

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: P510815

Luminaire Tested: **CST-CA8-480-722-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510815
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-CA8-480-722-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60184 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

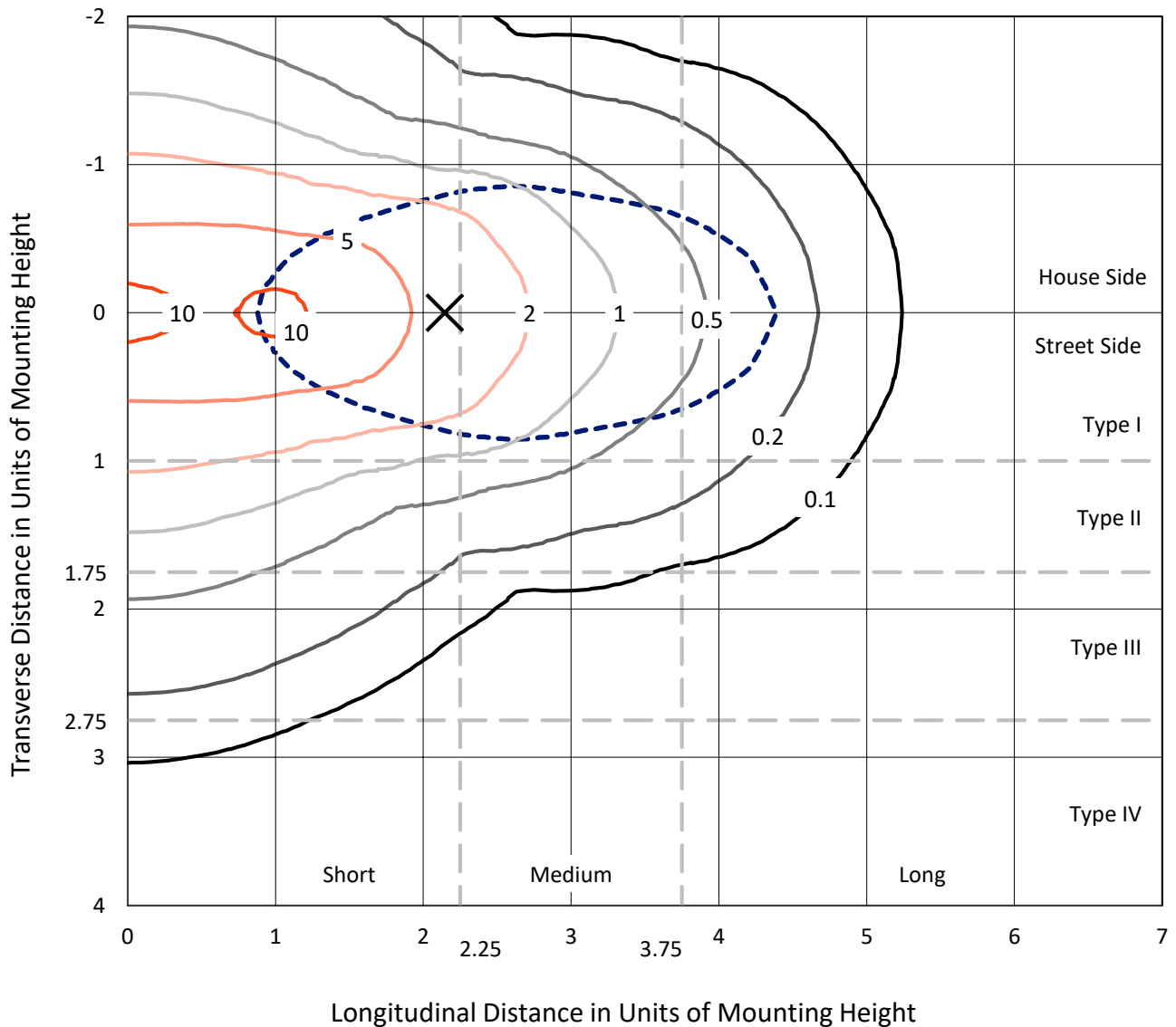
Input Watts (W): 480.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

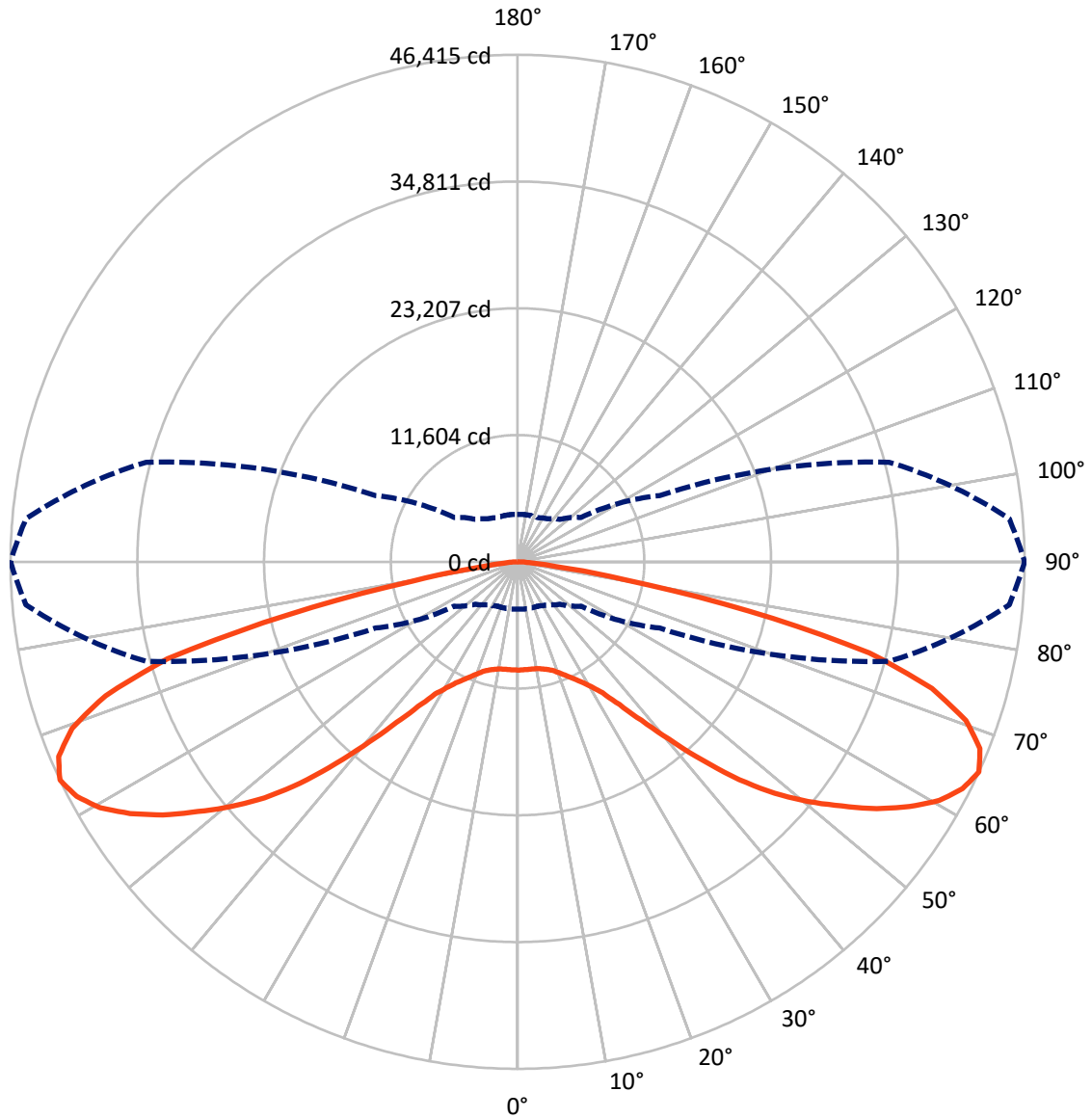
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.2 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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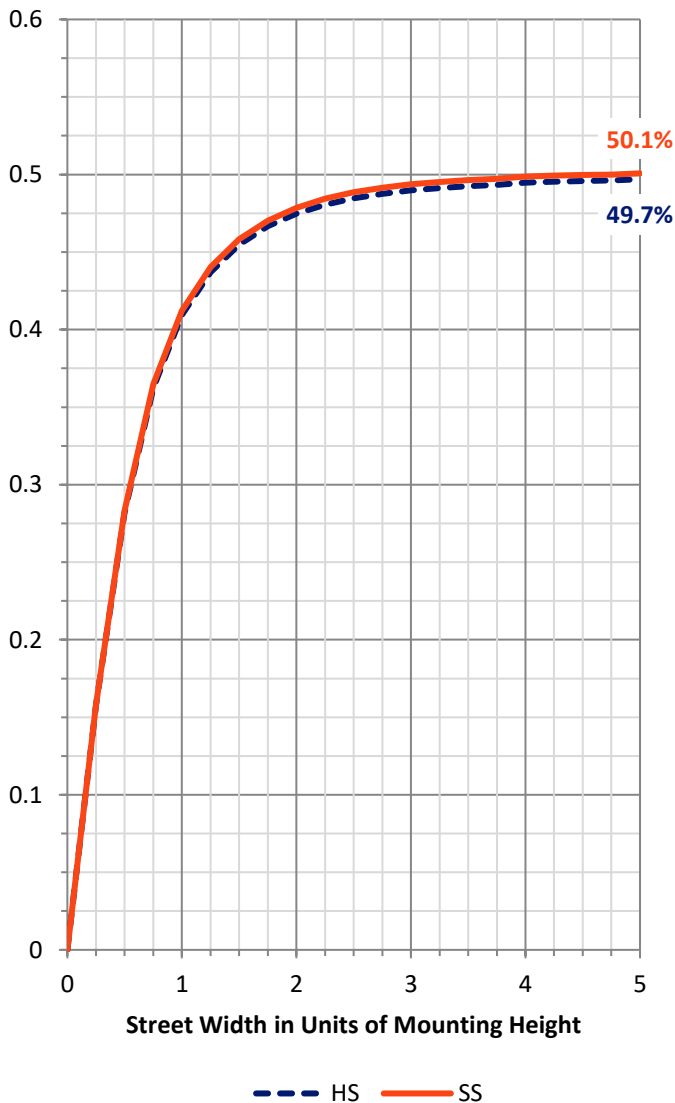
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	30092.0	0.0	30092.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30092.0	0.0	30092.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	60184.0	0.0	60184.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	940.9	1.6
10°-20°	2776.6	4.6
20°-30°	4573.8	7.6
30°-40°	6701.2	11.1
40°-50°	9908.5	16.5
50°-60°	12997.4	21.6
60°-70°	13559.9	22.5
70°-80°	7796.2	13.0
80°-90°	929.4	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°	60184.0	100.0
0°-180°	60184.0	100.0

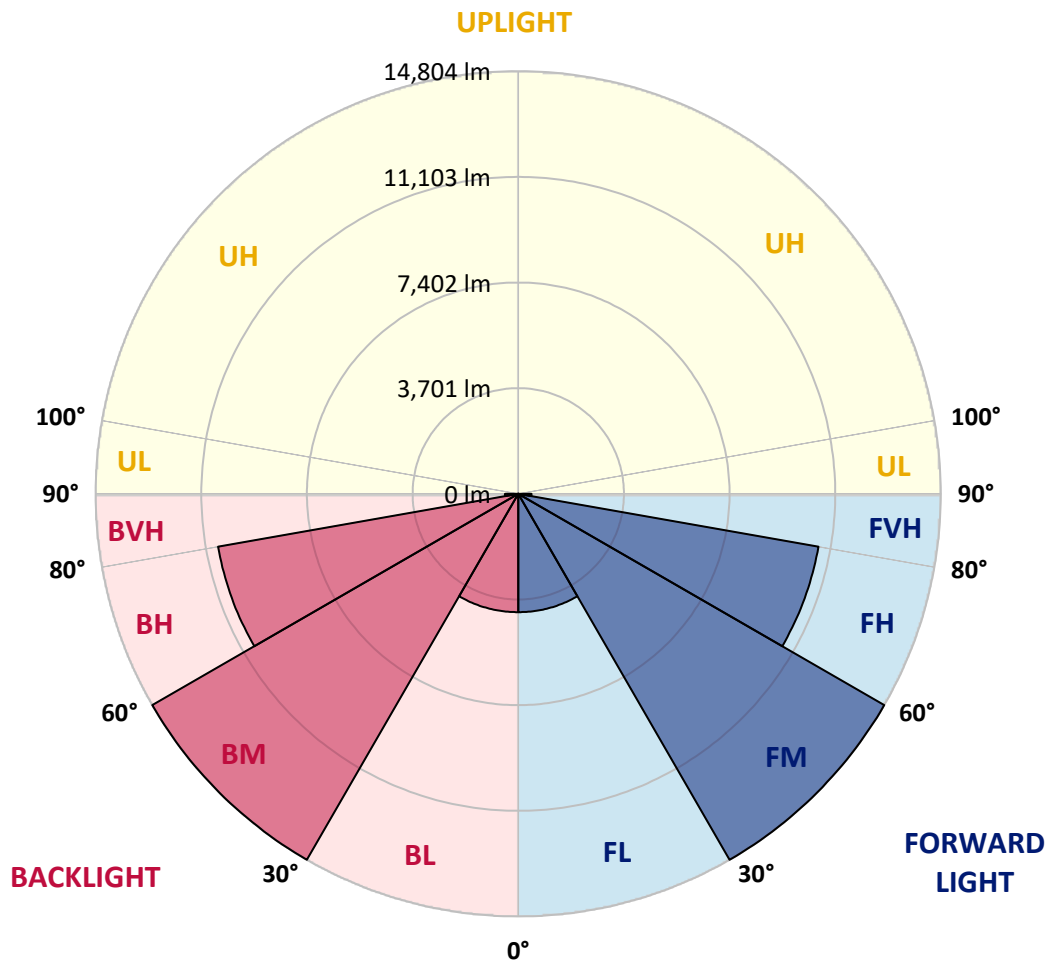


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4145.7	6.9			
FM (30°-60°)	14803.5	24.6			
FH (60°-80°)	10678.1	17.7			G4/12000
FVH (80°-90°)	464.7	0.8			G3/500
BL (0°-30°)	4145.7	6.9	B4/5000		
BM (30°-60°)	14803.5	24.6	B5		
BH (60°-80°)	10678.1	17.7	B5		G5
BVH (80°-90°)	464.7	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°	9915.1	9915.1	9915.1	9915.1	9915.1	9915.1	9915.1	9915.1	9915.1	9915.1	9915.1
2.5°	9912.8	9905.7	9903.4	9899.8	9905.7	9910.4	9922.2	9932.8	9930.4	9928.1	9930.4
5°	9857.5	9861.0	9862.2	9863.4	9868.1	9871.6	9888.1	9904.5	9902.2	9899.8	9911.6
7.5°	9779.9	9779.9	9777.5	9775.2	9784.6	9792.8	9809.3	9825.7	9838.7	9850.4	9869.3
10°	9666.9	9662.2	9661.1	9659.9	9670.5	9679.9	9710.5	9741.0	9766.9	9791.6	9823.4
12.5°	9529.3	9528.1	9530.5	9532.8	9555.2	9577.5	9629.3	9681.0	9732.8	9784.6	9830.4
15°	9365.8	9351.7	9363.4	9374.0	9410.5	9445.8	9545.8	9645.8	9724.6	9802.2	9891.6
17.5°	9116.4	9102.3	9119.9	9136.4	9209.3	9282.3	9423.4	9563.4	9711.6	9859.8	9988.1
20°	8738.8	8738.8	8783.5	8828.2	8951.7	9075.2	9269.3	9462.3	9662.2	9862.2	10048.1
22.5°	8336.5	8324.8	8420.0	8515.3	8663.5	8810.6	9055.3	9299.9	9564.6	9828.1	10083.3
25°	7882.5	7902.5	8022.4	8141.3	8349.5	8556.5	8857.6	9157.6	9490.5	9823.4	10177.5
27.5°	7499.0	7502.5	7647.2	7791.9	8053.0	8313.0	8678.8	9044.7	9450.5	9856.3	10302.1
30°	7102.6	7167.3	7320.2	7471.9	7763.7	8055.4	8497.7	8938.8	9419.9	9901.0	10444.5
32.5°	6797.9	6813.2	6986.1	7157.9	7462.5	7767.2	8281.2	8795.3	9372.9	9950.4	10611.5
35°	6510.9	6535.6	6696.7	6857.9	7175.5	7491.9	8055.4	8617.7	9308.2	9997.5	10792.7
37.5°	6255.6	6286.2	6439.1	6592.1	6897.9	7203.7	7801.3	8398.9	9208.2	10017.5	10991.5
40°	6068.6	6094.5	6223.9	6353.3	6629.7	6905.0	7530.8	8155.4	9068.2	9981.0	11147.9
42.5°	5933.3	5945.1	6049.8	6154.5	6401.5	6648.5	7268.4	7887.2	8885.9	9884.6	11269.1
45°	5749.8	5775.7	5879.2	5981.5	6203.9	6425.0	6992.0	7559.0	8615.3	9670.5	11270.2
47.5°	5613.4	5629.8	5727.5	5823.9	6031.0	6238.0	6747.3	7256.7	8309.5	9361.1	11143.2
50°	5513.4	5505.1	5595.7	5685.1	5860.4	6034.5	6488.5	6941.4	7930.7	8920.0	10825.6
52.5°	5371.0	5380.5	5453.4	5526.3	5678.1	5828.6	6235.6	6641.5	7510.8	8378.9	10310.4
55°	5180.5	5224.0	5285.2	5345.2	5478.1	5611.0	5976.8	6342.7	7090.8	7837.8	9646.9
57.5°	4993.4	5025.2	5077.0	5128.7	5233.4	5336.9	5681.6	6026.2	6648.5	7270.8	8809.4
60°	4840.5	4848.8	4881.7	4913.5	4993.4	5073.4	5358.1	5642.8	6186.2	6728.5	7974.2
62.5°	4642.9	4645.3	4667.6	4690.0	4739.4	4787.6	5011.1	5233.4	5696.9	6160.3	7143.7
65°	4333.5	4352.4	4373.5	4393.5	4426.5	4458.2	4628.8	4799.4	5146.4	5493.4	6286.2
67.5°	4020.6	4004.2	4028.9	4053.6	4058.3	4063.0	4192.4	4321.8	4606.4	4891.1	5528.7
70°	3511.3	3524.2	3521.9	3518.3	3498.4	3477.2	3567.8	3658.3	3808.9	3958.3	4419.4
72.5°	2692.6	2674.9	2630.2	2584.4	2563.2	2542.0	2647.9	2752.6	2863.1	2973.7	3306.6
75°	1645.7	1696.2	1789.2	1880.9	1916.2	1951.5	1945.6	1938.6	1929.2	1919.7	2335.0
77.5°	1115.1	1142.2	1163.4	1183.4	1235.1	1285.7	1344.5	1403.3	1402.2	1401.0	1662.1
80°	709.3	688.1	697.6	707.0	736.4	765.8	855.2	943.4	968.1	991.6	1171.6
82.5°	444.6	448.2	459.9	470.5	437.6	404.7	474.1	542.3	601.1	658.7	742.3
85°	288.2	327.0	321.1	315.3	276.4	237.6	298.8	360.0	388.2	415.2	447.0
87.5°	92.9	108.2	111.7	114.1	114.1	112.9	125.9	138.8	143.5	147.0	158.8
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°	9915.1	9915.1	9915.1	9915.1	9915.1	9915.1	9915.1	9915.1
2.5°	9931.6	9919.8	9908.1	9904.5	9901.0	9898.7	9896.3	9894.0
5°	9922.2	9919.8	9917.5	9908.1	9898.7	9897.5	9896.3	9899.8
7.5°	9888.1	9888.1	9888.1	9898.7	9909.3	9904.5	9898.7	9905.7
10°	9854.0	9882.2	9910.4	9918.7	9926.9	9932.8	9938.7	9944.5
12.5°	9876.3	9924.5	9971.6	9998.7	10025.7	10039.8	10052.8	10056.3
15°	9981.0	10042.2	10103.3	10139.8	10175.1	10198.6	10222.2	10228.0
17.5°	10116.3	10210.4	10303.3	10356.3	10409.2	10436.2	10462.1	10453.9
20°	10232.7	10362.1	10491.5	10604.5	10717.4	10779.7	10840.9	10848.0
22.5°	10337.4	10555.0	10772.7	10918.5	11063.2	11173.8	11284.4	11296.1
25°	10530.3	10815.0	11099.7	11332.6	11565.5	11666.7	11766.7	11825.5
27.5°	10746.8	11127.9	11509.0	11820.8	12132.5	12286.6	12439.5	12447.7
30°	10986.8	11470.2	11952.5	12371.3	12788.9	12977.1	13164.1	13262.9
32.5°	11271.4	11885.5	12498.3	13048.8	13599.3	13885.2	14171.0	14271.0
35°	11586.7	12383.0	13178.2	13936.9	14694.5	15241.5	15788.5	16052.0
37.5°	11965.4	12979.4	13993.4	15133.3	16273.1	17205.9	18137.6	18403.4
40°	12314.8	13619.3	14922.7	16506.0	18089.3	19569.1	21047.8	21336.0
42.5°	12653.6	14232.2	15810.8	17970.5	20130.2	22111.1	24092.0	24841.4
45°	12868.9	14778.0	16686.0	19533.8	22381.7	25101.3	27819.8	28449.1
47.5°	12924.1	15167.4	17410.6	20938.4	24466.1	27666.9	30866.4	31674.6
50°	12731.2	15369.7	18008.2	22664.0	27318.7	30578.2	33836.6	34500.1
52.5°	12241.9	15305.0	18368.1	24001.5	29634.8	33085.0	36535.1	37137.4
55°	11456.1	14912.1	18368.1	25102.5	31835.7	35414.1	38991.2	39906.4
57.5°	10348.0	14161.6	17975.2	25837.7	33700.2	37586.7	41473.2	42295.5
60°	9219.9	13268.8	17316.5	26243.5	35170.6	39287.7	43404.7	44364.6
62.5°	8126.0	12056.0	15984.9	25817.7	35650.5	39997.0	44342.3	45723.3
65°	7079.0	10709.1	14339.2	24779.0	35217.6	40198.1	45177.4	46414.9
67.5°	6166.2	9583.4	13000.6	23038.1	33075.5	38587.7	44098.8	45640.9
70°	4880.5	8024.8	11169.1	19951.4	28733.8	35189.4	41645.0	43548.3
72.5°	3639.5	6306.2	8971.7	15694.4	22417.0	29840.7	37263.2	39658.2
75°	2749.0	5037.0	7324.9	12405.4	17485.9	23770.9	30056.0	33261.4
77.5°	1923.3	3639.5	5354.6	9144.7	12934.7	16414.3	19893.8	21601.8
80°	1350.4	2302.0	3252.5	5075.8	6897.9	8441.2	9983.4	9861.0
82.5°	824.6	1224.5	1623.3	2202.1	2780.8	3153.7	3526.6	3510.1
85°	478.8	582.3	684.6	848.1	1011.6	1196.3	1381.0	1228.1
87.5°	169.4	169.4	169.4	194.1	218.8	301.1	383.5	404.7
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-CA8-480-722-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)