

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: P510605

Luminaire Tested: **CST-CA10-760-740-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510605
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-CA10-760-740-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 110695 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

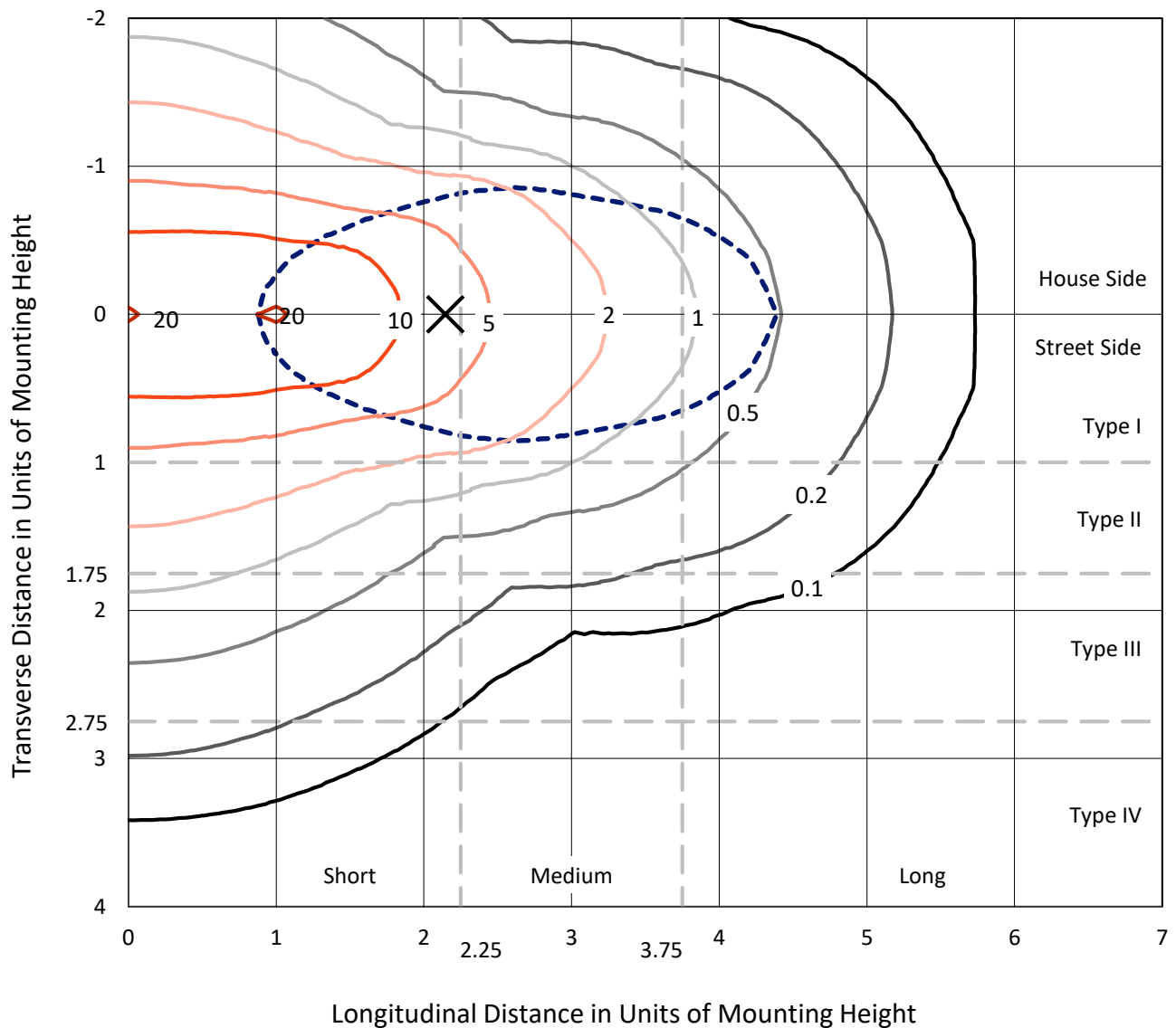
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

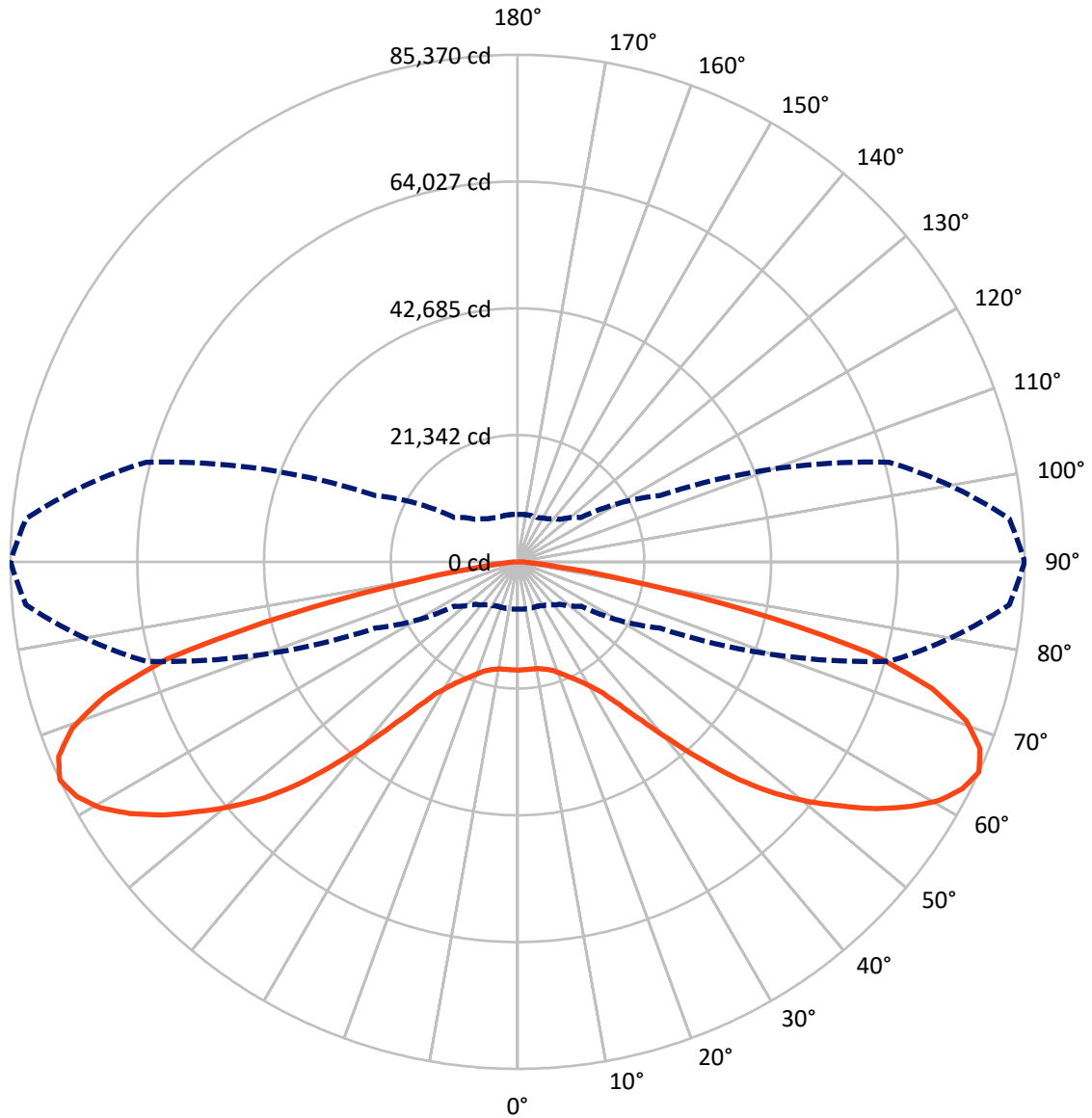
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 20.6 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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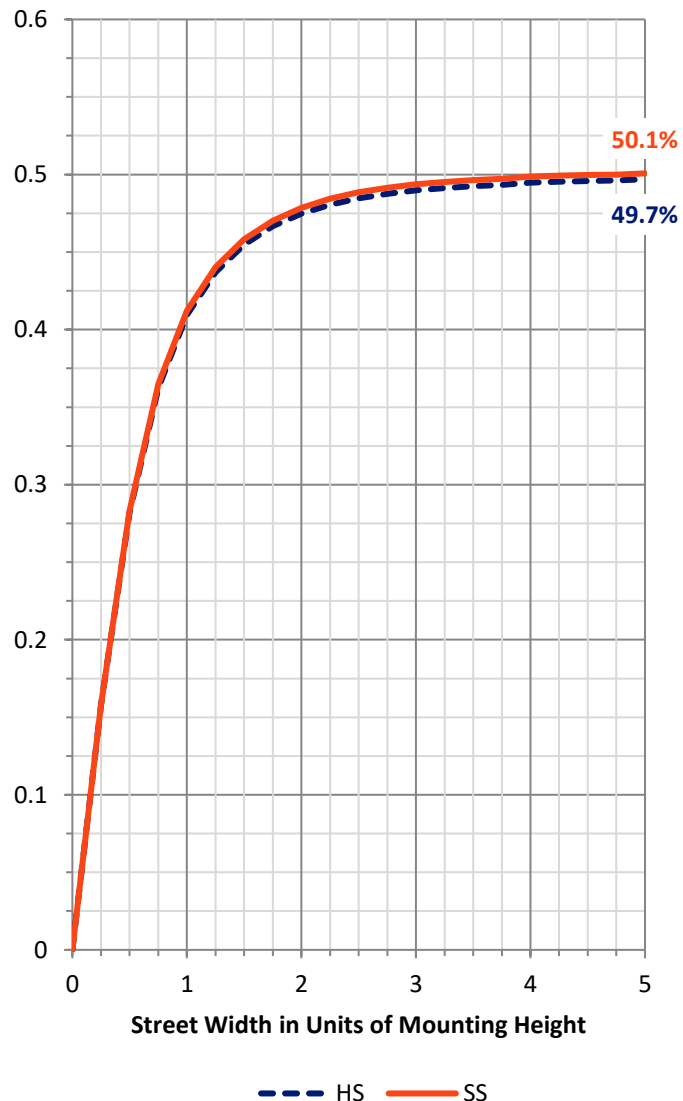
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	55347.5	0.0	55347.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	55347.5	0.0	55347.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	110695.0	0.0	110695.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1730.6	1.6
10°-20°	5107.0	4.6
20°-30°	8412.5	7.6
30°-40°	12325.4	11.1
40°-50°	18224.4	16.5
50°-60°	23905.8	21.6
60°-70°	24940.5	22.5
70°-80°	14339.4	13.0
80°-90°	1709.4	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°	110695.0	100.0
0°-180°	110695.0	100.0

Coefficient of Utilization

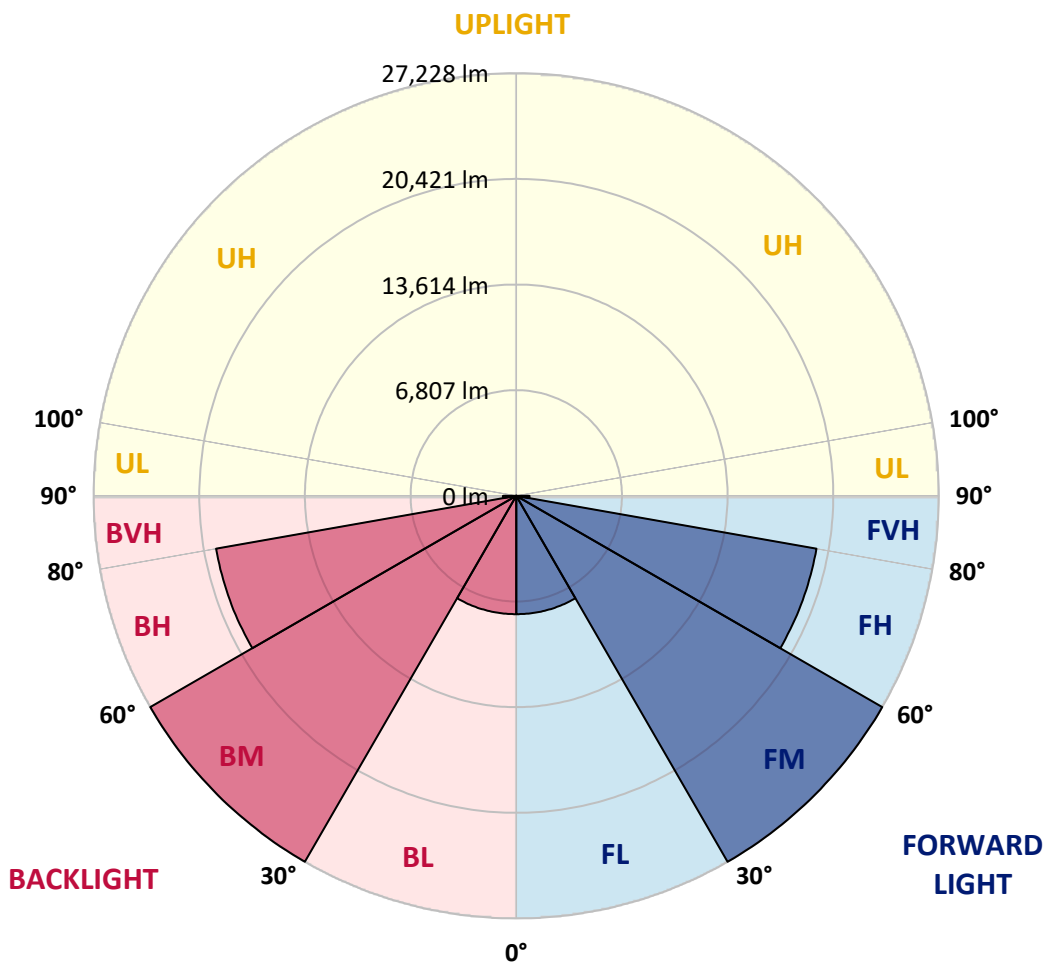


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7625.1	6.9			
FM (30°-60°)	27227.8	24.6			
FH (60°-80°)	19639.9	17.7			G5
FVH (80°-90°)	854.7	0.8			G5
BL (0°-30°)	7625.1	6.9	B5		
BM (30°-60°)	27227.8	24.6	B5		
BH (60°-80°)	19639.9	17.7	B5		G5
BVH (80°-90°)	854.7	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°	18236.7	18236.7	18236.7	18236.7	18236.7	18236.7	18236.7	18236.7	18236.7	18236.7	18236.7
2.5°	18232.3	18219.4	18215.0	18208.5	18219.4	18228.0	18249.7	18269.1	18264.8	18260.5	18264.8
5°	18130.7	18137.1	18139.3	18141.5	18150.1	18156.6	18186.9	18217.2	18212.9	18208.5	18230.2
7.5°	17987.9	17987.9	17983.5	17979.2	17996.5	18011.7	18042.0	18072.2	18096.0	18117.7	18152.3
10°	17780.2	17771.5	17769.3	17767.2	17786.7	17804.0	17860.2	17916.5	17964.1	18009.5	18067.9
12.5°	17527.0	17524.9	17529.2	17533.5	17574.6	17615.7	17710.9	17806.1	17901.3	17996.5	18080.9
15°	17226.3	17200.3	17222.0	17241.4	17308.5	17373.4	17557.3	17741.2	17886.2	18029.0	18193.4
17.5°	16767.6	16741.7	16774.1	16804.4	16938.5	17072.7	17332.3	17589.8	17862.4	18135.0	18370.8
20°	16073.1	16073.1	16155.3	16237.5	16464.7	16691.9	17048.9	17403.7	17771.5	18139.3	18481.2
22.5°	15333.2	15311.5	15486.8	15662.0	15934.6	16205.1	16655.1	17105.1	17591.9	18076.6	18546.1
25°	14498.0	14534.8	14755.5	14974.0	15357.0	15737.8	16291.6	16843.3	17455.6	18067.9	18719.1
27.5°	13792.7	13799.2	14065.3	14331.4	14811.8	15289.9	15962.8	16635.6	17382.1	18128.5	18948.5
30°	13063.6	13182.6	13463.9	13743.0	14279.5	14816.1	15629.6	16440.9	17325.8	18210.7	19210.3
32.5°	12503.2	12531.4	12849.4	13165.3	13725.6	14286.0	15231.5	16177.0	17239.3	18301.6	19517.5
35°	11975.3	12020.8	12317.2	12613.6	13197.7	13779.7	14816.1	15850.3	17120.3	18388.1	19850.7
37.5°	11505.8	11562.1	11843.3	12124.6	12687.1	13249.7	14348.7	15447.8	16936.4	18424.9	20216.3
40°	11161.8	11209.4	11447.4	11685.4	12193.8	12700.1	13851.1	15000.0	16678.9	18357.8	20504.1
42.5°	10913.0	10934.6	11127.2	11319.8	11774.1	12228.5	13368.7	14506.7	16343.6	18180.4	20726.9
45°	10575.5	10623.1	10813.5	11001.7	11410.6	11817.4	12860.2	13903.1	15845.9	17786.7	20729.1
47.5°	10324.5	10354.8	10534.4	10711.8	11092.6	11473.4	12410.2	13347.0	15283.4	17217.6	20495.4
50°	10140.6	10125.5	10292.1	10456.5	10778.9	11099.1	11934.2	12767.2	14586.7	16406.3	19911.3
52.5°	9878.8	9896.1	10030.3	10164.4	10443.5	10720.5	11469.0	12215.5	13814.3	15411.1	18963.6
55°	9528.3	9608.4	9720.9	9831.2	10075.7	10320.2	10993.1	11665.9	13042.0	14415.8	17743.4
57.5°	9184.3	9242.7	9337.9	9433.1	9625.7	9816.1	10450.0	11083.9	12228.5	13373.0	16202.9
60°	8903.1	8918.2	8978.8	9037.2	9184.3	9331.4	9855.0	10378.6	11378.2	12375.6	14666.8
62.5°	8539.6	8543.9	8585.0	8626.1	8717.0	8805.7	9216.8	9625.7	10478.1	11330.6	13139.3
65°	7970.6	8005.2	8044.1	8080.9	8141.5	8199.9	8513.6	8827.3	9465.6	10103.8	11562.1
67.5°	7395.1	7364.8	7410.2	7455.6	7464.3	7472.9	7710.9	7948.9	8472.5	8996.1	10168.7
70°	6458.2	6482.0	6477.7	6471.2	6434.4	6395.5	6562.1	6728.7	7005.6	7280.4	8128.5
72.5°	4952.4	4919.9	4837.7	4753.3	4714.4	4675.5	4870.2	5062.7	5266.1	5469.5	6081.8
75°	3026.8	3119.9	3290.8	3459.5	3524.4	3589.4	3578.5	3565.6	3548.2	3530.9	4294.7
77.5°	2051.1	2100.8	2139.8	2176.5	2271.7	2364.8	2473.0	2581.1	2579.0	2576.8	3057.1
80°	1304.6	1265.7	1283.0	1300.3	1354.4	1408.5	1572.9	1735.2	1780.6	1823.9	2154.9
82.5°	817.8	824.3	846.0	865.4	804.8	744.3	871.9	997.4	1105.6	1211.6	1365.2
85°	530.1	601.5	590.7	579.8	508.4	437.0	549.5	662.1	714.0	763.7	822.2
87.5°	170.9	199.0	205.5	209.9	209.9	207.7	231.5	255.3	264.0	270.4	292.1
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°	18236.7	18236.7	18236.7	18236.7	18236.7	18236.7	18236.7	18236.7
2.5°	18267.0	18245.3	18223.7	18217.2	18210.7	18206.4	18202.1	18197.7
5°	18249.7	18245.3	18241.0	18223.7	18206.4	18204.2	18202.1	18208.5
7.5°	18186.9	18186.9	18186.9	18206.4	18225.9	18217.2	18206.4	18219.4
10°	18124.2	18176.1	18228.0	18243.2	18258.3	18269.1	18279.9	18290.8
12.5°	18165.3	18254.0	18340.5	18390.3	18440.0	18466.0	18489.8	18496.3
15°	18357.8	18470.3	18582.8	18649.9	18714.8	18758.1	18801.4	18812.2
17.5°	18606.6	18779.7	18950.6	19048.0	19145.4	19195.1	19242.7	19227.6
20°	18820.8	19058.8	19296.8	19504.5	19712.2	19826.9	19939.4	19952.4
22.5°	19013.4	19413.7	19813.9	20082.2	20348.3	20551.7	20755.1	20776.7
25°	19368.2	19891.8	20415.4	20843.8	21272.2	21458.2	21642.1	21750.3
27.5°	19766.3	20467.3	21168.3	21741.6	22315.0	22598.4	22879.7	22894.8
30°	20207.7	21096.9	21984.0	22754.2	23522.3	23868.4	24212.4	24394.2
32.5°	20731.3	21860.6	22987.9	24000.4	25013.0	25538.7	26064.4	26248.3
35°	21311.1	22775.8	24238.4	25633.9	27027.2	28033.3	29039.3	29524.0
37.5°	22007.8	23872.8	25737.7	27834.2	29930.7	31646.4	33360.0	33848.9
40°	22650.3	25049.7	27447.0	30359.1	33271.3	35993.0	38712.6	39242.7
42.5°	23273.4	26176.9	29080.5	33052.8	37025.1	40668.5	44311.9	45690.1
45°	23669.4	27180.8	30690.1	35928.1	41166.1	46168.3	51168.3	52325.8
47.5°	23771.1	27897.0	32022.9	38511.4	44999.9	50887.0	56771.9	58258.3
50°	23416.2	28269.1	33122.0	41685.4	50246.6	56241.8	62234.9	63455.1
52.5°	22516.2	28150.1	33784.0	44145.3	54506.6	60852.4	67198.1	68305.8
55°	21070.9	27427.5	33784.0	46170.4	58554.7	65136.2	71715.6	73398.9
57.5°	19032.9	26047.1	33061.4	47522.7	61983.9	69132.3	76280.7	77793.1
60°	16958.0	24405.0	31849.8	48269.1	64688.4	72260.8	79833.3	81598.8
62.5°	14945.9	22174.4	29400.7	47485.9	65571.1	73565.5	81557.7	84097.7
65°	13020.3	19697.1	26373.8	45575.5	64774.9	73935.4	83093.8	85369.9
67.5°	11341.4	17626.5	23911.7	42373.4	60835.1	70973.5	81109.8	83946.2
70°	8976.6	14759.8	20543.0	36696.2	52849.4	64723.0	76596.6	80097.3
72.5°	6694.1	11598.9	16501.5	28866.3	41231.0	54885.3	68537.3	72942.4
75°	5056.2	9264.4	13472.5	22816.9	32161.4	43721.3	55281.2	61176.9
77.5°	3537.4	6694.1	9848.5	16819.5	23790.5	30190.4	36590.2	39731.7
80°	2483.8	4234.1	5982.3	9335.8	12687.1	15525.7	18362.2	18137.1
82.5°	1516.7	2252.3	2985.7	4050.2	5114.7	5800.5	6486.4	6456.1
85°	880.6	1071.0	1259.2	1559.9	1860.7	2200.3	2540.0	2258.8
87.5°	311.6	311.6	311.6	357.0	402.4	553.9	705.3	744.3
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-CA10-760-740-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)