

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: P579589

Luminaire Tested: **CST-CA10-760-760-U-T5N-HSS-HM-EX120**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579589  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-5)  
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-EX120  
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: 83409 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U2 - G5

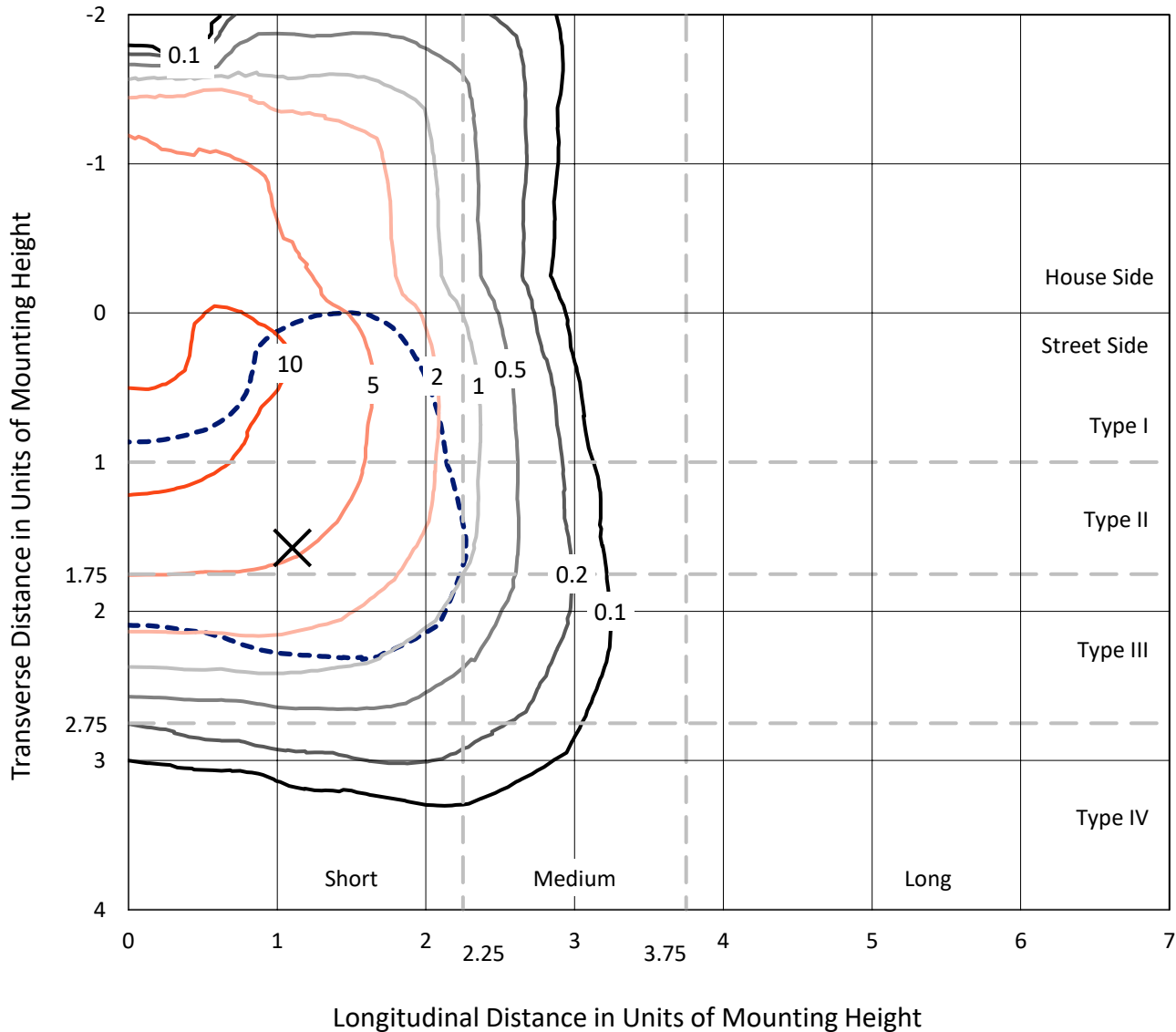
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P579589  
 CATALOG NUMBER: CST-CA10-760-760-U-T5N-HSS-HM-EX120

### Iso-Footcandle Lines of Horizontal Illumination

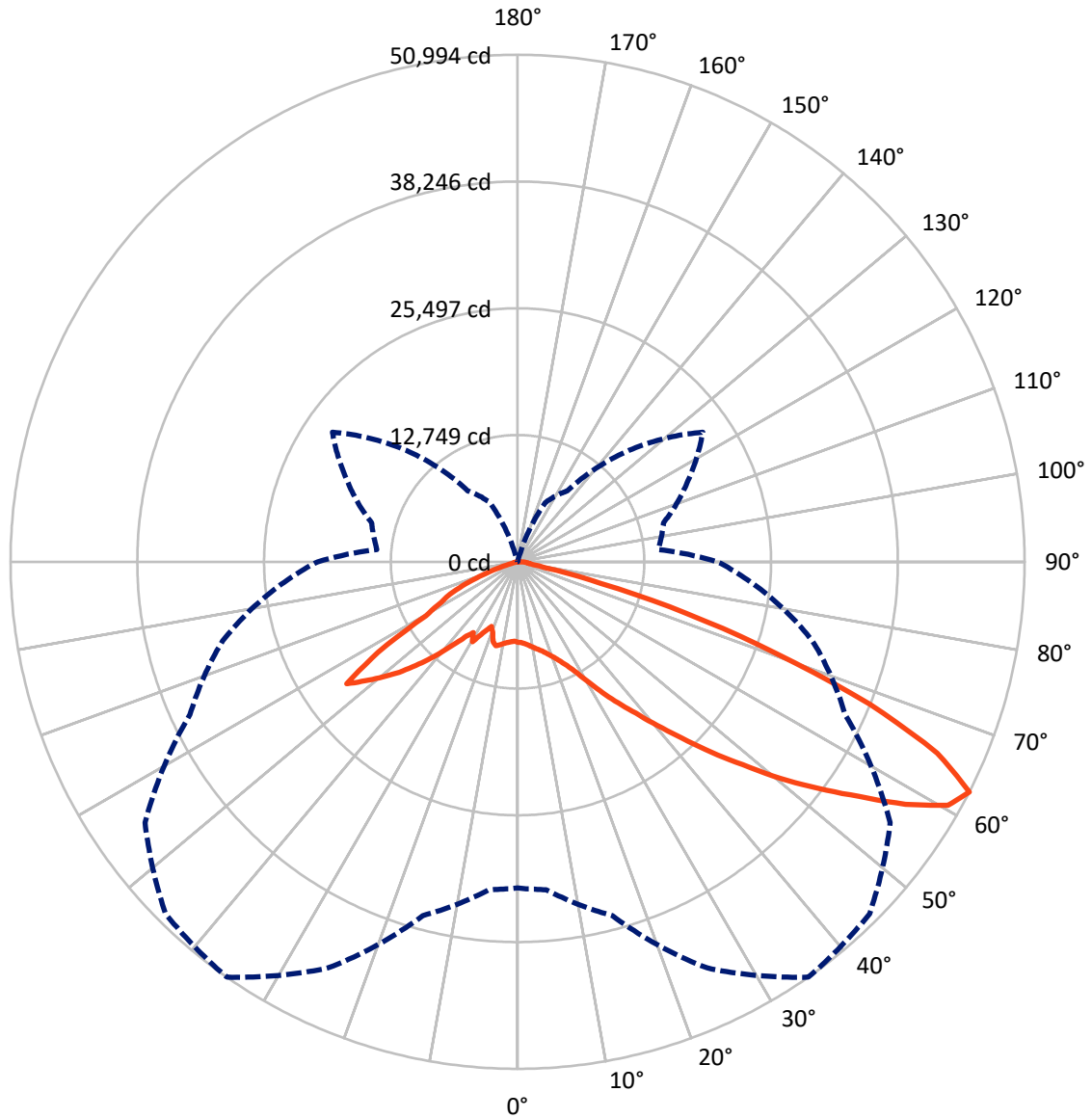
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.2 fc  
 Type III - Short - N/A

REPORT NUMBER: P579589  
CATALOG NUMBER: CST-CA10-760-760-U-T5N-HSS-HM-EX120

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P579589  
 CATALOG NUMBER: CST-CA10-760-760-U-T5N-HSS-HM-EX120

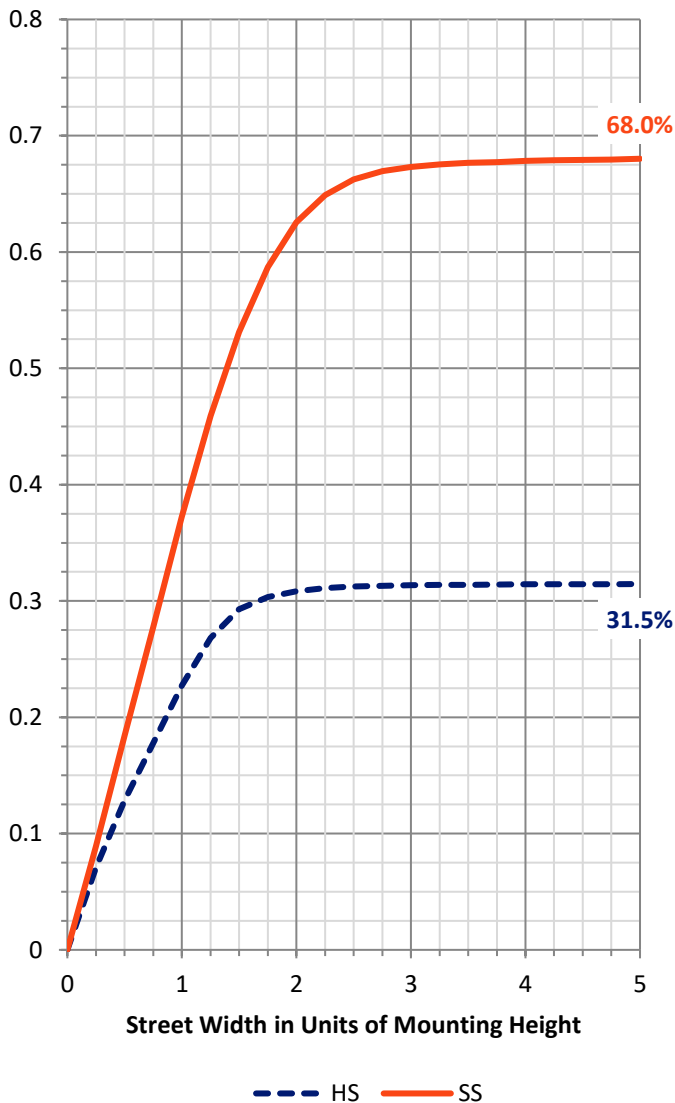
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	26387.0	0.0	26387.1
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	56974.3	47.6	57021.9
	% Fixture	68.3	0.1	68.4
<b>Total</b>	Lumens	83361.3	47.7	83409.0
	% Fixture	99.9	0.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	798.4	1.0
10°-20°	2566.9	3.1
20°-30°	4766.4	5.7
30°-40°	9397.3	11.3
40°-50°	16869.3	20.2
50°-60°	24521.3	29.4
60°-70°	20152.6	24.2
70°-80°	3830.7	4.6
80°-90°	458.6	0.5
90°-100°	43.4	0.1
100°-110°	4.2	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°	83361.3	99.9
0°-180°	83409.0	100.0

**Coefficient of Utilization**

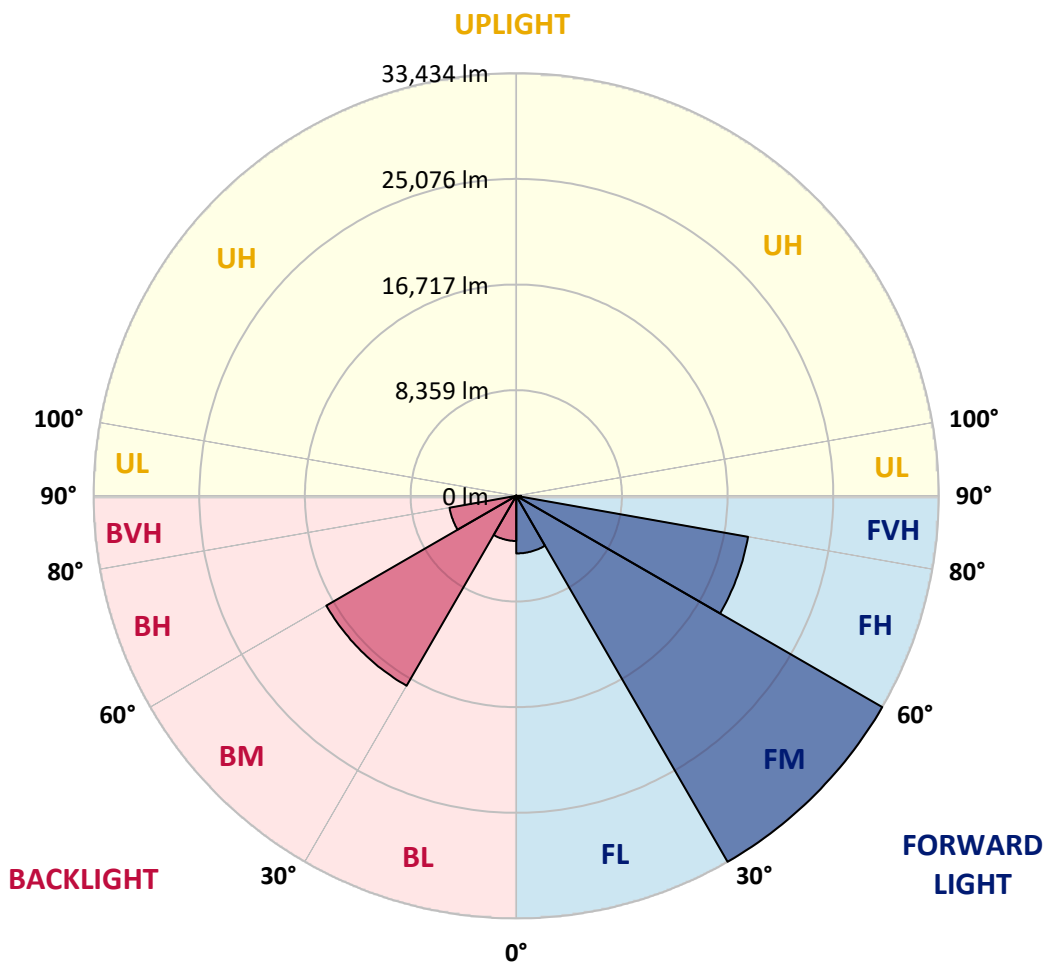


REPORT NUMBER: P579589  
 CATALOG NUMBER: CST-CA10-760-760-U-T5N-HSS-HM-EX120

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4558.8	5.5			
FM (30°-60°)	33434.2	40.1			
FH (60°-80°)	18618.8	22.3			G5
FVH (80°-90°)	362.6	0.4			G3/500
BL (0°-30°)	3572.9	4.3	B4/5000		
BM (30°-60°)	17353.7	20.8	B5		
BH (60°-80°)	5364.4	6.4	B5		G5
BVH (80°-90°)	96.0	0.1			G1/100
UL (90°-100°)	43.4	0.1		U2/50	
UH (100°-180°)	4.2	0.0		U1/10	

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





REPORT NUMBER: P579589

CATALOG NUMBER: CST-CA10-760-760-U-T5N-HSS-HM-EX120

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8096.1	8096.1	8096.1	8096.1	8096.1	8096.1	8096.1	8096.1	8096.1	8096.1	8096.1
2.5°	8302.9	8235.1	8241.9	8292.8	8140.2	8191.1	8119.9	8180.9	8153.8	8180.9	8197.8
5°	8469.1	8384.3	8380.9	8431.8	8309.7	8340.2	8258.9	8299.6	8262.3	8296.2	8296.2
7.5°	8672.5	8601.3	8584.3	8625.0	8516.5	8530.1	8448.7	8465.7	8421.6	8465.7	8431.8
10°	8926.8	8862.3	8835.2	8855.6	8757.2	8764.0	8675.9	8682.7	8618.2	8655.5	8628.4
12.5°	9194.6	9106.5	9092.9	9126.8	9025.1	9011.5	8936.9	8943.7	8872.5	8906.4	8886.1
15°	9472.6	9381.1	9384.5	9418.4	9316.7	9323.4	9245.5	9259.0	9187.8	9221.7	9194.6
17.5°	9842.2	9750.6	9743.8	9804.9	9720.1	9747.2	9665.9	9682.8	9632.0	9638.7	9608.2
20°	10371.1	10252.4	10228.7	10316.8	10204.9	10238.8	10194.8	10252.4	10232.0	10215.1	10191.4
22.5°	11001.7	10910.1	10862.6	10930.5	10798.2	10862.6	10886.4	11005.0	11035.6	11015.2	10642.3
25°	11845.8	11798.4	11750.9	11720.4	11561.1	11662.8	11784.8	11981.5	12110.3	12161.1	11642.4
27.5°	12985.0	13008.7	12801.9	12768.0	12588.3	12747.7	12968.1	13286.7	13547.8	13642.7	12944.3
30°	14449.6	14480.1	14198.7	14117.4	14008.9	14144.5	14554.7	14903.9	15290.4	15449.8	14517.4
32.5°	16395.7	16368.6	15954.9	15799.0	15700.7	15754.9	16185.5	16663.5	17097.5	17456.9	16310.9
35°	18772.3	18687.6	18246.8	17816.2	17426.3	17592.5	17907.8	18487.5	19145.3	19674.1	18080.7
37.5°	21532.0	21450.7	20779.4	20077.6	19308.0	19379.2	19660.6	20606.5	21454.1	21593.1	17778.9
40°	24383.3	24349.4	23715.4	22823.8	21627.0	21291.3	21664.3	22817.0	23712.0	21287.9	18480.7
42.5°	27231.2	27068.5	26712.5	25820.8	24227.4	23488.3	23990.0	25142.8	26105.6	22318.6	20108.1
45°	30102.8	29936.7	29635.0	28980.6	27322.8	26248.0	26393.8	27672.0	28543.3	24251.1	21803.3
47.5°	32652.4	32530.3	32313.3	31947.2	30469.0	29496.0	29214.6	30109.6	30702.9	25820.8	23105.2
50°	34849.3	34744.2	34829.0	34706.9	34272.9	33252.5	32323.5	32265.9	32550.7	27217.7	24302.0
52.5°	36781.8	36639.4	37002.2	37432.7	37832.8	37605.7	35357.9	34310.2	34052.6	28265.3	25105.5
55°	38378.6	38327.8	38951.6	40114.5	41636.8	42233.5	38602.4	36198.7	35395.2	29153.5	25180.1
57.5°	39334.7	39456.8	40775.6	43026.8	46003.5	46284.9	42399.6	38205.7	36578.4	29692.6	25536.0
60°	37700.6	38114.2	40487.4	45210.2	49719.3	49841.4	45128.8	38605.8	35029.0	27753.3	23634.1
62.5°	32804.9	33103.3	36836.0	45071.2	50994.1	50065.2	45739.1	36347.8	30699.5	23542.5	20101.3
65°	23179.8	23525.6	28024.6	40643.4	46393.4	46427.3	41897.8	31431.8	24539.3	18226.5	15521.0
67.5°	13981.8	14541.2	18802.8	29506.1	38199.0	38894.0	34954.4	23796.8	17562.0	11900.1	10045.6
70°	4587.1	5099.1	8584.3	17463.6	27536.3	30513.1	26251.4	15463.3	9170.9	5031.3	4051.5
72.5°	1817.2	2051.2	3024.2	7723.2	17745.0	20372.6	16175.3	7472.3	3078.4	1335.8	1162.9
75°	1213.7	1237.5	1396.8	2630.9	8682.7	11140.7	7797.8	2173.2	1142.5	834.0	732.3
77.5°	1057.8	1061.2	1132.4	1386.6	2827.5	4271.8	2244.4	1166.3	945.9	684.8	606.9
80°	969.6	983.2	1027.3	1183.2	1295.1	1451.1	1108.6	973.0	820.5	630.6	573.0
82.5°	929.0	939.1	966.2	1071.3	1047.6	1088.3	895.0	773.0	691.6	579.7	549.2
85°	847.6	864.5	881.5	945.9	861.1	745.9	691.6	518.7	495.0	437.4	403.5
87.5°	640.8	637.4	620.4	630.6	576.4	471.3	389.9	291.6	237.3	196.6	162.7
90°	267.8	271.2	261.1	247.5	217.0	179.7	135.6	81.4	40.7	13.6	6.8
92.5°	203.4	206.8	200.0	179.7	156.0	125.4	91.5	47.5	27.1	10.2	3.4
95°	125.4	128.8	122.1	108.5	94.9	71.2	47.5	30.5	17.0	6.8	0.0
97.5°	74.6	78.0	71.2	64.4	50.9	33.9	27.1	20.3	13.6	6.8	0.0
100°	44.1	44.1	40.7	33.9	23.7	20.3	17.0	13.6	10.2	3.4	0.0
102.5°	20.3	20.3	20.3	13.6	10.2	10.2	10.2	10.2	10.2	3.4	0.0
105°	6.8	6.8	3.4	3.4	3.4	6.8	6.8	6.8	6.8	3.4	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	6.8	6.8	3.4	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	0.0



REPORT NUMBER: P579589  
 CATALOG NUMBER: CST-CA10-760-760-U-T5N-HSS-HM-EX120

**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





REPORT NUMBER: P579589

CATALOG NUMBER: CST-CA10-760-760-U-T5N-HSS-HM-EX120

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8096.1	8096.1	8096.1	8096.1	8096.1	8096.1	8096.1	8096.1	8096.1	8096.1
2.5°	8180.9	8116.5	8126.6	8069.0	8055.4	7994.4	8102.9	8113.1	8082.6	8113.1
5°	8282.6	8204.6	8225.0	8160.5	8143.6	8058.8	8147.0	8140.2	8116.5	8147.0
7.5°	8431.8	8343.6	8353.8	8279.2	8262.3	8167.3	8248.7	8225.0	8197.8	8235.1
10°	8621.6	8536.9	8540.3	8438.6	8428.4	8319.9	8425.0	8380.9	8340.2	8394.5
12.5°	8886.1	8767.4	8757.2	8645.4	8642.0	8530.1	8638.6	8601.3	8547.0	8631.8
15°	9191.2	9031.9	8991.2	8848.8	8845.4	8726.7	8835.2	8777.6	8750.5	8852.2
17.5°	9587.9	9387.9	9079.3	8594.5	8374.1	8411.4	8794.5	8933.5	8570.8	8625.0
20°	9828.6	8859.0	8408.0	8208.0	8102.9	7499.4	6682.4	6750.2	7553.7	7936.8
22.5°	9421.8	9133.6	8967.4	8686.1	7221.4	7014.6	7062.1	7048.5	6011.1	5702.6
25°	10269.3	9998.1	9696.4	7960.5	7658.8	7570.6	7594.4	6621.3	6055.1	6078.9
27.5°	11489.9	11140.7	9228.5	8475.9	8414.8	8286.0	7818.1	6648.5	6719.7	6767.1
30°	13032.5	11791.6	9828.6	9499.7	9377.7	9238.7	7255.3	7428.2	7560.5	7706.2
32.5°	14524.2	11469.5	10977.9	10635.5	10445.6	8387.7	8184.3	8503.0	8635.2	8760.6
35°	14388.6	12849.4	12212.0	11778.0	11422.1	9052.2	9231.9	9716.7	10065.9	10062.5
37.5°	14761.5	14351.3	13615.6	13066.4	9913.4	10140.5	10516.8	11069.5	11493.3	11489.9
40°	16317.7	15873.6	15181.9	14002.1	10984.7	11513.6	12028.9	12547.6	12852.8	12876.5
42.5°	17863.7	17521.3	16897.5	12368.0	12296.8	13029.1	13568.1	13897.0	14083.5	14147.9
45°	19402.9	19080.8	16602.5	13680.0	13897.0	14622.5	14951.4	15015.8	15215.8	15209.1
47.5°	20626.8	20352.2	15273.5	15239.6	15778.6	16280.4	16175.3	16093.9	16144.8	16171.9
50°	21755.8	17717.9	16466.9	16961.9	17782.3	17843.4	17406.0	13788.5	17070.4	17012.7
52.5°	20209.8	17290.7	17578.9	18738.4	20135.2	19426.6	18572.3	12086.6	16009.2	17531.4
55°	17684.0	17975.6	18626.5	20572.6	21952.5	21111.6	19684.3	12445.9	10625.3	8648.8
57.5°	18036.6	18497.7	19735.2	22423.7	23627.3	16721.2	18372.3	8774.2	5939.9	5936.5
60°	16795.7	17494.2	19711.4	23254.3	19124.9	10713.5	7360.4	200.0	1152.7	1142.5
62.5°	14198.7	15192.1	18806.2	22728.8	15843.1	8706.4	6556.9	17.0	6.8	6.8
65°	10981.3	12151.0	15680.3	19680.9	14036.0	7499.4	4868.5	0.0	0.0	0.0
67.5°	7201.1	8286.0	11774.7	16348.2	11652.6	5668.6	3271.7	0.0	0.0	0.0
70°	3000.5	4339.6	7316.4	11815.3	8570.8	3712.4	1552.8	0.0	0.0	0.0
72.5°	867.9	1322.2	3295.4	7055.3	5319.4	1942.7	576.4	0.0	0.0	0.0
75°	573.0	603.5	996.8	2837.7	2586.8	712.0	233.9	0.0	0.0	0.0
77.5°	481.4	495.0	634.0	793.3	830.6	281.4	189.9	0.0	0.0	0.0
80°	444.1	447.5	569.6	589.9	444.1	233.9	186.5	0.0	0.0	0.0
82.5°	413.6	403.5	484.8	467.9	369.5	203.4	172.9	0.0	0.0	0.0
85°	284.8	291.6	328.9	417.0	223.8	101.7	122.1	0.0	0.0	0.0
87.5°	88.1	101.7	128.8	132.2	40.7	13.6	0.0	0.0	0.0	0.0
90°	3.4	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: P579589  
 CATALOG NUMBER: CST-CA10-760-760-U-T5N-HSS-HM-EX120

**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)