

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: P510435

Luminaire Tested: **CST-CA10-210-750-U-T1**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510435  
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-CA10-210-750-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: 36931 lumens  
Efficiency: N/A  
Efficacy: 173.5 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

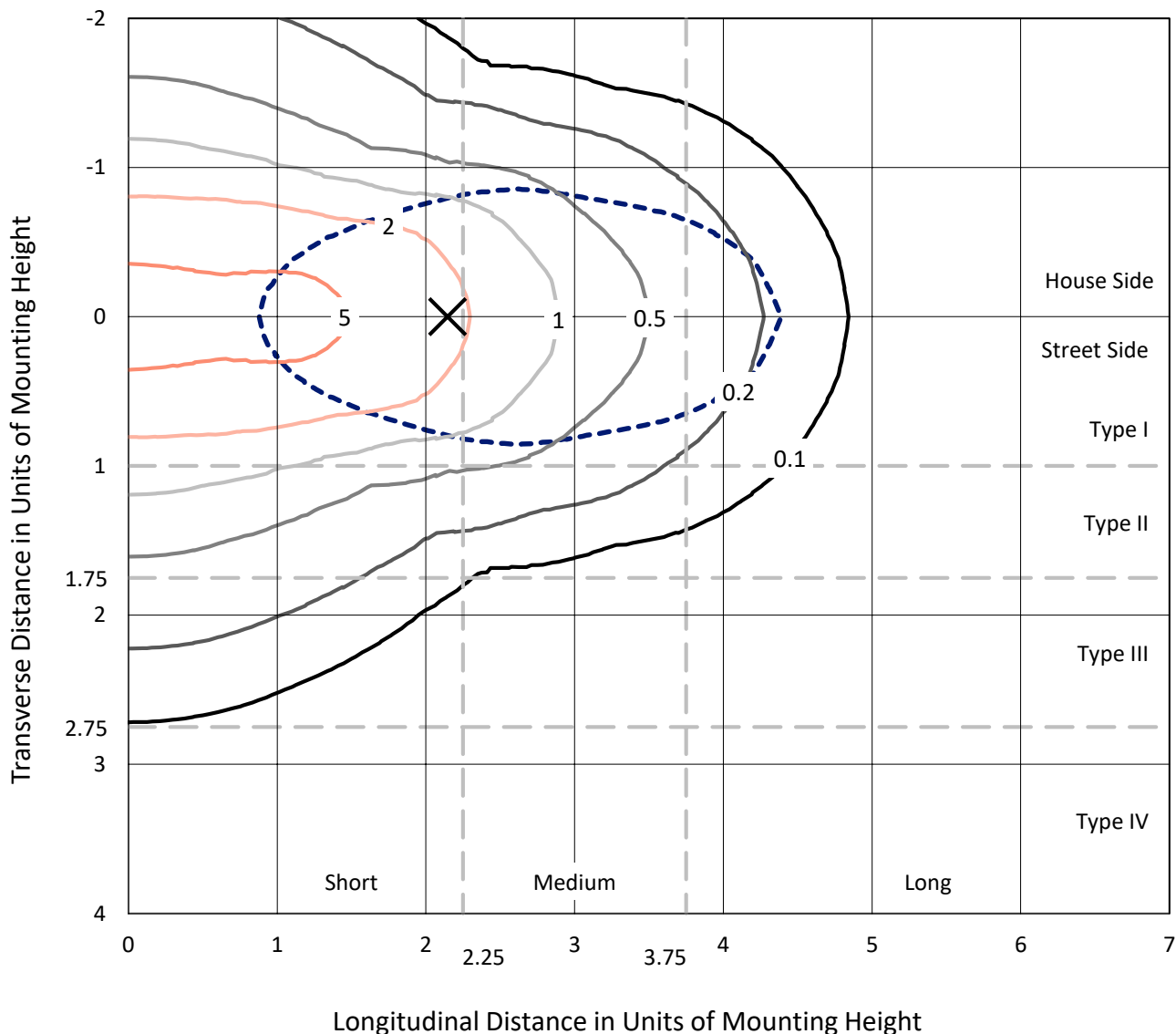
Input Watts (W): 212.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

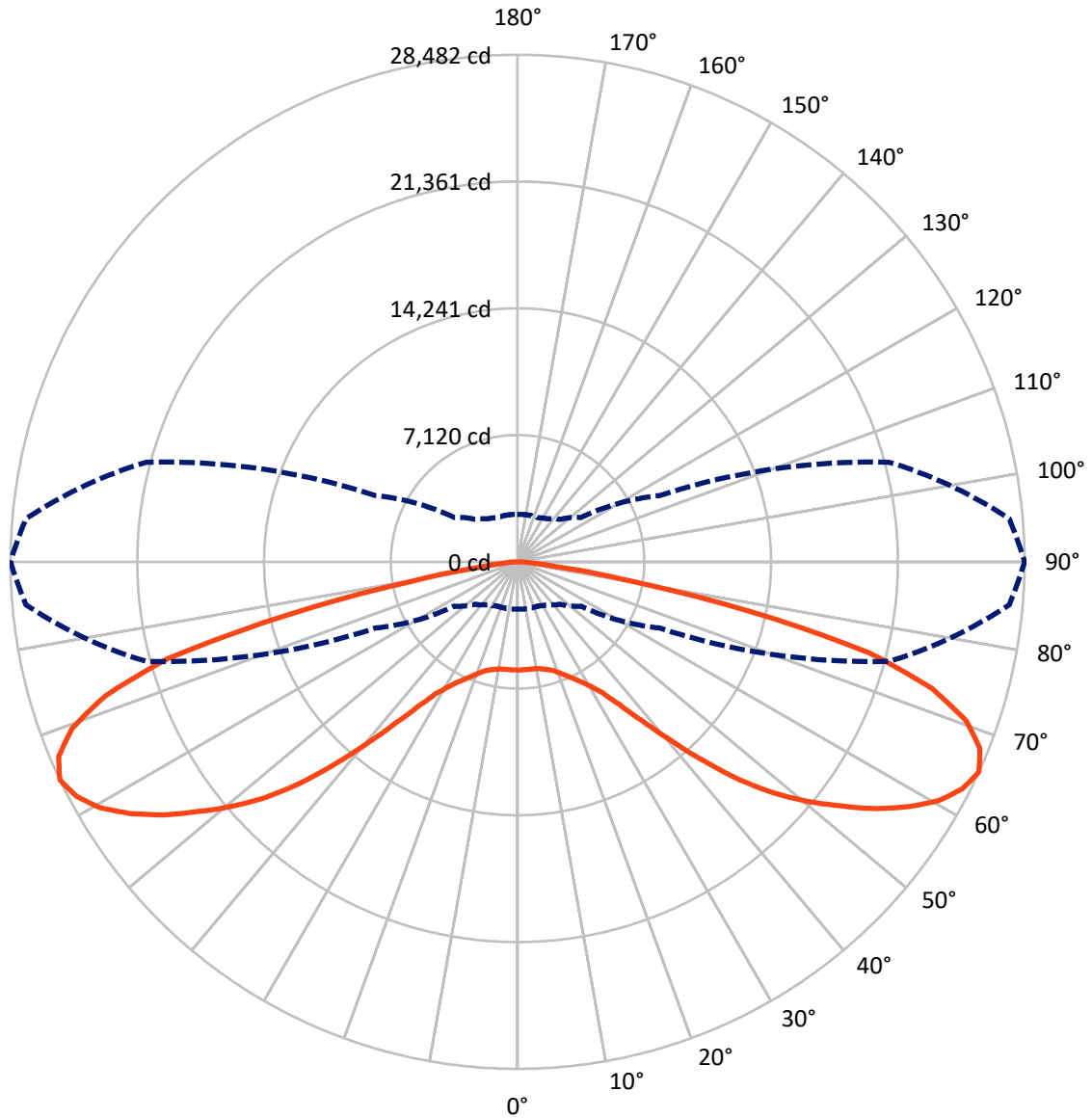
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 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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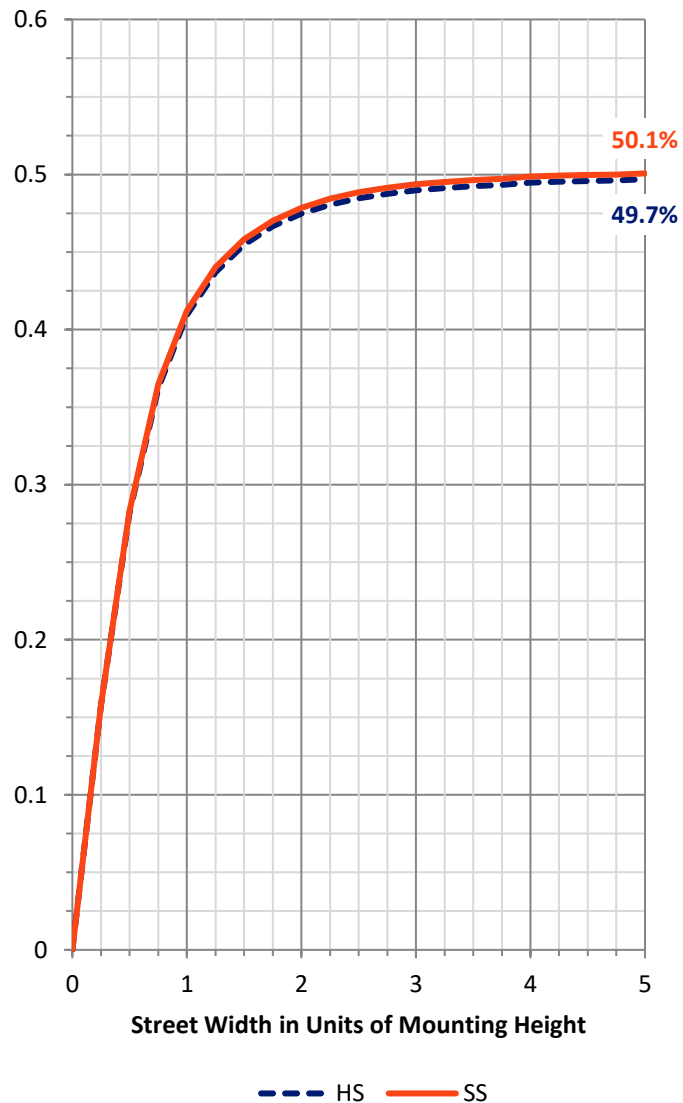
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18465.5	0.0	18465.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18465.5	0.0	18465.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	36931.0	0.0	36931.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	577.4	1.6
10°-20°	1703.8	4.6
20°-30°	2806.7	7.6
30°-40°	4112.1	11.1
40°-50°	6080.2	16.5
50°-60°	7975.6	21.6
60°-70°	8320.9	22.5
70°-80°	4784.0	13.0
80°-90°	570.3	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°	36931.0	100.0
0°-180°	36931.0	100.0

**Coefficient of Utilization**

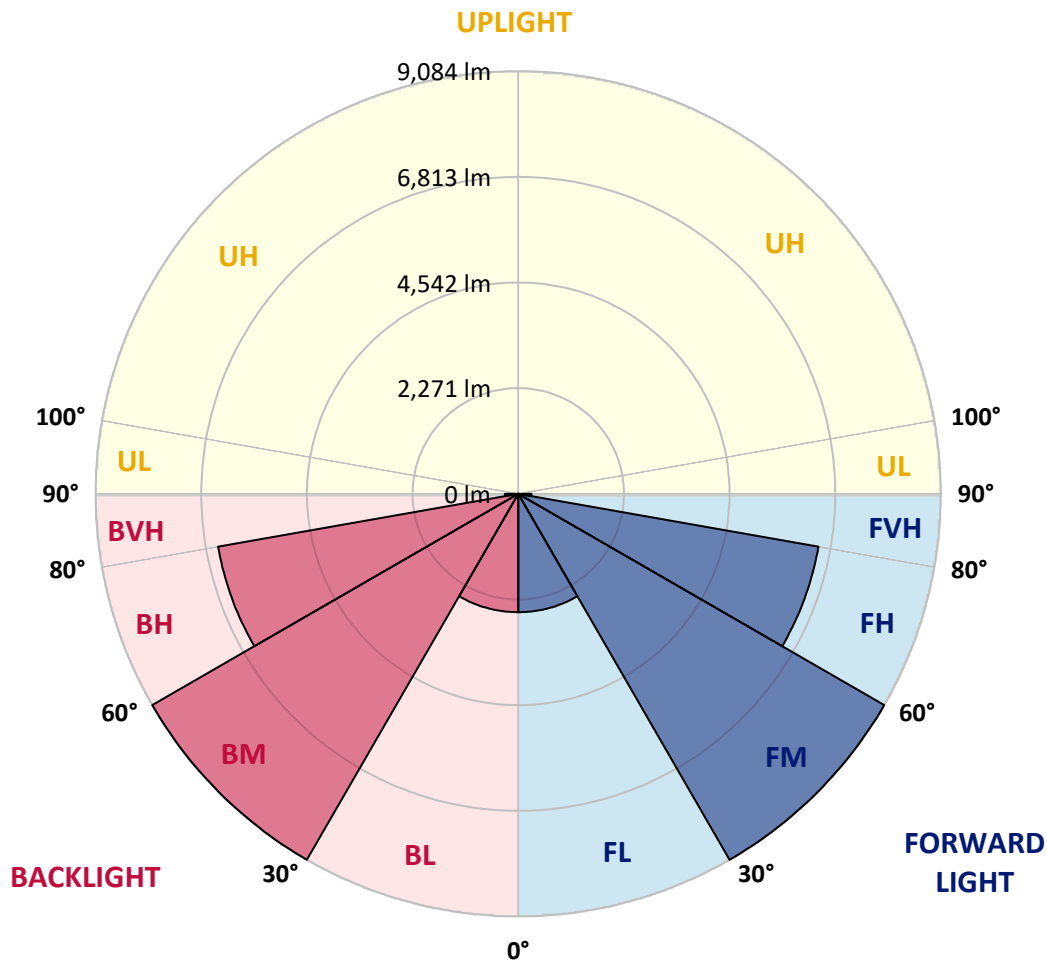


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2543.9	6.9			
FM (30°-60°)	9084.0	24.6			
FH (60°-80°)	6552.4	17.7			G3/7500
FVH (80°-90°)	285.1	0.8			G3/500
BL (0°-30°)	2543.9	6.9	B4/5000		
BM (30°-60°)	9084.0	24.6	B5		
BH (60°-80°)	6552.4	17.7	B5		G5
BVH (80°-90°)	285.1	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°	6084.3	6084.3	6084.3	6084.3	6084.3	6084.3	6084.3	6084.3	6084.3	6084.3	6084.3
2.5°	6082.8	6078.5	6077.1	6074.9	6078.5	6081.4	6088.6	6095.1	6093.7	6092.2	6093.7
5°	6048.9	6051.1	6051.8	6052.5	6055.4	6057.6	6067.7	6077.8	6076.3	6074.9	6082.1
7.5°	6001.3	6001.3	5999.8	5998.4	6004.1	6009.2	6019.3	6029.4	6037.4	6044.6	6056.1
10°	5932.0	5929.1	5928.4	5927.6	5934.1	5939.9	5958.7	5977.4	5993.3	6008.5	6028.0
12.5°	5847.5	5846.8	5848.2	5849.7	5863.4	5877.1	5908.9	5940.6	5972.4	6004.1	6032.3
15°	5747.2	5738.5	5745.7	5752.2	5774.6	5796.3	5857.6	5919.0	5967.3	6015.0	6069.8
17.5°	5594.2	5585.5	5596.3	5606.4	5651.2	5695.9	5782.5	5868.4	5959.4	6050.3	6129.0
20°	5362.4	5362.4	5389.9	5417.3	5493.1	5568.9	5688.0	5806.4	5929.1	6051.8	6165.8
22.5°	5115.6	5108.4	5166.8	5225.3	5316.2	5406.5	5556.6	5706.8	5869.2	6030.9	6187.5
25°	4837.0	4849.2	4922.9	4995.8	5123.5	5250.6	5435.4	5619.4	5823.7	6028.0	6245.2
27.5°	4601.6	4603.8	4692.6	4781.4	4941.6	5101.1	5325.6	5550.1	5799.2	6048.2	6321.8
30°	4358.4	4398.1	4491.9	4585.0	4764.1	4943.1	5214.5	5485.2	5780.4	6075.6	6409.1
32.5°	4171.4	4180.8	4286.9	4392.3	4579.3	4766.2	5081.7	5397.1	5751.5	6105.9	6511.6
35°	3995.3	4010.5	4109.4	4208.2	4403.1	4597.3	4943.1	5288.1	5711.8	6134.8	6622.8
37.5°	3838.7	3857.4	3951.3	4045.1	4232.8	4420.5	4787.2	5153.8	5650.5	6147.1	6744.7
40°	3723.9	3739.8	3819.2	3898.6	4068.2	4237.1	4621.1	5004.4	5564.6	6124.7	6840.7
42.5°	3640.9	3648.1	3712.4	3776.6	3928.2	4079.8	4460.2	4839.8	5452.7	6065.5	6915.1
45°	3528.3	3544.2	3607.7	3670.5	3806.9	3942.6	4290.5	4638.5	5286.7	5934.1	6915.8
47.5°	3444.6	3454.7	3514.6	3573.8	3700.8	3827.8	4140.4	4452.9	5099.0	5744.3	6837.9
50°	3383.2	3378.1	3433.7	3488.6	3596.1	3703.0	3981.6	4259.5	4866.6	5473.6	6643.0
52.5°	3295.9	3301.6	3346.4	3391.1	3484.3	3576.6	3826.4	4075.4	4608.9	5141.6	6326.8
55°	3178.9	3205.6	3243.2	3280.0	3361.5	3443.1	3667.6	3892.1	4351.2	4809.5	5919.7
57.5°	3064.2	3083.6	3115.4	3147.2	3211.4	3274.9	3486.4	3697.9	4079.8	4461.6	5405.8
60°	2970.3	2975.4	2995.6	3015.1	3064.2	3113.2	3287.9	3462.6	3796.1	4128.8	4893.3
62.5°	2849.0	2850.5	2864.2	2877.9	2908.2	2937.8	3075.0	3211.4	3495.8	3780.2	4383.7
65°	2659.2	2670.8	2683.7	2696.0	2716.2	2735.7	2840.4	2945.1	3158.0	3370.9	3857.4
67.5°	2467.2	2457.1	2472.3	2487.4	2490.3	2493.2	2572.6	2652.0	2826.7	3001.4	3392.6
70°	2154.7	2162.6	2161.1	2159.0	2146.7	2133.7	2189.3	2244.9	2337.3	2428.9	2711.9
72.5°	1652.3	1641.4	1614.0	1585.9	1572.9	1559.9	1624.8	1689.1	1756.9	1824.8	2029.1
75°	1009.8	1040.9	1097.9	1154.2	1175.9	1197.5	1193.9	1189.6	1183.8	1178.0	1432.8
77.5°	684.3	700.9	713.9	726.2	757.9	789.0	825.0	861.1	860.4	859.7	1019.9
80°	435.3	422.3	428.0	433.8	451.9	469.9	524.8	578.9	594.1	608.5	718.9
82.5°	272.9	275.0	282.2	288.7	268.5	248.3	290.9	332.8	368.9	404.2	455.5
85°	176.8	200.7	197.1	193.4	169.6	145.8	183.3	220.9	238.2	254.8	274.3
87.5°	57.0	66.4	68.6	70.0	70.0	69.3	77.2	85.2	88.1	90.2	97.4
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°	6084.3	6084.3	6084.3	6084.3	6084.3	6084.3	6084.3	6084.3
2.5°	6094.4	6087.2	6079.9	6077.8	6075.6	6074.2	6072.7	6071.3
5°	6088.6	6087.2	6085.7	6079.9	6074.2	6073.4	6072.7	6074.9
7.5°	6067.7	6067.7	6067.7	6074.2	6080.7	6077.8	6074.2	6078.5
10°	6046.7	6064.1	6081.4	6086.4	6091.5	6095.1	6098.7	6102.3
12.5°	6060.5	6090.0	6118.9	6135.5	6152.1	6160.8	6168.7	6170.9
15°	6124.7	6162.2	6199.8	6222.1	6243.8	6258.2	6272.7	6276.3
17.5°	6207.7	6265.5	6322.5	6355.0	6387.4	6404.0	6419.9	6414.9
20°	6279.2	6358.6	6438.0	6507.3	6576.6	6614.8	6652.3	6656.7
22.5°	6343.4	6476.9	6610.5	6700.0	6788.8	6856.6	6924.5	6931.7
25°	6461.8	6636.5	6811.2	6954.1	7097.0	7159.1	7220.4	7256.5
27.5°	6594.6	6828.5	7062.3	7253.6	7444.9	7539.5	7633.3	7638.4
30°	6741.9	7038.5	7334.5	7591.4	7847.7	7963.2	8078.0	8138.6
32.5°	6916.5	7293.3	7669.4	8007.2	8345.0	8520.4	8695.8	8757.2
35°	7110.0	7598.7	8086.6	8552.2	9017.1	9352.7	9688.4	9850.0
37.5°	7342.4	7964.6	8586.8	9286.3	9985.7	10558.2	11129.8	11293.0
40°	7556.8	8357.3	9157.1	10128.7	11100.2	12008.3	12915.6	13092.5
42.5°	7764.7	8733.4	9702.1	11027.3	12352.6	13568.2	14783.7	15243.5
45°	7896.8	9068.3	10239.1	11986.6	13734.2	15403.0	17071.2	17457.4
47.5°	7930.7	9307.2	10683.7	12848.5	15013.3	16977.4	18940.7	19436.6
50°	7812.3	9431.4	11050.4	13907.4	16763.7	18763.9	20763.3	21170.4
52.5°	7512.0	9391.7	11271.3	14728.1	18185.0	20302.1	22419.2	22788.8
55°	7029.9	9150.6	11271.3	15403.8	19535.5	21731.3	23926.4	24488.0
57.5°	6349.9	8690.1	11030.2	15854.9	20679.6	23064.5	25449.4	25954.0
60°	5657.7	8142.2	10626.0	16103.9	21581.9	24108.3	26634.7	27223.7
62.5°	4986.4	7398.0	9808.9	15842.6	21876.4	24543.5	27210.0	28057.4
65°	4343.9	6571.5	8799.1	15205.3	21610.8	24667.0	27722.5	28481.8
67.5°	3783.8	5880.7	7977.6	14137.0	20296.3	23678.8	27060.5	28006.9
70°	2994.9	4924.3	6853.7	12242.9	17632.0	21593.4	25554.8	26722.7
72.5°	2233.3	3869.7	5505.4	9630.6	13755.8	18311.3	22866.0	24335.6
75°	1686.9	3090.9	4494.8	7612.4	10729.9	14586.7	18443.4	20410.4
77.5°	1180.2	2233.3	3285.8	5611.5	7937.2	10072.4	12207.5	13255.6
80°	828.7	1412.6	1995.8	3114.7	4232.8	5179.8	6126.1	6051.1
82.5°	506.0	751.4	996.1	1351.3	1706.4	1935.2	2164.0	2153.9
85°	293.8	357.3	420.1	520.4	620.8	734.1	847.4	753.6
87.5°	103.9	103.9	103.9	119.1	134.3	184.8	235.3	248.3
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-CA10-210-750-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)