

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: P721877

Luminaire Tested: **CST-CA8-400-760-U-T1**

Issue Date: 10/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P721877  
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-CA8-400-760-U-T1  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (8) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

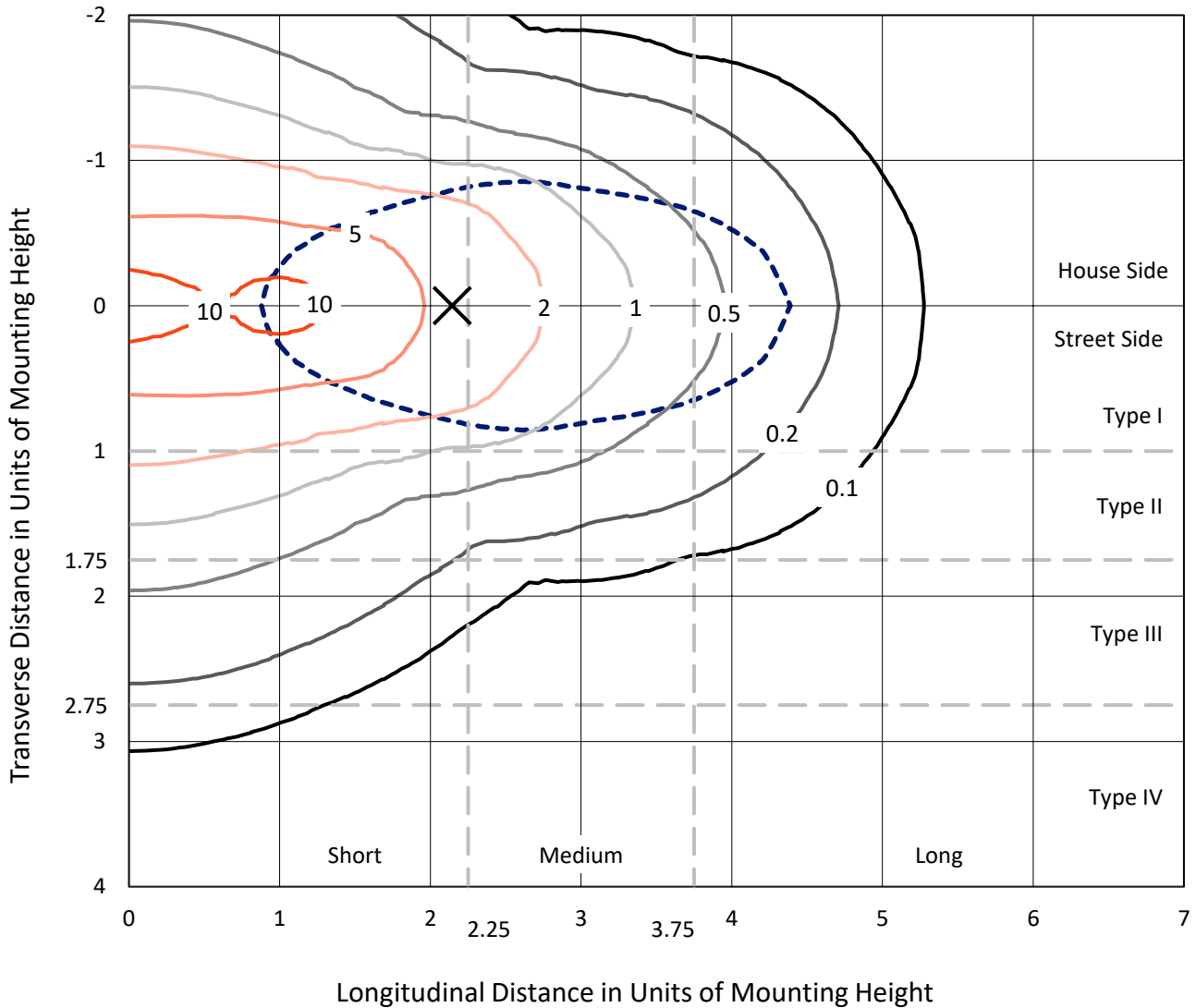
Lumens per Lamp: N/A  
Luminaire Lumens: 62909 lumens  
Efficiency: N/A  
Efficacy: 157.0 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 400.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage 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: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

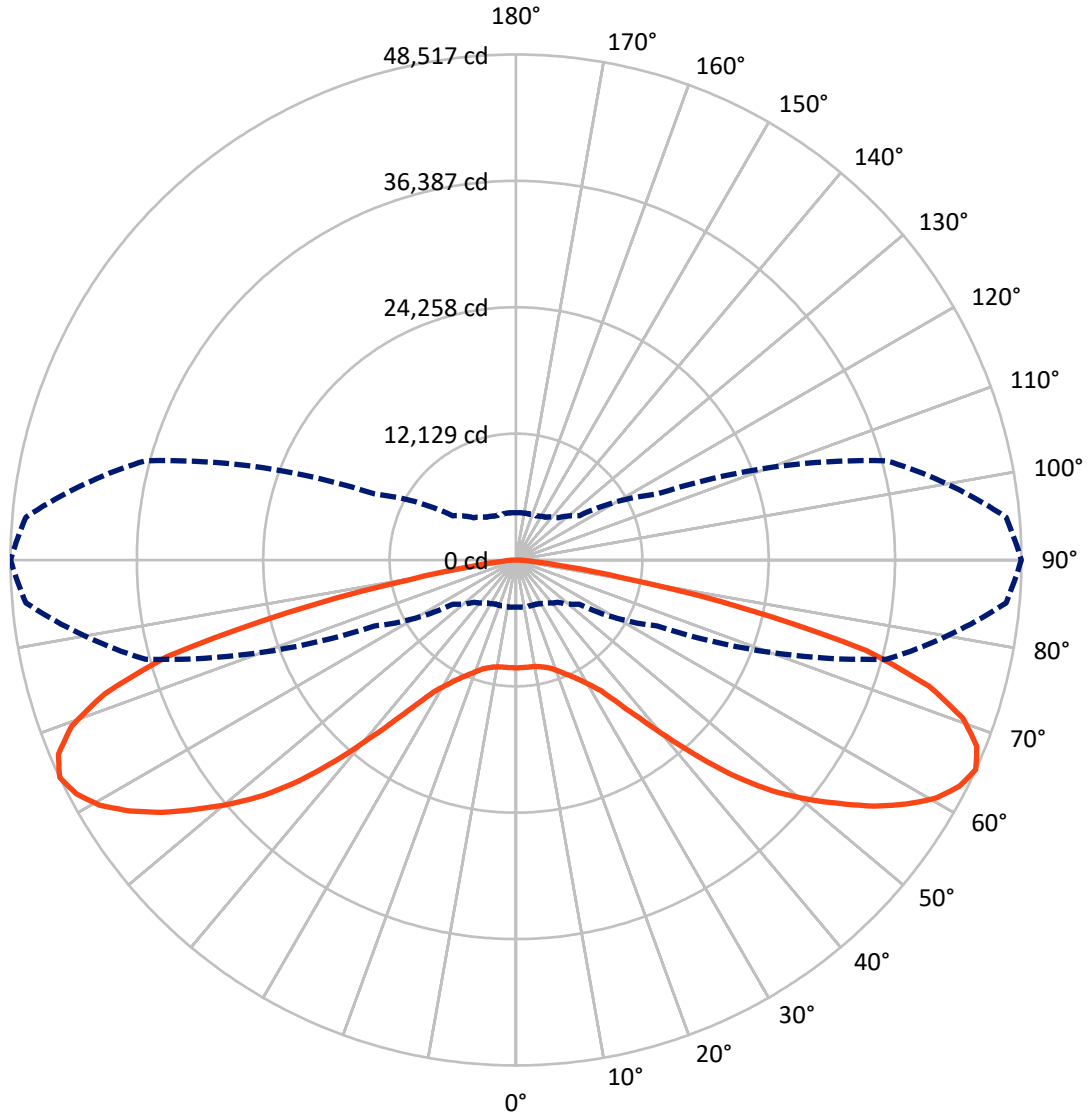
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.7 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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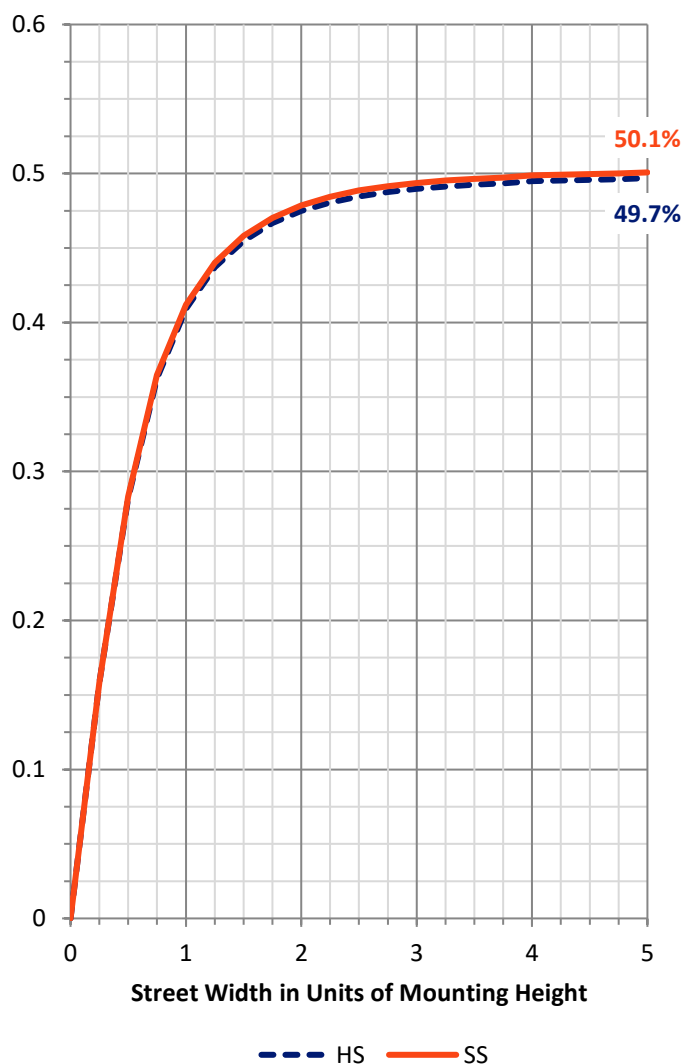
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	31454.5	0.0	31454.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	31454.5	0.0	31454.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	62909.0	0.0	62909.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	983.5	1.6
10°-20°	2902.4	4.6
20°-30°	4780.9	7.6
30°-40°	7004.6	11.1
40°-50°	10357.1	16.5
50°-60°	13585.9	21.6
60°-70°	14173.9	22.5
70°-80°	8149.2	13.0
80°-90°	971.5	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°	62909.0	100.0
0°-180°	62909.0	100.0

**Coefficient of Utilization**



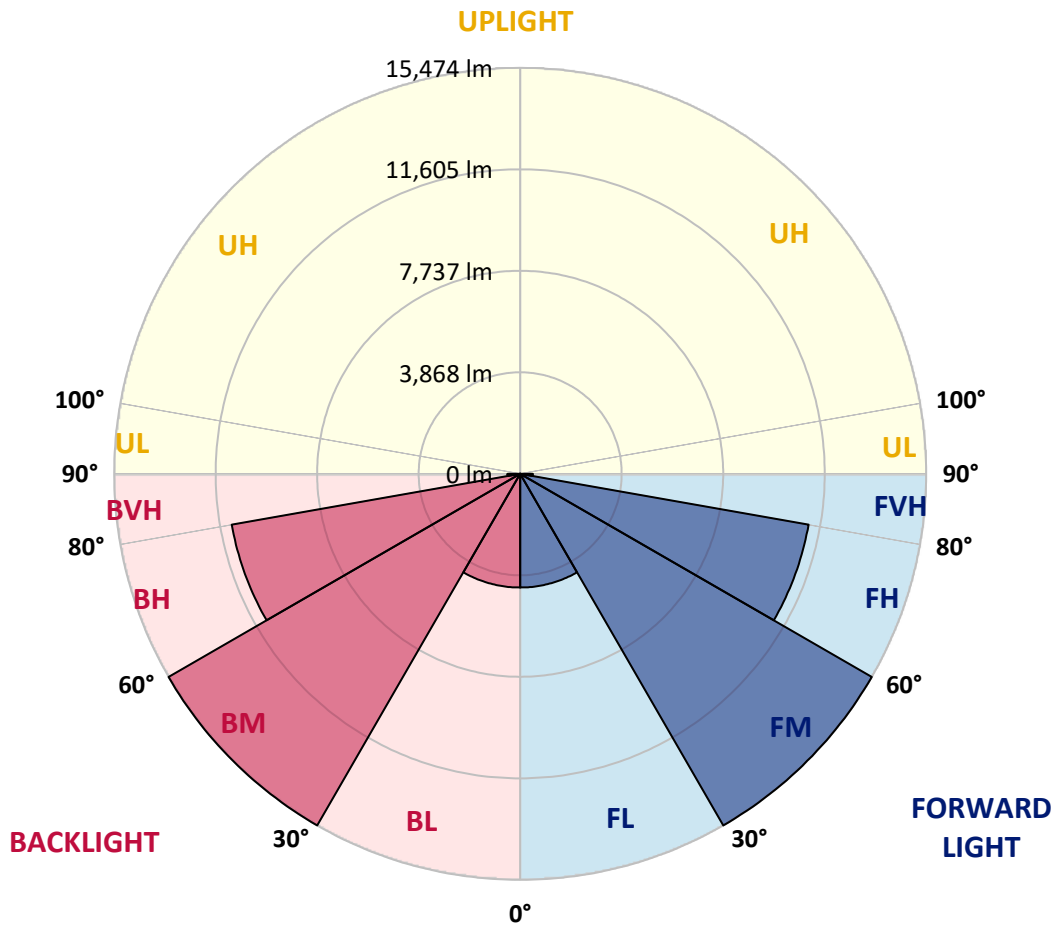
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4333.4	6.9			
FM (30°-60°)	15473.8	24.6			
FH (60°-80°)	11161.6	17.7			G4/12000
FVH (80°-90°)	485.7	0.8			G3/500
BL (0°-30°)	4333.4	6.9	B4/5000		
BM (30°-60°)	15473.8	24.6	B5		
BH (60°-80°)	11161.6	17.7	B5		G5
BVH (80°-90°)	485.7	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°	10364.1	10364.1	10364.1	10364.1	10364.1	10364.1	10364.1	10364.1	10364.1	10364.1	10364.1
2.5°	10361.6	10354.2	10351.8	10348.1	10354.2	10359.2	10371.4	10382.5	10380.1	10377.6	10380.1
5°	10303.8	10307.5	10308.7	10310.0	10314.9	10318.6	10335.8	10353.0	10350.5	10348.1	10360.4
7.5°	10222.7	10222.7	10220.2	10217.8	10227.6	10236.2	10253.4	10270.6	10284.1	10296.4	10316.1
10°	10104.6	10099.7	10098.5	10097.3	10108.3	10118.2	10150.1	10182.1	10209.1	10235.0	10268.2
12.5°	9960.8	9959.5	9962.0	9964.5	9987.8	10011.2	10065.3	10119.4	10173.5	10227.6	10275.5
15°	9789.9	9775.1	9787.4	9798.5	9836.6	9873.5	9978.0	10082.5	10164.9	10246.0	10339.5
17.5°	9529.2	9514.4	9532.9	9550.1	9626.3	9702.6	9850.1	9996.4	10151.4	10306.3	10440.3
20°	9134.5	9134.5	9181.2	9227.9	9357.1	9486.2	9689.0	9890.7	10099.7	10308.7	10503.0
22.5°	8714.0	8701.7	8801.3	8900.9	9055.8	9209.5	9465.3	9721.0	9997.7	10273.1	10539.9
25°	8239.4	8260.3	8385.7	8509.9	8727.5	8943.9	9258.7	9572.2	9920.2	10268.2	10638.3
27.5°	7838.5	7842.2	7993.5	8144.7	8417.7	8689.4	9071.8	9454.2	9878.4	10302.6	10768.6
30°	7424.2	7491.8	7651.6	7810.2	8115.2	8420.1	8882.4	9343.5	9846.4	10349.3	10917.4
32.5°	7105.7	7121.7	7302.4	7482.0	7800.4	8118.9	8656.2	9193.5	9797.2	10401.0	11092.0
35°	6805.7	6831.5	7000.0	7168.4	7500.4	7831.2	8420.1	9007.9	9729.6	10450.1	11281.3
37.5°	6538.9	6570.8	6730.7	6890.5	7210.2	7529.9	8154.5	8779.2	9625.1	10471.0	11489.1
40°	6343.4	6370.4	6505.7	6640.9	6929.9	7217.6	7871.7	8524.6	9478.8	10432.9	11652.7
42.5°	6202.0	6214.3	6323.7	6433.1	6691.3	6949.5	7597.5	8244.3	9288.2	10332.1	11779.3
45°	6010.2	6037.2	6145.4	6252.4	6484.8	6715.9	7308.6	7901.2	9005.4	10108.3	11780.5
47.5°	5867.5	5884.7	5986.8	6087.6	6304.0	6520.4	7052.8	7585.2	8685.7	9784.9	11647.7
50°	5763.0	5754.4	5849.1	5942.5	6125.7	6307.7	6782.3	7255.7	8289.8	9323.9	11315.8
52.5°	5614.2	5624.1	5700.3	5776.5	5935.1	6092.5	6518.0	6942.2	7850.8	8758.2	10777.2
55°	5415.0	5460.5	5524.5	5587.2	5726.1	5865.1	6247.5	6629.9	7411.9	8192.6	10083.7
57.5°	5219.5	5252.7	5306.8	5360.9	5470.4	5578.6	5938.8	6299.1	6949.5	7600.0	9208.3
60°	5059.7	5068.3	5102.7	5135.9	5219.5	5303.1	5600.7	5898.3	6466.3	7033.2	8335.3
62.5°	4853.1	4855.6	4878.9	4902.3	4953.9	5004.4	5238.0	5470.4	5954.8	6439.3	7467.2
65°	4529.7	4549.4	4571.6	4592.5	4626.9	4660.1	4838.4	5016.7	5379.4	5742.1	6570.8
67.5°	4202.7	4185.5	4211.3	4237.1	4242.0	4246.9	4382.2	4517.5	4815.0	5112.6	5779.0
70°	3670.3	3683.8	3681.3	3677.7	3656.8	3634.6	3729.3	3824.0	3981.4	4137.5	4619.5
72.5°	2814.5	2796.0	2749.3	2701.4	2679.2	2657.1	2767.8	2877.2	2992.8	3108.4	3456.3
75°	1720.2	1773.0	1870.2	1966.1	2003.0	2039.9	2033.7	2026.3	2016.5	2006.7	2440.7
77.5°	1165.6	1193.9	1216.0	1237.0	1291.1	1343.9	1405.4	1466.9	1465.7	1464.4	1737.4
80°	741.4	719.3	729.1	739.0	769.7	800.5	893.9	986.1	1011.9	1036.5	1224.7
82.5°	464.8	468.5	480.8	491.8	457.4	423.0	495.5	566.8	628.3	688.6	775.9
85°	301.2	341.8	335.7	329.5	288.9	248.4	312.3	376.2	405.8	434.0	467.2
87.5°	97.1	113.1	116.8	119.3	119.3	118.0	131.6	145.1	150.0	153.7	166.0
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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 CATALOG NUMBER: CST-CA8-400-760-U-T1

**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°	10364.1	10364.1	10364.1	10364.1	10364.1	10364.1	10364.1	10364.1
2.5°	10381.3	10369.0	10356.7	10353.0	10349.3	10346.9	10344.4	10341.9
5°	10371.4	10369.0	10366.5	10356.7	10346.9	10345.6	10344.4	10348.1
7.5°	10335.8	10335.8	10335.8	10346.9	10357.9	10353.0	10346.9	10354.2
10°	10300.1	10329.6	10359.2	10367.8	10376.4	10382.5	10388.7	10394.8
12.5°	10323.5	10373.9	10423.1	10451.4	10479.7	10494.4	10507.9	10511.6
15°	10432.9	10496.9	10560.8	10598.9	10635.8	10660.4	10685.0	10691.1
17.5°	10574.3	10672.7	10769.8	10825.2	10880.5	10908.8	10935.8	10927.2
20°	10696.1	10831.3	10966.6	11084.6	11202.6	11267.8	11331.7	11339.1
22.5°	10805.5	11033.0	11260.4	11412.9	11564.1	11679.7	11795.3	11807.6
25°	11007.1	11304.7	11602.3	11845.7	12089.2	12194.9	12299.4	12360.9
27.5°	11233.4	11631.8	12030.1	12356.0	12681.8	12842.9	13002.7	13011.3
30°	11484.2	11989.6	12493.7	12931.4	13367.9	13564.6	13760.2	13863.4
32.5°	11781.8	12423.6	13064.2	13639.7	14215.1	14513.9	14812.7	14917.2
35°	12111.3	12943.7	13774.9	14568.0	15359.8	15931.6	16503.3	16778.8
37.5°	12507.2	13567.1	14627.0	15818.5	17009.9	17985.0	18958.8	19236.7
40°	12872.4	14236.0	15598.4	17253.4	18908.4	20455.2	22000.7	22302.0
42.5°	13226.5	14876.6	16526.7	18784.2	21041.7	23112.3	25182.9	25966.1
45°	13451.5	15447.1	17441.5	20418.3	23395.1	26237.9	29079.4	29737.2
47.5°	13509.3	15854.1	18198.9	21886.4	25573.9	28919.6	32264.0	33108.7
50°	13307.7	16065.6	18823.5	23690.2	28555.6	31962.8	35368.7	36062.1
52.5°	12796.2	15998.0	19199.8	25088.2	30976.6	34583.0	38189.3	38818.8
55°	11974.8	15587.3	19199.8	26239.1	33277.2	37017.5	40756.7	41713.3
57.5°	10816.6	14802.8	18789.1	27007.6	35226.0	39288.5	43351.1	44210.5
60°	9637.4	13869.6	18100.5	27431.8	36763.0	41066.5	45370.0	46373.3
62.5°	8493.9	12601.9	16708.7	26986.7	37264.7	41807.9	46350.0	47793.5
65°	7399.6	11194.0	14988.5	25901.0	36812.2	42018.2	47223.0	48516.5
67.5°	6445.4	10017.3	13589.2	24081.2	34573.1	40334.9	46095.5	47707.4
70°	5101.5	8388.1	11674.8	20854.8	30034.8	36782.7	43530.6	45520.0
72.5°	3804.3	6591.7	9378.0	16405.0	23432.0	31191.8	38950.4	41453.8
75°	2873.5	5265.0	7656.6	12967.1	18277.6	24847.2	31416.8	34767.4
77.5°	2010.4	3804.3	5597.0	9558.7	13520.4	17157.5	20794.5	22579.9
80°	1411.5	2406.3	3399.8	5305.6	7210.2	8823.4	10435.4	10307.5
82.5°	861.9	1280.0	1696.8	2301.8	2906.7	3296.5	3686.3	3669.0
85°	500.4	608.6	715.6	886.5	1057.4	1250.5	1443.5	1283.7
87.5°	177.1	177.1	177.1	202.9	228.7	314.8	400.8	423.0
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-CA8-400-760-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)