

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: P579593

Luminaire Tested: **CST-CA6-230-760-U-T5-HSS-HM-EX180**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579593  
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-CA6-230-760-U-T5-HSS-HM-EX180  
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD  
Light Source: (6) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21179 lumens  
Efficiency: N/A  
Efficacy: 93.0 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U2 - G4

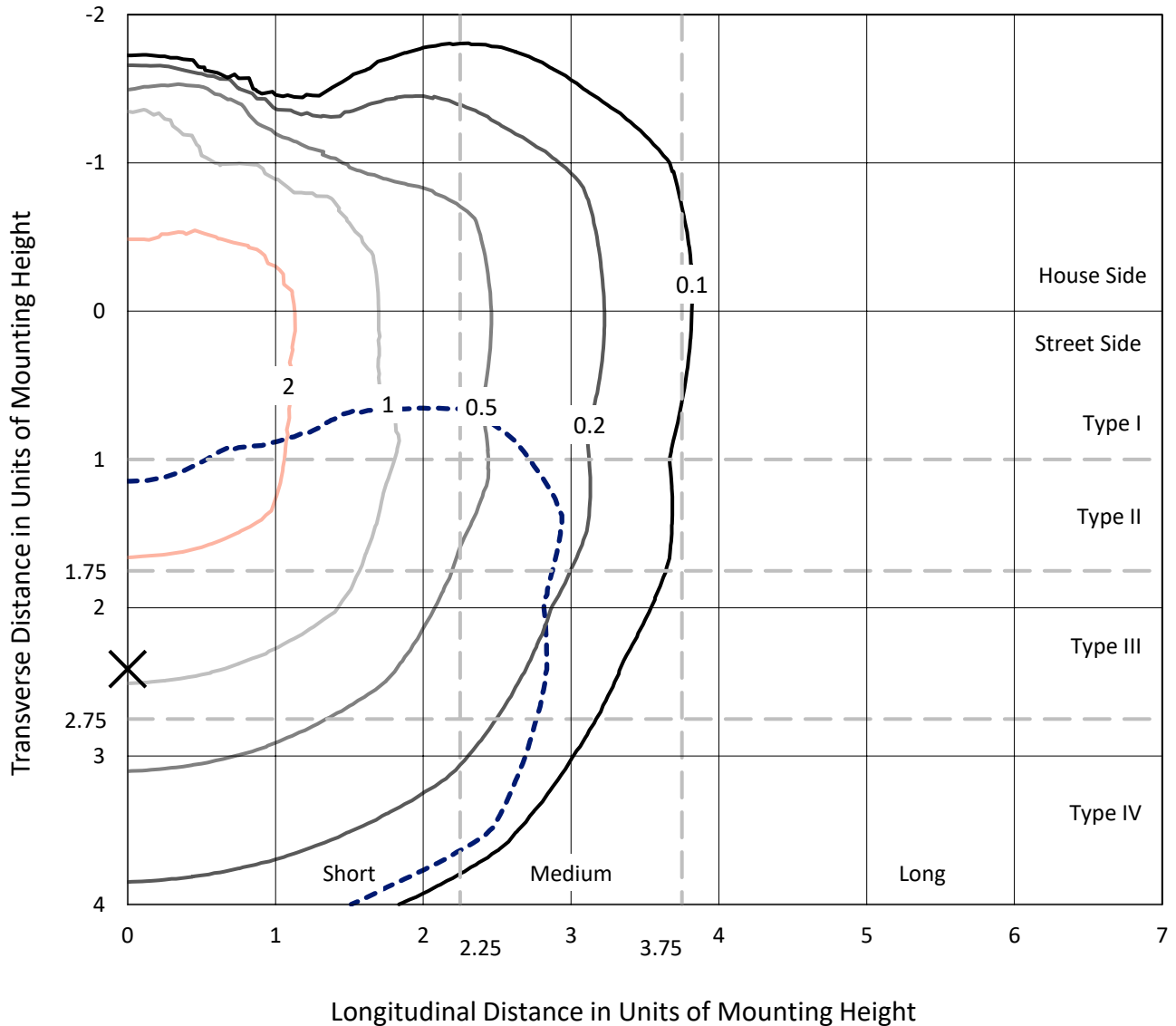
Input Watts (W): 227.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

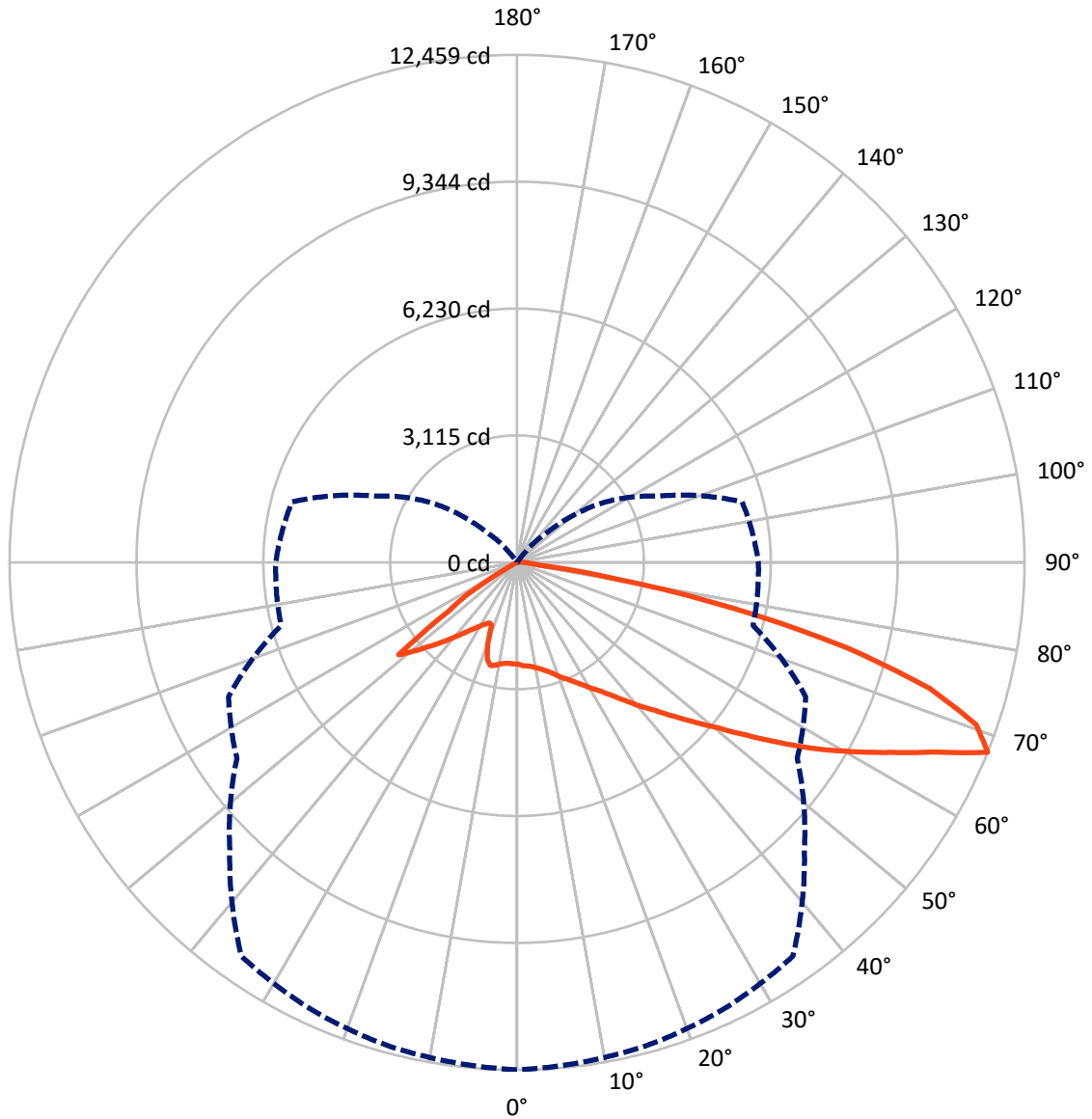
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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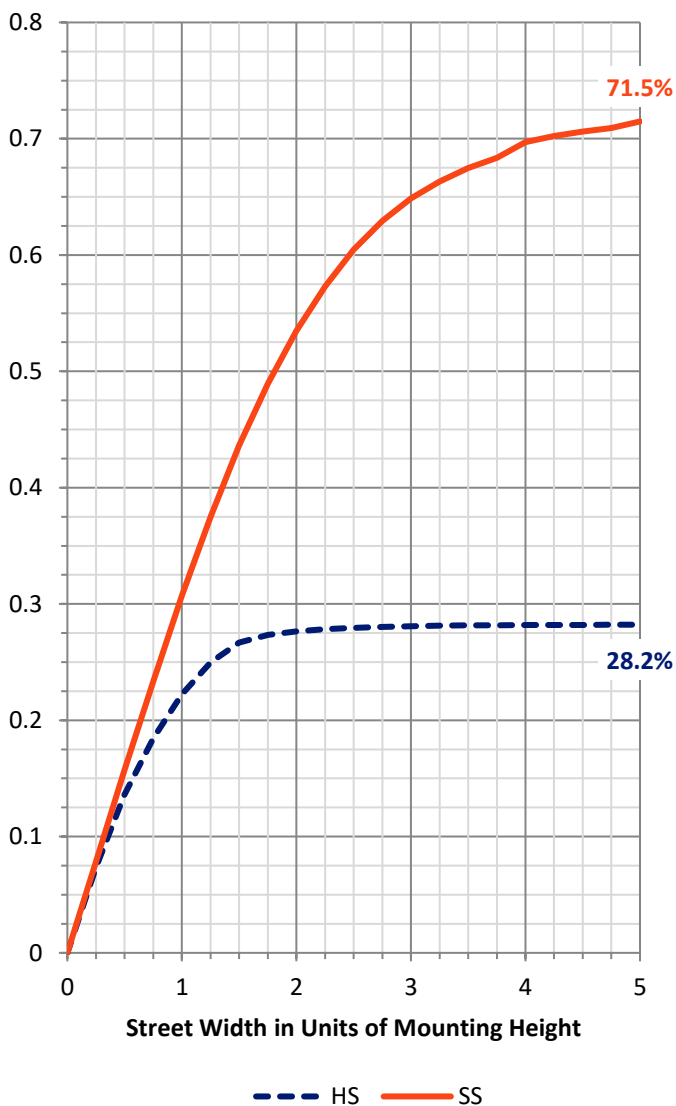
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6002.5	0.1	6002.6
	% Fixture	28.3	0.0	28.3
<b>Street Side</b>	Lumens	15149.4	27.0	15176.4
	% Fixture	71.5	0.1	71.7
<b>Total</b>	Lumens	21152.0	27.1	21179.0
	% Fixture	99.9	0.1	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.5	1.1
10°-20°	740.5	3.5
20°-30°	1226.2	5.8
30°-40°	1930.2	9.1
40°-50°	3020.8	14.3
50°-60°	4361.5	20.6
60°-70°	5403.2	25.5
70°-80°	3935.0	18.6
80°-90°	294.0	1.4
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90°-100°	23.1	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
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0°-90°	21152.0	99.9
0°-180°	21179.0	100.0

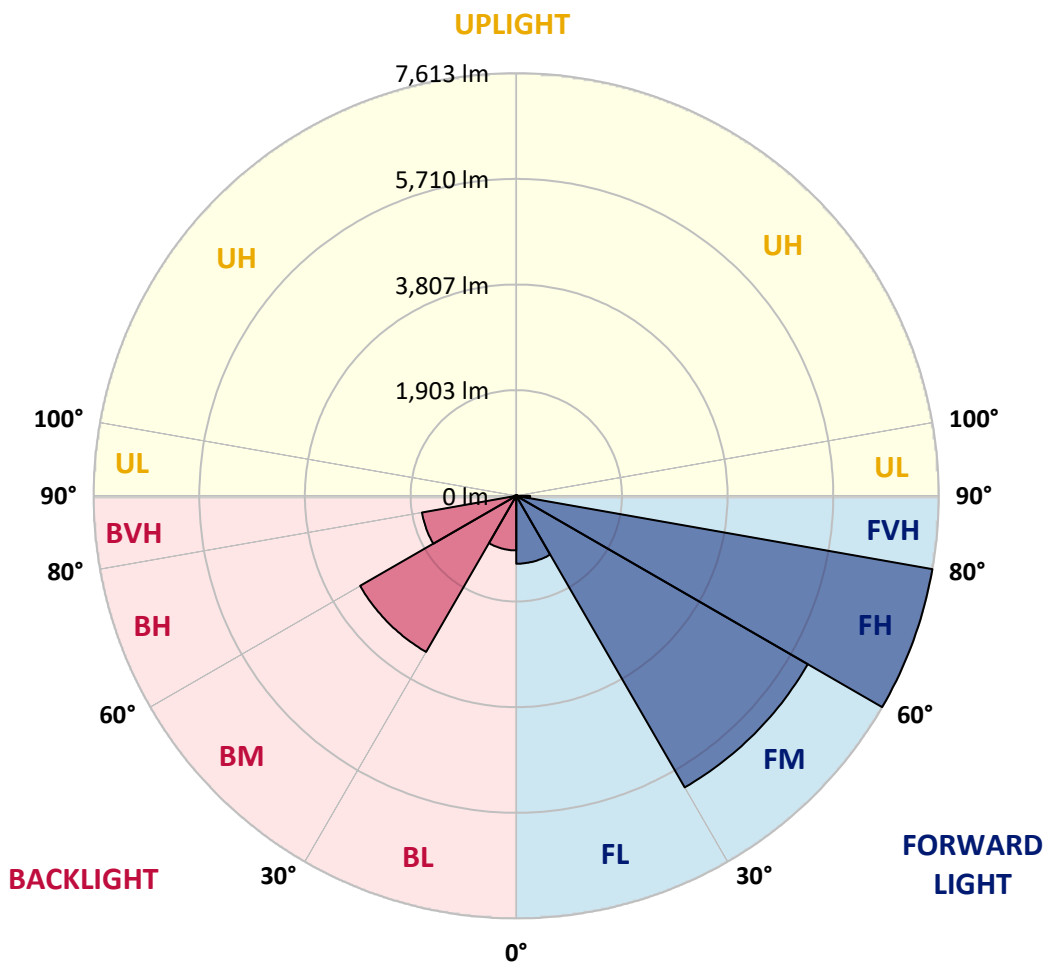


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1223.3	5.8			
FM (30°-60°)	6065.1	28.6			
FH (60°-80°)	7613.2	35.9			G4/12000
FVH (80°-90°)	248.0	1.2			G3/500
BL (0°-30°)	984.0	4.6	B2/1000		
BM (30°-60°)	3247.5	15.3	B3/5000		
BH (60°-80°)	1725.0	8.1	B3/2500		G3/2500
BVH (80°-90°)	46.0	0.2			G1/100
UL (90°-100°)	23.1	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°	2494.3	2494.3	2494.3	2494.3	2494.3	2494.3	2494.3	2494.3	2494.3	2494.3	2494.3
2.5°	2540.0	2526.2	2526.2	2541.0	2499.6	2512.4	2495.4	2510.3	2501.8	2506.0	2511.3
5°	2554.8	2538.9	2540.0	2558.0	2520.9	2531.5	2511.3	2518.8	2511.3	2514.5	2514.5
7.5°	2582.4	2568.6	2568.6	2579.3	2542.1	2545.3	2527.2	2527.2	2517.7	2525.1	2518.8
10°	2634.4	2619.6	2612.2	2617.5	2584.6	2580.3	2555.9	2555.9	2541.0	2552.7	2543.2
12.5°	2697.1	2675.8	2673.7	2674.8	2637.6	2630.2	2602.6	2603.7	2576.1	2592.0	2580.3
15°	2772.4	2745.9	2743.8	2748.0	2708.7	2694.9	2664.2	2664.2	2633.4	2641.9	2626.0
17.5°	2869.0	2838.2	2832.9	2840.4	2801.1	2788.4	2752.3	2745.9	2711.9	2705.6	2691.8
20°	2996.4	2961.4	2950.8	2966.7	2916.8	2905.1	2861.6	2847.8	2802.2	2726.8	2628.1
22.5°	3111.0	3083.4	3077.1	3087.7	3042.0	3030.4	2987.9	2959.2	2848.9	2697.1	2605.8
25°	3241.6	3231.0	3227.8	3221.4	3180.0	3159.9	3119.5	3079.2	2828.7	2620.7	2618.5
27.5°	3402.9	3397.6	3382.8	3377.4	3331.8	3319.1	3266.0	3005.9	2756.5	2741.7	2733.2
30°	3579.1	3568.5	3553.6	3554.7	3523.9	3500.6	3374.3	2941.2	2895.6	2895.6	2873.3
32.5°	3774.4	3762.7	3747.9	3751.1	3738.3	3718.2	3338.2	3112.1	3077.1	3086.6	3059.0
35°	4016.4	3997.3	3992.0	4004.7	4005.8	3875.3	3401.9	3344.5	3316.9	3310.6	3206.6
37.5°	4298.8	4282.8	4301.9	4331.7	4297.7	3915.6	3655.5	3637.5	3609.9	3456.0	3209.7
40°	4637.4	4608.7	4632.0	4651.1	4628.9	4155.5	3922.0	3928.3	3903.9	3447.5	3174.7
42.5°	4972.8	4945.2	4965.3	5013.1	5004.6	4452.7	4246.7	4260.5	4014.3	3467.7	3446.4
45°	5387.8	5378.2	5371.9	5411.1	5444.0	4808.2	4632.0	4631.0	3935.8	3788.2	3769.1
47.5°	5858.0	5845.2	5848.4	5898.3	5948.2	5232.8	5087.4	4660.7	4138.5	4153.3	4136.4
50°	6382.3	6368.5	6409.9	6482.1	6507.6	5709.4	5531.1	4580.0	4560.9	4576.9	4548.2
52.5°	7047.8	7017.1	7080.7	7158.2	7191.1	6273.0	5555.5	5056.6	5024.8	5028.0	4936.7
55°	7804.6	7780.2	7837.5	7924.6	7973.4	6902.4	6062.8	5520.5	5501.3	4960.0	4466.5
57.5°	8627.2	8599.6	8676.1	8701.5	8714.3	7553.1	6573.4	6023.6	5139.4	4529.1	4501.5
60°	9433.9	9404.2	9500.8	9505.0	9542.2	8202.7	7058.5	6508.6	4951.5	4870.9	4847.5
62.5°	10280.9	10243.8	10328.7	10325.5	10252.3	8797.1	7539.3	6974.6	5286.9	5223.3	5187.2
65°	11221.4	11193.8	11253.2	11157.7	11012.3	9411.6	8038.1	7482.0	5677.5	5665.9	5657.4
67.5°	12459.0	12404.8	12284.9	12081.1	11803.0	9975.2	8394.8	7816.3	5994.9	5940.8	5923.8
70°	11961.2	11897.5	11806.2	11582.2	11298.8	9445.6	7821.6	7311.1	5605.4	5607.5	5567.2
72.5°	10590.9	10480.5	10394.5	10080.3	9924.3	8249.4	6815.4	6345.2	4848.6	4938.8	4919.7
75°	8354.5	8241.9	8100.8	7977.6	7960.7	6691.2	5495.0	5156.4	3865.7	3931.5	3979.3
77.5°	5415.4	5374.0	5552.3	5435.5	5540.6	4607.6	3925.1	3634.3	2664.2	2830.8	2808.5
80°	2478.4	2430.7	2717.2	2636.6	2675.8	2263.0	1918.0	1842.6	1205.8	1214.3	1239.7
82.5°	560.4	541.3	561.5	515.9	503.1	425.6	374.7	339.7	213.3	226.1	237.8
85°	306.8	306.8	302.5	281.3	240.9	198.5	157.1	121.0	65.8	72.2	71.1
87.5°	215.5	210.2	209.1	186.8	160.3	135.9	108.3	77.5	37.1	25.5	23.4
90°	147.5	145.4	138.0	124.2	107.2	88.1	65.8	38.2	15.9	7.4	5.3
92.5°	107.2	105.1	99.8	88.1	73.2	59.4	43.5	25.5	12.7	5.3	1.1
95°	71.1	70.1	66.9	57.3	47.8	38.2	27.6	15.9	10.6	4.2	1.1
97.5°	48.8	47.8	44.6	38.2	30.8	24.4	17.0	11.7	8.5	3.2	1.1
100°	32.9	31.8	29.7	24.4	19.1	14.9	10.6	8.5	6.4	3.2	1.1
102.5°	21.2	20.2	18.0	14.9	10.6	8.5	7.4	6.4	4.2	2.1	1.1
105°	12.7	11.7	9.6	7.4	6.4	5.3	5.3	4.2	3.2	1.1	1.1
107.5°	6.4	5.3	4.2	4.2	4.2	3.2	3.2	3.2	2.1	1.1	0.0
110°	1.1	1.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	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°	2494.3	2494.3	2494.3	2494.3	2494.3	2494.3	2494.3	2494.3	2494.3	2494.3
2.5°	2506.0	2489.0	2498.6	2483.7	2480.5	2464.6	2490.1	2493.3	2491.2	2495.4
5°	2509.2	2491.2	2501.8	2483.7	2483.7	2466.7	2491.2	2491.2	2484.8	2486.9
7.5°	2517.7	2499.6	2507.1	2486.9	2488.0	2467.8	2497.5	2494.3	2489.0	2496.5
10°	2542.1	2521.9	2520.9	2501.8	2506.0	2484.8	2521.9	2521.9	2516.6	2530.4
12.5°	2581.4	2551.7	2546.4	2523.0	2531.5	2513.4	2559.1	2561.2	2562.3	2584.6
15°	2622.8	2586.7	2592.0	2564.4	2561.2	2551.7	2593.1	2590.9	2589.9	2620.7
17.5°	2681.2	2511.3	2483.7	2464.6	2460.4	2437.0	2475.2	2548.5	2510.3	2489.0
20°	2588.8	2499.6	2390.3	2353.2	2345.7	2143.0	1982.7	2054.9	2152.6	2161.1
22.5°	2505.0	2473.1	2464.6	2406.2	2082.5	2014.6	2020.9	1994.4	1763.0	1662.2
25°	2609.0	2581.4	2545.3	2188.7	2112.2	2087.8	2080.4	1808.7	1626.1	1637.8
27.5°	2724.7	2693.9	2379.7	2194.0	2210.9	2177.0	2009.3	1687.7	1677.0	1697.2
30°	2869.0	2622.8	2322.4	2311.8	2327.7	2284.2	1785.3	1762.0	1758.8	1780.0
32.5°	3033.5	2529.4	2475.2	2475.2	2467.8	1997.6	1880.8	1864.9	1873.4	1895.7
35°	2972.0	2675.8	2669.5	2696.0	2517.7	2049.6	2033.7	2006.1	2012.5	2019.9
37.5°	2904.0	2916.8	2920.0	2906.2	1836.3	2198.2	2185.5	2180.2	2173.8	2175.9
40°	3156.7	3165.2	3162.0	3035.7	1981.7	2226.9	2357.4	2347.9	2346.8	2359.5
42.5°	3451.7	3475.1	3457.1	2678.0	2175.9	1872.3	2555.9	2550.6	2548.5	2575.0
45°	3784.0	3806.3	3427.3	2868.0	2382.9	1938.2	2569.7	2767.1	2783.0	2806.4
47.5°	4143.8	4139.5	3163.0	3159.9	2626.0	2120.7	2136.6	3026.1	3052.6	3061.1
50°	4557.7	3877.4	3463.4	3346.7	2900.9	2325.6	2265.1	2776.7	3362.6	3371.1
52.5°	4469.6	3836.0	3808.4	2935.9	3147.1	2551.7	2492.2	2476.3	3485.7	3690.6
55°	4166.1	4197.9	4158.7	3221.4	2307.5	2753.3	2716.2	2700.3	2593.1	2052.8
57.5°	4503.6	4513.2	4479.2	3483.6	2346.8	1716.3	2673.7	2293.7	1490.2	1482.8
60°	4853.9	4869.8	3336.0	2559.1	1504.0	574.2	136.9	144.4	411.8	361.9
62.5°	5188.2	5204.2	3531.3	2338.3	950.0	42.5	27.6	19.1	21.2	21.2
65°	5624.5	5630.8	3779.7	2475.2	987.1	10.6	3.2	0.0	0.0	0.0
67.5°	5850.6	5720.0	3842.3	2537.9	1013.7	6.4	2.1	0.0	0.0	0.0
70°	5508.8	5368.7	3577.0	2378.6	944.7	5.3	1.1	0.0	0.0	0.0
72.5°	4853.9	4786.0	3210.8	2109.0	836.4	3.2	1.1	0.0	0.0	0.0
75°	4022.8	3932.6	2662.0	1757.7	692.0	2.1	0.0	0.0	0.0	0.0
77.5°	2861.6	2872.2	1855.4	1281.1	471.3	2.1	0.0	0.0	0.0	0.0
80°	1252.5	1281.1	813.0	588.0	166.6	1.1	0.0	0.0	0.0	0.0
82.5°	238.8	219.7	106.1	83.9	21.2	0.0	0.0	0.0	0.0	0.0
85°	78.5	86.0	39.3	31.8	9.6	0.0	0.0	0.0	0.0	0.0
87.5°	27.6	35.0	11.7	9.6	2.1	0.0	0.0	0.0	0.0	0.0
90°	4.2	4.2	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: P579593  
 CATALOG NUMBER: CST-CA6-230-760-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)