

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: P579591

Luminaire Tested: **CST-CA10-760-760-U-T5N-HSS-HM-EX90**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579591  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/18/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-CA10-760-760-U-T5N-HSS-HM-EX90  
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD  
Light Source: (10) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 87548 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U2 - G5

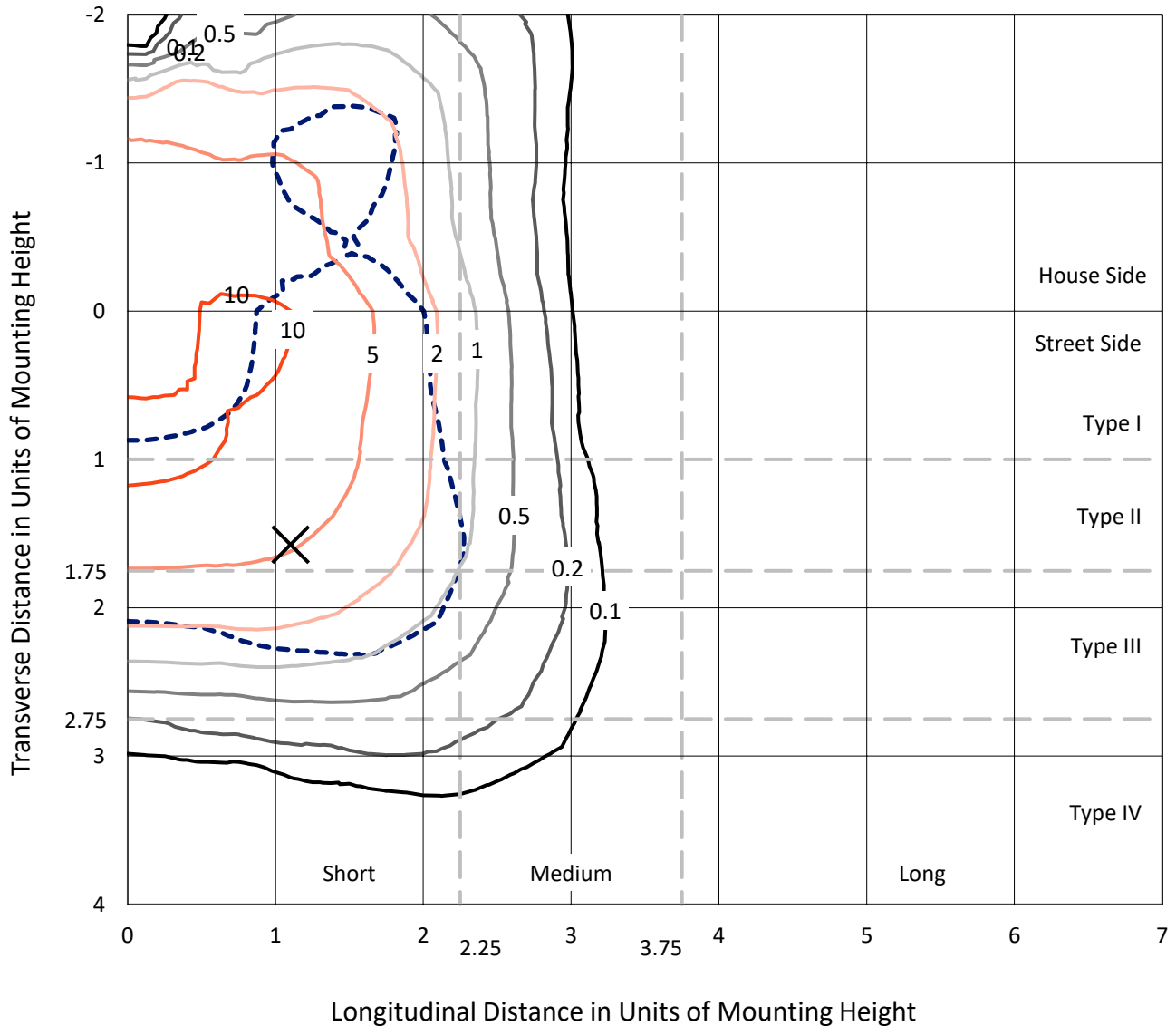
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

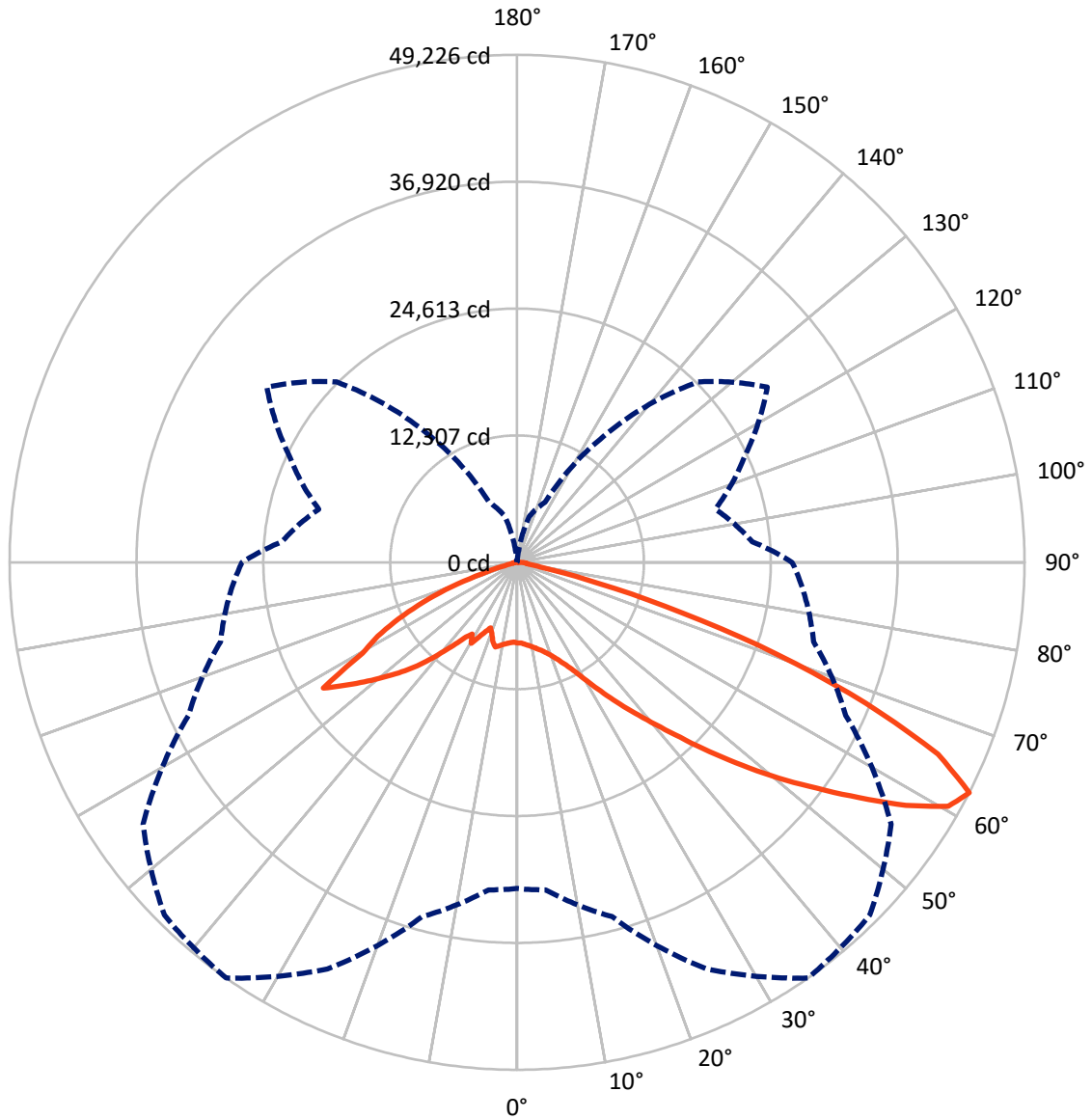
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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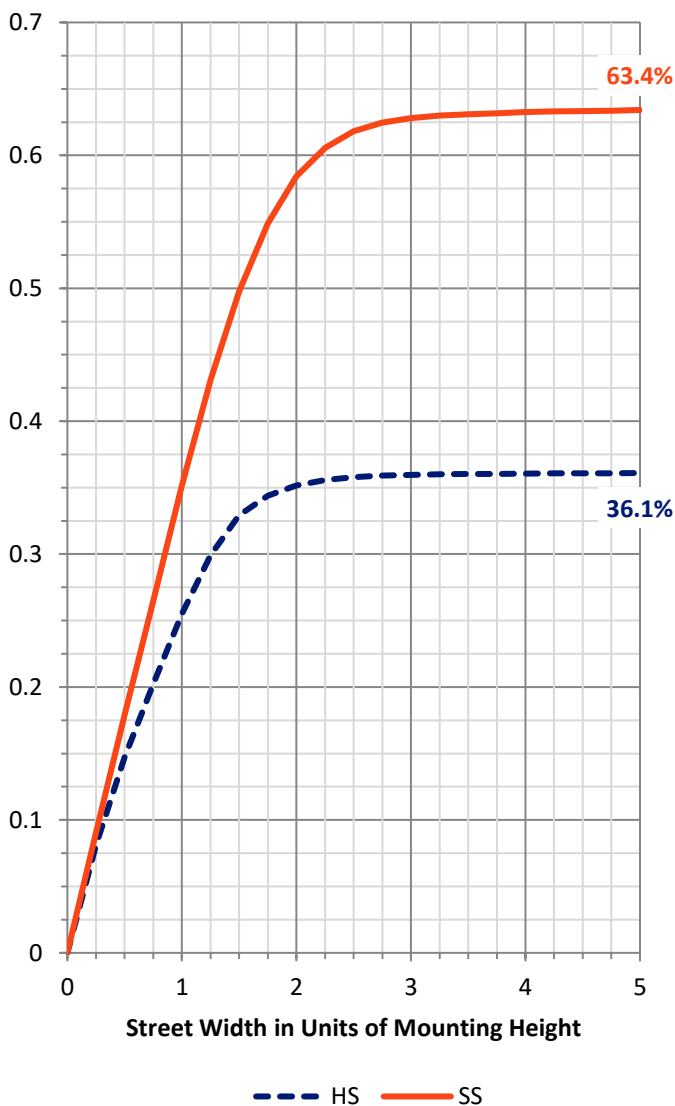
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	31777.8	0.1	31777.9
	% Fixture	36.3	0.0	36.3
<b>Street Side</b>	Lumens	55728.6	41.5	55770.1
	% Fixture	63.7	0.0	63.7
<b>Total</b>	Lumens	87506.4	41.5	87548.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	770.1	0.9
10°-20°	2489.1	2.8
20°-30°	4788.5	5.5
30°-40°	9552.7	10.9
40°-50°	17442.6	19.9
50°-60°	26065.4	29.8
60°-70°	21840.3	24.9
70°-80°	4087.2	4.7
80°-90°	470.5	0.5
90°-100°	37.4	0.0
100°-110°	4.0	0.0
110°-120°	0.1	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°	87506.4	100.0
0°-180°	87548.0	100.0

**Coefficient of Utilization**

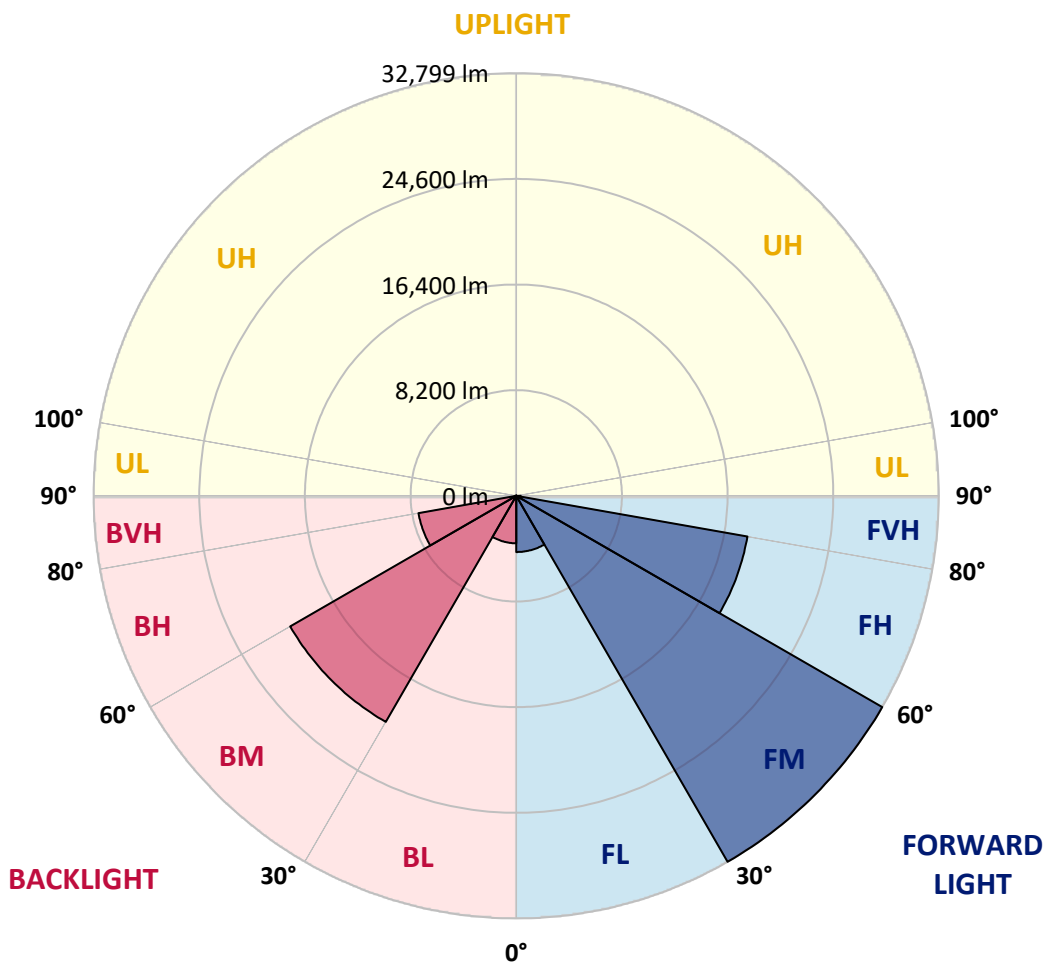


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4365.3	5.0			
FM	(30°-60°)	32799.5	37.5			
FH	(60°-80°)	18221.2	20.8			G5
FVH	(80°-90°)	342.6	0.4			G3/500
BL	(0°-30°)	3682.4	4.2	B4/5000		
BM	(30°-60°)	20261.2	23.1	B5		
BH	(60°-80°)	7706.3	8.8	B5		G5
BVH	(80°-90°)	127.9	0.1			G2/225
UL	(90°-100°)	37.4	0.0		U2/50	
UH	(100°-180°)	4.1	0.0		U1/10	

**BUG Rating: B5-U2-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7833.5	7833.5	7833.5	7833.5	7833.5	7833.5	7833.5	7833.5	7833.5	7833.5	7833.5
2.5°	8000.9	7935.2	7945.1	7991.0	7846.6	7905.7	7843.3	7902.4	7882.7	7909.0	7928.7
5°	8115.7	8033.7	8040.2	8092.7	7981.2	8030.4	7968.0	8007.4	7974.6	8010.7	8014.0
7.5°	8273.2	8204.3	8194.5	8247.0	8151.8	8194.5	8132.1	8151.8	8119.0	8161.7	8148.5
10°	8483.3	8420.9	8404.5	8440.6	8365.1	8388.1	8322.5	8348.7	8299.5	8348.7	8325.7
12.5°	8716.3	8634.2	8637.5	8676.9	8601.4	8617.8	8565.3	8594.9	8535.8	8588.3	8571.9
15°	8991.9	8873.8	8896.8	8939.4	8867.2	8916.5	8854.1	8896.8	8841.0	8896.8	8877.1
17.5°	9349.6	9215.1	9231.5	9300.4	9241.4	9320.1	9247.9	9300.4	9274.2	9310.3	9303.7
20°	9802.5	9713.9	9697.5	9782.8	9697.5	9796.0	9756.6	9848.5	9855.0	9891.1	9907.5
22.5°	10406.4	10347.3	10307.9	10367.0	10291.5	10360.4	10416.2	10573.7	10632.8	10728.0	10734.5
25°	11210.4	11207.1	11118.5	11121.8	11026.6	11118.5	11276.0	11522.2	11679.7	11801.1	11755.2
27.5°	12296.6	12316.3	12181.8	12129.3	12017.7	12155.5	12480.4	12785.6	13071.1	13241.8	13241.8
30°	13714.4	13734.0	13537.1	13432.1	13330.4	13570.0	13957.2	14354.3	14761.2	15007.4	14951.6
32.5°	15591.5	15529.1	15246.9	15056.6	14882.6	15158.3	15604.6	16054.2	16608.8	16963.3	16920.6
35°	17869.0	17642.6	17360.4	17005.9	16631.8	16848.4	17268.5	17832.9	18604.1	19135.8	19001.2
37.5°	20514.1	20290.9	19808.5	19198.1	18545.1	18571.3	18902.8	19880.7	20845.6	21278.7	21186.9
40°	23260.9	23087.0	22643.9	21859.6	20678.2	20405.8	20950.6	22128.7	23050.9	23595.6	23441.4
42.5°	26060.2	25883.0	25548.3	24760.7	23195.3	22538.9	23106.7	24389.8	25374.3	25909.3	25732.0
45°	28853.0	28649.5	28383.7	27688.0	26194.8	25233.2	25551.6	26729.7	27628.9	28236.0	27871.7
47.5°	31307.7	31173.2	30992.7	30710.4	29404.3	28341.0	28318.1	29095.8	29716.1	30116.4	29670.1
50°	33444.1	33348.9	33450.7	33391.6	32915.8	31947.6	31353.7	31301.1	31501.3	31793.4	31156.7
52.5°	35360.6	35193.3	35570.7	36040.0	36391.1	36194.2	34271.1	33191.4	32971.5	33070.0	32348.0
55°	36929.3	36850.5	37483.9	38662.1	40286.5	40719.7	37267.3	35029.2	34218.6	34166.1	33345.7
57.5°	37887.6	37999.2	39265.9	41510.6	44490.4	44628.3	40946.1	36994.9	35432.8	34868.4	33923.2
60°	36361.6	36791.5	38954.1	43584.7	48057.7	48143.0	43647.0	37355.9	33916.7	32653.2	31481.6
62.5°	31642.4	31898.4	35577.2	43515.7	49226.0	48392.4	44290.2	35176.9	29778.4	27763.4	26680.5
65°	22289.5	22768.6	26710.0	39151.0	44858.0	44963.0	40631.1	30415.1	23779.4	21551.1	20852.1
67.5°	13461.7	13921.1	18118.4	28262.3	36466.6	37644.7	33893.7	23027.9	17051.9	14236.1	13530.6
70°	4371.3	4870.1	8256.8	16658.1	26824.9	29650.4	25505.6	14987.7	8929.6	6255.0	5496.9
72.5°	1660.6	1811.5	2687.7	7275.6	16707.3	19795.4	15775.3	7518.4	2766.5	1647.4	1447.2
75°	1079.7	1102.7	1256.9	2549.9	8056.6	10898.6	7603.8	2202.0	1109.2	984.5	912.3
77.5°	928.7	945.1	1010.8	1270.0	2566.3	4167.8	2182.4	1125.6	925.4	820.4	771.2
80°	876.2	882.8	925.4	1076.4	1201.1	1391.5	1050.2	941.9	807.3	771.2	735.1
82.5°	830.3	853.2	876.2	978.0	974.7	1000.9	843.4	738.4	685.9	722.0	708.9
85°	774.5	787.6	804.0	872.9	794.2	672.8	649.8	508.7	495.5	528.4	495.5
87.5°	544.8	577.6	557.9	587.4	551.3	429.9	364.3	288.8	229.7	190.3	183.8
90°	223.2	226.4	213.3	196.9	173.9	144.4	114.9	72.2	32.8	16.4	6.6
92.5°	173.9	173.9	167.4	151.0	131.3	108.3	82.0	45.9	23.0	9.8	3.3
95°	108.3	111.6	105.0	95.2	82.0	65.6	49.2	26.3	16.4	6.6	3.3
97.5°	68.9	68.9	62.4	55.8	45.9	32.8	23.0	19.7	13.1	6.6	0.0
100°	39.4	39.4	36.1	29.5	23.0	16.4	16.4	13.1	9.8	3.3	0.0
102.5°	23.0	23.0	16.4	13.1	9.8	9.8	9.8	9.8	6.6	3.3	0.0
105°	9.8	9.8	6.6	6.6	3.3	3.3	6.6	6.6	6.6	3.3	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6	6.6	3.3	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.6	3.3	3.3



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7833.5	7833.5	7833.5	7833.5	7833.5	7833.5	7833.5	7833.5	7833.5	7833.5
2.5°	7915.5	7856.5	7866.3	7810.5	7800.7	7744.9	7856.5	7869.6	7836.8	7866.3
5°	8007.4	7935.2	7958.2	7895.8	7886.0	7810.5	7909.0	7902.4	7876.2	7905.7
7.5°	8145.3	8069.8	8082.9	8014.0	8000.9	7918.8	8010.7	7981.2	7954.9	7991.0
10°	8338.9	8253.6	8260.1	8171.5	8181.4	8073.1	8184.6	8132.1	8099.3	8148.5
12.5°	8571.9	8476.7	8480.0	8388.1	8384.8	8279.8	8378.3	8348.7	8299.5	8375.0
15°	8873.8	8765.5	8755.7	8634.2	8601.4	8483.3	8575.2	8519.4	8486.6	8594.9
17.5°	9297.1	9175.7	9139.6	8991.9	8378.3	8023.8	8516.1	8683.5	8480.0	8447.2
20°	9861.6	9759.9	9677.8	9454.7	8424.2	7318.3	6501.1	6507.7	7367.5	7764.6
22.5°	10626.2	10504.8	10350.6	10032.2	7728.5	6855.5	6858.8	6849.0	5877.6	5467.4
25°	11673.1	11525.4	11210.4	9412.0	8204.3	7397.0	7377.3	6415.8	5880.9	5910.4
27.5°	13087.5	12785.6	10941.3	10196.3	9051.0	8099.3	7626.7	6458.4	6524.1	6570.0
30°	14885.9	13671.7	11824.1	11381.0	10068.3	9031.3	7052.4	7213.2	7344.5	7374.0
32.5°	16730.3	13711.1	13235.2	12765.9	11322.0	8217.5	7948.4	8253.6	8391.4	8407.8
35°	16713.9	15391.3	14777.6	14249.3	12483.7	8791.8	8962.4	9431.7	9782.8	9766.4
37.5°	17688.5	17245.5	16513.7	15844.2	11236.6	9904.3	10209.5	10741.1	11167.7	11154.6
40°	19726.5	19214.5	18440.0	17035.5	12441.0	11177.6	11604.2	12175.2	12477.1	12493.5
42.5°	21652.9	21229.5	20438.6	15916.4	13947.4	12710.1	13097.4	13481.3	13668.4	13727.5
45°	23569.4	23267.5	20635.5	17590.1	15768.7	14252.6	14508.5	14580.7	14777.6	14754.7
47.5°	25124.9	24790.2	19841.3	19690.4	17977.3	15716.2	15696.5	15601.3	15673.5	15690.0
50°	26545.9	22512.7	21436.3	21938.4	20294.2	17209.4	16835.3	16641.7	16543.2	16500.5
52.5°	27668.3	22519.2	22926.2	24261.8	22909.8	18830.6	18026.5	17481.8	15306.0	17009.2
55°	28623.3	23448.0	24337.3	26746.1	25164.3	20527.2	19103.0	18131.6	10216.0	8191.2
57.5°	29171.3	24153.5	25735.3	29072.8	27133.3	22414.2	17586.8	15207.5	5775.8	5769.3
60°	27054.6	22886.8	25695.9	30293.7	26565.6	17386.6	7160.7	5992.4	1092.8	1122.4
62.5°	22903.2	19910.3	24370.1	29624.2	24741.0	15296.1	6422.3	4614.1	36.1	29.5
65°	17744.3	15883.6	20520.7	26056.9	22509.4	12762.6	4788.0	3324.4	9.8	0.0
67.5°	11607.5	11194.0	15141.9	21606.9	18358.0	9887.9	3212.8	1591.6	6.6	0.0
70°	4948.8	5733.2	9592.5	15667.0	14052.4	6803.0	1549.0	574.3	3.3	0.0
72.5°	1384.9	1834.5	4269.5	9179.0	8837.7	3577.1	603.8	242.8	3.3	0.0
75°	820.4	705.6	1224.1	3662.4	4302.3	1256.9	278.9	187.1	3.3	0.0
77.5°	682.6	551.3	702.3	935.3	1302.8	452.9	236.3	167.4	0.0	0.0
80°	639.9	489.0	607.1	653.1	643.2	377.4	233.0	167.4	0.0	0.0
82.5°	607.1	426.6	502.1	502.1	538.2	347.9	219.9	164.1	0.0	0.0
85°	456.2	298.6	334.7	433.2	387.2	246.1	160.8	131.3	0.0	0.0
87.5°	173.9	108.3	131.3	137.8	111.6	55.8	13.1	13.1	0.0	0.0
90°	3.3	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
95°	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
100°	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
105°	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
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P579591  
 CATALOG NUMBER: CST-CA10-760-760-U-T5N-HSS-HM-EX90

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	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
117.5°	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
122.5°	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
127.5°	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
132.5°	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
137.5°	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
142.5°	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
147.5°	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
152.5°	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
157.5°	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
162.5°	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
167.5°	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
172.5°	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
177.5°	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

(END OF REPORT)