

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: P579568

Luminaire Tested: **CST-CA10-210-760-U-T5-HSS-HM-EX120**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579568  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-2)  
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-EX120  
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: 25575 lumens  
Efficiency: N/A  
Efficacy: 120.1 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U2 - G4

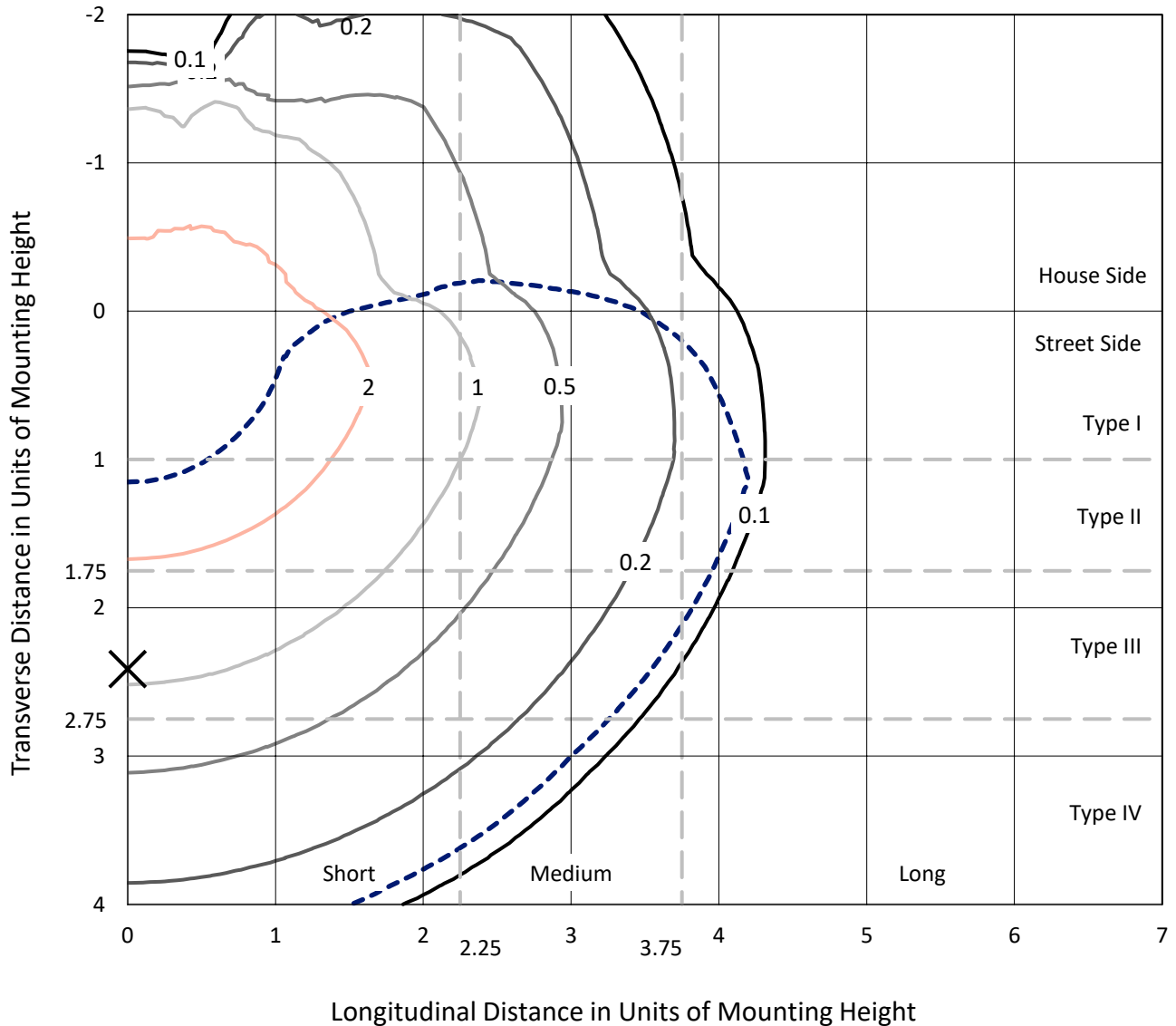
Input Watts (W): 212.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

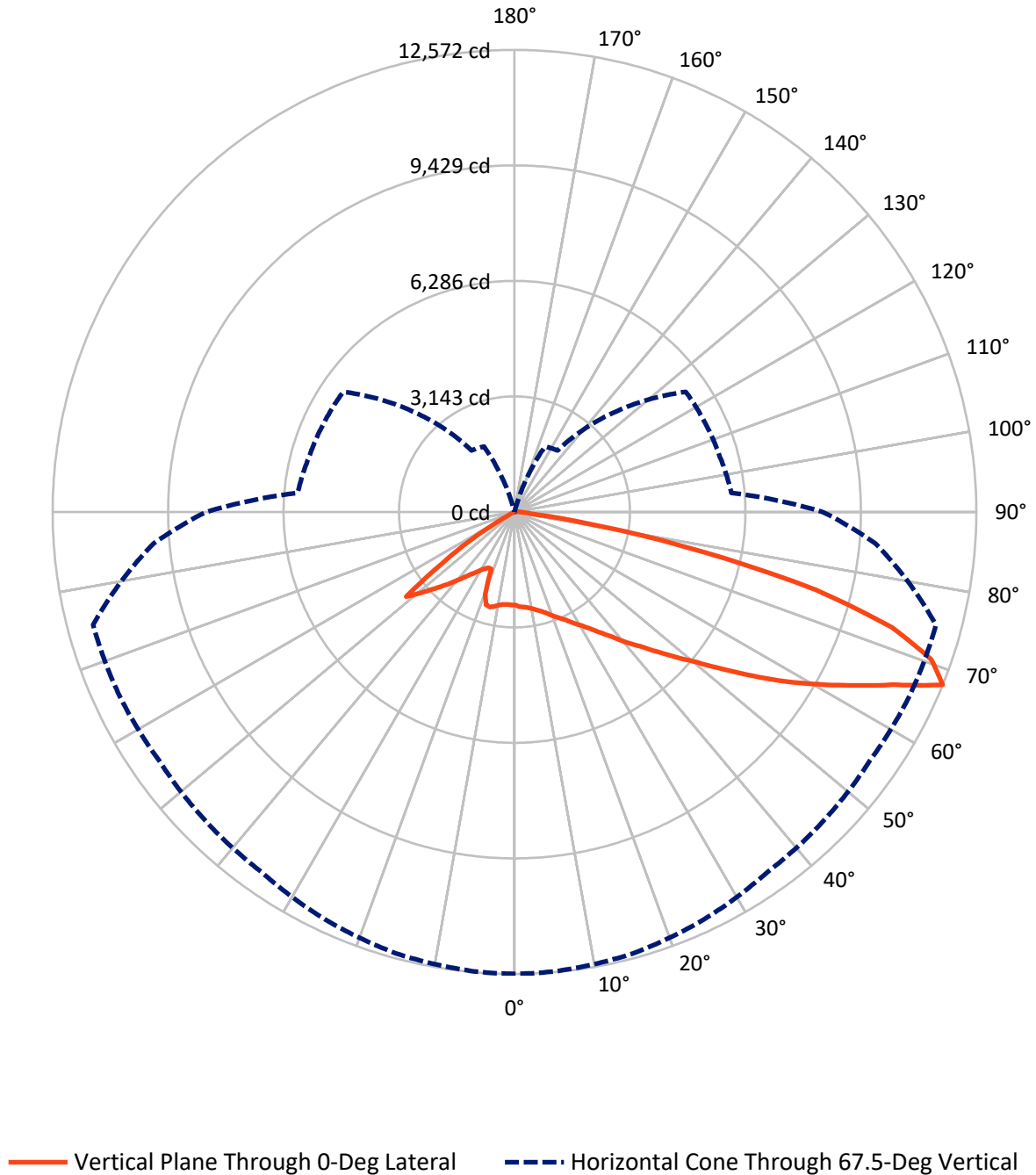
× Max cd  
 - - - 1/2 Max cd



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



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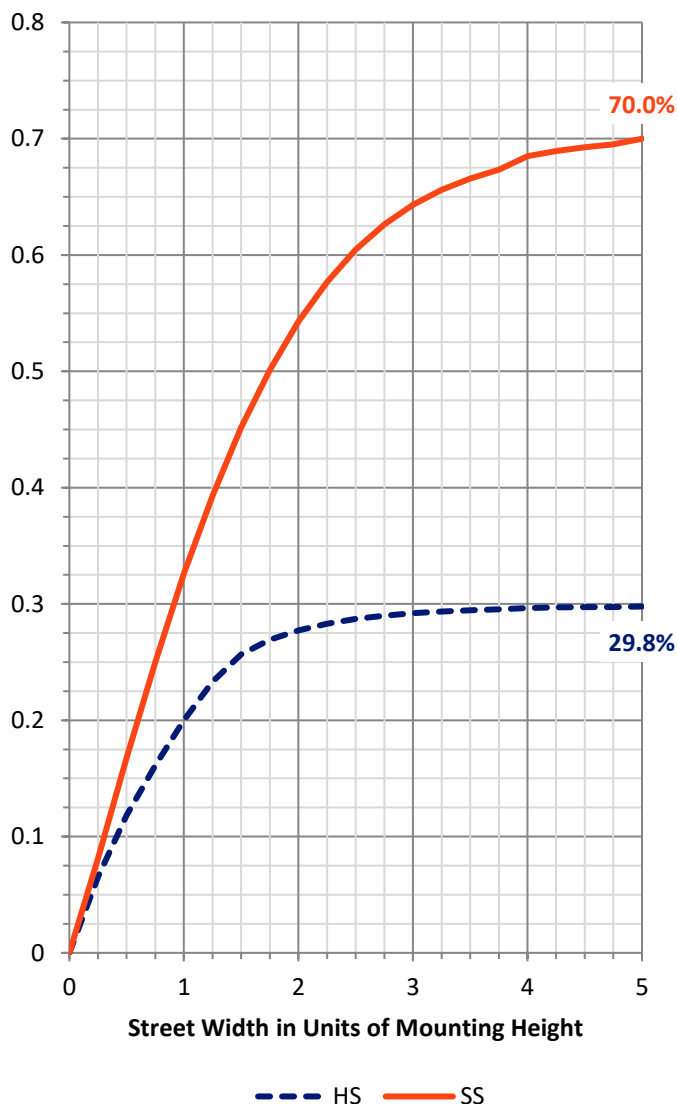
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7634.3	2.6	7636.9
	% Fixture	29.9	0.0	29.9
<b>Street Side</b>	Lumens	17909.4	28.8	17938.2
	% Fixture	70.0	0.1	70.1
<b>Total</b>	Lumens	25543.6	31.4	25575.0
	% Fixture	99.9	0.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.3	1.0
10°-20°	756.4	3.0
20°-30°	1269.3	5.0
30°-40°	2058.3	8.0
40°-50°	3363.4	13.2
50°-60°	5271.1	20.6
60°-70°	7059.6	27.6
70°-80°	5145.5	20.1
80°-90°	375.8	1.5
90°-100°	24.0	0.1
100°-110°	6.8	0.0
110°-120°	0.5	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°	25543.6	99.9
0°-180°	25575.0	100.0

**Coefficient of Utilization**

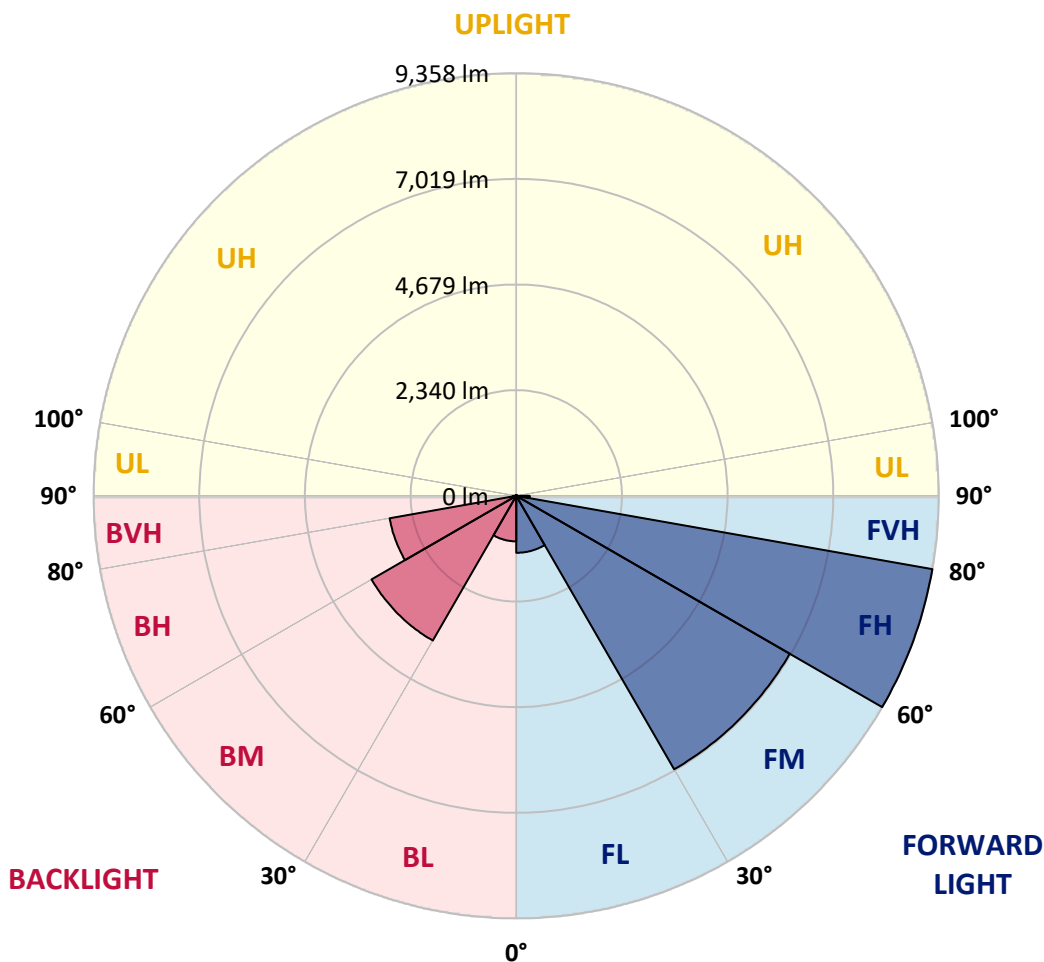


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1261.5	4.9			
FM	(30°-60°)	6992.7	27.3			
FH	(60°-80°)	9358.1	36.6			G4/12000
FVH	(80°-90°)	297.1	1.2			G3/500
BL	(0°-30°)	1008.5	3.9	B3/2500		
BM	(30°-60°)	3700.1	14.5	B3/5000		
BH	(60°-80°)	2847.0	11.1	B4/5000		G4/5000
BVH	(80°-90°)	78.6	0.3			G1/100
UL	(90°-100°)	24.0	0.1		U2/50	
UH	(100°-180°)	7.3	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°	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2
2.5°	2582.6	2567.5	2568.6	2582.6	2540.6	2554.6	2536.3	2550.3	2540.6	2543.9	2550.3
5°	2598.7	2582.6	2583.6	2600.9	2563.2	2575.0	2550.3	2557.8	2549.2	2553.5	2553.5
7.5°	2631.0	2612.7	2611.6	2622.4	2583.6	2587.9	2565.4	2566.4	2553.5	2562.1	2557.8
10°	2679.3	2664.3	2653.5	2660.0	2625.6	2623.4	2594.4	2595.5	2579.3	2589.0	2581.5
12.5°	2738.5	2718.0	2715.9	2718.0	2680.4	2671.8	2641.7	2643.9	2614.8	2629.9	2621.3
15°	2813.7	2781.5	2781.5	2793.3	2744.9	2738.5	2701.9	2704.1	2674.0	2685.8	2677.2
17.5°	2906.2	2875.0	2869.6	2878.2	2836.3	2827.7	2790.1	2787.9	2754.6	2757.8	2750.3
20°	3025.5	2994.4	2981.5	3003.0	2950.3	2943.8	2898.7	2894.4	2858.9	2849.2	2844.9
22.5°	3136.3	3111.6	3105.1	3128.8	3073.9	3068.6	3025.5	3020.2	2986.8	2972.9	2887.9
25°	3261.0	3255.6	3253.5	3261.0	3209.4	3198.6	3165.3	3157.8	3129.8	3112.6	3009.4
27.5°	3422.3	3420.1	3413.7	3414.8	3367.5	3357.8	3326.6	3321.2	3292.2	3272.8	3140.6
30°	3591.1	3591.1	3577.1	3584.6	3561.0	3545.9	3521.2	3501.8	3483.6	3463.1	3296.5
32.5°	3785.7	3784.6	3771.7	3794.3	3777.1	3777.1	3762.0	3741.6	3709.4	3699.7	3497.5
35°	4036.2	4020.1	4014.7	4051.3	4045.9	4055.6	4050.2	4028.7	4001.8	3979.2	3734.1
37.5°	4313.6	4309.3	4325.4	4348.0	4359.8	4385.6	4369.5	4368.4	4364.1	4307.2	3670.7
40°	4655.5	4637.2	4659.8	4671.6	4663.0	4705.0	4691.0	4702.8	4735.1	4277.1	3666.4
42.5°	4996.3	4980.2	4996.3	5054.4	5041.5	5092.0	5085.6	5131.8	5150.1	4340.5	3964.2
45°	5415.7	5397.4	5410.3	5479.1	5485.5	5546.8	5580.2	5624.2	5632.8	4751.2	4323.3
47.5°	5897.3	5867.2	5892.0	5924.2	6022.1	6080.1	6112.4	6166.1	6221.0	5245.8	4731.9
50°	6428.5	6426.3	6453.2	6509.1	6620.9	6679.0	6734.9	6790.8	6881.1	5797.4	5189.9
52.5°	7103.7	7089.7	7135.9	7188.6	7287.5	7376.8	7443.4	7501.5	7598.3	6355.4	5685.5
55°	7875.7	7827.3	7915.4	8004.7	8046.6	8152.0	8198.2	8246.6	8339.1	6942.4	5974.8
57.5°	8708.9	8697.1	8758.4	8790.6	8881.0	8946.5	8971.3	9024.0	9022.9	7553.1	6467.2
60°	9529.3	9516.4	9588.4	9607.8	9679.8	9738.9	9730.3	9777.7	9794.9	8126.2	6949.9
62.5°	10392.7	10371.2	10437.8	10442.1	10399.1	10494.8	10485.1	10524.9	10509.8	8686.3	7425.2
65°	11336.7	11352.8	11374.3	11286.1	11182.9	11265.7	11263.5	11338.8	11392.6	9469.1	8061.7
67.5°	12572.0	12551.6	12440.9	12228.0	11977.5	11893.6	11804.4	11859.2	11874.2	9858.3	8387.5
70°	12038.7	11993.6	11944.1	11726.9	11424.8	11211.9	11073.2	11131.3	11192.6	9316.4	7877.8
72.5°	10738.9	10627.0	10397.0	10205.6	10031.4	9823.9	9655.1	9756.1	9890.5	8263.8	6975.7
75°	8472.4	8368.1	8200.4	8070.3	7976.7	7974.6	7967.1	8045.5	8026.2	6710.2	5671.6
77.5°	5246.9	5465.1	5619.9	5509.2	5547.9	5468.3	5643.6	5746.8	5840.4	4810.3	4040.5
80°	2422.4	2478.3	2752.5	2681.5	2624.5	2608.4	2619.1	2798.7	2851.4	2159.0	1808.4
82.5°	552.6	530.1	549.4	509.6	507.5	483.8	487.1	487.1	469.9	397.8	333.3
85°	279.5	286.0	288.1	276.3	244.1	219.3	203.2	172.0	148.4	126.9	107.5
87.5°	187.1	192.5	195.7	179.6	161.3	140.8	127.9	104.3	82.8	51.6	39.8
90°	127.9	126.9	123.6	115.0	103.2	88.2	71.0	49.5	29.0	10.8	7.5
92.5°	91.4	89.2	88.2	80.6	72.0	60.2	46.2	31.2	16.1	7.5	4.3
95°	60.2	59.1	59.1	54.8	48.4	39.8	31.2	20.4	11.8	6.5	4.3
97.5°	41.9	40.9	40.9	38.7	34.4	29.0	21.5	14.0	9.7	6.5	4.3
100°	29.0	29.0	29.0	26.9	24.7	20.4	16.1	10.8	8.6	6.5	4.3
102.5°	19.4	19.4	20.4	19.4	17.2	14.0	10.8	8.6	7.5	5.4	4.3
105°	12.9	12.9	12.9	12.9	11.8	9.7	8.6	7.5	6.5	5.4	4.3
107.5°	8.6	8.6	8.6	8.6	7.5	6.5	6.5	6.5	5.4	5.4	4.3
110°	5.4	5.4	5.4	6.5	5.4	5.4	5.4	5.4	5.4	4.3	4.3



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 CATALOG NUMBER: CST-CA10-210-760-U-T5-HSS-HM-EX120

**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°	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2	2534.2
2.5°	2544.9	2529.9	2537.4	2522.4	2515.9	2501.9	2528.8	2531.0	2528.8	2533.1
5°	2548.2	2531.0	2539.6	2522.4	2519.1	2503.0	2529.9	2529.9	2523.4	2526.7
7.5°	2555.7	2537.4	2543.9	2523.4	2523.4	2504.1	2536.3	2534.2	2528.8	2536.3
10°	2581.5	2560.0	2560.0	2540.6	2542.8	2522.4	2562.1	2562.1	2557.8	2570.7
12.5°	2621.3	2594.4	2595.5	2568.6	2572.9	2556.8	2605.2	2607.3	2607.3	2628.8
15°	2672.9	2632.0	2636.3	2607.3	2615.9	2596.6	2639.6	2637.4	2642.8	2674.0
17.5°	2736.3	2691.2	2653.5	2558.9	2503.0	2505.2	2633.1	2692.2	2623.4	2643.9
20°	2763.2	2543.9	2424.5	2390.1	2382.6	2263.2	2019.2	2056.8	2286.9	2386.9
22.5°	2582.6	2512.7	2500.9	2456.8	2131.0	2040.7	2055.7	2034.2	1808.4	1680.5
25°	2670.7	2624.5	2597.6	2209.5	2136.4	2120.2	2109.5	1905.2	1660.1	1671.9
27.5°	2795.5	2735.2	2412.7	2219.2	2233.1	2208.4	2146.1	1713.8	1706.3	1725.7
30°	2942.8	2791.2	2351.4	2333.1	2349.3	2317.0	1804.1	1786.9	1786.9	1806.3
32.5°	3123.4	2532.0	2495.5	2497.6	2486.9	2121.3	1898.8	1894.5	1907.4	1923.5
35°	3072.9	2700.8	2704.1	2722.3	2697.6	2075.1	2047.1	2031.0	2041.8	2048.2
37.5°	2973.9	2954.6	2954.6	2934.2	2303.0	2237.4	2207.3	2205.2	2204.1	2204.1
40°	3223.4	3205.1	3182.5	3147.0	2409.5	2426.7	2381.5	2376.1	2379.4	2391.2
42.5°	3507.2	3499.7	3497.5	2700.8	2631.0	2643.9	2595.5	2581.5	2581.5	2608.4
45°	3841.6	3831.9	3594.3	2886.8	2875.0	2890.1	2836.3	2803.0	2821.3	2840.6
47.5°	4225.4	4225.4	3182.5	3165.3	3165.3	3173.9	3120.2	3075.0	3093.3	3099.7
50°	4645.8	3988.9	3501.8	3485.7	3500.8	3496.5	3440.6	3021.2	3409.4	3412.6
52.5°	4763.0	3879.2	3852.4	3834.1	3852.4	3849.1	3791.1	2520.2	3687.9	3740.5
55°	4222.2	4225.4	4220.1	4193.2	4212.5	4205.0	4148.0	2751.4	2719.1	2423.4
57.5°	4565.2	4569.5	4567.3	4563.0	4580.3	3327.7	4296.4	2485.8	1518.1	1519.2
60°	4938.3	4916.8	4910.3	4900.7	4153.4	2358.9	1790.2	173.1	593.5	584.9
62.5°	5277.0	5269.4	5246.9	5241.5	3524.4	1857.9	1814.9	39.8	31.2	30.1
65°	5747.9	5681.2	5663.0	5606.0	3756.7	1978.3	1937.5	11.8	1.1	0.0
67.5°	5923.1	5787.7	5722.1	5692.0	3822.3	2040.7	1962.2	11.8	1.1	0.0
70°	5592.0	5424.3	5341.5	5308.1	3571.7	1907.4	1830.0	11.8	1.1	0.0
72.5°	4958.7	4835.1	4801.7	4695.3	3149.2	1674.0	1606.3	11.8	0.0	0.0
75°	4067.4	4022.2	3981.4	3868.5	2560.0	1330.0	1269.8	10.8	0.0	0.0
77.5°	2960.0	2893.3	2818.0	2695.5	1727.8	868.7	837.6	9.7	0.0	0.0
80°	1334.3	1279.5	1261.2	1069.8	612.9	282.8	249.4	8.6	0.0	0.0
82.5°	259.1	233.3	221.5	212.9	137.6	76.3	66.7	6.5	0.0	0.0
85°	88.2	97.8	114.0	125.8	77.4	46.2	38.7	4.3	0.0	0.0
87.5°	34.4	46.2	55.9	58.1	29.0	19.4	10.8	2.2	0.0	0.0
90°	6.5	8.6	7.5	5.4	3.2	1.1	0.0	0.0	0.0	0.0
92.5°	3.2	4.3	3.2	3.2	2.2	1.1	0.0	0.0	0.0	0.0
95°	4.3	4.3	4.3	3.2	2.2	1.1	0.0	0.0	0.0	0.0
97.5°	4.3	4.3	4.3	3.2	2.2	1.1	0.0	0.0	0.0	0.0
100°	4.3	4.3	4.3	3.2	2.2	1.1	0.0	0.0	0.0	0.0
102.5°	4.3	4.3	4.3	3.2	2.2	1.1	0.0	0.0	0.0	0.0
105°	4.3	5.4	4.3	3.2	2.2	1.1	0.0	0.0	0.0	0.0
107.5°	4.3	5.4	4.3	3.2	2.2	1.1	0.0	0.0	0.0	0.0
110°	4.3	5.4	4.3	3.2	2.2	1.1	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°
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)