

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: P579585

Luminaire Tested: **CST-CA10-630-760-U-T5N-HSS-HM-EX90**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579585  
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-CA10-630-760-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: 75829 lumens  
Efficiency: N/A  
Efficacy: 120.1 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U2 - G5

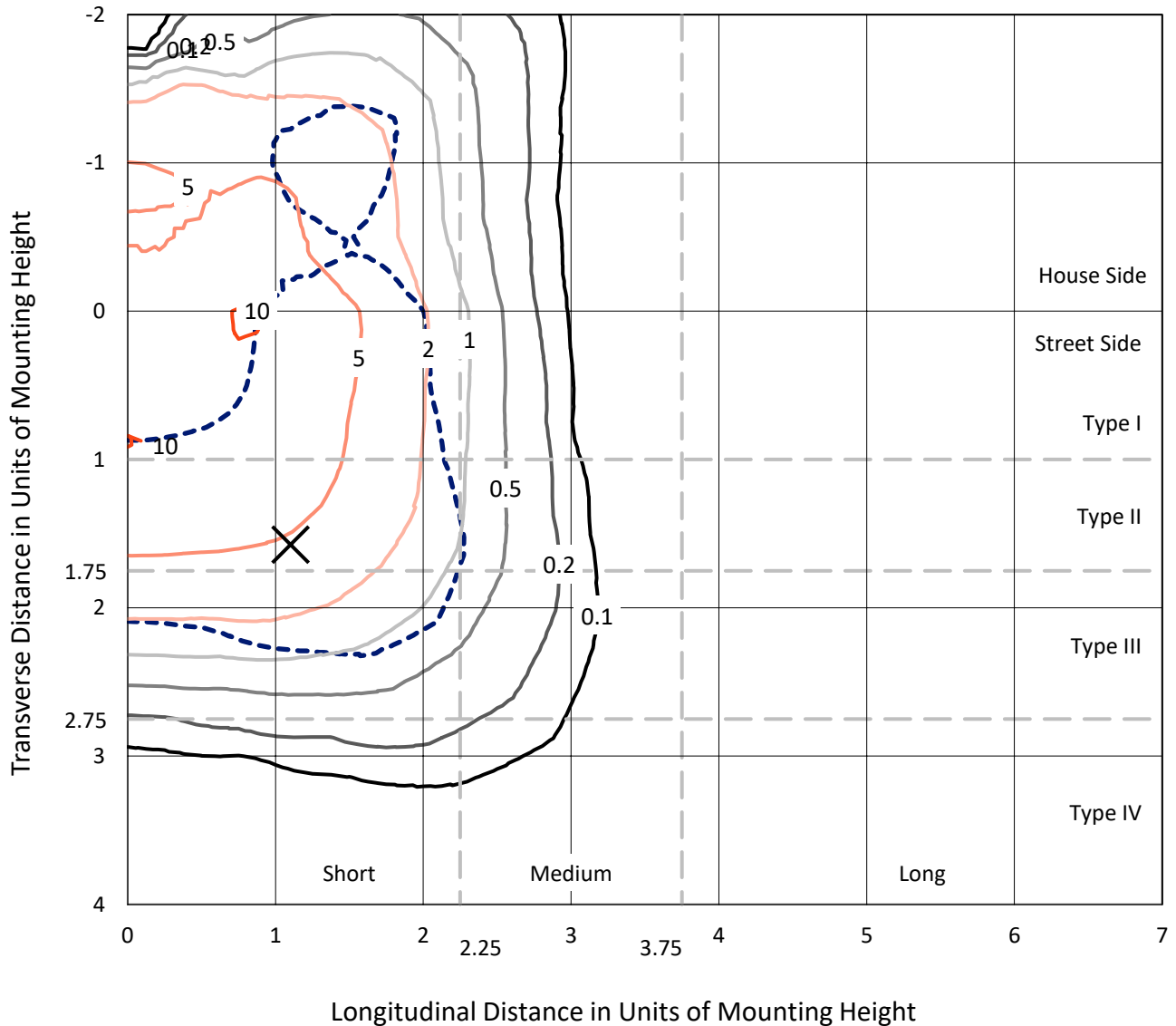
Input Watts (W): 631.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

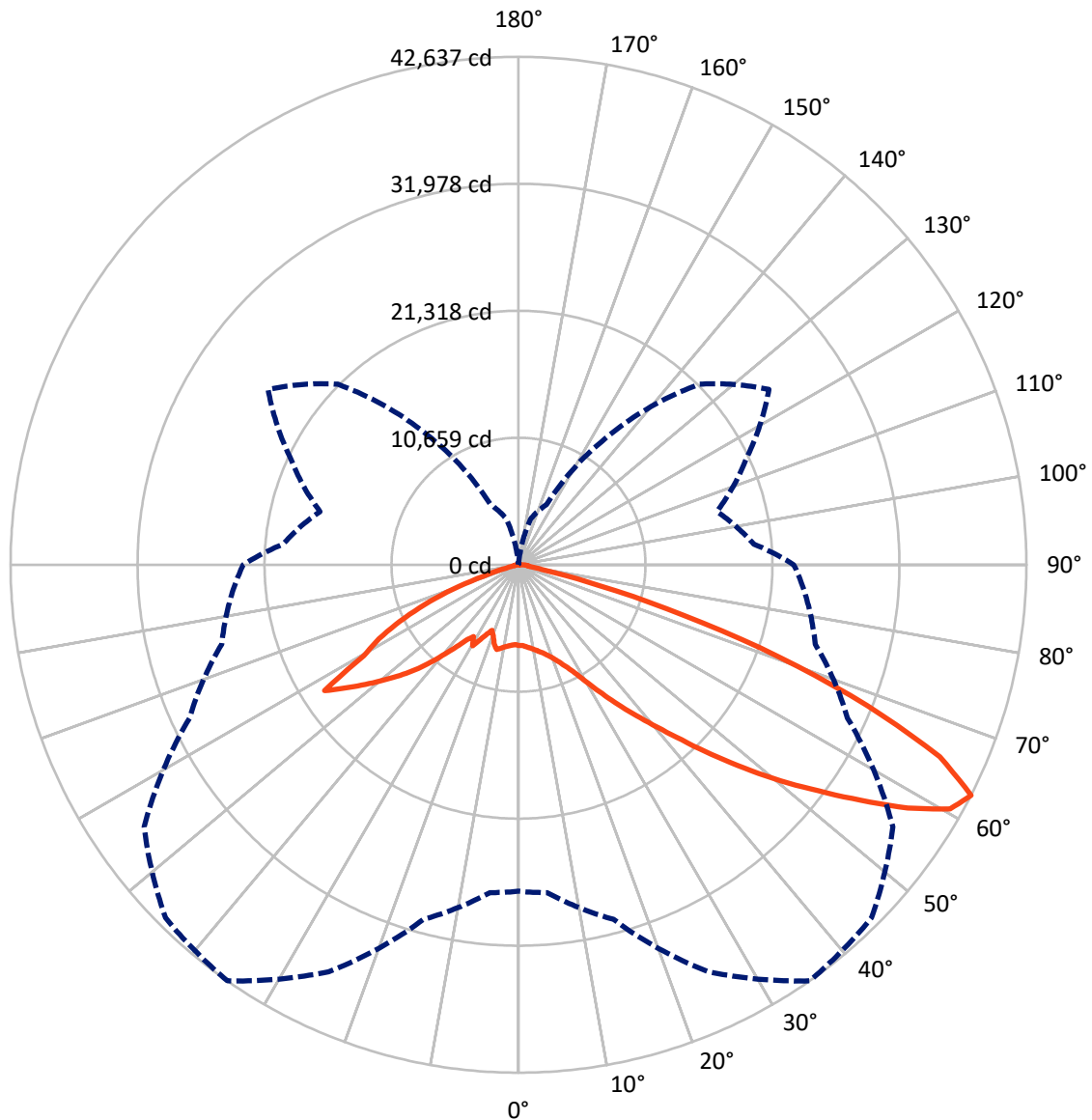
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.2 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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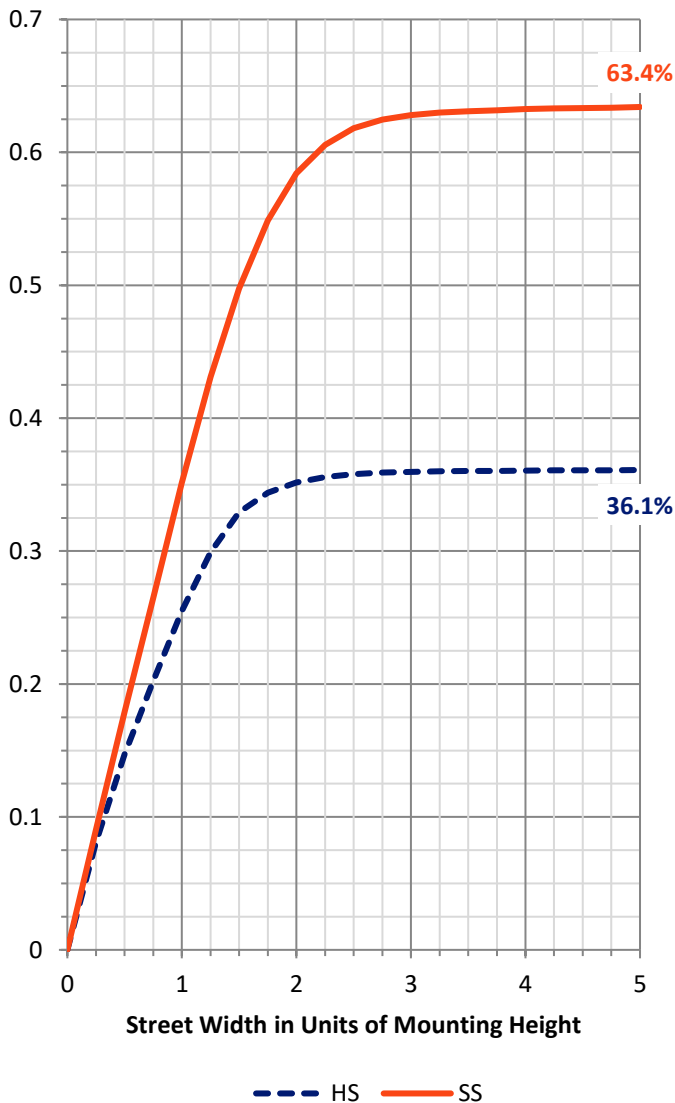
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	27524.1	0.1	27524.2
	% Fixture	36.3	0.0	36.3
<b>Street Side</b>	Lumens	48268.9	35.9	48304.8
	% Fixture	63.7	0.0	63.7
<b>Total</b>	Lumens	75793.0	36.0	75829.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	667.0	0.9
10°-20°	2155.9	2.8
20°-30°	4147.6	5.5
30°-40°	8274.0	10.9
40°-50°	15107.8	19.9
50°-60°	22576.3	29.8
60°-70°	18916.8	24.9
70°-80°	3540.1	4.7
80°-90°	407.5	0.5
90°-100°	32.4	0.0
100°-110°	3.5	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°	75793.0	100.0
0°-180°	75829.0	100.0

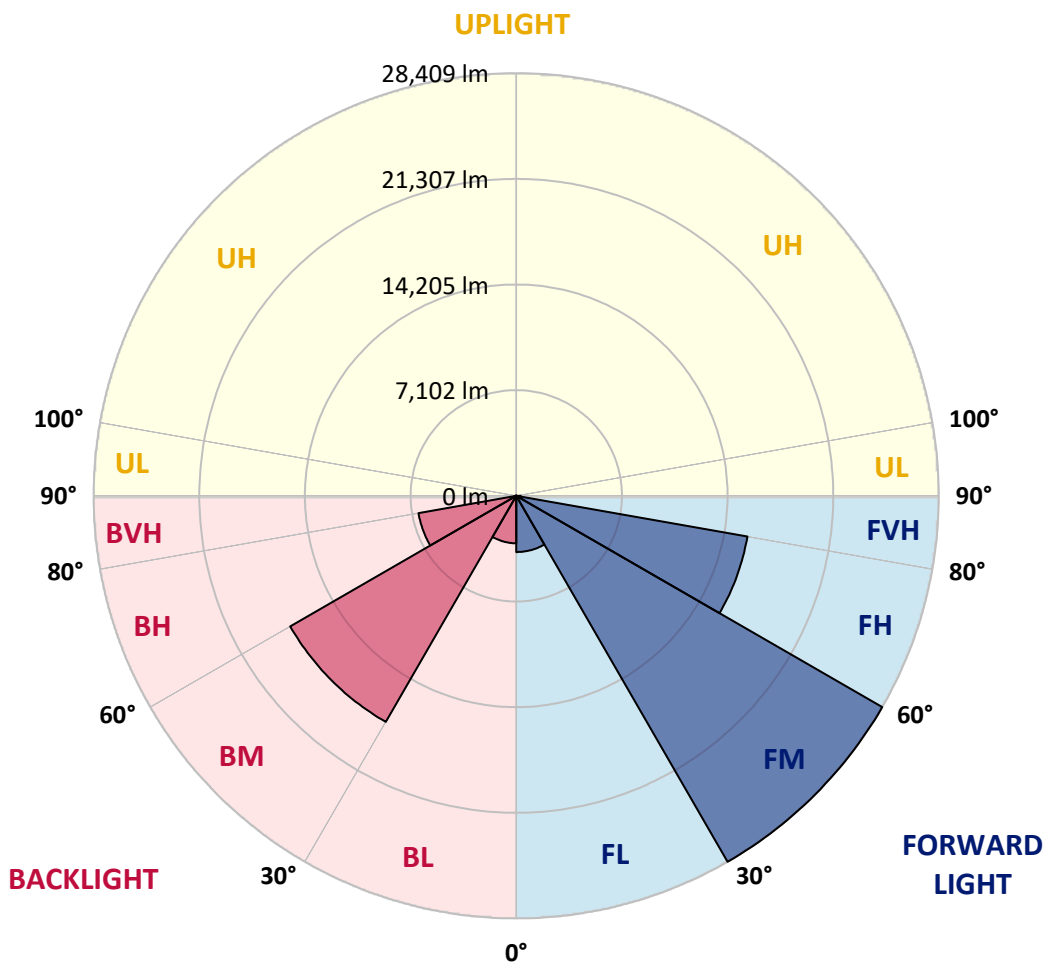


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3781.0	5.0			
FM (30°-60°)	28409.0	37.5			
FH (60°-80°)	15782.2	20.8			G5
FVH (80°-90°)	296.8	0.4			G3/500
BL (0°-30°)	3189.5	4.2	B4/5000		
BM (30°-60°)	17549.1	23.1	B5		
BH (60°-80°)	6674.8	8.8	B5		G5
BVH (80°-90°)	110.7	0.1			G2/225
UL (90°-100°)	32.4	0.0		U2/50	
UH (100°-180°)	3.6	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°	6784.9	6784.9	6784.9	6784.9	6784.9	6784.9	6784.9	6784.9	6784.9	6784.9	6784.9
2.5°	6929.9	6873.0	6881.6	6921.4	6796.3	6847.4	6793.4	6844.6	6827.6	6850.3	6867.3
5°	7029.4	6958.3	6964.0	7009.5	6912.8	6955.5	6901.5	6935.6	6907.1	6938.4	6941.2
7.5°	7165.8	7106.1	7097.6	7143.1	7060.6	7097.6	7043.6	7060.6	7032.2	7069.2	7057.8
10°	7347.7	7293.7	7279.5	7310.8	7245.4	7265.3	7208.4	7231.2	7188.5	7231.2	7211.3
12.5°	7549.5	7478.5	7481.3	7515.4	7450.0	7464.3	7418.8	7444.4	7393.2	7438.7	7424.5
15°	7788.3	7686.0	7705.9	7742.8	7680.3	7722.9	7668.9	7705.9	7657.5	7705.9	7688.8
17.5°	8098.1	7981.6	7995.8	8055.5	8004.3	8072.5	8010.0	8055.5	8032.7	8064.0	8058.3
20°	8490.4	8413.6	8399.4	8473.3	8399.4	8484.7	8450.6	8530.2	8535.9	8567.1	8581.3
22.5°	9013.4	8962.2	8928.1	8979.3	8913.9	8973.6	9021.9	9158.4	9209.5	9292.0	9297.6
25°	9709.8	9706.9	9630.2	9633.0	9550.6	9630.2	9766.6	9979.8	10116.3	10221.4	10181.6
27.5°	10650.6	10667.7	10551.2	10505.7	10409.0	10528.4	10809.8	11074.2	11321.5	11469.3	11469.3
30°	11878.6	11895.6	11725.1	11634.1	11546.0	11753.5	12088.9	12432.9	12785.3	12998.5	12950.2
32.5°	13504.5	13450.4	13206.0	13041.1	12890.5	13129.3	13515.8	13905.2	14385.6	14692.6	14655.6
35°	15477.1	15281.0	15036.5	14729.5	14405.5	14593.1	14956.9	15445.8	16113.8	16574.3	16457.8
37.5°	17768.1	17574.8	17157.0	16628.3	16062.7	16085.4	16372.5	17219.5	18055.2	18430.4	18350.8
40°	20147.2	19996.6	19612.9	18933.5	17910.2	17674.3	18146.2	19166.6	19965.3	20437.2	20303.6
42.5°	22571.9	22418.4	22128.4	21446.2	20090.4	19521.9	20013.7	21125.0	21977.8	22441.1	22287.6
45°	24990.8	24814.5	24584.3	23981.7	22688.4	21855.6	22131.3	23151.7	23930.5	24456.4	24140.9
47.5°	27116.9	27000.4	26844.0	26599.6	25468.3	24547.4	24527.5	25201.1	25738.3	26085.1	25698.5
50°	28967.4	28884.9	28973.0	28921.9	28509.7	27671.2	27156.7	27111.2	27284.6	27537.6	26986.2
52.5°	30627.3	30482.4	30809.3	31215.7	31519.9	31349.3	29683.6	28748.5	28558.0	28643.3	28018.0
55°	31986.0	31917.8	32466.4	33486.8	34893.8	35269.1	32278.8	30340.3	29638.2	29592.7	28882.1
57.5°	32816.0	32912.7	34009.8	35954.1	38535.0	38654.4	35465.2	32042.9	30689.9	30201.0	29382.3
60°	31494.3	31866.6	33739.8	37750.5	41624.8	41698.7	37804.5	32355.5	29376.7	28282.3	27267.6
62.5°	27406.8	27628.6	30814.9	37690.8	42636.7	41914.7	38361.6	30468.2	25792.3	24047.1	23109.1
65°	19305.9	19720.9	23134.7	33910.4	38853.4	38944.3	35192.3	26343.8	20596.4	18666.3	18060.9
67.5°	11659.7	12057.6	15693.1	24479.1	31585.2	32605.7	29356.8	19945.4	14769.3	12330.5	11719.4
70°	3786.1	4218.2	7151.6	14428.2	23234.1	25681.5	22091.5	12981.4	7734.3	5417.7	4761.1
72.5°	1438.3	1569.0	2328.0	6301.7	14470.9	17145.6	13663.6	6512.0	2396.2	1426.9	1253.5
75°	935.2	955.1	1088.7	2208.6	6978.2	9439.8	6585.9	1907.3	960.7	852.7	790.2
77.5°	804.4	818.6	875.5	1100.0	2222.8	3609.9	1890.2	975.0	801.6	710.6	668.0
80°	758.9	764.6	801.6	932.3	1040.3	1205.2	909.6	815.8	699.2	668.0	636.7
82.5°	719.1	739.0	758.9	847.0	844.2	866.9	730.5	639.6	594.1	625.3	614.0
85°	670.8	682.2	696.4	756.1	687.9	582.7	562.8	440.6	429.2	457.6	429.2
87.5°	471.8	500.3	483.2	508.8	477.5	372.4	315.5	250.1	199.0	164.9	159.2
90°	193.3	196.1	184.8	170.5	150.6	125.1	99.5	62.5	28.4	14.2	5.7
92.5°	150.6	150.6	145.0	130.8	113.7	93.8	71.1	39.8	19.9	8.5	2.8
95°	93.8	96.6	91.0	82.4	71.1	56.8	42.6	22.7	14.2	5.7	2.8
97.5°	59.7	59.7	54.0	48.3	39.8	28.4	19.9	17.1	11.4	5.7	0.0
100°	34.1	34.1	31.3	25.6	19.9	14.2	14.2	11.4	8.5	2.8	0.0
102.5°	19.9	19.9	14.2	11.4	8.5	8.5	8.5	8.5	5.7	2.8	0.0
105°	8.5	8.5	5.7	5.7	2.8	2.8	5.7	5.7	5.7	2.8	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.7	5.7	2.8	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.7	2.8	2.8



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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°	6784.9	6784.9	6784.9	6784.9	6784.9	6784.9	6784.9	6784.9	6784.9	6784.9
2.5°	6856.0	6804.8	6813.3	6765.0	6756.5	6708.2	6804.8	6816.2	6787.8	6813.3
5°	6935.6	6873.0	6892.9	6838.9	6830.4	6765.0	6850.3	6844.6	6821.9	6847.4
7.5°	7054.9	6989.6	7000.9	6941.2	6929.9	6858.8	6938.4	6912.8	6890.1	6921.4
10°	7222.7	7148.7	7154.4	7077.7	7086.2	6992.4	7089.1	7043.6	7015.2	7057.8
12.5°	7424.5	7342.0	7344.9	7265.3	7262.4	7171.5	7256.8	7231.2	7188.5	7253.9
15°	7686.0	7592.2	7583.6	7478.5	7450.0	7347.7	7427.3	7379.0	7350.6	7444.4
17.5°	8052.6	7947.5	7916.2	7788.3	7256.8	6949.8	7376.1	7521.1	7344.9	7316.5
20°	8541.5	8453.4	8382.4	8189.1	7296.6	6338.7	5630.9	5636.6	6381.3	6725.2
22.5°	9203.8	9098.7	8965.1	8689.4	6694.0	5937.9	5940.7	5932.2	5090.8	4735.5
25°	10110.6	9982.7	9709.8	8152.1	7106.1	6406.9	6389.8	5557.0	5093.7	5119.2
27.5°	11335.7	11074.2	9476.7	8831.5	7839.5	7015.2	6605.8	5593.9	5650.8	5690.6
30°	12893.3	11841.6	10241.3	9857.6	8720.6	7822.4	6108.4	6247.7	6361.4	6387.0
32.5°	14490.8	11875.7	11463.6	11057.1	9806.4	7117.5	6884.4	7148.7	7268.1	7282.3
35°	14476.6	13331.1	12799.5	12341.9	10812.7	7614.9	7762.7	8169.2	8473.3	8459.1
37.5°	15320.8	14937.0	14303.2	13723.3	9732.5	8578.5	8842.8	9303.3	9672.8	9661.5
40°	17085.9	16642.5	15971.7	14755.1	10775.7	9681.4	10050.9	10545.5	10807.0	10821.2
42.5°	18754.4	18387.8	17702.7	13785.9	12080.4	11008.8	11344.2	11676.8	11838.8	11889.9
45°	20414.4	20152.9	17873.3	15235.5	13657.9	12344.7	12566.4	12629.0	12799.5	12779.6
47.5°	21761.8	21471.8	17185.4	17054.7	15570.9	13612.5	13595.4	13513.0	13575.5	13589.7
50°	22992.5	19499.2	18566.8	19001.7	17577.7	14905.8	14581.7	14414.0	14328.8	14291.8
52.5°	23964.6	19504.9	19857.3	21014.2	19843.1	16309.9	15613.5	15141.7	13257.2	14732.4
55°	24791.8	20309.3	21079.6	23165.9	21795.9	17779.5	16545.9	15704.5	8848.5	7094.7
57.5°	25266.5	20920.4	22290.4	25181.2	23501.3	19413.9	15232.7	13171.9	5002.7	4997.0
60°	23433.1	19823.2	22256.3	26238.6	23009.6	15059.3	6202.2	5190.3	946.5	972.1
62.5°	19837.4	17245.1	21108.0	25658.7	21429.2	13248.6	5562.7	3996.5	31.3	25.6
65°	15369.1	13757.4	17773.8	22569.0	19496.3	11054.3	4147.1	2879.4	8.5	0.0
67.5°	10053.7	9695.6	13115.0	18714.7	15900.6	8564.3	2782.8	1378.6	5.7	0.0
70°	4286.4	4965.8	8308.5	13569.8	12171.3	5892.4	1341.6	497.4	2.8	0.0
72.5°	1199.5	1588.9	3698.0	7950.3	7654.7	3098.3	523.0	210.3	2.8	0.0
75°	710.6	611.1	1060.2	3172.2	3726.4	1088.7	241.6	162.0	2.8	0.0
77.5°	591.2	477.5	608.3	810.1	1128.5	392.3	204.7	145.0	0.0	0.0
80°	554.3	423.5	525.9	565.6	557.1	326.9	201.8	145.0	0.0	0.0
82.5°	525.9	369.5	434.9	434.9	466.2	301.3	190.4	142.1	0.0	0.0
85°	395.1	258.7	289.9	375.2	335.4	213.2	139.3	113.7	0.0	0.0
87.5°	150.6	93.8	113.7	119.4	96.6	48.3	11.4	11.4	0.0	0.0
90°	2.8	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: P579585  
 CATALOG NUMBER: CST-CA10-630-760-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)