

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: P579389

Luminaire Tested: **CST-CA10-630-722-U-T5-HSS-HM-EX180**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579389  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/18/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-CA10-630-722-U-T5-HSS-HM-EX180  
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD  
Light Source: (10) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46374 lumens  
Efficiency: N/A  
Efficacy: 73.4 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U3 - G5

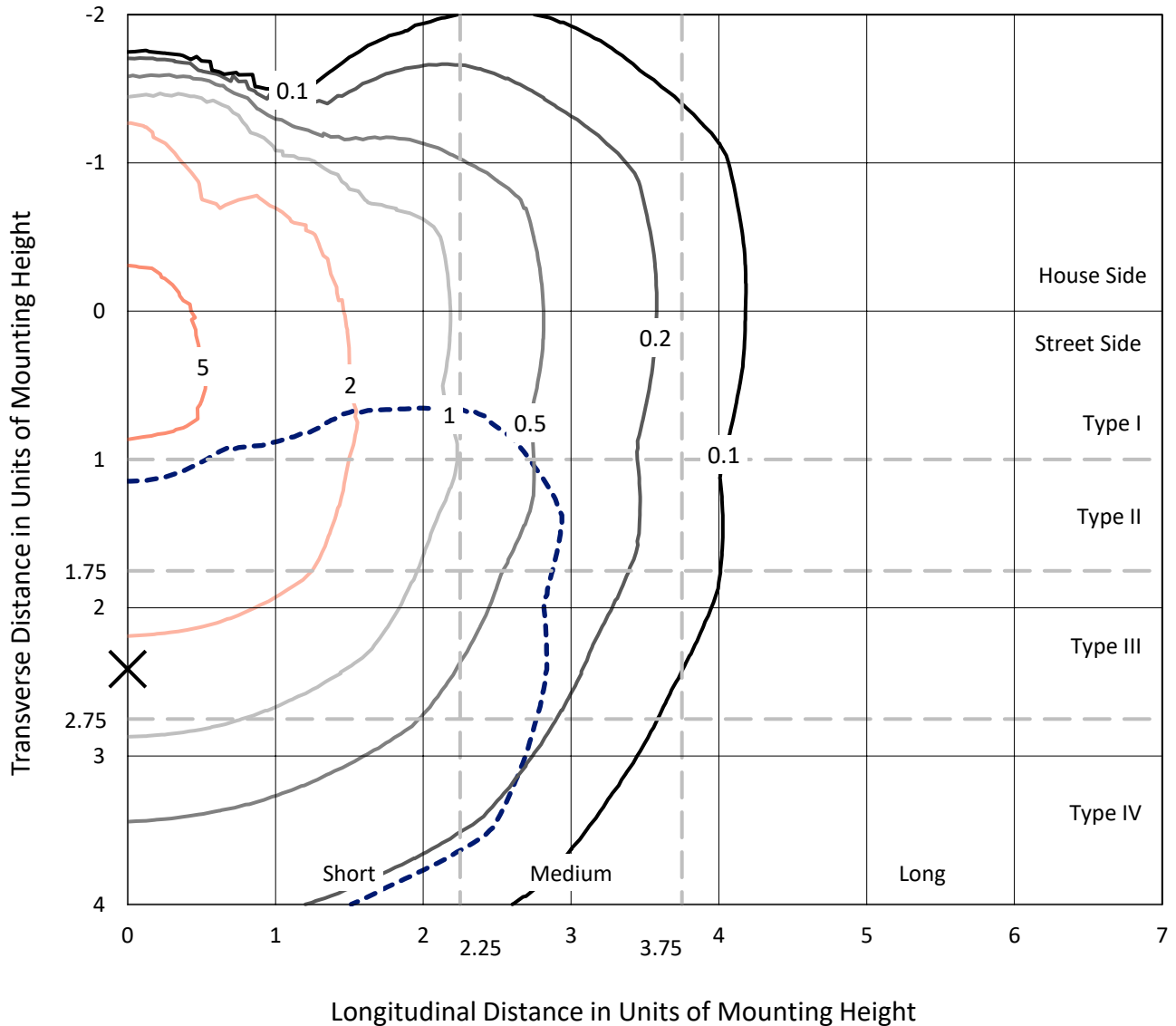
Input Watts (W): 631.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

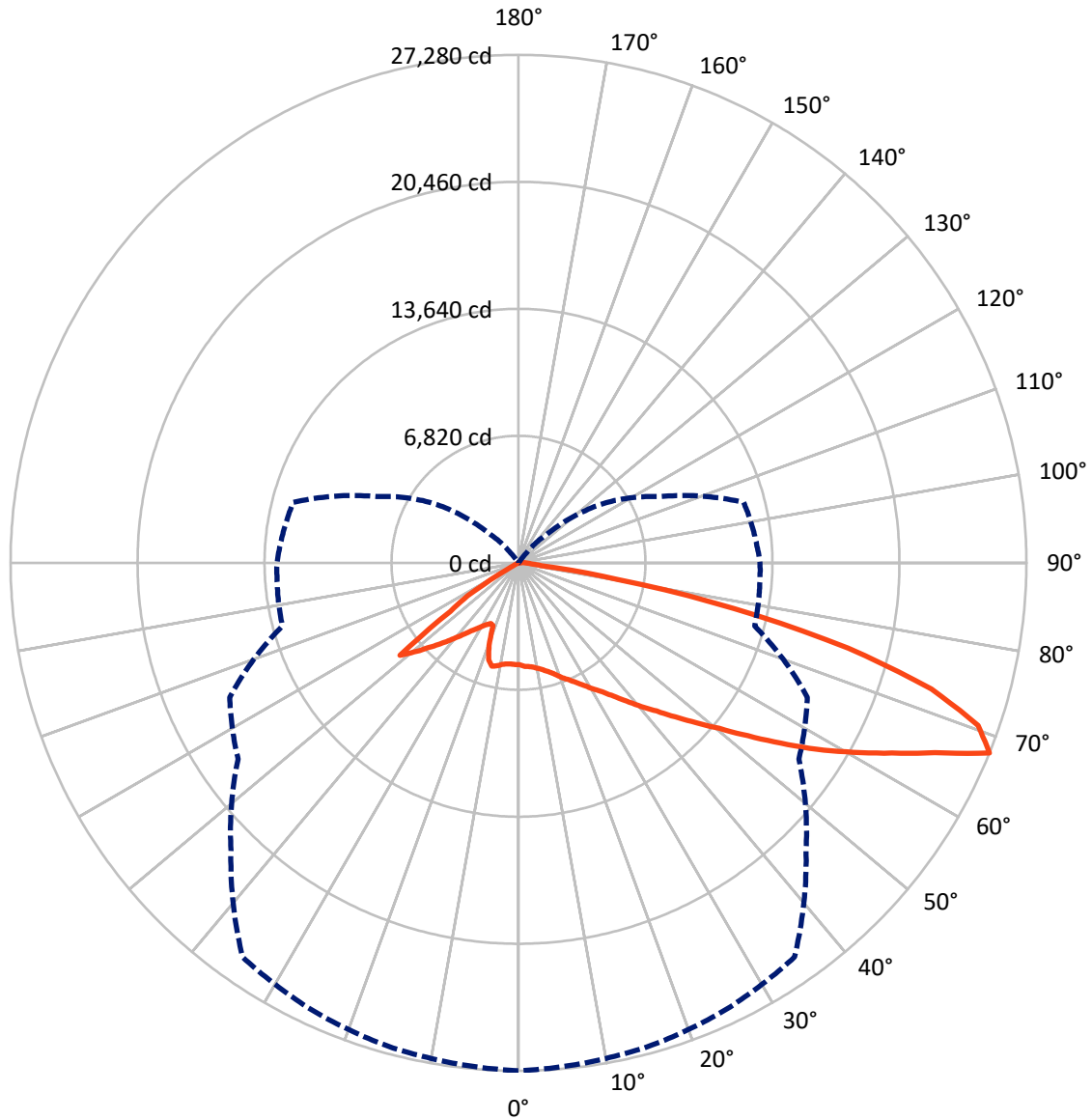
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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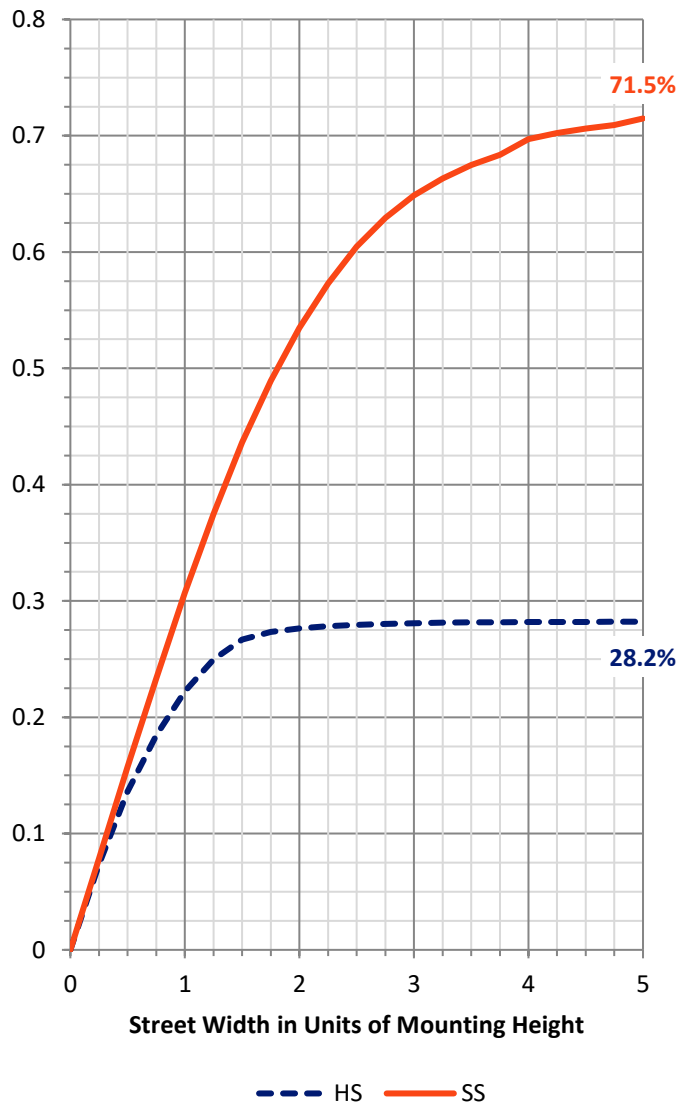
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13143.2	0.2	13143.4
	% Fixture	28.3	0.0	28.3
<b>Street Side</b>	Lumens	33171.5	59.0	33230.5
	% Fixture	71.5	0.1	71.7
<b>Total</b>	Lumens	46314.7	59.2	46374.0
	% Fixture	99.9	0.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	526.7	1.1
10°-20°	1621.5	3.5
20°-30°	2684.9	5.8
30°-40°	4226.4	9.1
40°-50°	6614.4	14.3
50°-60°	9550.1	20.6
60°-70°	11830.9	25.5
70°-80°	8616.2	18.6
80°-90°	643.7	1.4
90°-100°	50.5	0.1
100°-110°	8.4	0.0
110°-120°	0.3	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°	46314.7	99.9
0°-180°	46374.0	100.0

**Coefficient of Utilization**



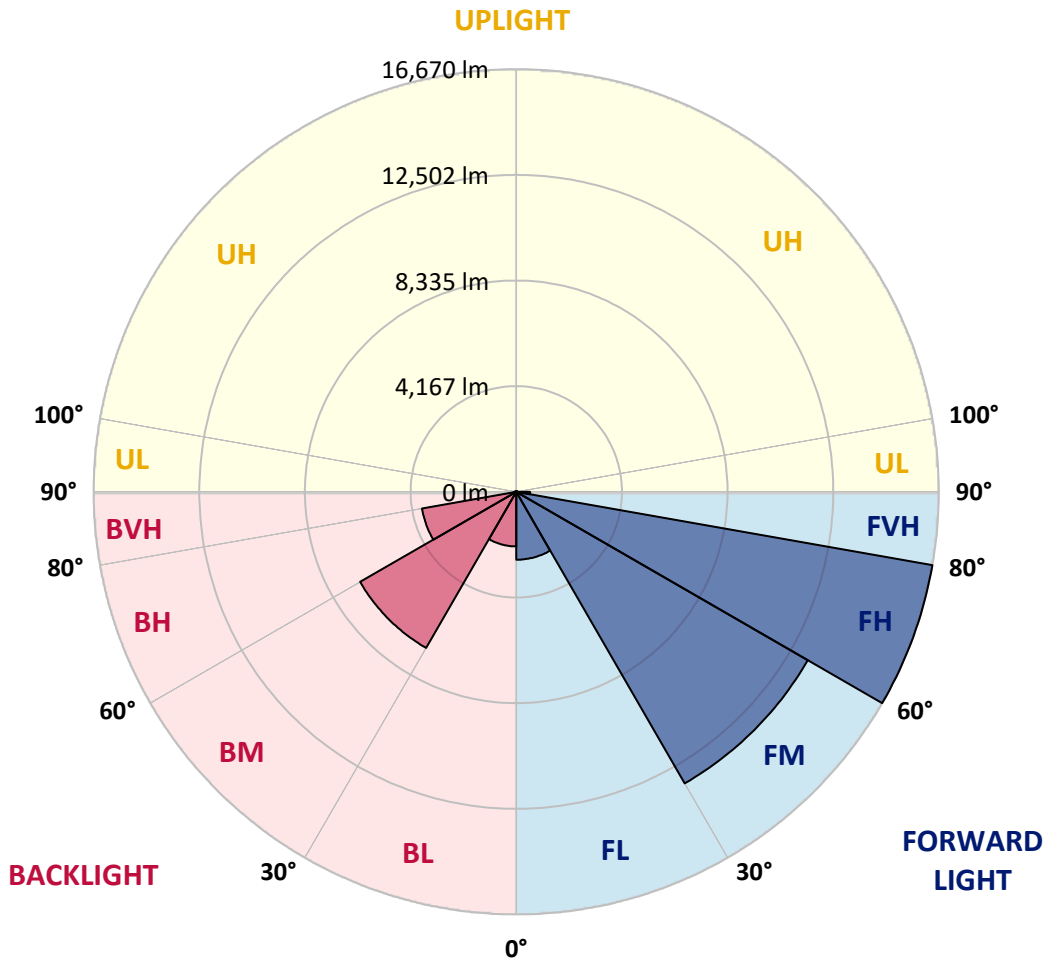
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2678.5	5.8			
FM (30°-60°)	13280.2	28.6			
FH (60°-80°)	16669.9	35.9			G5
FVH (80°-90°)	542.9	1.2			G4/750
BL (0°-30°)	2154.6	4.6	B3/2500		
BM (30°-60°)	7110.8	15.3	B4/8500		
BH (60°-80°)	3777.2	8.1	B4/5000		G4/5000
BVH (80°-90°)	100.7	0.2			G2/225
UL (90°-100°)	50.5	0.1		U3/500	
UH (100°-180°)	8.7	0.0		U1/10	

**BUG Rating: B4-U3-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5461.7	5461.7	5461.7	5461.7	5461.7	5461.7	5461.7	5461.7	5461.7	5461.7	5461.7
2.5°	5561.6	5531.4	5531.4	5563.9	5473.3	5501.2	5464.0	5496.5	5477.9	5487.2	5498.8
5°	5594.1	5559.3	5561.6	5601.1	5519.8	5543.0	5498.8	5515.1	5498.8	5505.8	5505.8
7.5°	5654.6	5624.4	5624.4	5647.6	5566.2	5573.2	5533.7	5533.7	5512.8	5529.1	5515.1
10°	5768.4	5735.9	5719.6	5731.3	5659.2	5649.9	5596.5	5596.5	5563.9	5589.5	5568.6
12.5°	5905.6	5859.1	5854.4	5856.8	5775.4	5759.1	5698.7	5701.0	5640.6	5675.5	5649.9
15°	6070.6	6012.5	6007.8	6017.1	5931.1	5900.9	5833.5	5833.5	5766.1	5784.7	5749.9
17.5°	6282.1	6214.7	6203.1	6219.3	6133.3	6105.4	6026.4	6012.5	5938.1	5924.2	5893.9
20°	6561.0	6484.3	6461.0	6495.9	6386.7	6361.1	6265.8	6235.6	6135.7	5970.6	5754.5
22.5°	6812.0	6751.5	6737.6	6760.8	6660.9	6635.3	6542.4	6479.6	6237.9	5905.6	5705.7
25°	7097.8	7074.6	7067.6	7053.7	6963.0	6918.9	6830.6	6742.2	6193.8	5738.2	5733.6
27.5°	7451.1	7439.5	7406.9	7395.3	7295.4	7267.5	7151.3	6581.9	6035.7	6003.2	5984.6
30°	7836.9	7813.7	7781.1	7783.5	7716.1	7664.9	7388.4	6440.1	6340.2	6340.2	6291.4
32.5°	8264.5	8239.0	8206.4	8213.4	8185.5	8141.4	7309.3	6814.3	6737.6	6758.5	6698.1
35°	8794.4	8752.6	8741.0	8768.9	8771.2	8485.3	7448.8	7323.3	7262.9	7248.9	7021.1
37.5°	9412.7	9377.8	9419.6	9484.7	9410.3	8573.6	8004.2	7964.7	7904.3	7567.3	7028.1
40°	10154.0	10091.3	10142.4	10184.3	10135.5	9098.9	8587.6	8601.5	8548.1	7548.7	6951.4
42.5°	10888.5	10828.0	10872.2	10976.8	10958.2	9749.7	9298.8	9329.0	8789.8	7592.9	7546.4
45°	11797.2	11776.3	11762.3	11848.3	11920.4	10528.2	10142.4	10140.1	8617.8	8294.8	8252.9
47.5°	12826.8	12798.9	12805.9	12915.1	13024.3	11457.9	11139.5	10205.2	9061.7	9094.3	9057.1
50°	13974.9	13944.7	14035.3	14193.4	14249.1	12501.4	12110.9	10028.5	9986.7	10021.6	9958.8
52.5°	15432.1	15364.7	15504.2	15673.8	15745.9	13735.5	12164.4	11072.1	11002.3	11009.3	10809.4
55°	17089.2	17035.7	17161.2	17351.8	17458.7	15113.7	13275.3	12087.7	12045.9	10860.6	9779.9
57.5°	18890.4	18830.0	18997.3	19053.1	19081.0	16538.4	14393.2	13189.3	11253.4	9917.0	9856.6
60°	20656.7	20591.6	20803.1	20812.4	20893.8	17960.7	15455.3	14251.5	10842.0	10665.4	10614.2
62.5°	22511.3	22430.0	22615.9	22609.0	22448.6	19262.2	16508.2	15271.7	11576.4	11437.0	11357.9
65°	24570.5	24510.1	24640.2	24431.1	24112.7	20607.9	17600.5	16382.7	12431.7	12406.1	12387.5
67.5°	27280.4	27161.9	26899.3	26453.0	25844.1	21842.0	18381.4	17114.8	13126.6	13008.1	12970.9
70°	26190.4	26051.0	25851.1	25360.7	24740.2	20682.3	17126.4	16008.5	12273.6	12278.3	12190.0
72.5°	23190.0	22948.3	22760.0	22072.1	21730.4	18063.0	14923.1	13893.5	10616.5	10814.1	10772.3
75°	18293.1	18046.7	17737.6	17468.0	17430.8	14651.2	12031.9	11290.5	8464.4	8608.5	8713.1
77.5°	11857.6	11767.0	12157.4	11901.8	12131.9	10089.0	8594.6	7957.8	5833.5	6198.4	6149.6
80°	5426.8	5322.2	5949.7	5773.1	5859.1	4955.0	4199.7	4034.7	2640.2	2658.8	2714.6
82.5°	1227.1	1185.3	1229.5	1129.5	1101.6	932.0	820.4	743.7	467.1	495.0	520.6
85°	671.7	671.7	662.4	615.9	527.6	434.6	344.0	264.9	144.1	158.0	155.7
87.5°	471.8	460.2	457.9	409.0	350.9	297.5	237.1	169.7	81.3	55.8	51.1
90°	323.1	318.4	302.1	271.9	234.7	192.9	144.1	83.7	34.9	16.3	11.6
92.5°	234.7	230.1	218.5	192.9	160.4	130.2	95.3	55.8	27.9	11.6	2.3
95°	155.7	153.4	146.4	125.5	104.6	83.7	60.4	34.9	23.2	9.3	2.3
97.5°	106.9	104.6	97.6	83.7	67.4	53.5	37.2	25.6	18.6	7.0	2.3
100°	72.0	69.7	65.1	53.5	41.8	32.5	23.2	18.6	13.9	7.0	2.3
102.5°	46.5	44.2	39.5	32.5	23.2	18.6	16.3	13.9	9.3	4.6	2.3
105°	27.9	25.6	20.9	16.3	13.9	11.6	11.6	9.3	7.0	2.3	2.3
107.5°	13.9	11.6	9.3	9.3	9.3	7.0	7.0	7.0	4.6	2.3	0.0
110°	2.3	2.3	4.6	4.6	4.6	4.6	4.6	4.6	4.6	2.3	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5461.7	5461.7	5461.7	5461.7	5461.7	5461.7	5461.7	5461.7	5461.7	5461.7
2.5°	5487.2	5450.0	5471.0	5438.4	5431.4	5396.6	5452.4	5459.3	5454.7	5464.0
5°	5494.2	5454.7	5477.9	5438.4	5438.4	5401.2	5454.7	5454.7	5440.7	5445.4
7.5°	5512.8	5473.3	5489.6	5445.4	5447.7	5403.6	5468.6	5461.7	5450.0	5466.3
10°	5566.2	5522.1	5519.8	5477.9	5487.2	5440.7	5522.1	5522.1	5510.5	5540.7
12.5°	5652.2	5587.2	5575.5	5524.4	5543.0	5503.5	5603.4	5608.1	5610.4	5659.2
15°	5742.9	5663.9	5675.5	5615.1	5608.1	5587.2	5677.8	5673.2	5670.8	5738.2
17.5°	5870.7	5498.8	5438.4	5396.6	5387.3	5336.2	5419.8	5580.2	5496.5	5450.0
20°	5668.5	5473.3	5233.9	5152.6	5136.3	4692.4	4341.4	4499.5	4713.3	4731.9
22.5°	5484.9	5415.2	5396.6	5268.8	4559.9	4411.2	4425.1	4367.0	3860.4	3639.6
25°	5712.7	5652.2	5573.2	4792.3	4625.0	4571.5	4555.3	3960.3	3560.5	3586.1
27.5°	5966.0	5898.6	5210.7	4803.9	4841.1	4766.8	4399.5	3695.3	3672.1	3716.3
30°	6282.1	5742.9	5085.2	5061.9	5096.8	5001.5	3909.2	3858.0	3851.1	3897.5
32.5°	6642.3	5538.4	5419.8	5419.8	5403.6	4374.0	4118.3	4083.5	4102.1	4150.9
35°	6507.5	5859.1	5845.1	5903.2	5512.8	4487.9	4453.0	4392.6	4406.5	4422.8
37.5°	6358.8	6386.7	6393.6	6363.4	4020.7	4813.2	4785.3	4773.7	4759.8	4764.4
40°	6911.9	6930.5	6923.5	6647.0	4339.1	4876.0	5161.9	5140.9	5138.6	5166.5
42.5°	7558.0	7609.1	7569.6	5863.7	4764.4	4099.7	5596.5	5584.8	5580.2	5638.3
45°	8285.5	8334.3	7504.6	6279.8	5217.6	4243.8	5626.7	6059.0	6093.8	6145.0
47.5°	9073.3	9064.0	6925.9	6918.9	5749.9	4643.6	4678.4	6626.0	6684.1	6702.7
50°	9979.7	8490.0	7583.6	7327.9	6351.8	5092.1	4959.7	6079.9	7362.8	7381.4
52.5°	9786.8	8399.3	8338.9	6428.5	6891.0	5587.2	5457.0	5422.2	7632.4	8080.9
55°	9122.1	9191.9	9105.9	7053.7	5052.6	6028.7	5947.4	5912.5	5677.8	4494.8
57.5°	9861.2	9882.1	9807.8	7627.7	5138.6	3758.1	5854.4	5022.4	3263.1	3246.8
60°	10628.2	10663.0	7304.7	5603.4	3293.3	1257.3	299.8	316.1	901.8	792.5
62.5°	11360.3	11395.1	7732.3	5120.0	2080.1	93.0	60.4	41.8	46.5	46.5
65°	12315.5	12329.4	8276.2	5419.8	2161.4	23.2	7.0	0.0	0.0	0.0
67.5°	12810.5	12524.6	8413.3	5557.0	2219.5	13.9	4.6	0.0	0.0	0.0
70°	12062.1	11755.4	7832.3	5208.3	2068.5	11.6	2.3	0.0	0.0	0.0
72.5°	10628.2	10479.4	7030.4	4618.0	1831.4	7.0	2.3	0.0	0.0	0.0
75°	8808.4	8610.8	5828.9	3848.7	1515.3	4.6	0.0	0.0	0.0	0.0
77.5°	6265.8	6289.0	4062.5	2805.2	1031.9	4.6	0.0	0.0	0.0	0.0
80°	2742.5	2805.2	1780.3	1287.6	364.9	2.3	0.0	0.0	0.0	0.0
82.5°	522.9	481.1	232.4	183.6	46.5	0.0	0.0	0.0	0.0	0.0
85°	172.0	188.3	86.0	69.7	20.9	0.0	0.0	0.0	0.0	0.0
87.5°	60.4	76.7	25.6	20.9	4.6	0.0	0.0	0.0	0.0	0.0
90°	9.3	9.3	0.0	0.0	0.0	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	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P579389  
 CATALOG NUMBER: CST-CA10-630-722-U-T5-HSS-HM-EX180

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
170°	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
175°	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
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)