

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: P510615

Luminaire Tested: **CST-CA10-760-750-U-T1**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510615  
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-CA10-760-750-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: 112724 lumens  
Efficiency: N/A  
Efficacy: 148.0 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

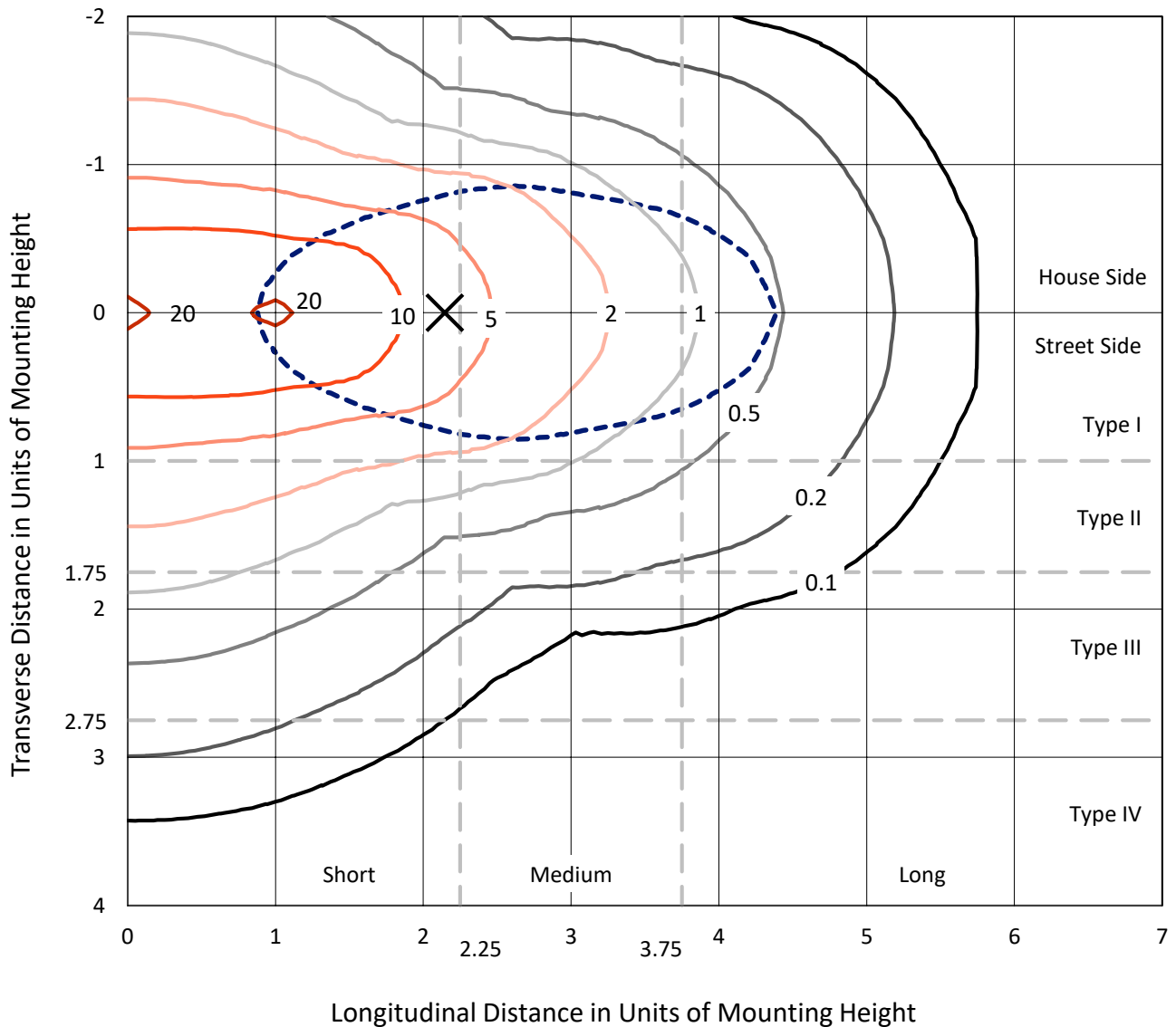
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

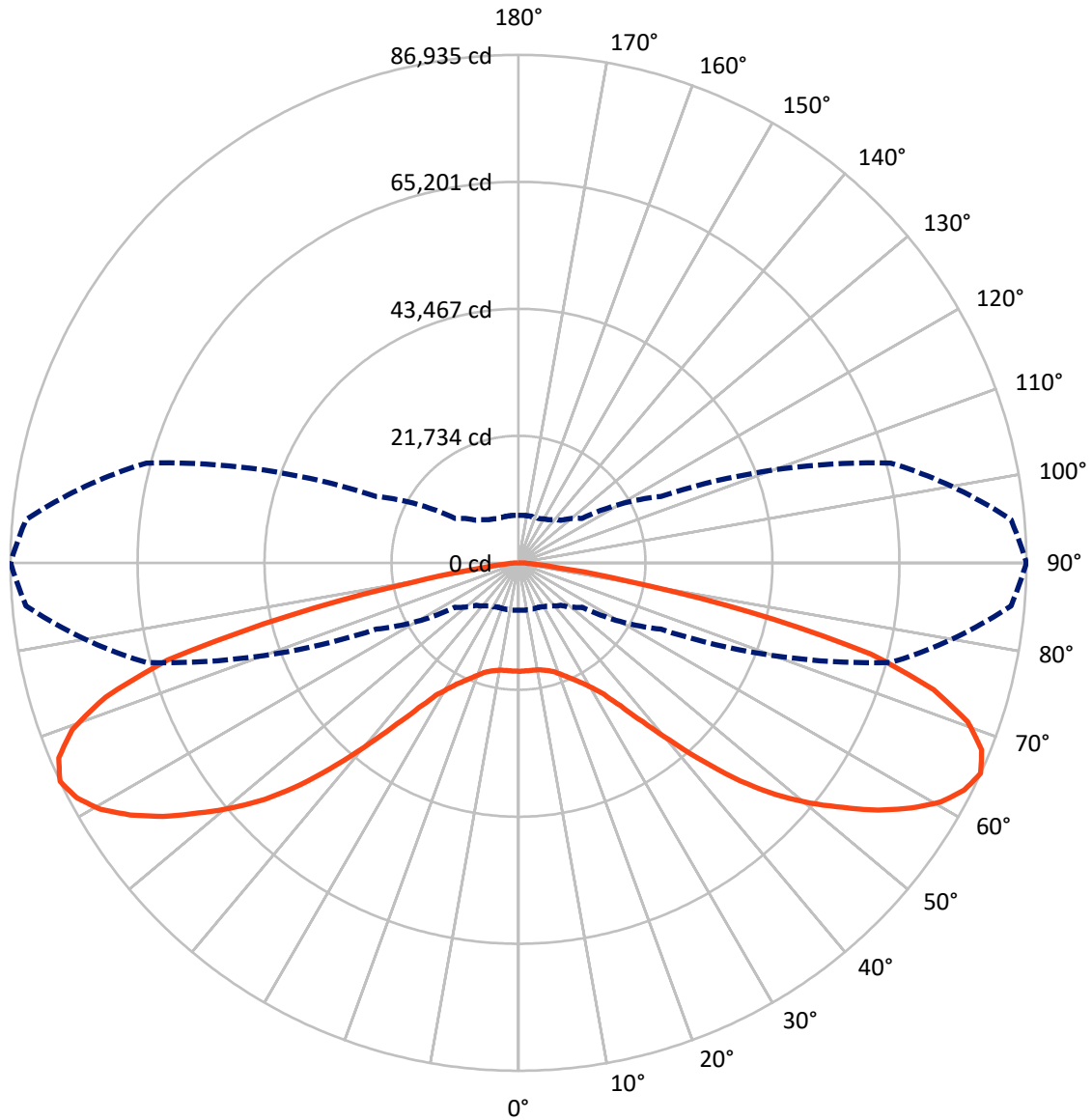
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 20.9 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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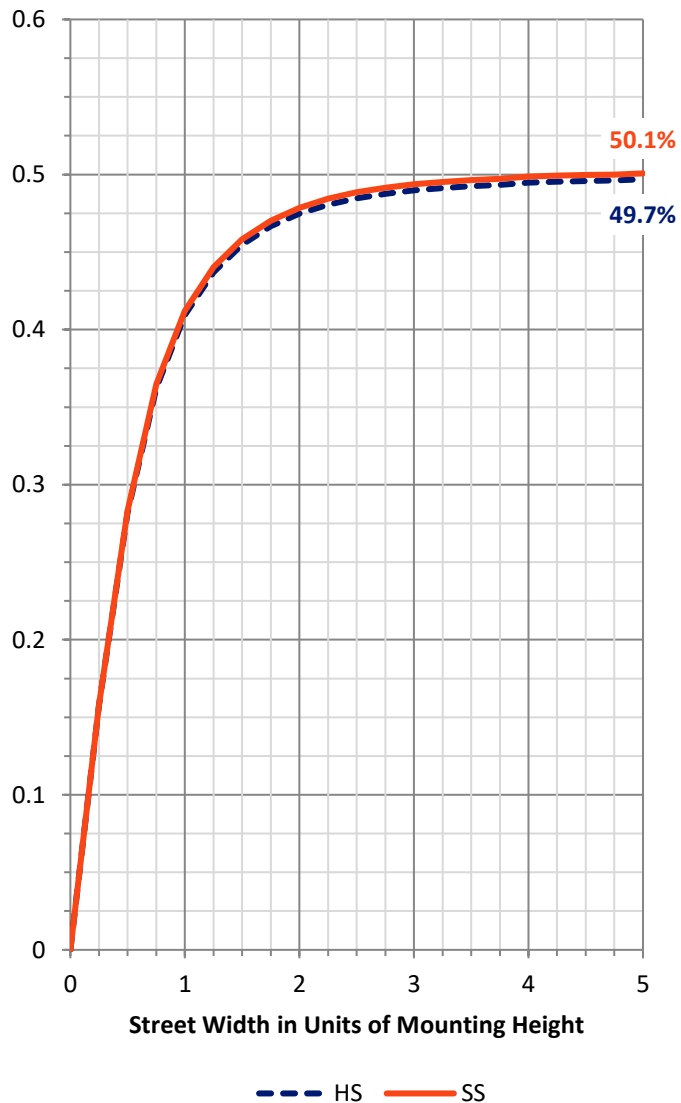
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	56362.0	0.0	56362.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	56362.0	0.0	56362.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	112724.0	0.0	112724.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1762.4	1.6
10°-20°	5200.6	4.6
20°-30°	8566.7	7.6
30°-40°	12551.3	11.1
40°-50°	18558.5	16.5
50°-60°	24343.9	21.6
60°-70°	25397.6	22.5
70°-80°	14602.2	13.0
80°-90°	1740.7	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°	112724.0	100.0
0°-180°	112724.0	100.0

**Coefficient of Utilization**

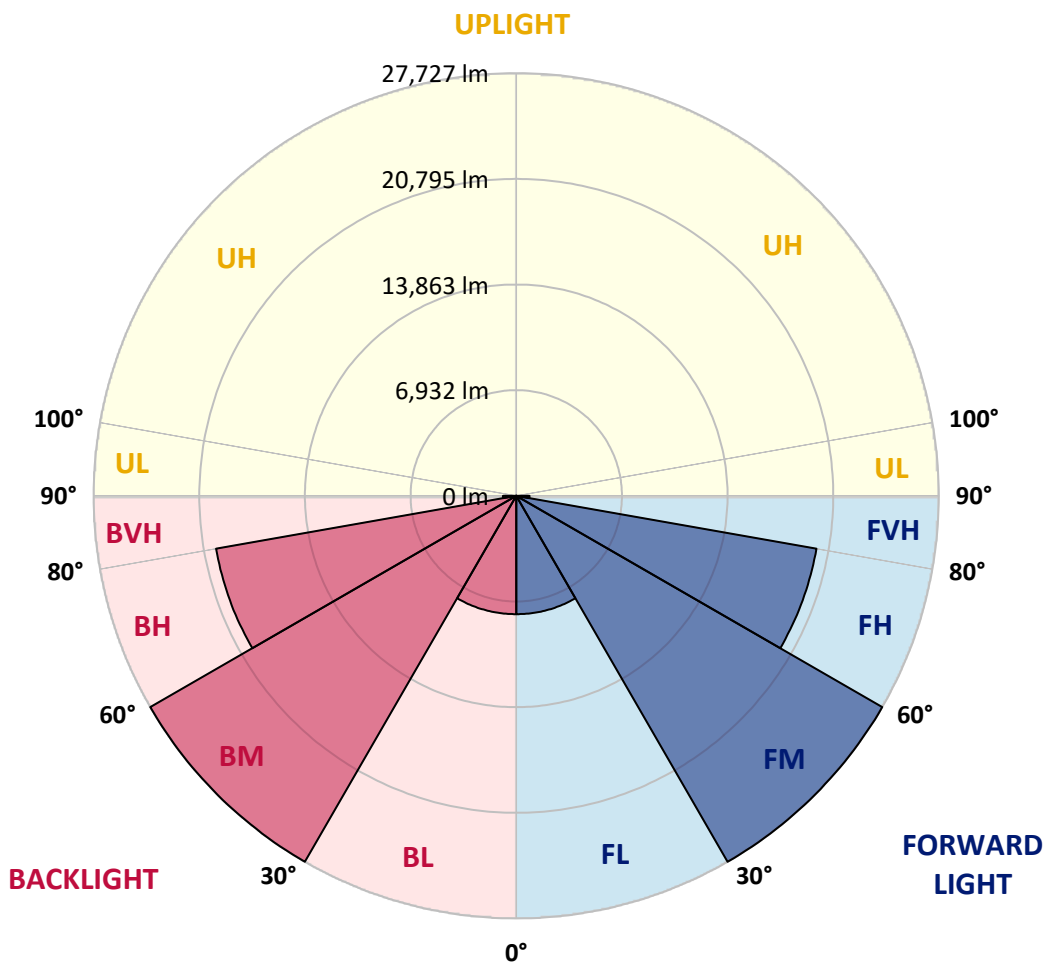


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7764.9	6.9			
FM (30°-60°)	27726.9	24.6			
FH (60°-80°)	19999.9	17.7			G5
FVH (80°-90°)	870.4	0.8			G5
BL (0°-30°)	7764.9	6.9	B5		
BM (30°-60°)	27726.9	24.6	B5		
BH (60°-80°)	19999.9	17.7	B5		G5
BVH (80°-90°)	870.4	0.8			G5
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°	18570.9	18570.9	18570.9	18570.9	18570.9	18570.9	18570.9	18570.9	18570.9	18570.9	18570.9
2.5°	18566.5	18553.3	18548.9	18542.3	18553.3	18562.1	18584.2	18604.0	18599.6	18595.2	18599.6
5°	18463.0	18469.6	18471.8	18474.0	18482.8	18489.4	18520.3	18551.1	18546.7	18542.3	18564.3
7.5°	18317.6	18317.6	18313.2	18308.8	18326.4	18341.8	18372.7	18403.5	18427.7	18449.8	18485.0
10°	18106.1	18097.3	18095.0	18092.8	18112.7	18130.3	18187.6	18244.9	18293.3	18339.6	18399.1
12.5°	17848.3	17846.1	17850.5	17854.9	17896.8	17938.6	18035.6	18132.5	18229.4	18326.4	18412.3
15°	17542.0	17515.6	17537.6	17557.5	17625.8	17691.9	17879.1	18066.4	18214.0	18359.4	18526.9
17.5°	17075.0	17048.5	17081.6	17112.4	17249.0	17385.6	17650.0	17912.2	18189.8	18467.4	18707.5
20°	16367.7	16367.7	16451.4	16535.2	16766.5	16997.8	17361.4	17722.7	18097.3	18471.8	18819.9
22.5°	15614.2	15592.2	15770.7	15949.1	16226.7	16502.1	16960.4	17418.7	17914.4	18407.9	18886.0
25°	14763.8	14801.2	15026.0	15248.5	15638.5	16026.2	16590.2	17152.1	17775.6	18399.1	19062.3
27.5°	14045.5	14052.1	14323.1	14594.1	15083.2	15570.2	16255.4	16940.6	17700.7	18460.8	19295.8
30°	13303.0	13424.2	13710.6	13994.9	14541.3	15087.7	15916.1	16742.3	17643.4	18544.5	19562.4
32.5°	12732.4	12761.1	13084.9	13406.6	13977.2	14547.9	15510.7	16473.5	17555.3	18637.0	19875.3
35°	12194.8	12241.1	12542.9	12844.8	13439.6	14032.3	15087.7	16140.8	17434.1	18725.2	20214.5
37.5°	11716.7	11774.0	12060.4	12346.8	12919.7	13492.5	14611.8	15731.0	17246.8	18762.6	20586.9
40°	11366.4	11414.9	11657.2	11899.6	12417.3	12932.9	14105.0	15274.9	16984.6	18694.3	20879.9
42.5°	11113.0	11135.1	11331.2	11527.2	11989.9	12452.6	13613.7	14772.6	16643.1	18513.7	21106.9
45°	10769.3	10817.8	11011.7	11203.4	11619.8	12034.0	13095.9	14157.9	16136.4	18112.7	21109.1
47.5°	10513.8	10544.6	10727.5	10908.1	11295.9	11683.7	12637.7	13591.7	15563.5	17533.2	20871.1
50°	10326.5	10311.1	10480.7	10648.2	10976.4	11302.5	12153.0	13001.2	14854.1	16707.0	20276.2
52.5°	10059.9	10077.5	10214.1	10350.7	10634.9	10917.0	11679.3	12439.4	14067.6	15693.5	19311.2
55°	9703.0	9784.5	9899.1	10011.4	10260.4	10509.4	11194.6	11879.8	13281.0	14680.1	18068.6
57.5°	9352.7	9412.2	9509.1	9606.0	9802.1	9996.0	10641.6	11287.1	12452.6	13618.1	16499.9
60°	9066.3	9081.7	9143.4	9202.9	9352.7	9502.5	10035.7	10568.8	11586.7	12602.4	14935.6
62.5°	8696.1	8700.5	8742.4	8784.2	8876.8	8967.1	9385.7	9802.1	10670.2	11538.3	13380.2
65°	8116.7	8151.9	8191.6	8229.0	8290.7	8350.2	8669.7	8989.1	9639.1	10289.0	11774.0
67.5°	7530.6	7499.8	7546.0	7592.3	7601.1	7609.9	7852.3	8094.6	8627.8	9161.0	10355.1
70°	6576.6	6600.8	6596.4	6589.8	6552.4	6512.7	6682.4	6852.0	7134.0	7413.8	8277.5
72.5°	5043.2	5010.1	4926.4	4840.5	4800.8	4761.2	4959.4	5155.5	5362.6	5569.7	6193.3
75°	3082.3	3177.0	3351.1	3522.9	3589.0	3655.1	3644.1	3630.9	3613.3	3595.7	4373.4
77.5°	2088.7	2139.3	2179.0	2216.4	2313.4	2408.1	2518.3	2628.4	2626.2	2624.0	3113.2
80°	1328.5	1288.9	1306.5	1324.1	1379.2	1434.3	1601.7	1767.0	1813.3	1857.3	2194.4
82.5°	832.8	839.4	861.5	881.3	819.6	757.9	887.9	1015.7	1125.8	1233.8	1390.2
85°	539.8	612.5	601.5	590.5	517.8	445.1	559.6	674.2	727.1	777.7	837.2
87.5°	174.1	202.7	209.3	213.7	213.7	211.5	235.7	260.0	268.8	275.4	297.4
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°	18570.9	18570.9	18570.9	18570.9	18570.9	18570.9	18570.9	18570.9
2.5°	18601.8	18579.8	18557.7	18551.1	18544.5	18540.1	18535.7	18531.3
5°	18584.2	18579.8	18575.4	18557.7	18540.1	18537.9	18535.7	18542.3
7.5°	18520.3	18520.3	18520.3	18540.1	18559.9	18551.1	18540.1	18553.3
10°	18456.4	18509.3	18562.1	18577.6	18593.0	18604.0	18615.0	18626.0
12.5°	18498.2	18588.6	18676.7	18727.4	18778.0	18804.5	18828.7	18835.3
15°	18694.3	18808.9	18923.5	18991.8	19057.9	19101.9	19146.0	19157.0
17.5°	18947.7	19124.0	19298.0	19397.2	19496.3	19547.0	19595.4	19580.0
20°	19165.8	19408.2	19650.5	19862.0	20073.5	20190.3	20304.9	20318.1
22.5°	19361.9	19769.5	20177.1	20450.3	20721.3	20928.4	21135.5	21157.5
25°	19723.2	20256.4	20789.6	21225.8	21662.1	21851.5	22038.8	22149.0
27.5°	20128.6	20842.5	21556.3	22140.2	22724.0	23012.6	23299.1	23314.5
30°	20578.1	21483.6	22386.9	23171.3	23953.4	24305.9	24656.2	24841.3
32.5°	21111.3	22261.3	23409.2	24440.3	25471.4	26006.8	26542.2	26729.5
35°	21701.7	23193.3	24682.7	26103.8	27522.6	28547.1	29571.6	30065.1
37.5°	22411.2	24310.3	26209.5	28344.4	30479.4	32226.5	33971.5	34469.4
40°	23065.5	25508.9	27950.1	30915.6	33881.1	36652.8	39422.2	39962.0
42.5°	23700.0	26656.8	29613.5	33658.6	37703.7	41413.9	45124.2	46527.6
45°	24103.2	27679.1	31252.7	36586.7	41920.7	47014.5	52106.2	53284.9
47.5°	24206.8	28408.3	32609.9	39217.3	45824.8	51819.7	57812.5	59326.1
50°	23845.5	28787.3	33729.1	42449.4	51167.6	57272.7	63375.6	64618.2
52.5°	22928.9	28666.1	34403.3	44954.5	55505.7	61967.8	68429.8	69557.9
55°	21457.2	27930.2	34403.3	47016.7	59628.0	66330.2	73030.1	74744.3
57.5°	19381.7	26524.6	33667.4	48393.7	63120.1	70399.5	77678.9	79219.0
60°	17268.8	24852.3	32433.6	49153.8	65874.1	73585.4	81296.6	83094.5
62.5°	15219.8	22580.8	29939.6	48356.3	66773.0	74913.9	83052.6	85639.2
65°	13259.0	20058.1	26857.3	46410.8	65962.2	75290.6	84616.9	86934.7
67.5°	11549.3	17949.6	24350.0	43150.1	61950.1	72274.4	82596.5	85484.9
70°	9141.2	15030.4	20919.6	37368.8	53818.1	65909.3	78000.6	81565.4
72.5°	6816.8	11811.5	16804.0	29395.4	41986.8	55891.3	69793.6	74279.4
75°	5148.9	9434.2	13719.5	23235.2	32750.9	44522.7	56294.5	62298.3
77.5°	3602.3	6816.8	10029.1	17127.8	24226.6	30743.7	37260.9	40459.9
80°	2529.3	4311.7	6091.9	9506.9	12919.7	15810.3	18698.7	18469.6
82.5°	1544.5	2293.6	3040.4	4124.4	5208.4	5906.8	6605.3	6574.4
85°	896.7	1090.6	1282.3	1588.5	1894.8	2240.7	2586.6	2300.2
87.5°	317.3	317.3	317.3	363.5	409.8	564.0	718.2	757.9
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



REPORT NUMBER: P510615  
 CATALOG NUMBER: CST-CA10-760-750-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)