

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: P510625

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

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510625
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-CA10-760-760-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 110335 lumens
Efficiency: N/A
Efficacy: 144.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

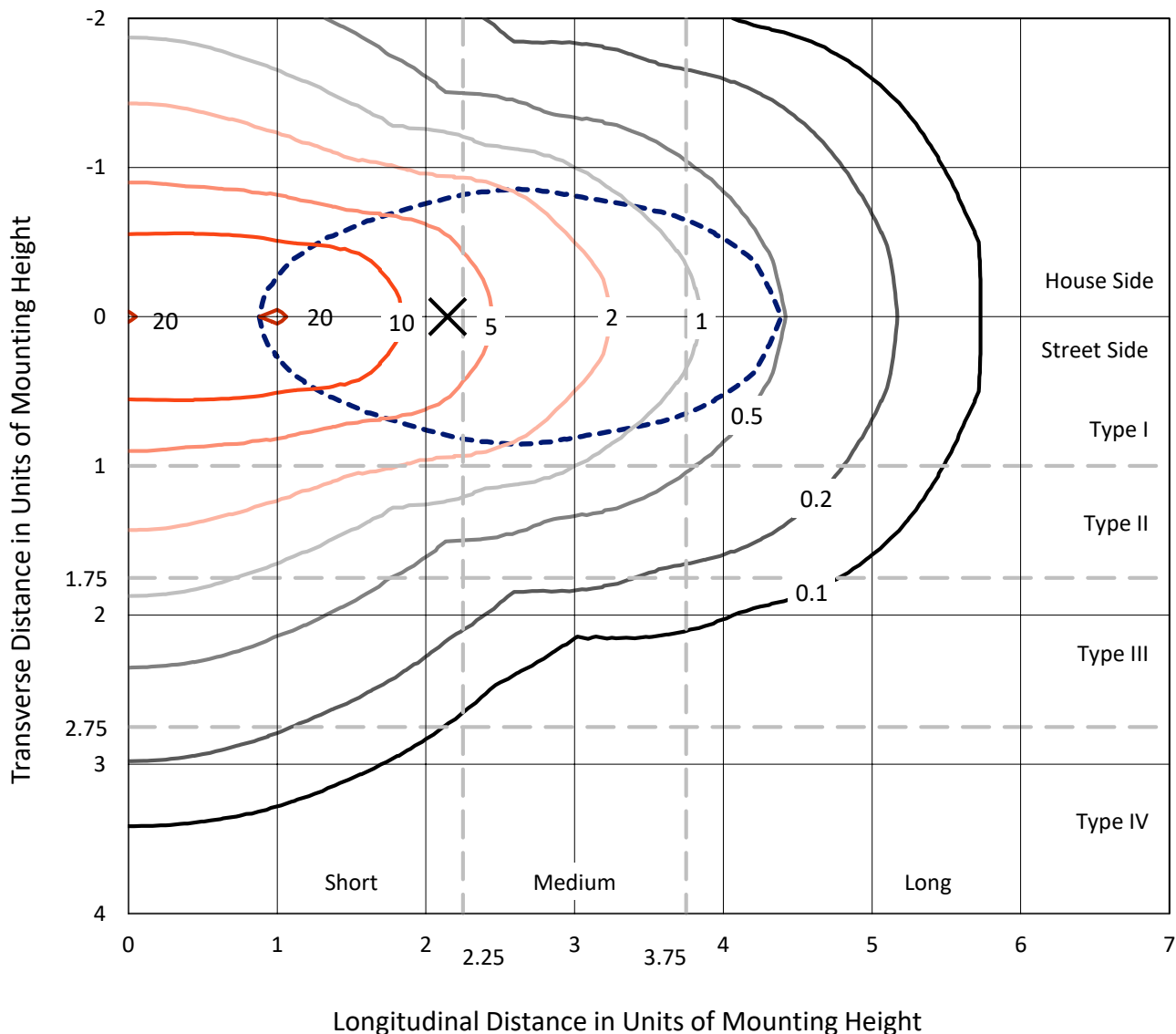
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

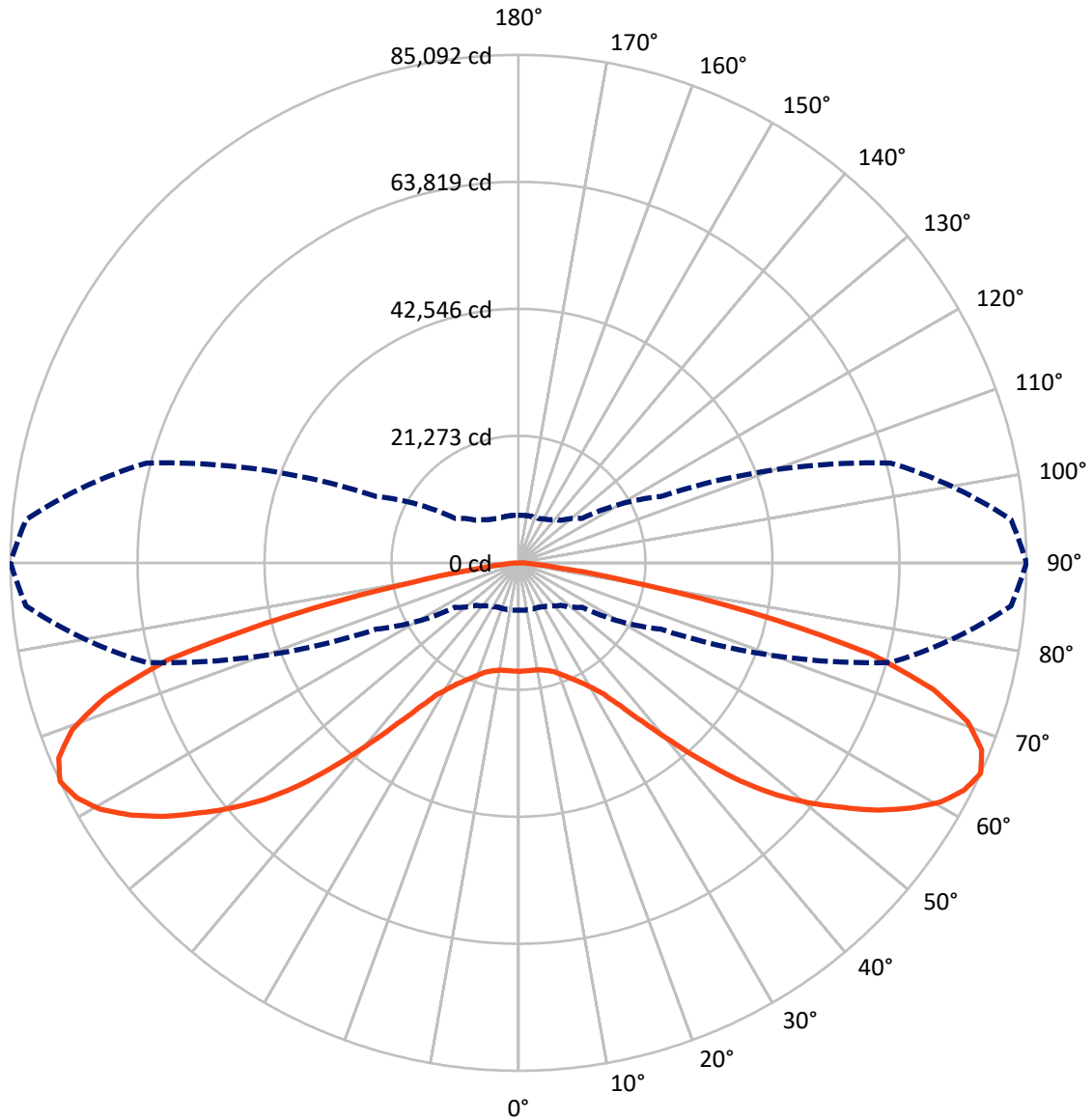
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 20.5 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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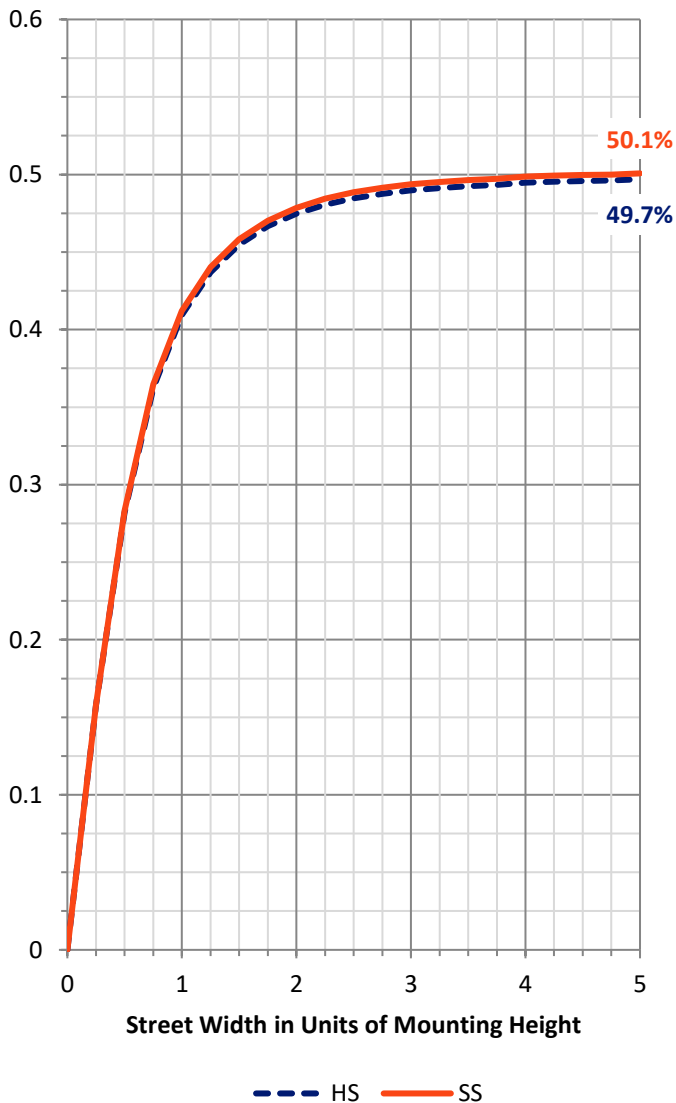
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	55167.5	0.0	55167.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	55167.5	0.0	55167.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	110335.0	0.0	110335.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1725.0	1.6
10°-20°	5090.4	4.6
20°-30°	8385.2	7.6
30°-40°	12285.3	11.1
40°-50°	18165.2	16.5
50°-60°	23828.0	21.6
60°-70°	24859.4	22.5
70°-80°	14292.7	13.0
80°-90°	1703.8	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°	110335.0	100.0
0°-180°	110335.0	100.0

Coefficient of Utilization

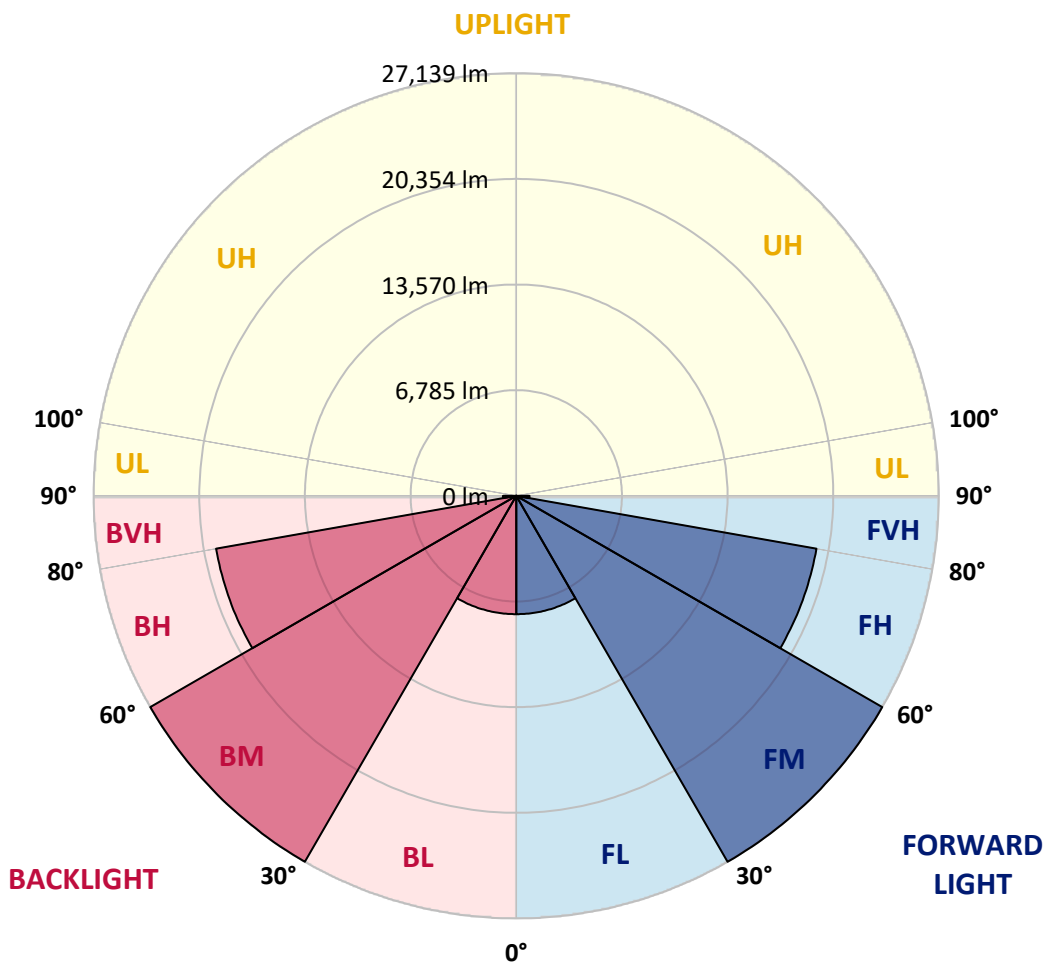


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7600.3	6.9			
FM (30°-60°)	27139.2	24.6			
FH (60°-80°)	19576.1	17.7			G5
FVH (80°-90°)	851.9	0.8			G5
BL (0°-30°)	7600.3	6.9	B5		
BM (30°-60°)	27139.2	24.6	B5		
BH (60°-80°)	19576.1	17.7	B5		G5
BVH (80°-90°)	851.9	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°	18177.4	18177.4	18177.4	18177.4	18177.4	18177.4	18177.4	18177.4	18177.4	18177.4	18177.4
2.5°	18173.1	18160.1	18155.8	18149.3	18160.1	18168.7	18190.3	18209.7	18205.4	18201.1	18205.4
5°	18071.7	18078.2	18080.3	18082.5	18091.1	18097.6	18127.8	18158.0	18153.6	18149.3	18170.9
7.5°	17929.4	17929.4	17925.0	17920.7	17938.0	17953.1	17983.3	18013.5	18037.2	18058.8	18093.3
10°	17722.3	17713.7	17711.6	17709.4	17728.8	17746.1	17802.1	17858.2	17905.6	17950.9	18009.2
12.5°	17470.0	17467.9	17472.2	17476.5	17517.5	17558.4	17653.3	17748.2	17843.1	17938.0	18022.1
15°	17170.3	17144.4	17166.0	17185.4	17252.2	17316.9	17500.2	17683.5	17828.0	17970.3	18134.2
17.5°	16713.1	16687.2	16719.6	16749.7	16883.4	17017.2	17275.9	17532.6	17804.3	18076.0	18311.1
20°	16020.8	16020.8	16102.8	16184.7	16411.2	16637.6	16993.4	17347.1	17713.7	18080.3	18421.1
22.5°	15283.3	15261.7	15436.4	15611.1	15882.8	16152.4	16600.9	17049.5	17534.7	18017.8	18485.7
25°	14450.9	14487.5	14707.5	14925.3	15307.0	15686.6	16238.6	16788.6	17398.9	18009.2	18658.3
27.5°	13747.9	13754.3	14019.6	14284.8	14763.6	15240.2	15910.9	16581.5	17325.5	18069.5	18886.9
30°	13021.1	13139.7	13420.1	13698.3	14233.1	14767.9	15578.7	16387.4	17269.5	18151.5	19147.8
32.5°	12462.6	12490.6	12807.6	13122.5	13681.0	14239.5	15181.9	16124.4	17183.2	18242.1	19454.0
35°	11936.4	11981.7	12277.1	12572.6	13154.8	13734.9	14767.9	15798.7	17064.6	18328.3	19786.1
37.5°	11468.4	11524.5	11804.8	12085.2	12645.9	13206.6	14302.1	15397.6	16881.3	18365.0	20150.6
40°	11125.5	11173.0	11410.2	11647.4	12154.2	12658.8	13806.1	14951.2	16624.7	18298.1	20437.4
42.5°	10877.5	10899.1	11091.0	11282.9	11735.8	12188.7	13325.2	14459.5	16290.4	18121.3	20659.5
45°	10541.1	10588.5	10778.3	10965.9	11373.5	11778.9	12818.4	13857.8	15794.4	17728.8	20661.7
47.5°	10290.9	10321.1	10500.1	10677.0	11056.5	11436.1	12369.8	13303.6	15233.7	17161.6	20428.8
50°	10107.6	10092.5	10258.6	10422.5	10743.8	11063.0	11895.4	12725.7	14539.3	16352.9	19846.5
52.5°	9846.7	9864.0	9997.7	10131.4	10409.6	10685.6	11431.7	12175.7	13769.4	15360.9	18902.0
55°	9497.3	9577.1	9689.3	9799.3	10042.9	10286.6	10957.3	11628.0	12999.5	14368.9	17685.7
57.5°	9154.5	9212.7	9307.6	9402.5	9594.4	9784.2	10416.0	11047.9	12188.7	13329.5	16150.2
60°	8874.1	8889.2	8949.6	9007.8	9154.5	9301.1	9823.0	10344.9	11341.2	12335.3	14619.1
62.5°	8511.8	8516.1	8557.1	8598.1	8688.6	8777.1	9186.8	9594.4	10444.1	11293.7	13096.6
65°	7944.6	7979.1	8018.0	8054.6	8115.0	8173.2	8485.9	8798.6	9434.8	10071.0	11524.5
67.5°	7371.0	7340.8	7386.1	7431.4	7440.0	7448.6	7685.9	7923.1	8445.0	8966.8	10135.7
70°	6437.2	6461.0	6456.6	6450.2	6413.5	6374.7	6540.7	6706.8	6982.8	7256.7	8102.1
72.5°	4936.3	4903.9	4822.0	4737.9	4699.1	4660.3	4854.3	5046.3	5249.0	5451.7	6062.0
75°	3017.0	3109.7	3280.1	3448.3	3513.0	3577.7	3566.9	3554.0	3536.7	3519.5	4280.7
77.5°	2044.4	2094.0	2132.8	2169.5	2264.4	2357.1	2464.9	2572.7	2570.6	2568.4	3047.2
80°	1300.4	1261.6	1278.8	1296.1	1350.0	1403.9	1567.8	1729.5	1774.8	1818.0	2147.9
82.5°	815.2	821.6	843.2	862.6	802.2	741.8	869.1	994.2	1102.0	1207.7	1360.8
85°	528.3	599.5	588.7	577.9	506.8	435.6	547.8	659.9	711.7	761.3	819.5
87.5°	170.4	198.4	204.9	209.2	209.2	207.0	230.7	254.5	263.1	269.6	291.1
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°	18177.4	18177.4	18177.4	18177.4	18177.4	18177.4	18177.4	18177.4
2.5°	18207.6	18186.0	18164.4	18158.0	18151.5	18147.2	18142.9	18138.5
5°	18190.3	18186.0	18181.7	18164.4	18147.2	18145.0	18142.9	18149.3
7.5°	18127.8	18127.8	18127.8	18147.2	18166.6	18158.0	18147.2	18160.1
10°	18065.2	18117.0	18168.7	18183.8	18198.9	18209.7	18220.5	18231.3
12.5°	18106.2	18194.6	18280.9	18330.5	18380.1	18406.0	18429.7	18436.1
15°	18298.1	18410.3	18522.4	18589.3	18654.0	18697.1	18740.2	18751.0
17.5°	18546.1	18718.7	18889.0	18986.1	19083.1	19132.7	19180.1	19165.1
20°	18759.6	18996.8	19234.1	19441.1	19648.1	19762.4	19874.6	19887.5
22.5°	18951.6	19350.5	19749.5	20016.9	20282.1	20484.8	20687.6	20709.1
25°	19305.2	19827.1	20349.0	20776.0	21203.0	21388.4	21571.7	21679.6
27.5°	19702.0	20400.7	21099.5	21670.9	22242.4	22524.9	22805.3	22820.4
30°	20142.0	21028.3	21912.5	22680.2	23445.8	23790.8	24133.7	24314.8
32.5°	20663.8	21789.5	22913.1	23922.4	24931.6	25455.6	25979.7	26163.0
35°	21241.8	22701.8	24159.6	25550.5	26939.3	27942.1	28944.9	29428.0
37.5°	21936.2	23795.1	25654.0	27743.7	29833.4	31543.5	33251.5	33738.9
40°	22576.7	24968.3	27357.7	30260.4	33163.1	35876.0	38586.7	39115.1
42.5°	23197.8	26091.8	28985.9	32945.3	36904.6	40536.2	44167.8	45541.5
45°	23592.4	27092.4	30590.3	35811.3	41032.2	46018.1	51001.9	52155.6
47.5°	23693.8	27806.3	31918.8	38386.2	44853.6	50721.5	56587.3	58068.8
50°	23340.1	28177.2	33014.3	41549.8	50083.2	56058.9	62032.5	63248.8
52.5°	22443.0	28058.6	33674.2	44001.8	54329.4	60654.5	66979.6	68083.7
55°	21002.4	27338.3	33674.2	46020.3	58364.2	64924.4	71482.4	73160.2
57.5°	18971.0	25962.4	32953.9	47368.1	61782.3	68907.5	76032.7	77540.1
60°	16902.9	24325.6	31746.2	48112.1	64478.0	72025.8	79573.7	81333.4
62.5°	14897.3	22102.2	29305.0	47331.4	65357.9	73326.2	81292.4	83824.2
65°	12978.0	19633.0	26288.1	45427.2	64564.3	73695.0	82823.6	85092.2
67.5°	11304.5	17569.2	23833.9	42235.6	60637.2	70742.7	80846.0	83673.2
70°	8947.4	14711.8	20476.2	36576.8	52677.5	64512.5	76347.5	79836.8
72.5°	6672.3	11561.1	16447.8	28772.4	41096.9	54706.8	68314.5	72705.1
75°	5039.8	9234.2	13428.7	22742.7	32056.8	43579.1	55101.4	60977.9
77.5°	3525.9	6672.3	9816.5	16764.8	23713.2	30092.2	36471.2	39602.5
80°	2475.7	4220.3	5962.8	9305.4	12645.9	15475.2	18302.4	18078.2
82.5°	1511.7	2244.9	2976.0	4037.0	5098.0	5781.6	6465.3	6435.1
85°	877.7	1067.5	1255.1	1554.9	1854.6	2193.2	2531.8	2251.4
87.5°	310.5	310.5	310.5	355.8	401.1	552.1	703.0	741.8
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-CA10-760-760-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)