

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: P579569

Luminaire Tested: **CST-CA10-210-760-U-T5-HSS-HM-EX180**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579569  
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-CA10-210-760-U-T5-HSS-HM-EX180  
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: 21453 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U2 - G4

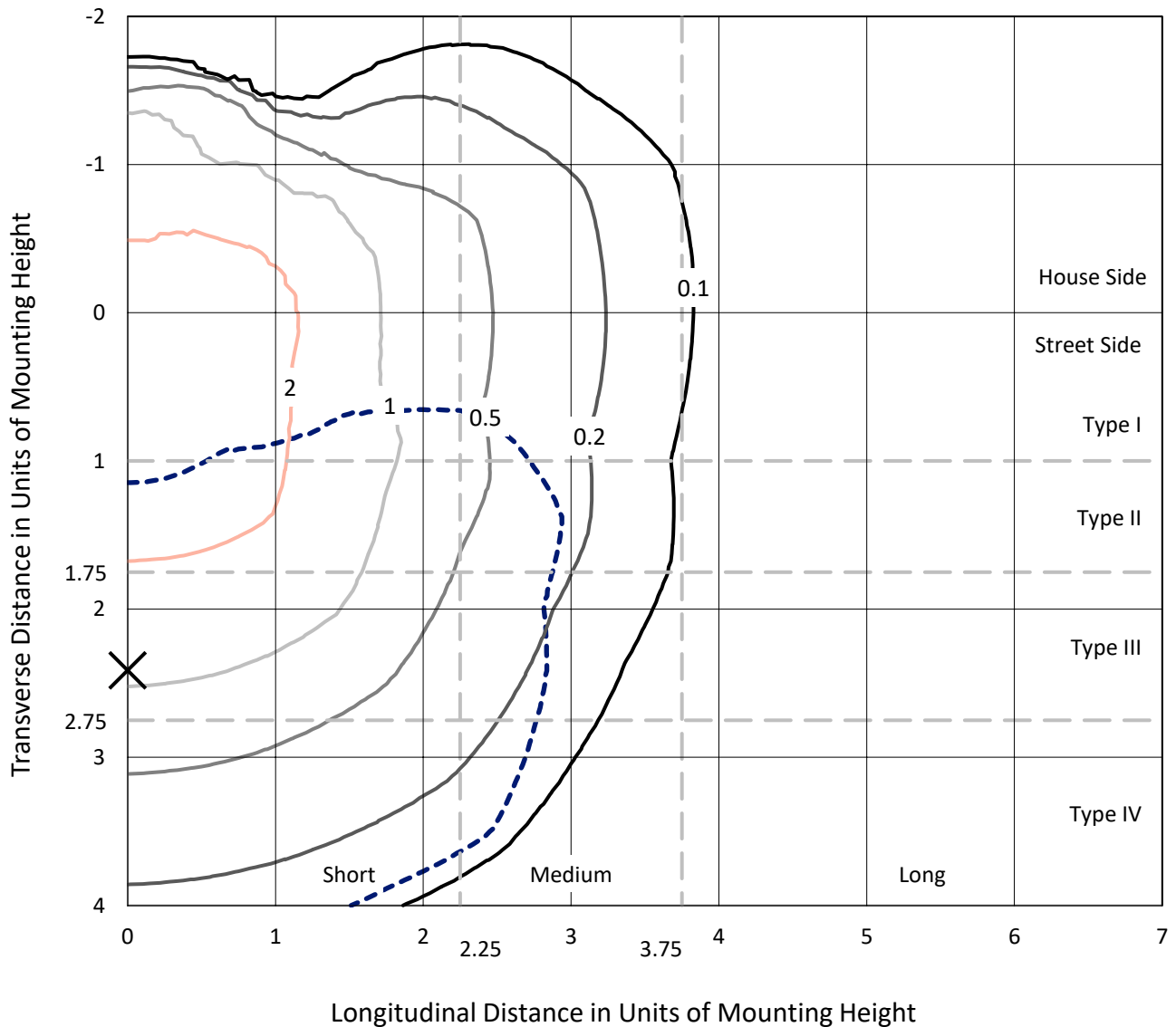
Input Watts (W): 212.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

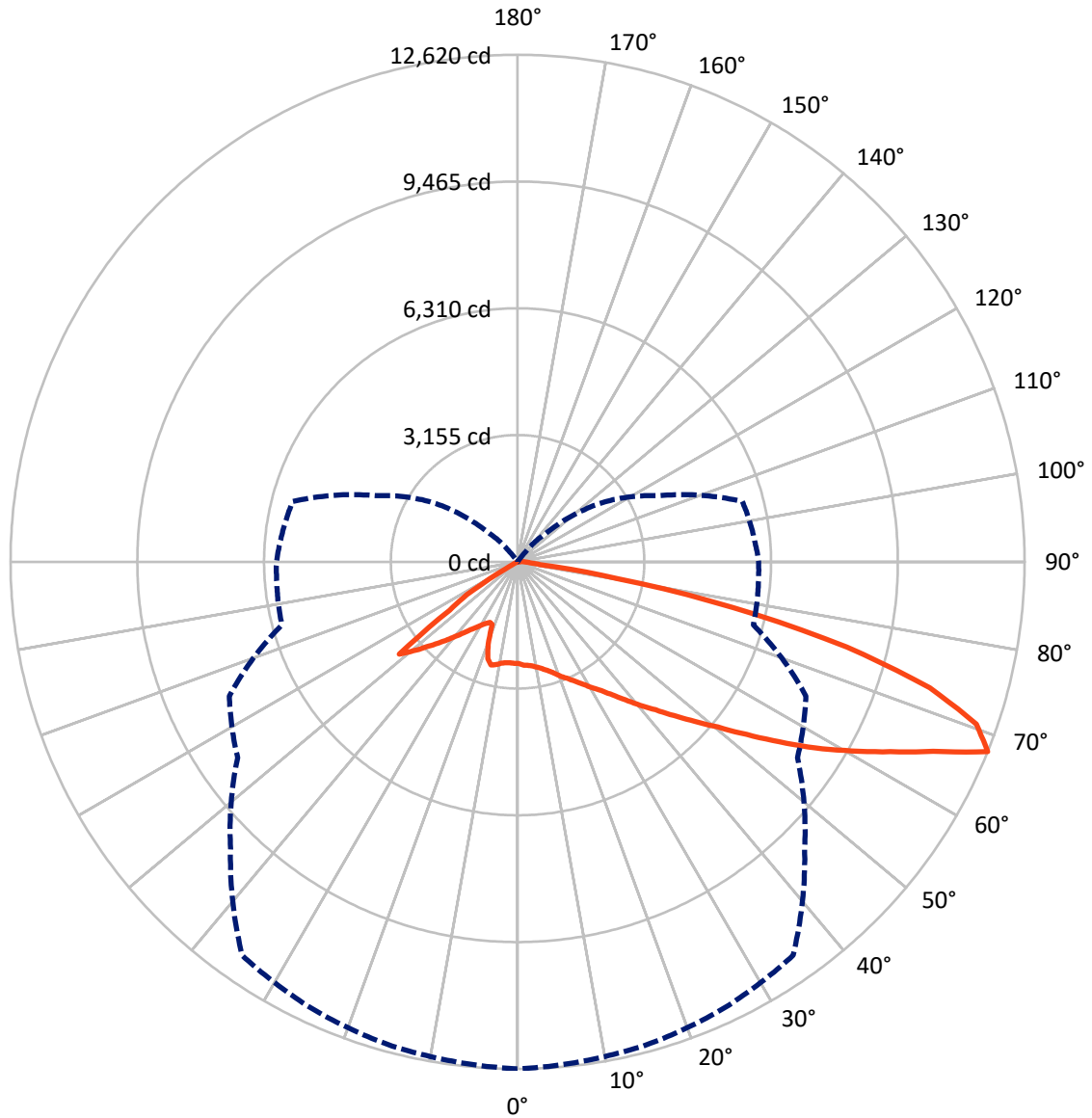
✕ Max cd  
 - - - 1/2 Max cd



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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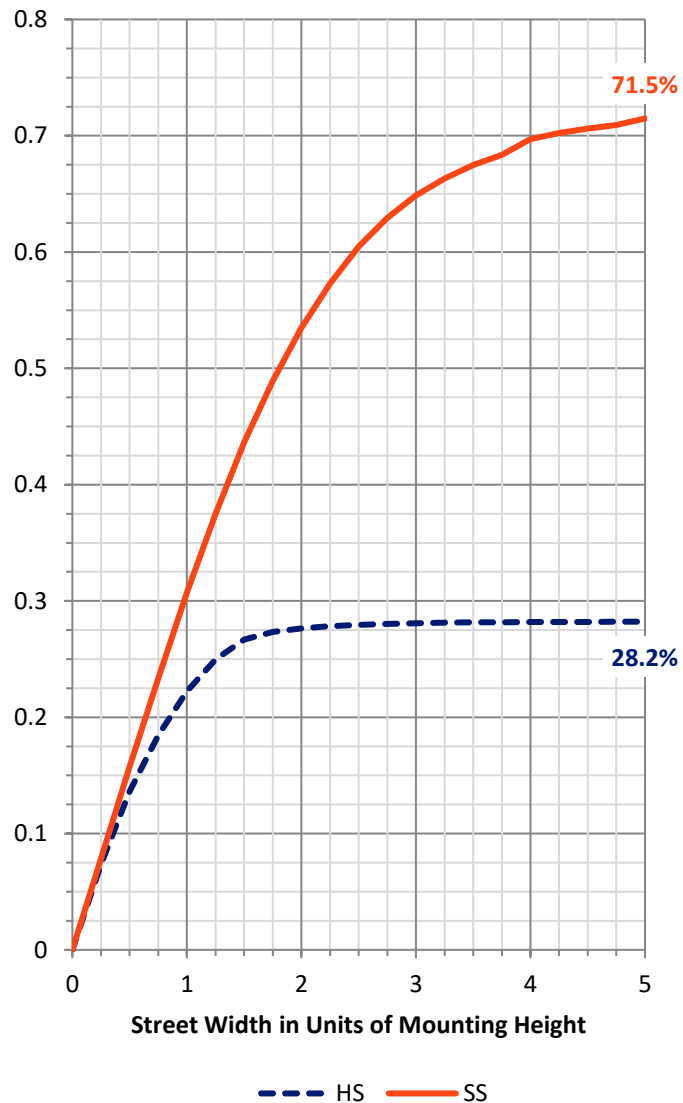
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6080.2	0.1	6080.3
	% Fixture	28.3	0.0	28.3
<b>Street Side</b>	Lumens	15345.4	27.3	15372.7
	% Fixture	71.5	0.1	71.7
<b>Total</b>	Lumens	21425.6	27.4	21453.0
	% Fixture	99.9	0.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.7	1.1
10°-20°	750.1	3.5
20°-30°	1242.0	5.8
30°-40°	1955.2	9.1
40°-50°	3059.9	14.3
50°-60°	4418.0	20.6
60°-70°	5473.1	25.5
70°-80°	3985.9	18.6
80°-90°	297.8	1.4
90°-100°	23.4	0.1
100°-110°	3.9	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°	21425.6	99.9
0°-180°	21453.0	100.0

**Coefficient of Utilization**



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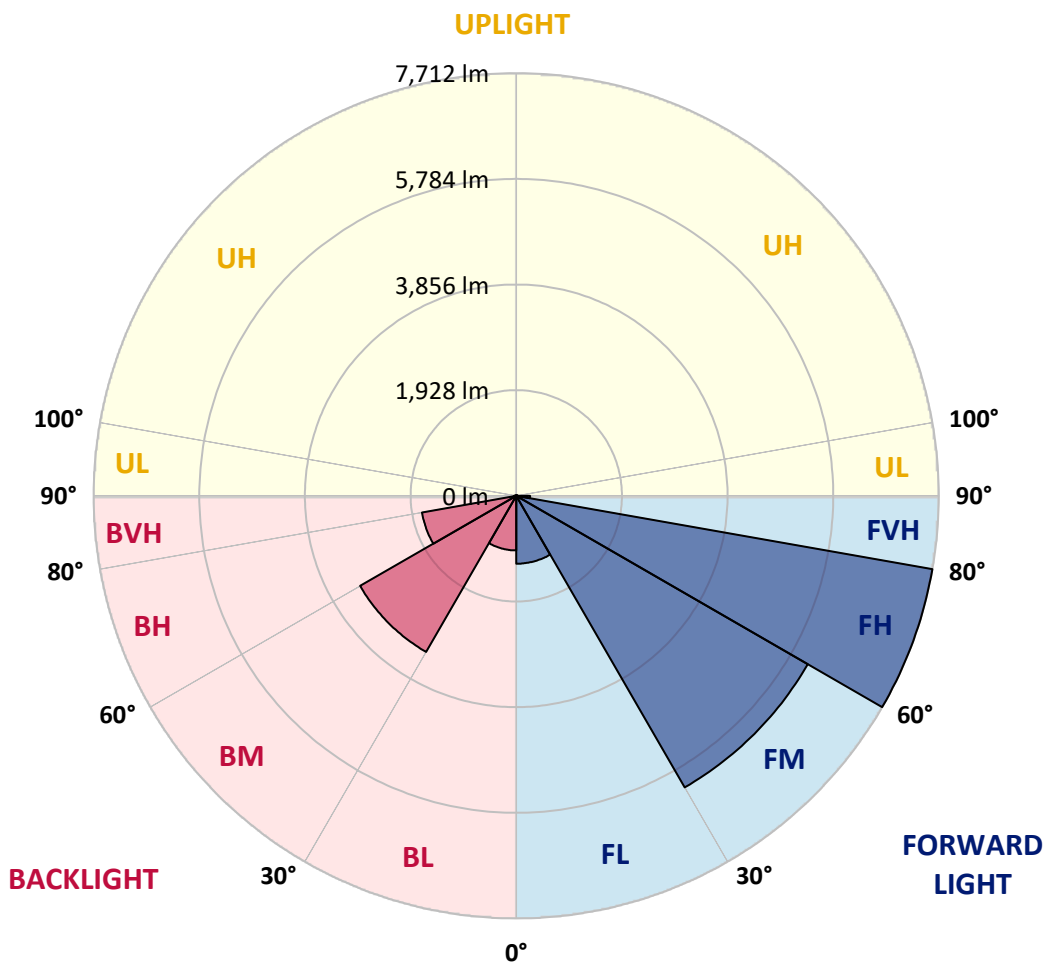
CATALOG NUMBER: CST-CA10-210-760-U-T5-HSS-HM-EX180

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1239.1	5.8			
FM (30°-60°)	6143.5	28.6			
FH (60°-80°)	7711.6	35.9			G4/12000
FVH (80°-90°)	251.2	1.2			G3/500
BL (0°-30°)	996.7	4.6	B2/1000		
BM (30°-60°)	3289.5	15.3	B3/5000		
BH (60°-80°)	1747.4	8.1	B3/2500		G3/2500
BVH (80°-90°)	46.6	0.2			G1/100
UL (90°-100°)	23.4	0.1		U2/50	
UH (100°-180°)	4.0	0.0		U1/10	

**BUG Rating: B3-U2-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6
2.5°	2572.8	2558.9	2558.9	2573.9	2532.0	2544.9	2527.7	2542.7	2534.1	2538.4	2543.8
5°	2587.9	2571.8	2572.8	2591.1	2553.5	2564.2	2543.8	2551.3	2543.8	2547.0	2547.0
7.5°	2615.8	2601.9	2601.9	2612.6	2575.0	2578.2	2559.9	2559.9	2550.3	2557.8	2551.3
10°	2668.5	2653.5	2646.0	2651.3	2618.0	2613.7	2589.0	2589.0	2573.9	2585.7	2576.1
12.5°	2732.0	2710.5	2708.3	2709.4	2671.8	2664.2	2636.3	2637.4	2609.4	2625.5	2613.7
15°	2808.3	2781.4	2779.3	2783.6	2743.8	2729.8	2698.6	2698.6	2667.5	2676.1	2659.9
17.5°	2906.1	2875.0	2869.6	2877.1	2837.3	2824.4	2787.9	2781.4	2747.0	2740.6	2726.6
20°	3035.2	2999.7	2988.9	3005.1	2954.5	2942.7	2898.6	2884.6	2838.4	2762.1	2662.1
22.5°	3151.3	3123.3	3116.9	3127.6	3081.4	3069.6	3026.6	2997.5	2885.7	2732.0	2639.5
25°	3283.5	3272.8	3269.5	3263.1	3221.2	3200.7	3159.9	3119.0	2865.3	2654.6	2652.4
27.5°	3446.9	3441.6	3426.5	3421.1	3374.9	3362.0	3308.2	3044.8	2792.2	2777.1	2768.5
30°	3625.4	3614.7	3599.6	3600.7	3569.5	3545.9	3417.9	2979.3	2933.0	2933.0	2910.4
32.5°	3823.2	3811.4	3796.4	3799.6	3786.7	3766.3	3381.4	3152.4	3116.9	3126.5	3098.6
35°	4068.4	4049.0	4043.7	4056.6	4057.6	3925.4	3445.9	3387.8	3359.9	3353.4	3248.0
37.5°	4354.4	4338.2	4357.6	4387.7	4353.3	3966.2	3702.8	3684.6	3656.6	3500.7	3251.3
40°	4697.3	4668.3	4692.0	4711.3	4688.7	4209.2	3972.7	3979.1	3954.4	3492.1	3215.8
42.5°	5037.1	5009.1	5029.6	5078.0	5069.3	4510.3	4301.7	4315.7	4066.2	3512.5	3491.0
45°	5457.5	5447.8	5441.4	5481.1	5514.5	4870.4	4692.0	4690.9	3986.7	3837.2	3817.9
47.5°	5933.8	5920.9	5924.1	5974.6	6025.2	5300.5	5153.2	4721.0	4192.0	4207.1	4189.9
50°	6464.9	6450.9	6492.9	6566.0	6591.8	5783.3	5602.6	4639.3	4619.9	4636.1	4607.0
52.5°	7139.0	7107.8	7172.4	7250.8	7284.2	6354.2	5627.4	5122.0	5089.8	5093.0	5000.5
55°	7905.6	7880.9	7938.9	8027.1	8076.6	6991.7	6141.3	5591.9	5572.5	5024.2	4524.2
57.5°	8738.8	8710.9	8788.3	8814.1	8827.0	7650.8	6658.4	6101.5	5205.9	4587.7	4559.7
60°	9556.0	9525.9	9623.7	9628.0	9665.6	8308.8	7149.8	6592.8	5015.6	4933.9	4910.2
62.5°	10413.9	10376.3	10462.3	10459.1	10384.9	8910.9	7636.8	7064.8	5355.3	5290.8	5254.3
65°	11366.5	11338.6	11398.8	11302.0	11154.7	9533.4	8142.1	7578.8	5751.0	5739.2	5730.6
67.5°	12620.2	12565.3	12443.8	12237.4	11955.7	10104.3	8503.4	7917.4	6072.5	6017.6	6000.4
70°	12115.9	12051.4	11958.9	11732.1	11445.0	9567.8	7922.8	7405.7	5677.9	5680.0	5639.2
72.5°	10727.9	10616.1	10529.0	10210.7	10052.7	8356.1	6903.6	6427.3	4911.3	5002.7	4983.3
75°	8462.5	8348.6	8205.6	8080.9	8063.7	6777.8	5566.1	5223.1	3915.7	3982.4	4030.8
77.5°	5485.4	5443.5	5624.1	5505.9	5612.3	4667.2	3975.9	3681.3	2698.6	2867.4	2844.9
80°	2510.5	2462.1	2752.4	2670.7	2710.5	2292.2	1942.8	1866.5	1221.4	1230.0	1255.8
82.5°	567.7	548.3	568.8	522.5	509.6	431.1	379.5	344.0	216.1	229.0	240.8
85°	310.7	310.7	306.4	284.9	244.1	201.1	159.1	122.6	66.7	73.1	72.0
87.5°	218.3	212.9	211.8	189.2	162.3	137.6	109.7	78.5	37.6	25.8	23.7
90°	149.4	147.3	139.8	125.8	108.6	89.2	66.7	38.7	16.1	7.5	5.4
92.5°	108.6	106.4	101.1	89.2	74.2	60.2	44.1	25.8	12.9	5.4	1.1
95°	72.0	71.0	67.7	58.1	48.4	38.7	28.0	16.1	10.8	4.3	1.1
97.5°	49.5	48.4	45.2	38.7	31.2	24.7	17.2	11.8	8.6	3.2	1.1
100°	33.3	32.3	30.1	24.7	19.4	15.1	10.8	8.6	6.5	3.2	1.1
102.5°	21.5	20.4	18.3	15.1	10.8	8.6	7.5	6.5	4.3	2.2	1.1
105°	12.9	11.8	9.7	7.5	6.5	5.4	5.4	4.3	3.2	1.1	1.1
107.5°	6.5	5.4	4.3	4.3	4.3	3.2	3.2	3.2	2.2	1.1	0.0
110°	1.1	1.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2	1.1	0.0



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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°	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6
2.5°	2538.4	2521.2	2530.9	2515.9	2512.6	2496.5	2522.3	2525.5	2523.4	2527.7
5°	2541.7	2523.4	2534.1	2515.9	2515.9	2498.7	2523.4	2523.4	2516.9	2519.1
7.5°	2550.3	2532.0	2539.5	2519.1	2520.2	2499.7	2529.8	2526.6	2521.2	2528.8
10°	2575.0	2554.6	2553.5	2534.1	2538.4	2516.9	2554.6	2554.6	2549.2	2563.2
12.5°	2614.8	2584.7	2579.3	2555.6	2564.2	2546.0	2592.2	2594.3	2595.4	2618.0
15°	2656.7	2620.1	2625.5	2597.6	2594.3	2584.7	2626.6	2624.5	2623.4	2654.6
17.5°	2715.8	2543.8	2515.9	2496.5	2492.2	2468.6	2507.3	2581.4	2542.7	2521.2
20°	2622.3	2532.0	2421.2	2383.6	2376.1	2170.7	2008.4	2081.5	2180.4	2189.0
22.5°	2537.4	2505.1	2496.5	2437.4	2109.5	2040.6	2047.1	2020.2	1785.8	1683.7
25°	2642.7	2614.8	2578.2	2217.0	2139.6	2114.8	2107.3	1832.1	1647.1	1659.0
27.5°	2759.9	2728.7	2410.5	2222.3	2239.5	2205.1	2035.3	1709.5	1698.7	1719.2
30°	2906.1	2656.7	2352.4	2341.7	2357.8	2313.7	1808.4	1784.8	1781.5	1803.0
32.5°	3072.8	2562.1	2507.3	2507.3	2499.7	2023.4	1905.2	1889.0	1897.6	1920.2
35°	3010.4	2710.5	2704.0	2730.9	2550.3	2076.1	2060.0	2032.0	2038.5	2046.0
37.5°	2941.6	2954.5	2957.7	2943.8	1860.0	2226.6	2213.7	2208.4	2201.9	2204.1
40°	3197.5	3206.1	3202.9	3074.9	2007.3	2255.7	2387.9	2378.2	2377.2	2390.1
42.5°	3496.4	3520.1	3501.8	2712.6	2204.1	1896.6	2589.0	2583.6	2581.4	2608.3
45°	3832.9	3855.5	3471.7	2905.1	2413.7	1963.2	2602.9	2802.9	2819.1	2842.7
47.5°	4197.4	4193.1	3204.0	3200.7	2659.9	2148.2	2164.3	3065.3	3092.1	3100.7
50°	4616.7	3927.5	3508.2	3390.0	2938.4	2355.7	2294.4	2812.6	3406.1	3414.7
52.5°	4527.5	3885.6	3857.7	2973.9	3187.8	2584.7	2524.5	2508.3	3530.8	3738.3
55°	4220.0	4252.2	4212.5	3263.1	2337.4	2788.9	2751.3	2735.2	2626.6	2079.3
57.5°	4561.9	4571.6	4537.1	3528.7	2377.2	1738.5	2708.3	2323.4	1509.5	1502.0
60°	4916.7	4932.8	3379.2	2592.2	1523.5	581.7	138.7	146.2	417.2	366.6
62.5°	5255.4	5271.5	3577.0	2368.6	962.3	43.0	28.0	19.4	21.5	21.5
65°	5697.2	5703.7	3828.6	2507.3	999.9	10.8	3.2	0.0	0.0	0.0
67.5°	5926.2	5794.0	3892.1	2570.7	1026.8	6.5	2.2	0.0	0.0	0.0
70°	5580.0	5438.1	3623.3	2409.4	956.9	5.4	1.1	0.0	0.0	0.0
72.5°	4916.7	4847.9	3252.3	2136.3	847.2	3.2	1.1	0.0	0.0	0.0
75°	4074.8	3983.4	2696.5	1780.5	701.0	2.2	0.0	0.0	0.0	0.0
77.5°	2898.6	2909.4	1879.4	1297.7	477.4	2.2	0.0	0.0	0.0	0.0
80°	1268.7	1297.7	823.6	595.6	168.8	1.1	0.0	0.0	0.0	0.0
82.5°	241.9	222.6	107.5	84.9	21.5	0.0	0.0	0.0	0.0	0.0
85°	79.6	87.1	39.8	32.3	9.7	0.0	0.0	0.0	0.0	0.0
87.5°	28.0	35.5	11.8	9.7	2.2	0.0	0.0	0.0	0.0	0.0
90°	4.3	4.3	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: P579569  
 CATALOG NUMBER: CST-CA10-210-760-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)