

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: P579522

Luminaire Tested: **CST-CA10-210-750-U-T5-HSS-HM-EX90**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579522  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/18/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-CA10-210-750-U-T5-HSS-HM-EX90  
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: 28693 lumens  
Efficiency: N/A  
Efficacy: 134.8 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U2 - G4

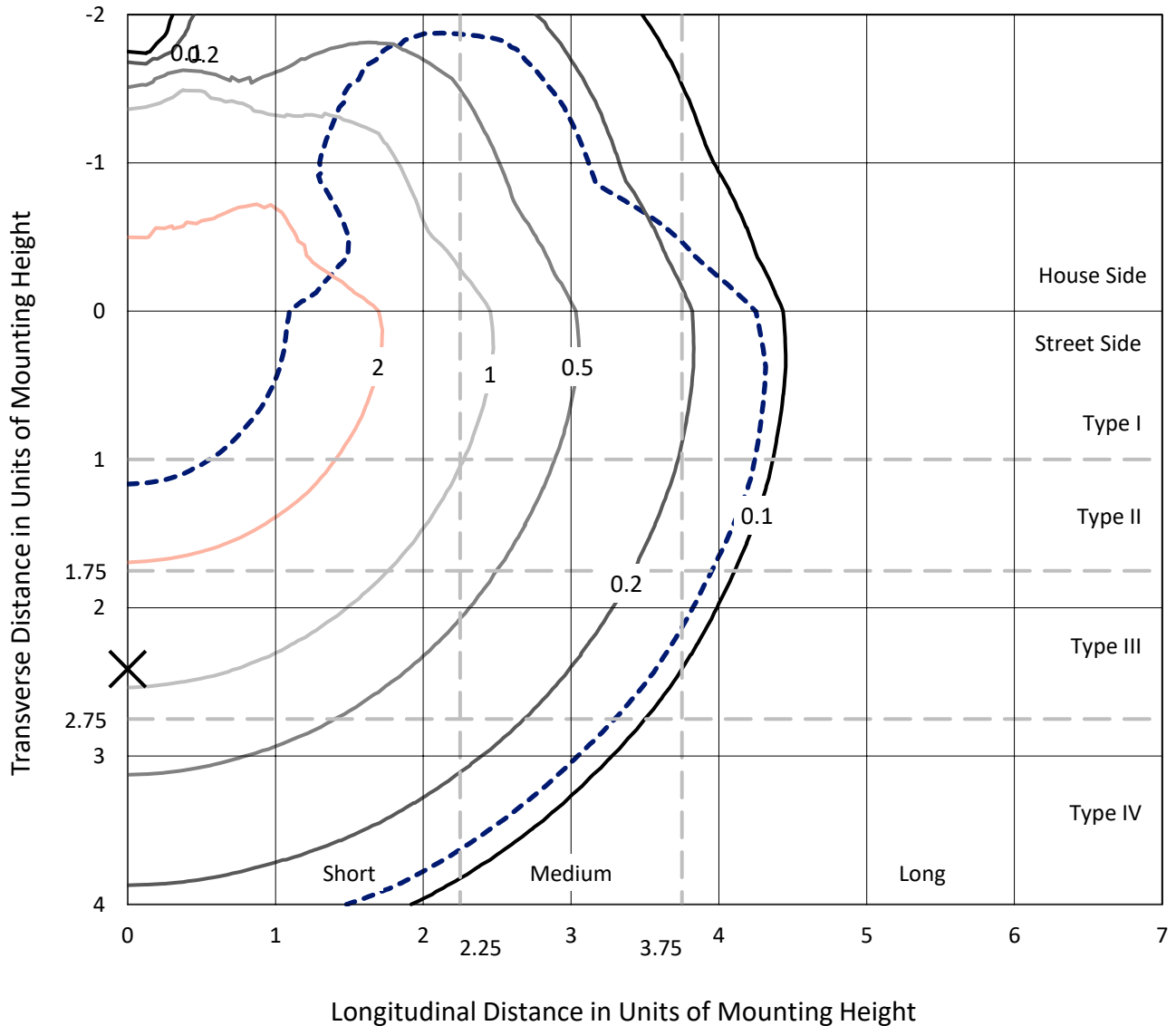
Input Watts (W): 212.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

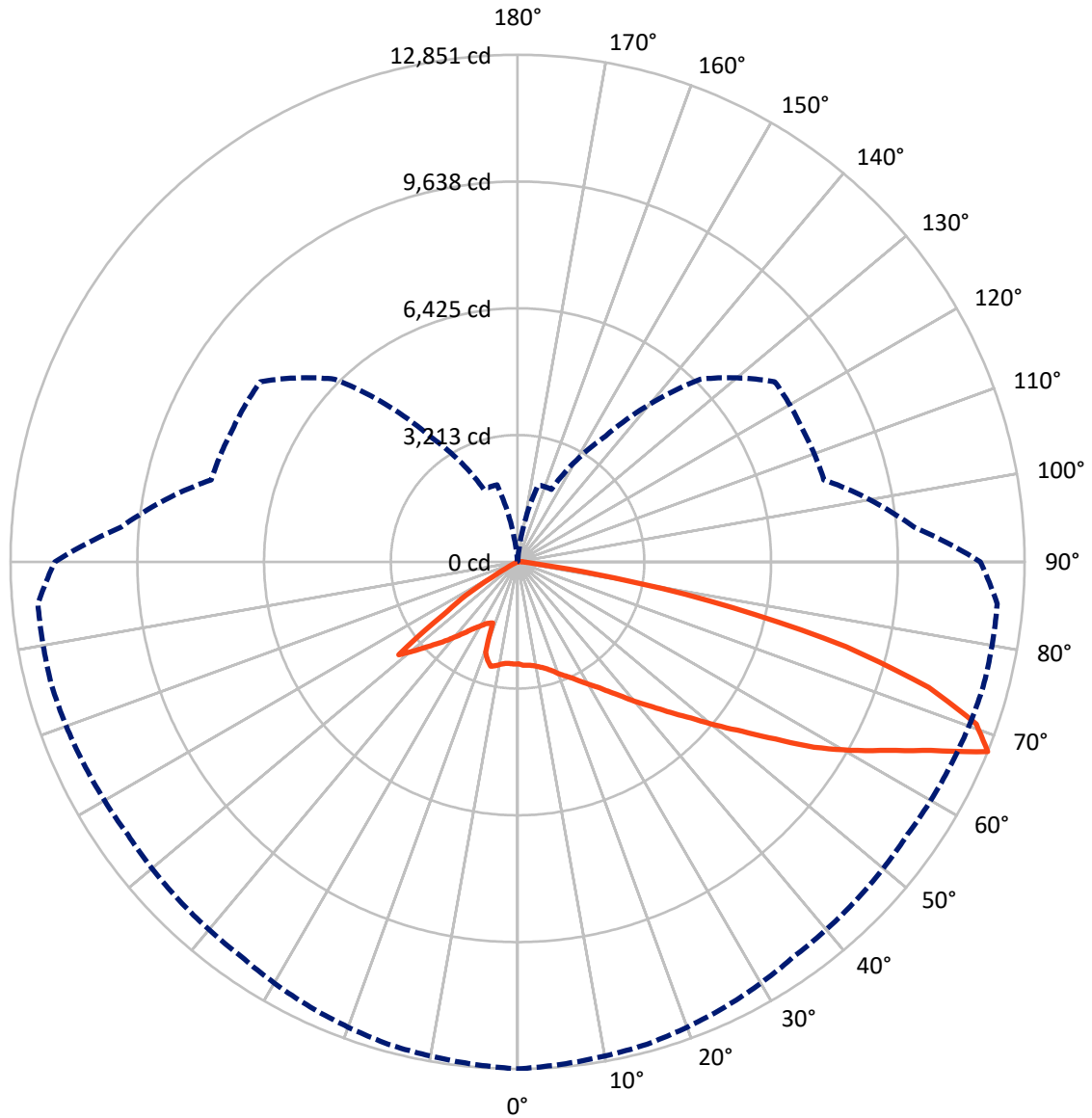
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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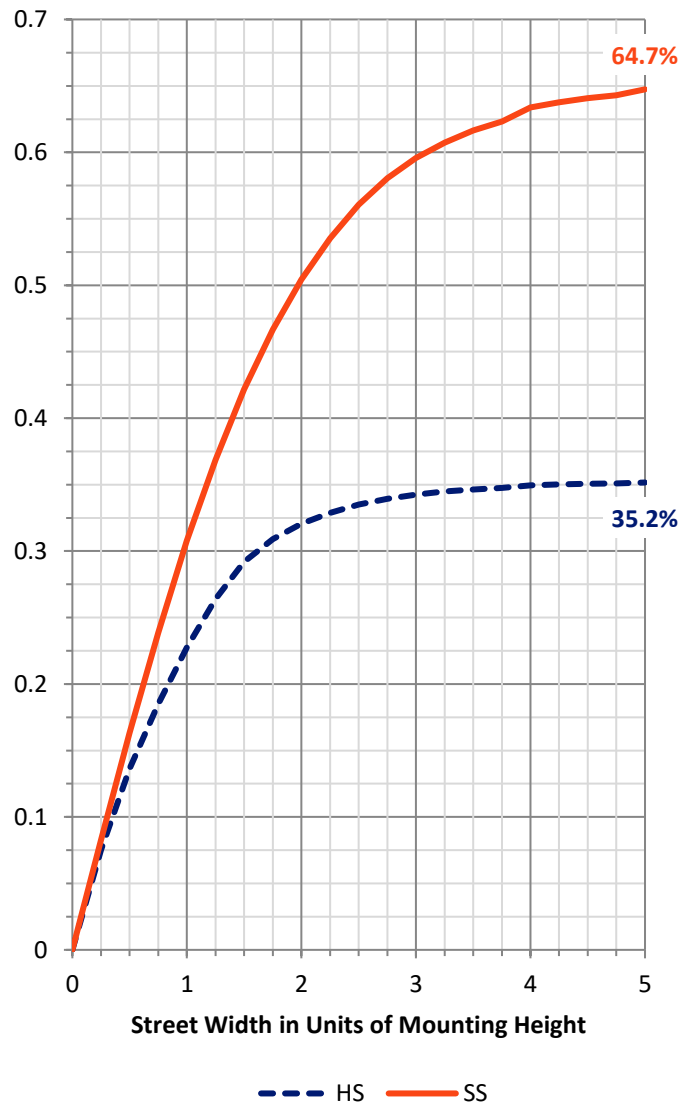
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10099.9	0.6	10100.5
	% Fixture	35.2	0.0	35.2
<b>Street Side</b>	Lumens	18572.3	20.2	18592.5
	% Fixture	64.7	0.1	64.8
<b>Total</b>	Lumens	28672.1	20.8	28693.0
	% Fixture	99.9	0.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.7	0.9
10°-20°	772.8	2.7
20°-30°	1339.8	4.7
30°-40°	2198.4	7.7
40°-50°	3667.0	12.8
50°-60°	5934.5	20.7
60°-70°	8191.5	28.5
70°-80°	5909.8	20.6
80°-90°	409.6	1.4
90°-100°	17.8	0.1
100°-110°	3.0	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°	28672.1	99.9
0°-180°	28693.0	100.0

**Coefficient of Utilization**

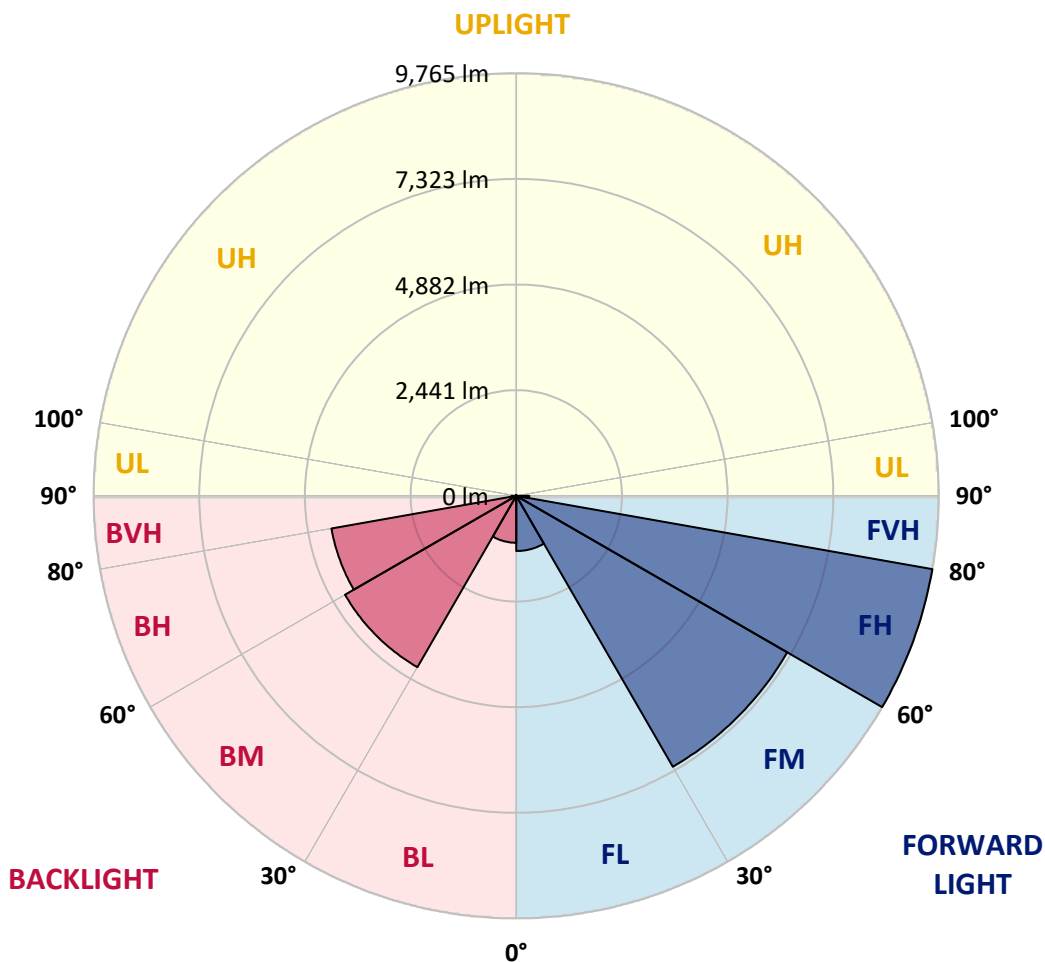


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1275.9	4.4			
FM	(30°-60°)	7229.9	25.2			
FH	(60°-80°)	9764.6	34.0			G4/12000
FVH	(80°-90°)	301.8	1.1			G3/500
BL	(0°-30°)	1085.4	3.8	B3/2500		
BM	(30°-60°)	4570.0	15.9	B3/5000		
BH	(60°-80°)	4336.8	15.1	B4/5000		G4/5000
BVH	(80°-90°)	107.8	0.4			G2/225
UL	(90°-100°)	17.8	0.1		U2/50	
UH	(100°-180°)	3.1	0.0		U1/10	

**BUG Rating: B4-U2-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7
2.5°	2625.3	2609.9	2611.0	2626.4	2584.6	2600.0	2582.4	2597.8	2590.1	2595.6	2602.2
5°	2633.0	2614.3	2616.5	2635.2	2602.2	2614.3	2593.4	2602.2	2595.6	2602.2	2603.3
7.5°	2652.7	2634.1	2635.2	2649.5	2615.4	2624.2	2604.4	2608.8	2597.8	2609.9	2606.6
10°	2694.5	2676.9	2670.3	2682.4	2652.7	2653.8	2630.8	2635.2	2618.7	2635.2	2628.6
12.5°	2750.5	2726.3	2728.5	2735.1	2698.9	2701.1	2673.6	2680.2	2652.7	2675.8	2668.1
15°	2818.6	2789.0	2792.2	2803.2	2768.1	2764.8	2739.5	2739.5	2715.4	2732.9	2725.2
17.5°	2913.1	2880.1	2877.9	2885.6	2857.1	2857.1	2828.5	2825.2	2801.0	2815.3	2813.1
20°	3036.1	2998.8	2992.2	3006.4	2970.2	2974.6	2938.3	2935.0	2908.7	2917.5	2918.6
22.5°	3147.0	3117.4	3116.3	3138.3	3095.4	3100.9	3068.0	3059.2	3037.2	3049.3	3052.6
25°	3274.5	3270.1	3266.8	3274.5	3231.6	3231.6	3208.6	3200.9	3186.6	3195.4	3204.2
27.5°	3434.8	3432.6	3423.9	3425.0	3388.7	3394.2	3368.9	3364.5	3357.9	3356.9	3352.5
30°	3611.7	3601.8	3589.7	3597.4	3580.9	3586.4	3564.5	3550.2	3548.0	3549.1	3542.5
32.5°	3808.3	3795.1	3787.4	3800.6	3807.2	3822.6	3821.5	3781.9	3781.9	3798.4	3768.8
35°	4052.2	4031.3	4037.9	4055.5	4068.6	4108.2	4101.6	4074.1	4082.9	4090.6	4055.5
37.5°	4338.9	4324.6	4354.2	4387.2	4388.3	4444.3	4431.1	4437.7	4436.6	4426.7	4403.7
40°	4682.7	4659.6	4690.4	4715.6	4700.2	4767.3	4765.1	4794.7	4814.5	4848.5	4835.4
42.5°	5024.3	5006.7	5036.4	5091.3	5082.5	5159.4	5170.4	5216.5	5244.0	5296.7	5265.9
45°	5445.0	5435.1	5462.6	5505.4	5535.1	5637.2	5677.9	5697.6	5766.8	5830.5	5759.2
47.5°	5916.2	5929.4	5925.0	6003.0	6068.9	6193.0	6209.5	6273.2	6333.6	6403.9	6334.7
50°	6502.8	6480.8	6500.6	6575.3	6682.9	6773.0	6857.6	6948.8	7008.1	7080.6	6953.2
52.5°	7134.4	7153.1	7197.0	7312.4	7391.4	7498.0	7574.9	7683.6	7741.8	7804.5	7638.6
55°	7930.8	7946.2	7994.5	8113.1	8169.1	8290.0	8342.7	8451.4	8507.5	8534.9	8322.9
57.5°	8864.5	8812.8	8852.4	8913.9	9000.7	9131.4	9145.7	9247.8	9247.8	9283.0	9012.7
60°	9698.2	9663.0	9704.8	9792.6	9826.7	9945.3	9933.2	10016.7	10038.7	10012.3	9689.4
62.5°	10519.8	10526.4	10580.2	10608.8	10595.6	10665.9	10694.5	10782.3	10746.1	10754.9	10382.5
65°	11517.2	11532.6	11527.1	11474.4	11355.7	11494.1	11486.4	11625.9	11634.7	11713.8	11281.0
67.5°	12850.7	12782.6	12658.5	12446.5	12211.4	12130.1	12058.7	12127.9	12216.9	12202.6	11728.1
70°	12332.2	12221.3	12156.5	11972.0	11657.8	11495.2	11346.9	11359.0	11488.6	11500.7	11015.2
72.5°	10902.1	10846.1	10596.7	10435.2	10219.9	10094.7	9915.7	9956.3	10125.5	10154.0	9767.4
75°	8599.7	8548.1	8322.9	8270.2	8163.6	8225.2	8181.2	8197.7	8333.9	8208.7	7976.9
77.5°	5565.8	5577.9	5542.8	5662.5	5658.1	5661.4	5821.8	5838.2	5971.2	5894.3	5670.2
80°	2495.7	2531.9	2617.6	2791.2	2685.7	2742.8	2804.3	2785.7	2919.7	2616.5	2725.2
82.5°	505.3	522.9	493.2	515.2	481.1	498.7	524.0	485.5	481.1	446.0	414.1
85°	260.3	263.6	262.5	257.0	226.3	208.7	201.0	169.2	152.7	149.4	138.4
87.5°	169.2	171.4	165.9	164.8	145.0	132.9	118.6	100.0	83.5	58.2	48.3
90°	103.3	103.3	97.8	92.3	82.4	73.6	59.3	42.8	25.3	9.9	5.5
92.5°	69.2	69.2	67.0	63.7	57.1	49.4	38.4	25.3	12.1	4.4	2.2
95°	43.9	43.9	42.8	41.7	37.3	31.9	24.2	15.4	7.7	3.3	1.1
97.5°	28.6	28.6	28.6	27.5	25.3	22.0	16.5	9.9	5.5	2.2	1.1
100°	17.6	18.7	17.6	17.6	16.5	14.3	11.0	6.6	4.4	2.2	1.1
102.5°	9.9	9.9	11.0	11.0	9.9	8.8	6.6	5.5	3.3	2.2	1.1
105°	4.4	4.4	5.5	5.5	5.5	4.4	4.4	3.3	2.2	2.2	1.1
107.5°	1.1	1.1	1.1	2.2	3.3	3.3	3.3	3.3	2.2	1.1	1.1
110°	0.0	0.0	0.0	1.1	1.1	2.2	2.2	2.2	2.2	1.1	1.1



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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°	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7	2585.7
2.5°	2595.6	2582.4	2592.3	2575.9	2571.5	2557.2	2584.6	2589.0	2586.8	2591.2
5°	2597.8	2581.3	2593.4	2577.0	2575.9	2560.5	2589.0	2590.1	2582.4	2585.7
7.5°	2604.4	2589.0	2597.8	2579.2	2581.3	2562.7	2595.6	2594.5	2590.1	2597.8
10°	2628.6	2611.0	2614.3	2594.5	2600.0	2580.2	2620.9	2623.1	2618.7	2633.0
12.5°	2670.3	2646.2	2653.8	2630.8	2635.2	2615.4	2664.8	2668.1	2668.1	2691.2
15°	2727.4	2702.2	2718.7	2689.0	2690.1	2660.4	2697.8	2697.8	2702.2	2734.0
17.5°	2810.9	2780.2	2802.1	2774.7	2603.3	2538.5	2665.9	2743.9	2614.3	2603.3
20°	2914.2	2899.9	2912.0	2866.9	2589.0	2292.5	2061.8	2049.7	2305.6	2433.1
22.5°	3040.5	3026.2	3031.7	2974.6	2311.1	2102.4	2099.1	2077.2	1757.5	1669.6
25°	3188.8	3181.1	3169.0	2690.1	2389.1	2189.2	2162.8	1876.1	1692.7	1709.2
27.5°	3348.1	3325.0	2917.5	2794.4	2508.8	2276.0	2126.6	1752.0	1745.4	1760.8
30°	3526.0	3404.1	2986.7	2944.9	2648.4	2383.6	1850.9	1828.9	1828.9	1853.1
32.5°	3752.3	3178.9	3178.9	3156.9	2820.8	2092.5	1948.6	1935.5	1950.8	1960.7
35°	3718.2	3419.5	3454.6	3444.7	3054.8	2131.0	2105.7	2083.8	2087.0	2087.0
37.5°	3729.2	3741.3	3783.0	3740.2	2664.8	2297.9	2257.3	2252.9	2256.2	2263.9
40°	4074.1	4080.7	4096.1	4001.6	2863.6	2492.4	2436.4	2425.4	2436.4	2452.8
42.5°	4445.4	4464.1	4481.7	3639.2	3141.6	2713.2	2657.1	2636.3	2656.0	2673.6
45°	4884.8	4913.3	4644.2	3961.0	3455.7	2964.7	2905.4	2880.1	2892.2	2907.6
47.5°	5379.1	5424.1	4379.5	4370.7	3824.8	3262.4	3194.3	3145.9	3164.6	3163.5
50°	5937.1	5183.6	4838.7	4833.2	4236.7	3594.1	3523.8	3479.9	3494.2	3483.2
52.5°	6540.1	5325.3	5336.2	5335.2	4667.3	3951.1	3886.3	3831.4	3718.2	3822.6
55°	7157.5	5815.2	5856.9	5850.3	5118.8	4320.2	4251.0	4199.4	2743.9	2317.7
57.5°	7771.5	6327.0	6340.2	6355.6	5586.7	4676.1	4371.8	4015.9	1565.3	1557.6
60°	8377.8	6814.8	6841.1	6849.9	5839.3	3870.9	1787.2	1820.1	473.4	565.7
62.5°	9006.2	7295.9	7320.0	7312.4	6090.9	3599.6	1877.2	1839.9	43.9	40.6
65°	9808.0	7898.9	7864.9	7839.6	6487.4	3841.3	2016.7	2006.9	14.3	9.9
67.5°	10089.2	8036.2	7967.0	7958.2	6544.5	3892.9	2027.7	2020.0	14.3	9.9
70°	9452.1	7514.5	7395.8	7399.1	6089.8	3641.3	1891.5	1880.5	13.2	9.9
72.5°	8277.9	6636.8	6587.4	6325.9	5273.6	3203.1	1677.3	1635.6	13.2	8.8
75°	6796.1	5361.5	5251.7	4958.4	4197.2	2546.2	1317.0	1263.2	12.1	7.7
77.5°	4717.8	3760.0	3550.2	3251.4	2807.6	1688.3	885.3	816.1	11.0	7.7
80°	2138.7	1543.3	1551.0	1188.5	952.4	572.3	281.2	254.8	9.9	6.6
82.5°	372.4	274.6	258.1	249.3	207.6	140.6	85.7	73.6	8.8	4.4
85°	129.6	104.4	115.3	136.2	120.8	84.6	52.7	50.5	5.5	2.2
87.5°	43.9	46.1	53.8	64.8	57.1	33.0	19.8	14.3	1.1	0.0
90°	4.4	5.5	5.5	5.5	3.3	0.0	0.0	0.0	0.0	0.0
92.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P579522  
 CATALOG NUMBER: CST-CA10-210-750-U-T5-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)