

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: P157675

Luminaire Tested: **VTS-F04-LED-E1-5XQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157675
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-F04-LED-E1-5XQ
Description: VENTUS LED SITE LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (28) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

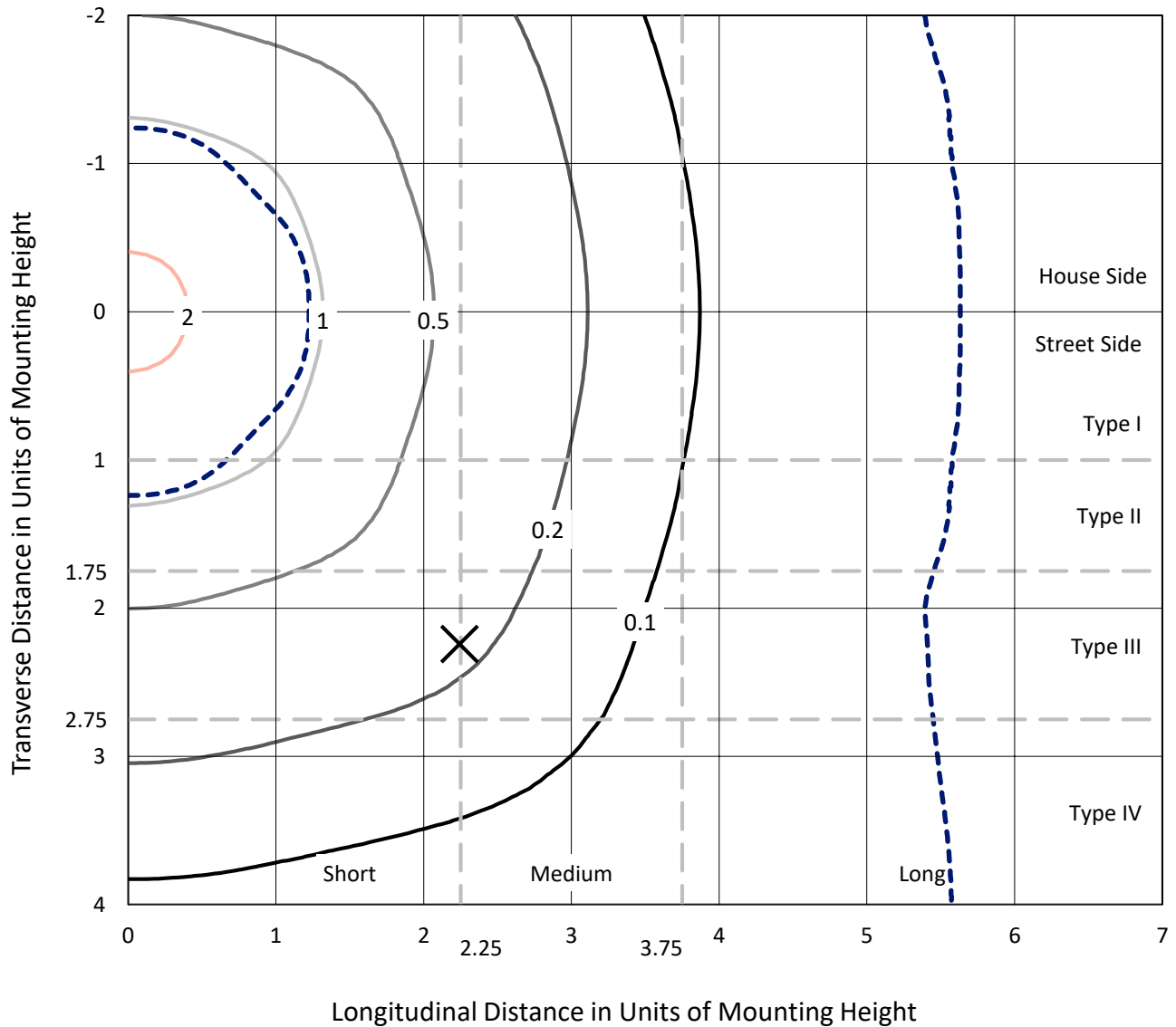
Lumens per Lamp: N/A
Luminaire Lumens: 10443.2 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U1 - G3

Input Watts (W): 102.2
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

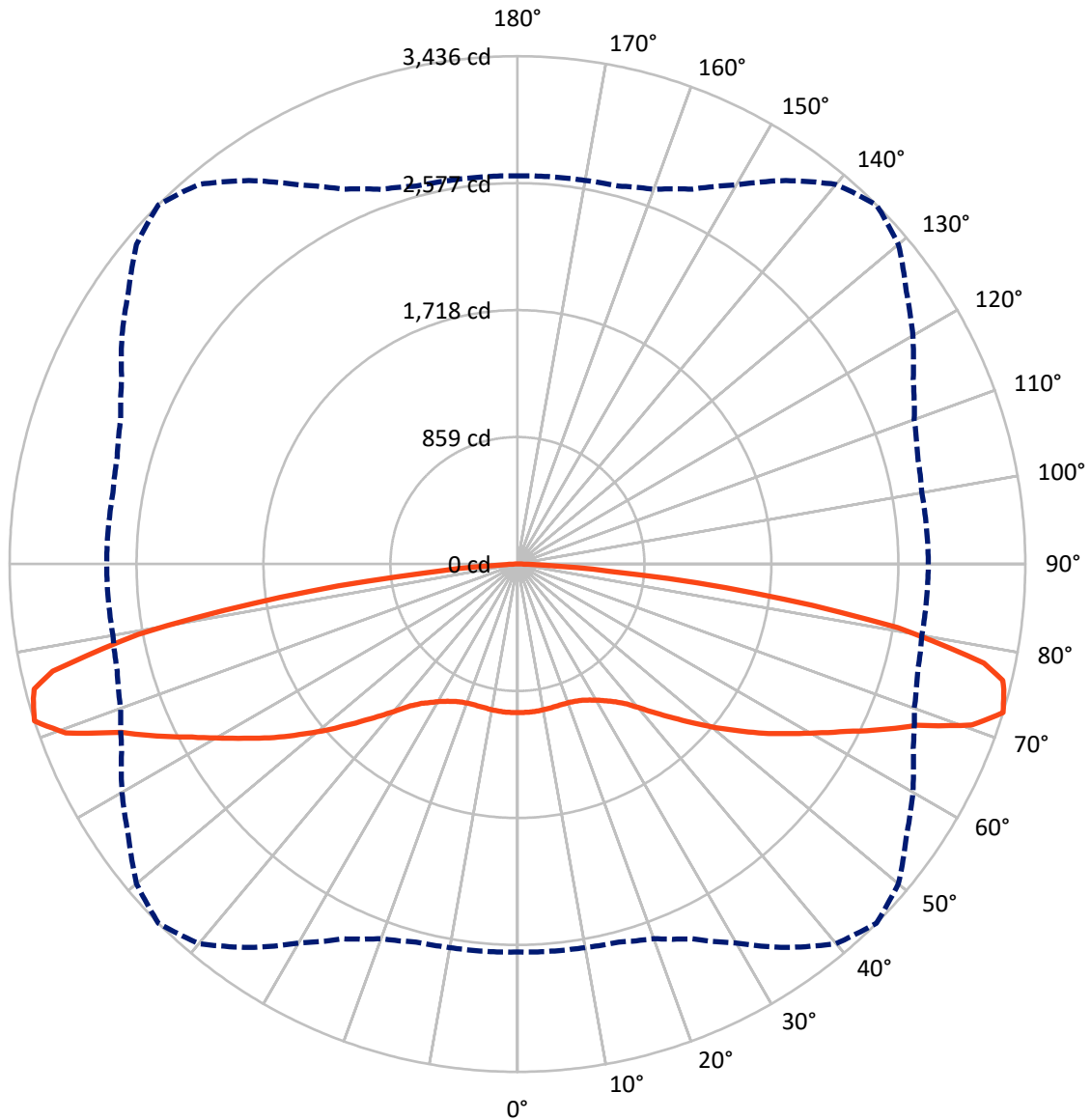
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.5 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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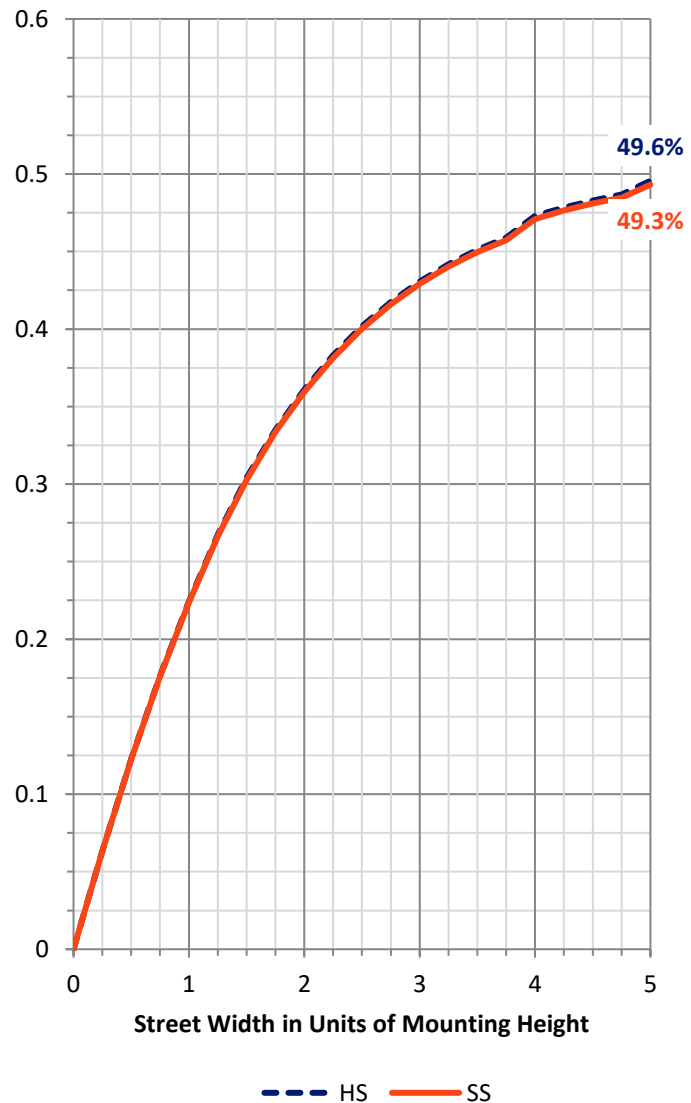
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5219.0	2.6	5221.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5219.0	2.6	5221.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	10438.1	5.2	10443.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.9	0.9
10°-20°	283.3	2.7
20°-30°	473.6	4.5
30°-40°	719.9	6.9
40°-50°	1140.2	10.9
50°-60°	1744.1	16.7
60°-70°	2496.2	23.9
70°-80°	2856.2	27.3
80°-90°	628.6	6.0
90°-100°	0.5	0.0
100°-110°	1.1	0.0
110°-120°	0.8	0.0
120°-130°	0.8	0.0
130°-140°	0.8	0.0
140°-150°	0.6	0.0
150°-160°	0.4	0.0
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-90°	10438.1	100.0
0°-180°	10443.2	100.0



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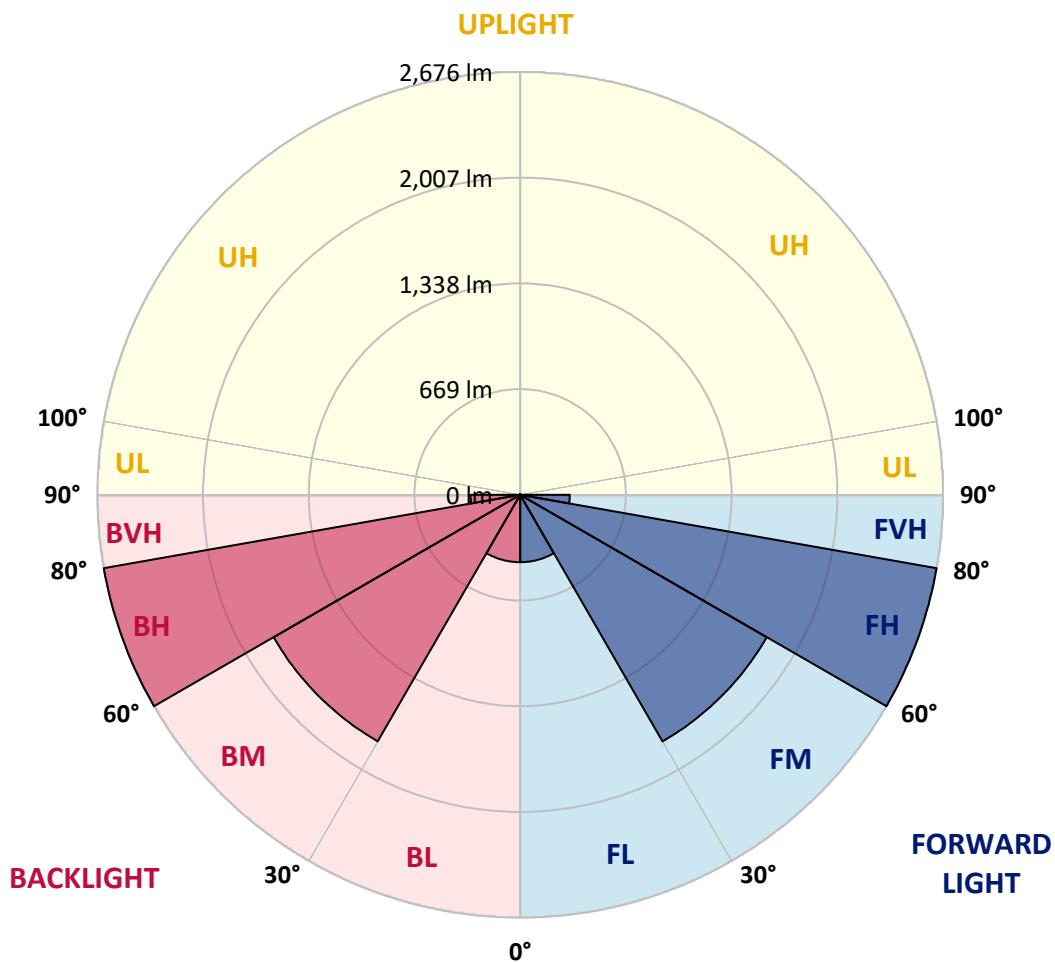
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	426.4	4.1			
FM (30°-60°)	1802.1	17.3			
FH (60°-80°)	2676.2	25.6			G2/5000
FVH (80°-90°)	314.3	3.0			G3/500
BL (0°-30°)	426.4	4.1	B1/500		
BM (30°-60°)	1802.1	17.3	B2/2500		
BH (60°-80°)	2676.2	25.6	B4/5000		G2/5000
BVH (80°-90°)	314.3	3.0			G3/500
UL (90°-100°)	0.5	0.0		U1/10	
UH (100°-180°)	2.6	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°	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2
2.5°	1005.8	1004.5	1005.2	1006.5	1005.8	1005.8	1005.2	1005.2	1006.5	1005.2	1005.8
5°	1006.5	1005.2	1005.8	1006.5	1005.8	1006.5	1005.8	1005.8	1005.8	1005.2	1006.5
7.5°	1003.8	1003.8	1004.5	1004.5	1003.8	1004.5	1004.5	1004.5	1003.8	1003.8	1005.2
10°	1002.5	1001.9	1001.9	1002.5	1001.9	1001.9	1002.5	1002.5	1001.2	1001.2	1002.5
12.5°	1000.5	999.9	999.9	999.9	999.2	999.2	999.9	999.9	999.2	998.6	1000.5
15°	999.2	998.6	998.6	998.6	997.2	997.9	997.9	997.9	997.2	996.6	998.6
17.5°	998.6	997.9	997.9	997.9	997.2	997.2	997.2	997.2	996.6	996.6	997.9
20°	999.9	999.9	999.9	999.9	999.2	999.2	999.2	999.9	999.9	999.9	1001.2
22.5°	1003.2	1003.2	1003.8	1004.5	1004.5	1005.8	1006.5	1007.1	1007.1	1007.8	1009.1
25°	1011.8	1011.8	1012.4	1013.1	1015.1	1016.4	1019.0	1020.3	1021.0	1021.0	1021.7
27.5°	1027.6	1028.3	1029.6	1030.9	1033.6	1035.5	1038.2	1040.8	1041.5	1042.1	1042.8
30°	1047.4	1048.1	1050.7	1052.0	1055.4	1059.3	1062.6	1065.3	1067.2	1068.6	1067.9
32.5°	1075.8	1077.1	1080.4	1082.4	1087.1	1091.0	1095.6	1099.6	1101.6	1103.6	1102.9
35°	1115.4	1118.8	1122.1	1124.0	1128.7	1132.0	1137.9	1141.9	1145.8	1144.5	1145.2
37.5°	1174.2	1176.9	1177.5	1178.8	1183.5	1186.1	1192.7	1198.0	1200.0	1201.3	1202.0
40°	1253.5	1253.5	1256.8	1254.1	1260.1	1260.7	1268.7	1275.9	1277.9	1283.2	1279.2
42.5°	1345.9	1345.3	1347.3	1345.3	1345.3	1351.9	1358.5	1371.7	1373.0	1379.6	1375.7
45°	1446.3	1446.3	1444.3	1445.0	1446.3	1453.6	1461.5	1476.0	1482.6	1486.6	1484.0
47.5°	1555.3	1552.6	1552.0	1551.3	1555.3	1563.2	1575.1	1589.0	1605.5	1606.8	1605.5
50°	1665.6	1664.9	1660.3	1664.3	1666.9	1670.9	1693.3	1711.8	1729.0	1739.5	1736.2
52.5°	1781.8	1775.9	1775.9	1775.9	1782.5	1795.0	1814.8	1839.9	1863.0	1874.3	1872.3
55°	1899.4	1897.4	1891.4	1888.8	1897.4	1915.2	1943.6	1974.0	2004.4	2021.5	2014.9
57.5°	2007.0	2003.7	2004.4	2005.0	2014.9	2038.7	2071.7	2112.0	2145.0	2163.5	2158.9
60°	2091.5	2087.6	2094.9	2096.8	2114.7	2154.3	2207.1	2258.0	2301.6	2320.1	2312.8
62.5°	2187.3	2184.7	2189.3	2188.6	2207.8	2252.0	2322.7	2403.9	2470.0	2493.7	2483.2
65°	2341.8	2333.9	2331.9	2324.7	2337.2	2371.6	2442.2	2536.7	2642.3	2703.1	2688.6
67.5°	2526.8	2524.8	2518.2	2514.2	2518.8	2561.8	2629.8	2720.9	2828.6	2912.5	2930.9
70°	2648.9	2651.6	2658.2	2668.1	2706.4	2789.6	2913.8	3051.8	3199.7	3262.5	3251.2
72.5°	2625.8	2629.8	2635.1	2647.6	2697.8	2797.5	2961.3	3167.4	3353.0	3436.2	3364.8
75°	2512.9	2516.2	2528.1	2547.2	2608.7	2729.5	2905.8	3124.4	3316.0	3399.2	3324.6
76°	2408.6	2419.1	2440.9	2463.4	2537.3	2668.8	2857.0	3090.1	3292.9	3377.4	3305.4
77.5°	2172.1	2181.4	2199.2	2238.2	2322.0	2490.4	2710.4	2939.5	3150.9	3226.8	3166.1
80°	1634.5	1642.5	1659.0	1705.9	1778.5	1882.9	2053.2	2277.1	2508.9	2608.7	2569.0
82.5°	690.1	699.4	764.8	832.8	912.7	1025.6	1136.6	1334.7	1505.1	1618.7	1557.9
85°	75.9	93.8	115.6	157.2	192.8	256.9	319.6	439.8	556.1	626.7	554.1
87.5°	13.2	15.2	21.8	27.7	31.0	35.7	42.9	60.1	81.9	70.7	72.0
90°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.3	1.3	1.3	1.3
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	1.3	1.3	1.3
102.5°	0.7	0.7	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3	1.3
105°	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
107.5°	0.7	0.7	0.7	0.7	1.3	1.3	0.7	0.7	0.7	1.3	0.7



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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°	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
120°	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
122.5°	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7
125°	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7
127.5°	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7
130°	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.7	0.7
132.5°	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7
135°	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.7	0.7
137.5°	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.7	0.7
140°	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.7	0.7
142.5°	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7
145°	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.0	0.7
147.5°	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.7	0.7
150°	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.0	0.0	0.0
152.5°	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.0	0.0
155°	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.0	0.7
157.5°	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.0	0.0	0.0
160°	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.0	0.0	0.0
162.5°	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.0	0.0	0.0
165°	1.3	1.3	1.3	1.3	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2	1005.2
2.5°	1005.2	1005.2	1006.5	1005.8	1005.8	1006.5	1007.8	1007.1
5°	1005.8	1006.5	1005.2	1005.8	1006.5	1006.5	1007.1	1006.5
7.5°	1004.5	1004.5	1004.5	1005.2	1005.8	1005.2	1005.8	1005.8
10°	1001.9	1002.5	1001.9	1003.2	1003.8	1003.8	1004.5	1004.5
12.5°	999.9	999.9	999.9	1001.2	1001.9	1001.9	1002.5	1001.9
15°	997.9	997.9	997.2	998.6	999.9	999.9	1000.5	1000.5
17.5°	997.2	997.2	996.6	997.9	999.2	999.2	999.9	999.9
20°	999.2	999.9	998.6	999.9	1001.2	1001.9	1001.9	1001.9
22.5°	1007.1	1006.5	1004.5	1005.2	1005.8	1005.8	1005.8	1005.8
25°	1019.0	1017.7	1015.7	1015.1	1014.4	1013.7	1013.7	1013.7
27.5°	1039.5	1037.5	1034.2	1033.6	1032.9	1031.6	1031.6	1031.6
30°	1063.9	1061.3	1057.3	1056.0	1054.0	1052.7	1052.0	1051.4
32.5°	1098.9	1093.7	1089.0	1085.7	1083.7	1079.8	1079.1	1077.8
35°	1139.2	1135.3	1128.7	1126.7	1123.4	1121.4	1120.7	1117.4
37.5°	1194.7	1190.1	1184.1	1182.8	1182.2	1180.2	1180.2	1179.5
40°	1272.0	1267.3	1262.1	1256.8	1258.1	1258.8	1258.8	1256.1
42.5°	1366.4	1359.1	1348.6	1351.9	1349.9	1347.3	1352.5	1349.2
45°	1474.1	1464.2	1456.2	1452.9	1452.9	1449.6	1454.9	1454.9
47.5°	1593.6	1577.7	1563.2	1563.9	1558.6	1559.9	1563.2	1567.8
50°	1719.7	1698.6	1684.7	1678.1	1672.8	1674.8	1680.8	1682.1
52.5°	1850.5	1824.7	1806.2	1796.3	1789.7	1792.4	1797.0	1801.0
55°	1986.5	1958.1	1930.4	1919.8	1911.9	1917.2	1917.9	1923.1
57.5°	2128.5	2089.6	2057.2	2041.4	2033.4	2038.7	2042.7	2048.0
60°	2271.8	2226.9	2188.6	2170.1	2158.9	2166.2	2175.4	2178.1
62.5°	2438.3	2376.2	2333.3	2306.8	2301.6	2308.8	2311.5	2319.4
65°	2635.1	2560.4	2501.0	2468.6	2467.3	2471.3	2477.2	2479.2
67.5°	2859.6	2776.4	2696.5	2664.1	2651.6	2663.5	2669.4	2677.3
70°	3176.6	3062.4	2946.8	2874.8	2844.4	2835.2	2837.8	2846.4
72.5°	3212.3	3089.4	2954.7	2857.0	2803.5	2779.0	2778.4	2779.7
75°	3134.4	2938.2	2843.1	2730.8	2654.9	2615.3	2610.0	2609.3
76°	3095.4	2863.6	2726.2	2637.1	2545.9	2505.6	2499.7	2496.4
77.5°	2930.9	2682.0	2475.3	2421.1	2333.9	2283.1	2293.6	2285.1
80°	2349.8	2102.8	1908.0	1755.4	1760.0	1723.0	1707.8	1703.2
82.5°	1384.9	1182.2	966.9	840.7	720.5	688.8	593.1	571.3
85°	442.5	313.7	190.2	138.0	93.8	78.6	61.4	56.1
87.5°	58.8	46.2	37.6	36.3	33.0	28.4	18.5	13.2
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°	1.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7
102.5°	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7
105°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
107.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3



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CATALOG NUMBER: VTS-F04-LED-E1-5XQ

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	0.7	0.7	0.7	0.7	0.7	1.3	1.3	1.3
112.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3
115°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3
117.5°	0.7	0.7	0.7	0.7	0.7	1.3	1.3	1.3
120°	0.7	0.7	0.7	0.7	0.7	1.3	1.3	1.3
122.5°	0.7	0.7	0.7	0.7	1.3	1.3	1.3	1.3
125°	0.7	0.7	0.7	0.7	1.3	1.3	1.3	1.3
127.5°	0.7	0.7	0.7	0.7	1.3	1.3	1.3	1.3
130°	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3
132.5°	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3
135°	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3
137.5°	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3
140°	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3
142.5°	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3
145°	0.7	0.7	0.7	0.7	1.3	1.3	1.3	1.3
147.5°	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3
150°	0.7	0.7	0.7	0.7	1.3	1.3	1.3	1.3
152.5°	0.7	0.7	0.7	0.7	1.3	1.3	1.3	1.3
155°	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3
157.5°	0.7	0.7	0.7	0.7	1.3	1.3	1.3	1.3
160°	0.7	0.7	0.7	0.7	1.3	1.3	1.3	1.3
162.5°	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3
165°	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3
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)