

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: P157779

Luminaire Tested: **VST-E04-LED-E-U-5XQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157779
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33710)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E04-LED-E-U-5XQ-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11554.2 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U1 - G3

Input Watts (W): 97.2
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

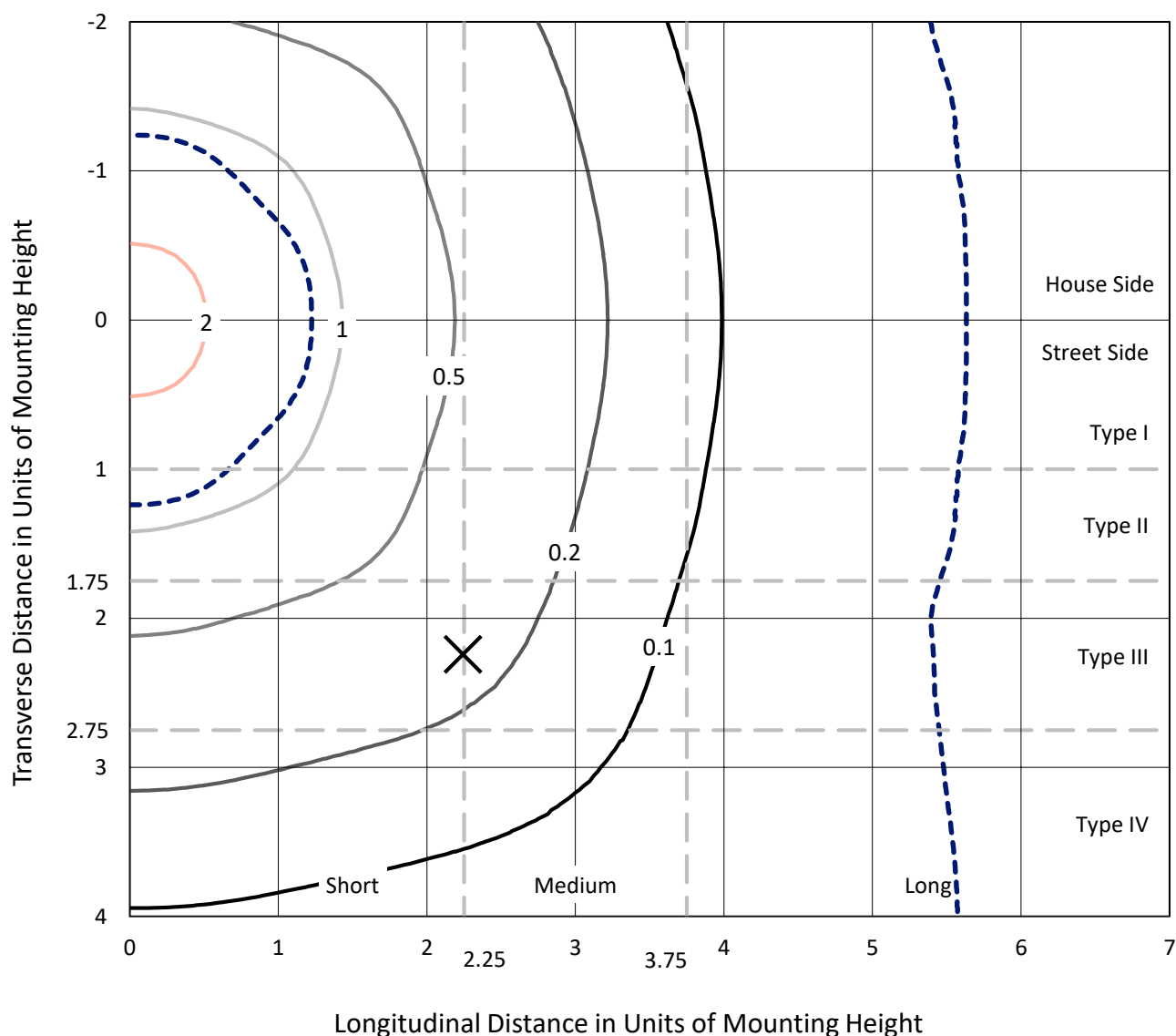


REPORT NUMBER: P157779

CATALOG NUMBER: VST-E04-LED-E-U-5XQ-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

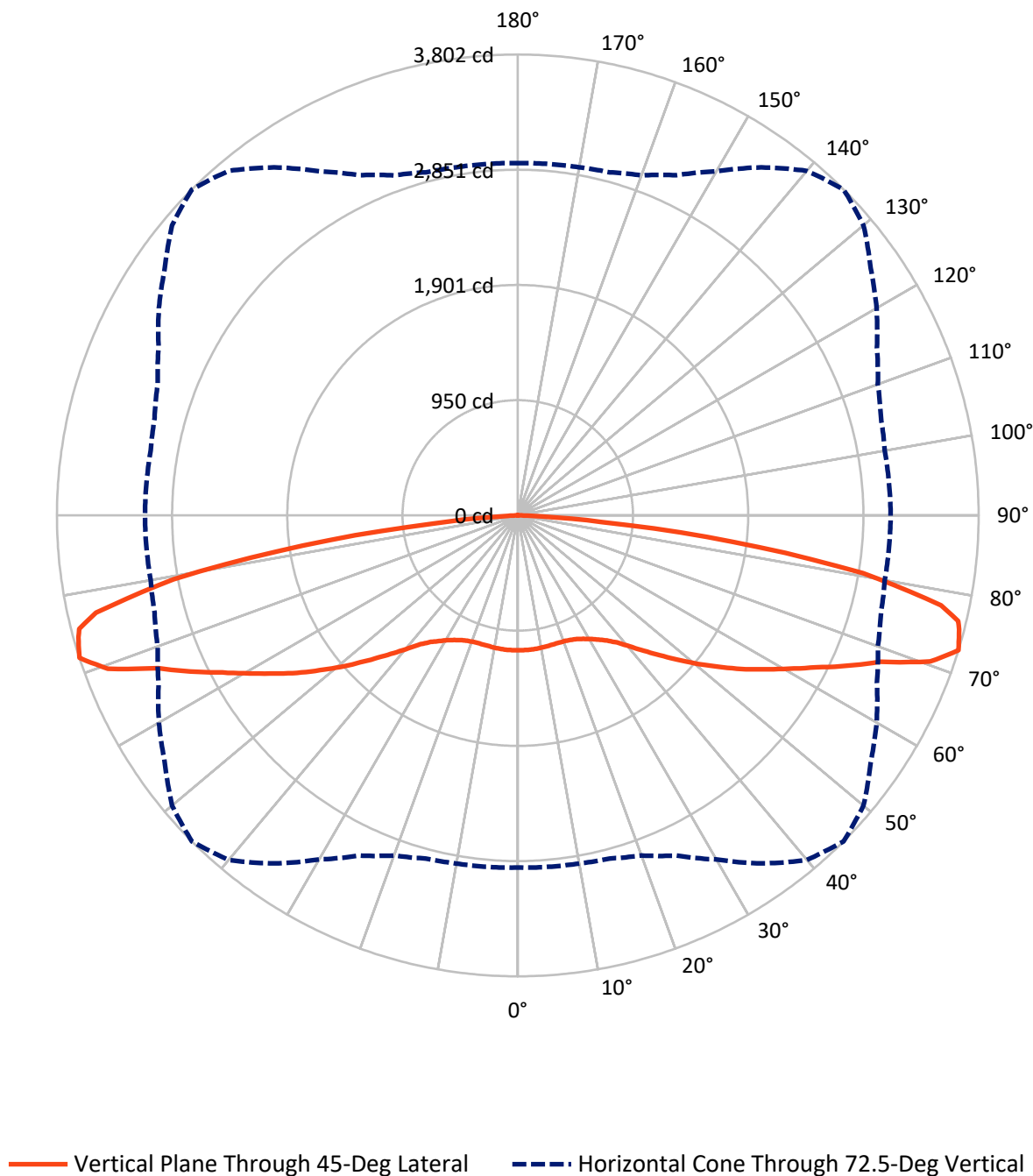


Based on 20 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - Non-Cutoff

REPORT NUMBER: P157779

CATALOG NUMBER: VST-E04-LED-E-U-5XQ-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P157779

CATALOG NUMBER: VST-E04-LED-E-U-5XQ-7030

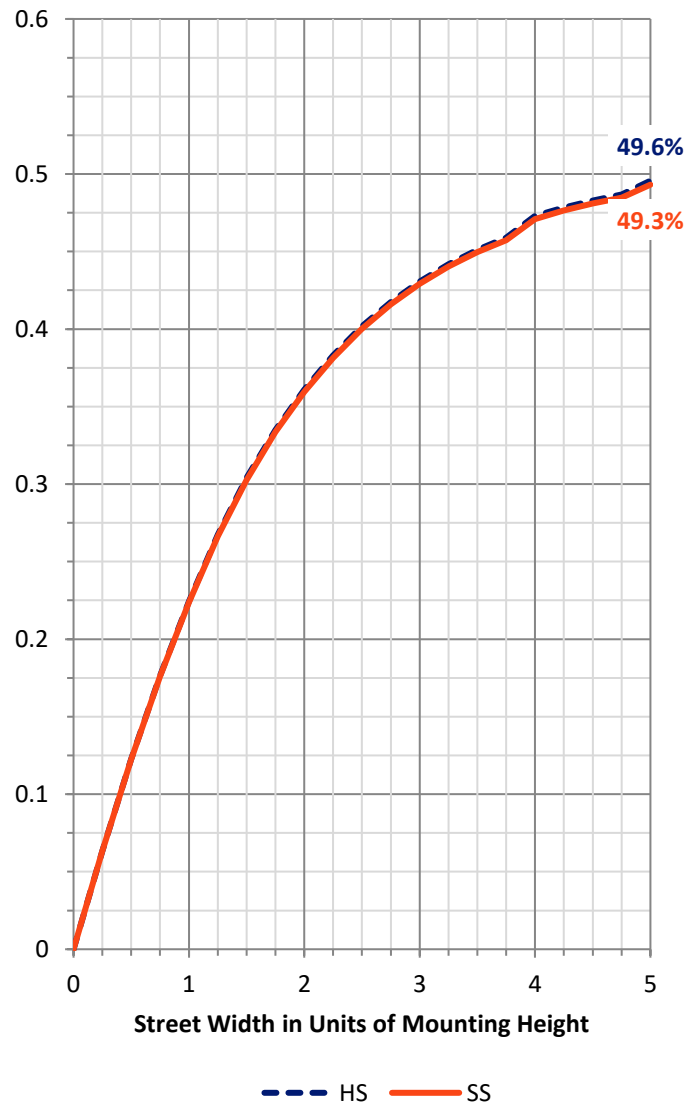
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5774.3	2.8	5777.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5774.3	2.8	5777.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	11548.5	5.6	11554.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.1	0.9
10°-20°	313.4	2.7
20°-30°	524.0	4.5
30°-40°	796.5	6.9
40°-50°	1261.5	10.9
50°-60°	1929.7	16.7
60°-70°	2761.7	23.9
70°-80°	3160.0	27.3
80°-90°	695.5	6.0
90°-100°	0.6	0.0
100°-110°	1.2	0.0
110°-120°	0.8	0.0
120°-130°	0.9	0.0
130°-140°	0.8	0.0
140°-150°	0.7	0.0
150°-160°	0.4	0.0
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-90°	11548.5	100.0
0°-180°	11554.2	100.0

Coefficient of Utilization



REPORT NUMBER: P157779

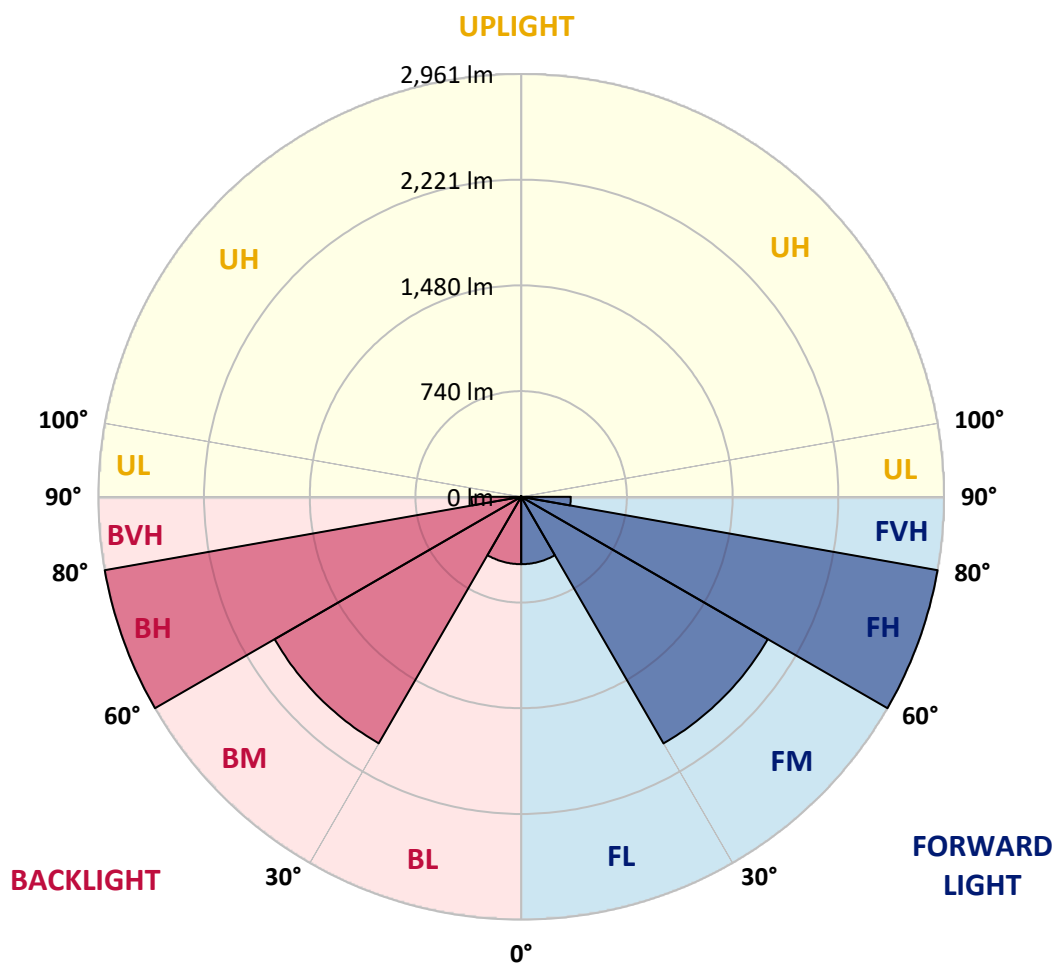
CATALOG NUMBER: VST-E04-LED-E-U-5XQ-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	471.8	4.1			
FM	(30°-60°)	1993.9	17.3			
FH	(60°-80°)	2960.9	25.6			G2/5000
FVH	(80°-90°)	347.7	3.0			G3/500
BL	(0°-30°)	471.8	4.1	B1/500		
BM	(30°-60°)	1993.9	17.3	B2/2500		
BH	(60°-80°)	2960.9	25.6	B4/5000		G2/5000
BVH	(80°-90°)	347.7	3.0			G3/500
UL	(90°-100°)	0.6	0.0		U1/10	
UH	(100°-180°)	2.8	0.0		U1/10	

BUG Rating: B4-U1-G3

Type V Short





REPORT NUMBER: P157779

CATALOG NUMBER: VST-E04-LED-E-U-5XQ-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1112.1	1112.1	1112.1	1112.1	1112.1	1112.1	1112.1	1112.1	1112.1	1112.1	1112.1
2.5°	1112.8	1111.4	1112.1	1113.6	1112.8	1112.8	1112.1	1112.1	1113.6	1112.1	1112.8
5°	1113.6	1112.1	1112.8	1113.6	1112.8	1113.6	1112.8	1112.8	1112.8	1112.1	1113.6
7.5°	1110.6	1110.6	1111.4	1111.4	1110.6	1111.4	1111.4	1111.4	1110.6	1110.6	1112.1
10°	1109.2	1108.4	1108.4	1109.2	1108.4	1108.4	1109.2	1109.2	1107.7	1107.7	1109.2
12.5°	1107.0	1106.2	1106.2	1106.2	1105.5	1105.5	1106.2	1106.2	1105.5	1104.8	1107.0
15°	1105.5	1104.8	1104.8	1104.8	1103.3	1104.1	1104.1	1104.1	1103.3	1102.6	1104.8
17.5°	1104.8	1104.1	1104.1	1104.1	1103.3	1103.3	1103.3	1103.3	1102.6	1102.6	1104.1
20°	1106.2	1106.2	1106.2	1106.2	1105.5	1105.5	1105.5	1106.2	1106.2	1106.2	1107.7
22.5°	1109.9	1109.9	1110.6	1111.4	1111.4	1112.8	1113.6	1114.3	1114.3	1115.0	1116.5
25°	1119.4	1119.4	1120.1	1120.9	1123.1	1124.5	1127.4	1128.9	1129.6	1129.6	1130.4
27.5°	1136.9	1137.7	1139.1	1140.6	1143.5	1145.7	1148.6	1151.6	1152.3	1153.0	1153.7
30°	1158.9	1159.6	1162.5	1164.0	1167.6	1172.0	1175.7	1178.6	1180.8	1182.2	1181.5
32.5°	1190.3	1191.7	1195.4	1197.6	1202.7	1207.1	1212.2	1216.6	1218.8	1221.0	1220.2
35°	1234.1	1237.8	1241.4	1243.6	1248.7	1252.4	1259.0	1263.3	1267.7	1266.3	1267.0
37.5°	1299.1	1302.1	1302.8	1304.3	1309.4	1312.3	1319.6	1325.5	1327.6	1329.1	1329.8
40°	1386.8	1386.8	1390.5	1387.6	1394.1	1394.9	1403.6	1411.7	1413.9	1419.7	1415.3
42.5°	1489.1	1488.4	1490.6	1488.4	1488.4	1495.7	1503.0	1517.6	1519.1	1526.4	1522.0
45°	1600.2	1600.2	1598.0	1598.7	1600.2	1608.2	1617.0	1633.1	1640.4	1644.8	1641.8
47.5°	1720.8	1717.8	1717.1	1716.4	1720.8	1729.5	1742.7	1758.0	1776.3	1777.7	1776.3
50°	1842.8	1842.0	1836.9	1841.3	1844.2	1848.6	1873.5	1893.9	1912.9	1924.6	1921.0
52.5°	1971.4	1964.8	1964.8	1964.8	1972.1	1986.0	2007.9	2035.7	2061.2	2073.7	2071.5
55°	2101.4	2099.2	2092.7	2089.7	2099.2	2119.0	2150.4	2184.0	2217.6	2236.6	2229.3
57.5°	2220.5	2216.9	2217.6	2218.3	2229.3	2255.6	2292.1	2336.7	2373.2	2393.7	2388.6
60°	2314.1	2309.7	2317.7	2319.9	2339.6	2383.5	2441.9	2498.2	2546.4	2566.9	2558.8
62.5°	2420.0	2417.1	2422.2	2421.5	2442.7	2491.6	2569.8	2659.7	2732.7	2759.0	2747.4
65°	2591.0	2582.2	2580.0	2572.0	2585.9	2623.9	2702.1	2806.5	2923.5	2990.7	2974.6
67.5°	2795.6	2793.4	2786.1	2781.7	2786.8	2834.3	2909.6	3010.4	3129.5	3222.3	3242.8
70°	2930.8	2933.7	2941.0	2951.9	2994.3	3086.4	3223.8	3376.5	3540.1	3609.6	3597.1
72.5°	2905.2	2909.6	2915.4	2929.3	2984.8	3095.2	3276.4	3504.3	3709.7	3801.7	3722.8
75°	2780.2	2783.9	2797.0	2818.2	2886.2	3019.9	3215.0	3456.8	3668.7	3760.8	3678.2
76°	2664.8	2676.5	2700.6	2725.4	2807.3	2952.7	3160.9	3418.9	3643.2	3736.7	3657.1
77.5°	2403.2	2413.4	2433.2	2476.3	2569.1	2755.4	2998.7	3252.3	3486.1	3570.1	3502.9
80°	1808.4	1817.2	1835.5	1887.3	1967.7	2083.2	2271.7	2519.4	2775.9	2886.2	2842.3
82.5°	763.6	773.8	846.1	921.4	1009.8	1134.7	1257.5	1476.7	1665.2	1790.9	1723.7
85°	84.0	103.8	127.9	173.9	213.4	284.2	353.6	486.6	615.2	693.4	613.0
87.5°	14.6	16.8	24.1	30.7	34.3	39.5	47.5	66.5	90.6	78.2	79.6
90°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	1.5	1.5	1.5	1.5
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7
97.5°	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
100°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5	1.5
102.5°	0.7	0.7	0.7	0.7	0.7	1.5	1.5	1.5	1.5	1.5	1.5
105°	0.7	0.7	0.7	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
107.5°	0.7	0.7	0.7	0.7	1.5	1.5	0.7	0.7	0.7	1.5	0.7



REPORT NUMBER: P157779

CATALOG NUMBER: VST-E04-LED-E-U-5XQ-7030

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
112.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
115°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
117.5°	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
120°	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
122.5°	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7
125°	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7
127.5°	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7
130°	1.5	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7	0.7
132.5°	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7
135°	1.5	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7	0.7
137.5°	1.5	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7	0.7
140°	1.5	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7	0.7
142.5°	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7
145°	1.5	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.0	0.7
147.5°	1.5	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7	0.7
150°	1.5	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.0	0.0	0.0
152.5°	1.5	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.0	0.0
155°	1.5	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.0	0.7
157.5°	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.0	0.0	0.0
160°	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.0	0.0	0.0
162.5°	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.0	0.0	0.0
165°	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P157779

CATALOG NUMBER: VST-E04-LED-E-U-5XQ-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1112.1	1112.1	1112.1	1112.1	1112.1	1112.1	1112.1	1112.1
2.5°	1112.1	1112.1	1113.6	1112.8	1112.8	1113.6	1115.0	1114.3
5°	1112.8	1113.6	1112.1	1112.8	1113.6	1113.6	1114.3	1113.6
7.5°	1111.4	1111.4	1111.4	1112.1	1112.8	1112.1	1112.8	1112.8
10°	1108.4	1109.2	1108.4	1109.9	1110.6	1110.6	1111.4	1111.4
12.5°	1106.2	1106.2	1106.2	1107.7	1108.4	1108.4	1109.2	1108.4
15°	1104.1	1104.1	1103.3	1104.8	1106.2	1106.2	1107.0	1107.0
17.5°	1103.3	1103.3	1102.6	1104.1	1105.5	1105.5	1106.2	1106.2
20°	1105.5	1106.2	1104.8	1106.2	1107.7	1108.4	1108.4	1108.4
22.5°	1114.3	1113.6	1111.4	1112.1	1112.8	1112.8	1112.8	1112.8
25°	1127.4	1126.0	1123.8	1123.1	1122.3	1121.6	1121.6	1121.6
27.5°	1150.1	1147.9	1144.2	1143.5	1142.8	1141.3	1141.3	1141.3
30°	1177.1	1174.2	1169.8	1168.4	1166.2	1164.7	1164.0	1163.2
32.5°	1215.9	1210.0	1204.9	1201.2	1199.0	1194.7	1193.9	1192.5
35°	1260.4	1256.0	1248.7	1246.5	1242.9	1240.7	1240.0	1236.3
37.5°	1321.8	1316.7	1310.1	1308.6	1307.9	1305.7	1305.7	1305.0
40°	1407.3	1402.2	1396.3	1390.5	1391.9	1392.7	1392.7	1389.8
42.5°	1511.8	1503.7	1492.0	1495.7	1493.5	1490.6	1496.4	1492.8
45°	1630.9	1619.9	1611.2	1607.5	1607.5	1603.8	1609.7	1609.7
47.5°	1763.1	1745.6	1729.5	1730.3	1724.4	1725.9	1729.5	1734.6
50°	1902.7	1879.3	1864.0	1856.7	1850.8	1853.0	1859.6	1861.0
52.5°	2047.4	2018.9	1998.4	1987.5	1980.1	1983.1	1988.2	1992.6
55°	2197.9	2166.5	2135.8	2124.1	2115.3	2121.2	2121.9	2127.7
57.5°	2355.0	2311.9	2276.1	2258.5	2249.8	2255.6	2260.0	2265.8
60°	2513.5	2463.9	2421.5	2401.0	2388.6	2396.6	2406.9	2409.8
62.5°	2697.7	2629.0	2581.5	2552.3	2546.4	2554.5	2557.4	2566.1
65°	2915.4	2832.8	2767.1	2731.3	2729.8	2734.2	2740.8	2743.0
67.5°	3163.8	3071.8	2983.4	2947.6	2933.7	2946.8	2953.4	2962.2
70°	3514.6	3388.2	3260.3	3180.7	3147.0	3136.8	3139.7	3149.2
72.5°	3554.0	3418.1	3269.1	3160.9	3101.7	3074.7	3074.0	3075.4
75°	3467.8	3250.8	3145.6	3021.4	2937.3	2893.5	2887.6	2886.9
76°	3424.7	3168.2	3016.2	2917.6	2816.8	2772.2	2765.6	2762.0
77.5°	3242.8	2967.3	2738.6	2678.7	2582.2	2526.0	2537.7	2528.2
80°	2599.8	2326.5	2110.9	1942.1	1947.3	1906.3	1889.5	1884.4
82.5°	1532.2	1307.9	1069.7	930.2	797.2	762.1	656.2	632.0
85°	489.6	347.1	210.4	152.7	103.8	87.0	68.0	62.1
87.5°	65.0	51.1	41.6	40.2	36.5	31.4	20.5	14.6
90°	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0
97.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
100°	1.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7
102.5°	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7
105°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
107.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5



REPORT NUMBER: P157779

CATALOG NUMBER: VST-E04-LED-E-U-5XQ-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	0.7	0.7	0.7	0.7	0.7	1.5	1.5	1.5
112.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5
115°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5
117.5°	0.7	0.7	0.7	0.7	0.7	1.5	1.5	1.5
120°	0.7	0.7	0.7	0.7	0.7	1.5	1.5	1.5
122.5°	0.7	0.7	0.7	0.7	1.5	1.5	1.5	1.5
125°	0.7	0.7	0.7	0.7	1.5	1.5	1.5	1.5
127.5°	0.7	0.7	0.7	0.7	1.5	1.5	1.5	1.5
130°	0.7	0.7	0.7	1.5	1.5	1.5	1.5	1.5
132.5°	0.7	0.7	0.7	1.5	1.5	1.5	1.5	1.5
135°	0.7	0.7	0.7	1.5	1.5	1.5	1.5	1.5
137.5°	0.7	0.7	0.7	1.5	1.5	1.5	1.5	1.5
140°	0.7	0.7	0.7	1.5	1.5	1.5	1.5	1.5
142.5°	0.7	0.7	0.7	1.5	1.5	1.5	1.5	1.5
145°	0.7	0.7	0.7	0.7	1.5	1.5	1.5	1.5
147.5°	0.7	0.7	0.7	1.5	1.5	1.5	1.5	1.5
150°	0.7	0.7	0.7	0.7	1.5	1.5	1.5	1.5
152.5°	0.7	0.7	0.7	0.7	1.5	1.5	1.5	1.5
155°	0.7	0.7	0.7	1.5	1.5	1.5	1.5	1.5
157.5°	0.7	0.7	0.7	0.7	1.5	1.5	1.5	1.5
160°	0.7	0.7	0.7	0.7	1.5	1.5	1.5	1.5
162.5°	0.7	0.7	0.7	1.5	1.5	1.5	1.5	1.5
165°	0.7	0.7	0.7	1.5	1.5	1.5	1.5	1.5
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)