

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: P510805

Luminaire Tested: **CST-CA8-330-760-U-T1**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510805  
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-CA8-330-760-U-T1  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (8) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 50697 lumens  
Efficiency: N/A  
Efficacy: 152.9 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

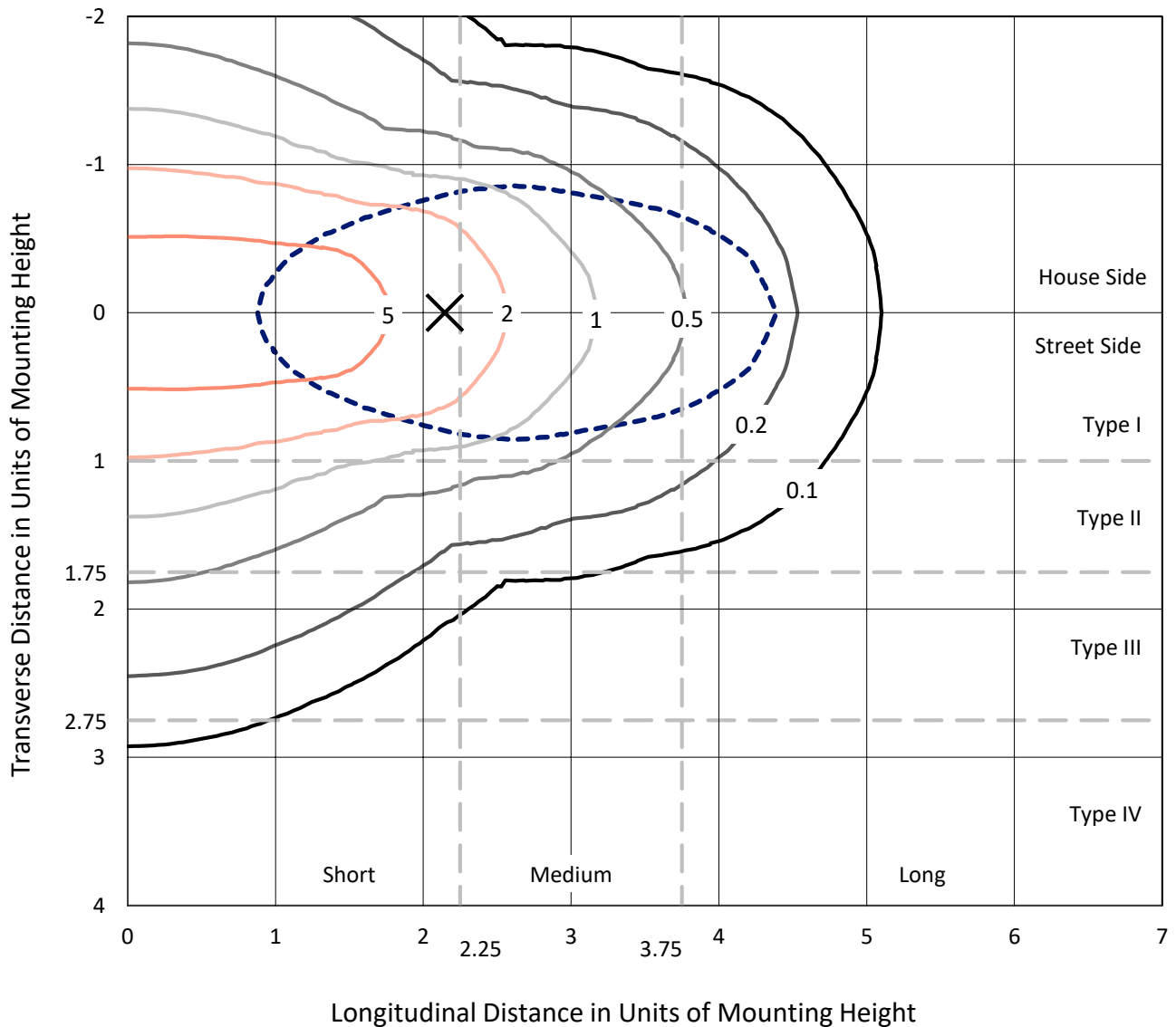
Input Watts (W): 331.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

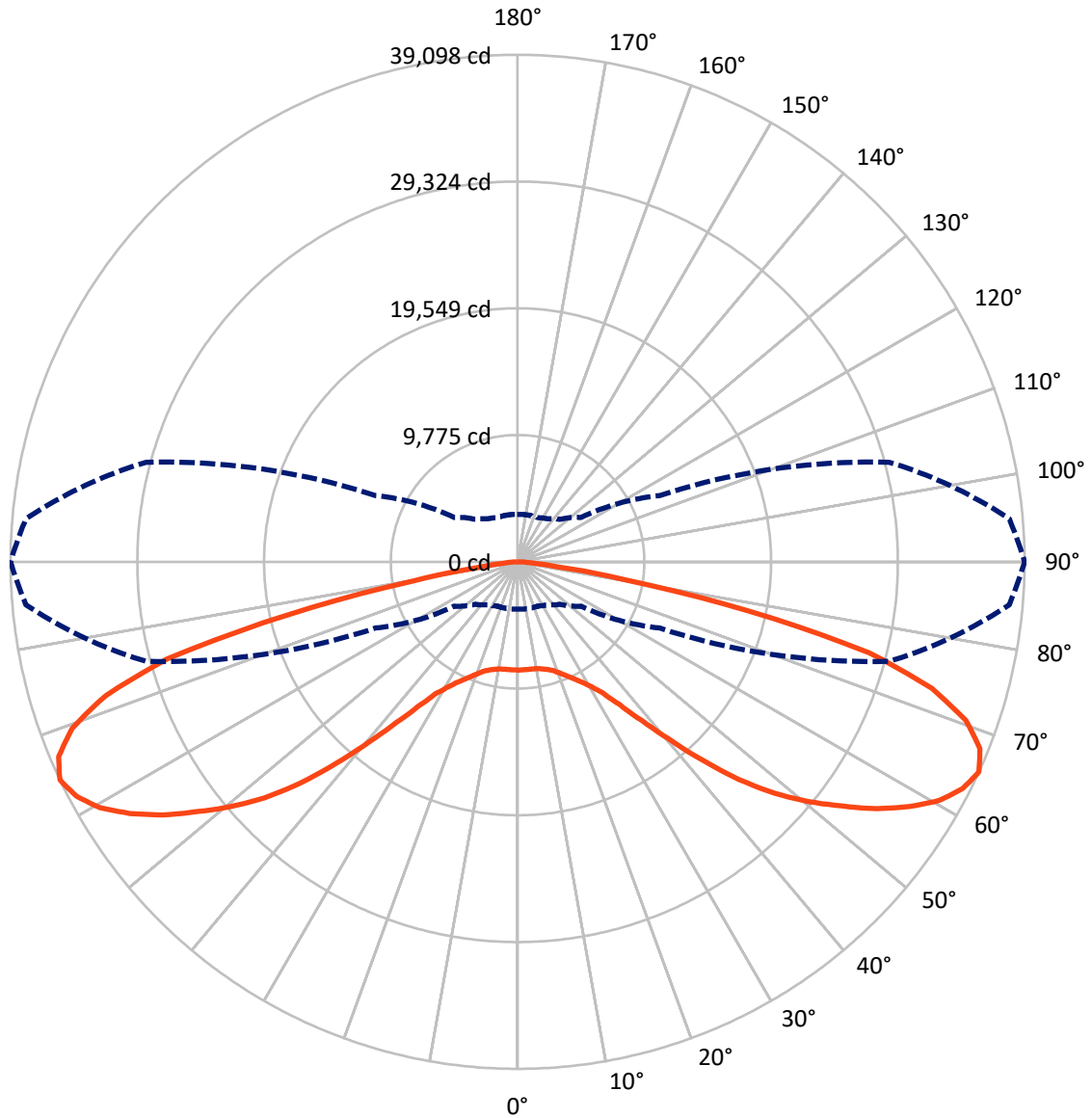
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.4 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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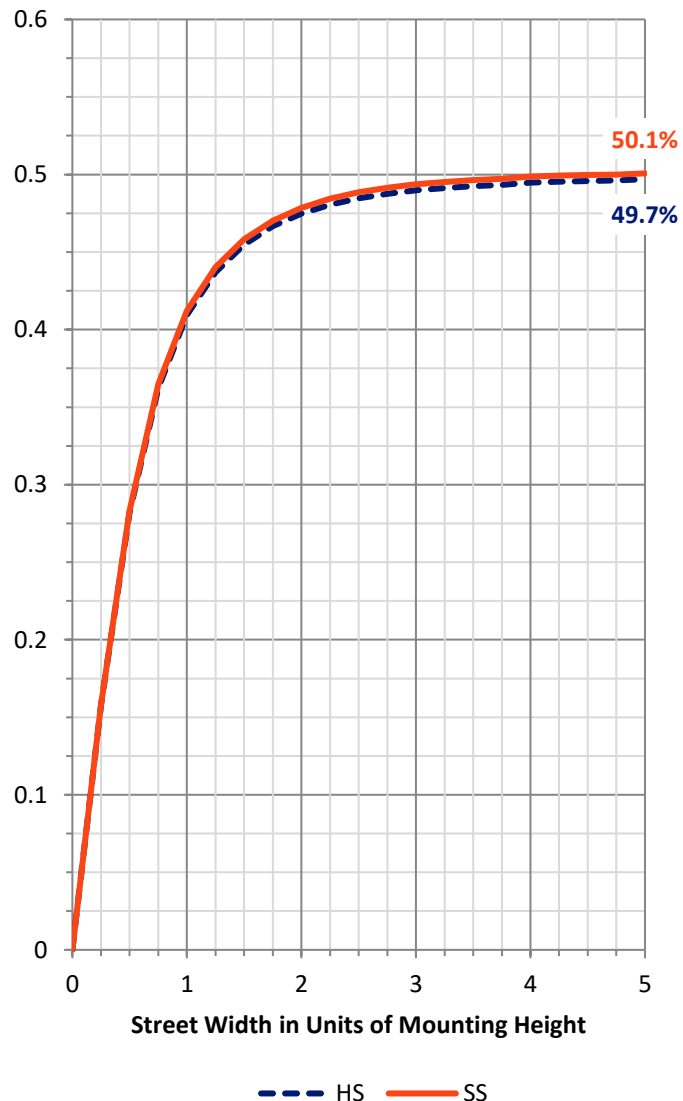
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	25348.5	0.0	25348.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25348.5	0.0	25348.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	50697.0	0.0	50697.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	792.6	1.6
10°-20°	2339.0	4.6
20°-30°	3852.8	7.6
30°-40°	5644.9	11.1
40°-50°	8346.6	16.5
50°-60°	10948.6	21.6
60°-70°	11422.4	22.5
70°-80°	6567.3	13.0
80°-90°	782.9	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°	50697.0	100.0
0°-180°	50697.0	100.0

**Coefficient of Utilization**

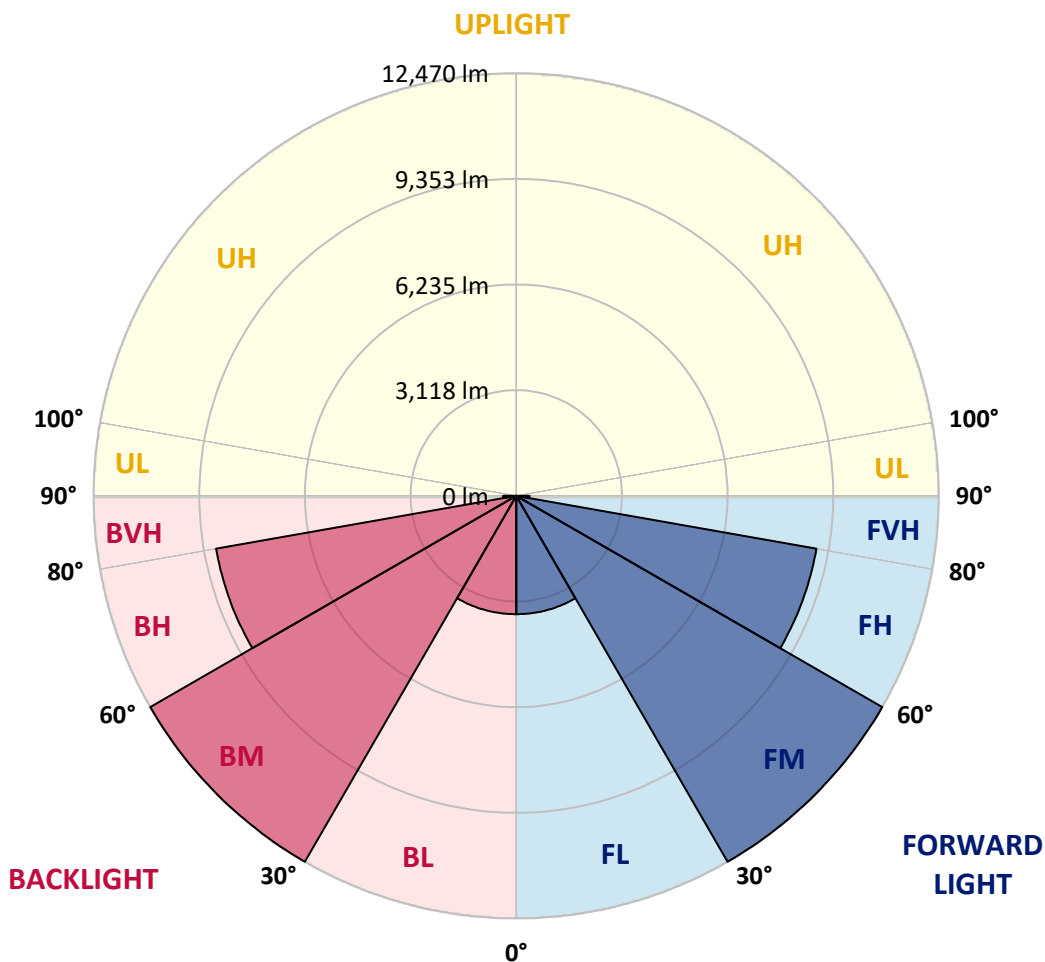


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3492.2	6.9			
FM (30°-60°)	12470.0	24.6			
FH (60°-80°)	8994.9	17.7			G4/12000
FVH (80°-90°)	391.4	0.8			G3/500
BL (0°-30°)	3492.2	6.9	B4/5000		
BM (30°-60°)	12470.0	24.6	B5		
BH (60°-80°)	8994.9	17.7	B5		G5
BVH (80°-90°)	391.4	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°	8352.2	8352.2	8352.2	8352.2	8352.2	8352.2	8352.2	8352.2	8352.2	8352.2	8352.2
2.5°	8350.2	8344.3	8342.3	8339.3	8344.3	8348.2	8358.1	8367.0	8365.1	8363.1	8365.1
5°	8303.6	8306.6	8307.6	8308.6	8312.5	8315.5	8329.4	8343.3	8341.3	8339.3	8349.2
7.5°	8238.2	8238.2	8236.2	8234.3	8242.2	8249.1	8263.0	8276.9	8287.8	8297.7	8313.5
10°	8143.1	8139.1	8138.1	8137.2	8146.1	8154.0	8179.8	8205.5	8227.3	8248.1	8274.9
12.5°	8027.2	8026.2	8028.2	8030.1	8049.0	8067.8	8111.4	8155.0	8198.6	8242.2	8280.8
15°	7889.4	7877.5	7887.5	7896.4	7927.1	7956.8	8041.0	8125.3	8191.7	8257.1	8332.4
17.5°	7679.4	7667.5	7682.3	7696.2	7757.6	7819.1	7938.0	8055.9	8180.8	8305.6	8413.6
20°	7361.3	7361.3	7398.9	7436.6	7540.6	7644.7	7808.2	7970.7	8139.1	8307.6	8464.2
22.5°	7022.4	7012.5	7092.8	7173.0	7297.9	7421.7	7627.8	7833.9	8056.9	8278.9	8493.9
25°	6639.9	6656.8	6757.8	6857.9	7033.3	7207.7	7461.4	7714.0	7994.5	8274.9	8573.1
27.5°	6316.9	6319.9	6441.8	6563.6	6783.6	7002.6	7310.8	7618.9	7960.8	8302.6	8678.2
30°	5983.0	6037.5	6166.3	6294.1	6539.8	6785.6	7158.2	7529.7	7935.0	8340.3	8798.1
32.5°	5726.3	5739.2	5884.9	6029.5	6286.2	6542.8	6975.8	7408.9	7895.4	8381.9	8938.8
35°	5484.6	5505.4	5641.1	5776.9	6044.4	6311.0	6785.6	7259.2	7840.9	8421.5	9091.4
37.5°	5269.5	5295.3	5424.1	5552.9	5810.6	6068.2	6571.6	7074.9	7756.7	8438.4	9258.8
40°	5112.0	5133.8	5242.8	5351.8	5584.6	5816.5	6343.7	6869.8	7638.7	8407.7	9390.6
42.5°	4998.0	5007.9	5096.1	5184.3	5392.4	5600.5	6122.7	6643.9	7485.2	8326.4	9492.7
45°	4843.5	4865.3	4952.4	5038.7	5225.9	5412.2	5889.8	6367.4	7257.3	8146.1	9493.7
47.5°	4728.5	4742.4	4824.6	4905.9	5080.3	5254.7	5683.7	6112.8	6999.6	7885.5	9386.7
50°	4644.3	4637.3	4713.6	4789.0	4936.6	5083.2	5465.7	5847.2	6680.6	7513.9	9119.1
52.5°	4524.4	4532.3	4593.7	4655.2	4783.0	4909.8	5252.7	5594.5	6326.8	7058.1	8685.1
55°	4363.9	4400.5	4452.1	4502.6	4614.6	4726.5	5034.7	5342.9	5973.1	6602.3	8126.3
57.5°	4206.3	4233.1	4276.7	4320.3	4408.5	4495.7	4786.0	5076.3	5600.5	6124.7	7420.7
60°	4077.5	4084.4	4112.2	4138.9	4206.3	4273.7	4513.5	4753.3	5211.1	5667.9	6717.2
62.5°	3911.0	3913.0	3931.8	3950.7	3992.3	4032.9	4221.2	4408.5	4798.9	5189.3	6017.7
65°	3650.4	3666.3	3684.1	3701.0	3728.7	3755.5	3899.1	4042.8	4335.1	4627.4	5295.3
67.5°	3386.8	3373.0	3393.8	3414.6	3418.6	3422.5	3531.5	3640.5	3880.3	4120.1	4657.2
70°	2957.8	2968.7	2966.7	2963.7	2946.9	2929.1	3005.4	3081.7	3208.5	3334.3	3722.8
72.5°	2268.1	2253.3	2215.6	2177.0	2159.1	2141.3	2230.5	2318.7	2411.8	2505.0	2785.4
75°	1386.2	1428.9	1507.1	1584.4	1614.2	1643.9	1638.9	1633.0	1625.1	1617.1	1966.9
77.5°	939.4	962.2	980.0	996.8	1040.4	1083.0	1132.6	1182.1	1181.1	1180.1	1400.1
80°	597.5	579.7	587.6	595.5	620.3	645.1	720.4	794.7	815.5	835.3	986.9
82.5°	374.6	377.5	387.4	396.4	368.6	340.9	399.3	456.8	506.3	554.9	625.2
85°	242.8	275.5	270.5	265.6	232.9	200.2	251.7	303.2	327.0	349.8	376.5
87.5°	78.3	91.2	94.1	96.1	96.1	95.1	106.0	116.9	120.9	123.9	133.8
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°	8352.2	8352.2	8352.2	8352.2	8352.2	8352.2	8352.2	8352.2
2.5°	8366.1	8356.1	8346.2	8343.3	8340.3	8338.3	8336.3	8334.3
5°	8358.1	8356.1	8354.2	8346.2	8338.3	8337.3	8336.3	8339.3
7.5°	8329.4	8329.4	8329.4	8338.3	8347.2	8343.3	8338.3	8344.3
10°	8300.7	8324.4	8348.2	8355.2	8362.1	8367.0	8372.0	8377.0
12.5°	8319.5	8360.1	8399.7	8422.5	8445.3	8457.2	8468.1	8471.1
15°	8407.7	8459.2	8510.7	8541.4	8571.2	8591.0	8610.8	8615.8
17.5°	8521.6	8600.9	8679.2	8723.8	8768.4	8791.1	8812.9	8806.0
20°	8619.7	8728.7	8837.7	8932.8	9028.0	9080.5	9132.0	9138.0
22.5°	8707.9	8891.2	9074.5	9197.4	9319.3	9412.4	9505.6	9515.5
25°	8870.4	9110.2	9350.0	9546.2	9742.4	9827.6	9911.8	9961.4
27.5°	9052.7	9373.8	9694.8	9957.4	10220.0	10349.8	10478.6	10485.6
30°	9254.9	9662.1	10068.4	10421.2	10772.9	10931.5	11089.0	11172.2
32.5°	9494.7	10011.9	10528.2	10991.9	11455.6	11696.4	11937.2	12021.4
35°	9760.2	10431.1	11100.9	11740.0	12378.2	12838.9	13299.7	13521.6
37.5°	10079.3	10933.4	11787.6	12747.8	13707.9	14493.7	15278.5	15502.4
40°	10373.6	11472.5	12570.4	13904.1	15237.8	16484.4	17729.9	17972.7
42.5°	10659.0	11988.7	13318.5	15137.8	16957.0	18625.7	20294.3	20925.5
45°	10840.3	12448.5	14055.7	16454.7	18853.6	21144.5	23434.5	23964.6
47.5°	10886.9	12776.5	14666.1	17637.8	20609.4	23305.6	26000.9	26681.6
50°	10724.4	12946.9	15169.5	19091.4	23012.3	25758.1	28502.8	29061.7
52.5°	10312.2	12892.4	15472.7	20218.0	24963.4	27869.7	30775.9	31283.3
55°	9650.2	12561.5	15472.7	21145.5	26817.3	29831.6	32844.9	33615.8
57.5°	8716.8	11929.3	15141.7	21764.8	28387.9	31661.8	34935.7	35628.3
60°	7766.6	11177.2	14586.8	22106.7	29626.5	33094.6	36562.7	37371.3
62.5°	6845.0	10155.6	13465.2	21748.0	30030.8	33692.1	37352.4	38515.7
65°	5963.2	9021.0	12078.9	20873.0	29666.1	33861.6	38056.0	39098.4
67.5°	5194.2	8072.8	10951.3	19406.5	27861.7	32505.0	37147.3	38446.4
70°	4111.2	6759.8	9408.5	16806.4	24204.4	29642.4	35080.3	36683.6
72.5°	3065.8	5312.1	7557.5	13220.4	18883.3	25136.8	31389.3	33406.7
75°	2315.7	4243.0	6170.2	10449.9	14729.5	20023.8	25318.1	28018.3
77.5°	1620.1	3065.8	4510.5	7703.1	10895.8	13826.8	16757.9	18196.6
80°	1137.5	1939.2	2739.8	4275.7	5810.6	7110.6	8409.7	8306.6
82.5°	694.6	1031.5	1367.4	1854.9	2342.5	2656.6	2970.7	2956.8
85°	403.3	490.5	576.7	714.4	852.2	1007.7	1163.3	1034.5
87.5°	142.7	142.7	142.7	163.5	184.3	253.7	323.0	340.9
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-CA8-330-760-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)