

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: P157670

Luminaire Tested: **VTS-E04-LED-E1-5XQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P157670  
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: MCGRAW-EDISON  
Catalog Number: VTS-E04-LED-E1-5XQ  
Description: VENTUS LED SITE LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (84) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

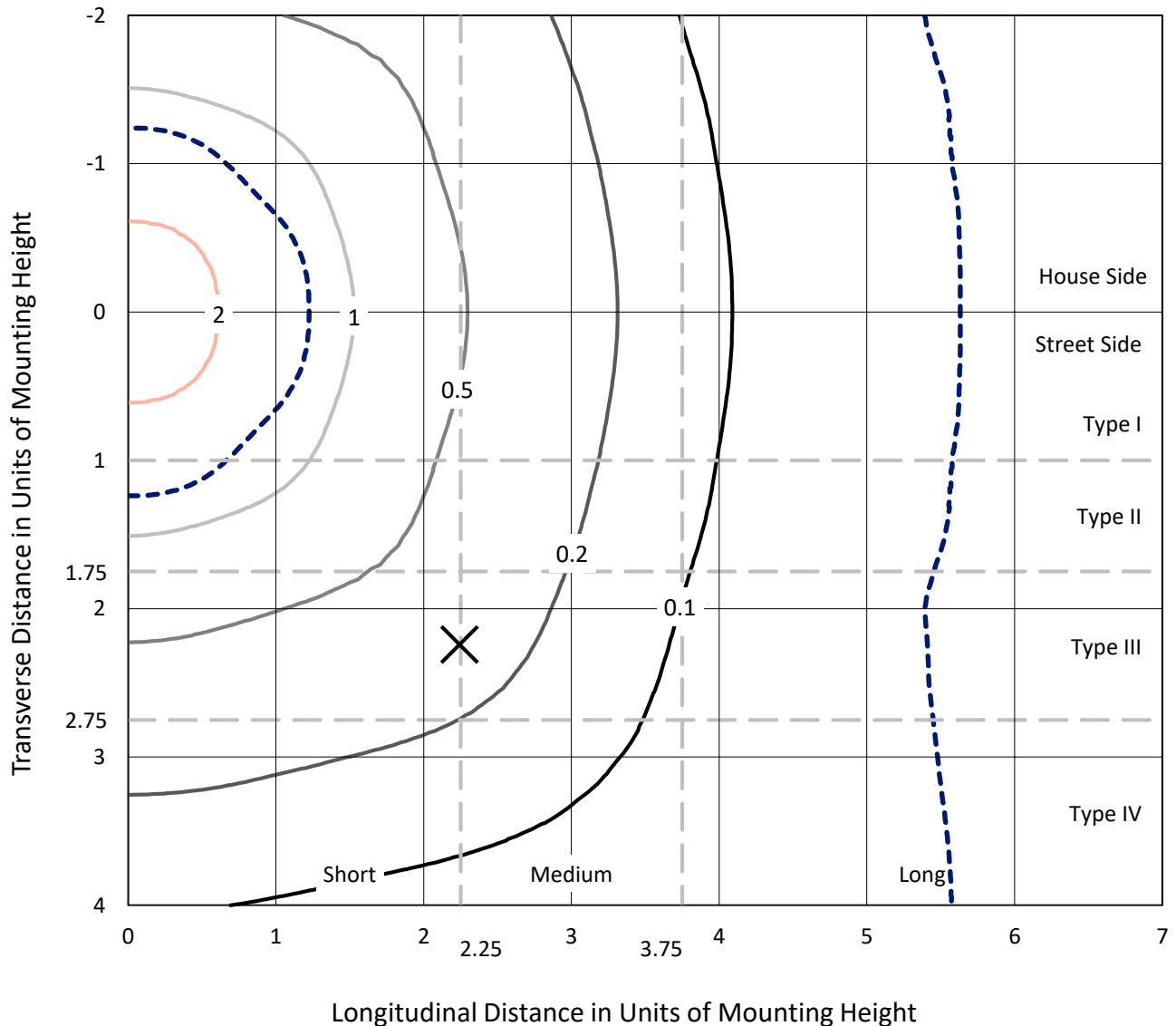
Lumens per Lamp: N/A  
Luminaire Lumens: 12650.3 lumens  
Efficiency: N/A  
Efficacy: 130.1 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B4 - U1 - G3  
  
Input Watts (W): 97.2  
Input Voltage (V): NR  
Input Current (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: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

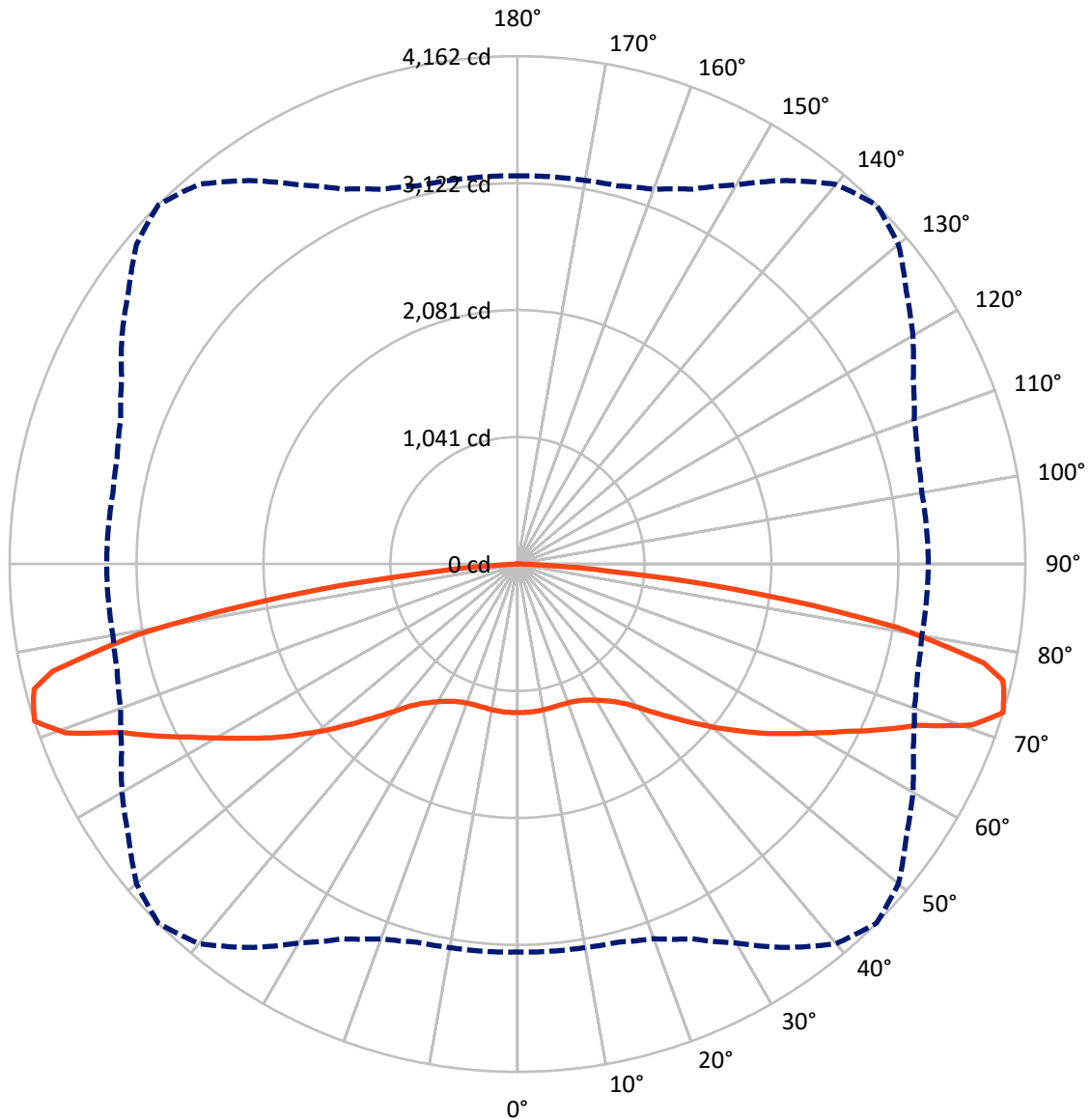
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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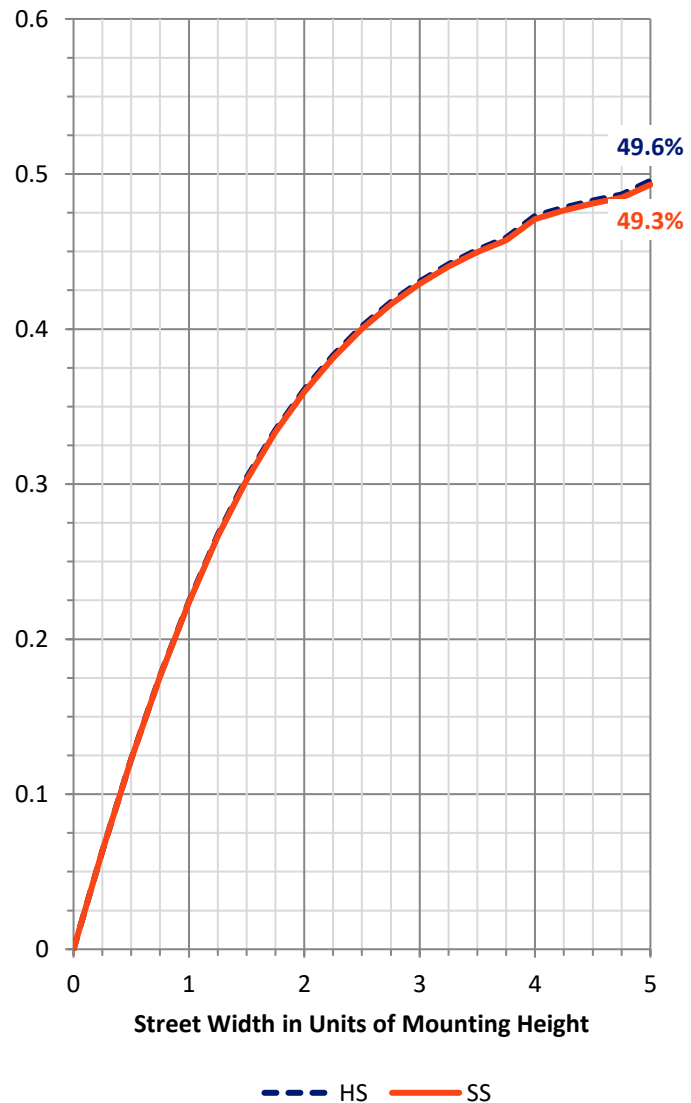
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6322.1	3.1	6325.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6322.1	3.1	6325.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12644.2	6.2	12650.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.2	0.9
10°-20°	343.1	2.7
20°-30°	573.8	4.5
30°-40°	872.1	6.9
40°-50°	1381.2	10.9
50°-60°	2112.8	16.7
60°-70°	3023.7	23.9
70°-80°	3459.8	27.3
80°-90°	761.5	6.0
90°-100°	0.6	0.0
100°-110°	1.3	0.0
110°-120°	0.9	0.0
120°-130°	1.0	0.0
130°-140°	0.9	0.0
140°-150°	0.7	0.0
150°-160°	0.5	0.0
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-90°	12644.2	100.0
0°-180°	12650.3	100.0



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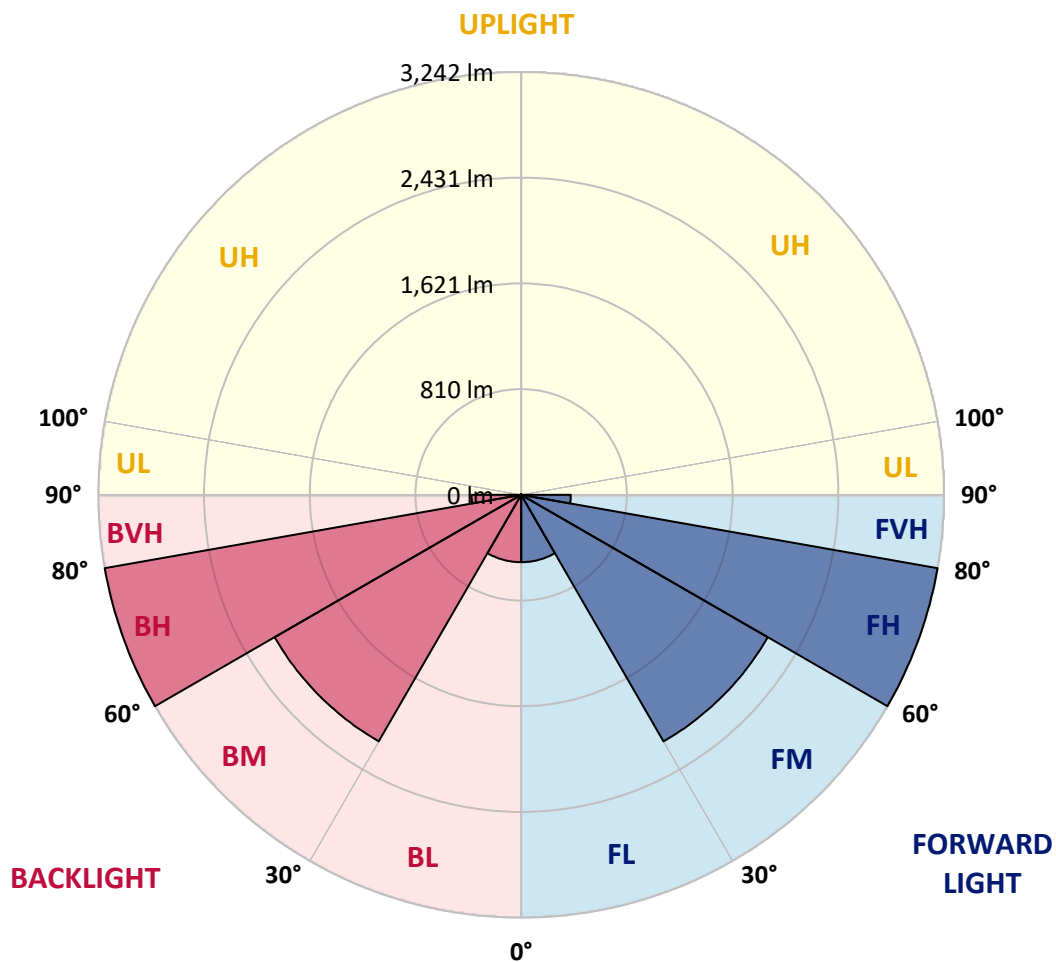
CATALOG NUMBER: VTS-E04-LED-E1-5XQ

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	516.5	4.1			
FM	(30°-60°)	2183.0	17.3			
FH	(60°-80°)	3241.8	25.6			G2/5000
FVH	(80°-90°)	380.7	3.0			G3/500
BL	(0°-30°)	516.5	4.1	B2/1000		
BM	(30°-60°)	2183.0	17.3	B2/2500		
BH	(60°-80°)	3241.8	25.6	B4/5000		G2/5000
BVH	(80°-90°)	380.7	3.0			G3/500
UL	(90°-100°)	0.6	0.0		U1/10	
UH	(100°-180°)	3.1	0.0		U1/10	

**BUG Rating: B4-U1-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1217.6	1217.6	1217.6	1217.6	1217.6	1217.6	1217.6	1217.6	1217.6	1217.6	1217.6
2.5°	1218.4	1216.8	1217.6	1219.2	1218.4	1218.4	1217.6	1217.6	1219.2	1217.6	1218.4
5°	1219.2	1217.6	1218.4	1219.2	1218.4	1219.2	1218.4	1218.4	1218.4	1217.6	1219.2
7.5°	1216.0	1216.0	1216.8	1216.8	1216.0	1216.8	1216.8	1216.8	1216.0	1216.0	1217.6
10°	1214.4	1213.6	1213.6	1214.4	1213.6	1213.6	1214.4	1214.4	1212.8	1212.8	1214.4
12.5°	1212.0	1211.2	1211.2	1211.2	1210.4	1210.4	1211.2	1211.2	1210.4	1209.6	1212.0
15°	1210.4	1209.6	1209.6	1209.6	1208.0	1208.8	1208.8	1208.8	1208.0	1207.2	1209.6
17.5°	1209.6	1208.8	1208.8	1208.8	1208.0	1208.0	1208.0	1208.0	1207.2	1207.2	1208.8
20°	1211.2	1211.2	1211.2	1211.2	1210.4	1210.4	1210.4	1211.2	1211.2	1211.2	1212.8
22.5°	1215.2	1215.2	1216.0	1216.8	1216.8	1218.4	1219.2	1220.0	1220.0	1220.8	1222.4
25°	1225.6	1225.6	1226.4	1227.2	1229.6	1231.2	1234.4	1236.0	1236.8	1236.8	1237.6
27.5°	1244.8	1245.6	1247.2	1248.8	1252.0	1254.4	1257.6	1260.8	1261.6	1262.4	1263.2
30°	1268.8	1269.6	1272.8	1274.4	1278.4	1283.2	1287.2	1290.4	1292.8	1294.4	1293.6
32.5°	1303.2	1304.8	1308.8	1311.2	1316.8	1321.6	1327.2	1332.0	1334.4	1336.8	1336.0
35°	1351.2	1355.2	1359.2	1361.6	1367.2	1371.2	1378.4	1383.2	1388.0	1386.4	1387.2
37.5°	1422.4	1425.6	1426.4	1428.0	1433.6	1436.8	1444.8	1451.2	1453.6	1455.2	1456.0
40°	1518.4	1518.4	1522.4	1519.2	1526.4	1527.2	1536.8	1545.6	1548.0	1554.4	1549.6
42.5°	1630.4	1629.6	1632.0	1629.6	1629.6	1637.6	1645.6	1661.6	1663.2	1671.2	1666.4
45°	1752.0	1752.0	1749.6	1750.4	1752.0	1760.8	1770.4	1788.0	1796.0	1800.8	1797.6
47.5°	1884.0	1880.8	1880.0	1879.2	1884.0	1893.6	1908.0	1924.8	1944.8	1946.4	1944.8
50°	2017.6	2016.8	2011.2	2016.0	2019.2	2024.0	2051.2	2073.6	2094.4	2107.2	2103.2
52.5°	2158.4	2151.2	2151.2	2151.2	2159.2	2174.4	2198.4	2228.8	2256.8	2270.4	2268.0
55°	2300.8	2298.4	2291.2	2288.0	2298.4	2320.0	2354.4	2391.2	2428.0	2448.8	2440.8
57.5°	2431.2	2427.2	2428.0	2428.8	2440.8	2469.6	2509.6	2558.4	2598.4	2620.8	2615.2
60°	2533.6	2528.8	2537.6	2540.0	2561.6	2609.6	2673.6	2735.2	2788.0	2810.4	2801.6
62.5°	2649.6	2646.4	2652.0	2651.2	2674.4	2728.0	2813.6	2912.0	2992.0	3020.8	3008.0
65°	2836.8	2827.2	2824.8	2816.0	2831.2	2872.8	2958.4	3072.8	3200.8	3274.4	3256.8
67.5°	3060.8	3058.4	3050.4	3045.6	3051.2	3103.2	3185.6	3296.0	3426.4	3528.0	3550.4
70°	3208.8	3212.0	3220.0	3232.0	3278.4	3379.2	3529.6	3696.8	3876.0	3952.0	3938.4
72.5°	3180.8	3185.6	3192.0	3207.2	3268.0	3388.8	3587.2	3836.8	4061.6	4162.4	4076.0
75°	3044.0	3048.0	3062.4	3085.6	3160.0	3306.4	3520.0	3784.8	4016.8	4117.6	4027.2
76°	2917.6	2930.4	2956.8	2984.0	3073.6	3232.8	3460.8	3743.2	3988.8	4091.2	4004.0
77.5°	2631.2	2642.4	2664.0	2711.2	2812.8	3016.8	3283.2	3560.8	3816.8	3908.8	3835.2
80°	1980.0	1989.6	2009.6	2066.4	2154.4	2280.8	2487.2	2758.4	3039.2	3160.0	3112.0
82.5°	836.0	847.2	926.4	1008.8	1105.6	1242.4	1376.8	1616.8	1823.2	1960.8	1887.2
85°	92.0	113.6	140.0	190.4	233.6	311.2	387.2	532.8	673.6	759.2	671.2
87.5°	16.0	18.4	26.4	33.6	37.6	43.2	52.0	72.8	99.2	85.6	87.2
90°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	1.6	1.6	1.6	1.6
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
97.5°	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
100°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6
102.5°	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6	1.6
105°	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
107.5°	0.8	0.8	0.8	0.8	1.6	1.6	0.8	0.8	0.8	1.6	0.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
112.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
115°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
117.5°	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
120°	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
122.5°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8
125°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8
127.5°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8
130°	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8
132.5°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8
135°	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8
137.5°	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8
140°	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8
142.5°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8
145°	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.0	0.8
147.5°	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8
150°	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.0	0.0	0.0
152.5°	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.0	0.0
155°	1.6	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.0	0.8
157.5°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.0	0.0	0.0
160°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.0	0.0	0.0
162.5°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.0	0.0	0.0
165°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	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





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1217.6	1217.6	1217.6	1217.6	1217.6	1217.6	1217.6	1217.6
2.5°	1217.6	1217.6	1219.2	1218.4	1218.4	1219.2	1220.8	1220.0
5°	1218.4	1219.2	1217.6	1218.4	1219.2	1219.2	1220.0	1219.2
7.5°	1216.8	1216.8	1216.8	1217.6	1218.4	1217.6	1218.4	1218.4
10°	1213.6	1214.4	1213.6	1215.2	1216.0	1216.0	1216.8	1216.8
12.5°	1211.2	1211.2	1211.2	1212.8	1213.6	1213.6	1214.4	1213.6
15°	1208.8	1208.8	1208.0	1209.6	1211.2	1211.2	1212.0	1212.0
17.5°	1208.0	1208.0	1207.2	1208.8	1210.4	1210.4	1211.2	1211.2
20°	1210.4	1211.2	1209.6	1211.2	1212.8	1213.6	1213.6	1213.6
22.5°	1220.0	1219.2	1216.8	1217.6	1218.4	1218.4	1218.4	1218.4
25°	1234.4	1232.8	1230.4	1229.6	1228.8	1228.0	1228.0	1228.0
27.5°	1259.2	1256.8	1252.8	1252.0	1251.2	1249.6	1249.6	1249.6
30°	1288.8	1285.6	1280.8	1279.2	1276.8	1275.2	1274.4	1273.6
32.5°	1331.2	1324.8	1319.2	1315.2	1312.8	1308.0	1307.2	1305.6
35°	1380.0	1375.2	1367.2	1364.8	1360.8	1358.4	1357.6	1353.6
37.5°	1447.2	1441.6	1434.4	1432.8	1432.0	1429.6	1429.6	1428.8
40°	1540.8	1535.2	1528.8	1522.4	1524.0	1524.8	1524.8	1521.6
42.5°	1655.2	1646.4	1633.6	1637.6	1635.2	1632.0	1638.4	1634.4
45°	1785.6	1773.6	1764.0	1760.0	1760.0	1756.0	1762.4	1762.4
47.5°	1930.4	1911.2	1893.6	1894.4	1888.0	1889.6	1893.6	1899.2
50°	2083.2	2057.6	2040.8	2032.8	2026.4	2028.8	2036.0	2037.6
52.5°	2241.6	2210.4	2188.0	2176.0	2168.0	2171.2	2176.8	2181.6
55°	2406.4	2372.0	2338.4	2325.6	2316.0	2322.4	2323.2	2329.6
57.5°	2578.4	2531.2	2492.0	2472.8	2463.2	2469.6	2474.4	2480.8
60°	2752.0	2697.6	2651.2	2628.8	2615.2	2624.0	2635.2	2638.4
62.5°	2953.6	2878.4	2826.4	2794.4	2788.0	2796.8	2800.0	2809.6
65°	3192.0	3101.6	3029.6	2990.4	2988.8	2993.6	3000.8	3003.2
67.5°	3464.0	3363.2	3266.4	3227.2	3212.0	3226.4	3233.6	3243.2
70°	3848.0	3709.6	3569.6	3482.4	3445.6	3434.4	3437.6	3448.0
72.5°	3891.2	3742.4	3579.2	3460.8	3396.0	3366.4	3365.6	3367.2
75°	3796.8	3559.2	3444.0	3308.0	3216.0	3168.0	3161.6	3160.8
76°	3749.6	3468.8	3302.4	3194.4	3084.0	3035.2	3028.0	3024.0
77.5°	3550.4	3248.8	2998.4	2932.8	2827.2	2765.6	2778.4	2768.0
80°	2846.4	2547.2	2311.2	2126.4	2132.0	2087.2	2068.8	2063.2
82.5°	1677.6	1432.0	1171.2	1018.4	872.8	834.4	718.4	692.0
85°	536.0	380.0	230.4	167.2	113.6	95.2	74.4	68.0
87.5°	71.2	56.0	45.6	44.0	40.0	34.4	22.4	16.0
90°	0.8	0.8	0.8	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°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
97.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
100°	1.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8
102.5°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8
105°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
107.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6



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CATALOG NUMBER: VTS-E04-LED-E1-5XQ

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
110°	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6
112.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6
115°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6
117.5°	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6
120°	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6
122.5°	0.8	0.8	0.8	0.8	1.6	1.6	1.6	1.6
125°	0.8	0.8	0.8	0.8	1.6	1.6	1.6	1.6
127.5°	0.8	0.8	0.8	0.8	1.6	1.6	1.6	1.6
130°	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6
132.5°	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6
135°	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6
137.5°	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6
140°	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6
142.5°	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6
145°	0.8	0.8	0.8	0.8	1.6	1.6	1.6	1.6
147.5°	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6
150°	0.8	0.8	0.8	0.8	1.6	1.6	1.6	1.6
152.5°	0.8	0.8	0.8	0.8	1.6	1.6	1.6	1.6
155°	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6
157.5°	0.8	0.8	0.8	0.8	1.6	1.6	1.6	1.6
160°	0.8	0.8	0.8	0.8	1.6	1.6	1.6	1.6
162.5°	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6
165°	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6
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)