

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: P721887

Luminaire Tested: **CST-CA8-430-722-U-T1**

Issue Date: 10/25/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P721887  
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-CA8-430-722-U-T1  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (8) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

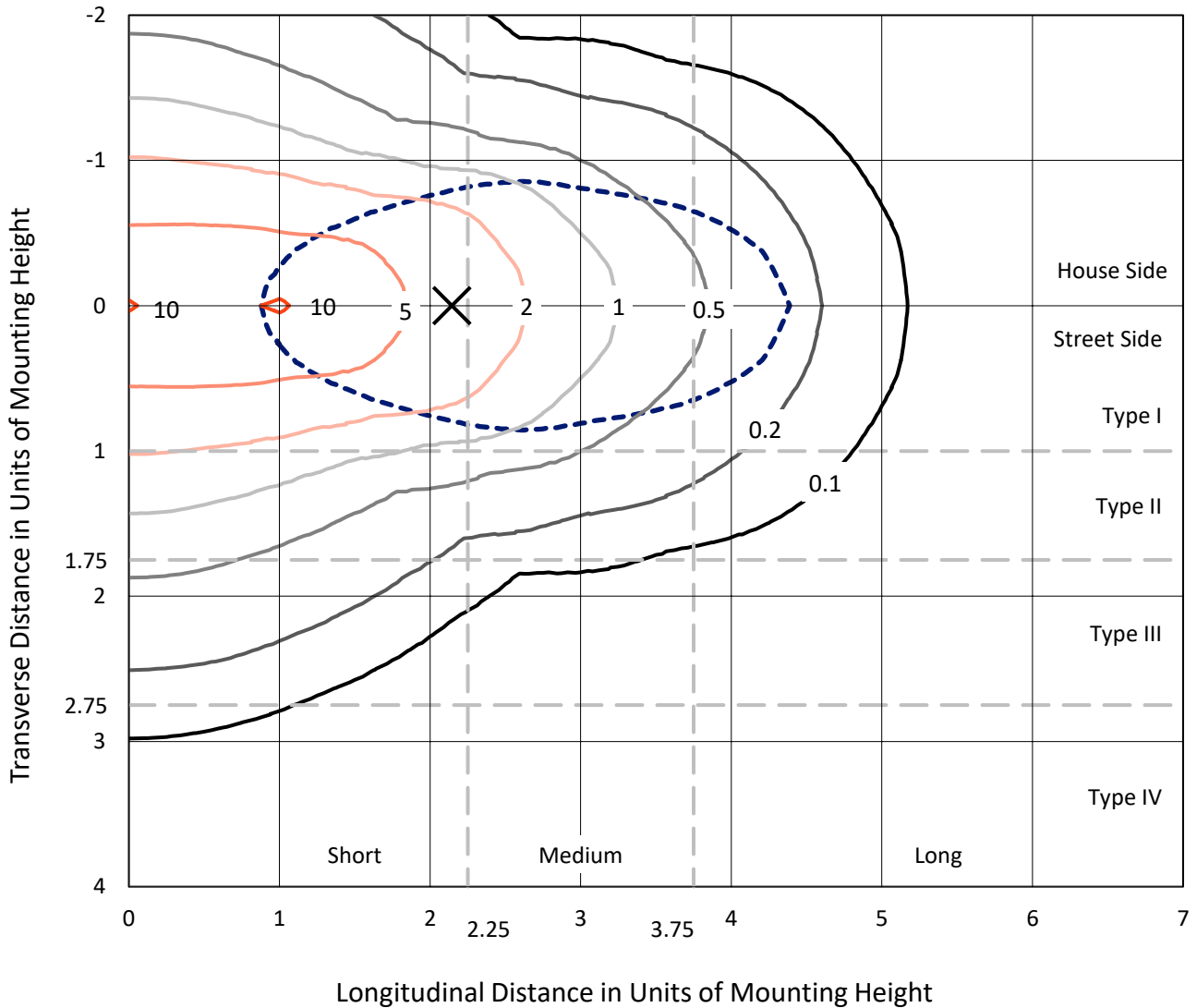
Lumens per Lamp: N/A  
Luminaire Lumens: 55225 lumens  
Efficiency: N/A  
Efficacy: 127.2 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 434.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage 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



REPORT NUMBER: P721887  
 CATALOG NUMBER: CST-CA8-430-722-U-T1

### Iso-Footcandle Lines of Horizontal Illumination

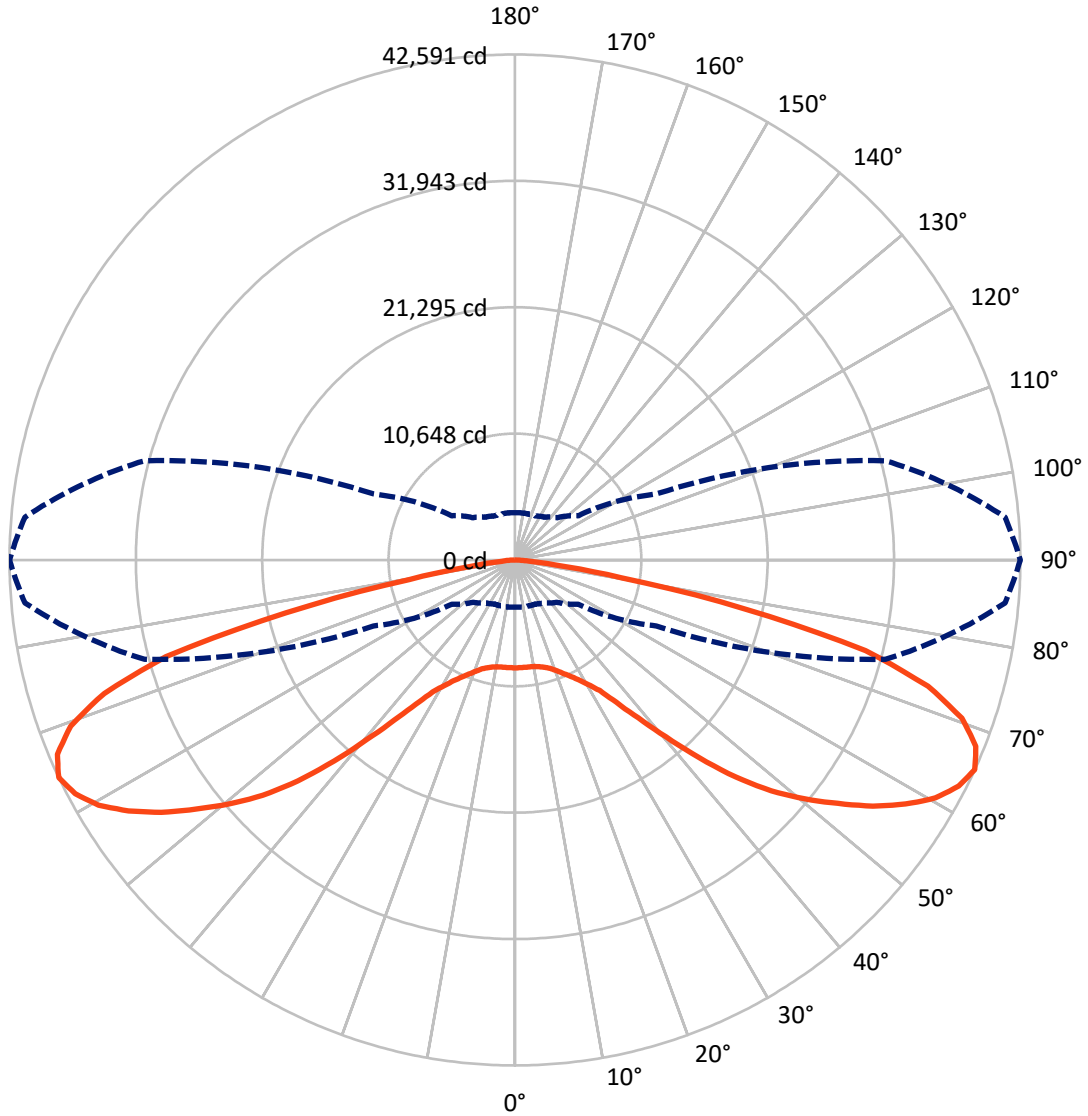
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.3 fc  
 Type I - Short - N/A

REPORT NUMBER: P721887  
CATALOG NUMBER: CST-CA8-430-722-U-T1

### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P721887

CATALOG NUMBER: CST-CA8-430-722-U-T1

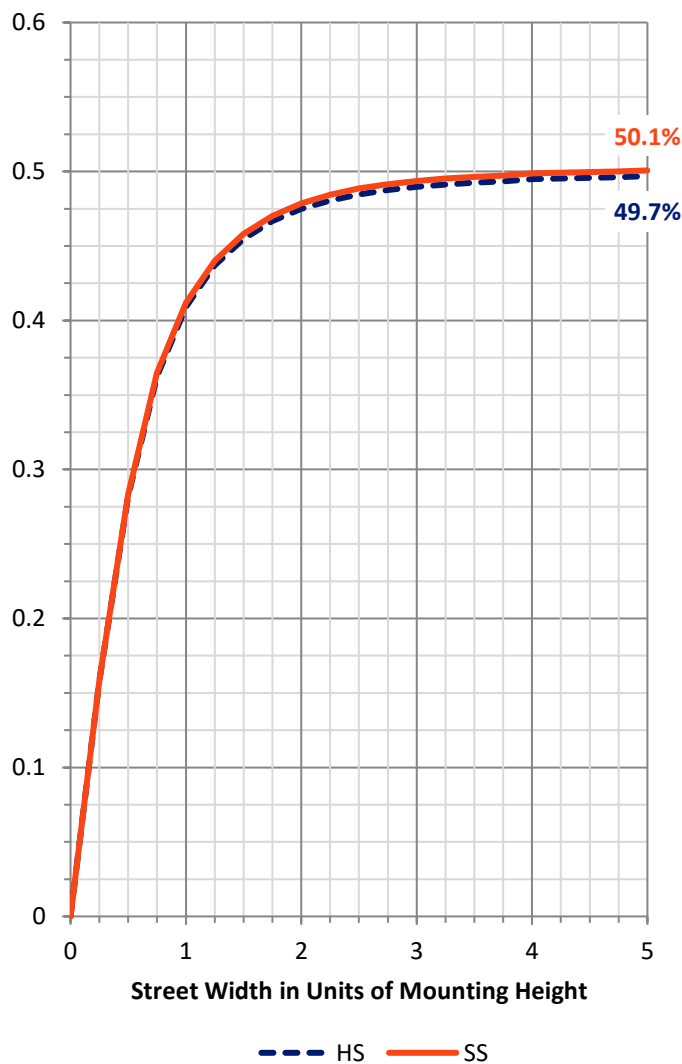
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	27612.5	0.0	27612.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	27612.5	0.0	27612.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	55225.0	0.0	55225.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	863.4	1.6
10°-20°	2547.9	4.6
20°-30°	4197.0	7.6
30°-40°	6149.1	11.1
40°-50°	9092.0	16.5
50°-60°	11926.4	21.6
60°-70°	12442.6	22.5
70°-80°	7153.8	13.0
80°-90°	852.8	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°	55225.0	100.0
0°-180°	55225.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P721887

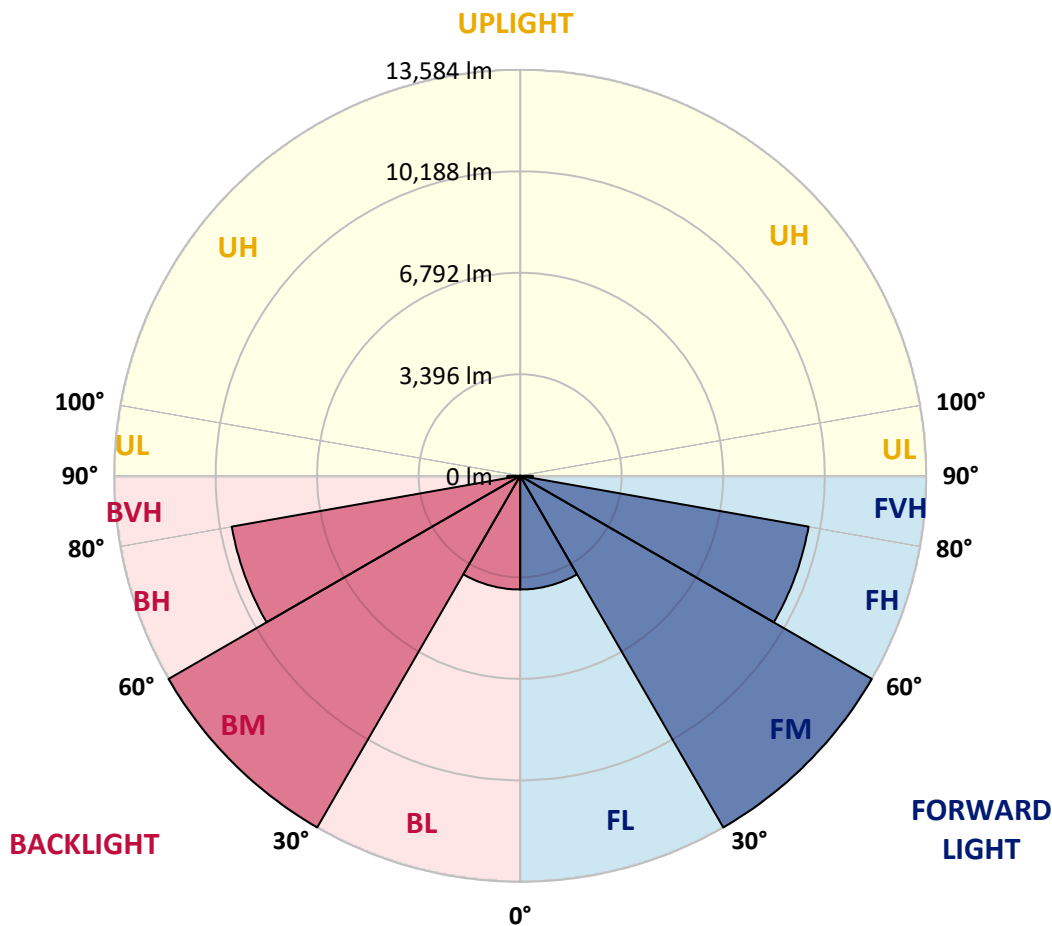
CATALOG NUMBER: CST-CA8-430-722-U-T1

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3804.1	6.9			
FM (30°-60°)	13583.8	24.6			
FH (60°-80°)	9798.2	17.7			G4/12000
FVH (80°-90°)	426.4	0.8			G3/500
BL (0°-30°)	3804.1	6.9	B4/5000		
BM (30°-60°)	13583.8	24.6	B5		
BH (60°-80°)	9798.2	17.7	B5		G5
BVH (80°-90°)	426.4	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





REPORT NUMBER: P721887

CATALOG NUMBER: CST-CA8-430-722-U-T1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	9098.2	9098.2	9098.2	9098.2	9098.2	9098.2	9098.2	9098.2	9098.2	9098.2	9098.2
2.5°	9096.0	9089.5	9087.4	9084.1	9089.5	9093.8	9104.6	9114.3	9112.2	9110.0	9112.2
5°	9045.3	9048.5	9049.6	9050.7	9055.0	9058.2	9073.3	9088.4	9086.3	9084.1	9094.9
7.5°	8974.0	8974.0	8971.9	8969.7	8978.3	8985.9	9001.0	9016.1	9028.0	9038.8	9056.1
10°	8870.4	8866.1	8865.0	8863.9	8873.6	8882.3	8910.3	8938.4	8962.2	8984.8	9014.0
12.5°	8744.1	8743.0	8745.2	8747.4	8767.9	8788.4	8835.9	8883.4	8930.8	8978.3	9020.4
15°	8594.1	8581.1	8591.9	8601.6	8635.1	8667.5	8759.2	8851.0	8923.3	8994.5	9076.6
17.5°	8365.3	8352.3	8368.5	8383.6	8450.5	8517.4	8647.0	8775.4	8911.4	9047.4	9165.1
20°	8018.8	8018.8	8059.8	8100.8	8214.1	8327.5	8505.6	8682.6	8866.1	9049.6	9220.1
22.5°	7649.6	7638.8	7726.3	7813.7	7949.7	8084.6	8309.1	8533.6	8776.5	9018.3	9252.5
25°	7233.0	7251.3	7361.4	7470.4	7661.5	7851.5	8127.8	8403.0	8708.5	9014.0	9338.9
27.5°	6881.1	6884.3	7017.1	7149.9	7389.5	7628.0	7963.7	8299.4	8671.8	9044.2	9453.3
30°	6517.3	6576.7	6717.0	6856.3	7124.0	7391.6	7797.5	8202.3	8643.7	9085.2	9583.9
32.5°	6237.8	6251.8	6410.5	6568.1	6847.6	7127.2	7598.9	8070.6	8600.6	9130.5	9737.2
35°	5974.4	5997.1	6145.0	6292.8	6584.3	6874.6	7391.6	7907.6	8541.2	9173.7	9903.4
37.5°	5740.2	5768.2	5908.6	6048.9	6329.5	6610.2	7158.5	7706.8	8449.4	9192.1	10085.8
40°	5568.6	5592.3	5711.0	5829.8	6083.4	6336.0	6910.2	7483.4	8321.0	9158.6	10229.4
42.5°	5444.4	5455.2	5551.3	5647.4	5874.0	6100.7	6669.5	7237.3	8153.7	9070.1	10340.5
45°	5276.0	5299.8	5394.8	5488.7	5692.7	5895.6	6415.9	6936.1	7905.4	8873.6	10341.6
47.5°	5150.8	5165.9	5255.5	5344.0	5534.0	5724.0	6191.4	6658.7	7624.8	8589.8	10225.0
50°	5059.1	5051.5	5134.6	5216.7	5377.5	5537.3	5953.9	6369.5	7277.2	8185.0	9933.6
52.5°	4928.5	4937.1	5004.0	5071.0	5210.2	5348.4	5721.8	6094.2	6891.9	7688.5	9460.8
55°	4753.6	4793.6	4849.7	4904.7	5026.7	5148.7	5484.4	5820.1	6506.5	7192.0	8852.1
57.5°	4582.0	4611.1	4658.6	4706.1	4802.2	4897.2	5213.4	5529.7	6100.7	6671.7	8083.5
60°	4441.7	4449.2	4479.5	4508.6	4582.0	4655.4	4916.6	5177.8	5676.5	6174.1	7317.2
62.5°	4260.3	4262.5	4283.0	4303.5	4348.9	4393.1	4598.2	4802.2	5227.5	5652.8	6555.1
65°	3976.5	3993.7	4013.2	4031.5	4061.7	4090.9	4247.4	4403.9	4722.3	5040.7	5768.2
67.5°	3689.3	3674.2	3696.9	3719.6	3723.9	3728.2	3846.9	3965.7	4226.9	4488.1	5073.1
70°	3222.0	3233.8	3231.7	3228.4	3210.1	3190.7	3273.8	3356.9	3495.1	3632.1	4055.3
72.5°	2470.7	2454.5	2413.5	2371.4	2352.0	2332.6	2429.7	2525.8	2627.2	2728.7	3034.2
75°	1510.1	1556.5	1641.7	1725.9	1758.3	1790.7	1785.3	1778.8	1770.2	1761.6	2142.6
77.5°	1023.3	1048.1	1067.5	1085.9	1133.4	1179.8	1233.7	1287.7	1286.6	1285.6	1525.2
80°	650.9	631.4	640.1	648.7	675.7	702.7	784.7	865.7	888.3	909.9	1075.1
82.5°	408.0	411.2	422.0	431.8	401.5	371.3	435.0	497.6	551.6	604.5	681.1
85°	264.4	300.1	294.7	289.3	253.7	218.0	274.2	330.3	356.2	381.0	410.2
87.5°	85.3	99.3	102.5	104.7	104.7	103.6	115.5	127.4	131.7	134.9	145.7
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



REPORT NUMBER: P721887  
 CATALOG NUMBER: CST-CA8-430-722-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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CATALOG NUMBER: CST-CA8-430-722-U-T1

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	9098.2	9098.2	9098.2	9098.2	9098.2	9098.2	9098.2	9098.2
2.5°	9113.3	9102.5	9091.7	9088.4	9085.2	9083.0	9080.9	9078.7
5°	9104.6	9102.5	9100.3	9091.7	9083.0	9082.0	9080.9	9084.1
7.5°	9073.3	9073.3	9073.3	9083.0	9092.8	9088.4	9083.0	9089.5
10°	9042.0	9067.9	9093.8	9101.4	9108.9	9114.3	9119.7	9125.1
12.5°	9062.5	9106.8	9150.0	9174.8	9199.6	9212.6	9224.4	9227.7
15°	9158.6	9214.7	9270.9	9304.3	9336.7	9358.3	9379.9	9385.3
17.5°	9282.7	9369.1	9454.4	9502.9	9551.5	9576.3	9600.1	9592.5
20°	9389.6	9508.3	9627.1	9730.7	9834.3	9891.5	9947.6	9954.1
22.5°	9485.7	9685.3	9885.0	10018.9	10151.6	10253.1	10354.6	10365.4
25°	9662.7	9923.9	10185.1	10398.8	10612.5	10705.4	10797.1	10851.1
27.5°	9861.3	10211.0	10560.7	10846.8	11132.8	11274.2	11414.5	11422.1
30°	10081.5	10525.1	10967.7	11351.9	11735.1	11907.8	12079.4	12170.1
32.5°	10342.7	10906.1	11468.5	11973.6	12478.8	12741.1	13003.4	13095.1
35°	10632.0	11362.7	12092.4	12788.6	13483.7	13985.6	14487.5	14729.3
37.5°	10979.5	11910.0	12840.4	13886.3	14932.2	15788.2	16643.1	16887.0
40°	11300.1	12497.1	13693.1	15146.0	16598.8	17956.7	19313.5	19577.9
42.5°	11611.0	13059.5	14508.0	16489.8	18471.6	20289.2	22106.9	22794.5
45°	11808.5	13560.3	15311.1	17924.3	20537.5	23033.0	25527.5	26105.0
47.5°	11859.2	13917.6	15976.0	19213.1	22450.2	25387.2	28323.1	29064.7
50°	11682.2	14103.3	16524.3	20796.6	25067.7	28058.7	31048.6	31657.3
52.5°	11233.2	14043.9	16854.6	22023.8	27193.0	30358.8	33524.7	34077.3
55°	10512.2	13683.4	16854.6	23034.1	29212.5	32496.0	35778.4	36618.2
57.5°	9495.4	12994.7	16494.1	23708.7	30923.4	34489.7	38056.0	38810.4
60°	8460.2	12175.5	15889.7	24081.1	32272.6	36050.5	39828.3	40709.1
62.5°	7456.4	11062.6	14667.8	23690.4	32713.0	36701.3	40688.6	41955.8
65°	6495.8	9826.7	13157.7	22737.3	32315.8	36885.9	41454.9	42590.5
67.5°	5658.1	8793.8	11929.4	21139.8	30350.2	35408.2	40465.1	41880.2
70°	4478.4	7363.6	10248.8	18307.5	26366.2	32289.9	38213.5	39960.0
72.5°	3339.6	5786.6	8232.5	14401.2	20569.9	27381.9	34192.8	36390.5
75°	2522.5	4621.9	6721.3	11383.2	16045.1	21812.3	27579.4	30520.8
77.5°	1764.8	3339.6	4913.4	8391.2	11868.9	15061.8	18254.6	19821.9
80°	1239.1	2112.4	2984.5	4657.6	6329.5	7745.7	9160.8	9048.5
82.5°	756.7	1123.6	1489.6	2020.6	2551.7	2893.8	3236.0	3220.9
85°	439.3	534.3	628.2	778.2	928.3	1097.7	1267.2	1126.9
87.5°	155.4	155.4	155.4	178.1	200.8	276.3	351.9	371.3
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



REPORT NUMBER: P721887  
 CATALOG NUMBER: CST-CA8-430-722-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)