

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: P721937

Luminaire Tested: **CST-CA8-430-760-U-T1**

Issue Date: 10/25/2023

Test Information

Test Method: LM-79-08
Report Number: P721937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CST-CA8-430-760-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (8) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67541 lumens
Efficiency: N/A
Efficacy: 155.6 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

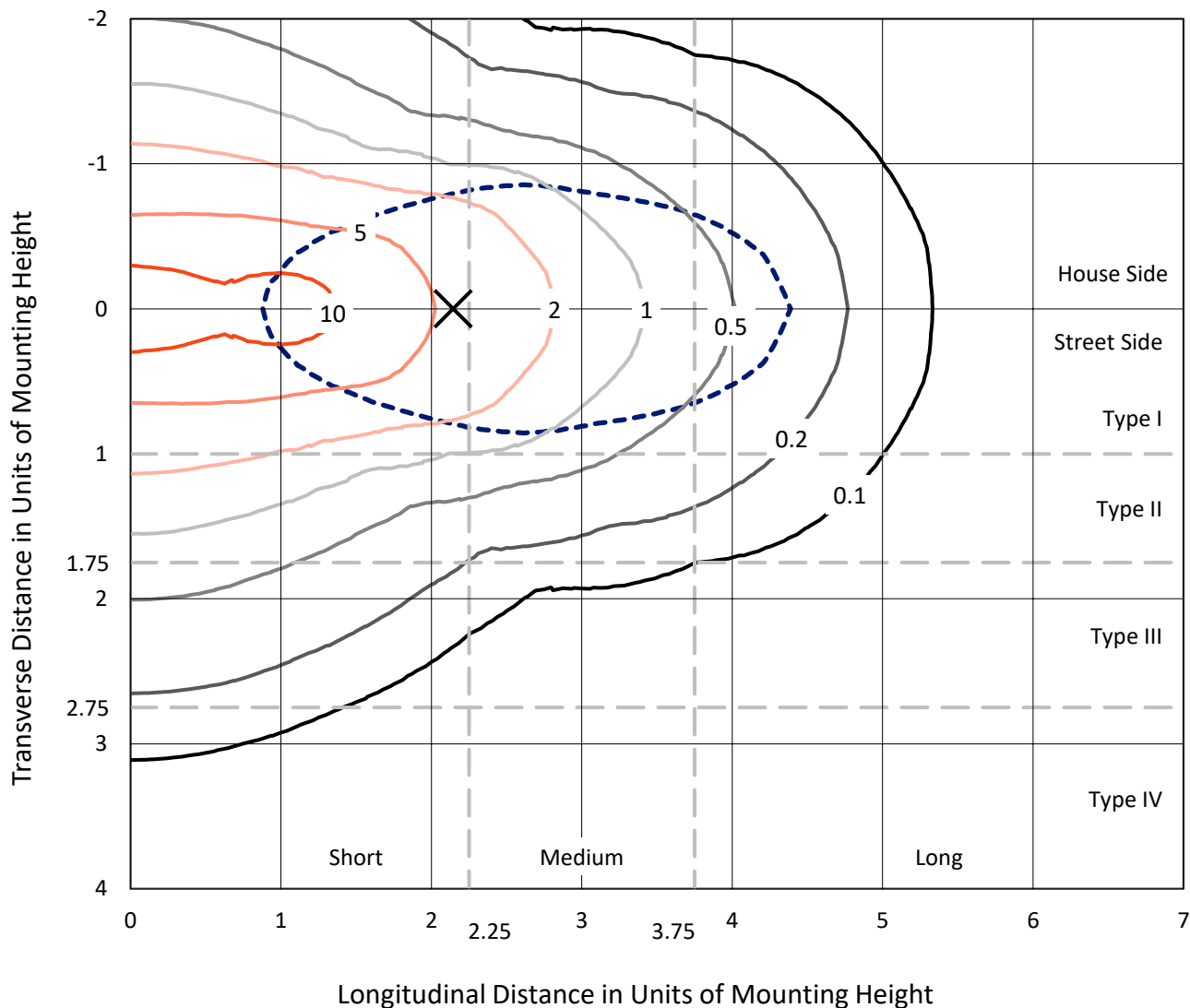
Input Watts (W): 434.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

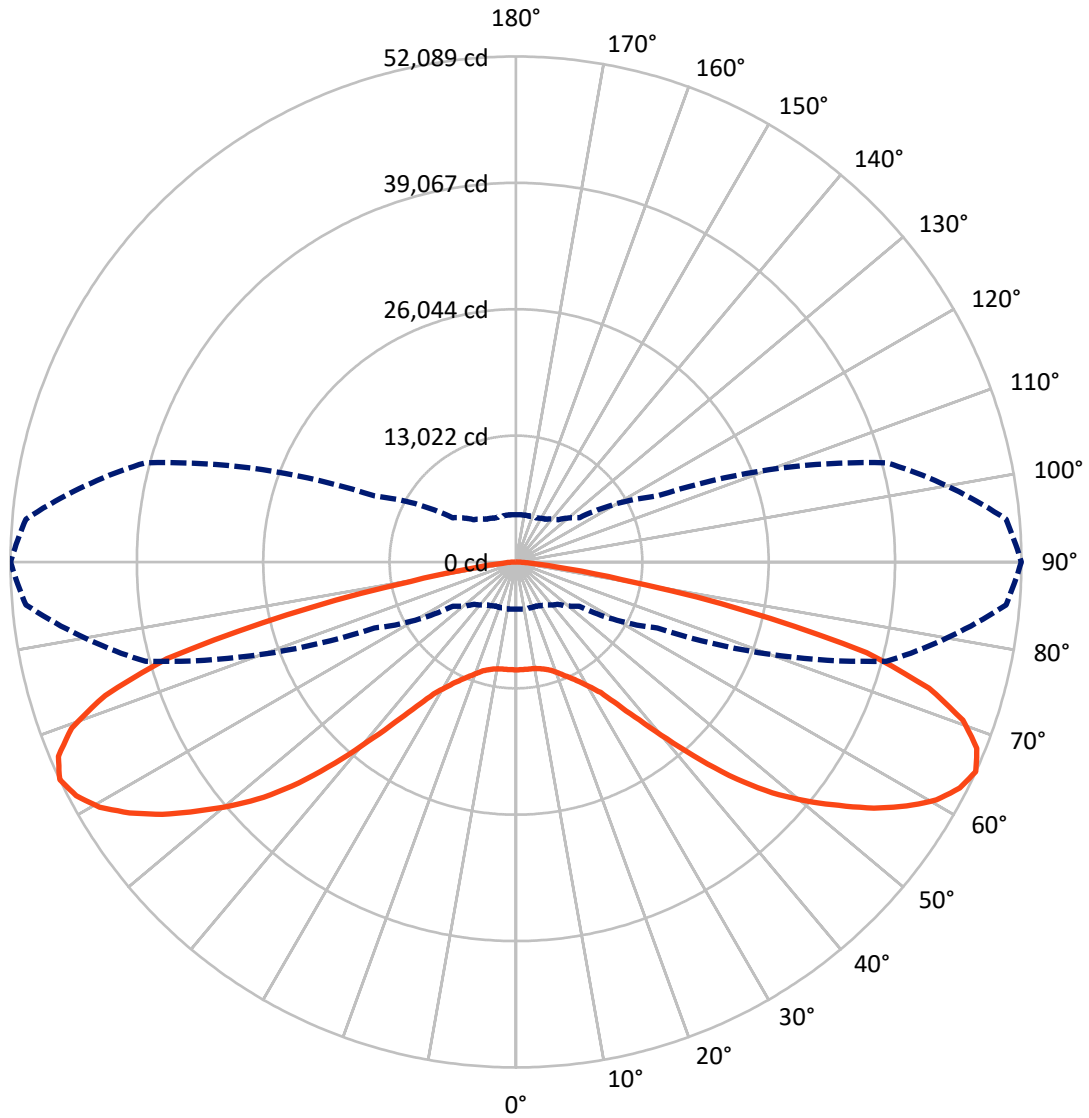
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.5 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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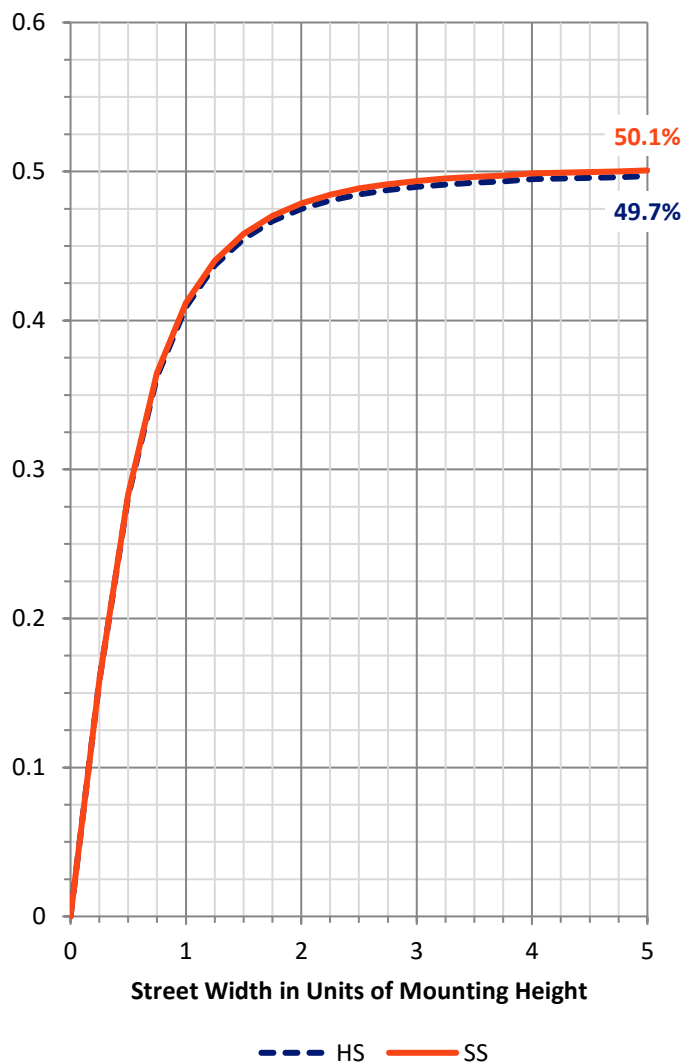
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	33770.5	0.0	33770.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	33770.5	0.0	33770.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	67541.0	0.0	67541.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1056.0	1.6
10°-20°	3116.1	4.6
20°-30°	5132.9	7.6
30°-40°	7520.4	11.1
40°-50°	11119.7	16.5
50°-60°	14586.2	21.6
60°-70°	15217.5	22.5
70°-80°	8749.2	13.0
80°-90°	1043.0	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°	67541.0	100.0
0°-180°	67541.0	100.0

Coefficient of Utilization



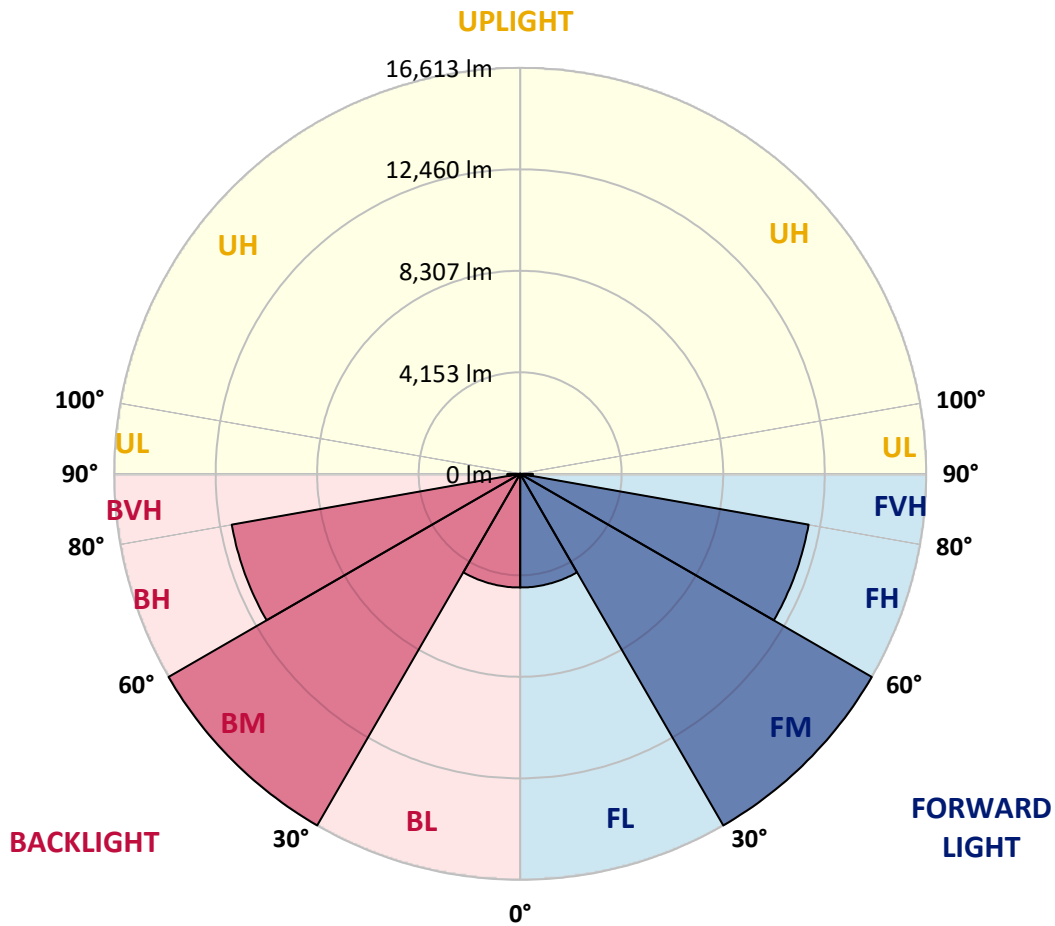
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4652.5	6.9			
FM (30°-60°)	16613.1	24.6			
FH (60°-80°)	11983.4	17.7			G4/12000
FVH (80°-90°)	521.5	0.8			G4/750
BL (0°-30°)	4652.5	6.9	B4/5000		
BM (30°-60°)	16613.1	24.6	B5		
BH (60°-80°)	11983.4	17.7	B5		G5
BVH (80°-90°)	521.5	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°	11127.2	11127.2	11127.2	11127.2	11127.2	11127.2	11127.2	11127.2	11127.2	11127.2	11127.2
2.5°	11124.5	11116.6	11114.0	11110.0	11116.6	11121.9	11135.1	11147.0	11144.3	11141.7	11144.3
5°	11062.5	11066.5	11067.8	11069.1	11074.4	11078.3	11096.8	11115.3	11112.7	11110.0	11123.2
7.5°	10975.4	10975.4	10972.7	10970.1	10980.6	10989.9	11008.4	11026.9	11041.4	11054.6	11075.7
10°	10848.6	10843.4	10842.0	10840.7	10852.6	10863.2	10897.5	10931.8	10960.8	10988.6	11024.2
12.5°	10694.2	10692.9	10695.5	10698.1	10723.2	10748.3	10806.4	10864.5	10922.6	10980.6	11032.1
15°	10510.7	10494.8	10508.0	10519.9	10560.9	10600.5	10712.7	10824.9	10913.3	11000.4	11100.8
17.5°	10230.8	10215.0	10234.8	10253.3	10335.1	10417.0	10575.4	10732.5	10898.8	11065.1	11209.0
20°	9807.1	9807.1	9857.2	9907.4	10046.0	10184.6	10402.4	10618.9	10843.4	11067.8	11276.4
22.5°	9355.6	9342.4	9449.3	9556.3	9722.6	9887.6	10162.2	10436.8	10733.8	11029.5	11316.0
25°	8846.0	8868.5	9003.1	9136.5	9370.1	9602.5	9940.4	10277.0	10650.6	11024.2	11421.6
27.5°	8415.7	8419.6	8582.0	8744.4	9037.5	9329.2	9739.7	10150.3	10605.7	11061.2	11561.5
30°	7970.8	8043.4	8215.0	8385.3	8712.7	9040.1	9536.5	10031.5	10571.4	11111.3	11721.2
32.5°	7628.9	7646.1	7840.1	8032.8	8374.8	8716.7	9293.6	9870.4	10518.6	11166.8	11908.7
35°	7306.8	7334.5	7515.4	7696.2	8052.7	8407.8	9040.1	9671.1	10446.0	11219.6	12112.0
37.5°	7020.3	7054.7	7226.3	7397.9	7741.1	8084.3	8754.9	9425.6	10333.8	11242.0	12335.1
40°	6810.4	6839.5	6984.7	7129.9	7440.1	7749.0	8451.3	9152.3	10176.7	11201.1	12510.7
42.5°	6658.6	6671.8	6789.3	6906.8	7184.0	7461.2	8156.9	8851.3	9972.1	11092.9	12646.6
45°	6452.7	6481.7	6597.9	6712.7	6962.2	7210.4	7846.7	8483.0	9668.5	10852.6	12647.9
47.5°	6299.5	6318.0	6427.6	6535.8	6768.2	7000.5	7572.1	8143.7	9325.2	10505.4	12505.4
50°	6187.3	6178.1	6279.7	6380.1	6576.8	6772.1	7281.7	7789.9	8900.2	10010.4	12148.9
52.5°	6027.6	6038.2	6120.0	6201.9	6372.2	6541.1	6997.9	7453.3	8428.9	9403.1	11570.7
55°	5813.7	5862.6	5931.2	5998.6	6147.7	6296.9	6707.5	7118.0	7957.6	8795.9	10826.2
57.5°	5603.9	5639.5	5697.6	5755.7	5873.2	5989.3	6376.1	6762.9	7461.2	8159.6	9886.3
60°	5432.2	5441.5	5478.4	5514.1	5603.9	5693.6	6013.1	6332.6	6942.4	7551.0	8949.0
62.5°	5210.5	5213.1	5238.2	5263.3	5318.7	5372.8	5623.7	5873.2	6393.3	6913.4	8017.0
65°	4863.3	4884.4	4908.2	4930.6	4967.6	5003.2	5194.6	5386.0	5775.5	6164.9	7054.7
67.5°	4512.1	4493.6	4521.4	4549.1	4554.4	4559.6	4704.9	4850.1	5169.5	5489.0	6204.5
70°	3940.5	3955.0	3952.4	3948.4	3926.0	3902.2	4003.9	4105.5	4274.5	4442.2	4959.6
72.5°	3021.7	3001.9	2951.8	2900.3	2876.5	2852.8	2971.6	3089.0	3213.1	3337.2	3710.8
75°	1846.8	1903.6	2007.9	2110.9	2150.5	2190.1	2183.5	2175.5	2165.0	2154.4	2620.4
77.5°	1251.5	1281.8	1305.6	1328.0	1386.1	1442.9	1508.9	1574.9	1573.6	1572.2	1865.3
80°	796.0	772.3	782.8	793.4	826.4	859.4	959.7	1058.7	1086.4	1112.8	1314.8
82.5°	499.0	503.0	516.2	528.0	491.1	454.1	532.0	608.6	674.6	739.3	833.0
85°	323.4	367.0	360.4	353.8	310.2	266.7	335.3	404.0	435.6	466.0	501.6
87.5°	104.3	121.4	125.4	128.1	128.1	126.7	141.3	155.8	161.1	165.0	178.2
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°	11127.2	11127.2	11127.2	11127.2	11127.2	11127.2	11127.2	11127.2
2.5°	11145.7	11132.5	11119.3	11115.3	11111.3	11108.7	11106.1	11103.4
5°	11135.1	11132.5	11129.8	11119.3	11108.7	11107.4	11106.1	11110.0
7.5°	11096.8	11096.8	11096.8	11108.7	11120.6	11115.3	11108.7	11116.6
10°	11058.5	11090.2	11121.9	11131.1	11140.4	11147.0	11153.6	11160.2
12.5°	11083.6	11137.7	11190.5	11220.9	11251.3	11267.1	11281.6	11285.6
15°	11201.1	11269.8	11338.4	11379.3	11418.9	11445.3	11471.7	11478.3
17.5°	11352.9	11458.5	11562.8	11622.2	11681.6	11712.0	11741.0	11731.8
20°	11483.6	11628.8	11774.0	11900.8	12027.5	12097.5	12166.1	12174.0
22.5°	11601.1	11845.3	12089.5	12253.2	12415.6	12539.7	12663.8	12677.0
25°	11817.6	12137.1	12456.5	12717.9	12979.3	13092.8	13205.0	13271.0
27.5°	12060.5	12488.2	12915.9	13265.8	13615.6	13788.5	13960.1	13969.4
30°	12329.8	12872.4	13413.6	13883.6	14352.2	14563.4	14773.3	14884.2
32.5°	12649.3	13338.4	14026.1	14643.9	15261.8	15582.5	15903.3	16015.5
35°	13003.1	13896.8	14789.2	15640.6	16490.8	17104.6	17718.5	18014.2
37.5°	13428.1	14566.1	15704.0	16983.2	18262.4	19309.2	20354.7	20653.1
40°	13820.2	15284.2	16746.9	18523.7	20300.6	21961.3	23620.7	23944.1
42.5°	14200.4	15972.0	17743.6	20167.3	22591.0	24814.0	27037.1	27878.0
45°	14442.0	16584.5	18725.7	21921.7	25117.7	28169.8	31220.5	31926.8
47.5°	14504.0	17021.5	19538.9	23497.9	27456.9	31048.9	34639.6	35546.5
50°	14287.5	17248.5	20209.5	25434.5	30658.2	34316.2	37972.9	38717.4
52.5°	13738.4	17175.9	20613.5	26935.5	33257.4	37129.3	41001.2	41677.1
55°	12856.5	16735.0	20613.5	28171.1	35727.4	39743.1	43757.6	44784.6
57.5°	11613.0	15892.8	20172.6	28996.1	37819.7	42181.4	46543.0	47465.8
60°	10347.0	14890.8	19433.3	29451.6	39469.9	44090.2	48710.6	49787.8
62.5°	9119.3	13529.8	17938.9	28973.7	40008.5	44886.3	49762.7	51312.5
65°	7944.4	12018.3	16092.1	27808.0	39522.7	45112.0	50700.0	52088.8
67.5°	6920.0	10754.9	14589.8	25854.3	37118.8	43304.8	49489.5	51220.1
70°	5477.1	9005.8	12534.4	22390.3	32246.2	39491.0	46735.7	48871.7
72.5°	4084.4	7077.1	10068.5	17612.9	25157.3	33488.5	41818.3	44506.1
75°	3085.1	5652.7	8220.3	13921.8	19623.4	26676.7	33730.0	37327.3
77.5°	2158.4	4084.4	6009.1	10262.5	14515.9	18420.8	22325.6	24242.4
80°	1515.5	2583.4	3650.1	5696.3	7741.1	9473.1	11203.7	11066.5
82.5°	925.4	1374.2	1821.7	2471.2	3120.7	3539.2	3957.7	3939.2
85°	537.3	653.5	768.3	951.8	1135.3	1342.5	1549.8	1378.2
87.5°	190.1	190.1	190.1	217.8	245.5	337.9	430.4	454.1
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-CA8-430-760-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)