

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: P510455

Luminaire Tested: **CST-CA10-310-722-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510455
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-CA10-310-722-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41032 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

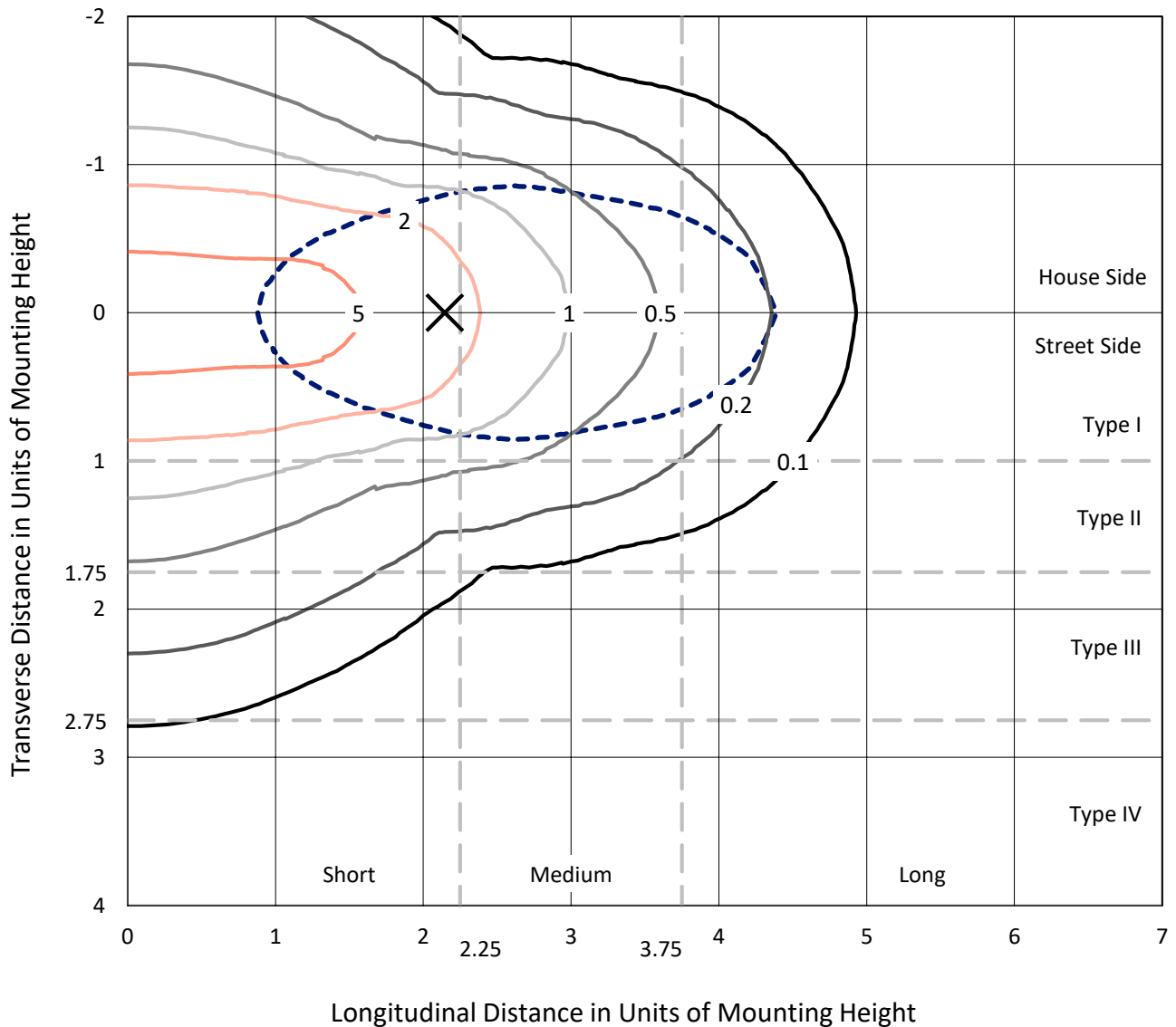
Input Watts (W): 312.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

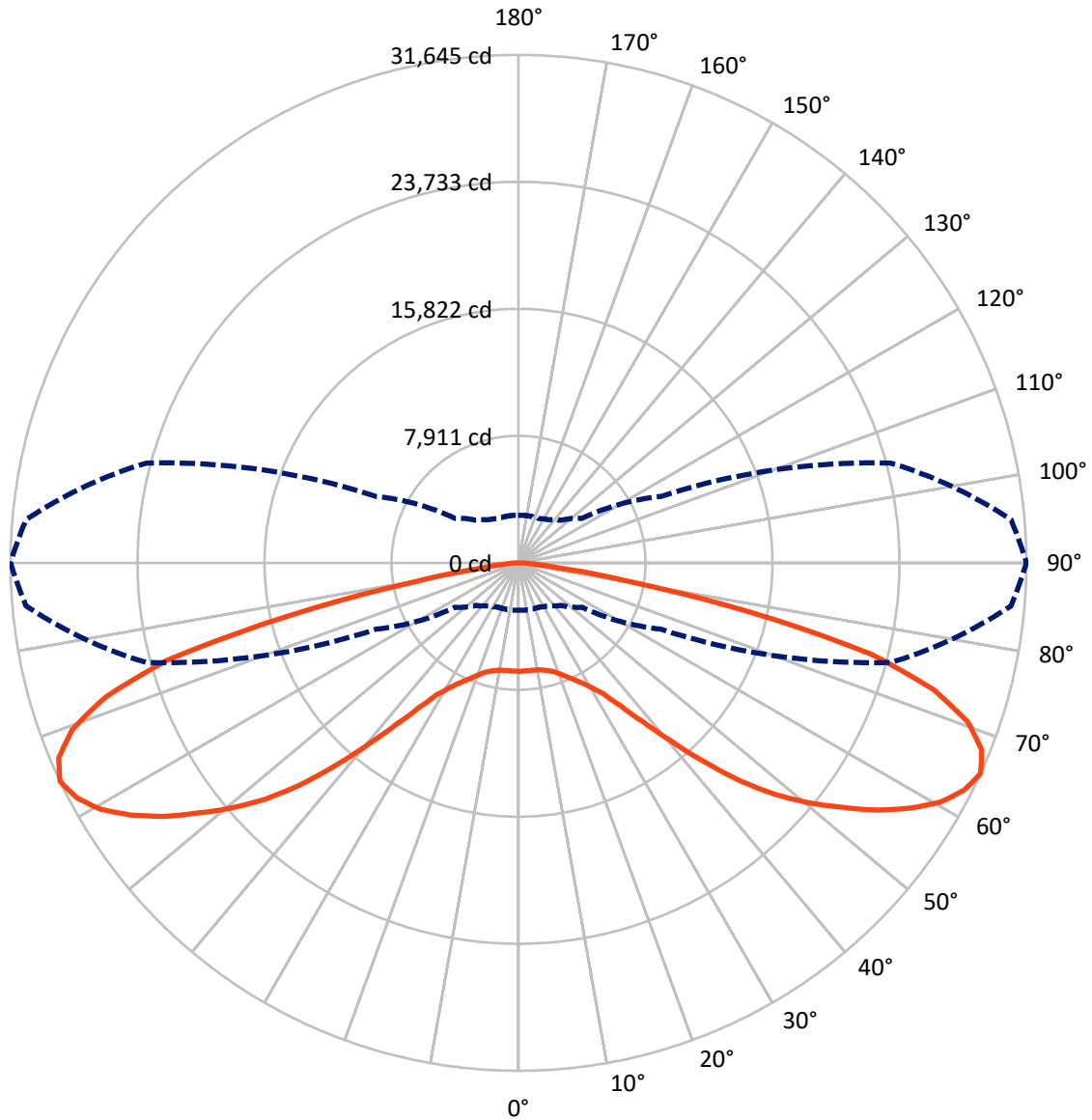
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 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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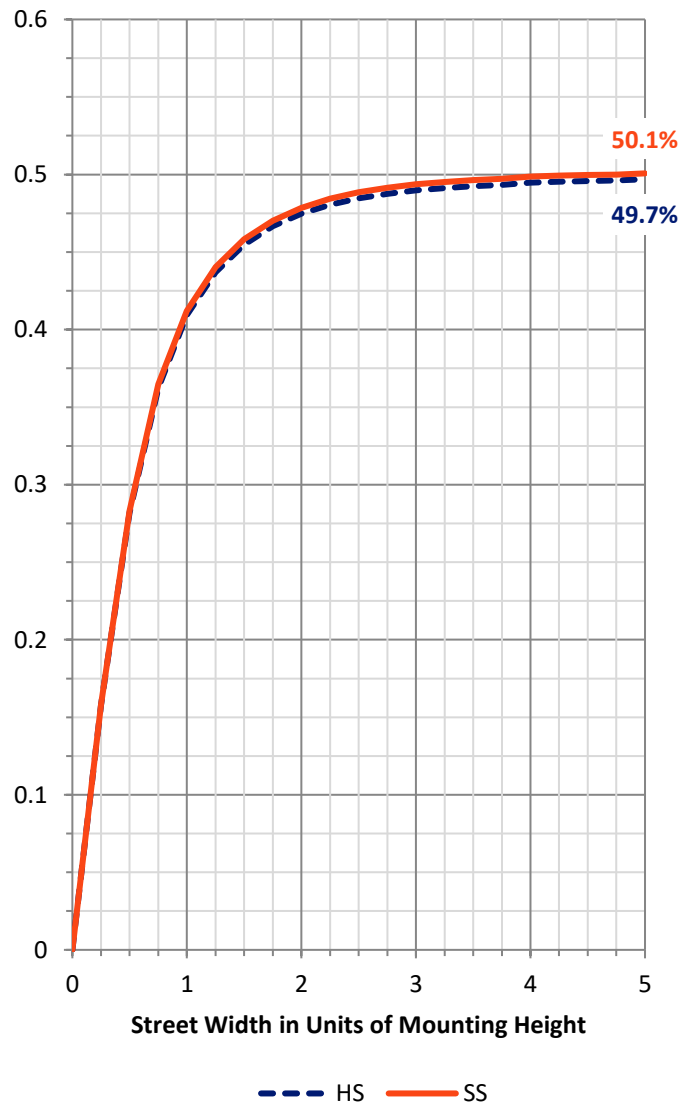
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20516.0	0.0	20516.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20516.0	0.0	20516.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	41032.0	0.0	41032.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	641.5	1.6
10°-20°	1893.0	4.6
20°-30°	3118.3	7.6
30°-40°	4568.7	11.1
40°-50°	6755.4	16.5
50°-60°	8861.3	21.6
60°-70°	9244.8	22.5
70°-80°	5315.3	13.0
80°-90°	633.6	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°	41032.0	100.0
0°-180°	41032.0	100.0

Coefficient of Utilization

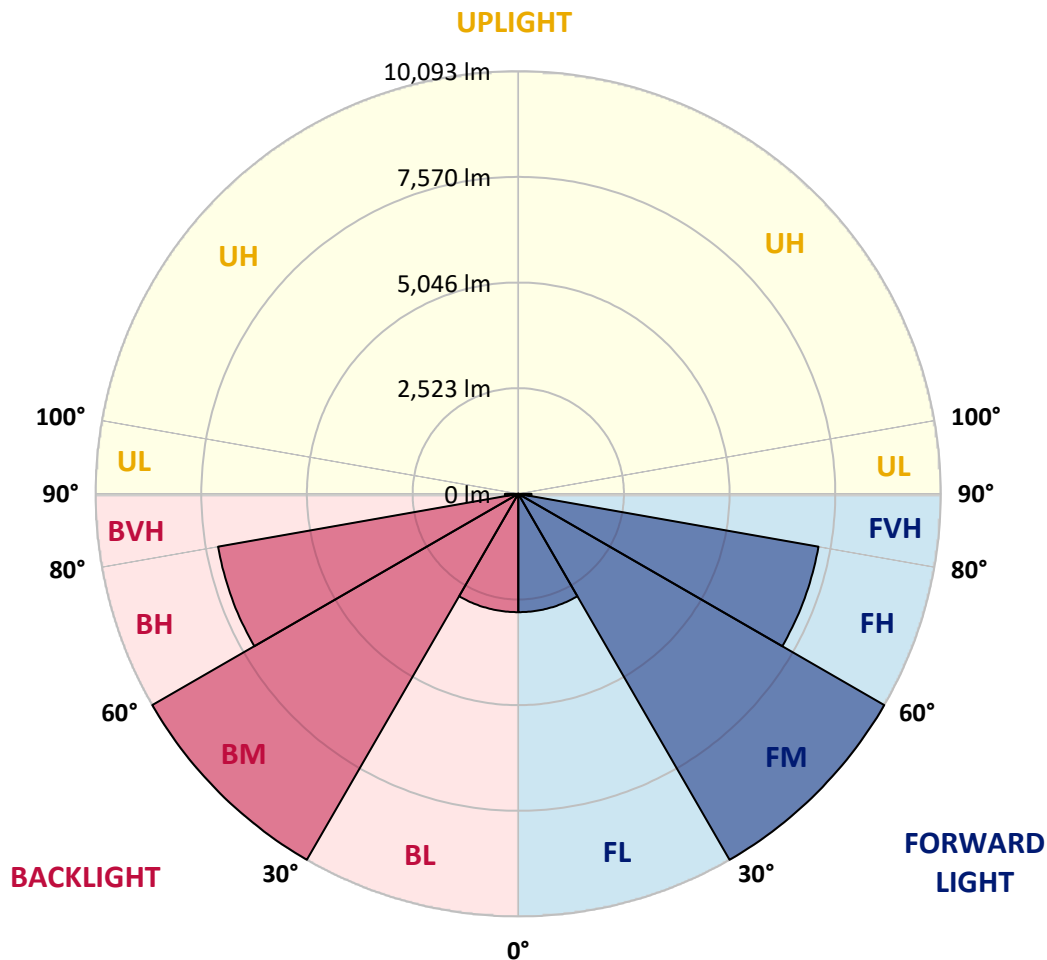


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2826.4	6.9			
FM (30°-60°)	10092.7	24.6			
FH (60°-80°)	7280.1	17.7			G3/7500
FVH (80°-90°)	316.8	0.8			G3/500
BL (0°-30°)	2826.4	6.9	B4/5000		
BM (30°-60°)	10092.7	24.6	B5		
BH (60°-80°)	7280.1	17.7	B5		G5
BVH (80°-90°)	316.8	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°	6759.9	6759.9	6759.9	6759.9	6759.9	6759.9	6759.9	6759.9	6759.9	6759.9	6759.9
2.5°	6758.3	6753.5	6751.9	6749.5	6753.5	6756.7	6764.7	6771.9	6770.3	6768.7	6770.3
5°	6720.6	6723.0	6723.8	6724.6	6727.8	6730.2	6741.5	6752.7	6751.1	6749.5	6757.5
7.5°	6667.7	6667.7	6666.1	6664.5	6670.9	6676.5	6687.7	6698.9	6707.8	6715.8	6728.6
10°	6590.7	6587.5	6586.7	6585.9	6593.1	6599.5	6620.4	6641.2	6658.9	6675.7	6697.3
12.5°	6496.9	6496.0	6497.7	6499.3	6514.5	6529.7	6565.0	6600.3	6635.6	6670.9	6702.2
15°	6385.4	6375.8	6383.8	6391.0	6415.9	6439.9	6508.1	6576.2	6630.0	6682.9	6743.9
17.5°	6215.4	6205.7	6217.8	6229.0	6278.7	6328.4	6424.7	6520.1	6621.2	6722.2	6809.6
20°	5957.9	5957.9	5988.4	6018.9	6103.1	6187.3	6319.6	6451.1	6587.5	6723.8	6850.5
22.5°	5683.6	5675.6	5740.6	5805.5	5906.6	6006.8	6173.7	6340.5	6520.9	6700.6	6874.6
25°	5374.1	5387.7	5469.5	5550.5	5692.5	5833.6	6038.9	6243.4	6470.4	6697.3	6938.7
27.5°	5112.6	5115.0	5213.7	5312.3	5490.4	5667.6	5917.0	6166.4	6443.1	6719.8	7023.8
30°	4842.4	4886.5	4990.7	5094.2	5293.1	5492.0	5793.5	6094.3	6422.3	6750.3	7120.8
32.5°	4634.6	4645.1	4763.0	4880.1	5087.8	5295.5	5645.9	5996.4	6390.2	6784.0	7234.7
35°	4439.0	4455.8	4565.7	4675.6	4892.1	5107.8	5492.0	5875.3	6346.1	6816.0	7358.2
37.5°	4264.9	4285.8	4390.0	4494.3	4702.8	4911.3	5318.7	5726.1	6277.9	6829.7	7493.7
40°	4137.4	4155.1	4243.3	4331.5	4520.0	4707.6	5134.3	5560.1	6182.5	6804.8	7600.4
42.5°	4045.2	4053.2	4124.6	4196.0	4364.4	4532.8	4955.4	5377.3	6058.2	6739.0	7683.0
45°	3920.1	3937.7	4008.3	4078.1	4229.6	4380.4	4767.0	5153.5	5873.7	6593.1	7683.8
47.5°	3827.1	3838.3	3904.8	3970.6	4111.8	4252.9	4600.2	4947.4	5665.2	6382.2	7597.2
50°	3758.9	3753.3	3815.0	3876.0	3995.5	4114.2	4423.7	4732.5	5407.0	6081.4	7380.6
52.5°	3661.8	3668.3	3718.0	3767.7	3871.2	3973.8	4251.3	4528.0	5120.7	5712.5	7029.4
55°	3531.9	3561.6	3603.3	3644.2	3734.8	3825.5	4074.9	4324.3	4834.3	5343.6	6577.0
57.5°	3404.4	3426.1	3461.4	3496.6	3568.0	3638.6	3873.6	4108.6	4532.8	4957.0	6006.0
60°	3300.2	3305.8	3328.2	3349.9	3404.4	3458.9	3653.0	3847.1	4217.6	4587.3	5436.6
62.5°	3165.4	3167.0	3182.3	3197.5	3231.2	3264.1	3416.4	3568.0	3884.0	4200.0	4870.4
65°	2954.5	2967.3	2981.8	2995.4	3017.9	3039.5	3155.8	3272.1	3508.7	3745.3	4285.8
67.5°	2741.2	2729.9	2746.8	2763.6	2766.8	2770.0	2858.3	2946.5	3140.6	3334.6	3769.3
70°	2393.9	2402.7	2401.1	2398.7	2385.1	2370.7	2432.4	2494.2	2596.8	2698.7	3013.0
72.5°	1835.7	1823.7	1793.2	1762.0	1747.5	1733.1	1805.3	1876.6	1952.0	2027.4	2254.4
75°	1122.0	1156.5	1219.8	1282.4	1306.4	1330.5	1326.5	1321.7	1315.2	1308.8	1591.9
77.5°	760.3	778.7	793.2	806.8	842.1	876.6	916.7	956.8	956.0	955.2	1133.2
80°	483.6	469.2	475.6	482.0	502.0	522.1	583.0	643.2	660.0	676.1	798.8
82.5°	303.1	305.6	313.6	320.8	298.3	275.9	323.2	369.7	409.8	449.1	506.1
85°	196.5	223.0	218.9	214.9	188.5	162.0	203.7	245.4	264.7	283.1	304.8
87.5°	63.4	73.8	76.2	77.8	77.8	77.0	85.8	94.6	97.8	100.2	108.3
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°	6759.9	6759.9	6759.9	6759.9	6759.9	6759.9	6759.9	6759.9
2.5°	6771.1	6763.1	6755.1	6752.7	6750.3	6748.7	6747.1	6745.5
5°	6764.7	6763.1	6761.5	6755.1	6748.7	6747.9	6747.1	6749.5
7.5°	6741.5	6741.5	6741.5	6748.7	6755.9	6752.7	6748.7	6753.5
10°	6718.2	6737.4	6756.7	6762.3	6767.9	6771.9	6775.9	6779.9
12.5°	6733.4	6766.3	6798.4	6816.8	6835.3	6844.9	6853.7	6856.1
15°	6804.8	6846.5	6888.2	6913.1	6937.1	6953.2	6969.2	6973.2
17.5°	6897.0	6961.2	7024.6	7060.6	7096.7	7115.2	7132.8	7127.2
20°	6976.4	7064.7	7152.9	7229.9	7306.9	7349.4	7391.1	7395.9
22.5°	7047.8	7196.2	7344.5	7444.0	7542.6	7618.0	7693.4	7701.4
25°	7179.3	7373.4	7567.5	7726.3	7885.1	7954.1	8022.2	8062.3
27.5°	7326.9	7586.7	7846.6	8059.1	8271.6	8376.7	8481.0	8486.6
30°	7490.5	7820.1	8148.9	8434.4	8719.1	8847.5	8975.0	9042.3
32.5°	7684.6	8103.2	8521.1	8896.4	9271.7	9466.6	9661.5	9729.6
35°	7899.5	8442.5	8984.6	9501.9	10018.4	10391.3	10764.2	10943.8
37.5°	8157.8	8849.1	9540.4	10317.5	11094.6	11730.6	12365.7	12547.0
40°	8395.9	9285.3	10173.9	11253.4	12332.9	13341.8	14349.9	14546.3
42.5°	8626.9	9703.2	10779.4	12251.9	13724.3	15074.8	16425.4	16936.2
45°	8773.7	10075.3	11376.1	13317.7	15259.3	17113.5	18966.9	19395.9
47.5°	8811.4	10340.7	11870.1	14275.3	16680.4	18862.6	21044.0	21594.9
50°	8679.8	10478.7	12277.5	15451.8	18625.2	20847.5	23069.0	23521.3
52.5°	8346.2	10434.6	12522.9	16363.6	20204.3	22556.5	24908.7	25319.4
55°	7810.5	10166.7	12522.9	17114.3	21704.8	24144.4	26583.3	27207.2
57.5°	7055.0	9655.1	12255.1	17615.5	22976.0	25625.7	28275.5	28836.0
60°	6285.9	9046.3	11806.0	17892.2	23978.4	26785.4	29592.3	30246.7
62.5°	5540.1	8219.5	10898.1	17601.9	24305.6	27269.0	30231.5	31173.0
65°	4826.3	7301.2	9776.2	16893.7	24010.5	27406.1	30800.9	31644.6
67.5°	4204.0	6533.7	8863.5	15706.8	22550.1	26308.2	30065.5	31116.9
70°	3327.4	5471.1	7614.8	13602.4	19590.0	23991.3	28392.5	29690.1
72.5°	2481.3	4299.4	6116.7	10700.0	15283.4	20344.7	25405.2	27038.0
75°	1874.2	3434.1	4993.9	8457.7	11921.5	16206.4	20491.4	22676.8
77.5°	1311.2	2481.3	3650.6	6234.6	8818.6	11190.8	13563.1	14727.6
80°	920.7	1569.5	2217.5	3460.5	4702.8	5755.0	6806.4	6723.0
82.5°	562.2	834.9	1106.7	1501.3	1895.9	2150.1	2404.3	2393.1
85°	326.4	397.0	466.8	578.2	689.7	815.6	941.5	837.3
87.5°	115.5	115.5	115.5	132.3	149.2	205.3	261.4	275.9
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



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 CATALOG NUMBER: CST-CA10-310-722-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)