8	43.9	47.0	47.5	50.6	56.1	53.4	43.4	21.2
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: P157334

CATALOG NUMBER: VST-F03-LED-E-U-5MQ-7030

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2
2.5°	485.4	485.0	485.4	485.9	485.9	485.9	486.3	486.8	486.8
5°	494.5	494.9	494.5	494.9	494.9	495.4	495.4	496.3	496.3
7.5°	509.9	510.8	510.3	511.2	511.2	512.1	511.7	513.0	513.0
10°	530.6	531.5	532.5	532.9	532.5	533.4	534.3	534.7	534.3
12.5°	554.2	554.6	554.2	555.1	555.1	556.0	556.0	557.3	557.3
15°	575.9	575.5	575.0	576.4	577.3	577.7	578.6	580.0	578.6
17.5°	595.4	595.8	594.9	596.3	598.1	599.4	600.3	602.2	601.7
20°	614.8	613.9	614.8	617.0	618.9	620.7	622.5	625.2	624.8
22.5°	633.8	634.7	637.0	638.8	641.9	644.6	646.9	650.5	651.9
25°	660.5	660.5	664.1	666.4	670.9	674.5	679.5	683.6	685.9
27.5°	694.4	694.4	698.5	703.5	710.3	716.6	722.0	727.4	726.5
30°	740.6	742.9	746.5	752.8	761.8	769.5	776.8	782.2	782.6
32.5°	801.2	803.9	814.7	831.1	850.1	864.5	875.4	888.5	890.3
35°	938.7	945.5	959.5	972.7	980.3	988.9	994.4	994.8	995.7
37.5°	1083.5	1071.7	1060.9	1050.9	1046.4	1045.5	1045.5	1047.3	1048.2
40°	1136.4	1130.5	1125.5	1119.2	1121.0	1120.6	1123.7	1126.4	1128.3
42.5°	1226.9	1222.4	1217.9	1209.7	1214.2	1212.9	1217.4	1221.5	1223.8
45°	1353.1	1339.1	1329.1	1316.0	1320.5	1317.8	1317.8	1322.8	1323.7
47.5°	1492.4	1476.2	1455.8	1439.5	1434.1	1429.1	1433.6	1433.6	1428.7
50°	1659.4	1639.9	1616.0	1589.7	1580.7	1575.7	1577.5	1579.7	1565.8
52.5°	1886.0	1864.3	1830.4	1790.6	1782.0	1777.9	1777.0	1773.8	1770.2
55°	2193.2	2152.5	2110.9	2058.4	2042.6	2038.0	2038.5	2034.9	2043.5
57.5°	2555.6	2495.9	2399.9	2336.2	2298.2	2283.7	2270.6	2265.1	2265.6
60°	2914.3	2792.6	2649.2	2537.9	2458.3	2407.7	2367.8	2345.7	2339.3
62.5°	3145.5	2954.2	2738.8	2558.3	2427.5	2343.8	2281.0	2241.2	2228.5
63°	3163.6	2960.9	2730.7	2537.0	2399.5	2311.7	2245.7	2204.5	2191.0
65°	3124.3	2892.6	2624.3	2393.6	2243.0	2145.7	2074.3	2035.3	2024.9
67.5°	2818.4	2625.7	2352.5	2114.0	1962.1	1863.4	1781.5	1744.4	1732.7
70°	2292.7	2160.7	1936.7	1733.1	1591.5	1496.5	1413.7	1383.0	1382.5
72.5°	1699.7	1528.2	1394.8	1245.4	1121.9	1046.4	974.5	940.1	922.9
75°	1124.2	940.6	791.2	665.5	542.4	474.5	393.6	358.7	338.4
77.5°	566.4	419.8	300.8	208.6	161.9	133.0	121.7	115.8	115.4
80°	188.6	141.6	121.7	114.0	111.7	112.2	110.8	108.6	105.8
82.5°	104.5	109.9	110.8	107.7	107.7	105.8	104.0	95.5	91.0
85°	89.6	98.6	99.5	97.7	97.3	94.6	91.4	79.6	72.8
87.5°	56.1	64.7	63.4	56.5	62.5	58.4	55.2	35.8	26.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)