

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: P579521

Luminaire Tested: **CST-CA10-210-750-U-T5-HSS-HM-EX180**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579521
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-CA10-210-750-U-T5-HSS-HM-EX180
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: 21918 lumens
Efficiency: N/A
Efficacy: 102.9 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

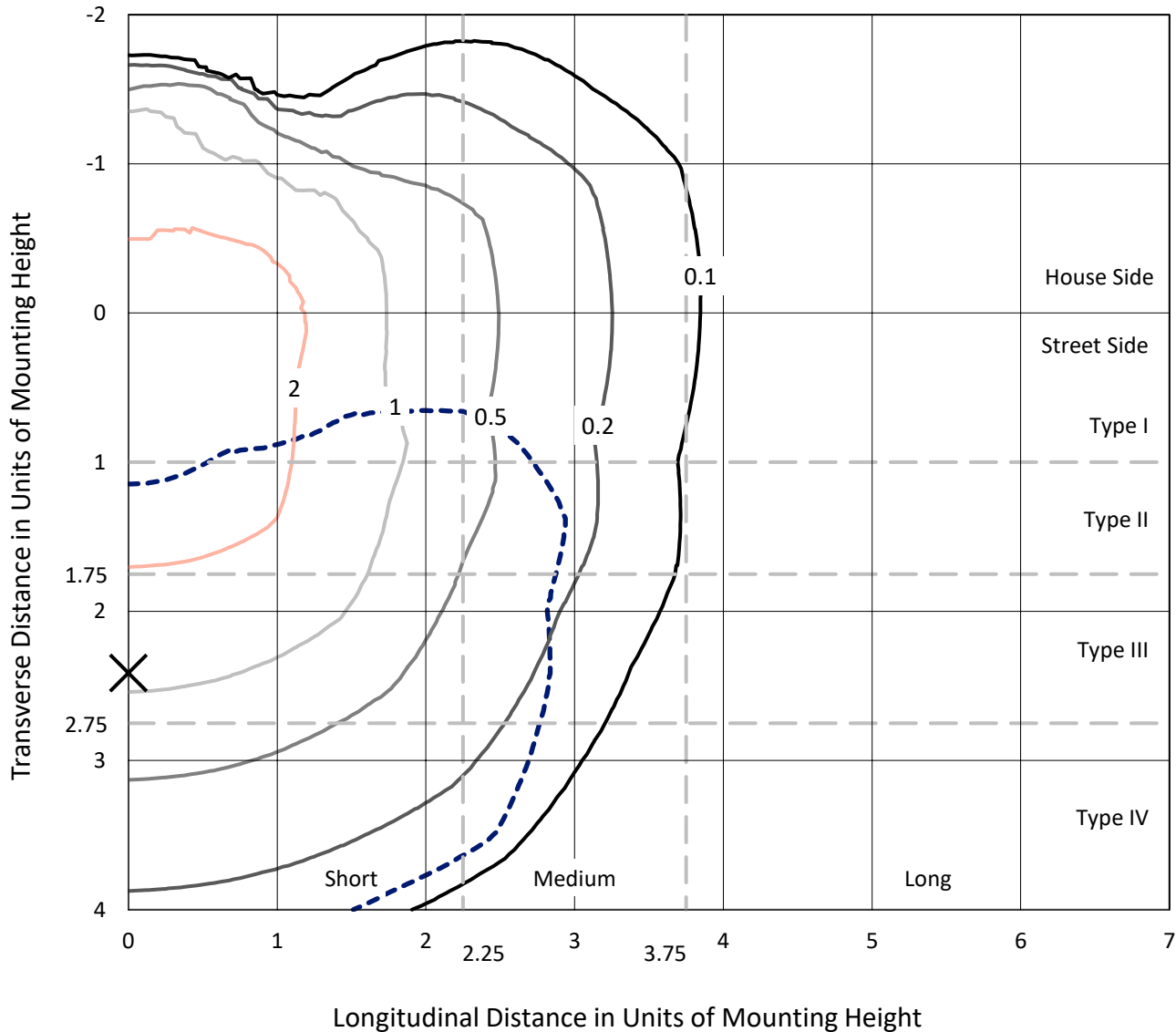




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Iso-Footcandle Lines of Horizontal Illumination

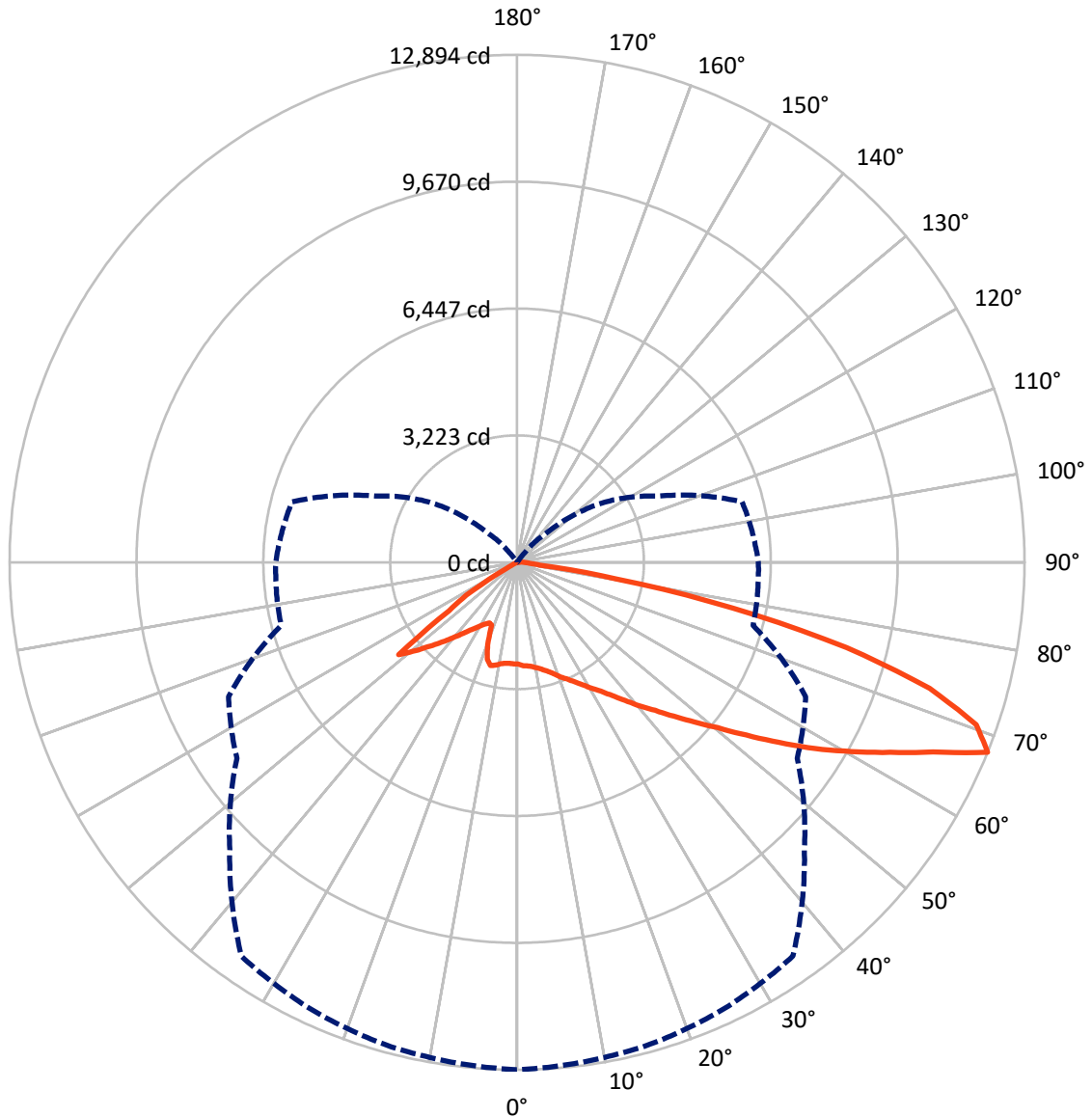
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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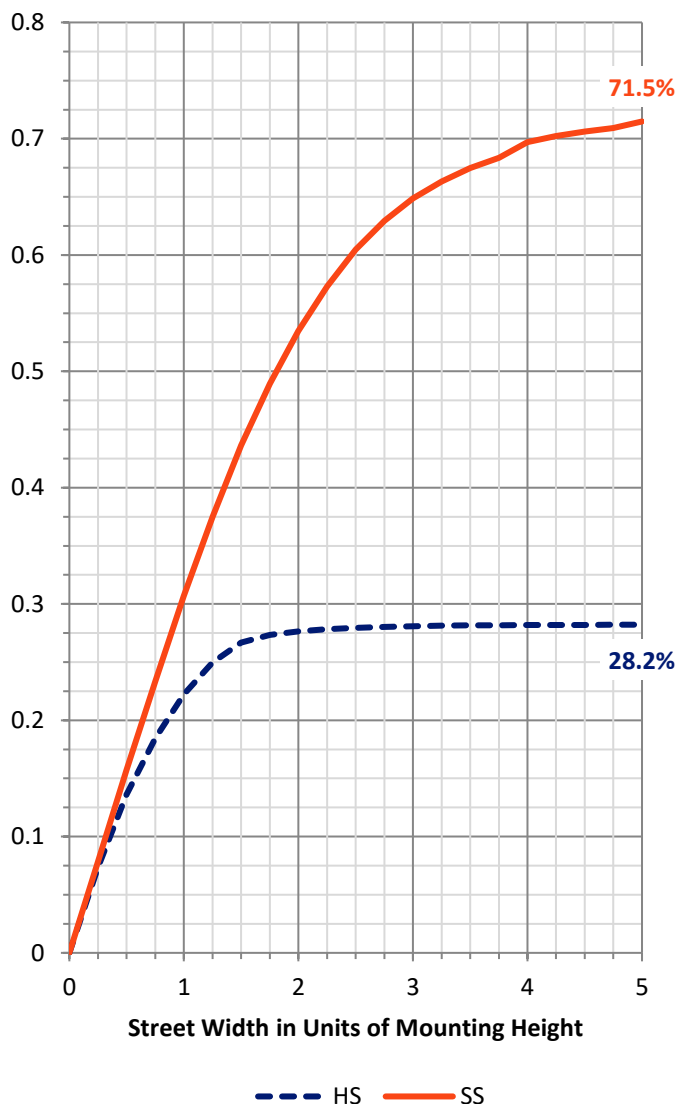
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6212.0	0.1	6212.1
	% Fixture	28.3	0.0	28.3
Street Side	Lumens	15678.0	27.9	15706.0
	% Fixture	71.5	0.1	71.7
Total	Lumens	21890.0	28.0	21918.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.9	1.1
10°-20°	766.4	3.5
20°-30°	1269.0	5.8
30°-40°	1997.6	9.1
40°-50°	3126.2	14.3
50°-60°	4513.7	20.6
60°-70°	5591.7	25.5
70°-80°	4072.3	18.6
80°-90°	304.2	1.4
90°-100°	23.9	0.1
100°-110°	4.0	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°	21890.0	99.9
0°-180°	21918.0	100.0

Coefficient of Utilization



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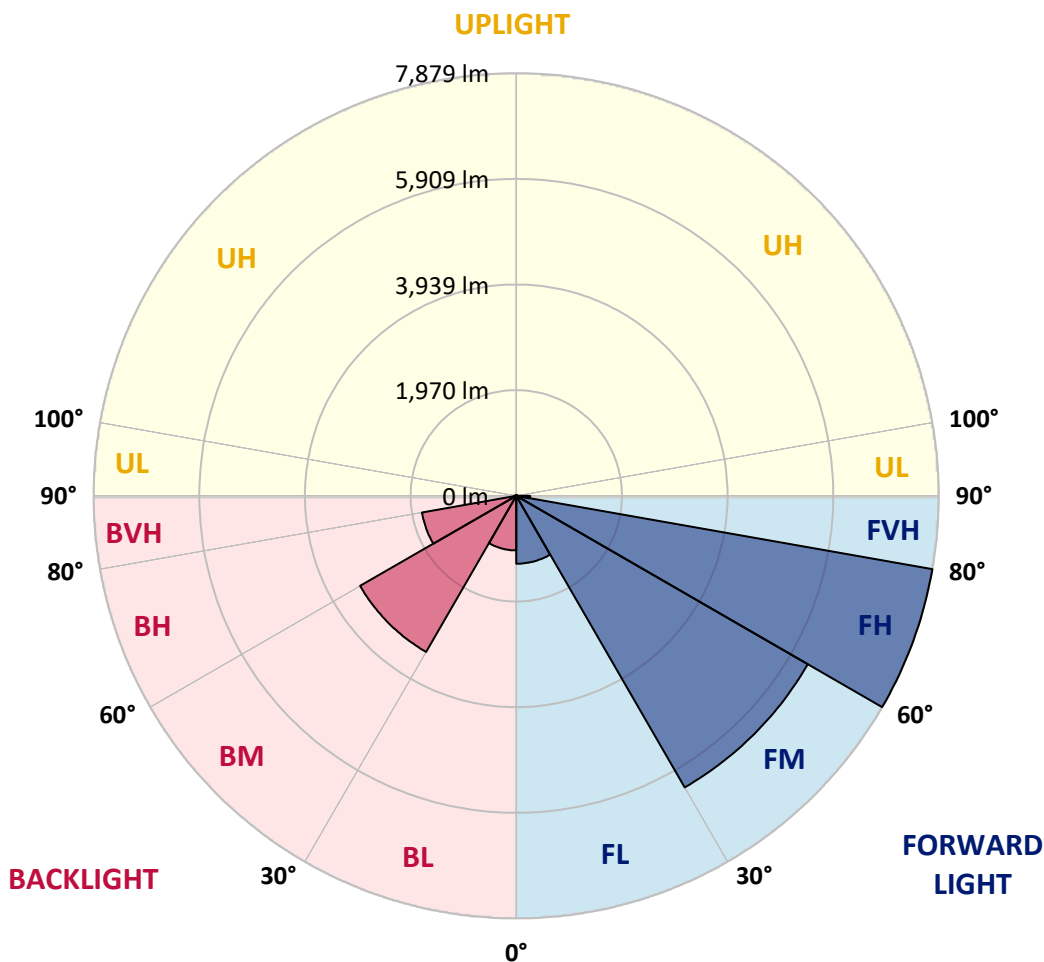
CATALOG NUMBER: CST-CA10-210-750-U-T5-HSS-HM-EX180

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1265.9	5.8			
FM (30°-60°)	6276.7	28.6			
FH (60°-80°)	7878.8	35.9			G4/12000
FVH (80°-90°)	256.6	1.2			G3/500
BL (0°-30°)	1018.3	4.6	B3/2500		
BM (30°-60°)	3360.8	15.3	B3/5000		
BH (60°-80°)	1785.2	8.1	B3/2500		G3/2500
BVH (80°-90°)	47.6	0.2			G1/100
UL (90°-100°)	23.9	0.1		U2/50	
UH (100°-180°)	4.1	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°	2581.4	2581.4	2581.4	2581.4	2581.4	2581.4	2581.4	2581.4	2581.4	2581.4	2581.4
2.5°	2628.6	2614.3	2614.3	2629.7	2586.9	2600.0	2582.5	2597.9	2589.1	2593.5	2599.0
5°	2644.0	2627.5	2628.6	2647.3	2608.8	2619.8	2599.0	2606.6	2599.0	2602.2	2602.2
7.5°	2672.5	2658.3	2658.3	2669.3	2630.8	2634.1	2615.4	2615.4	2605.5	2613.2	2606.6
10°	2726.4	2711.0	2703.3	2708.8	2674.7	2670.4	2645.1	2645.1	2629.7	2641.8	2631.9
12.5°	2791.2	2769.2	2767.0	2768.1	2729.7	2722.0	2693.4	2694.5	2666.0	2682.4	2670.4
15°	2869.2	2841.7	2839.5	2843.9	2803.3	2789.0	2757.1	2757.1	2725.3	2734.1	2717.6
17.5°	2969.1	2937.3	2931.8	2939.5	2898.8	2885.6	2848.3	2841.7	2806.6	2800.0	2785.7
20°	3100.9	3064.7	3053.7	3070.2	3018.6	3006.5	2961.4	2947.2	2899.9	2821.9	2719.8
22.5°	3219.6	3191.0	3184.4	3195.4	3148.2	3136.1	3092.2	3062.5	2948.3	2791.2	2696.7
25°	3354.7	3343.7	3340.4	3333.8	3291.0	3270.1	3228.4	3186.6	2927.4	2712.1	2709.9
27.5°	3521.7	3516.2	3500.8	3495.3	3448.1	3434.9	3380.0	3110.8	2852.7	2837.3	2828.5
30°	3704.0	3693.0	3677.6	3678.7	3646.9	3622.7	3492.0	3043.8	2996.6	2996.6	2973.5
32.5°	3906.1	3894.0	3878.7	3882.0	3868.8	3847.9	3454.7	3220.7	3184.4	3194.3	3165.8
35°	4156.6	4136.8	4131.3	4144.5	4145.6	4010.5	3520.6	3461.2	3432.7	3426.1	3318.4
37.5°	4448.8	4432.3	4452.1	4482.8	4447.7	4052.2	3783.1	3764.4	3735.9	3576.6	3321.7
40°	4799.2	4769.5	4793.7	4813.4	4790.4	4300.5	4058.8	4065.4	4040.1	3567.8	3285.5
42.5°	5146.3	5117.7	5138.6	5188.0	5179.2	4608.0	4394.9	4409.2	4154.4	3588.7	3566.7
45°	5575.8	5565.9	5559.3	5599.9	5634.0	4976.0	4793.7	4792.6	4073.1	3920.4	3900.6
47.5°	6062.4	6049.2	6052.5	6104.1	6155.8	5415.4	5264.9	4823.3	4282.9	4298.3	4280.7
50°	6605.0	6590.7	6633.6	6708.3	6734.6	5908.6	5724.1	4739.8	4720.1	4736.6	4706.9
52.5°	7293.8	7261.9	7327.8	7408.0	7442.1	6491.9	5749.3	5233.1	5200.1	5203.4	5108.9
55°	8077.0	8051.7	8111.0	8201.1	8251.6	7143.3	6274.4	5713.1	5693.3	5133.1	4622.3
57.5°	8928.3	8899.7	8978.8	9005.2	9018.3	7816.6	6802.8	6233.7	5318.7	4687.1	4658.6
60°	9763.1	9732.3	9832.3	9836.7	9875.1	8488.9	7304.7	6735.7	5124.3	5040.8	5016.7
62.5°	10639.7	10601.2	10689.1	10685.8	10610.0	9104.0	7802.3	7218.0	5471.4	5405.5	5368.2
65°	11612.9	11584.3	11645.9	11547.0	11396.5	9740.0	8318.6	7743.0	5875.7	5863.6	5854.8
67.5°	12893.7	12837.7	12713.6	12502.6	12214.9	10323.3	8687.7	8089.0	6204.1	6148.1	6130.5
70°	12378.5	12312.6	12218.1	11986.4	11693.1	9775.2	8094.5	7566.2	5801.0	5803.2	5761.4
72.5°	10960.4	10846.2	10757.2	10432.1	10270.6	8537.2	7053.2	6566.6	5017.8	5111.1	5091.4
75°	8646.0	8529.5	8383.4	8256.0	8238.4	6924.7	5686.7	5336.3	4000.6	4068.7	4118.1
77.5°	5604.3	5561.5	5746.0	5625.2	5734.0	4768.4	4062.1	3761.1	2757.1	2929.6	2906.5
80°	2564.9	2515.5	2812.1	2728.6	2769.2	2341.9	1984.9	1906.9	1247.8	1256.6	1283.0
82.5°	580.0	560.2	581.1	533.9	520.7	440.5	387.8	351.5	220.8	234.0	246.1
85°	317.5	317.5	313.1	291.1	249.3	205.4	162.6	125.2	68.1	74.7	73.6
87.5°	223.0	217.5	216.4	193.3	165.9	140.6	112.0	80.2	38.4	26.4	24.2
90°	152.7	150.5	142.8	128.5	110.9	91.2	68.1	39.5	16.5	7.7	5.5
92.5°	110.9	108.7	103.3	91.2	75.8	61.5	45.0	26.4	13.2	5.5	1.1
95°	73.6	72.5	69.2	59.3	49.4	39.5	28.6	16.5	11.0	4.4	1.1
97.5°	50.5	49.4	46.1	39.5	31.9	25.3	17.6	12.1	8.8	3.3	1.1
100°	34.1	33.0	30.8	25.3	19.8	15.4	11.0	8.8	6.6	3.3	1.1
102.5°	22.0	20.9	18.7	15.4	11.0	8.8	7.7	6.6	4.4	2.2	1.1
105°	13.2	12.1	9.9	7.7	6.6	5.5	5.5	4.4	3.3	1.1	1.1
107.5°	6.6	5.5	4.4	4.4	4.4	3.3	3.3	3.3	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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 CATALOG NUMBER: CST-CA10-210-750-U-T5-HSS-HM-EX180

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°	2581.4	2581.4	2581.4	2581.4	2581.4	2581.4	2581.4	2581.4	2581.4	2581.4
2.5°	2593.5	2575.9	2585.8	2570.4	2567.1	2550.6	2577.0	2580.3	2578.1	2582.5
5°	2596.8	2578.1	2589.1	2570.4	2570.4	2552.8	2578.1	2578.1	2571.5	2573.7
7.5°	2605.5	2586.9	2594.6	2573.7	2574.8	2553.9	2584.7	2581.4	2575.9	2583.6
10°	2630.8	2609.9	2608.8	2589.1	2593.5	2571.5	2609.9	2609.9	2604.4	2618.7
12.5°	2671.4	2640.7	2635.2	2611.0	2619.8	2601.1	2648.4	2650.6	2651.7	2674.7
15°	2714.3	2676.9	2682.4	2653.9	2650.6	2640.7	2683.5	2681.3	2680.2	2712.1
17.5°	2774.7	2599.0	2570.4	2550.6	2546.2	2522.1	2561.6	2637.4	2597.9	2575.9
20°	2679.1	2586.9	2473.7	2435.3	2427.6	2217.8	2051.9	2126.6	2227.7	2236.5
22.5°	2592.4	2559.4	2550.6	2490.2	2155.2	2084.9	2091.5	2064.0	1824.5	1720.2
25°	2700.0	2671.4	2634.1	2265.0	2185.9	2160.7	2153.0	1871.8	1682.8	1694.9
27.5°	2819.7	2787.9	2462.7	2270.5	2288.1	2252.9	2079.4	1746.5	1735.6	1756.4
30°	2969.1	2714.3	2403.4	2392.4	2408.9	2363.9	1847.6	1823.4	1820.1	1842.1
32.5°	3139.4	2617.6	2561.6	2561.6	2553.9	2067.3	1946.5	1930.0	1938.8	1961.8
35°	3075.7	2769.2	2762.6	2790.1	2605.5	2121.1	2104.6	2076.1	2082.7	2090.4
37.5°	3005.4	3018.6	3021.9	3007.6	1900.3	2274.9	2261.7	2256.2	2249.6	2251.8
40°	3266.8	3275.6	3272.3	3141.6	2050.8	2304.6	2439.7	2429.8	2428.7	2441.9
42.5°	3572.2	3596.4	3577.7	2771.4	2251.8	1937.7	2645.1	2639.6	2637.4	2664.9
45°	3916.0	3939.1	3546.9	2968.0	2466.0	2005.8	2659.4	2863.7	2880.2	2904.3
47.5°	4288.4	4284.0	3273.4	3270.1	2717.6	2194.7	2211.2	3131.7	3159.2	3168.0
50°	4716.8	4012.7	3584.3	3463.4	3002.1	2406.7	2344.1	2873.6	3479.9	3488.7
52.5°	4625.6	3969.8	3941.3	3038.3	3256.9	2640.7	2579.2	2562.7	3607.3	3819.3
55°	4311.4	4344.4	4303.8	3333.8	2388.0	2849.4	2811.0	2794.5	2683.5	2124.4
57.5°	4660.8	4670.6	4635.5	3605.1	2428.7	1776.2	2767.0	2373.8	1542.2	1534.5
60°	5023.2	5039.7	3452.5	2648.4	1556.5	594.3	141.7	149.4	426.2	374.6
62.5°	5369.3	5385.7	3654.6	2419.9	983.1	43.9	28.6	19.8	22.0	22.0
65°	5820.7	5827.3	3911.6	2561.6	1021.6	11.0	3.3	0.0	0.0	0.0
67.5°	6054.7	5919.6	3976.4	2626.4	1049.0	6.6	2.2	0.0	0.0	0.0
70°	5701.0	5556.0	3701.8	2461.6	977.6	5.5	1.1	0.0	0.0	0.0
72.5°	5023.2	4952.9	3322.8	2182.6	865.6	3.3	1.1	0.0	0.0	0.0
75°	4163.2	4069.8	2754.9	1819.0	716.2	2.2	0.0	0.0	0.0	0.0
77.5°	2961.4	2972.4	1920.1	1325.8	487.7	2.2	0.0	0.0	0.0	0.0
80°	1296.2	1325.8	841.4	608.5	172.5	1.1	0.0	0.0	0.0	0.0
82.5°	247.2	227.4	109.8	86.8	22.0	0.0	0.0	0.0	0.0	0.0
85°	81.3	89.0	40.6	33.0	9.9	0.0	0.0	0.0	0.0	0.0
87.5°	28.6	36.2	12.1	9.9	2.2	0.0	0.0	0.0	0.0	0.0
90°	4.4	4.4	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: P579521
 CATALOG NUMBER: CST-CA10-210-750-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)