

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: P510865

Luminaire Tested: **CST-CA8-480-760-U-T1**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510865  
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-CA8-480-760-U-T1  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (8) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 73605 lumens  
Efficiency: N/A  
Efficacy: 153.1 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

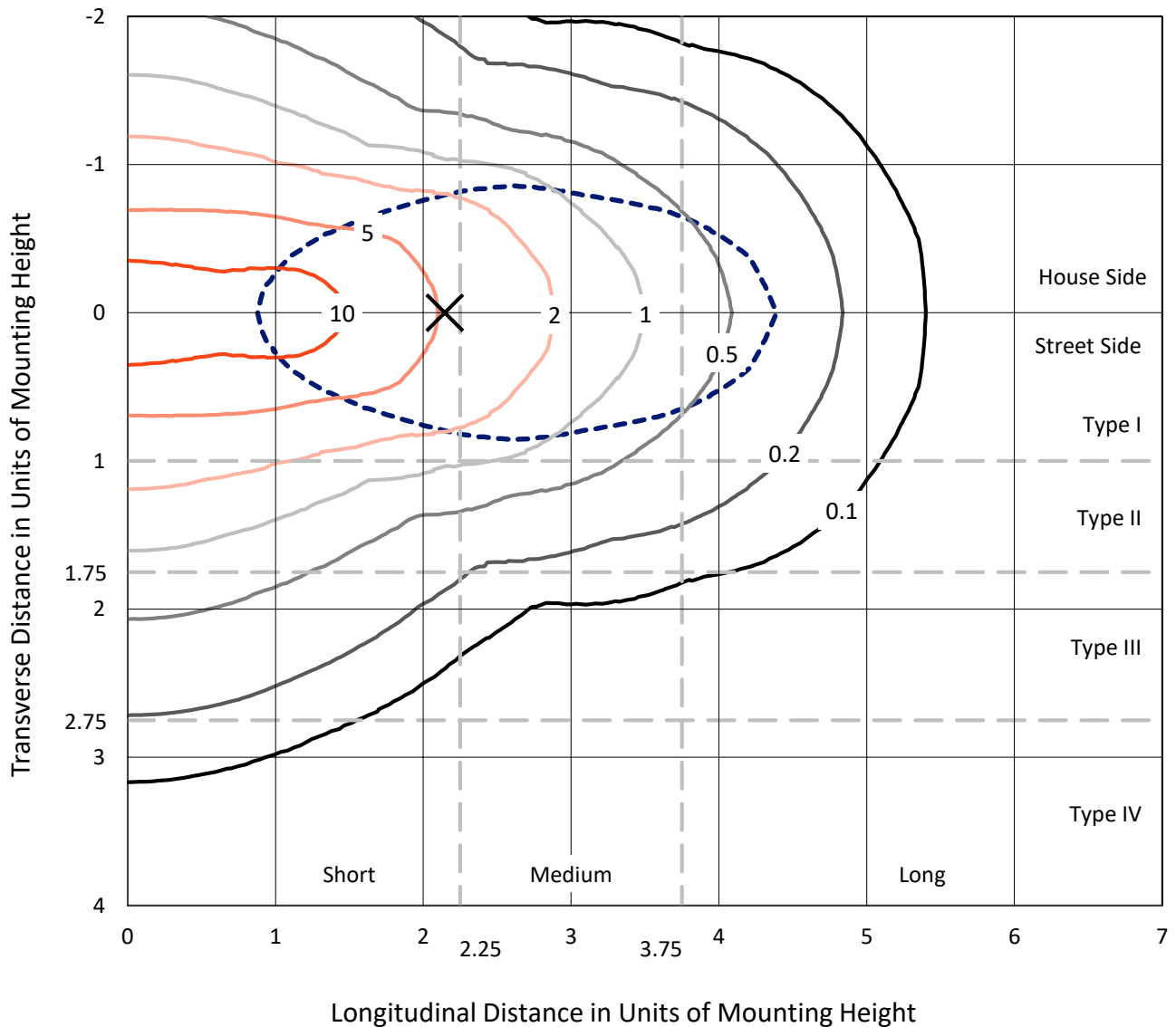
Input Watts (W): 480.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

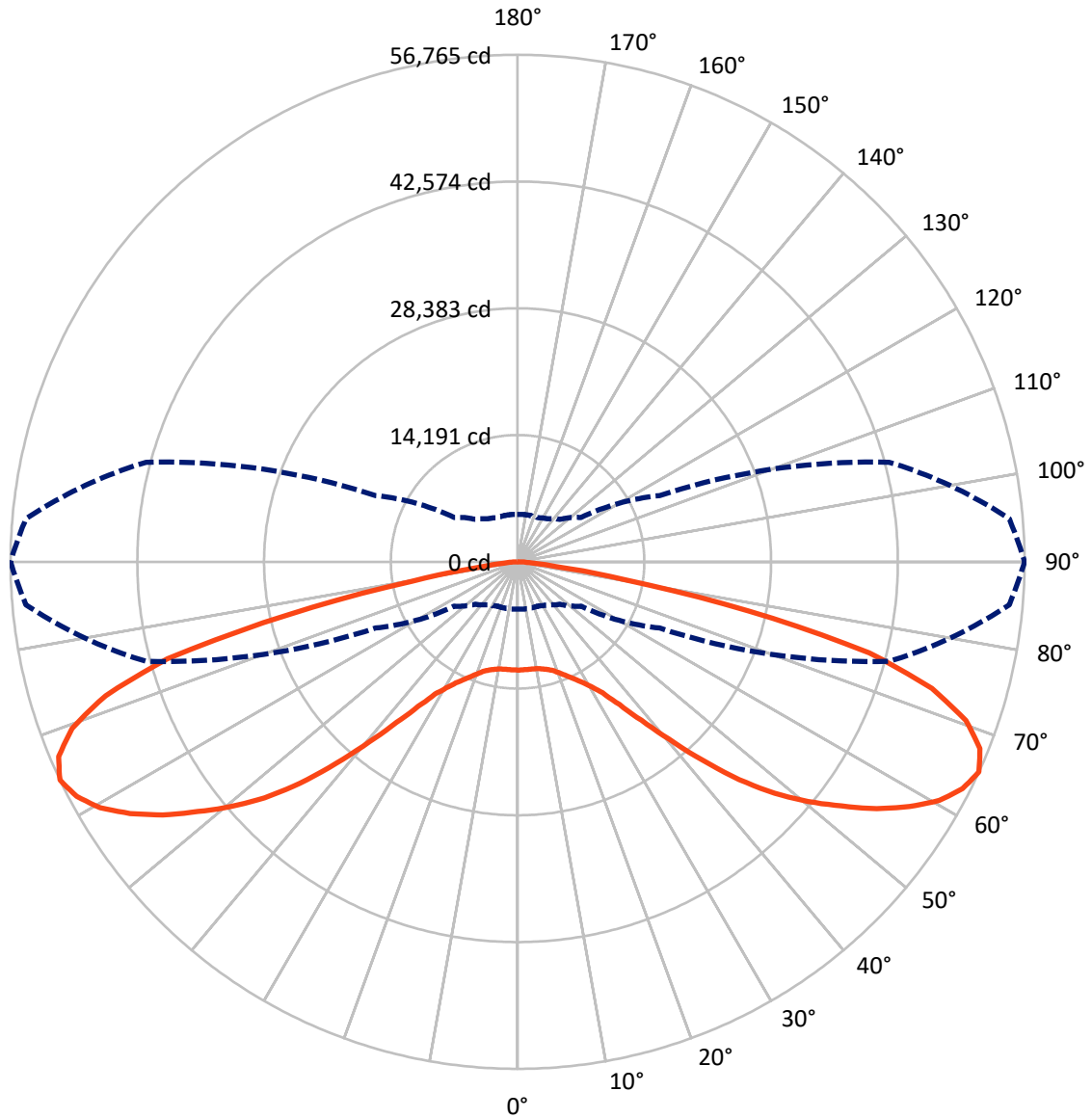
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.7 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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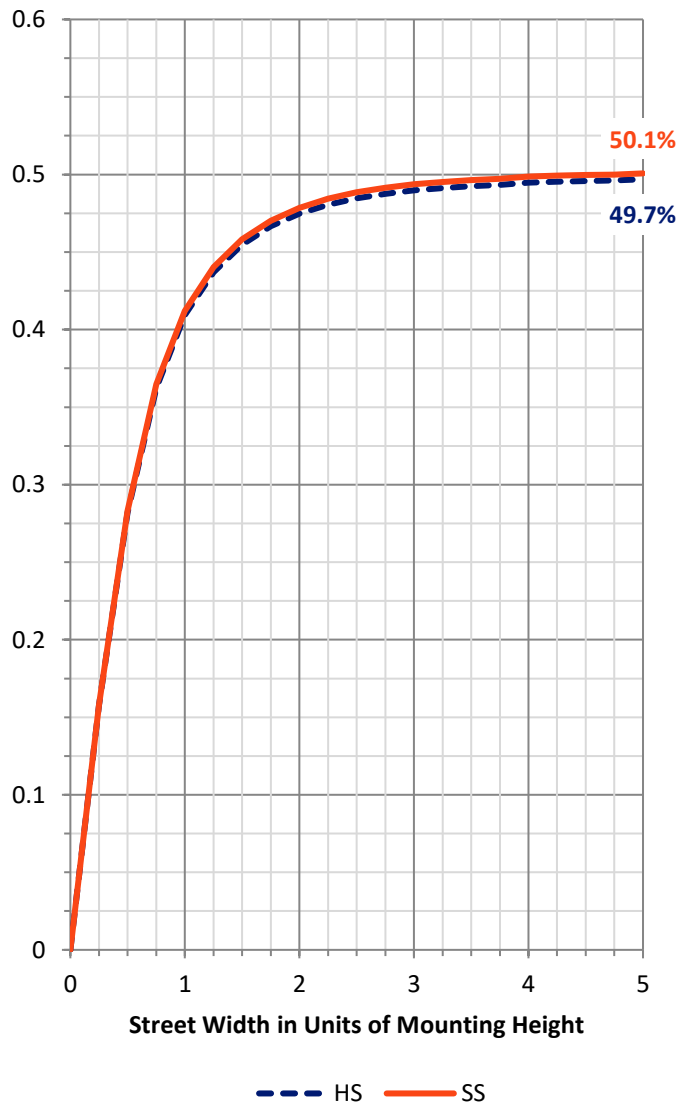
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	36802.5	0.0	36802.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	36802.5	0.0	36802.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	73605.0	0.0	73605.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1150.8	1.6
10°-20°	3395.8	4.6
20°-30°	5593.8	7.6
30°-40°	8195.6	11.1
40°-50°	12118.1	16.5
50°-60°	15895.8	21.6
60°-70°	16583.8	22.5
70°-80°	9534.8	13.0
80°-90°	1136.6	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°	73605.0	100.0
0°-180°	73605.0	100.0

**Coefficient of Utilization**

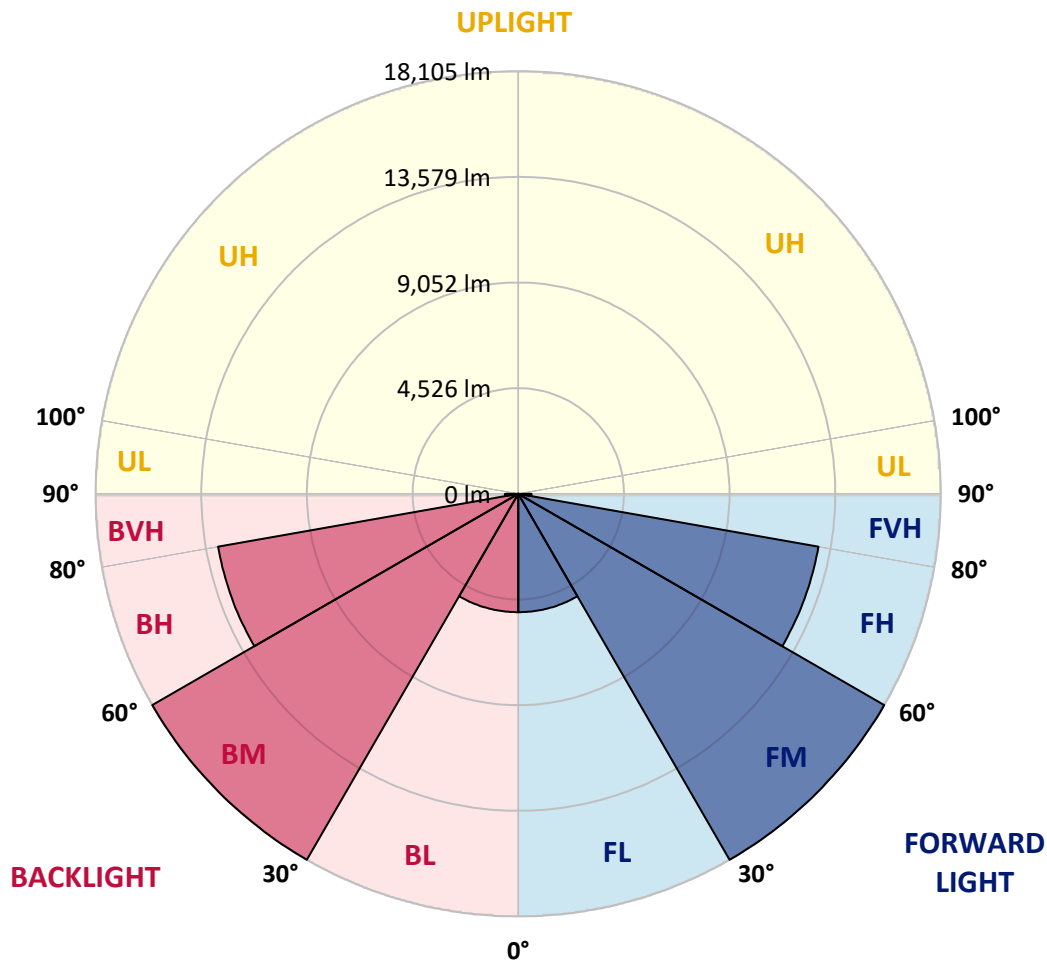


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5070.2	6.9			
FM (30°-60°)	18104.7	24.6			
FH (60°-80°)	13059.3	17.7			G5
FVH (80°-90°)	568.3	0.8			G4/750
BL (0°-30°)	5070.2	6.9	B5		
BM (30°-60°)	18104.7	24.6	B5		
BH (60°-80°)	13059.3	17.7	B5		G5
BVH (80°-90°)	568.3	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°	12126.2	12126.2	12126.2	12126.2	12126.2	12126.2	12126.2	12126.2	12126.2	12126.2	12126.2
2.5°	12123.3	12114.7	12111.8	12107.5	12114.7	12120.5	12134.8	12147.8	12144.9	12142.0	12144.9
5°	12055.7	12060.0	12061.5	12062.9	12068.7	12073.0	12093.1	12113.3	12110.4	12107.5	12121.9
7.5°	11960.8	11960.8	11957.9	11955.0	11966.5	11976.6	11996.7	12016.9	12032.7	12047.1	12070.1
10°	11822.7	11816.9	11815.5	11814.0	11827.0	11838.5	11875.9	11913.3	11944.9	11975.1	12014.0
12.5°	11654.3	11652.9	11655.8	11658.7	11686.0	11713.3	11776.6	11839.9	11903.2	11966.5	12022.6
15°	11454.4	11437.1	11451.5	11464.4	11509.0	11552.2	11674.5	11796.8	11893.1	11988.1	12097.4
17.5°	11149.4	11132.1	11153.7	11173.8	11263.0	11352.2	11524.9	11696.1	11877.3	12058.6	12215.4
20°	10687.6	10687.6	10742.2	10796.9	10948.0	11099.0	11336.4	11572.3	11816.9	12061.5	12288.8
22.5°	10195.6	10181.2	10297.7	10414.2	10595.5	10775.3	11074.6	11373.8	11697.5	12019.7	12331.9
25°	9640.3	9664.7	9811.5	9956.8	10211.4	10464.6	10832.9	11199.7	11606.9	12014.0	12447.0
27.5°	9171.3	9175.6	9352.5	9529.5	9848.9	10166.8	10614.2	11061.6	11557.9	12054.3	12599.5
30°	8686.4	8765.6	8952.6	9138.2	9495.0	9851.7	10392.7	10932.1	11520.5	12108.9	12773.6
32.5°	8313.8	8332.5	8544.0	8754.1	9126.7	9499.3	10127.9	10756.6	11463.0	12169.4	12977.9
35°	7962.8	7993.0	8190.1	8387.2	8775.6	9162.6	9851.7	10539.4	11383.9	12226.9	13199.4
37.5°	7650.6	7688.0	7875.1	8062.1	8436.1	8810.2	9541.0	10271.8	11261.6	12251.4	13442.6
40°	7421.9	7453.5	7611.8	7770.0	8108.1	8444.8	9210.1	9974.0	11090.4	12206.8	13633.9
42.5°	7256.4	7270.8	7398.9	7526.9	7829.0	8131.1	8889.3	9646.0	10867.4	12088.8	13782.1
45°	7032.0	7063.7	7190.3	7315.4	7587.3	7857.8	8551.2	9244.6	10536.5	11827.0	13783.5
47.5°	6865.1	6885.3	7004.7	7122.7	7375.9	7629.1	8252.0	8874.9	10162.5	11448.6	13628.1
50°	6742.9	6732.8	6843.6	6952.9	7167.3	7380.2	7935.5	8489.4	9699.2	10909.1	13239.7
52.5°	6568.8	6580.3	6669.5	6758.7	6944.3	7128.4	7626.2	8122.5	9185.6	10247.4	12609.6
55°	6335.7	6389.0	6463.8	6537.1	6699.7	6862.3	7309.7	7757.1	8672.1	9585.6	11798.2
57.5°	6107.0	6145.8	6209.1	6272.4	6400.5	6527.1	6948.6	7370.1	8131.1	8892.2	10773.9
60°	5920.0	5930.0	5970.3	6009.2	6107.0	6204.8	6553.0	6901.1	7565.8	8229.0	9752.5
62.5°	5678.3	5681.1	5708.5	5735.8	5796.2	5855.2	6128.6	6400.5	6967.3	7534.1	8736.8
65°	5299.9	5322.9	5348.8	5373.3	5413.6	5452.4	5661.0	5869.6	6294.0	6718.4	7688.0
67.5°	4917.2	4897.1	4927.3	4957.5	4963.3	4969.0	5127.3	5285.5	5633.7	5981.8	6761.6
70°	4294.3	4310.1	4307.3	4302.9	4278.5	4252.6	4363.4	4474.1	4658.3	4841.0	5404.9
72.5°	3293.0	3271.4	3216.8	3160.7	3134.8	3108.9	3238.4	3366.4	3501.6	3636.9	4044.0
75°	2012.6	2074.5	2188.2	2300.4	2343.5	2386.7	2379.5	2370.9	2359.4	2347.8	2855.7
77.5°	1363.8	1396.9	1422.8	1447.3	1510.6	1572.4	1644.4	1716.3	1714.8	1713.4	2032.8
80°	867.5	841.6	853.1	864.6	900.6	936.5	1045.9	1153.8	1184.0	1212.8	1432.9
82.5°	543.8	548.1	562.5	575.5	535.2	494.9	579.8	663.2	735.1	805.6	907.8
85°	352.5	399.9	392.7	385.6	338.1	290.6	365.4	440.2	474.7	507.8	546.7
87.5°	113.7	132.4	136.7	139.5	139.5	138.1	153.9	169.8	175.5	179.8	194.2
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°	12126.2	12126.2	12126.2	12126.2	12126.2	12126.2	12126.2	12126.2
2.5°	12146.3	12132.0	12117.6	12113.3	12108.9	12106.1	12103.2	12100.3
5°	12134.8	12132.0	12129.1	12117.6	12106.1	12104.6	12103.2	12107.5
7.5°	12093.1	12093.1	12093.1	12106.1	12119.0	12113.3	12106.1	12114.7
10°	12051.4	12085.9	12120.5	12130.5	12140.6	12147.8	12155.0	12162.2
12.5°	12078.7	12137.7	12195.3	12228.3	12261.4	12278.7	12294.5	12298.8
15°	12206.8	12281.6	12356.4	12401.0	12444.1	12472.9	12501.7	12508.9
17.5°	12372.2	12487.3	12601.0	12665.7	12730.4	12763.5	12795.2	12785.1
20°	12514.6	12672.9	12831.1	12969.2	13107.4	13183.6	13258.4	13267.0
22.5°	12642.7	12908.8	13175.0	13353.4	13530.3	13665.5	13800.8	13815.2
25°	12878.6	13226.8	13574.9	13859.8	14144.6	14268.3	14390.6	14462.5
27.5°	13143.3	13609.4	14075.5	14456.8	14838.0	15026.5	15213.5	15223.6
30°	13436.8	14028.1	14617.9	15130.1	15640.8	15871.0	16099.7	16220.5
32.5°	13784.9	14535.9	15285.4	15958.7	16632.0	16981.6	17331.2	17453.4
35°	14170.5	15144.4	16117.0	17044.9	17971.4	18640.3	19309.3	19631.5
37.5°	14633.7	15873.8	17113.9	18508.0	19902.0	21042.8	22182.2	22507.4
40°	15061.0	16656.4	18250.4	20186.8	22123.2	23933.0	25741.4	26093.9
42.5°	15475.3	17406.0	19336.6	21977.9	24619.3	27041.9	29464.6	30381.0
45°	15738.6	18073.5	20407.0	23889.9	27372.8	30698.9	34023.6	34793.2
47.5°	15806.2	18549.7	21293.2	25607.6	29922.0	33836.6	37749.6	38738.0
50°	15570.3	18797.1	22024.0	27718.1	33410.7	37397.2	41382.2	42193.6
52.5°	14971.8	18718.0	22464.2	29353.8	36243.4	40462.9	44682.4	45419.0
55°	14010.8	18237.5	22464.2	30700.3	38935.1	43311.4	47686.2	48805.5
57.5°	12655.6	17319.7	21983.7	31599.5	41215.3	45968.5	50721.7	51727.3
60°	11276.0	16227.7	21178.1	32095.8	43013.6	48048.8	53084.0	54257.9
62.5°	9938.1	14744.5	19549.5	31575.0	43600.5	48916.3	54230.6	55919.5
65°	8657.7	13097.3	17536.9	30304.7	43071.1	49162.3	55252.0	56765.4
67.5°	7541.3	11720.5	15899.7	28175.6	40451.4	47192.8	53932.8	55818.8
70°	5968.9	9814.3	13659.8	24400.6	35141.4	43036.6	50931.8	53259.5
72.5°	4451.1	7712.5	10972.4	19194.2	27416.0	36495.1	45572.9	48501.9
75°	3362.1	6160.2	8958.3	15171.8	21385.2	29071.8	36758.4	40678.7
77.5°	2352.2	4451.1	6548.6	11183.9	15819.2	20074.6	24330.1	26419.0
80°	1651.5	2815.4	3977.8	6207.7	8436.1	10323.6	12209.6	12060.0
82.5°	1008.5	1497.6	1985.3	2693.1	3400.9	3857.0	4313.0	4292.9
85°	585.5	712.1	837.3	1037.3	1237.2	1463.1	1689.0	1501.9
87.5°	207.2	207.2	207.2	237.4	267.6	368.3	469.0	494.9
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-CA8-480-760-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)