

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: P510765

Luminaire Tested: **CST-CA8-330-727-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510765
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-CA8-330-727-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43070 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

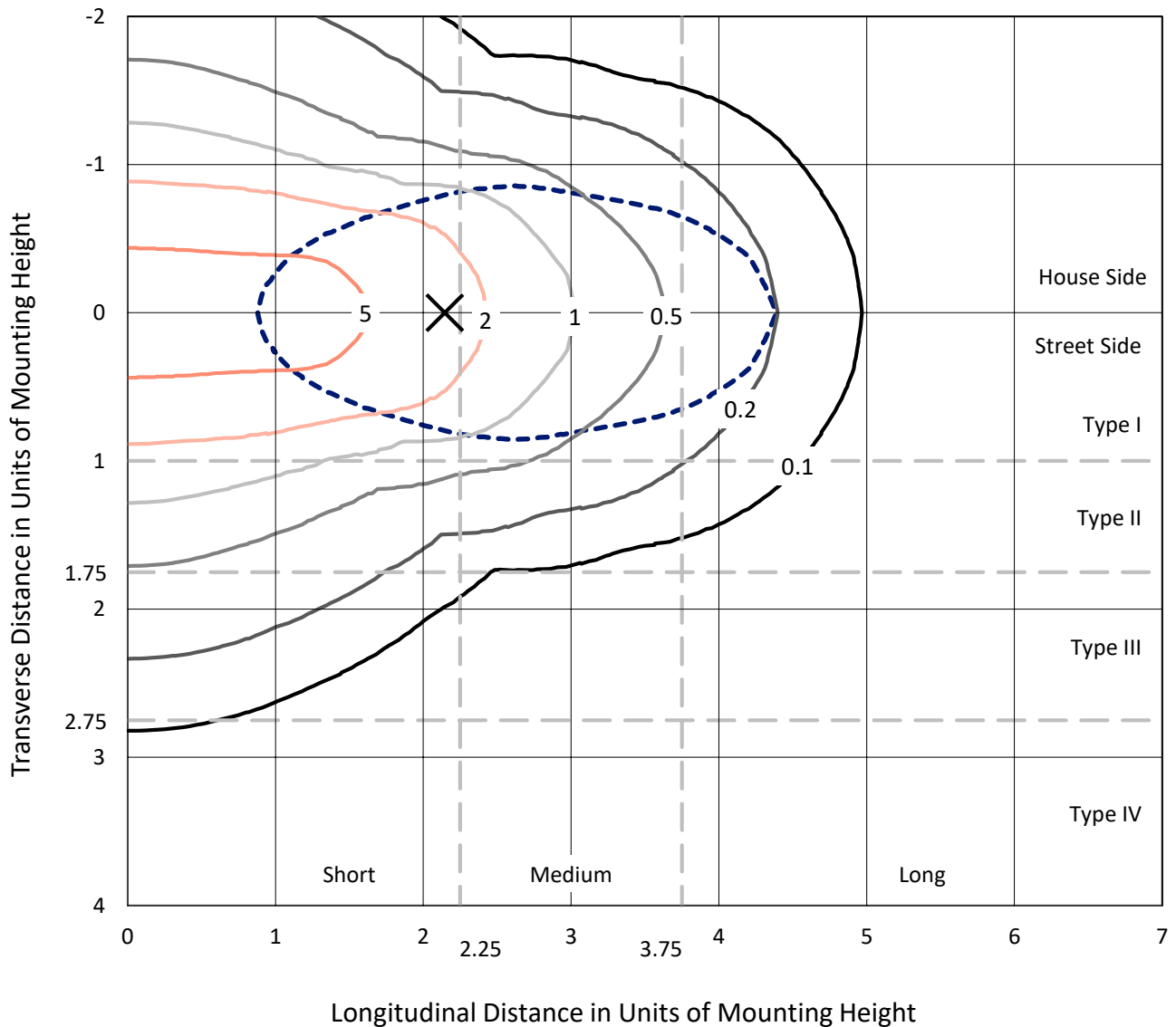
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

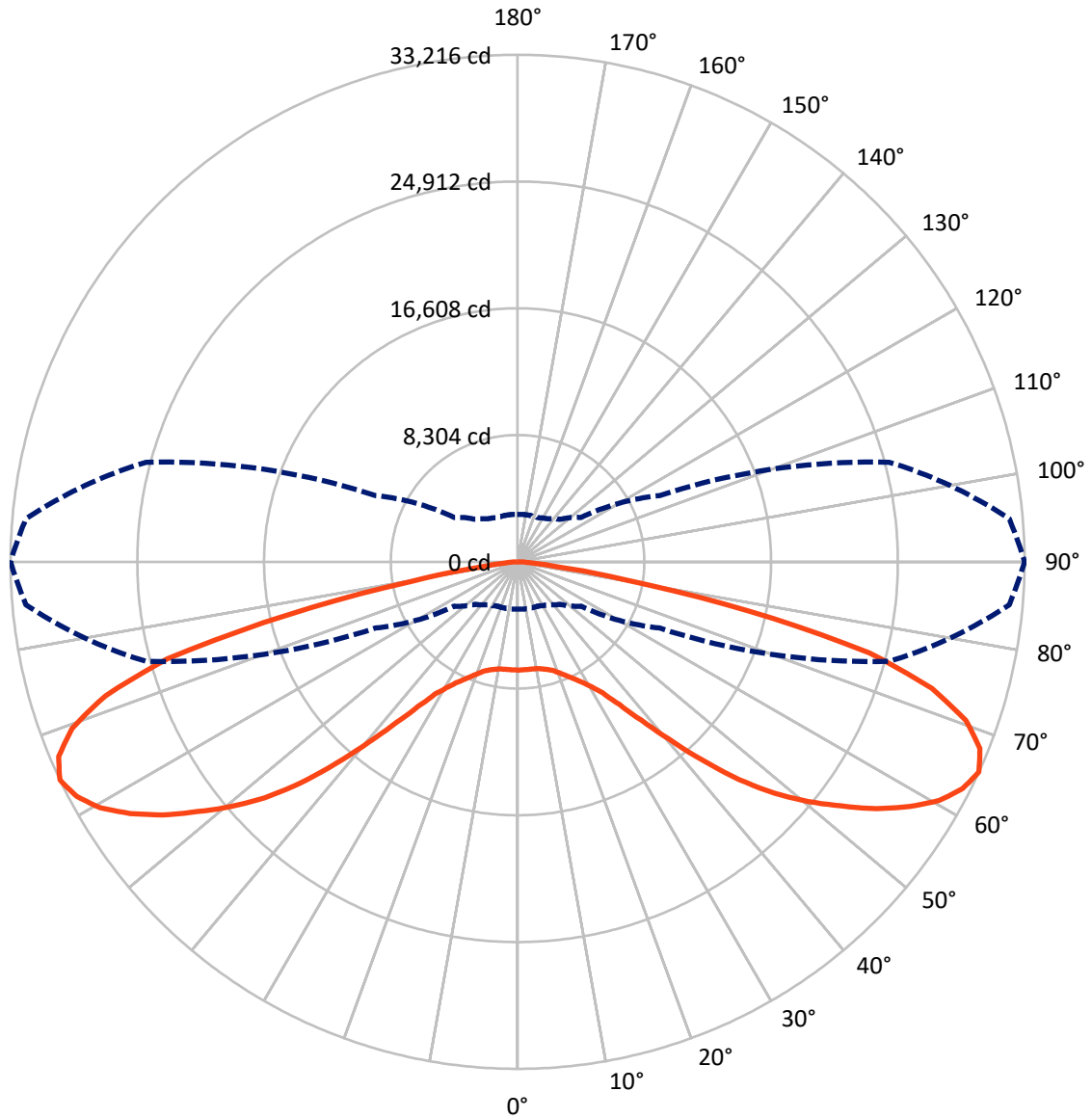
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 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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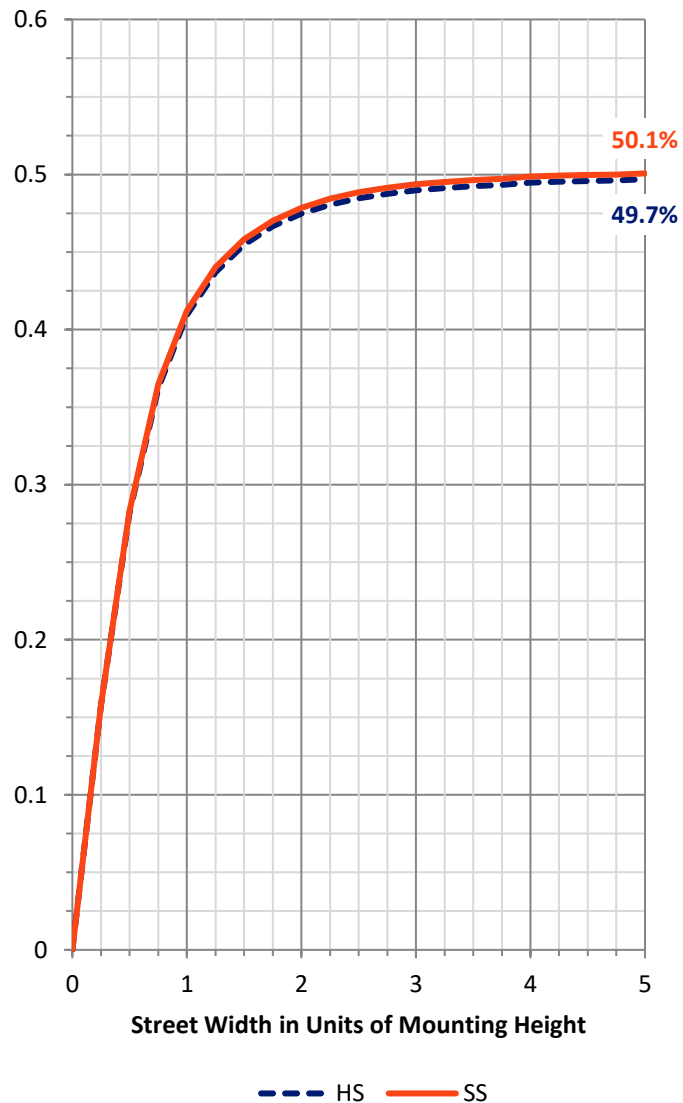
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21535.0	0.0	21535.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21535.0	0.0	21535.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	43070.0	0.0	43070.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	673.4	1.6
10°-20°	1987.1	4.6
20°-30°	3273.2	7.6
30°-40°	4795.6	11.1
40°-50°	7090.9	16.5
50°-60°	9301.4	21.6
60°-70°	9704.0	22.5
70°-80°	5579.3	13.0
80°-90°	665.1	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°	43070.0	100.0
0°-180°	43070.0	100.0

Coefficient of Utilization

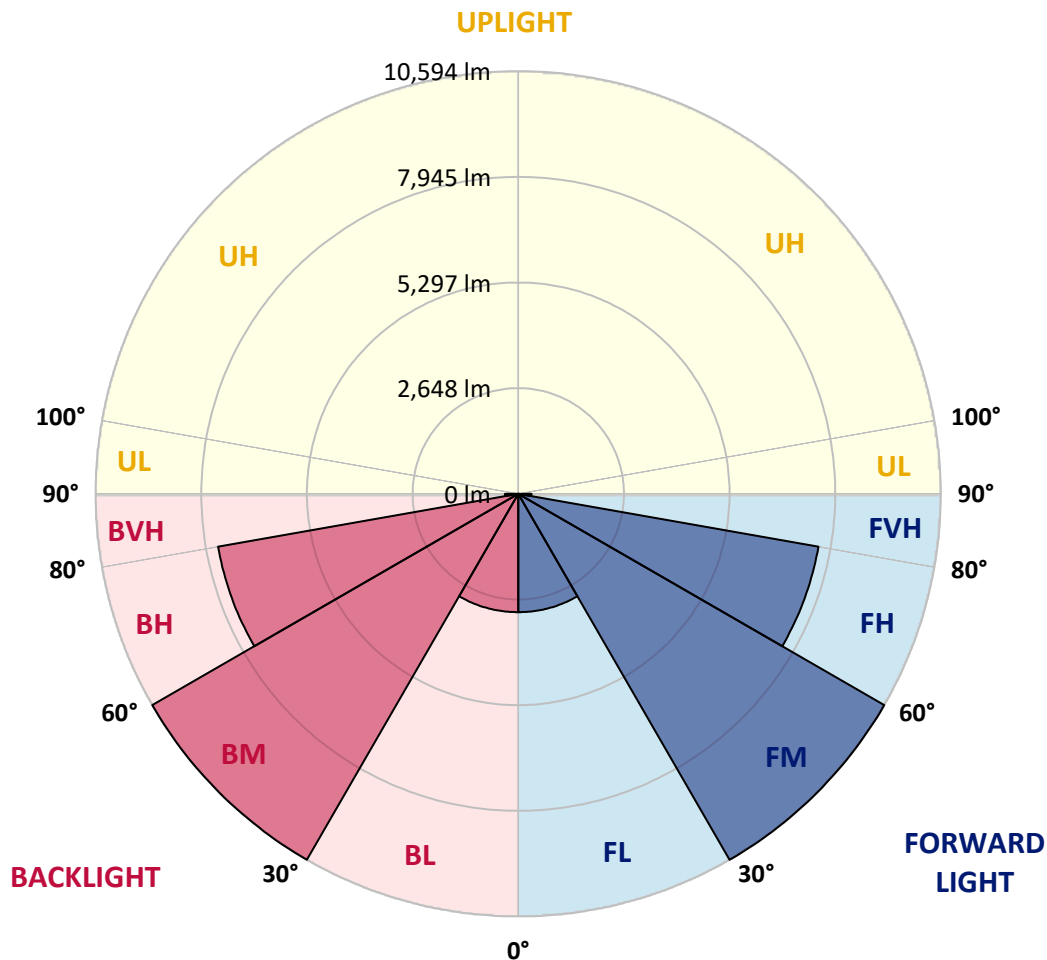


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2966.8	6.9			
FM (30°-60°)	10594.0	24.6			
FH (60°-80°)	7641.6	17.7			G4/12000
FVH (80°-90°)	332.5	0.8			G3/500
BL (0°-30°)	2966.8	6.9	B4/5000		
BM (30°-60°)	10594.0	24.6	B5		
BH (60°-80°)	7641.6	17.7	B5		G5
BVH (80°-90°)	332.5	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°	7095.7	7095.7	7095.7	7095.7	7095.7	7095.7	7095.7	7095.7	7095.7	7095.7	7095.7
2.5°	7094.0	7088.9	7087.2	7084.7	7088.9	7092.3	7100.7	7108.3	7106.6	7104.9	7106.6
5°	7054.4	7056.9	7057.8	7058.6	7062.0	7064.5	7076.3	7088.1	7086.4	7084.7	7093.1
7.5°	6998.8	6998.8	6997.2	6995.5	7002.2	7008.1	7019.9	7031.7	7040.9	7049.4	7062.8
10°	6918.0	6914.7	6913.8	6913.0	6920.6	6927.3	6949.2	6971.1	6989.6	7007.3	7030.0
12.5°	6819.5	6818.7	6820.4	6822.1	6838.1	6854.1	6891.1	6928.1	6965.2	7002.2	7035.0
15°	6702.5	6692.4	6700.8	6708.4	6734.5	6759.8	6831.3	6902.9	6959.3	7014.8	7078.8
17.5°	6524.1	6514.0	6526.6	6538.4	6590.6	6642.8	6743.8	6844.0	6950.0	7056.1	7147.8
20°	6253.8	6253.8	6285.8	6317.8	6406.2	6494.6	6633.5	6771.6	6914.7	7057.8	7190.8
22.5°	5965.9	5957.5	6025.7	6093.9	6200.0	6305.2	6480.3	6655.4	6844.8	7033.4	7216.0
25°	5641.0	5655.3	5741.2	5826.2	5975.2	6123.4	6338.9	6553.5	6791.8	7030.0	7283.4
27.5°	5366.6	5369.1	5472.6	5576.2	5763.1	5949.1	6210.9	6472.7	6763.1	7053.6	7372.6
30°	5082.9	5129.2	5238.6	5347.2	5556.0	5764.7	6081.3	6396.9	6741.3	7085.6	7474.5
32.5°	4864.8	4875.8	4999.5	5122.4	5340.5	5558.5	5926.4	6294.2	6707.6	7120.9	7594.0
35°	4659.4	4677.1	4792.5	4907.8	5135.1	5361.5	5764.7	6167.1	6661.3	7154.6	7723.6
37.5°	4476.8	4498.7	4608.1	4717.5	4936.4	5155.3	5582.9	6010.6	6589.7	7168.9	7865.9
40°	4342.9	4361.4	4454.0	4546.6	4744.5	4941.5	5389.3	5836.3	6489.5	7142.8	7977.9
42.5°	4246.1	4254.5	4329.5	4404.4	4581.2	4757.9	5201.6	5644.4	6359.1	7073.8	8064.6
45°	4114.8	4133.3	4207.4	4280.6	4439.7	4598.0	5003.7	5409.5	6165.4	6920.6	8065.4
47.5°	4017.1	4028.9	4098.8	4167.8	4316.0	4464.1	4828.6	5193.2	5946.6	6699.2	7974.5
50°	3945.6	3939.7	4004.5	4068.5	4193.9	4318.5	4643.4	4967.5	5675.5	6383.5	7747.2
52.5°	3843.7	3850.5	3902.7	3954.8	4063.4	4171.2	4462.5	4752.9	5375.0	5996.2	7378.5
55°	3707.4	3738.5	3782.3	3825.2	3920.3	4015.5	4277.3	4539.1	5074.5	5609.0	6903.7
57.5°	3573.5	3596.2	3633.3	3670.3	3745.2	3819.3	4066.0	4312.6	4757.9	5203.3	6304.3
60°	3464.1	3470.0	3493.5	3516.3	3573.5	3630.7	3834.5	4038.2	4427.1	4815.2	5706.7
62.5°	3322.6	3324.3	3340.3	3356.3	3391.7	3426.2	3586.1	3745.2	4076.9	4408.6	5112.3
65°	3101.2	3114.7	3129.9	3144.2	3167.7	3190.5	3312.5	3434.6	3682.9	3931.3	4498.7
67.5°	2877.3	2865.5	2883.2	2900.9	2904.3	2907.6	3000.2	3092.8	3296.5	3500.3	3956.5
70°	2512.8	2522.1	2520.4	2517.9	2503.6	2488.4	2553.2	2618.0	2725.8	2832.7	3162.7
72.5°	1926.9	1914.3	1882.3	1849.5	1834.3	1819.2	1894.9	1969.8	2049.0	2128.1	2366.3
75°	1177.7	1213.9	1280.4	1346.1	1371.3	1396.6	1392.4	1387.3	1380.6	1373.8	1671.0
77.5°	798.0	817.4	832.6	846.9	883.9	920.1	962.2	1004.3	1003.4	1002.6	1189.5
80°	507.6	492.5	499.2	505.9	527.0	548.0	612.0	675.1	692.8	709.6	838.4
82.5°	318.2	320.7	329.1	336.7	313.2	289.6	339.3	388.1	430.2	471.4	531.2
85°	206.2	234.0	229.8	225.6	197.8	170.0	213.8	257.6	277.8	297.2	319.9
87.5°	66.5	77.4	80.0	81.7	81.7	80.8	90.1	99.3	102.7	105.2	113.6
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°	7095.7	7095.7	7095.7	7095.7	7095.7	7095.7	7095.7	7095.7
2.5°	7107.4	7099.0	7090.6	7088.1	7085.6	7083.9	7082.2	7080.5
5°	7100.7	7099.0	7097.3	7090.6	7083.9	7083.0	7082.2	7084.7
7.5°	7076.3	7076.3	7076.3	7083.9	7091.4	7088.1	7083.9	7088.9
10°	7051.9	7072.1	7092.3	7098.2	7104.1	7108.3	7112.5	7116.7
12.5°	7067.9	7102.4	7136.1	7155.4	7174.8	7184.9	7194.1	7196.7
15°	7142.8	7186.6	7230.3	7256.4	7281.7	7298.5	7315.4	7319.6
17.5°	7239.6	7307.0	7373.5	7411.3	7449.2	7468.6	7487.1	7481.2
20°	7322.9	7415.5	7508.1	7589.0	7669.8	7714.4	7758.2	7763.2
22.5°	7397.9	7553.6	7709.3	7813.7	7917.3	7996.4	8075.5	8083.9
25°	7535.9	7739.6	7943.4	8110.0	8276.7	8349.1	8420.7	8462.8
27.5°	7690.8	7963.6	8236.3	8459.4	8682.5	8792.8	8902.2	8908.1
30°	7862.5	8208.5	8553.7	8853.4	9152.2	9286.9	9420.7	9491.5
32.5°	8066.3	8505.7	8944.3	9338.2	9732.2	9936.8	10141.3	10212.9
35°	8291.9	8861.8	9430.8	9973.8	10515.9	10907.4	11298.8	11487.4
37.5°	8562.9	9288.6	10014.2	10829.9	11645.7	12313.2	12979.9	13170.2
40°	8813.0	9746.5	10679.3	11812.3	12945.4	14004.4	15062.6	15268.8
42.5°	9055.4	10185.1	11314.8	12860.4	14406.0	15823.6	17241.2	17777.4
45°	9209.5	10575.7	11941.1	13979.2	16017.2	17963.5	19908.9	20359.3
47.5°	9249.0	10854.4	12459.7	14984.3	17508.9	19799.5	22089.2	22667.5
50°	9111.0	10999.1	12887.3	16219.2	19550.3	21883.0	24214.8	24689.6
52.5°	8760.8	10952.8	13144.9	17176.4	21207.8	23676.9	26145.9	26576.9
55°	8198.4	10671.7	13144.9	17964.3	22782.9	25343.7	27903.6	28558.6
57.5°	7405.4	10134.6	12863.8	18490.5	24117.1	26898.5	29679.9	30268.3
60°	6598.1	9495.7	12392.4	18780.9	25169.4	28115.8	31062.1	31749.0
62.5°	5815.3	8627.8	11439.4	18476.1	25512.9	28623.4	31733.0	32721.3
65°	5066.0	7663.9	10261.7	17732.8	25203.1	28767.3	32330.7	33216.3
67.5°	4412.8	6858.3	9303.7	16486.9	23670.1	27614.9	31558.8	32662.4
70°	3492.7	5742.9	7993.0	14278.0	20563.0	25182.9	29802.8	31164.8
72.5°	2604.6	4513.0	6420.5	11231.5	16042.5	21355.2	26667.0	28380.9
75°	1967.3	3604.6	5242.0	8877.8	12513.6	17011.4	21509.2	23803.1
77.5°	1376.4	2604.6	3831.9	6544.3	9256.6	11746.7	14236.8	15459.1
80°	966.4	1647.4	2327.6	3632.4	4936.4	6040.9	7144.5	7056.9
82.5°	590.1	876.3	1161.7	1575.9	1990.0	2256.9	2523.8	2512.0
85°	342.6	416.7	489.9	606.9	724.0	856.1	988.3	878.9
87.5°	121.2	121.2	121.2	138.9	156.6	215.5	274.4	289.6
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-CA8-330-727-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)