

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: P579573

Luminaire Tested: **CST-CA10-210-760-U-T5N-HSS-HM-EX90**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579573  
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-CA10-210-760-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: 28683 lumens  
Efficiency: N/A  
Efficacy: 134.7 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U2 - G4

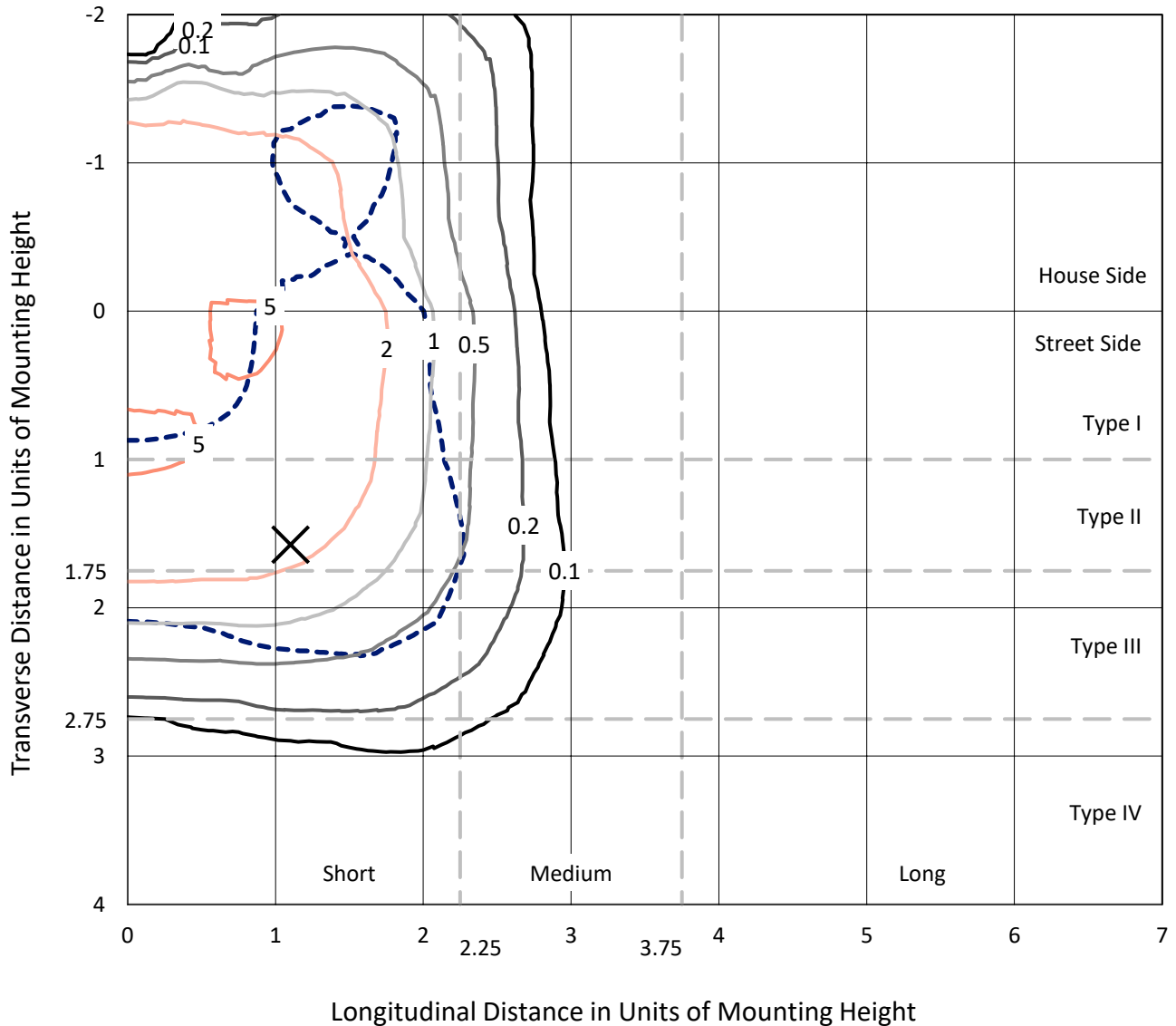
Input Watts (W): 212.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

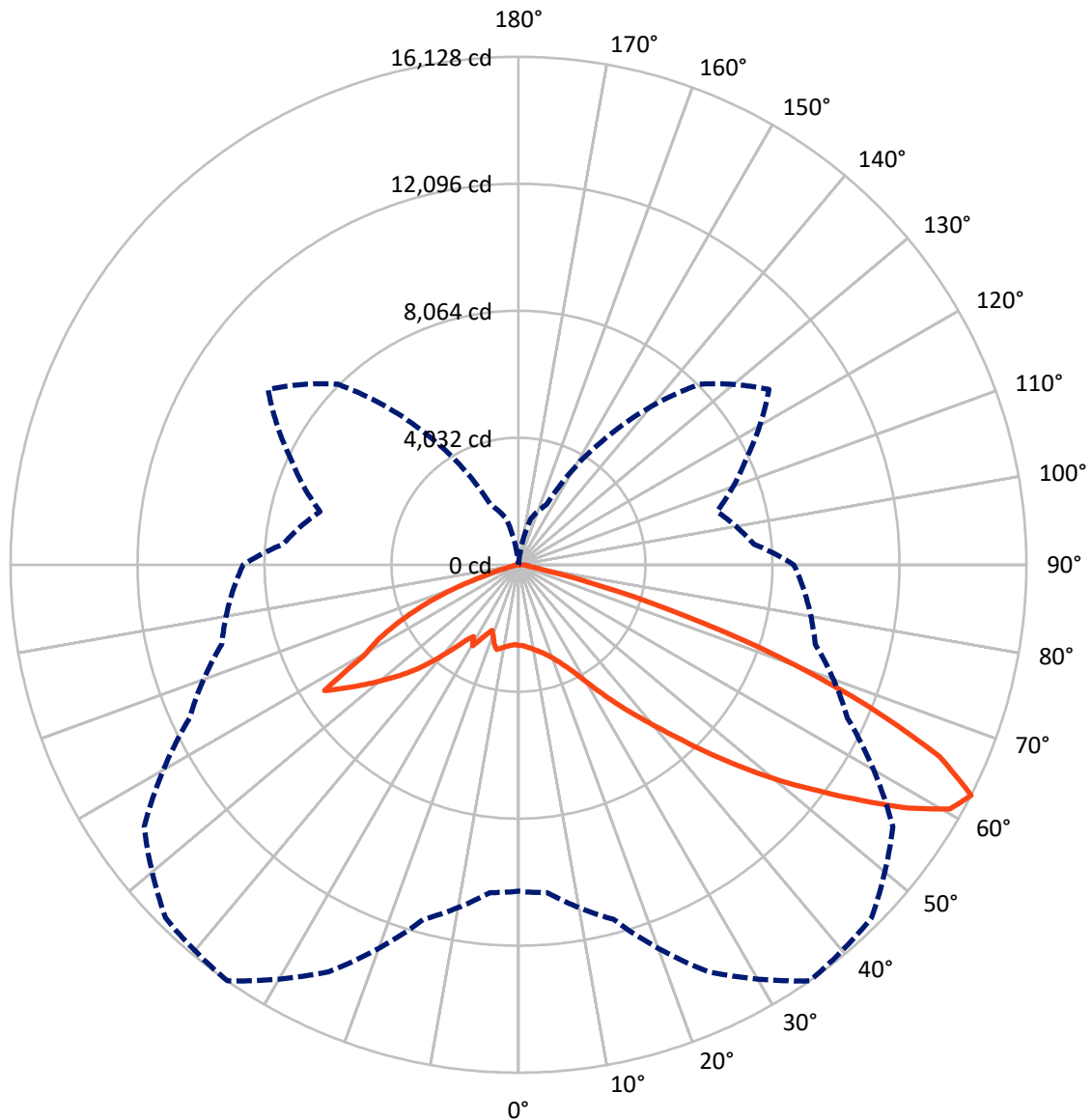
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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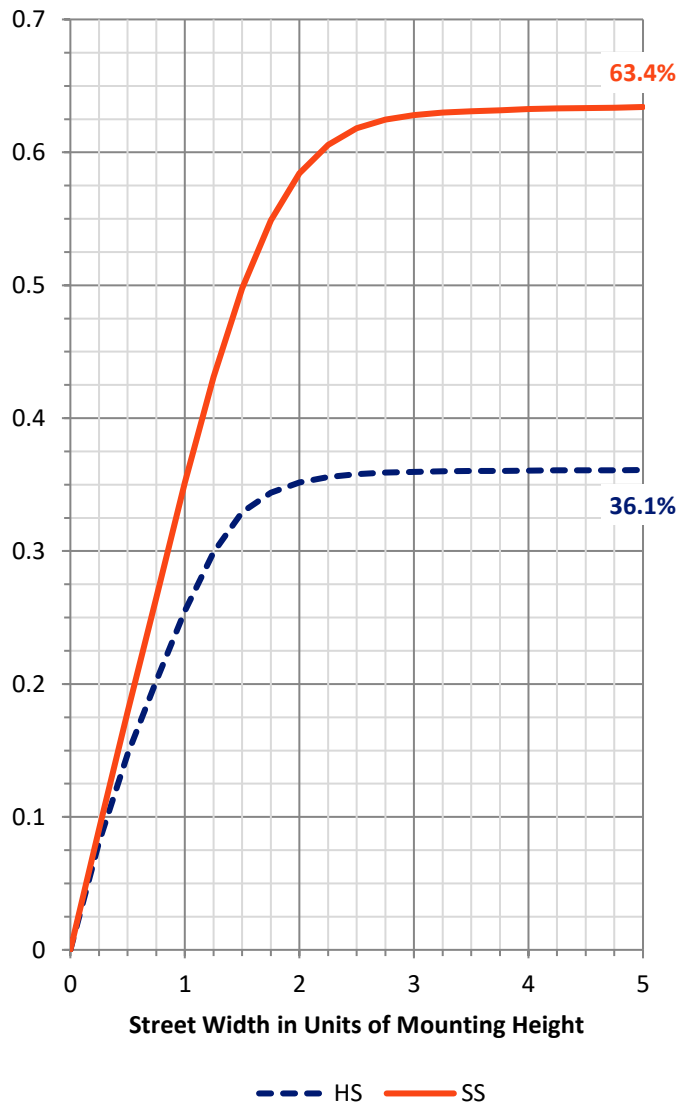
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10411.2	0.0	10411.3
	% Fixture	36.3	0.0	36.3
<b>Street Side</b>	Lumens	18258.1	13.6	18271.7
	% Fixture	63.7	0.0	63.7
<b>Total</b>	Lumens	28669.4	13.6	28683.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.3	0.9
10°-20°	815.5	2.8
20°-30°	1568.9	5.5
30°-40°	3129.7	10.9
40°-50°	5714.7	19.9
50°-60°	8539.7	29.8
60°-70°	7155.5	24.9
70°-80°	1339.1	4.7
80°-90°	154.1	0.5
90°-100°	12.3	0.0
100°-110°	1.3	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°	28669.4	100.0
0°-180°	28683.0	100.0

**Coefficient of Utilization**

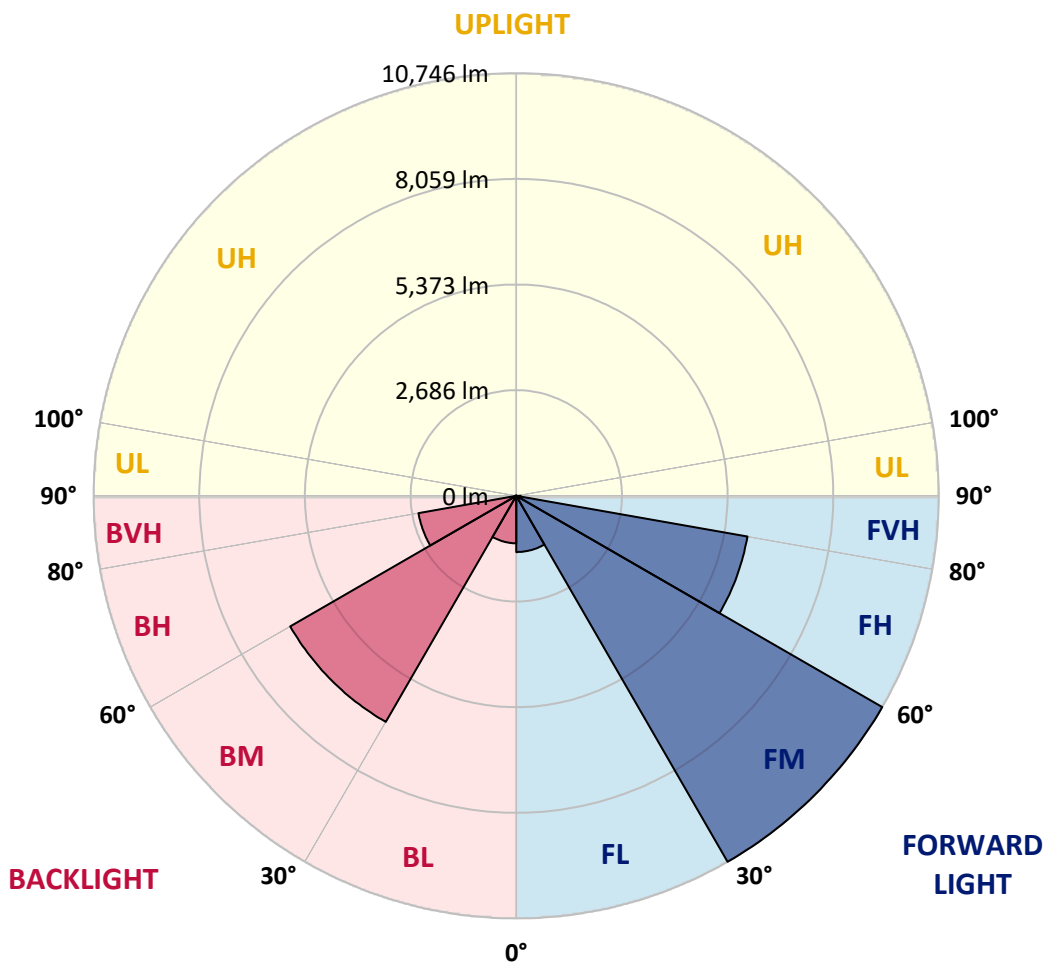


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1430.2	5.0			
FM (30°-60°)	10746.0	37.5			
FH (60°-80°)	5969.7	20.8			G3/7500
FVH (80°-90°)	112.3	0.4			G2/225
BL (0°-30°)	1206.5	4.2	B3/2500		
BM (30°-60°)	6638.1	23.1	B4/8500		
BH (60°-80°)	2524.8	8.8	B4/5000		G4/5000
BVH (80°-90°)	41.9	0.1			G1/100
UL (90°-100°)	12.3	0.0		U2/50	
UH (100°-180°)	1.4	0.0		U1/10	

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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2566.5	2566.5	2566.5	2566.5	2566.5	2566.5	2566.5	2566.5	2566.5	2566.5	2566.5
2.5°	2621.3	2599.8	2603.0	2618.1	2570.8	2590.1	2569.7	2589.0	2582.6	2591.2	2597.6
5°	2658.9	2632.0	2634.2	2651.4	2614.8	2631.0	2610.5	2623.4	2612.7	2624.5	2625.6
7.5°	2710.5	2688.0	2684.7	2701.9	2670.7	2684.7	2664.3	2670.7	2660.0	2674.0	2669.7
10°	2779.3	2758.9	2753.5	2765.4	2740.6	2748.2	2726.7	2735.3	2719.1	2735.3	2727.7
12.5°	2855.7	2828.8	2829.9	2842.8	2818.0	2823.4	2806.2	2815.9	2796.5	2813.7	2808.4
15°	2946.0	2907.3	2914.8	2928.8	2905.1	2921.3	2900.8	2914.8	2896.5	2914.8	2908.4
17.5°	3063.2	3019.1	3024.5	3047.1	3027.7	3053.5	3029.9	3047.1	3038.5	3050.3	3048.1
20°	3211.6	3182.5	3177.2	3205.1	3177.2	3209.4	3196.5	3226.6	3228.8	3240.6	3246.0
22.5°	3409.4	3390.0	3377.1	3396.5	3371.8	3394.3	3412.6	3464.2	3483.6	3514.8	3516.9
25°	3672.8	3671.7	3642.7	3643.8	3612.6	3642.7	3694.3	3775.0	3826.6	3866.3	3851.3
27.5°	4028.7	4035.2	3991.1	3973.9	3937.3	3982.5	4088.9	4188.9	4282.4	4338.4	4338.4
30°	4493.2	4499.6	4435.1	4400.7	4367.4	4445.9	4572.7	4702.8	4836.2	4916.8	4898.5
32.5°	5108.2	5087.8	4995.3	4932.9	4875.9	4966.3	5112.5	5259.8	5441.5	5557.6	5543.6
35°	5854.4	5780.2	5687.7	5571.6	5449.0	5520.0	5657.6	5842.5	6095.2	6269.4	6225.3
37.5°	6721.0	6647.8	6489.8	6289.8	6075.8	6084.4	6193.0	6513.4	6829.5	6971.5	6941.4
40°	7620.9	7563.9	7418.7	7161.8	6774.7	6685.5	6863.9	7249.9	7552.1	7730.5	7680.0
42.5°	8538.0	8479.9	8370.3	8112.2	7599.4	7384.3	7570.3	7990.7	8313.3	8488.5	8430.5
45°	9453.0	9386.3	9299.2	9071.3	8582.1	8267.1	8371.4	8757.3	9051.9	9250.8	9131.5
47.5°	10257.2	10213.1	10154.0	10061.5	9633.6	9285.3	9277.7	9532.5	9735.8	9866.9	9720.7
50°	10957.2	10926.0	10959.3	10940.0	10784.1	10466.9	10272.3	10255.1	10320.7	10416.3	10207.8
52.5°	11585.1	11530.2	11653.9	11807.6	11922.7	11858.2	11228.1	10874.4	10802.3	10834.6	10598.1
55°	12099.0	12073.2	12280.7	12666.7	13198.9	13340.8	12209.7	11476.5	11210.9	11193.7	10924.9
57.5°	12413.0	12449.5	12864.5	13600.0	14576.2	14621.4	13415.0	12120.5	11608.7	11423.8	11114.1
60°	11913.0	12053.8	12762.4	14279.5	15744.9	15772.9	14299.9	12238.8	11112.0	10698.0	10314.2
62.5°	10366.9	10450.8	11656.0	14256.9	16127.7	15854.6	14510.6	11524.9	9756.2	9096.0	8741.2
65°	7302.6	7459.6	8750.9	12826.9	14696.6	14731.0	13311.8	9964.8	7790.8	7060.7	6831.7
67.5°	4410.4	4560.9	5936.1	9259.5	11947.4	12333.4	11104.5	7544.5	5586.6	4664.1	4433.0
70°	1432.1	1595.6	2705.2	5457.6	8788.5	9714.3	8356.3	4910.3	2925.6	2049.3	1800.9
72.5°	544.0	593.5	880.6	2383.7	5473.7	6485.5	5168.4	2463.2	906.4	539.7	474.2
75°	353.7	361.3	411.8	835.4	2639.6	3570.7	2491.2	721.4	363.4	322.6	298.9
77.5°	304.3	309.7	331.2	416.1	840.8	1365.5	715.0	368.8	303.2	268.8	252.7
80°	287.1	289.2	303.2	352.7	393.5	455.9	344.1	308.6	264.5	252.7	240.8
82.5°	272.0	279.5	287.1	320.4	319.3	327.9	276.3	241.9	224.7	236.5	232.2
85°	253.7	258.0	263.4	286.0	260.2	220.4	212.9	166.7	162.4	173.1	162.4
87.5°	178.5	189.2	182.8	192.5	180.6	140.8	119.3	94.6	75.3	62.4	60.2
90°	73.1	74.2	69.9	64.5	57.0	47.3	37.6	23.7	10.8	5.4	2.2
92.5°	57.0	57.0	54.8	49.5	43.0	35.5	26.9	15.1	7.5	3.2	1.1
95°	35.5	36.6	34.4	31.2	26.9	21.5	16.1	8.6	5.4	2.2	1.1
97.5°	22.6	22.6	20.4	18.3	15.1	10.8	7.5	6.5	4.3	2.2	0.0
100°	12.9	12.9	11.8	9.7	7.5	5.4	5.4	4.3	3.2	1.1	0.0
102.5°	7.5	7.5	5.4	4.3	3.2	3.2	3.2	3.2	2.2	1.1	0.0
105°	3.2	3.2	2.2	2.2	1.1	1.1	2.2	2.2	2.2	1.1	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.2	2.2	1.1	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	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°	2566.5	2566.5	2566.5	2566.5	2566.5	2566.5	2566.5	2566.5	2566.5	2566.5
2.5°	2593.3	2574.0	2577.2	2558.9	2555.7	2537.4	2574.0	2578.3	2567.5	2577.2
5°	2623.4	2599.8	2607.3	2586.9	2583.7	2558.9	2591.2	2589.0	2580.4	2590.1
7.5°	2668.6	2643.9	2648.2	2625.6	2621.3	2594.4	2624.5	2614.8	2606.2	2618.1
10°	2732.0	2704.1	2706.2	2677.2	2680.4	2644.9	2681.5	2664.3	2653.5	2669.7
12.5°	2808.4	2777.2	2778.3	2748.2	2747.1	2712.7	2744.9	2735.3	2719.1	2743.9
15°	2907.3	2871.8	2868.6	2828.8	2818.0	2779.3	2809.4	2791.2	2780.4	2815.9
17.5°	3046.0	3006.2	2994.4	2946.0	2744.9	2628.8	2790.1	2844.9	2778.3	2767.5
20°	3230.9	3197.6	3170.7	3097.6	2760.0	2397.7	2129.9	2132.1	2413.8	2543.9
22.5°	3481.4	3441.7	3391.1	3286.8	2532.0	2246.1	2247.1	2243.9	1925.6	1791.3
25°	3824.4	3776.0	3672.8	3083.6	2688.0	2423.5	2417.0	2102.0	1926.7	1936.4
27.5°	4287.8	4188.9	3584.7	3340.6	2965.3	2653.5	2498.7	2116.0	2137.5	2152.5
30°	4877.0	4479.2	3873.9	3728.7	3298.7	2958.9	2310.6	2363.2	2406.3	2415.9
32.5°	5481.3	4492.1	4336.2	4182.5	3709.4	2692.3	2604.1	2704.1	2749.2	2754.6
35°	5475.9	5042.6	4841.5	4668.4	4090.0	2880.4	2936.3	3090.1	3205.1	3199.7
37.5°	5795.2	5650.1	5410.3	5191.0	3681.4	3244.9	3344.9	3519.1	3658.8	3654.5
40°	6462.9	6295.2	6041.4	5581.3	4076.0	3662.1	3801.8	3988.9	4087.8	4093.2
42.5°	7094.0	6955.3	6696.2	5214.6	4569.5	4164.2	4291.0	4416.8	4478.1	4497.5
45°	7721.9	7623.0	6760.7	5763.0	5166.2	4669.5	4753.4	4777.0	4841.5	4834.0
47.5°	8231.6	8121.9	6500.5	6451.1	5889.8	5149.0	5142.6	5111.4	5135.1	5140.4
50°	8697.1	7375.7	7023.1	7187.6	6648.9	5638.2	5515.7	5452.2	5420.0	5406.0
52.5°	9064.8	7377.9	7511.2	7948.8	7505.8	6169.4	5906.0	5727.5	5014.6	5572.7
55°	9377.7	7682.2	7973.5	8762.7	8244.5	6725.3	6258.6	5940.4	3347.0	2683.6
57.5°	9557.3	7913.3	8431.6	9525.0	8889.6	7343.5	5761.9	4982.4	1892.3	1890.2
60°	8863.8	7498.3	8418.7	9925.0	8703.6	5696.3	2346.0	1963.3	358.0	367.7
62.5°	7503.7	6523.1	7984.3	9705.7	8105.8	5011.4	2104.1	1511.7	11.8	9.7
65°	5813.5	5203.9	6723.1	8536.9	7374.7	4181.4	1568.7	1089.2	3.2	0.0
67.5°	3802.9	3667.4	4960.9	7079.0	6014.6	3239.5	1052.6	521.5	2.2	0.0
70°	1621.4	1878.3	3142.8	5132.9	4603.9	2228.8	507.5	188.2	1.1	0.0
72.5°	453.7	601.0	1398.8	3007.3	2895.5	1171.9	197.8	79.6	1.1	0.0
75°	268.8	231.2	401.0	1199.9	1409.6	411.8	91.4	61.3	1.1	0.0
77.5°	223.6	180.6	230.1	306.4	426.8	148.4	77.4	54.8	0.0	0.0
80°	209.7	160.2	198.9	214.0	210.7	123.6	76.3	54.8	0.0	0.0
82.5°	198.9	139.8	164.5	164.5	176.3	114.0	72.0	53.8	0.0	0.0
85°	149.5	97.8	109.7	141.9	126.9	80.6	52.7	43.0	0.0	0.0
87.5°	57.0	35.5	43.0	45.2	36.6	18.3	4.3	4.3	0.0	0.0
90°	1.1	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: P579573  
 CATALOG NUMBER: CST-CA10-210-760-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)