

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: P510835

Luminaire Tested: **CST-CA8-480-730-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510835
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-CA8-480-730-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 72508 lumens
Efficiency: N/A
Efficacy: 150.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

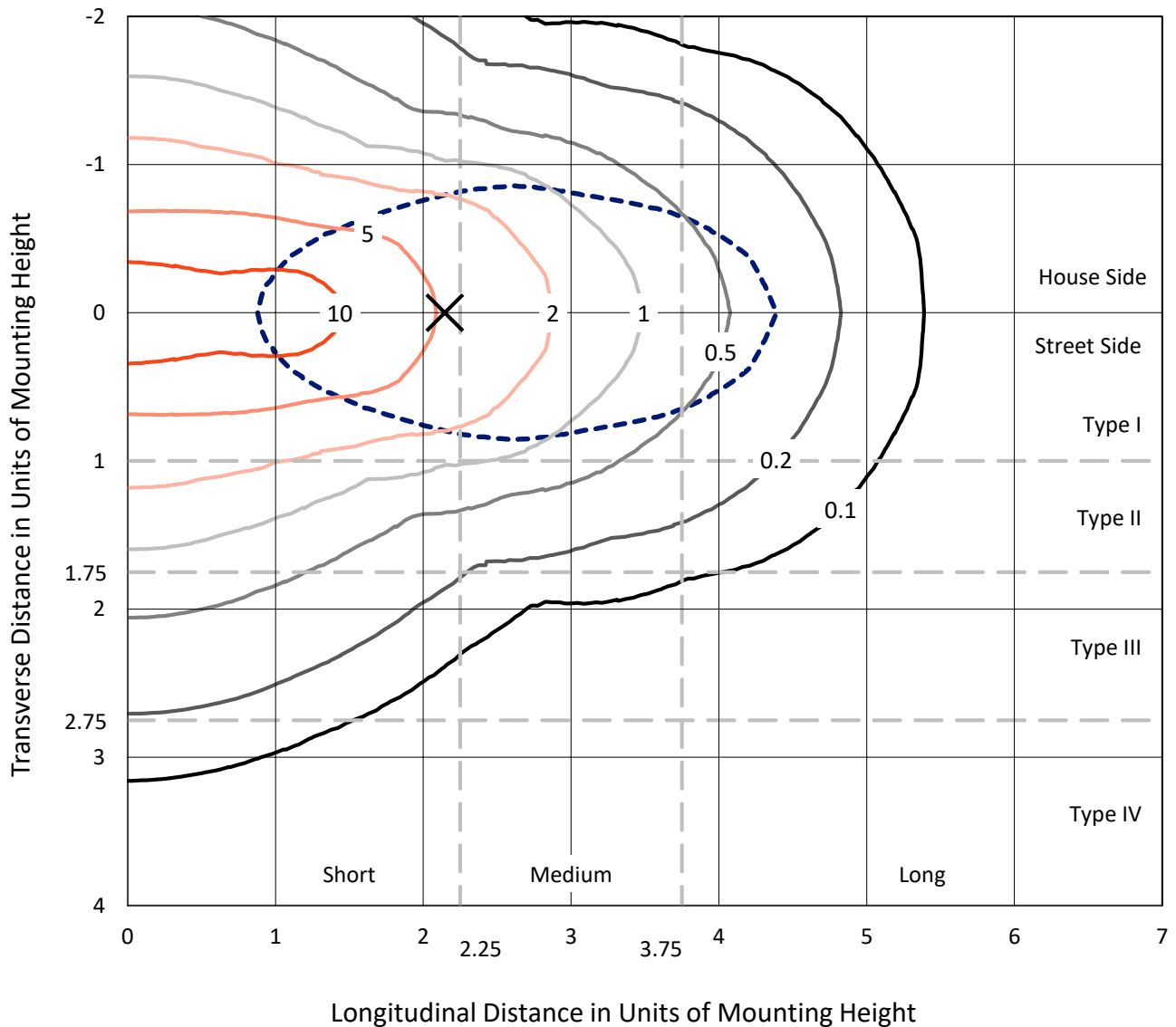
Input Watts (W): 480.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

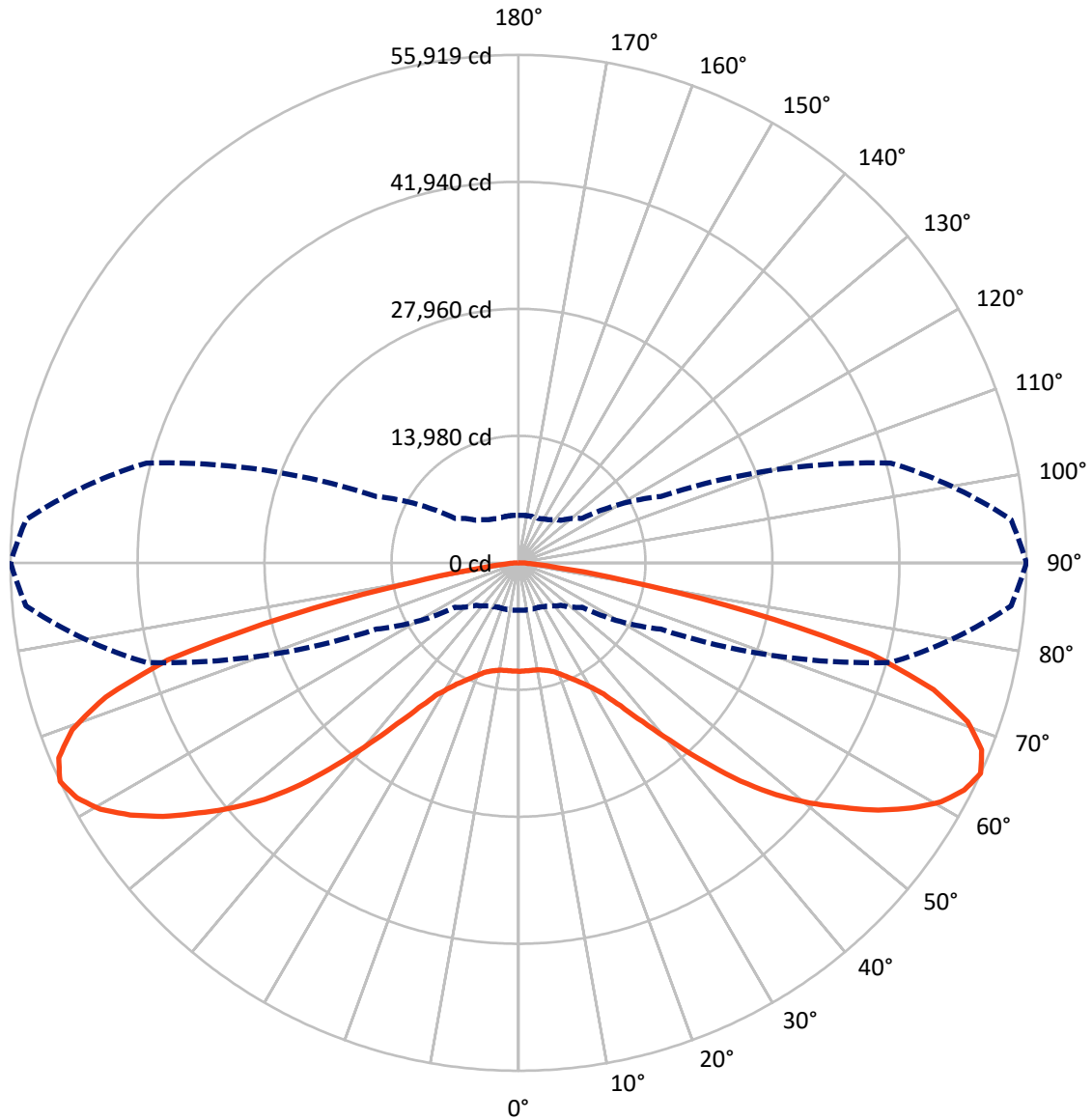
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.5 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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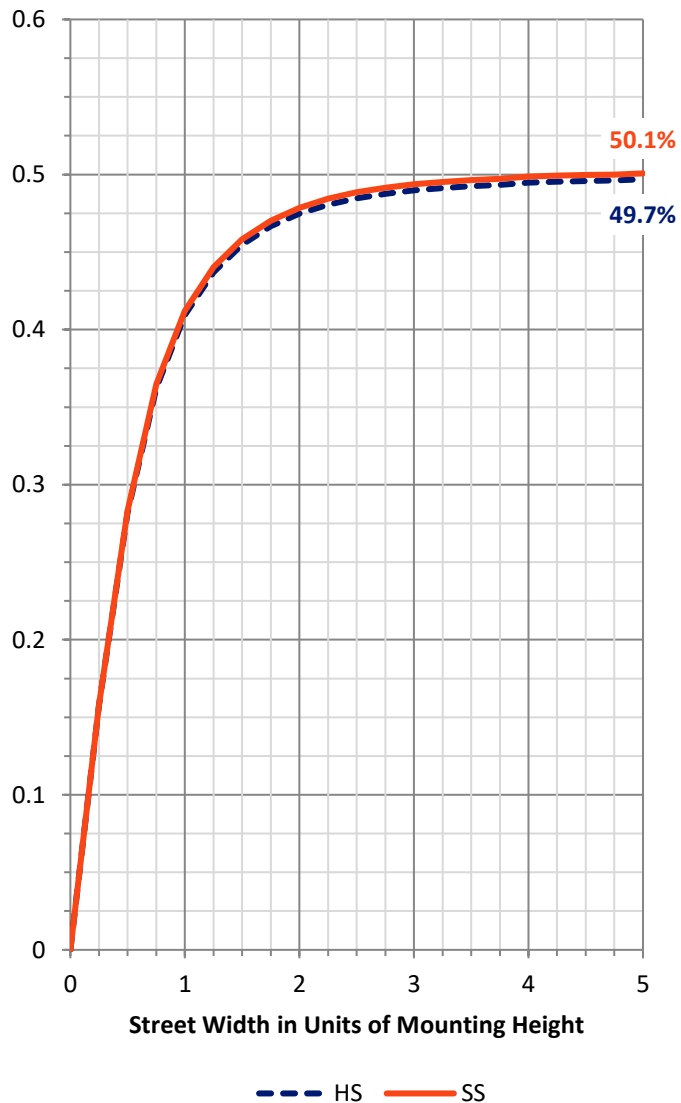
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	36254.0	0.0	36254.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	36254.0	0.0	36254.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	72508.0	0.0	72508.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1133.6	1.6
10°-20°	3345.2	4.6
20°-30°	5510.4	7.6
30°-40°	8073.4	11.1
40°-50°	11937.5	16.5
50°-60°	15658.9	21.6
60°-70°	16336.6	22.5
70°-80°	9392.7	13.0
80°-90°	1119.7	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°	72508.0	100.0
0°-180°	72508.0	100.0

Coefficient of Utilization

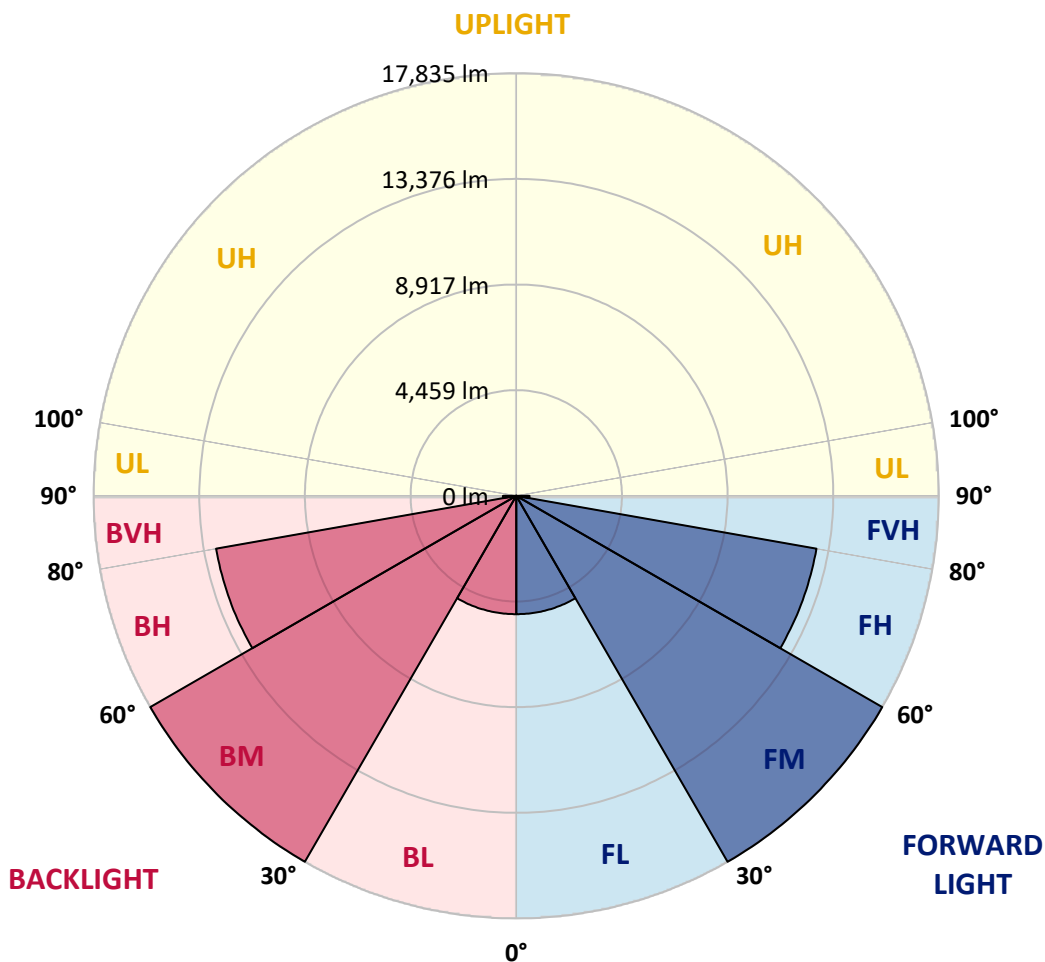


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4994.6	6.9			
FM (30°-60°)	17834.9	24.6			
FH (60°-80°)	12864.6	17.7			G5
FVH (80°-90°)	559.8	0.8			G4/750
BL (0°-30°)	4994.6	6.9	B4/5000		
BM (30°-60°)	17834.9	24.6	B5		
BH (60°-80°)	12864.6	17.7	B5		G5
BVH (80°-90°)	559.8	0.8			G4/750
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°	11945.5	11945.5	11945.5	11945.5	11945.5	11945.5	11945.5	11945.5	11945.5	11945.5	11945.5
2.5°	11942.6	11934.1	11931.3	11927.1	11934.1	11939.8	11954.0	11966.7	11963.9	11961.1	11963.9
5°	11876.0	11880.3	11881.7	11883.1	11888.8	11893.0	11912.9	11932.7	11929.9	11927.1	11941.2
7.5°	11782.5	11782.5	11779.7	11776.8	11788.2	11798.1	11817.9	11837.8	11853.4	11867.5	11890.2
10°	11646.5	11640.8	11639.4	11637.9	11650.7	11662.0	11698.9	11735.7	11766.9	11796.7	11834.9
12.5°	11480.6	11479.2	11482.1	11484.9	11511.8	11538.7	11601.1	11663.5	11725.8	11788.2	11843.4
15°	11283.7	11266.6	11280.8	11293.6	11337.5	11380.0	11500.5	11620.9	11715.9	11809.4	11917.1
17.5°	10983.2	10966.2	10987.5	11007.3	11095.2	11183.0	11353.1	11521.7	11700.3	11878.9	12033.3
20°	10528.3	10528.3	10582.1	10636.0	10784.8	10933.6	11167.4	11399.9	11640.8	11881.7	12105.6
22.5°	10043.6	10029.4	10144.2	10259.0	10437.6	10614.7	10909.5	11204.3	11523.2	11840.6	12148.1
25°	9496.6	9520.7	9665.2	9808.4	10059.2	10308.6	10671.4	11032.8	11433.9	11834.9	12261.5
27.5°	9034.6	9038.8	9213.1	9387.5	9702.1	10015.3	10456.0	10896.8	11385.7	11874.6	12411.7
30°	8557.0	8634.9	8819.2	9002.0	9353.4	9704.9	10237.8	10769.2	11348.8	11928.5	12583.2
32.5°	8189.9	8208.4	8416.7	8623.6	8990.6	9357.7	9977.0	10596.3	11292.2	11988.0	12784.5
35°	7844.1	7873.9	8068.1	8262.2	8644.8	9026.1	9704.9	10382.3	11214.2	12044.7	13002.7
37.5°	7536.6	7573.5	7757.7	7941.9	8310.4	8678.9	9398.8	10118.7	11093.7	12068.8	13242.2
40°	7311.3	7342.5	7498.3	7654.2	7987.3	8318.9	9072.8	9825.4	10925.1	12024.8	13430.7
42.5°	7148.3	7162.5	7288.6	7414.7	7712.3	8009.9	8756.8	9502.2	10705.4	11908.6	13576.7
45°	6927.2	6958.4	7083.1	7206.4	7474.2	7740.7	8423.8	9106.9	10379.5	11650.7	13578.1
47.5°	6762.8	6782.7	6900.3	7016.5	7265.9	7515.3	8129.0	8742.6	10011.0	11278.0	13425.0
50°	6642.4	6632.4	6741.6	6849.3	7060.4	7270.2	7817.2	8362.8	9554.7	10746.5	13042.4
52.5°	6470.9	6482.2	6570.1	6657.9	6840.8	7022.2	7512.5	8001.4	9048.7	10094.6	12421.7
55°	6241.3	6293.7	6367.4	6439.7	6599.8	6760.0	7200.7	7641.5	8542.8	9442.7	11622.4
57.5°	6016.0	6054.2	6116.6	6178.9	6305.1	6429.8	6845.0	7260.3	8009.9	8759.6	10613.3
60°	5831.7	5841.6	5881.3	5919.6	6016.0	6112.3	6455.3	6798.3	7453.0	8106.3	9607.1
62.5°	5593.6	5596.5	5623.4	5650.3	5709.9	5768.0	6037.2	6305.1	6863.4	7421.8	8606.6
65°	5220.9	5243.6	5269.1	5293.2	5332.9	5371.1	5576.6	5782.1	6200.2	6618.3	7573.5
67.5°	4843.9	4824.1	4853.9	4883.6	4889.3	4895.0	5050.9	5206.7	5549.7	5892.7	6660.8
70°	4230.3	4245.9	4243.1	4238.8	4214.7	4189.2	4298.3	4407.5	4588.9	4768.8	5324.4
72.5°	3243.9	3222.7	3168.8	3113.6	3088.1	3062.5	3190.1	3316.2	3449.4	3582.7	3983.7
75°	1982.6	2043.6	2155.5	2266.1	2308.6	2351.1	2344.0	2335.5	2324.2	2312.9	2813.1
77.5°	1343.5	1376.1	1401.6	1425.7	1488.0	1549.0	1619.8	1690.7	1689.3	1687.9	2002.5
80°	854.6	829.1	840.4	851.7	887.2	922.6	1030.3	1136.6	1166.3	1194.7	1411.5
82.5°	535.7	539.9	554.1	566.9	527.2	487.5	571.1	653.3	724.2	793.6	894.2
85°	347.2	394.0	386.9	379.8	333.0	286.3	360.0	433.7	467.7	500.3	538.5
87.5°	112.0	130.4	134.6	137.5	137.5	136.1	151.6	167.2	172.9	177.1	191.3
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°	11945.5	11945.5	11945.5	11945.5	11945.5	11945.5	11945.5	11945.5
2.5°	11965.3	11951.1	11937.0	11932.7	11928.5	11925.6	11922.8	11920.0
5°	11954.0	11951.1	11948.3	11937.0	11925.6	11924.2	11922.8	11927.1
7.5°	11912.9	11912.9	11912.9	11925.6	11938.4	11932.7	11925.6	11934.1
10°	11871.8	11905.8	11939.8	11949.7	11959.6	11966.7	11973.8	11980.9
12.5°	11898.7	11956.8	12013.5	12046.1	12078.7	12095.7	12111.3	12115.5
15°	12024.8	12098.5	12172.2	12216.2	12258.7	12287.0	12315.4	12322.4
17.5°	12187.8	12301.2	12413.1	12476.9	12540.7	12573.3	12604.5	12594.5
20°	12328.1	12484.0	12639.9	12775.9	12912.0	12987.1	13060.8	13069.3
22.5°	12454.2	12716.4	12978.6	13154.3	13328.7	13461.9	13595.1	13609.3
25°	12686.7	13029.6	13372.6	13653.2	13933.8	14055.7	14176.1	14247.0
27.5°	12947.4	13406.6	13865.8	14241.3	14616.9	14802.5	14986.8	14996.7
30°	13236.5	13819.0	14400.0	14904.6	15407.7	15634.4	15859.8	15978.8
32.5°	13579.5	14319.3	15057.6	15720.9	16384.1	16728.5	17072.9	17193.3
35°	13959.3	14918.7	15876.8	16790.8	17703.5	18362.5	19021.5	19338.9
37.5°	14415.6	15637.3	16858.9	18232.1	19605.4	20729.2	21851.6	22171.9
40°	14836.5	16408.2	17978.4	19886.0	21793.5	23576.3	25357.7	25705.0
42.5°	15244.7	17146.6	19048.4	21650.4	24252.3	26638.9	29025.4	29928.2
45°	15504.0	17804.1	20102.8	23533.8	26964.8	30241.4	33516.5	34274.7
47.5°	15570.6	18273.2	20975.8	25225.9	29476.1	33332.3	37187.0	38160.6
50°	15338.2	18517.0	21695.7	27305.0	32912.8	36839.8	40765.4	41564.7
52.5°	14748.7	18439.0	22129.4	28916.3	35703.2	39859.8	44016.4	44742.0
55°	13802.0	17965.7	22129.4	30242.8	38354.8	42665.9	46975.5	48078.1
57.5°	12467.0	17061.5	21656.0	31128.5	40601.0	45283.4	49965.8	50956.4
60°	11107.9	15985.9	20862.4	31617.5	42372.5	47332.7	52292.8	53449.2
62.5°	9789.9	14524.8	19258.2	31104.4	42950.7	48187.2	53422.3	55086.1
65°	8528.6	12902.1	17275.5	29853.1	42429.2	48429.6	54428.5	55919.4
67.5°	7428.9	11545.8	15662.8	27755.6	39848.5	46489.4	53129.0	54986.9
70°	5879.9	9668.1	13456.2	24036.9	34617.7	42395.2	50172.7	52465.7
72.5°	4384.8	7597.5	10808.9	18908.1	27007.4	35951.2	44893.7	47779.1
75°	3312.0	6068.4	8824.8	14945.7	21066.5	28638.5	36210.6	40072.4
77.5°	2317.1	4384.8	6451.0	11017.2	15583.4	19775.4	23967.5	26025.2
80°	1626.9	2773.4	3918.5	6115.2	8310.4	10169.7	12027.7	11880.3
82.5°	993.4	1475.3	1955.7	2653.0	3350.2	3799.5	4248.7	4228.9
85°	576.8	701.5	824.8	1021.8	1218.8	1441.3	1663.8	1479.5
87.5°	204.1	204.1	204.1	233.8	263.6	362.8	462.0	487.5
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-CA8-480-730-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)