

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: P522178

Luminaire Tested: **CST-CA10-760-760-U-T5R-HSS-HM-EX180**

Issue Date: 5/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522178  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-894-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 5/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-CA10-760-760-U-T5R-HSS-HM-EX180  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (10) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 70228 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B5 - U2 - G5

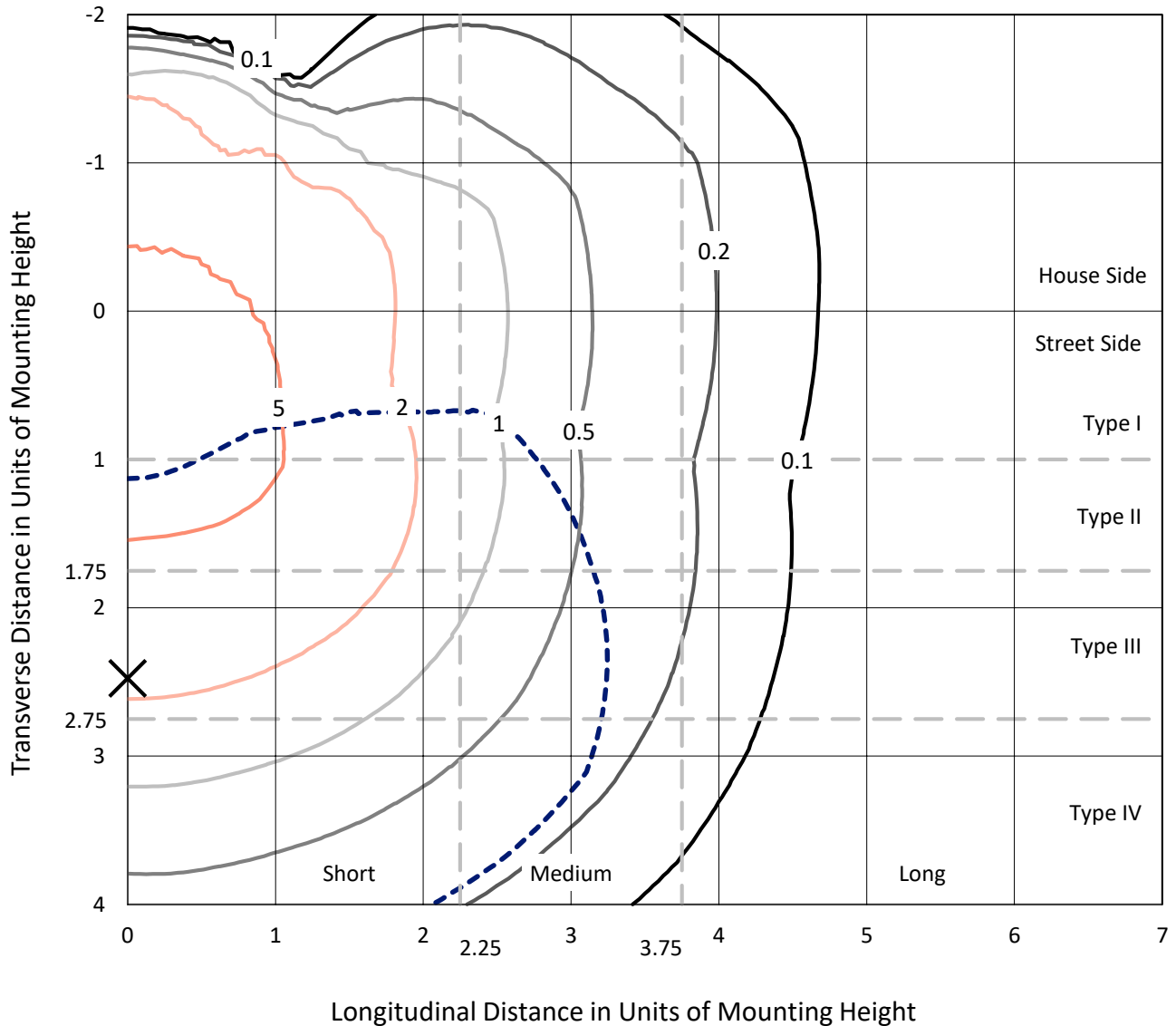
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

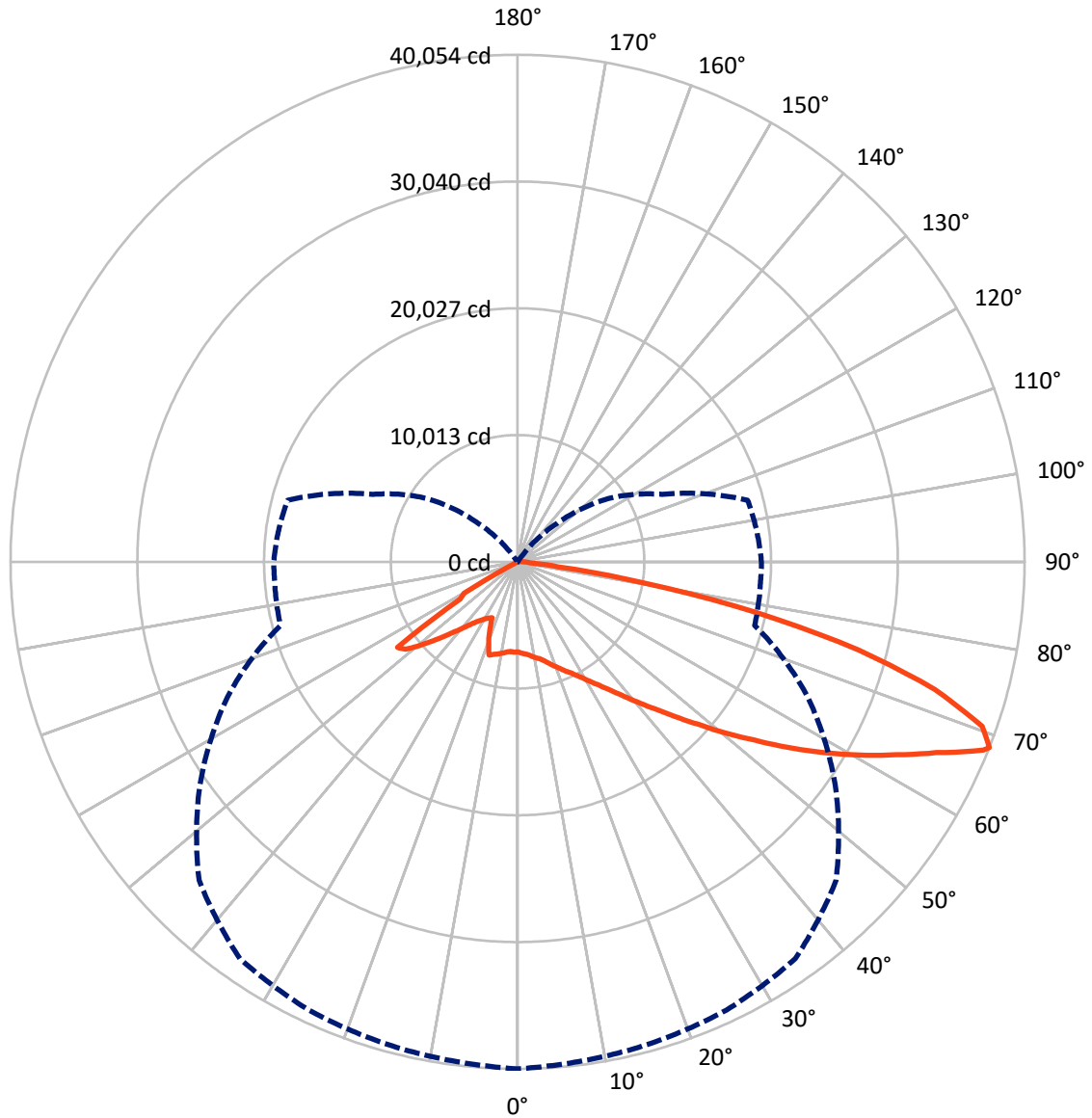
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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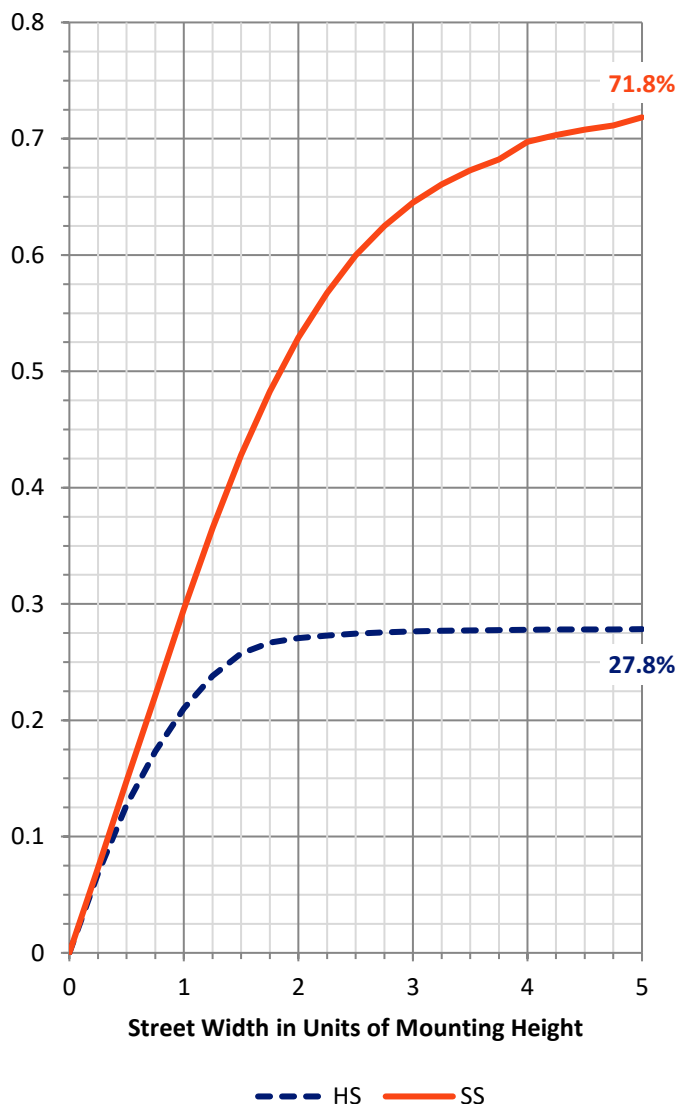
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19614.8	0.4	19615.2
	% Fixture	27.9	0.0	27.9
<b>Street Side</b>	Lumens	50572.6	40.2	50612.8
	% Fixture	72.0	0.1	72.1
<b>Total</b>	Lumens	70187.3	40.7	70228.0
	% Fixture	99.9	0.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	690.6	1.0
10°-20°	2188.1	3.1
20°-30°	3704.5	5.3
30°-40°	5868.7	8.4
40°-50°	9595.0	13.7
50°-60°	14697.1	20.9
60°-70°	18071.1	25.7
70°-80°	13963.4	19.9
80°-90°	1408.9	2.0
90°-100°	40.0	0.1
100°-110°	0.7	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°	70187.3	99.9
0°-180°	70228.0	100.0

**Coefficient of Utilization**

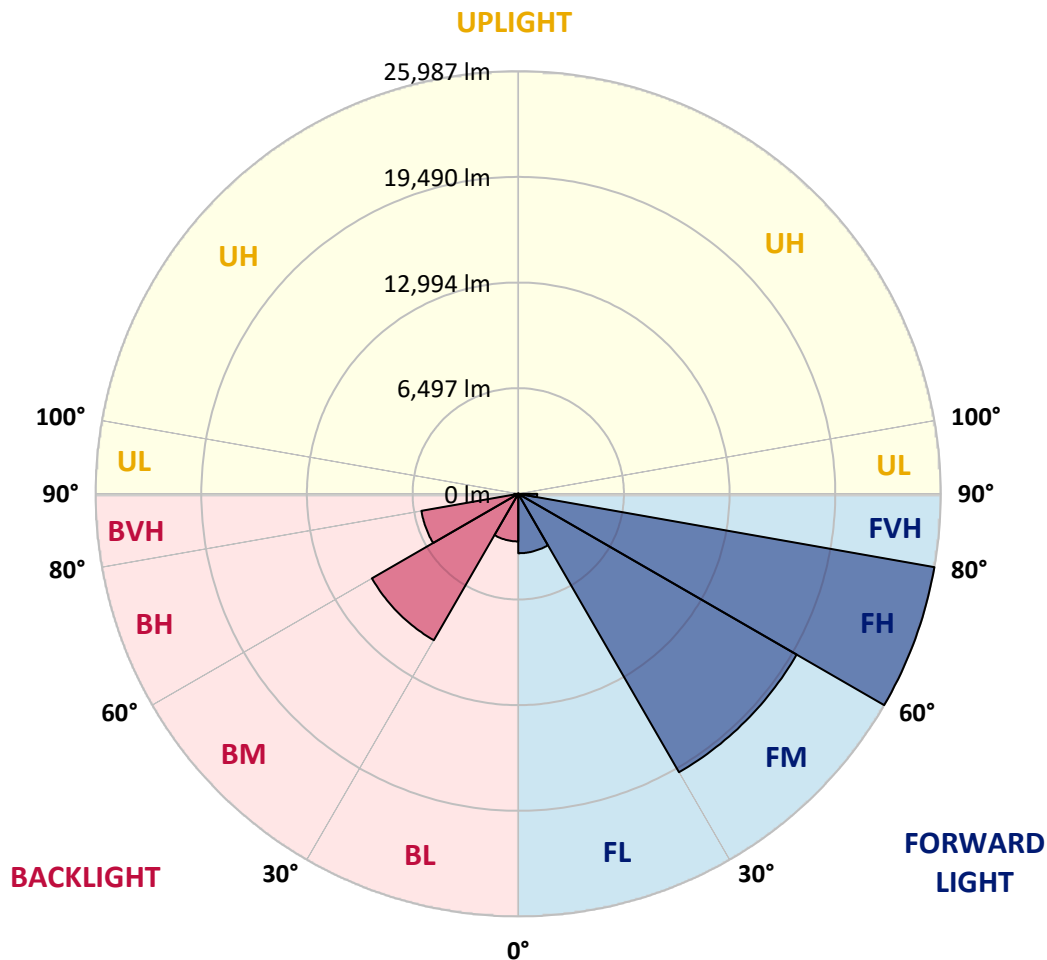


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3655.4	5.2			
FM	(30°-60°)	19768.0	28.1			
FH	(60°-80°)	25987.3	37.0			G5
FVH	(80°-90°)	1161.9	1.7			G5
BL	(0°-30°)	2927.7	4.2	B4/5000		
BM	(30°-60°)	10392.8	14.8	B5		
BH	(60°-80°)	6047.3	8.6	B5		G5
BVH	(80°-90°)	247.0	0.4			G3/500
UL	(90°-100°)	40.0	0.1		U2/50	
UH	(100°-180°)	0.7	0.0		U1/10	

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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7114.8	7114.8	7114.8	7114.8	7114.8	7114.8	7114.8	7114.8	7114.8	7114.8	7114.8
2.5°	7243.4	7229.9	7216.3	7246.8	7128.4	7179.1	7138.5	7175.7	7148.7	7179.1	7169.0
5°	7338.1	7324.6	7284.0	7317.8	7240.0	7260.3	7209.6	7223.1	7131.8	7185.9	7182.5
7.5°	7493.8	7456.5	7429.5	7429.5	7361.8	7358.4	7277.2	7280.6	7209.6	7202.8	7216.3
10°	7703.5	7676.5	7602.0	7608.8	7514.1	7500.5	7399.0	7395.6	7338.1	7304.3	7334.8
12.5°	7859.1	7886.2	7818.5	7818.5	7723.8	7656.2	7585.1	7537.7	7493.8	7443.0	7419.3
15°	8143.3	8170.4	8079.1	8075.7	8038.5	7957.3	7879.4	7777.9	7700.1	7676.5	7639.2
17.5°	8512.1	8495.2	8417.4	8420.8	8427.5	8295.6	8217.8	8085.8	7974.2	7893.0	7872.7
20°	8887.6	8887.6	8803.1	8830.1	8796.3	8674.5	8623.7	8441.1	8285.4	8197.5	8126.4
22.5°	9307.2	9290.2	9232.7	9290.2	9222.6	9100.8	9016.2	8833.5	8633.9	8136.6	7933.6
25°	9706.4	9696.2	9719.9	9736.8	9652.2	9500.0	9442.5	9249.6	8694.8	8041.8	7632.5
27.5°	10210.5	10176.6	10230.8	10264.6	10180.0	10048.1	9926.3	9709.8	8535.8	8021.5	7977.6
30°	10856.7	10782.2	10860.0	10877.0	10789.0	10707.8	10525.1	9442.5	8589.9	8441.1	8427.5
32.5°	11546.8	11458.9	11560.4	11573.9	11458.9	11391.2	10931.1	9303.8	9121.1	8948.5	8965.4
35°	12365.6	12365.6	12416.3	12423.1	12338.5	12223.5	10471.0	9980.4	9818.0	9659.0	9655.6
37.5°	13363.6	13333.1	13468.5	13549.7	13458.3	13130.2	11140.8	10910.8	10660.4	10457.4	10037.9
40°	14568.0	14622.1	14659.4	14740.6	14652.6	13915.1	12118.6	11858.1	11661.9	10981.8	9922.9
42.5°	15867.2	15880.7	15961.9	16063.4	16063.4	15285.2	13262.1	13038.8	12785.1	10738.2	10261.2
45°	17420.0	17389.6	17545.2	17707.6	17663.6	16858.4	14591.7	14425.9	13238.4	11445.3	11448.7
47.5°	19182.7	19145.5	19368.8	19581.9	19362.0	18604.2	16053.2	15924.7	12778.3	12643.0	12615.9
50°	21219.4	21128.0	21385.1	21669.3	21490.0	20552.9	17829.4	15359.7	14060.5	13952.3	13935.4
52.5°	23394.7	23323.7	23479.3	23963.1	23726.3	22592.9	19510.8	15846.9	15545.8	15424.0	15393.5
55°	25850.9	25712.2	26047.2	26415.9	26141.9	24849.5	21168.6	17464.0	17152.8	16943.0	16638.5
57.5°	28432.3	28232.7	28405.2	28868.7	28604.9	27160.2	23306.8	19128.5	18759.8	15525.5	14290.6
60°	31003.5	30912.2	30979.9	31389.2	31064.4	29406.7	25309.6	20796.5	15877.3	15356.3	15417.2
62.5°	33588.3	33388.7	33449.6	33869.1	33453.0	31544.8	27207.6	22312.1	16709.6	16526.9	16591.2
65°	36359.1	36122.3	36176.4	36298.2	35784.0	33463.1	28885.7	23743.2	17961.3	17768.5	17839.6
67.5°	39698.3	39481.8	39187.5	38825.5	38115.0	35499.8	30553.6	25248.7	19368.8	19260.5	19284.2
68°	40053.6	39843.8	39488.6	39058.9	38260.5	35584.4	30624.6	25292.7	19389.1	19253.7	19260.5
70°	38947.3	39072.4	38669.8	37949.2	37282.7	34346.1	29464.2	24318.4	18526.3	18326.7	18276.0
72.5°	34491.6	34765.6	34210.8	34089.0	33270.3	30597.6	25783.3	21100.9	16114.1	16178.4	15995.7
75°	27847.0	28249.6	27576.4	27613.6	27146.7	25522.8	21608.4	17568.9	13231.6	13526.0	13580.1
77.5°	19365.4	19943.9	19649.6	19943.9	19713.8	19128.5	16723.1	13529.4	10095.4	10433.8	10565.7
80°	10098.8	10785.6	11174.7	11296.5	11370.9	11347.2	10183.4	8119.7	5836.0	5961.2	5954.4
82.5°	3193.7	3028.0	3126.1	3099.0	3014.4	3048.3	2747.1	2148.3	1488.6	1640.8	1569.8
85°	964.2	971.0	943.9	937.1	866.1	761.2	622.5	358.6	175.9	206.4	192.8
87.5°	710.5	717.2	663.1	629.3	588.7	510.9	395.8	223.3	84.6	81.2	64.3
90°	392.4	378.9	351.9	324.8	307.9	263.9	199.6	84.6	30.4	23.7	20.3
92.5°	213.1	203.0	189.5	179.3	155.6	125.2	81.2	27.1	13.5	3.4	0.0
95°	98.1	91.3	88.0	77.8	67.7	47.4	27.1	16.9	10.1	3.4	0.0
97.5°	44.0	40.6	37.2	30.4	23.7	13.5	13.5	10.1	6.8	3.4	0.0
100°	10.1	10.1	6.8	6.8	6.8	6.8	6.8	6.8	6.8	3.4	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	7114.8	7114.8	7114.8	7114.8	7114.8	7114.8	7114.8	7114.8	7114.8	7114.8
2.5°	7158.8	7138.5	7128.4	7064.1	7084.4	7026.9	7138.5	7111.5	7094.5	7141.9
5°	7165.6	7094.5	7138.5	7101.3	7114.8	7033.6	7121.6	7084.4	7081.0	7101.3
7.5°	7182.5	7135.1	7179.1	7104.7	7138.5	7104.7	7169.0	7131.8	7162.2	7182.5
10°	7273.9	7246.8	7226.5	7209.6	7233.3	7165.6	7246.8	7250.2	7260.3	7321.2
12.5°	7402.4	7375.4	7341.5	7297.5	7321.2	7294.2	7355.1	7372.0	7409.2	7439.6
15°	7581.7	7531.0	7517.4	7476.8	7500.5	7487.0	7500.5	7490.4	7561.4	7551.3
17.5°	7828.7	7771.2	7578.3	7382.1	7256.9	7294.2	7449.8	7652.8	7703.5	7710.3
20°	7920.0	7514.1	7493.8	7270.5	7169.0	7162.2	6840.8	6360.4	6505.9	6847.6
22.5°	7811.8	7256.9	7199.4	7155.4	6722.4	6011.9	5944.3	5873.2	5856.3	5907.0
25°	7568.2	7503.9	7453.2	6878.0	6194.6	6198.0	6099.9	5633.0	4905.6	4844.7
27.5°	7940.3	7852.4	7361.8	6475.4	6461.9	6455.1	6309.6	5112.0	4956.4	4993.6
30°	8363.2	8217.8	6935.5	6820.5	6817.1	6756.2	5656.7	5156.0	5156.0	5162.7
32.5°	8850.4	7947.1	7179.1	7233.3	7229.9	6942.3	5463.8	5430.0	5416.5	5450.3
35°	9222.6	7730.6	7703.5	7801.6	7734.0	5890.1	5805.6	5775.1	5761.6	5744.7
37.5°	9107.5	8353.1	8353.1	8414.0	7869.3	6272.4	6231.8	6231.8	6204.8	6191.2
40°	9283.5	9127.8	9050.0	9073.7	5717.6	6735.9	6766.4	6759.6	6756.2	6779.9
42.5°	10210.5	10071.8	10000.7	9161.7	6401.0	6695.3	7439.6	7436.2	7446.4	7436.2
45°	11391.2	11262.6	11076.6	8573.0	7267.1	5869.8	8200.8	8238.1	8241.4	8238.1
47.5°	12629.4	12548.2	10643.5	9489.8	8207.6	6299.5	7838.8	9154.9	9138.0	9158.3
50°	13938.7	13573.4	10589.4	10575.8	9209.0	7010.0	7013.3	9956.7	10129.3	10183.4
52.5°	15396.9	12304.7	11736.3	10707.8	10224.0	7740.7	7666.3	8823.4	11178.1	11232.2
55°	14300.7	12998.2	12988.1	9530.4	10636.7	8444.4	8454.6	8373.4	10251.1	11651.7
57.5°	14229.7	14260.1	14236.5	10633.4	7761.0	7916.7	9212.4	9141.4	6637.8	5379.3
60°	15457.8	15501.8	13830.5	11482.5	8390.3	4868.4	5673.6	4821.0	4885.3	4936.1
62.5°	16631.8	16645.3	11249.1	7527.6	4157.9	196.2	94.7	77.8	74.4	74.4
65°	17930.9	17930.9	12057.7	8211.0	4015.8	74.4	13.5	10.1	37.2	37.2
67.5°	19186.1	18908.6	12649.7	8718.5	4086.9	10.1	0.0	0.0	0.0	0.0
68°	19115.0	18810.5	12595.6	8704.9	4076.7	6.8	0.0	0.0	0.0	0.0
70°	18052.7	17758.4	11949.4	8309.1	3924.5	6.8	0.0	0.0	0.0	0.0
72.5°	15934.8	15664.2	10582.6	7324.6	3538.8	3.4	0.0	0.0	0.0	0.0
75°	13488.8	13451.6	9141.4	6181.1	3034.7	3.4	0.0	0.0	0.0	0.0
77.5°	10853.3	10684.1	7145.3	4844.7	2446.0	0.0	0.0	0.0	0.0	0.0
80°	6045.8	6296.1	4181.6	2848.6	1539.4	0.0	0.0	0.0	0.0	0.0
82.5°	1634.1	1529.2	913.5	619.1	294.3	0.0	0.0	0.0	0.0	0.0
85°	209.8	230.1	104.9	84.6	20.3	0.0	0.0	0.0	0.0	0.0
87.5°	108.3	128.6	33.8	27.1	6.8	0.0	0.0	0.0	0.0	0.0
90°	20.3	23.7	10.1	3.4	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



REPORT NUMBER: P522178  
 CATALOG NUMBER: CST-CA10-760-760-U-T5R-HSS-HM-EX180

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)