

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: P579533

Luminaire Tested: **CST-CA10-630-750-U-T5-HSS-HM-EX180**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579533  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/18/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-CA10-630-750-U-T5-HSS-HM-EX180  
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD  
Light Source: (10) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 57945 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B5 - U3 - G5

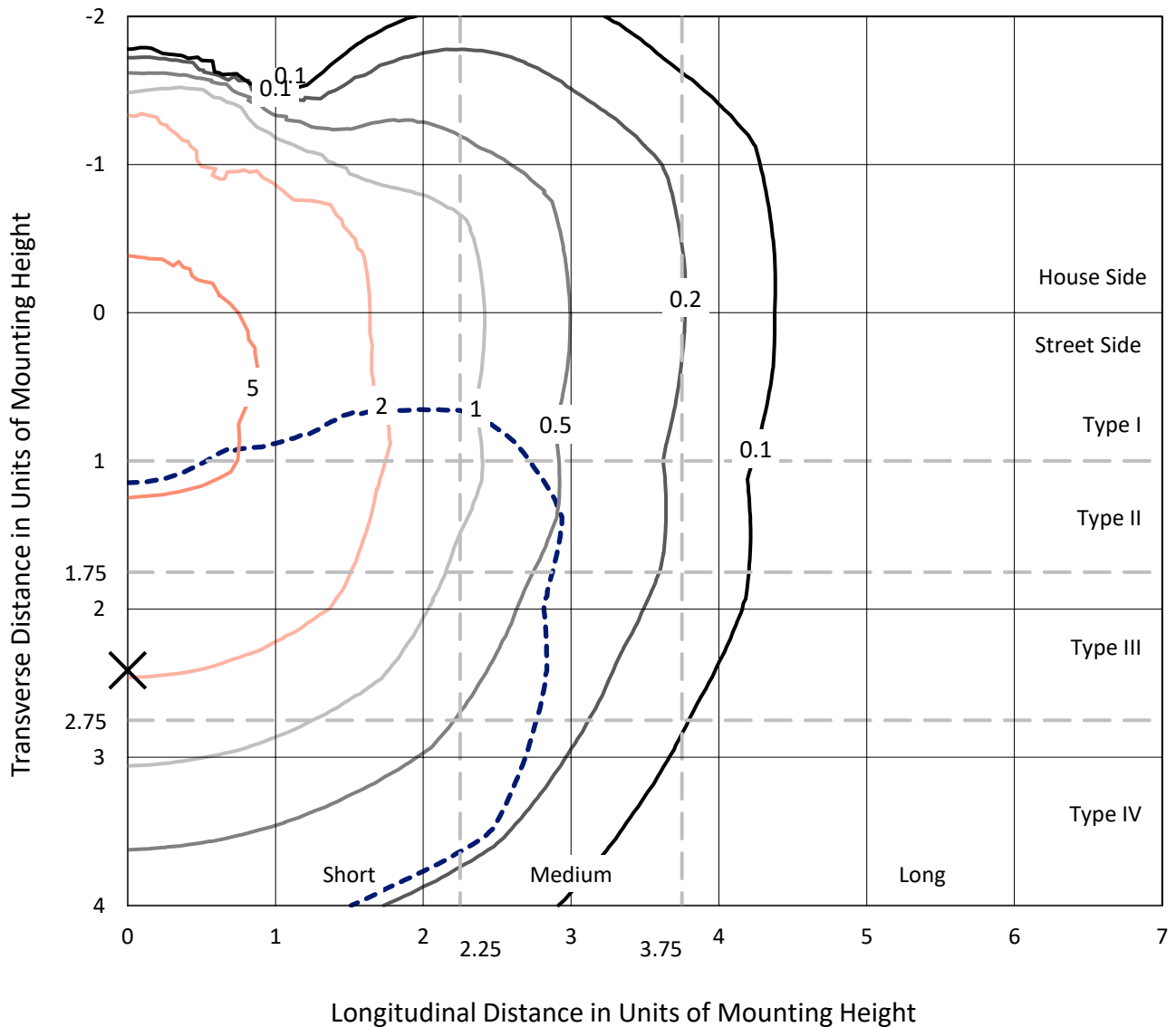
Input Watts (W): 631.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

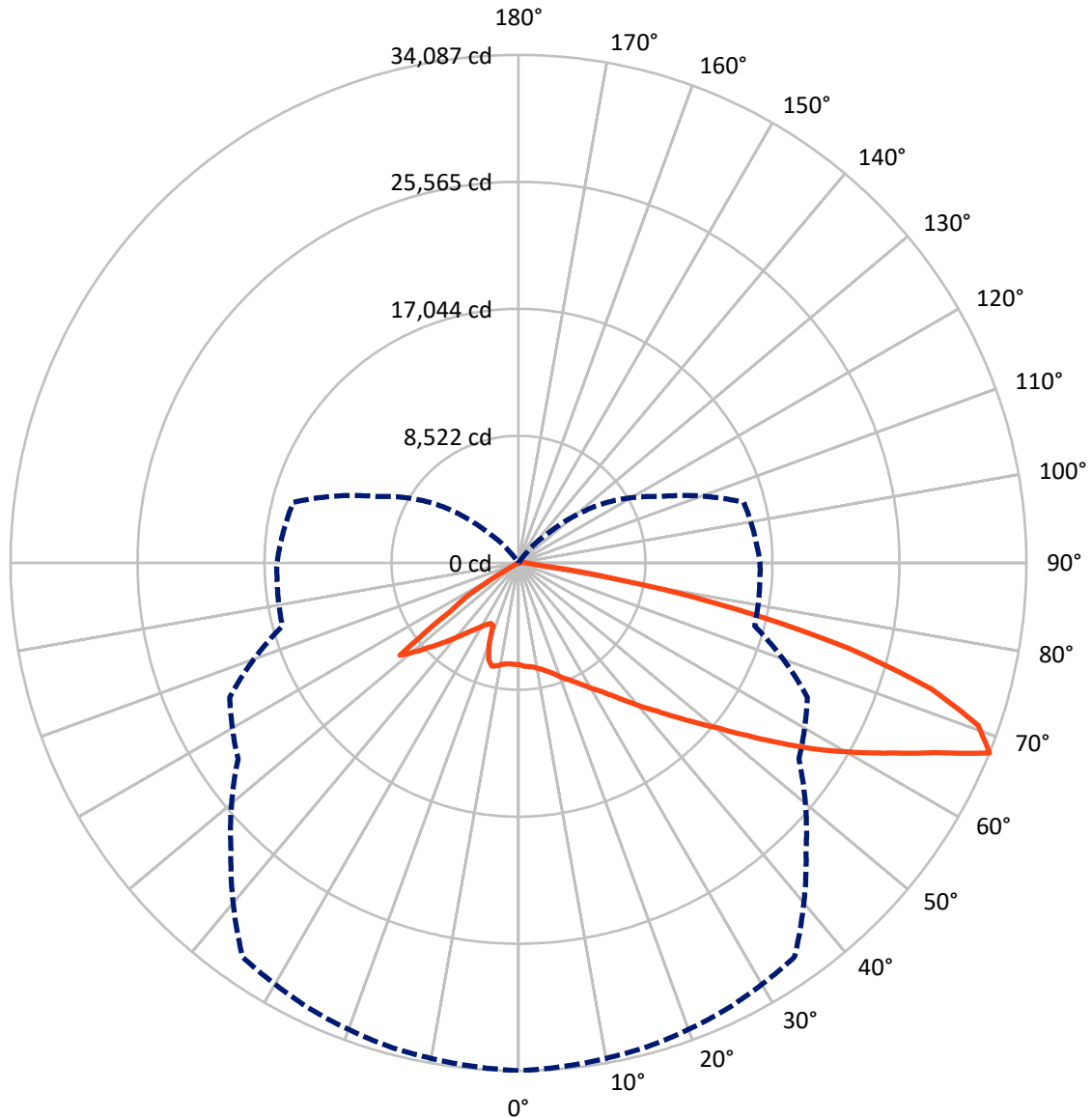
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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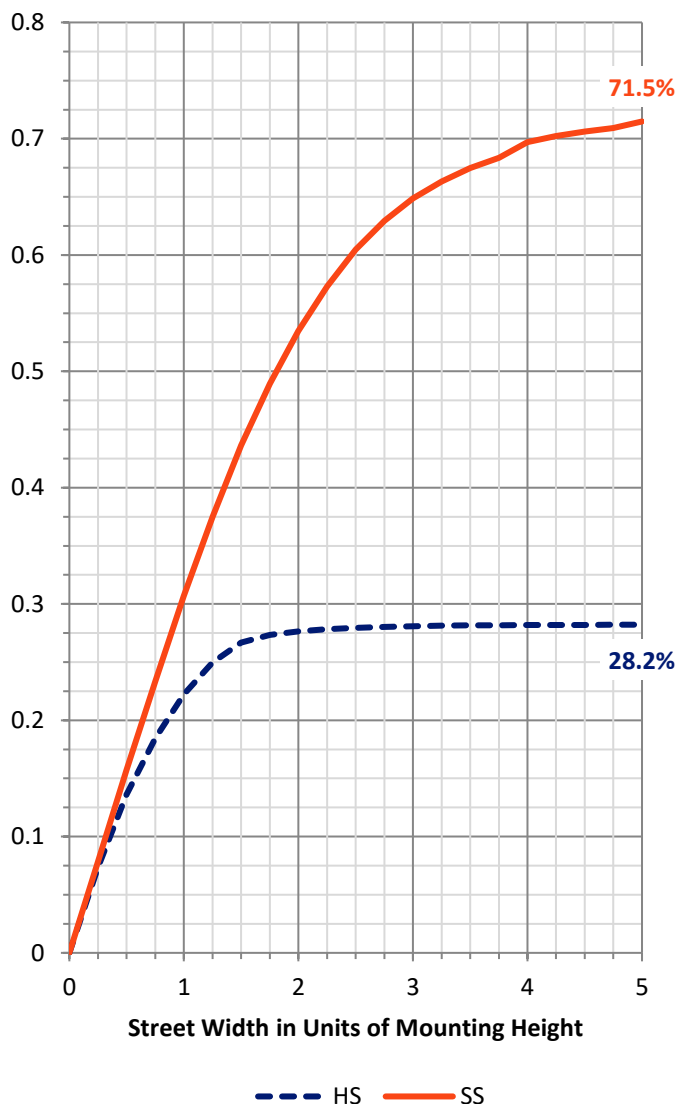
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16422.7	0.2	16422.9
	% Fixture	28.3	0.0	28.3
<b>Street Side</b>	Lumens	41448.3	73.8	41522.1
	% Fixture	71.5	0.1	71.7
<b>Total</b>	Lumens	57871.0	74.0	57945.0
	% Fixture	99.9	0.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	658.1	1.1
10°-20°	2026.0	3.5
20°-30°	3354.8	5.8
30°-40°	5281.0	9.1
40°-50°	8264.8	14.3
50°-60°	11933.0	20.6
60°-70°	14782.9	25.5
70°-80°	10766.1	18.6
80°-90°	804.3	1.4
90°-100°	63.2	0.1
100°-110°	10.5	0.0
110°-120°	0.3	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°	57871.0	99.9
0°-180°	57945.0	100.0

**Coefficient of Utilization**

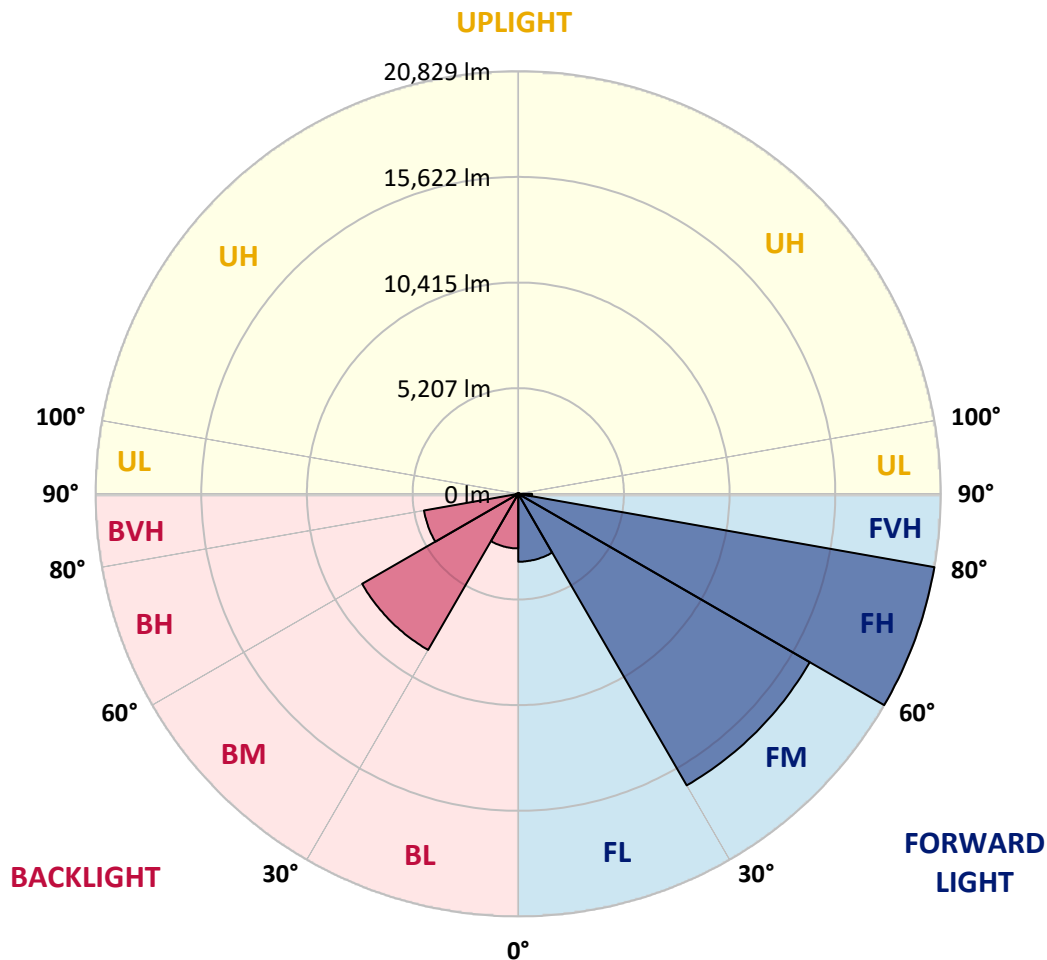


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3346.8	5.8			
FM (30°-60°)	16593.8	28.6			
FH (60°-80°)	20829.3	35.9			G5
FVH (80°-90°)	678.4	1.2			G4/750
BL (0°-30°)	2692.2	4.6	B4/5000		
BM (30°-60°)	8885.0	15.3	B5		
BH (60°-80°)	4719.7	8.1	B4/5000		G4/5000
BVH (80°-90°)	125.9	0.2			G2/225
UL (90°-100°)	63.2	0.1		U3/500	
UH (100°-180°)	10.9	0.0		U2/50	

**BUG Rating: B5-U3-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6824.4	6824.4	6824.4	6824.4	6824.4	6824.4	6824.4	6824.4	6824.4	6824.4	6824.4
2.5°	6949.3	6911.5	6911.5	6952.2	6838.9	6873.8	6827.3	6868.0	6844.8	6856.4	6870.9
5°	6990.0	6946.4	6949.3	6998.7	6897.0	6926.1	6870.9	6891.2	6870.9	6879.6	6879.6
7.5°	7065.5	7027.7	7027.7	7056.8	6955.1	6963.8	6914.5	6914.5	6888.3	6908.6	6891.2
10°	7207.8	7167.1	7146.8	7161.3	7071.3	7059.7	6992.9	6992.9	6952.2	6984.2	6958.0
12.5°	7379.1	7321.0	7315.2	7318.1	7216.5	7196.1	7120.6	7123.5	7048.0	7091.6	7059.7
15°	7585.3	7512.7	7506.9	7518.5	7411.0	7373.3	7289.1	7289.1	7204.9	7228.1	7184.5
17.5°	7849.5	7765.3	7750.8	7771.1	7663.7	7628.8	7530.1	7512.7	7419.8	7402.3	7364.6
20°	8198.0	8102.2	8073.2	8116.7	7980.2	7948.3	7829.2	7791.5	7666.6	7460.4	7190.3
22.5°	8511.7	8436.2	8418.7	8447.8	8322.9	8291.0	8174.8	8096.4	7794.4	7379.1	7129.4
25°	8868.9	8839.8	8831.1	8813.7	8700.4	8645.2	8534.9	8424.5	7739.2	7170.0	7164.2
27.5°	9310.3	9295.7	9255.1	9240.6	9115.7	9080.8	8935.6	8224.2	7541.7	7501.1	7477.8
30°	9792.3	9763.3	9722.6	9725.5	9641.3	9577.4	9231.9	8047.0	7922.1	7922.1	7861.2
32.5°	10326.7	10294.7	10254.1	10262.8	10227.9	10172.8	9133.1	8514.6	8418.7	8444.9	8369.4
35°	10988.8	10936.5	10922.0	10956.8	10959.7	10602.5	9307.4	9150.5	9075.0	9057.6	8773.0
37.5°	11761.3	11717.7	11770.0	11851.3	11758.3	10712.9	10001.4	9952.1	9876.5	9455.5	8781.7
40°	12687.6	12609.2	12673.1	12725.4	12664.4	11369.2	10730.3	10747.8	10681.0	9432.2	8685.9
42.5°	13605.3	13529.8	13585.0	13715.7	13692.4	12182.3	11619.0	11656.7	10983.0	9487.4	9429.3
45°	14740.8	14714.6	14697.2	14804.7	14894.7	13155.2	12673.1	12670.2	10768.1	10364.4	10312.1
47.5°	16027.2	15992.4	16001.1	16137.6	16274.1	14316.8	13918.9	12751.5	11322.7	11363.4	11316.9
50°	17461.8	17424.1	17537.3	17734.8	17804.5	15620.7	15132.8	12530.8	12478.5	12522.1	12443.7
52.5°	19282.6	19198.4	19372.7	19584.7	19674.7	17162.7	15199.6	13834.7	13747.6	13756.3	13506.6
55°	21353.2	21286.4	21443.2	21681.4	21814.9	18884.8	16587.7	15103.8	15051.5	13570.5	12220.1
57.5°	23603.8	23528.3	23737.4	23807.1	23841.9	20665.0	17984.5	16480.3	14061.2	12391.4	12315.9
60°	25810.9	25729.6	25993.8	26005.4	26107.1	22442.2	19311.7	17807.4	13547.2	13326.5	13262.6
62.5°	28128.3	28026.6	28258.9	28250.2	28049.9	24068.5	20627.2	19082.3	14464.9	14290.6	14191.9
65°	30701.2	30625.7	30788.3	30527.0	30129.1	25749.9	21992.1	20470.4	15533.6	15501.6	15478.4
67.5°	34087.3	33939.2	33611.0	33053.5	32292.6	27291.9	22967.8	21385.1	16401.9	16253.8	16207.3
70°	32725.3	32551.1	32301.3	31688.6	30913.2	25842.8	21399.7	20002.8	15336.1	15341.9	15231.5
72.5°	28976.2	28674.2	28439.0	27579.4	27152.5	22570.0	18646.7	17360.2	13265.5	13512.4	13460.1
75°	22857.5	22549.7	22163.4	21826.6	21780.1	18306.9	15034.1	14107.7	10576.4	10756.5	10887.1
77.5°	14816.3	14703.0	15190.9	14871.4	15158.9	12606.3	10739.0	9943.3	7289.1	7745.0	7684.0
80°	6780.9	6650.2	7434.3	7213.6	7321.0	6191.4	5247.6	5041.4	3299.0	3322.2	3391.9
82.5°	1533.3	1481.0	1536.2	1411.4	1376.5	1164.5	1025.1	929.3	583.7	618.6	650.5
85°	839.3	839.3	827.6	769.6	659.2	543.1	429.8	331.1	180.0	197.5	194.6
87.5°	589.5	575.0	572.1	511.1	438.5	371.7	296.2	212.0	101.6	69.7	63.9
90°	403.7	397.8	377.5	339.8	293.3	241.0	180.0	104.5	43.6	20.3	14.5
92.5°	293.3	287.5	273.0	241.0	200.4	162.6	119.1	69.7	34.8	14.5	2.9
95°	194.6	191.7	183.0	156.8	130.7	104.5	75.5	43.6	29.0	11.6	2.9
97.5°	133.6	130.7	122.0	104.5	84.2	66.8	46.5	31.9	23.2	8.7	2.9
100°	90.0	87.1	81.3	66.8	52.3	40.7	29.0	23.2	17.4	8.7	2.9
102.5°	58.1	55.2	49.4	40.7	29.0	23.2	20.3	17.4	11.6	5.8	2.9
105°	34.8	31.9	26.1	20.3	17.4	14.5	14.5	11.6	8.7	2.9	2.9
107.5°	17.4	14.5	11.6	11.6	11.6	8.7	8.7	8.7	5.8	2.9	0.0
110°	2.9	2.9	5.8	5.8	5.8	5.8	5.8	5.8	5.8	2.9	0.0



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 CATALOG NUMBER: CST-CA10-630-750-U-T5-HSS-HM-EX180

**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°	6824.4	6824.4	6824.4	6824.4	6824.4	6824.4	6824.4	6824.4	6824.4	6824.4
2.5°	6856.4	6809.9	6836.0	6795.4	6786.7	6743.1	6812.8	6821.5	6815.7	6827.3
5°	6865.1	6815.7	6844.8	6795.4	6795.4	6748.9	6815.7	6815.7	6798.3	6804.1
7.5°	6888.3	6838.9	6859.3	6804.1	6807.0	6751.8	6833.1	6824.4	6809.9	6830.2
10°	6955.1	6899.9	6897.0	6844.8	6856.4	6798.3	6899.9	6899.9	6885.4	6923.2
12.5°	7062.6	6981.2	6966.7	6902.8	6926.1	6876.7	7001.6	7007.4	7010.3	7071.3
15°	7175.8	7077.1	7091.6	7016.1	7007.4	6981.2	7094.5	7088.7	7085.8	7170.0
17.5°	7335.5	6870.9	6795.4	6743.1	6731.5	6667.6	6772.2	6972.5	6868.0	6809.9
20°	7082.9	6838.9	6539.8	6438.2	6417.9	5863.2	5424.7	5622.2	5889.3	5912.6
22.5°	6853.5	6766.3	6743.1	6583.4	5697.7	5511.8	5529.2	5456.6	4823.6	4547.7
25°	7138.1	7062.6	6963.8	5988.1	5779.0	5712.2	5691.9	4948.4	4448.9	4480.9
27.5°	7454.6	7370.4	6510.8	6002.6	6049.1	5956.1	5497.3	4617.4	4588.3	4643.5
30°	7849.5	7175.8	6354.0	6324.9	6368.5	6249.4	4884.5	4820.7	4811.9	4870.0
32.5°	8299.7	6920.3	6772.2	6772.2	6751.8	5465.4	5145.9	5102.3	5125.6	5186.6
35°	8131.2	7321.0	7303.6	7376.2	6888.3	5607.6	5564.1	5488.6	5506.0	5526.3
37.5°	7945.4	7980.2	7988.9	7951.2	5023.9	6014.2	5979.4	5964.8	5947.4	5953.2
40°	8636.5	8659.8	8651.1	8305.5	5421.8	6092.6	6449.8	6423.7	6420.8	6455.6
42.5°	9443.8	9507.7	9458.4	7326.8	5953.2	5122.7	6992.9	6978.3	6972.5	7045.1
45°	10352.8	10413.8	9377.1	7846.6	6519.5	5302.7	7030.6	7570.8	7614.3	7678.2
47.5°	11337.3	11325.6	8654.0	8645.2	7184.5	5802.2	5845.8	8279.3	8351.9	8375.2
50°	12469.8	10608.4	9475.8	9156.4	7936.7	6362.7	6197.2	7596.9	9199.9	9223.1
52.5°	12228.8	10495.1	10419.6	8032.5	8610.4	6981.2	6818.6	6775.1	9536.8	10097.3
55°	11398.2	11485.4	11377.9	8813.7	6313.3	7533.0	7431.4	7387.8	7094.5	5616.4
57.5°	12321.7	12347.9	12254.9	9531.0	6420.8	4695.8	7315.2	6275.6	4077.2	4056.9
60°	13280.0	13323.6	9127.3	7001.6	4115.0	1571.1	374.6	394.9	1126.8	990.3
62.5°	14194.8	14238.4	9661.6	6397.5	2599.1	116.2	75.5	52.3	58.1	58.1
65°	15388.4	15405.8	10341.2	6772.2	2700.7	29.0	8.7	0.0	0.0	0.0
67.5°	16006.9	15649.7	10512.5	6943.5	2773.3	17.4	5.8	0.0	0.0	0.0
70°	15071.8	14688.5	9786.5	6507.9	2584.6	14.5	2.9	0.0	0.0	0.0
72.5°	13280.0	13094.2	8784.6	5770.3	2288.4	8.7	2.9	0.0	0.0	0.0
75°	11006.2	10759.4	7283.3	4809.0	1893.4	5.8	0.0	0.0	0.0	0.0
77.5°	7829.2	7858.3	5076.2	3505.1	1289.4	5.8	0.0	0.0	0.0	0.0
80°	3426.7	3505.1	2224.5	1608.8	455.9	2.9	0.0	0.0	0.0	0.0
82.5°	653.4	601.1	290.4	229.4	58.1	0.0	0.0	0.0	0.0	0.0
85°	214.9	235.2	107.4	87.1	26.1	0.0	0.0	0.0	0.0	0.0
87.5°	75.5	95.8	31.9	26.1	5.8	0.0	0.0	0.0	0.0	0.0
90°	11.6	11.6	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: P579533  
 CATALOG NUMBER: CST-CA10-630-750-U-T5-HSS-HM-EX180

**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)