

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: P510795

Luminaire Tested: **CST-CA8-330-750-U-T1**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510795  
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-CA8-330-750-U-T1  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (8) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51795 lumens  
Efficiency: N/A  
Efficacy: 156.2 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

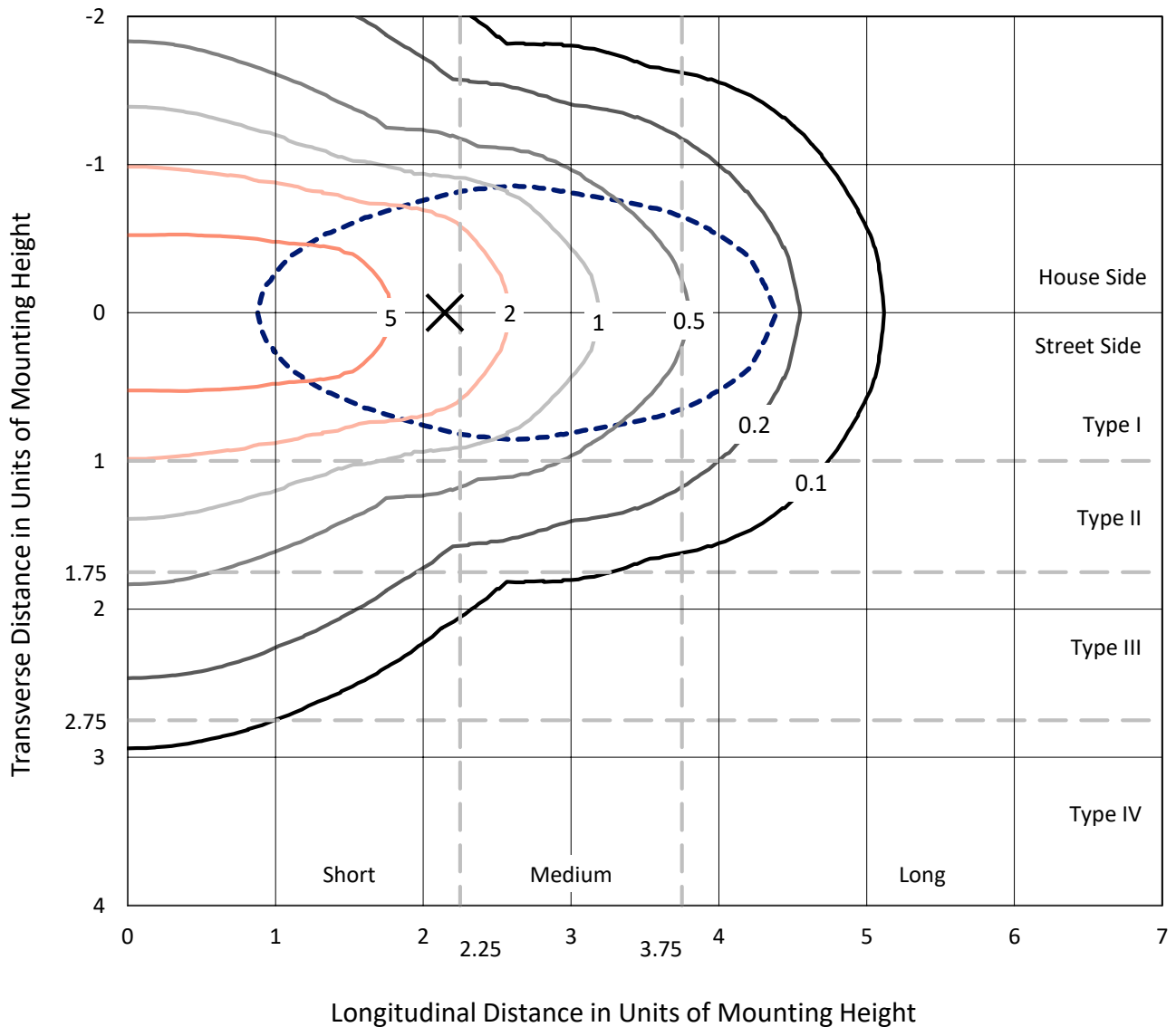
Input Watts (W): 331.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

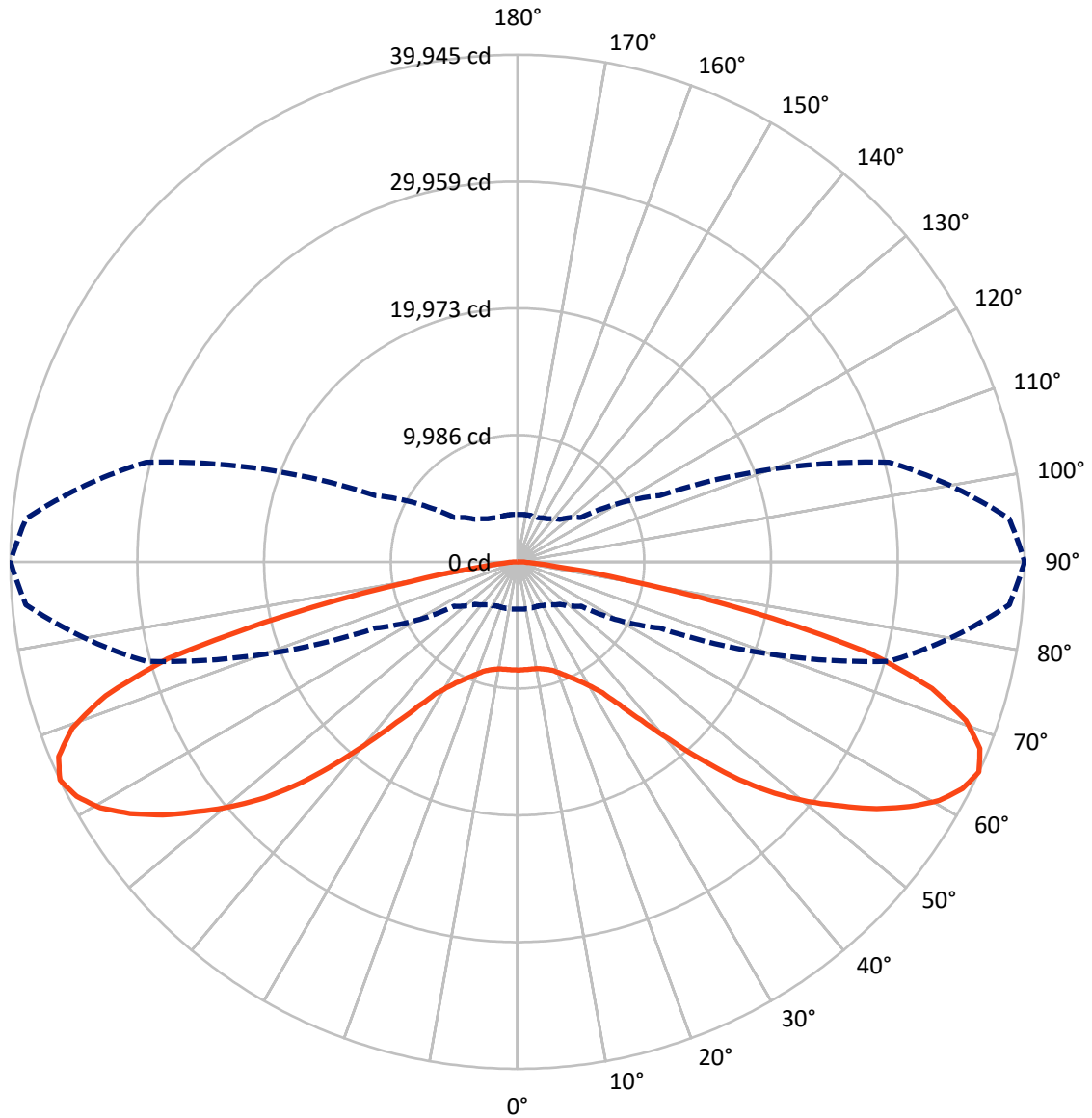
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 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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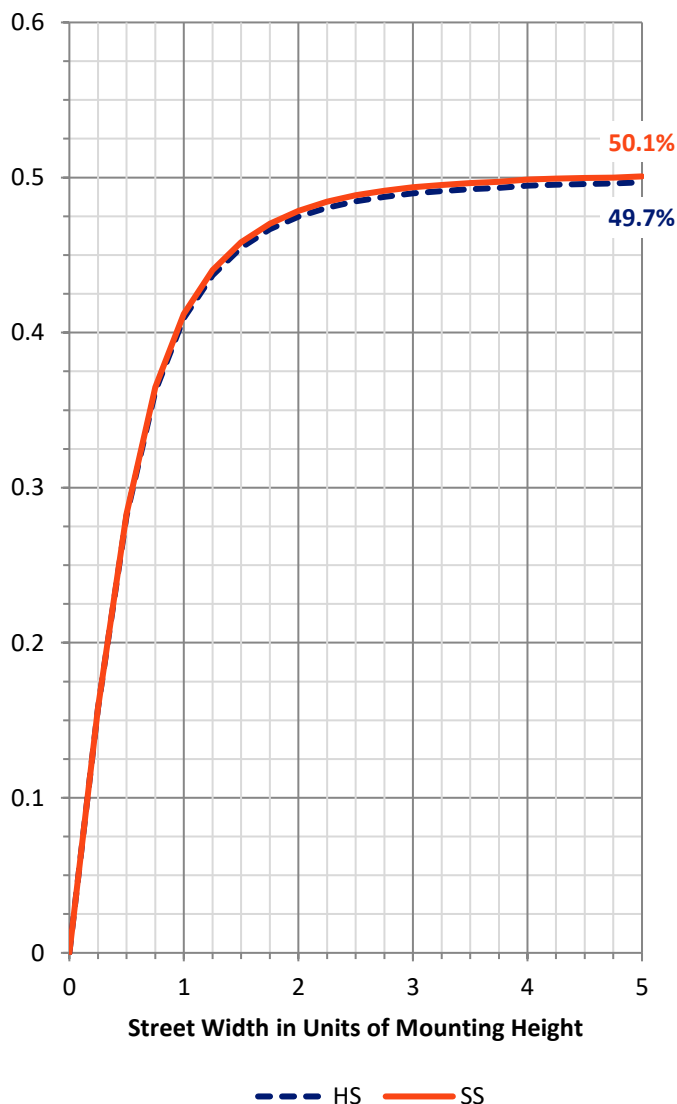
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	25897.5	0.0	25897.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25897.5	0.0	25897.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	51795.0	0.0	51795.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	809.8	1.6
10°-20°	2389.6	4.6
20°-30°	3936.3	7.6
30°-40°	5767.1	11.1
40°-50°	8527.3	16.5
50°-60°	11185.7	21.6
60°-70°	11669.8	22.5
70°-80°	6709.5	13.0
80°-90°	799.8	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°	51795.0	100.0
0°-180°	51795.0	100.0

**Coefficient of Utilization**

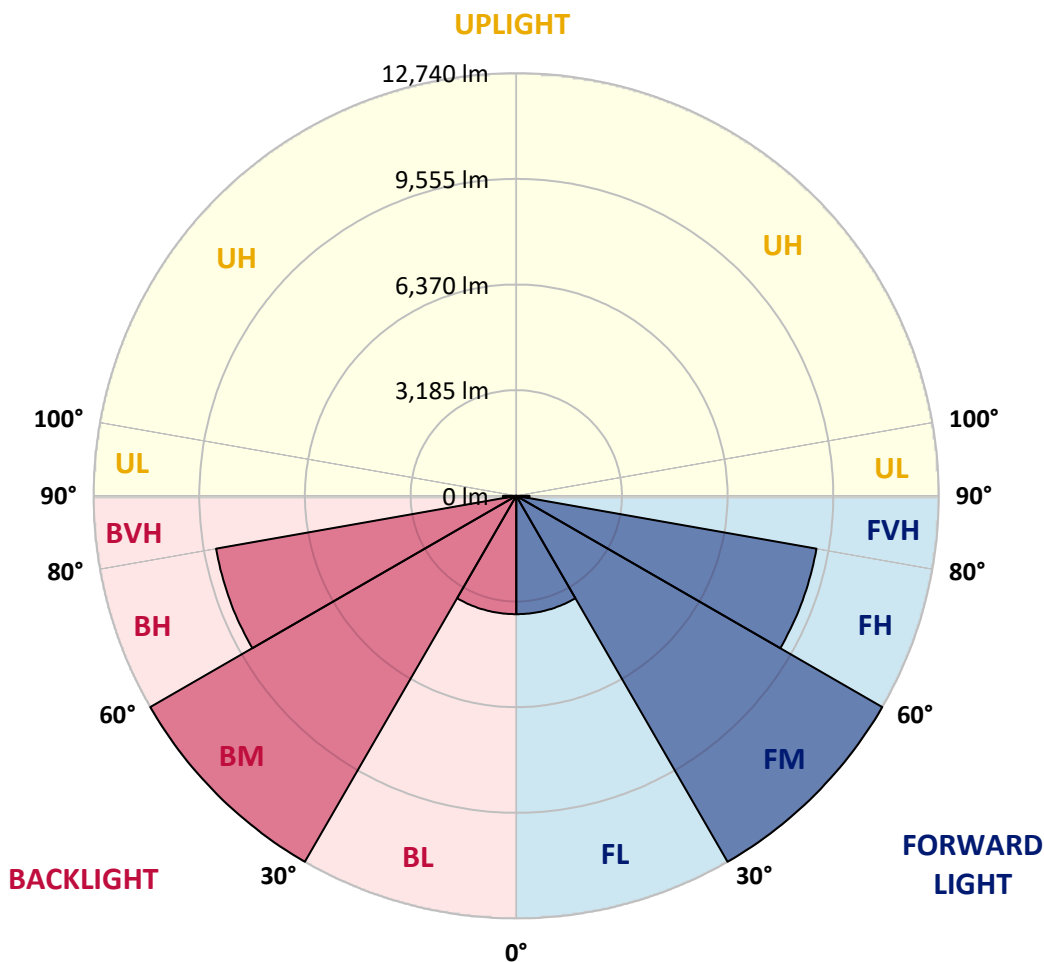


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3567.8	6.9			
FM (30°-60°)	12740.1	24.6			
FH (60°-80°)	9189.7	17.7			G4/12000
FVH (80°-90°)	399.9	0.8			G3/500
BL (0°-30°)	3567.8	6.9	B4/5000		
BM (30°-60°)	12740.1	24.6	B5		
BH (60°-80°)	9189.7	17.7	B5		G5
BVH (80°-90°)	399.9	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°	8533.1	8533.1	8533.1	8533.1	8533.1	8533.1	8533.1	8533.1	8533.1	8533.1	8533.1
2.5°	8531.0	8525.0	8522.9	8519.9	8525.0	8529.0	8539.1	8548.3	8546.2	8544.2	8546.2
5°	8483.5	8486.5	8487.5	8488.5	8492.6	8495.6	8509.8	8524.0	8521.9	8519.9	8530.0
7.5°	8416.7	8416.7	8414.6	8412.6	8420.7	8427.8	8442.0	8456.1	8467.3	8477.4	8493.6
10°	8319.5	8315.4	8314.4	8313.4	8322.5	8330.6	8356.9	8383.2	8405.5	8426.8	8454.1
12.5°	8201.0	8200.0	8202.0	8204.1	8223.3	8242.5	8287.1	8331.6	8376.2	8420.7	8460.2
15°	8060.3	8048.2	8058.3	8067.4	8098.8	8129.1	8215.2	8301.2	8369.1	8435.9	8512.8
17.5°	7845.7	7833.5	7848.7	7862.9	7925.7	7988.4	8109.9	8230.4	8357.9	8485.5	8595.8
20°	7520.7	7520.7	7559.2	7597.7	7704.0	7810.3	7977.3	8143.3	8315.4	8487.5	8647.5
22.5°	7174.5	7164.4	7246.4	7328.4	7455.9	7582.5	7793.0	8003.6	8231.4	8458.2	8677.8
25°	6783.7	6800.9	6904.2	7006.5	7185.6	7363.8	7623.0	7881.1	8167.6	8454.1	8758.8
27.5°	6453.7	6456.7	6581.3	6705.8	6930.5	7154.3	7469.1	7783.9	8133.2	8482.5	8866.1
30°	6112.6	6168.2	6299.8	6430.4	6681.5	6932.6	7313.2	7692.8	8106.9	8520.9	8988.6
32.5°	5850.4	5863.5	6012.3	6160.1	6422.3	6684.5	7126.9	7569.3	8066.4	8563.4	9132.4
35°	5603.3	5624.6	5763.3	5902.0	6175.3	6447.6	6932.6	7416.5	8010.7	8603.9	9288.3
37.5°	5383.7	5410.0	5541.6	5673.2	5936.4	6199.6	6713.9	7228.2	7924.7	8621.1	9459.4
40°	5222.7	5245.0	5356.3	5467.7	5705.6	5942.5	6481.0	7018.6	7804.2	8589.8	9594.0
42.5°	5106.3	5116.4	5206.5	5296.6	5509.2	5721.8	6255.3	6787.8	7647.3	8506.8	9698.3
45°	4948.4	4970.6	5059.7	5147.8	5339.1	5529.4	6017.4	6505.3	7414.4	8322.5	9699.3
47.5°	4830.9	4845.1	4929.1	5012.1	5190.3	5368.5	5806.8	6245.2	7151.2	8056.3	9590.0
50°	4744.9	4737.8	4815.7	4892.7	5043.5	5193.3	5584.1	5973.9	6825.2	7676.6	9316.6
52.5°	4622.4	4630.5	4693.2	4756.0	4886.6	5016.2	5366.5	5715.7	6463.8	7210.9	8873.2
55°	4458.4	4495.8	4548.5	4600.1	4714.5	4828.9	5143.7	5458.6	6102.4	6745.3	8302.3
57.5°	4297.4	4324.7	4369.3	4413.8	4503.9	4593.0	4889.6	5186.3	5721.8	6257.3	7581.5
60°	4165.8	4172.9	4201.2	4228.6	4297.4	4366.3	4611.2	4856.2	5323.9	5790.6	6862.7
62.5°	3995.7	3997.8	4017.0	4036.2	4078.7	4120.3	4312.6	4503.9	4902.8	5301.7	6148.0
65°	3729.5	3745.7	3763.9	3781.1	3809.5	3836.8	3983.6	4130.4	4429.0	4727.7	5410.0
67.5°	3460.2	3446.0	3467.3	3488.5	3492.6	3496.6	3608.0	3719.4	3964.4	4209.3	4758.0
70°	3021.9	3033.0	3031.0	3027.9	3010.7	2992.5	3070.4	3148.4	3278.0	3406.5	3803.4
72.5°	2317.3	2302.1	2263.6	2224.1	2205.9	2187.7	2278.8	2368.9	2464.1	2559.2	2845.7
75°	1416.3	1459.8	1539.8	1618.7	1649.1	1679.5	1674.4	1668.3	1660.2	1652.2	2009.5
77.5°	959.7	983.0	1001.2	1018.4	1063.0	1106.5	1157.1	1207.7	1206.7	1205.7	1430.4
80°	610.4	592.2	600.3	608.4	633.7	659.0	736.0	811.9	833.2	853.4	1008.3
82.5°	382.7	385.7	395.8	404.9	376.6	348.2	408.0	466.7	517.3	566.9	638.8
85°	248.0	281.4	276.4	271.3	237.9	204.5	257.1	309.8	334.1	357.4	384.7
87.5°	80.0	93.1	96.2	98.2	98.2	97.2	108.3	119.5	123.5	126.5	136.7
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°	8533.1	8533.1	8533.1	8533.1	8533.1	8533.1	8533.1	8533.1
2.5°	8547.2	8537.1	8527.0	8524.0	8520.9	8518.9	8516.9	8514.9
5°	8539.1	8537.1	8535.1	8527.0	8518.9	8517.9	8516.9	8519.9
7.5°	8509.8	8509.8	8509.8	8518.9	8528.0	8524.0	8518.9	8525.0
10°	8480.4	8504.7	8529.0	8536.1	8543.2	8548.3	8553.3	8558.4
12.5°	8499.7	8541.2	8581.7	8604.9	8628.2	8640.4	8651.5	8654.6
15°	8589.8	8642.4	8695.0	8726.4	8756.8	8777.0	8797.3	8802.4
17.5°	8706.2	8787.2	8867.1	8912.7	8958.3	8981.5	9003.8	8996.7
20°	8806.4	8917.8	9029.1	9126.3	9223.5	9277.1	9329.8	9335.9
22.5°	8896.5	9083.8	9271.1	9396.6	9521.1	9616.3	9711.4	9721.6
25°	9062.5	9307.5	9552.5	9753.0	9953.4	10040.5	10126.5	10177.1
27.5°	9248.8	9576.8	9904.8	10173.1	10441.3	10574.0	10705.6	10712.7
30°	9455.3	9871.4	10286.5	10646.9	11006.2	11168.2	11329.2	11414.2
32.5°	9700.3	10228.8	10756.2	11230.0	11703.7	11949.7	12195.7	12281.8
35°	9971.6	10657.0	11341.3	11994.3	12646.2	13117.0	13587.7	13814.5
37.5°	10297.6	11170.2	12042.9	13023.8	14004.8	14807.6	15609.4	15838.2
40°	10598.3	11721.0	12842.6	14205.3	15567.9	16841.4	18113.9	18361.9
42.5°	10889.8	12248.4	13607.0	15465.6	17324.3	19029.1	20733.9	21378.7
45°	11075.1	12718.1	14360.1	16811.0	19261.9	21602.5	23942.0	24483.6
47.5°	11122.7	13053.2	14983.7	18019.8	21055.8	23810.4	26564.0	27259.5
50°	10956.6	13227.3	15498.0	19504.9	23510.7	26316.0	29120.2	29691.1
52.5°	10535.5	13171.6	15807.8	20655.9	25504.1	28473.3	31442.5	31960.8
55°	9859.2	12833.5	15807.8	21603.5	27398.2	30477.7	33556.3	34343.9
57.5°	8905.6	12187.6	15469.7	22236.2	29002.7	32347.5	35692.3	36399.9
60°	7934.8	11419.3	14902.8	22585.5	30268.2	33811.4	37354.6	38180.7
62.5°	6993.3	10375.5	13756.8	22219.0	30681.2	34421.8	38161.4	39349.9
65°	6092.3	9216.4	12340.5	21325.1	30308.7	34594.9	38880.2	39945.2
67.5°	5306.7	8247.6	11188.5	19826.8	28465.2	33209.0	37951.9	39279.1
70°	4200.2	6906.2	9612.2	17170.4	24728.6	30284.4	35840.1	37478.1
72.5°	3132.2	5427.2	7721.2	13506.7	19292.3	25681.2	32069.1	34130.3
75°	2365.9	4334.9	6303.9	10676.2	15048.5	20457.5	25866.5	28625.1
77.5°	1655.2	3132.2	4608.2	7870.0	11131.8	14126.3	17120.8	18590.7
80°	1162.2	1981.2	2799.1	4368.3	5936.4	7264.6	8591.8	8486.5
82.5°	709.7	1053.9	1397.0	1895.1	2393.2	2714.1	3035.0	3020.8
85°	412.0	501.1	589.2	729.9	870.6	1029.6	1188.5	1056.9
87.5°	145.8	145.8	145.8	167.0	188.3	259.2	330.0	348.2
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-CA8-330-750-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)