

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: P510495

Luminaire Tested: **CST-CA10-310-750-U-T1**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510495  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-CA10-310-750-U-T1  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (10) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51270 lumens  
Efficiency: N/A  
Efficacy: 164.1 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

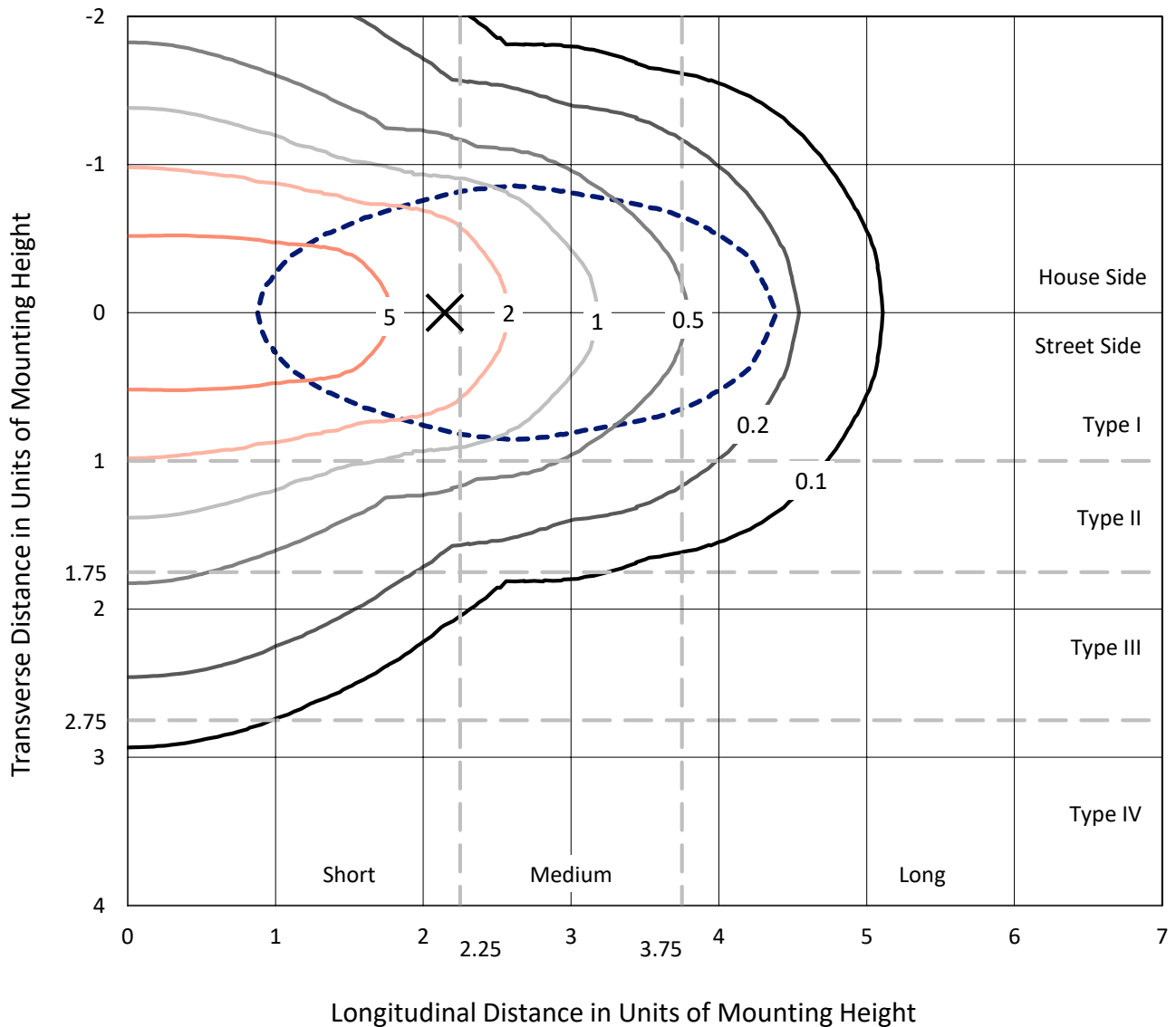
Input Watts (W): 312.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

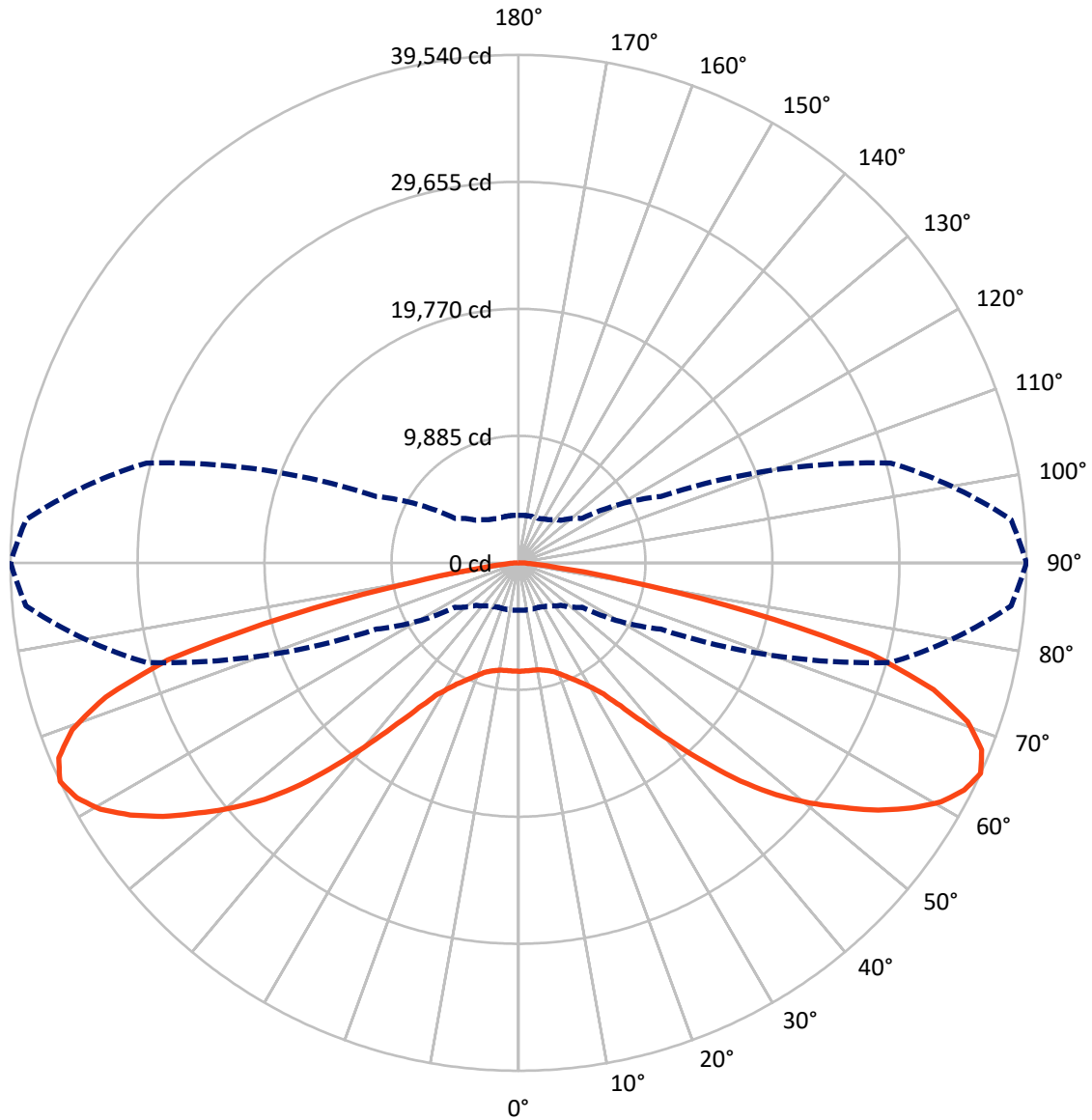
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.5 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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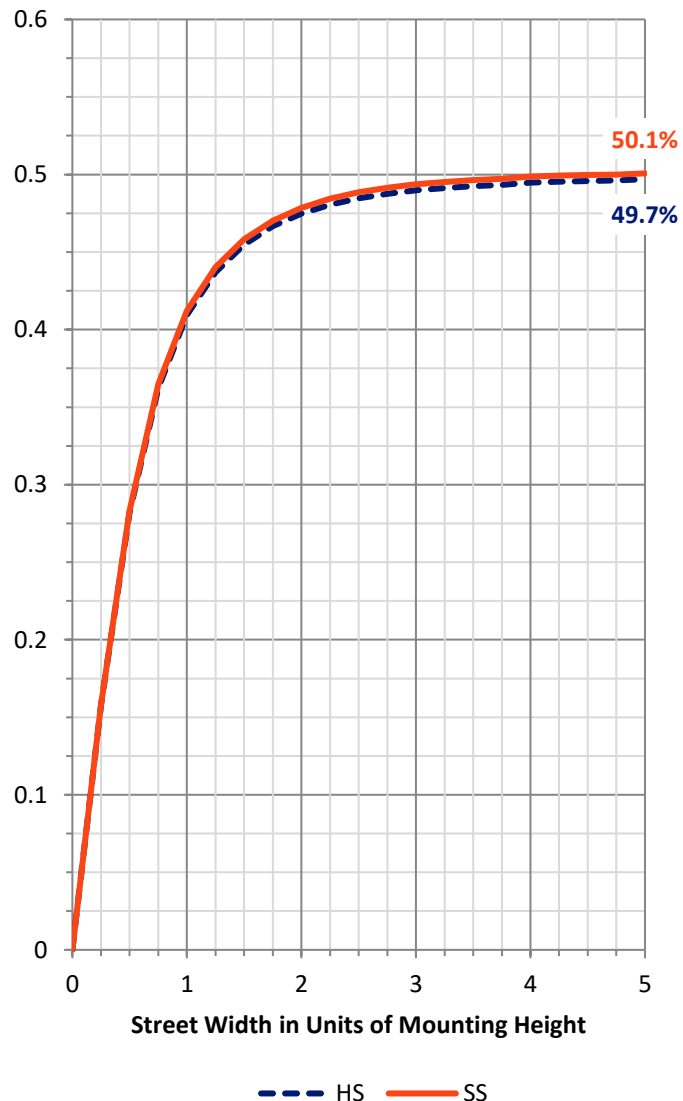
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	25635.0	0.0	25635.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25635.0	0.0	25635.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	51270.0	0.0	51270.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	801.6	1.6
10°-20°	2365.4	4.6
20°-30°	3896.4	7.6
30°-40°	5708.7	11.1
40°-50°	8440.9	16.5
50°-60°	11072.3	21.6
60°-70°	11551.5	22.5
70°-80°	6641.5	13.0
80°-90°	791.7	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	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°	51270.0	100.0
0°-180°	51270.0	100.0

**Coefficient of Utilization**

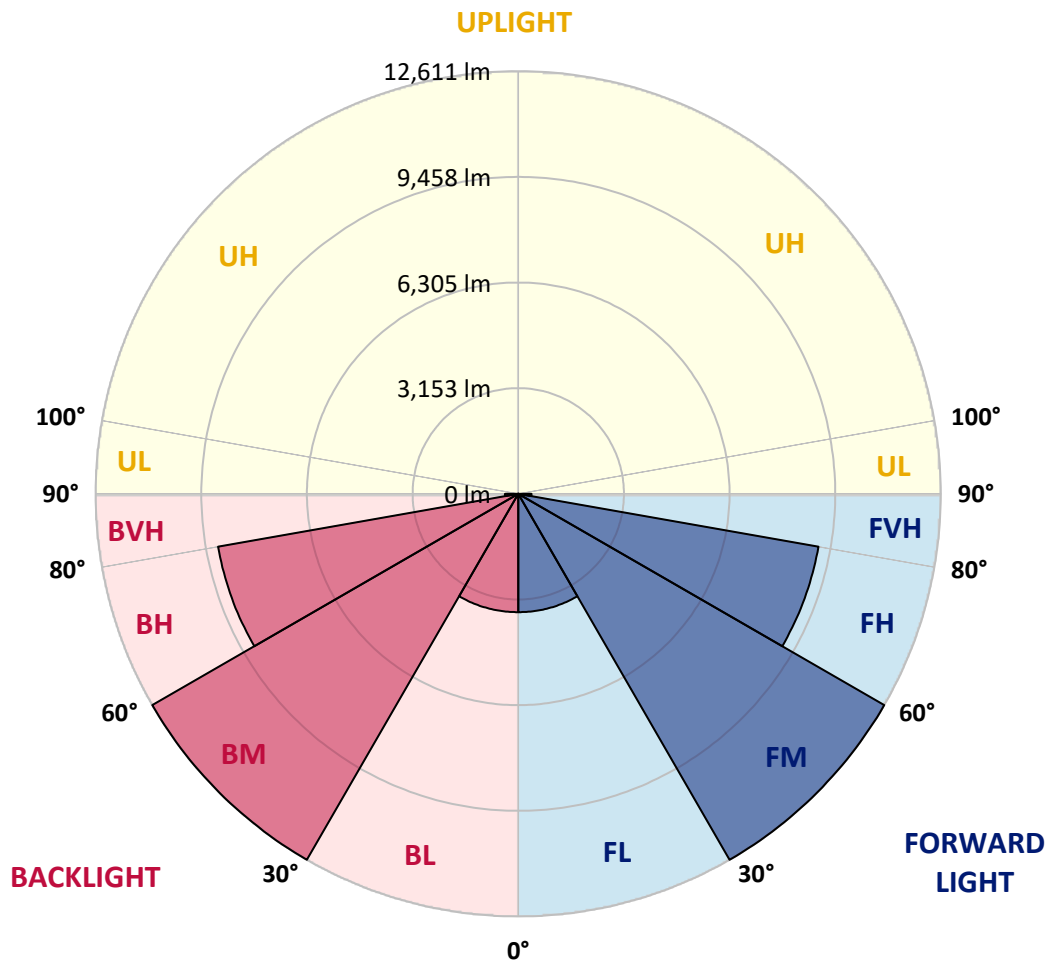


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3531.7	6.9			
FM (30°-60°)	12610.9	24.6			
FH (60°-80°)	9096.5	17.7			G4/12000
FVH (80°-90°)	395.9	0.8			G3/500
BL (0°-30°)	3531.7	6.9	B4/5000		
BM (30°-60°)	12610.9	24.6	B5		
BH (60°-80°)	9096.5	17.7	B5		G5
BVH (80°-90°)	395.9	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	8446.6	8446.6	8446.6	8446.6	8446.6	8446.6	8446.6	8446.6	8446.6	8446.6	8446.6
2.5°	8444.6	8438.6	8436.6	8433.6	8438.6	8442.6	8452.6	8461.6	8459.6	8457.6	8459.6
5°	8397.5	8400.5	8401.5	8402.5	8406.5	8409.5	8423.5	8437.6	8435.6	8433.6	8443.6
7.5°	8331.3	8331.3	8329.3	8327.3	8335.3	8342.4	8356.4	8370.4	8381.4	8391.5	8407.5
10°	8235.1	8231.1	8230.1	8229.1	8238.1	8246.2	8272.2	8298.3	8320.3	8341.4	8368.4
12.5°	8117.9	8116.9	8118.9	8120.9	8139.9	8159.0	8203.1	8247.2	8291.3	8335.3	8374.4
15°	7978.6	7966.6	7976.6	7985.6	8016.7	8046.7	8131.9	8217.1	8284.2	8350.4	8426.5
17.5°	7766.2	7754.1	7769.2	7783.2	7845.3	7907.5	8027.7	8147.0	8273.2	8399.5	8508.7
20°	7444.5	7444.5	7482.6	7520.7	7625.9	7731.1	7896.4	8060.8	8231.1	8401.5	8559.8
22.5°	7101.8	7091.8	7172.9	7254.1	7380.4	7505.6	7714.1	7922.5	8148.0	8372.4	8589.9
25°	6715.0	6732.0	6834.2	6935.4	7112.8	7289.2	7545.7	7801.2	8084.8	8368.4	8670.0
27.5°	6388.3	6391.3	6514.6	6637.8	6860.3	7081.7	7393.4	7705.0	8050.8	8396.5	8776.3
30°	6050.6	6105.7	6236.0	6365.2	6613.8	6862.3	7239.1	7614.8	8024.7	8434.6	8897.5
32.5°	5791.1	5804.1	5951.4	6097.7	6357.2	6616.8	7054.7	7492.6	7984.6	8476.6	9039.8
35°	5546.5	5567.6	5704.9	5842.2	6112.7	6382.3	6862.3	7341.3	7929.5	8516.7	9194.1
37.5°	5329.1	5355.1	5485.4	5615.7	5876.2	6136.8	6645.8	7154.9	7844.3	8533.8	9363.5
40°	5169.8	5191.8	5302.0	5412.3	5647.8	5882.2	6415.4	6947.5	7725.1	8502.7	9496.8
42.5°	5054.5	5064.5	5153.7	5242.9	5453.4	5663.8	6191.9	6719.0	7569.8	8420.5	9600.0
45°	4898.2	4920.2	5008.4	5095.6	5285.0	5473.4	5956.4	6439.4	7339.3	8238.1	9601.0
47.5°	4782.0	4796.0	4879.2	4961.3	5137.7	5314.1	5748.0	6181.9	7078.7	7974.6	9492.8
50°	4696.8	4689.8	4766.9	4843.1	4992.4	5140.7	5527.5	5913.3	6756.1	7598.8	9222.2
52.5°	4575.5	4583.5	4645.7	4707.8	4837.1	4965.3	5312.1	5657.8	6398.3	7137.9	8783.3
55°	4413.2	4450.3	4502.4	4553.5	4666.7	4779.9	5091.6	5403.2	6040.6	6676.9	8218.1
57.5°	4253.9	4280.9	4325.0	4369.1	4458.3	4546.5	4840.1	5133.7	5663.8	6193.9	7504.6
60°	4123.6	4130.6	4158.7	4185.7	4253.9	4322.0	4564.5	4807.0	5270.0	5731.9	6793.1
62.5°	3955.2	3957.2	3976.3	3995.3	4037.4	4078.5	4268.9	4458.3	4853.1	5247.9	6085.7
65°	3691.7	3707.7	3725.8	3742.8	3770.8	3797.9	3943.2	4088.5	4384.1	4679.7	5355.1
67.5°	3425.1	3411.1	3432.1	3453.2	3457.2	3461.2	3571.4	3681.7	3924.2	4166.7	4709.8
70°	2991.2	3002.2	3000.2	2997.2	2980.2	2962.2	3039.3	3116.5	3244.8	3372.0	3764.8
72.5°	2293.8	2278.7	2240.7	2201.6	2183.5	2165.5	2255.7	2344.9	2439.1	2533.3	2816.9
75°	1401.9	1445.0	1524.2	1602.3	1632.4	1662.5	1657.4	1651.4	1643.4	1635.4	1989.1
77.5°	950.0	973.0	991.1	1008.1	1052.2	1095.3	1145.4	1195.5	1194.5	1193.5	1415.9
80°	604.3	586.2	594.2	602.3	627.3	652.4	728.5	803.7	824.7	844.8	998.1
82.5°	378.8	381.8	391.8	400.8	372.8	344.7	403.8	462.0	512.1	561.2	632.3
85°	245.5	278.6	273.6	268.6	235.5	202.4	254.5	306.6	330.7	353.7	380.8
87.5°	79.2	92.2	95.2	97.2	97.2	96.2	107.2	118.2	122.3	125.3	135.3
90°	0.0	0.0	0.0	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	0.0
95°	0.0	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	0.0
100°	0.0	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	0.0
105°	0.0	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	0.0
110°	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):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	8446.6	8446.6	8446.6	8446.6	8446.6	8446.6	8446.6	8446.6
2.5°	8460.6	8450.6	8440.6	8437.6	8434.6	8432.6	8430.5	8428.5
5°	8452.6	8450.6	8448.6	8440.6	8432.6	8431.5	8430.5	8433.6
7.5°	8423.5	8423.5	8423.5	8432.6	8441.6	8437.6	8432.6	8438.6
10°	8394.5	8418.5	8442.6	8449.6	8456.6	8461.6	8466.6	8471.6
12.5°	8413.5	8454.6	8494.7	8517.7	8540.8	8552.8	8563.8	8566.8
15°	8502.7	8554.8	8606.9	8638.0	8668.0	8688.1	8708.1	8713.1
17.5°	8617.9	8698.1	8777.3	8822.4	8867.5	8890.5	8912.6	8905.5
20°	8717.1	8827.4	8937.6	9033.8	9130.0	9183.1	9235.2	9241.2
22.5°	8806.3	8991.7	9177.1	9301.4	9424.6	9518.8	9613.0	9623.0
25°	8970.7	9213.2	9455.7	9654.1	9852.5	9938.7	10023.9	10074.0
27.5°	9155.1	9479.7	9804.4	10070.0	10335.5	10466.8	10597.1	10604.1
30°	9359.5	9771.3	10182.2	10538.9	10894.7	11055.0	11214.3	11298.5
32.5°	9602.0	10125.1	10647.2	11116.1	11585.1	11828.6	12072.1	12157.3
35°	9870.5	10549.0	11226.4	11872.7	12518.1	12984.0	13450.0	13674.5
37.5°	10193.2	11057.0	11920.8	12891.8	13862.9	14657.5	15451.2	15677.6
40°	10490.8	11602.1	12712.5	14061.3	15410.1	16670.7	17930.3	18175.8
42.5°	10779.4	12124.2	13469.0	15308.9	17148.7	18836.2	20523.7	21162.0
45°	10962.8	12589.2	14214.6	16640.6	19066.7	21383.5	23699.3	24235.4
47.5°	11009.9	12920.9	14831.9	17837.1	20842.4	23569.1	26294.7	26983.2
50°	10845.6	13093.3	15340.9	19307.2	23272.4	26049.2	28825.0	29390.2
52.5°	10428.7	13038.1	15647.6	20446.6	25245.5	28184.7	31123.8	31636.8
55°	9759.3	12703.4	15647.6	21384.5	27120.4	30168.8	33216.1	33995.8
57.5°	8815.3	12064.1	15312.9	22010.8	28708.8	32019.6	35330.5	36031.0
60°	7854.3	11303.5	14751.7	22356.5	29961.4	33468.7	36976.0	37793.7
62.5°	6922.4	10270.4	13617.3	21993.8	30370.2	34072.9	37774.6	38951.1
65°	6030.6	9123.0	12215.4	21108.9	30001.4	34244.3	38486.1	39540.3
67.5°	5252.9	8164.0	11075.1	19625.8	28176.6	32872.4	37567.2	38880.9
70°	4157.7	6836.2	9514.8	16996.4	24477.9	29977.4	35476.8	37098.2
72.5°	3100.5	5372.2	7642.9	13369.8	19096.7	25420.9	31744.1	33784.3
75°	2341.9	4290.9	6240.0	10568.0	14896.0	20250.1	25604.3	28335.0
77.5°	1638.4	3100.5	4561.5	7790.2	11018.9	13983.1	16947.3	18402.3
80°	1150.4	1961.1	2770.8	4324.0	5876.2	7191.0	8504.7	8400.5
82.5°	702.5	1043.2	1382.9	1875.9	2368.9	2686.6	3004.3	2990.2
85°	407.8	496.0	583.2	722.5	861.8	1019.1	1176.4	1046.2
87.5°	144.3	144.3	144.3	165.3	186.4	256.5	326.7	344.7
90°	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
95°	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
100°	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
105°	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
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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 CATALOG NUMBER: CST-CA10-310-750-U-T1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	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
117.5°	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
122.5°	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
127.5°	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
132.5°	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
137.5°	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
142.5°	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
147.5°	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
152.5°	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
157.5°	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
162.5°	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
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)