

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: P510415

Luminaire Tested: **CST-CA10-210-730-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510415
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-CA10-210-730-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35609 lumens
Efficiency: N/A
Efficacy: 167.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

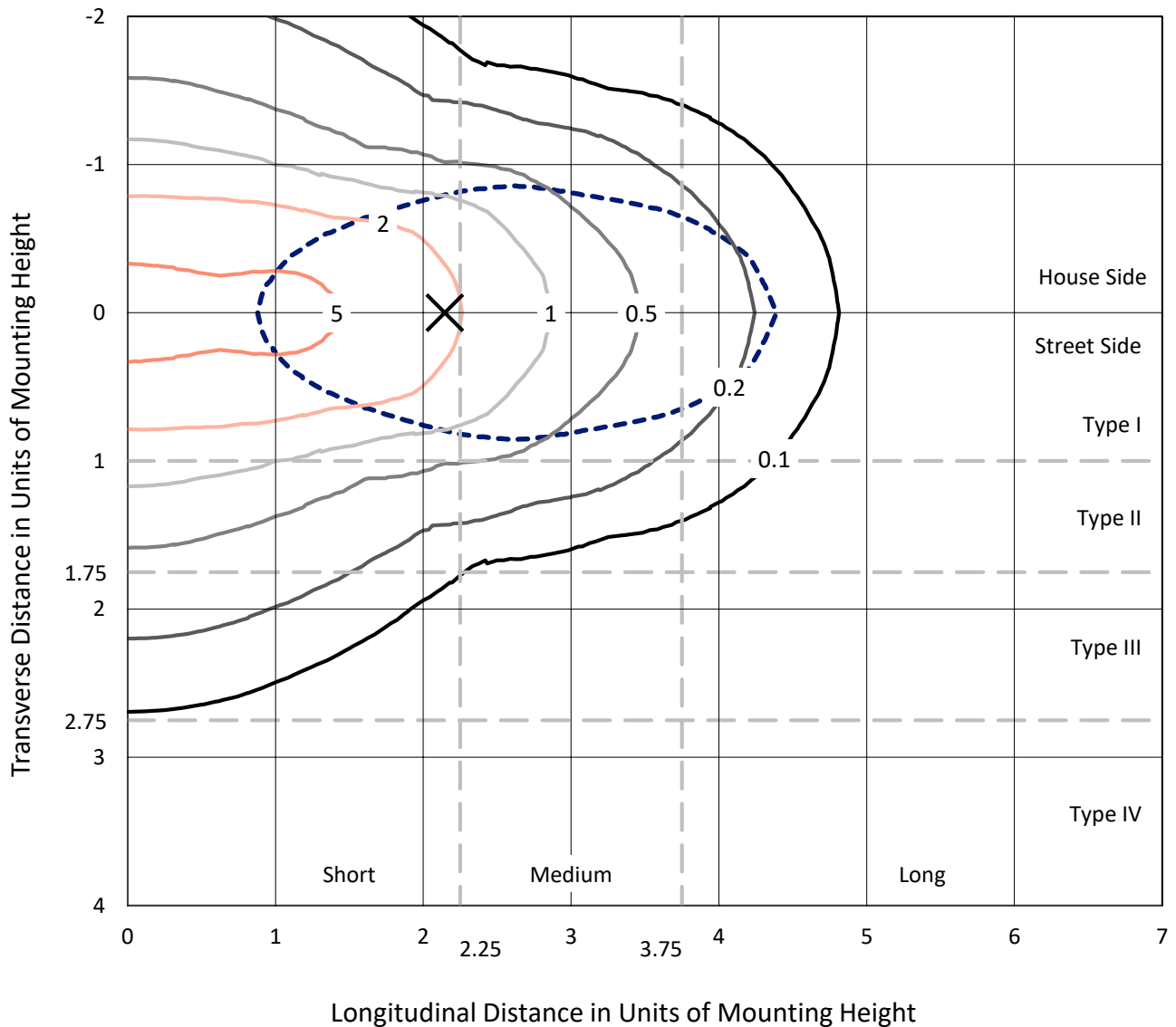
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

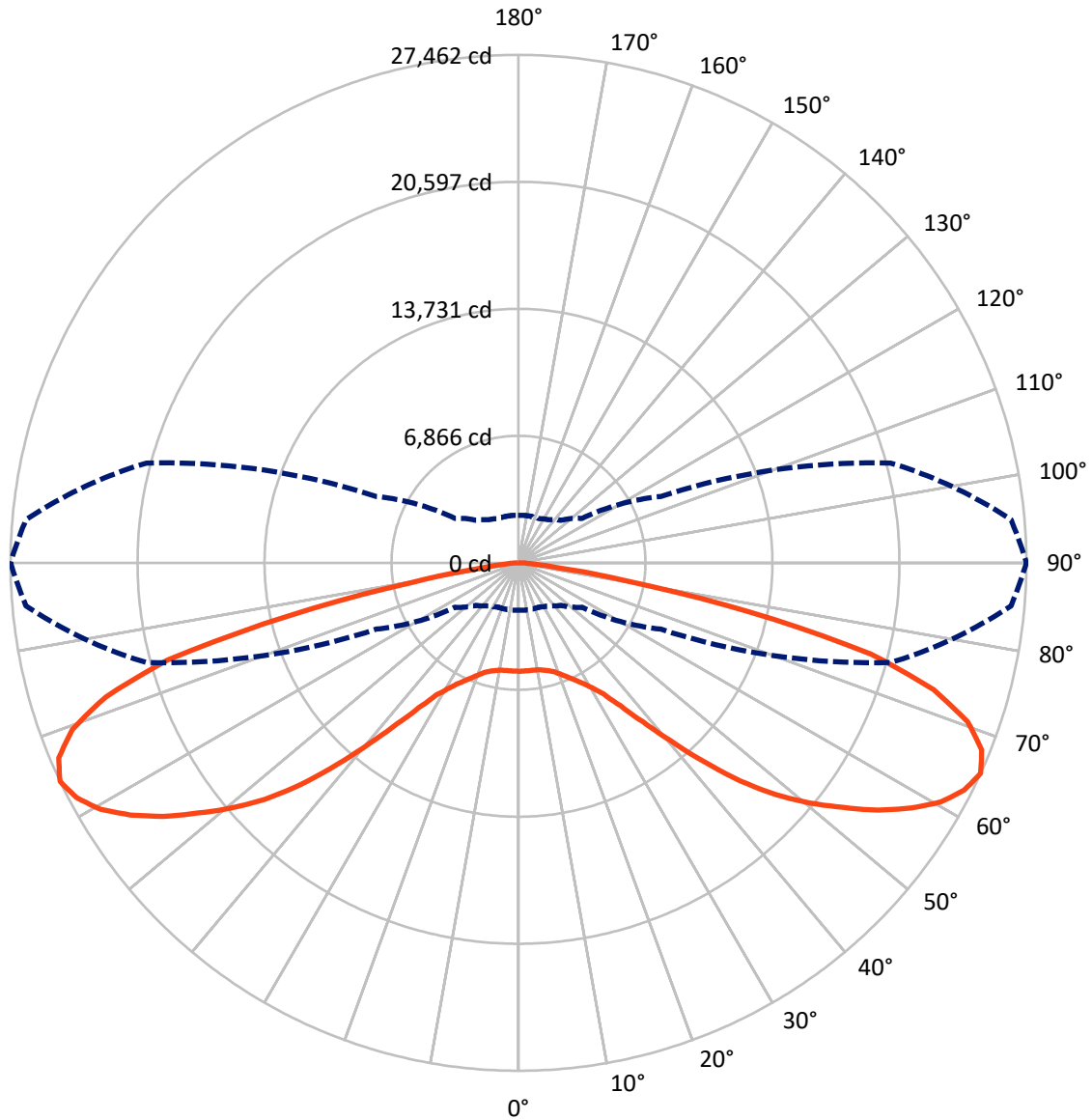
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.6 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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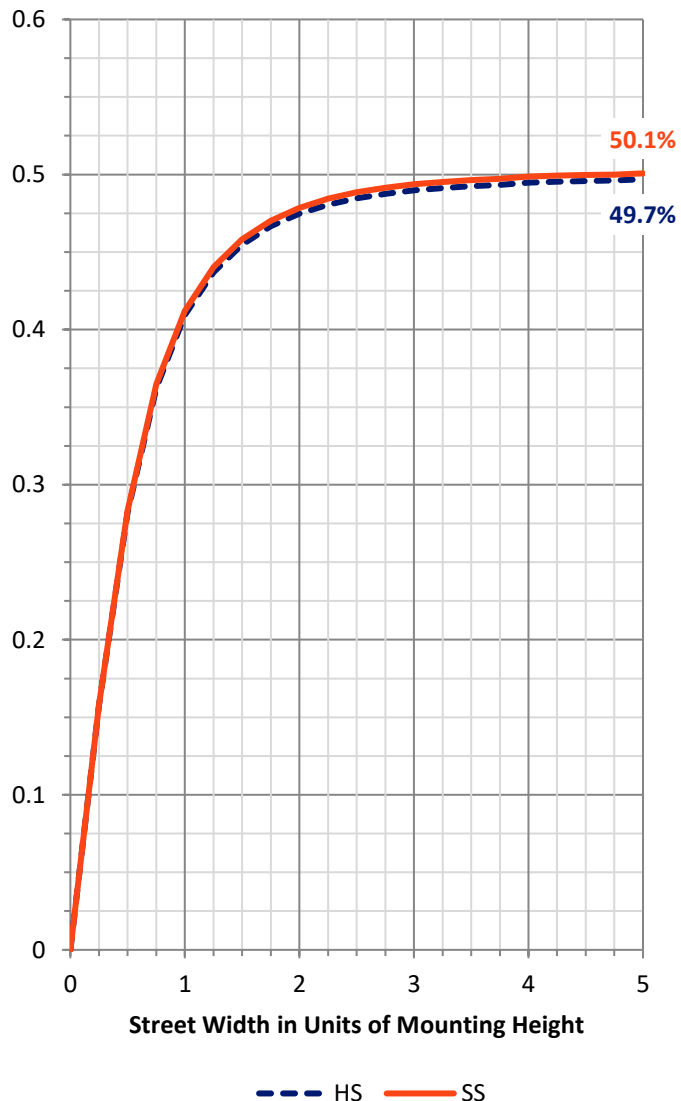
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17804.5	0.0	17804.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17804.5	0.0	17804.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	35609.0	0.0	35609.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.7	1.6
10°-20°	1642.9	4.6
20°-30°	2706.2	7.6
30°-40°	3964.9	11.1
40°-50°	5862.5	16.5
50°-60°	7690.1	21.6
60°-70°	8023.0	22.5
70°-80°	4612.8	13.0
80°-90°	549.9	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°	35609.0	100.0
0°-180°	35609.0	100.0

Coefficient of Utilization

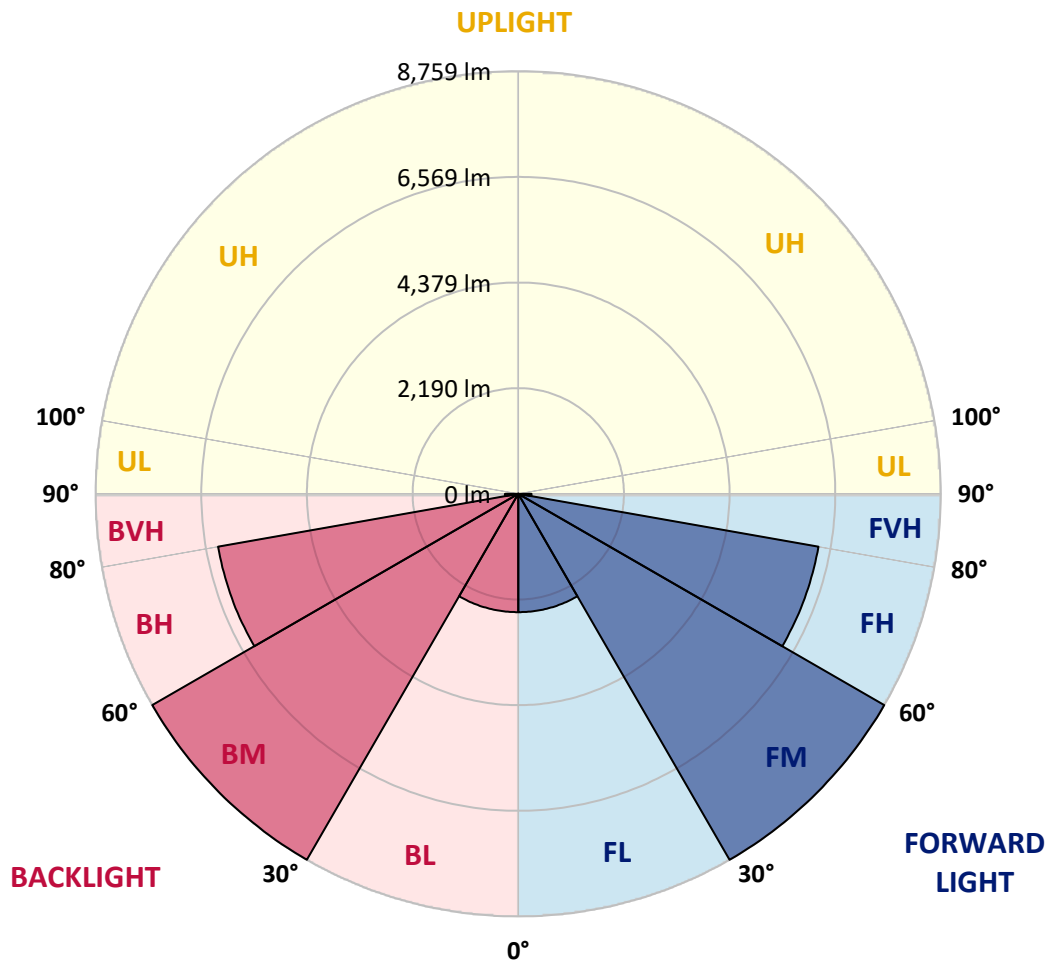


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2452.9	6.9			
FM (30°-60°)	8758.8	24.6			
FH (60°-80°)	6317.9	17.7			G3/7500
FVH (80°-90°)	274.9	0.8			G3/500
BL (0°-30°)	2452.9	6.9	B3/2500		
BM (30°-60°)	8758.8	24.6	B5		
BH (60°-80°)	6317.9	17.7	B5		G5
BVH (80°-90°)	274.9	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°	5866.5	5866.5	5866.5	5866.5	5866.5	5866.5	5866.5	5866.5	5866.5	5866.5	5866.5
2.5°	5865.1	5860.9	5859.5	5857.4	5860.9	5863.7	5870.7	5876.9	5875.5	5874.1	5875.5
5°	5832.4	5834.5	5835.2	5835.9	5838.6	5840.7	5850.5	5860.2	5858.8	5857.4	5864.4
7.5°	5786.4	5786.4	5785.0	5783.7	5789.2	5794.1	5803.8	5813.6	5821.2	5828.2	5839.3
10°	5719.6	5716.8	5716.1	5715.4	5721.7	5727.3	5745.4	5763.5	5778.8	5793.4	5812.2
12.5°	5638.2	5637.5	5638.9	5640.3	5653.5	5666.7	5697.4	5728.0	5758.6	5789.2	5816.4
15°	5541.5	5533.1	5540.1	5546.3	5567.9	5588.8	5647.9	5707.1	5753.7	5799.7	5852.6
17.5°	5393.9	5385.5	5396.0	5405.7	5448.9	5492.0	5575.6	5658.4	5746.1	5833.8	5909.6
20°	5170.5	5170.5	5196.9	5223.4	5296.5	5369.5	5484.4	5598.5	5716.8	5835.2	5945.1
22.5°	4932.5	4925.5	4981.9	5038.3	5125.9	5212.9	5357.7	5502.5	5659.1	5815.0	5966.0
25°	4663.8	4675.6	4746.6	4816.9	4940.1	5062.6	5240.8	5418.3	5615.2	5812.2	6021.7
27.5°	4436.9	4439.0	4524.6	4610.2	4764.7	4918.5	5135.0	5351.4	5591.6	5831.7	6095.5
30°	4202.4	4240.7	4331.1	4420.9	4593.5	4766.1	5027.8	5288.8	5573.5	5858.1	6179.7
32.5°	4022.1	4031.2	4133.5	4235.1	4415.3	4595.6	4899.8	5203.9	5545.6	5887.4	6278.5
35°	3852.3	3866.9	3962.3	4057.6	4245.5	4432.7	4766.1	5098.8	5507.3	5915.2	6385.7
37.5°	3701.3	3719.4	3809.8	3900.3	4081.3	4262.2	4615.8	4969.3	5448.2	5927.0	6503.3
40°	3590.6	3605.9	3682.5	3759.0	3922.6	4085.4	4455.7	4825.3	5365.4	5905.5	6595.9
42.5°	3510.6	3517.5	3579.5	3641.4	3787.6	3933.7	4300.5	4666.6	5257.5	5848.4	6667.6
45°	3402.0	3417.3	3478.5	3539.1	3670.6	3801.5	4136.9	4472.4	5097.4	5721.7	6668.3
47.5°	3321.3	3331.0	3388.8	3445.8	3568.3	3690.8	3992.2	4293.5	4916.5	5538.7	6593.1
50°	3262.1	3257.2	3310.8	3363.7	3467.4	3570.4	3839.1	4107.0	4692.3	5277.7	6405.2
52.5°	3177.9	3183.4	3226.6	3269.7	3359.5	3448.6	3689.4	3929.5	4443.9	4957.5	6100.3
55°	3065.1	3090.9	3127.1	3162.6	3241.2	3319.9	3536.3	3752.8	4195.4	4637.4	5707.8
57.5°	2954.5	2973.3	3003.9	3034.5	3096.4	3157.7	3361.6	3565.5	3933.7	4301.9	5212.2
60°	2864.0	2868.9	2888.3	2907.1	2954.5	3001.8	3170.2	3338.7	3660.2	3981.0	4718.1
62.5°	2747.1	2748.5	2761.7	2774.9	2804.1	2832.7	2964.9	3096.4	3370.7	3644.9	4226.7
65°	2564.0	2575.2	2587.7	2599.5	2619.0	2637.8	2738.7	2839.6	3044.9	3250.3	3719.4
67.5°	2378.9	2369.1	2383.8	2398.4	2401.2	2403.9	2480.5	2557.1	2725.5	2893.9	3271.1
70°	2077.5	2085.2	2083.8	2081.7	2069.9	2057.3	2110.9	2164.5	2253.6	2342.0	2614.8
72.5°	1593.1	1582.7	1556.2	1529.1	1516.6	1504.0	1566.7	1628.6	1694.0	1759.5	1956.4
75°	973.7	1003.6	1058.6	1112.9	1133.8	1154.6	1151.2	1147.0	1141.4	1135.9	1381.5
77.5°	659.8	675.8	688.3	700.2	730.8	760.7	795.5	830.3	829.6	828.9	983.4
80°	419.7	407.2	412.7	418.3	435.7	453.1	506.0	558.2	572.8	586.7	693.2
82.5°	263.1	265.2	272.1	278.4	258.9	239.4	280.5	320.9	355.6	389.8	439.2
85°	170.5	193.5	190.0	186.5	163.6	140.6	176.8	213.0	229.7	245.7	264.5
87.5°	55.0	64.0	66.1	67.5	67.5	66.8	74.5	82.1	84.9	87.0	94.0
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°	5866.5	5866.5	5866.5	5866.5	5866.5	5866.5	5866.5	5866.5
2.5°	5876.2	5869.3	5862.3	5860.2	5858.1	5856.7	5855.3	5853.9
5°	5870.7	5869.3	5867.9	5862.3	5856.7	5856.0	5855.3	5857.4
7.5°	5850.5	5850.5	5850.5	5856.7	5863.0	5860.2	5856.7	5860.9
10°	5830.3	5847.0	5863.7	5868.6	5873.4	5876.9	5880.4	5883.9
12.5°	5843.5	5872.0	5899.9	5915.9	5931.9	5940.3	5947.9	5950.0
15°	5905.5	5941.6	5977.8	5999.4	6020.3	6034.2	6048.1	6051.6
17.5°	5985.5	6041.2	6096.2	6127.5	6158.8	6174.8	6190.1	6185.2
20°	6054.4	6131.0	6207.5	6274.3	6341.1	6378.0	6414.2	6418.4
22.5°	6116.3	6245.1	6373.9	6460.2	6545.8	6611.2	6676.6	6683.6
25°	6230.5	6398.9	6567.3	6705.1	6842.9	6902.8	6962.0	6996.8
27.5°	6358.5	6584.0	6809.5	6994.0	7178.4	7269.6	7360.1	7364.9
30°	6500.5	6786.6	7071.9	7319.7	7566.8	7678.1	7788.8	7847.3
32.5°	6669.0	7032.3	7394.9	7720.6	8046.3	8215.4	8384.6	8443.7
35°	6855.5	7326.7	7797.1	8246.1	8694.3	9017.9	9341.5	9497.4
37.5°	7079.6	7679.5	8279.5	8953.9	9628.3	10180.2	10731.4	10888.7
40°	7286.3	8058.1	8829.3	9766.1	10702.9	11578.4	12453.3	12623.8
42.5°	7486.7	8420.8	9354.8	10632.6	11910.4	13082.5	14254.5	14697.9
45°	7614.1	8743.7	9872.6	11557.6	13242.6	14851.7	16460.1	16832.5
47.5°	7646.8	8974.1	10301.3	12388.6	14475.8	16369.6	18262.7	18740.9
50°	7532.7	9093.8	10654.9	13409.6	16163.6	18092.2	20020.1	20412.6
52.5°	7243.1	9055.5	10867.8	14200.9	17534.0	19575.3	21616.7	21973.0
55°	6778.2	8823.0	10867.8	14852.4	18836.2	20953.4	23069.9	23611.4
57.5°	6122.6	8379.0	10635.4	15287.4	19939.3	22238.9	24538.4	25024.9
60°	5455.1	7850.7	10245.6	15527.5	20809.3	23245.3	25681.2	26249.2
62.5°	4807.9	7133.2	9457.8	15275.5	21093.3	23665.0	26235.9	27053.0
65°	4188.5	6336.3	8484.1	14661.0	20837.2	23784.0	26730.1	27462.3
67.5°	3648.4	5670.2	7692.1	13630.9	19569.8	22831.2	26091.9	27004.3
70°	2887.7	4748.0	6608.4	11804.6	17000.9	20820.5	24640.0	25766.1
72.5°	2153.4	3731.2	5308.3	9285.9	13263.4	17655.8	22047.5	23464.5
75°	1626.5	2980.2	4333.9	7339.9	10345.9	14064.5	17783.2	19679.7
77.5°	1137.9	2153.4	3168.1	5410.6	7653.1	9711.8	11770.5	12781.1
80°	799.0	1362.0	1924.4	3003.2	4081.3	4994.4	5906.8	5834.5
82.5°	487.9	724.5	960.5	1302.9	1645.3	1865.9	2086.6	2076.8
85°	283.3	344.5	405.1	501.8	598.5	707.8	817.1	726.6
87.5°	100.2	100.2	100.2	114.8	129.5	178.2	226.9	239.4
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-CA10-210-730-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)