

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: P522124

Luminaire Tested: **CST-CA10-210-760-U-T5R-HSS-HM-EX180**

Issue Date: 5/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522124  
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-CA10-210-760-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: 23008 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U2 - G4

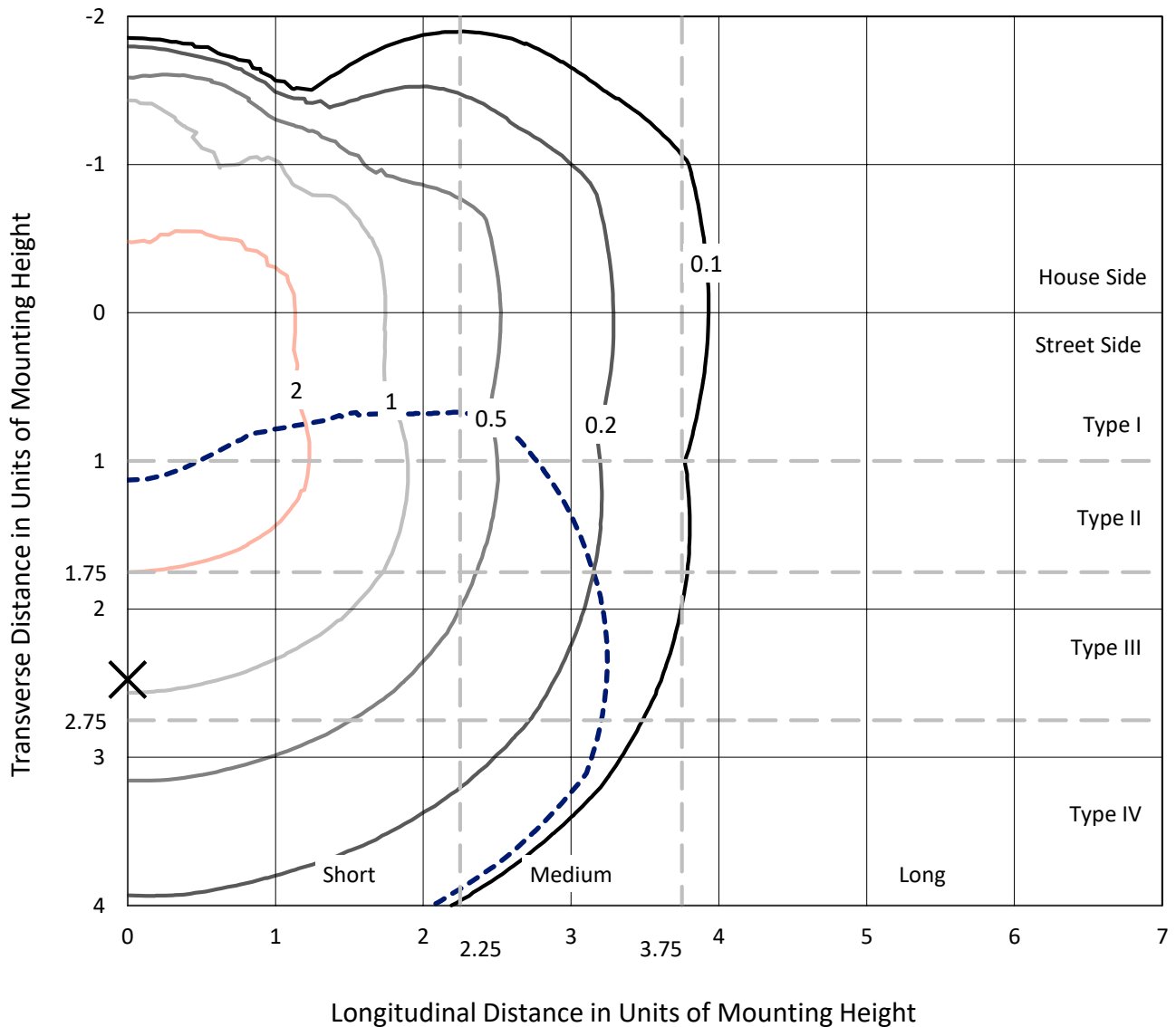
Input Watts (W): 212.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

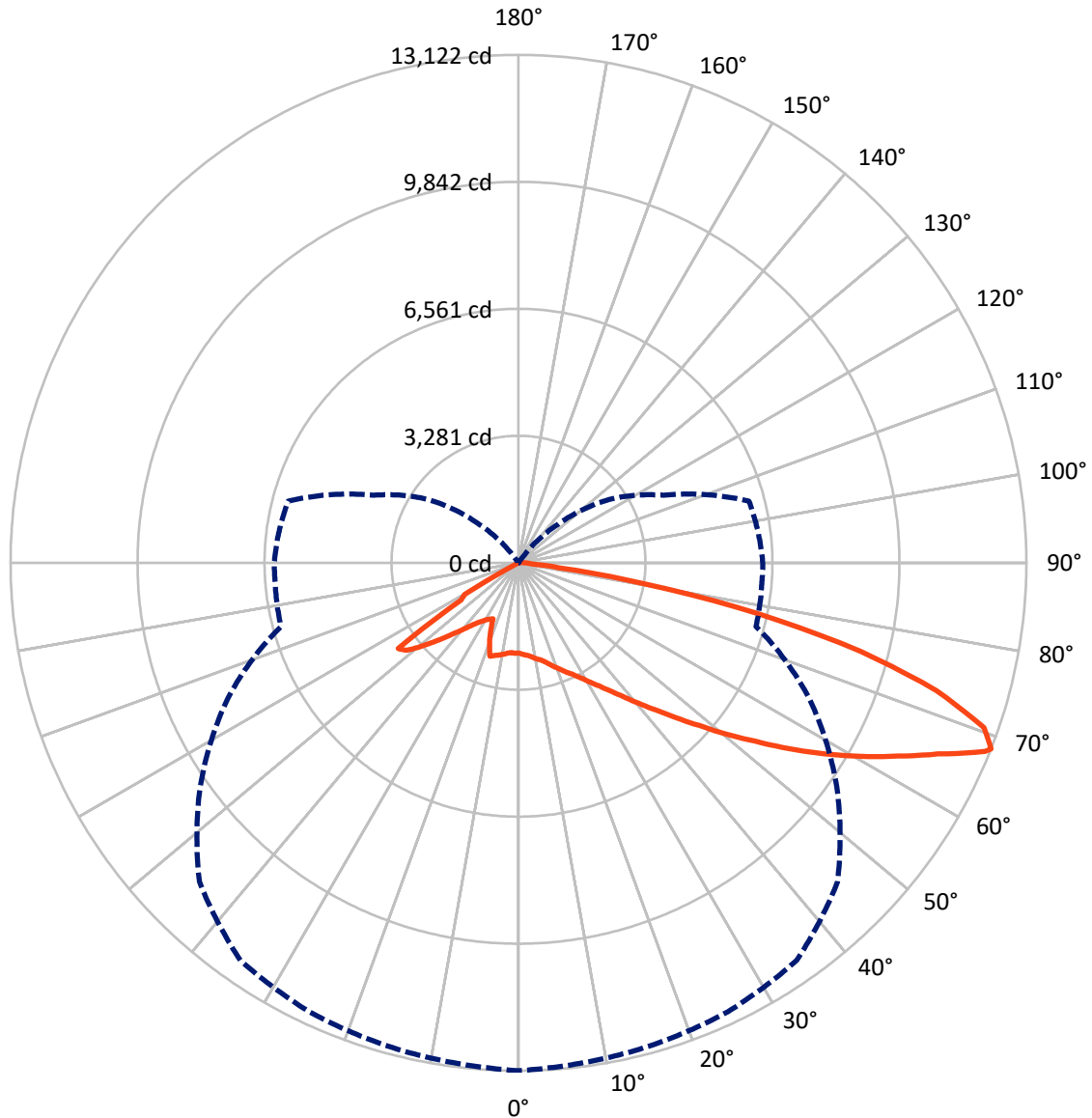
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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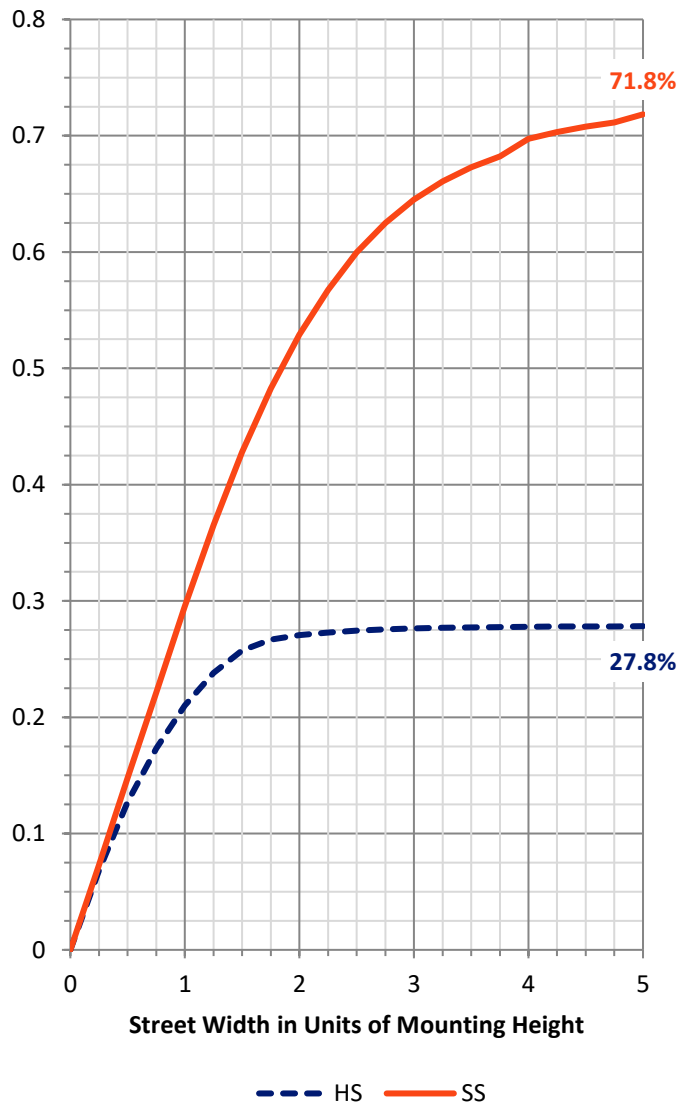
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6426.2	0.1	6426.3
	% Fixture	27.9	0.0	27.9
<b>Street Side</b>	Lumens	16568.5	13.2	16581.7
	% Fixture	72.0	0.1	72.1
<b>Total</b>	Lumens	22994.7	13.3	23008.0
	% Fixture	99.9	0.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.2	1.0
10°-20°	716.9	3.1
20°-30°	1213.7	5.3
30°-40°	1922.7	8.4
40°-50°	3143.5	13.7
50°-60°	4815.0	20.9
60°-70°	5920.4	25.7
70°-80°	4574.7	19.9
80°-90°	461.6	2.0
90°-100°	13.1	0.1
100°-110°	0.2	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°	22994.7	99.9
0°-180°	23008.0	100.0

**Coefficient of Utilization**

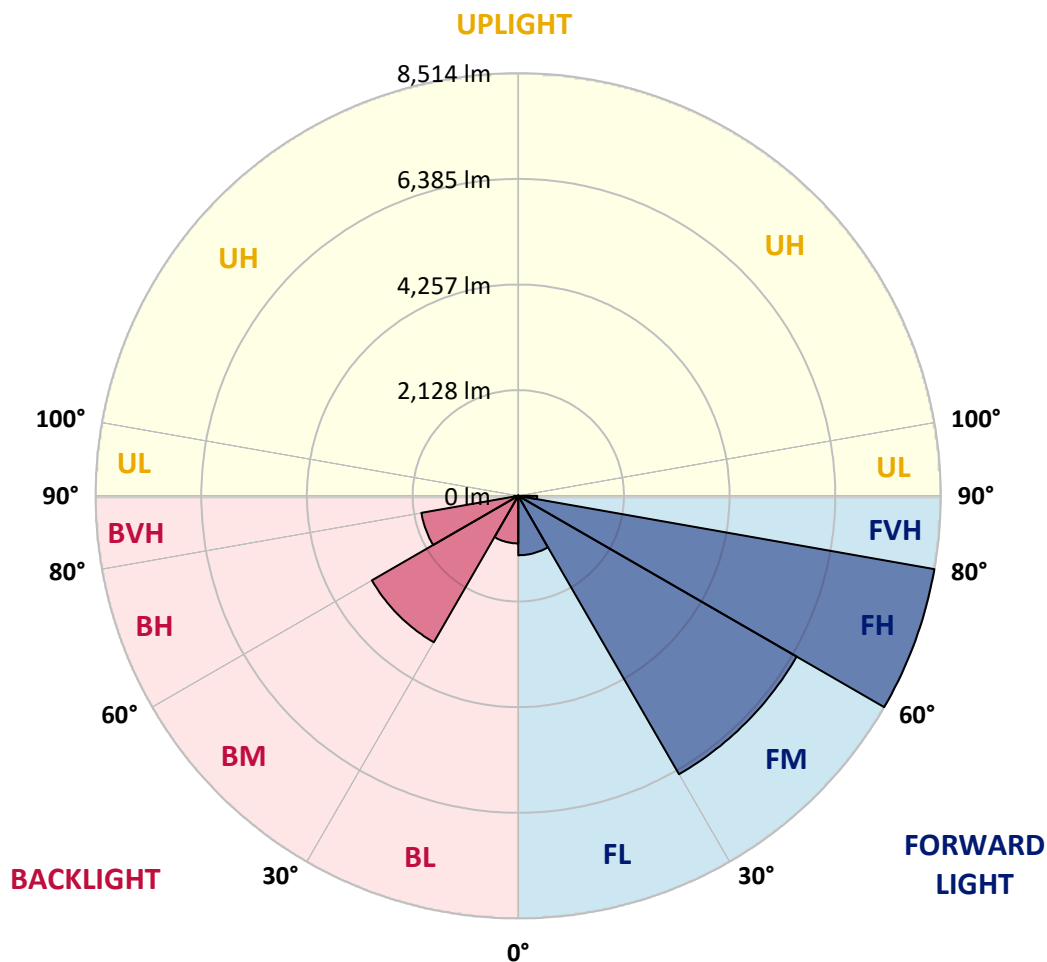


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1197.6	5.2			
FM (30°-60°)	6476.4	28.1			
FH (60°-80°)	8513.9	37.0			G4/12000
FVH (80°-90°)	380.7	1.7			G3/500
BL (0°-30°)	959.2	4.2	B2/1000		
BM (30°-60°)	3404.9	14.8	B3/5000		
BH (60°-80°)	1981.2	8.6	B3/2500		G3/2500
BVH (80°-90°)	80.9	0.4			G1/100
UL (90°-100°)	13.1	0.1		U2/50	
UH (100°-180°)	0.2	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°	2331.0	2331.0	2331.0	2331.0	2331.0	2331.0	2331.0	2331.0	2331.0	2331.0	2331.0
2.5°	2373.1	2368.6	2364.2	2374.2	2335.4	2352.0	2338.7	2350.9	2342.0	2352.0	2348.7
5°	2404.1	2399.7	2386.4	2397.5	2372.0	2378.6	2362.0	2366.4	2336.5	2354.2	2353.1
7.5°	2455.1	2442.9	2434.0	2434.0	2411.9	2410.8	2384.2	2385.3	2362.0	2359.8	2364.2
10°	2523.8	2514.9	2490.6	2492.8	2461.7	2457.3	2424.1	2423.0	2404.1	2393.0	2403.0
12.5°	2574.8	2583.7	2561.5	2561.5	2530.5	2508.3	2485.0	2469.5	2455.1	2438.5	2430.7
15°	2667.9	2676.8	2646.8	2645.7	2633.5	2606.9	2581.5	2548.2	2522.7	2514.9	2502.8
17.5°	2788.7	2783.2	2757.7	2758.8	2761.0	2717.8	2692.3	2649.1	2612.5	2585.9	2579.2
20°	2911.8	2911.8	2884.0	2892.9	2881.8	2841.9	2825.3	2765.4	2714.5	2685.6	2662.4
22.5°	3049.2	3043.7	3024.8	3043.7	3021.5	2981.6	2953.9	2894.0	2828.6	2665.7	2599.2
25°	3180.0	3176.7	3184.4	3190.0	3162.3	3112.4	3093.5	3030.4	2848.6	2634.7	2500.5
27.5°	3345.1	3334.1	3351.8	3362.9	3335.2	3291.9	3252.0	3181.1	2796.5	2628.0	2613.6
30°	3556.8	3532.5	3557.9	3563.5	3534.7	3508.1	3448.2	3093.5	2814.2	2765.4	2761.0
32.5°	3783.0	3754.1	3787.4	3791.8	3754.1	3732.0	3581.2	3048.1	2988.2	2931.7	2937.2
35°	4051.2	4051.2	4067.8	4070.0	4042.3	4004.6	3430.5	3269.8	3216.6	3164.5	3163.4
37.5°	4378.2	4368.2	4412.5	4439.1	4409.2	4301.7	3649.9	3574.6	3492.6	3426.1	3288.6
40°	4772.8	4790.5	4802.7	4829.3	4800.5	4558.8	3970.3	3884.9	3820.6	3597.9	3250.9
42.5°	5198.4	5202.8	5229.4	5262.7	5262.7	5007.7	4344.9	4271.8	4188.6	3518.0	3361.8
45°	5707.1	5697.2	5748.1	5801.3	5786.9	5523.1	4780.5	4726.2	4337.2	3749.7	3750.8
47.5°	6284.6	6272.4	6345.6	6415.4	6343.3	6095.1	5259.3	5217.2	4186.4	4142.1	4133.2
50°	6951.9	6921.9	7006.2	7099.3	7040.5	6733.5	5841.2	5032.1	4606.5	4571.0	4565.5
52.5°	7664.6	7641.3	7692.3	7850.8	7773.2	7401.9	6392.1	5191.7	5093.1	5053.2	5043.2
55°	8469.2	8423.8	8533.5	8654.4	8564.6	8141.2	6935.2	5721.5	5619.6	5550.8	5451.1
57.5°	9315.0	9249.6	9306.1	9457.9	9371.5	8898.2	7635.7	6266.9	6146.1	5086.4	4681.9
60°	10157.3	10127.4	10149.6	10283.7	10177.3	9634.2	8291.9	6813.3	5201.7	5031.0	5051.0
62.5°	11004.2	10938.8	10958.7	11096.1	10959.8	10334.7	8913.7	7309.9	5474.4	5414.5	5435.6
65°	11911.9	11834.3	11852.1	11892.0	11723.5	10963.1	9463.5	7778.7	5884.5	5821.3	5844.6
67.5°	13005.9	12935.0	12838.5	12719.9	12487.2	11630.4	10009.9	8272.0	6345.6	6310.1	6317.9
68°	13122.3	13053.6	12937.2	12796.4	12534.8	11658.1	10033.2	8286.4	6352.2	6307.9	6310.1
70°	12759.8	12800.9	12669.0	12432.9	12214.5	11252.4	9653.0	7967.1	6069.6	6004.2	5987.6
72.5°	11300.1	11389.9	11208.1	11168.2	10900.0	10024.3	8447.1	6913.1	5279.3	5300.3	5240.5
75°	9123.2	9255.1	9034.5	9046.7	8893.8	8361.7	7079.3	5755.9	4334.9	4431.4	4449.1
77.5°	6344.5	6534.0	6437.6	6534.0	6458.6	6266.9	5478.8	4432.5	3307.5	3418.3	3461.5
80°	3308.6	3533.6	3661.0	3700.9	3725.3	3717.6	3336.3	2660.1	1912.0	1953.0	1950.8
82.5°	1046.3	992.0	1024.2	1015.3	987.6	998.7	900.0	703.8	487.7	537.6	514.3
85°	315.9	318.1	309.2	307.0	283.7	249.4	203.9	117.5	57.6	67.6	63.2
87.5°	232.8	235.0	217.2	206.2	192.9	167.4	129.7	73.2	27.7	26.6	21.1
90°	128.6	124.1	115.3	106.4	100.9	86.5	65.4	27.7	10.0	7.8	6.7
92.5°	69.8	66.5	62.1	58.7	51.0	41.0	26.6	8.9	4.4	1.1	0.0
95°	32.1	29.9	28.8	25.5	22.2	15.5	8.9	5.5	3.3	1.1	0.0
97.5°	14.4	13.3	12.2	10.0	7.8	4.4	4.4	3.3	2.2	1.1	0.0
100°	3.3	3.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	1.1	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0



REPORT NUMBER: P522124  
 CATALOG NUMBER: CST-CA10-210-760-U-T5R-HSS-HM-EX180

**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°	2331.0	2331.0	2331.0	2331.0	2331.0	2331.0	2331.0	2331.0	2331.0	2331.0
2.5°	2345.4	2338.7	2335.4	2314.3	2321.0	2302.1	2338.7	2329.8	2324.3	2339.8
5°	2347.6	2324.3	2338.7	2326.5	2331.0	2304.4	2333.2	2321.0	2319.9	2326.5
7.5°	2353.1	2337.6	2352.0	2327.6	2338.7	2327.6	2348.7	2336.5	2346.5	2353.1
10°	2383.1	2374.2	2367.5	2362.0	2369.7	2347.6	2374.2	2375.3	2378.6	2398.6
12.5°	2425.2	2416.3	2405.2	2390.8	2398.6	2389.7	2409.7	2415.2	2427.4	2437.4
15°	2483.9	2467.3	2462.9	2449.6	2457.3	2452.9	2457.3	2454.0	2477.3	2473.9
17.5°	2564.8	2546.0	2482.8	2418.5	2377.5	2389.7	2440.7	2507.2	2523.8	2526.0
20°	2594.8	2461.7	2455.1	2381.9	2348.7	2346.5	2241.2	2083.8	2131.4	2243.4
22.5°	2559.3	2377.5	2358.7	2344.3	2202.4	1969.6	1947.5	1924.2	1918.6	1935.3
25°	2479.5	2458.4	2441.8	2253.4	2029.5	2030.6	1998.4	1845.5	1607.2	1587.2
27.5°	2601.4	2572.6	2411.9	2121.5	2117.0	2114.8	2067.2	1674.8	1623.8	1636.0
30°	2740.0	2692.3	2272.2	2234.5	2233.4	2213.5	1853.2	1689.2	1689.2	1691.4
32.5°	2899.6	2603.6	2352.0	2369.7	2368.6	2274.4	1790.1	1779.0	1774.5	1785.6
35°	3021.5	2532.7	2523.8	2556.0	2533.8	1929.7	1902.0	1892.0	1887.6	1882.1
37.5°	2983.8	2736.6	2736.6	2756.6	2578.1	2055.0	2041.7	2041.7	2032.8	2028.4
40°	3041.4	2990.5	2965.0	2972.7	1873.2	2206.8	2216.8	2214.6	2213.5	2221.2
42.5°	3345.1	3299.7	3276.4	3001.5	2097.1	2193.5	2437.4	2436.3	2439.6	2436.3
45°	3732.0	3689.8	3628.9	2808.7	2380.8	1923.1	2686.8	2698.9	2700.1	2698.9
47.5°	4137.6	4111.0	3487.0	3109.0	2689.0	2063.8	2568.2	2999.3	2993.8	3000.4
50°	4566.6	4446.9	3469.3	3464.8	3017.1	2296.6	2297.7	3262.0	3318.5	3336.3
52.5°	5044.3	4031.2	3845.0	3508.1	3349.6	2536.0	2511.6	2890.7	3662.1	3679.9
55°	4685.2	4258.5	4255.1	3122.4	3484.8	2766.6	2769.9	2743.3	3358.4	3817.3
57.5°	4661.9	4671.9	4664.1	3483.7	2542.7	2593.6	3018.2	2994.9	2174.7	1762.3
60°	5064.3	5078.7	4531.1	3761.9	2748.8	1595.0	1858.8	1579.5	1600.5	1617.1
62.5°	5448.9	5453.3	3685.4	2466.2	1362.2	64.3	31.0	25.5	24.4	24.4
65°	5874.5	5874.5	3950.3	2690.1	1315.7	24.4	4.4	3.3	12.2	12.2
67.5°	6285.7	6194.8	4144.3	2856.3	1338.9	3.3	0.0	0.0	0.0	0.0
68°	6262.4	6162.7	4126.6	2851.9	1335.6	2.2	0.0	0.0	0.0	0.0
70°	5914.4	5818.0	3914.9	2722.2	1285.7	2.2	0.0	0.0	0.0	0.0
72.5°	5220.5	5131.9	3467.1	2399.7	1159.4	1.1	0.0	0.0	0.0	0.0
75°	4419.2	4407.0	2994.9	2025.0	994.2	1.1	0.0	0.0	0.0	0.0
77.5°	3555.7	3500.3	2340.9	1587.2	801.4	0.0	0.0	0.0	0.0	0.0
80°	1980.7	2062.7	1370.0	933.3	504.3	0.0	0.0	0.0	0.0	0.0
82.5°	535.4	501.0	299.3	202.8	96.4	0.0	0.0	0.0	0.0	0.0
85°	68.7	75.4	34.4	27.7	6.7	0.0	0.0	0.0	0.0	0.0
87.5°	35.5	42.1	11.1	8.9	2.2	0.0	0.0	0.0	0.0	0.0
90°	6.7	7.8	3.3	1.1	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: P522124  
 CATALOG NUMBER: CST-CA10-210-760-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)