

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: P157653

Luminaire Tested: **VTS-F02-LED-E1-5XQ-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P157653  
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-F02-LED-E1-5XQ-8030  
Description: VENTUS LED SITE LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (14) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

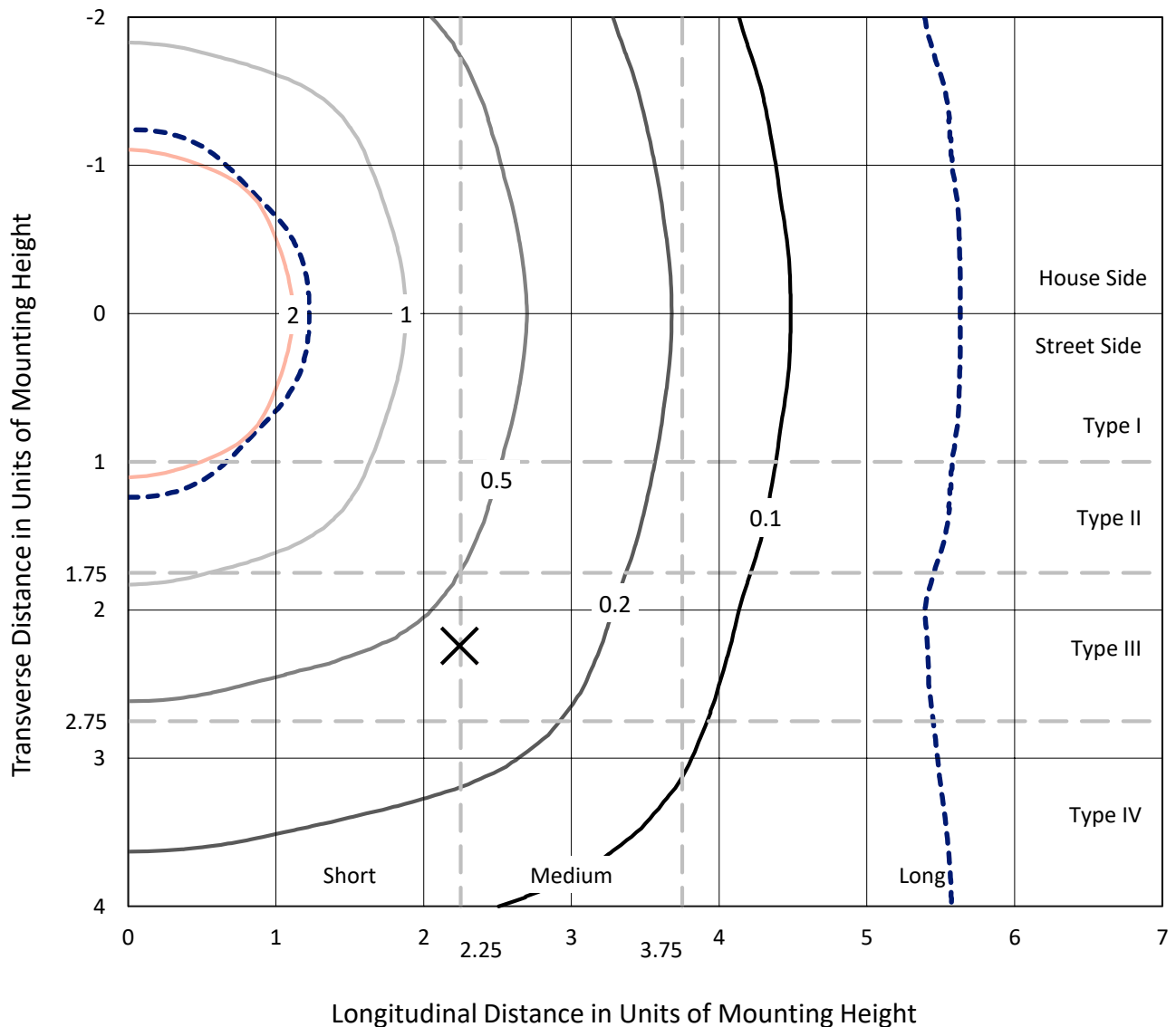
Lumens per Lamp: N/A  
Luminaire Lumens: 4407.1 lumens  
Efficiency: N/A  
Efficacy: 80.1 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U1 - G2

Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

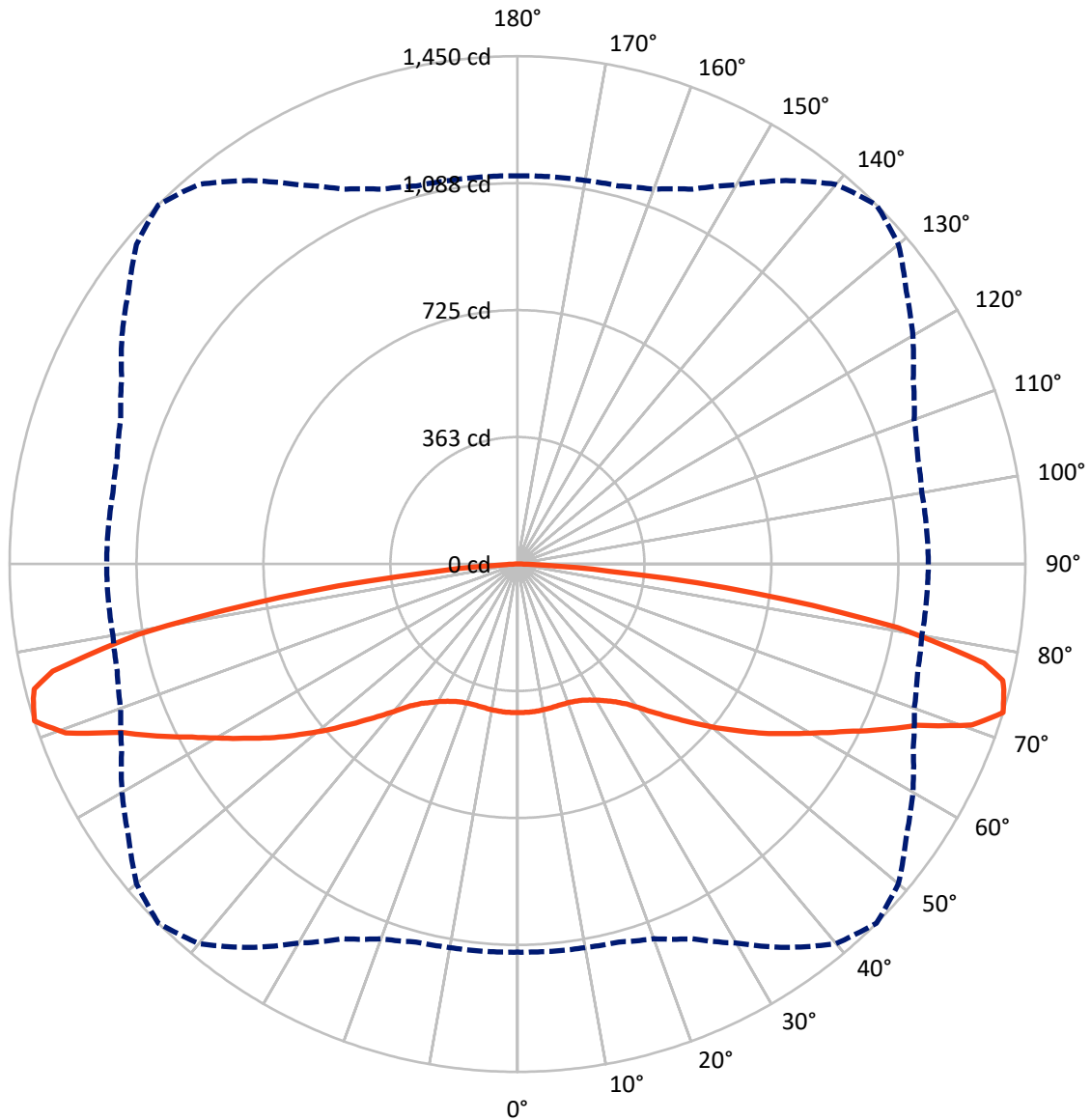
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.2 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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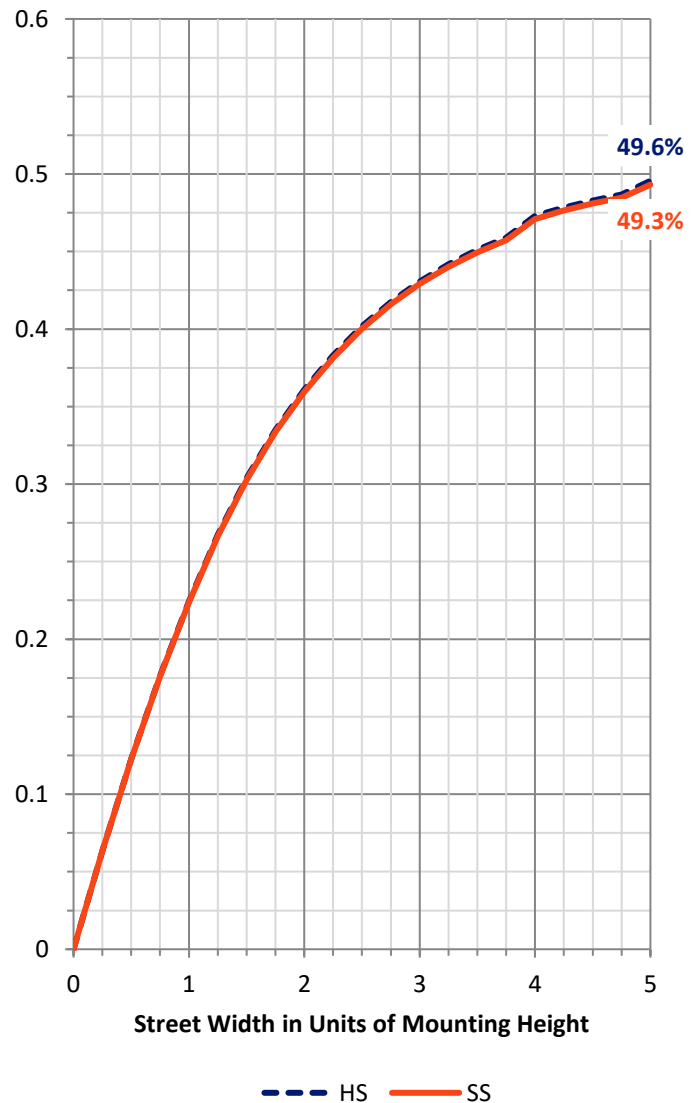
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2202.4	1.2	2203.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2202.4	1.2	2203.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4404.8	2.3	4407.1
	% Fixture	99.9	0.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.5	0.9
10°-20°	119.5	2.7
20°-30°	199.9	4.5
30°-40°	303.8	6.9
40°-50°	481.2	10.9
50°-60°	736.0	16.7
60°-70°	1053.4	23.9
70°-80°	1205.3	27.3
80°-90°	265.3	6.0
90°-100°	0.2	0.0
100°-110°	0.5	0.0
110°-120°	0.3	0.0
120°-130°	0.4	0.0
130°-140°	0.3	0.0
140°-150°	0.3	0.0
150°-160°	0.2	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	4404.8	99.9
0°-180°	4407.1	100.0



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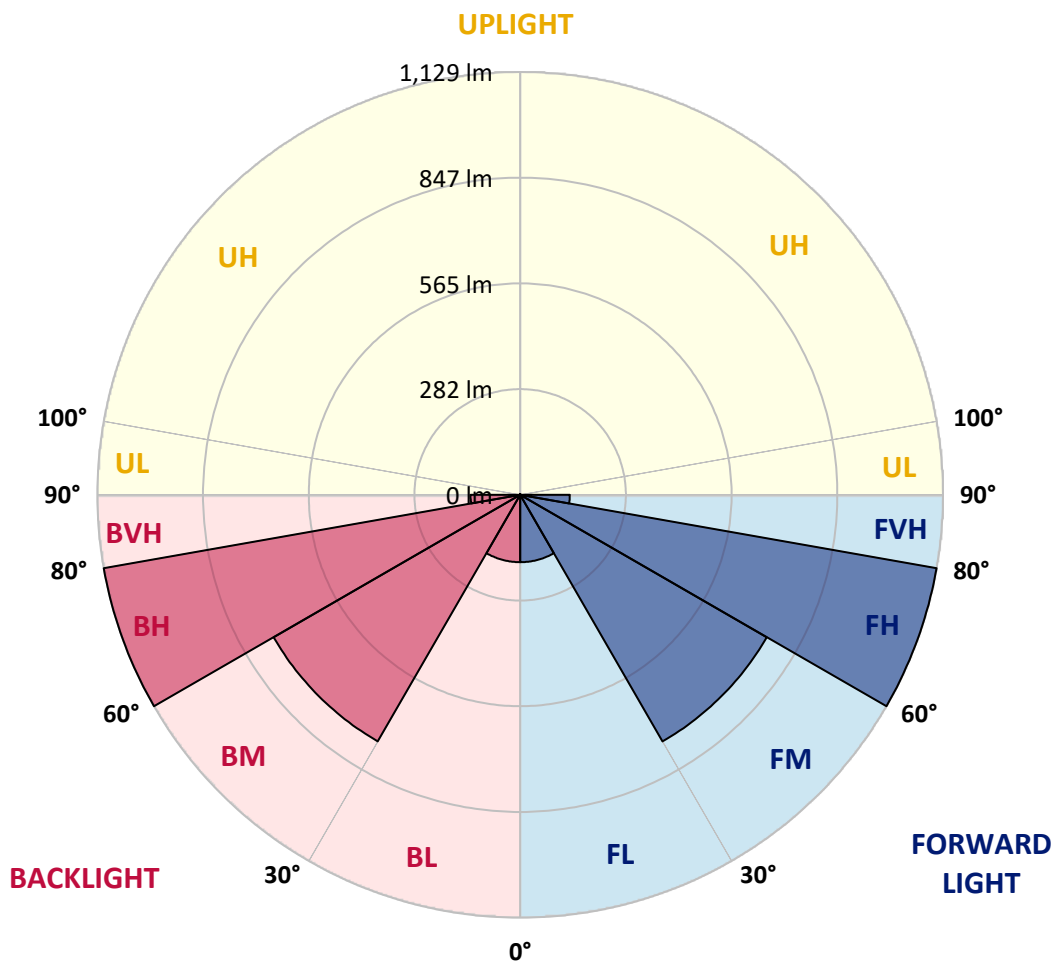
CATALOG NUMBER: VTS-F02-LED-E1-5XQ-8030

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	179.9	4.1			
FM (30°-60°)	760.5	17.3			
FH (60°-80°)	1129.3	25.6			G1/1800
FVH (80°-90°)	132.6	3.0			G2/225
BL (0°-30°)	179.9	4.1	B1/500		
BM (30°-60°)	760.5	17.3	B1/1000		
BH (60°-80°)	1129.3	25.6	B3/2500		G1/1800
BVH (80°-90°)	132.6	3.0			G2/225
UL (90°-100°)	0.2	0.0		U1/10	
UH (100°-180°)	1.2	0.0		U1/10	

**BUG Rating: B3-U1-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.2
2.5°	424.5	423.9	424.2	424.7	424.5	424.5	424.2	424.2	424.7	424.2	424.5
5°	424.7	424.2	424.5	424.7	424.5	424.7	424.5	424.5	424.5	424.2	424.7
7.5°	423.6	423.6	423.9	423.9	423.6	423.9	423.9	423.9	423.6	423.6	424.2
10°	423.1	422.8	422.8	423.1	422.8	422.8	423.1	423.1	422.5	422.5	423.1
12.5°	422.2	421.9	421.9	421.9	421.7	421.7	421.9	421.9	421.7	421.4	422.2
15°	421.7	421.4	421.4	421.4	420.8	421.1	421.1	421.1	420.8	420.5	421.4
17.5°	421.4	421.1	421.1	421.1	420.8	420.8	420.8	420.8	420.5	420.5	421.1
20°	421.9	421.9	421.9	421.9	421.7	421.7	421.7	421.9	421.9	421.9	422.5
22.5°	423.3	423.3	423.6	423.9	423.9	424.5	424.7	425.0	425.0	425.3	425.8
25°	427.0	427.0	427.2	427.5	428.4	428.9	430.0	430.6	430.9	430.9	431.1
27.5°	433.6	433.9	434.5	435.0	436.2	437.0	438.1	439.2	439.5	439.8	440.1
30°	442.0	442.3	443.4	444.0	445.4	447.0	448.4	449.5	450.4	450.9	450.6
32.5°	454.0	454.6	455.9	456.8	458.7	460.4	462.4	464.0	464.9	465.7	465.4
35°	470.7	472.1	473.5	474.3	476.3	477.7	480.2	481.9	483.5	483.0	483.3
37.5°	495.5	496.6	496.9	497.5	499.4	500.5	503.3	505.6	506.4	506.9	507.2
40°	529.0	529.0	530.4	529.2	531.7	532.0	535.4	538.4	539.3	541.5	539.8
42.5°	568.0	567.7	568.5	567.7	567.7	570.5	573.3	578.8	579.4	582.2	580.5
45°	610.3	610.3	609.5	609.8	610.3	613.4	616.8	622.9	625.7	627.3	626.2
47.5°	656.3	655.2	654.9	654.7	656.3	659.7	664.7	670.5	677.5	678.1	677.5
50°	702.9	702.6	700.6	702.3	703.4	705.1	714.6	722.4	729.6	734.1	732.7
52.5°	751.9	749.4	749.4	749.4	752.2	757.5	765.9	776.4	786.2	790.9	790.1
55°	801.5	800.7	798.2	797.1	800.7	808.2	820.2	833.0	845.8	853.1	850.3
57.5°	847.0	845.6	845.8	846.1	850.3	860.3	874.3	891.3	905.2	913.0	911.1
60°	882.6	881.0	884.0	884.9	892.4	909.1	931.4	952.9	971.2	979.1	976.0
62.5°	923.0	921.9	923.9	923.6	931.7	950.3	980.2	1014.4	1042.3	1052.3	1047.9
65°	988.2	984.9	984.1	981.0	986.3	1000.8	1030.6	1070.5	1115.1	1140.7	1134.6
67.5°	1066.3	1065.4	1062.7	1061.0	1062.9	1081.1	1109.8	1148.2	1193.6	1229.0	1236.8
70°	1117.8	1119.0	1121.7	1125.9	1142.1	1177.2	1229.6	1287.8	1350.3	1376.7	1372.0
72.5°	1108.1	1109.8	1112.0	1117.3	1138.5	1180.5	1249.7	1336.6	1414.9	1450.0	1419.9
75°	1060.4	1061.8	1066.8	1074.9	1100.8	1151.8	1226.3	1318.5	1399.3	1434.4	1402.9
76°	1016.4	1020.9	1030.1	1039.5	1070.7	1126.2	1205.6	1304.0	1389.6	1425.2	1394.9
77.5°	916.6	920.5	928.1	944.5	979.9	1051.0	1143.8	1240.5	1329.7	1361.7	1336.1
80°	689.8	693.1	700.1	719.9	750.5	794.6	866.5	960.9	1058.8	1100.8	1084.1
82.5°	291.2	295.1	322.7	351.4	385.2	432.8	479.6	563.2	635.1	683.1	657.4
85°	32.0	39.6	48.8	66.3	81.4	108.4	134.9	185.6	234.7	264.5	233.8
87.5°	5.6	6.4	9.2	11.7	13.1	15.0	18.1	25.4	34.6	29.8	30.4
90°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.6	0.6	0.6	0.6
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3
97.5°	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
100°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.6	0.6
102.5°	0.3	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6
105°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
107.5°	0.3	0.3	0.3	0.3	0.6	0.6	0.3	0.3	0.3	0.6	0.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
112.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
115°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
117.5°	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
120°	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
122.5°	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3
125°	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3
127.5°	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3
130°	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3
132.5°	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3
135°	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3
137.5°	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3
140°	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3
142.5°	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3
145°	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.0	0.3
147.5°	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.3	0.3
150°	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.0	0.0	0.0
152.5°	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.0	0.0
155°	0.6	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.0	0.3
157.5°	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.0	0.0	0.0
160°	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.0	0.0	0.0
162.5°	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	0.0	0.0	0.0
165°	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3	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°	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.2
2.5°	424.2	424.2	424.7	424.5	424.5	424.7	425.3	425.0
5°	424.5	424.7	424.2	424.5	424.7	424.7	425.0	424.7
7.5°	423.9	423.9	423.9	424.2	424.5	424.2	424.5	424.5
10°	422.8	423.1	422.8	423.3	423.6	423.6	423.9	423.9
12.5°	421.9	421.9	421.9	422.5	422.8	422.8	423.1	422.8
15°	421.1	421.1	420.8	421.4	421.9	421.9	422.2	422.2
17.5°	420.8	420.8	420.5	421.1	421.7	421.7	421.9	421.9
20°	421.7	421.9	421.4	421.9	422.5	422.8	422.8	422.8
22.5°	425.0	424.7	423.9	424.2	424.5	424.5	424.5	424.5
25°	430.0	429.5	428.6	428.4	428.1	427.8	427.8	427.8
27.5°	438.7	437.8	436.4	436.2	435.9	435.3	435.3	435.3
30°	449.0	447.9	446.2	445.6	444.8	444.2	444.0	443.7
32.5°	463.7	461.5	459.6	458.2	457.3	455.7	455.4	454.8
35°	480.7	479.1	476.3	475.5	474.1	473.2	472.9	471.6
37.5°	504.2	502.2	499.7	499.1	498.9	498.0	498.0	497.7
40°	536.8	534.8	532.6	530.4	530.9	531.2	531.2	530.1
42.5°	576.6	573.6	569.1	570.5	569.7	568.5	570.8	569.4
45°	622.0	617.9	614.5	613.1	613.1	611.7	614.0	614.0
47.5°	672.5	665.8	659.7	659.9	657.7	658.3	659.7	661.6
50°	725.7	716.8	710.9	708.2	705.9	706.8	709.3	709.8
52.5°	780.9	770.0	762.2	758.0	755.3	756.4	758.3	760.0
55°	838.3	826.3	814.6	810.2	806.8	809.0	809.3	811.6
57.5°	898.2	881.8	868.1	861.4	858.1	860.3	862.0	864.2
60°	958.7	939.8	923.6	915.8	911.1	914.1	918.0	919.1
62.5°	1028.9	1002.7	984.6	973.5	971.2	974.3	975.4	978.8
65°	1112.0	1080.5	1055.4	1041.8	1041.2	1042.9	1045.4	1046.2
67.5°	1206.7	1171.6	1137.9	1124.3	1119.0	1124.0	1126.5	1129.8
70°	1340.5	1292.3	1243.5	1213.2	1200.3	1196.4	1197.5	1201.2
72.5°	1355.6	1303.7	1246.9	1205.6	1183.1	1172.7	1172.5	1173.0
75°	1322.7	1239.9	1199.8	1152.4	1120.4	1103.6	1101.4	1101.1
76°	1306.2	1208.4	1150.4	1112.8	1074.4	1057.4	1054.9	1053.5
77.5°	1236.8	1131.8	1044.5	1021.7	984.9	963.4	967.9	964.3
80°	991.6	887.4	805.1	740.8	742.7	727.1	720.7	718.8
82.5°	584.4	498.9	408.0	354.8	304.1	290.7	250.3	241.1
85°	186.7	132.4	80.3	58.2	39.6	33.2	25.9	23.7
87.5°	24.8	19.5	15.9	15.3	13.9	12.0	7.8	5.6
90°	0.3	0.3	0.3	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°	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
97.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
100°	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3
102.5°	0.6	0.6	0.6	0.6	0.3	0.3	0.3	0.3
105°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
107.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6



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CATALOG NUMBER: VTS-F02-LED-E1-5XQ-8030

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
110°	0.3	0.3	0.3	0.3	0.3	0.6	0.6	0.6
112.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6
115°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6
117.5°	0.3	0.3	0.3	0.3	0.3	0.6	0.6	0.6
120°	0.3	0.3	0.3	0.3	0.3	0.6	0.6	0.6
122.5°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6
125°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6
127.5°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6
130°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6
132.5°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6
135°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6
137.5°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6
140°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6
142.5°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6
145°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6
147.5°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6
150°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6
152.5°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6
155°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6
157.5°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6
160°	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6
162.5°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6
165°	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6
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)