

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: P579545

Luminaire Tested: **CST-CA6-230-750-U-T5-HSS-HM-EX180**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579545
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-CA6-230-750-U-T5-HSS-HM-EX180
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (6) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21637 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U2 - G4

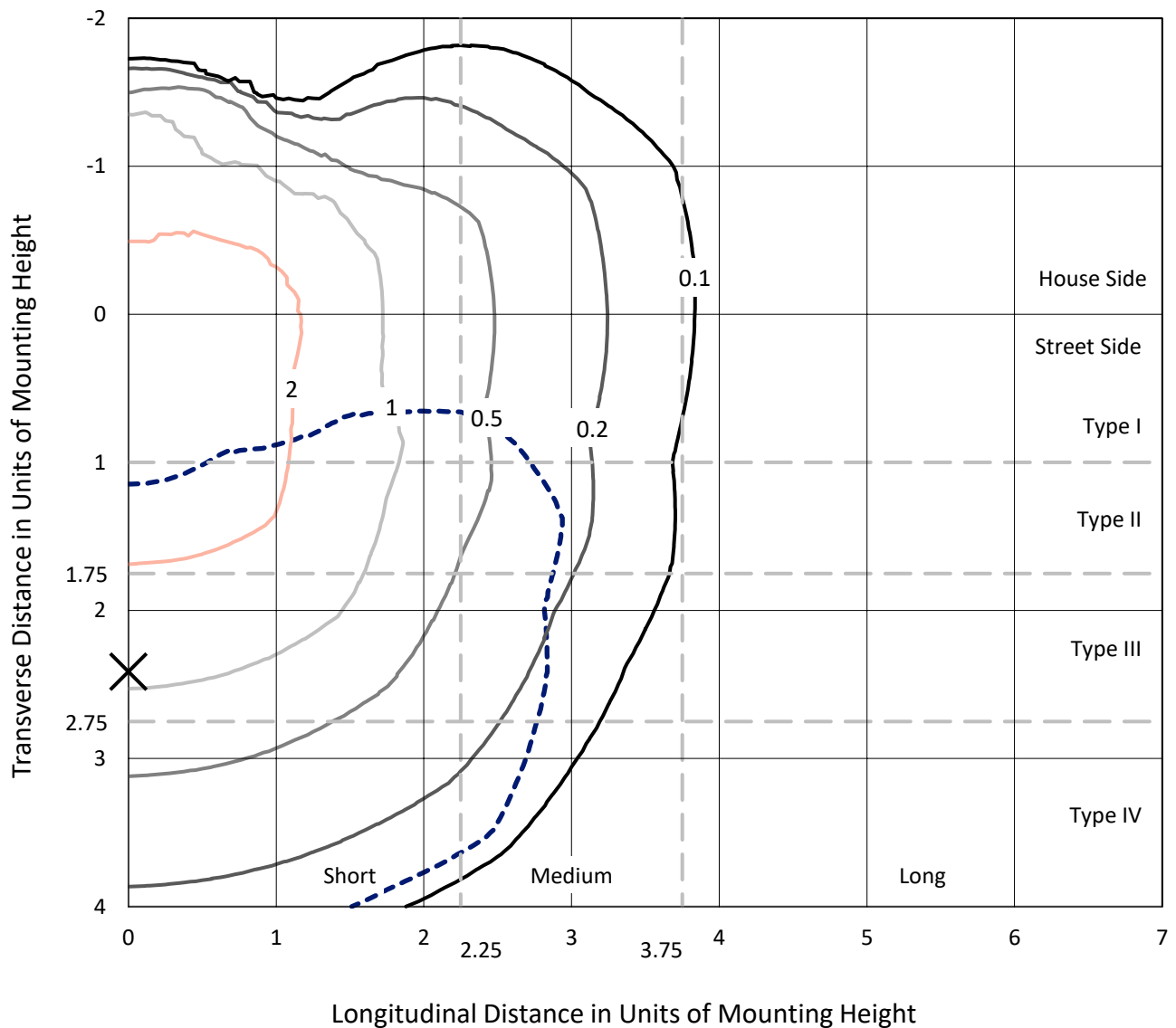
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

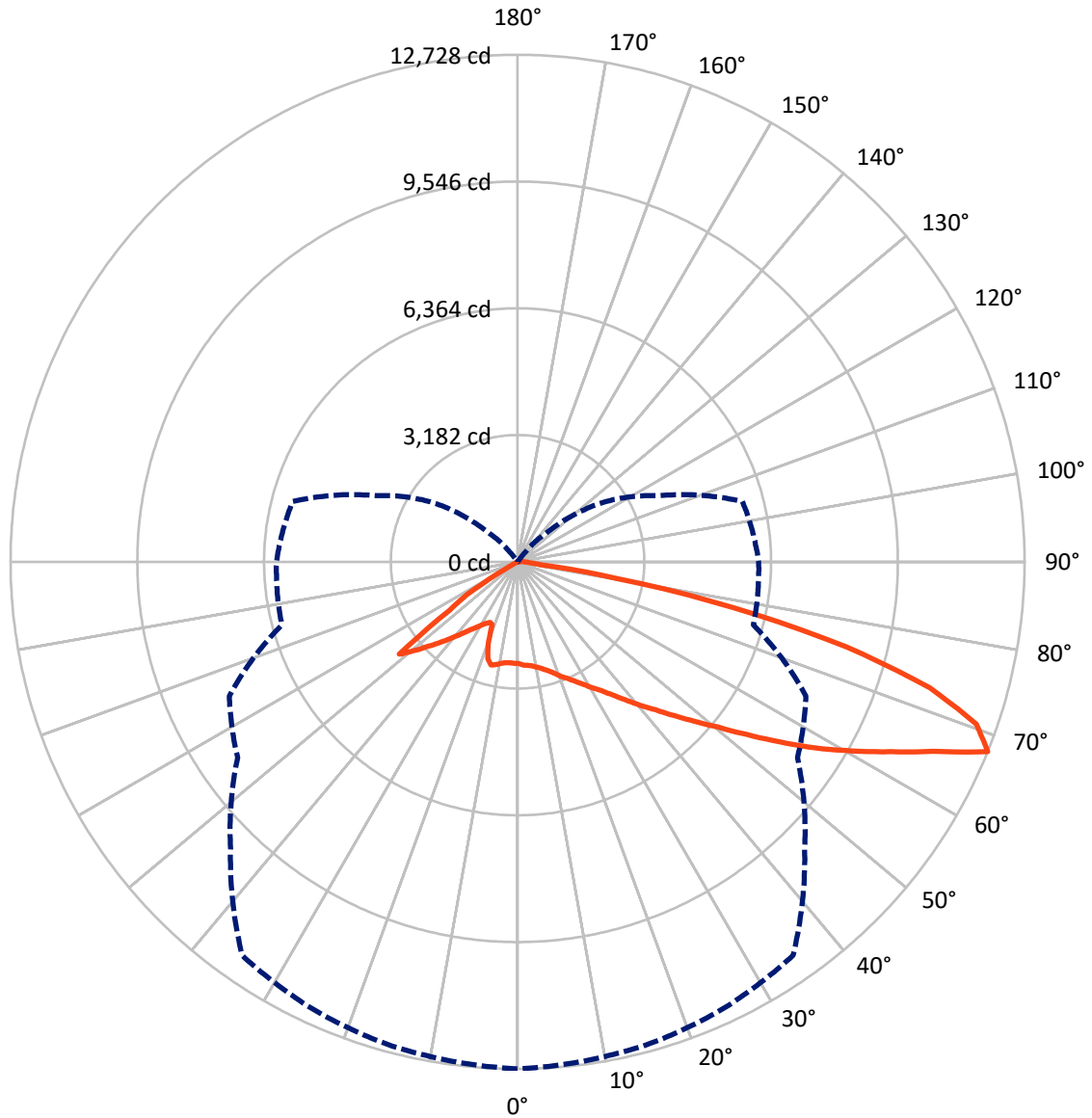
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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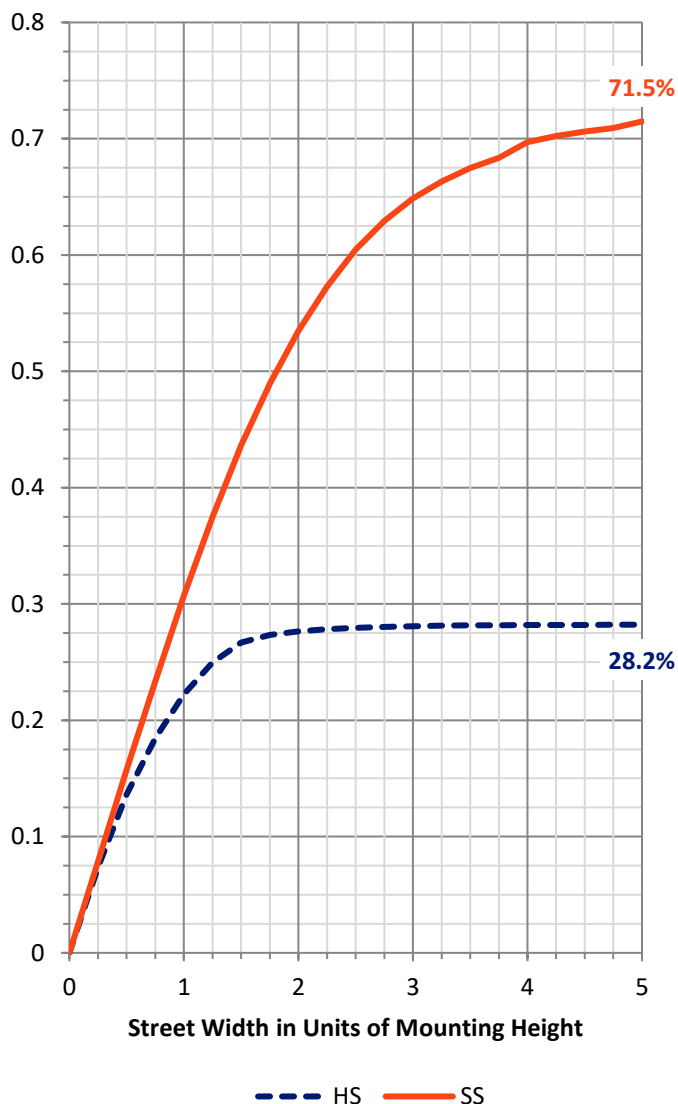
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6132.3	0.1	6132.4
	% Fixture	28.3	0.0	28.3
Street Side	Lumens	15477.0	27.6	15504.6
	% Fixture	71.5	0.1	71.7
Total	Lumens	21609.4	27.6	21637.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.7	1.1
10°-20°	756.5	3.5
20°-30°	1252.7	5.8
30°-40°	1972.0	9.1
40°-50°	3086.1	14.3
50°-60°	4455.9	20.6
60°-70°	5520.0	25.5
70°-80°	4020.1	18.6
80°-90°	300.3	1.4
90°-100°	23.6	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°	21609.4	99.9
0°-180°	21637.0	100.0

Coefficient of Utilization

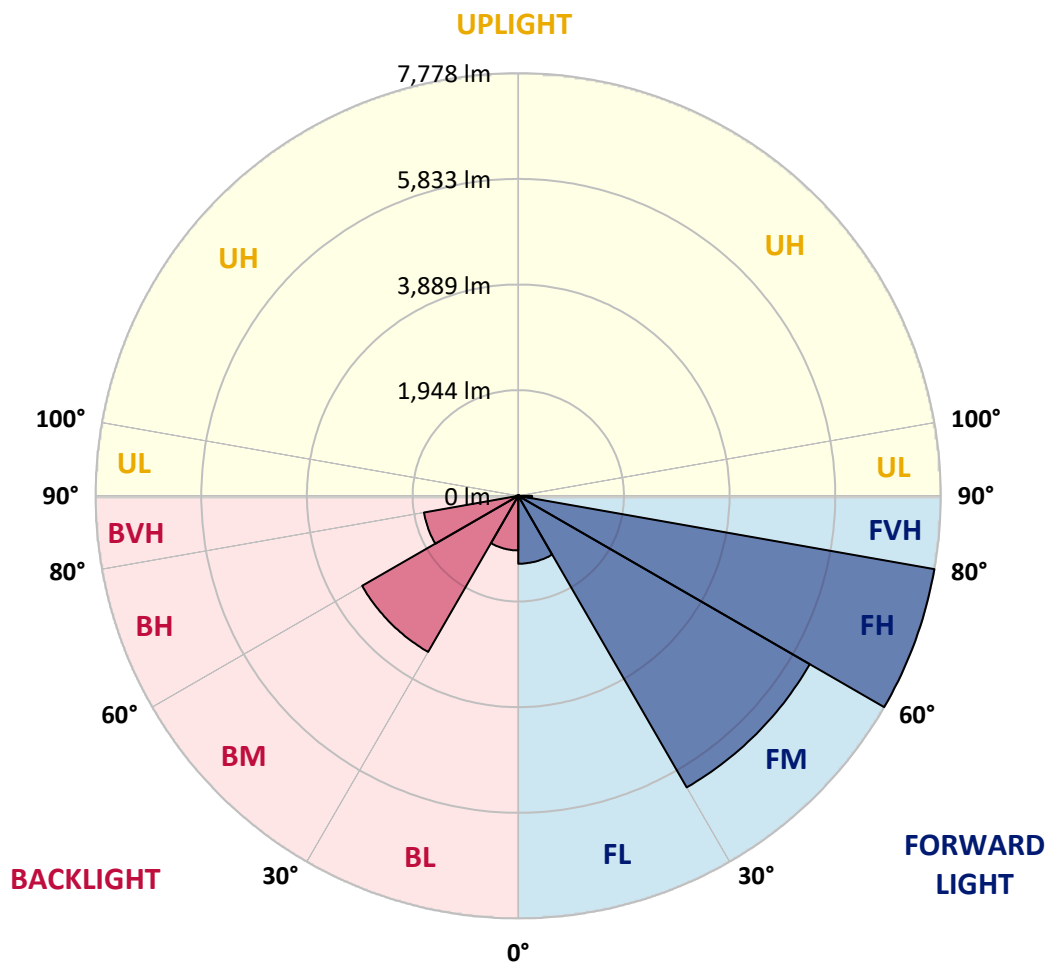


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 CATALOG NUMBER: CST-CA6-230-750-U-T5-HSS-HM-EX180

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1249.7	5.8			
FM (30°-60°)	6196.2	28.6			
FH (60°-80°)	7777.8	35.9			G4/12000
FVH (80°-90°)	253.3	1.2			G3/500
BL (0°-30°)	1005.3	4.6	B3/2500		
BM (30°-60°)	3317.7	15.3	B3/5000		
BH (60°-80°)	1762.3	8.1	B3/2500		G3/2500
BVH (80°-90°)	47.0	0.2			G1/100
UL (90°-100°)	23.6	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°	2548.3	2548.3	2548.3	2548.3	2548.3	2548.3	2548.3	2548.3	2548.3	2548.3	2548.3
2.5°	2594.9	2580.8	2580.8	2596.0	2553.7	2566.7	2549.4	2564.5	2555.9	2560.2	2565.6
5°	2610.1	2593.8	2594.9	2613.3	2575.4	2586.2	2565.6	2573.2	2565.6	2568.9	2568.9
7.5°	2638.3	2624.2	2624.2	2635.0	2597.1	2600.3	2581.9	2581.9	2572.1	2579.7	2573.2
10°	2691.4	2676.2	2668.6	2674.1	2640.5	2636.1	2611.2	2611.2	2596.0	2607.9	2598.2
12.5°	2755.4	2733.7	2731.5	2732.6	2694.7	2687.1	2658.9	2660.0	2631.8	2648.0	2636.1
15°	2832.4	2805.3	2803.1	2807.4	2767.3	2753.2	2721.8	2721.8	2690.3	2699.0	2682.7
17.5°	2931.1	2899.6	2894.2	2901.8	2861.7	2848.7	2811.8	2805.3	2770.6	2764.1	2750.0
20°	3061.2	3025.4	3014.6	3030.8	2979.9	2967.9	2923.5	2909.4	2862.8	2785.8	2684.9
22.5°	3178.3	3150.1	3143.6	3154.4	3107.8	3095.9	3052.5	3023.2	2910.5	2755.4	2662.1
25°	3311.7	3300.8	3297.6	3291.1	3248.8	3228.2	3187.0	3145.8	2889.9	2677.3	2675.2
27.5°	3476.5	3471.1	3455.9	3450.5	3403.9	3390.8	3336.6	3071.0	2816.1	2800.9	2792.3
30°	3656.5	3645.7	3630.5	3631.6	3600.1	3576.3	3447.2	3004.8	2958.2	2958.2	2935.4
32.5°	3856.0	3844.1	3828.9	3832.2	3819.2	3798.6	3410.4	3179.4	3143.6	3153.4	3125.2
35°	4103.3	4083.8	4078.3	4091.3	4092.4	3959.1	3475.4	3416.9	3388.7	3382.2	3275.9
37.5°	4391.7	4375.5	4395.0	4425.3	4390.6	4000.3	3734.6	3716.2	3688.0	3530.7	3279.2
40°	4737.6	4708.4	4732.2	4751.7	4729.0	4245.3	4006.8	4013.3	3988.3	3522.1	3243.4
42.5°	5080.3	5052.1	5072.7	5121.5	5112.8	4549.0	4338.6	4352.7	4101.1	3542.7	3521.0
45°	5504.3	5494.5	5488.0	5528.1	5561.8	4912.2	4732.2	4731.1	4020.9	3870.1	3850.6
47.5°	5984.7	5971.7	5974.9	6025.9	6076.8	5346.0	5197.4	4761.5	4228.0	4243.2	4225.8
50°	6520.3	6506.3	6548.5	6622.3	6648.3	5832.9	5650.7	4679.1	4659.6	4675.8	4646.5
52.5°	7200.3	7168.8	7233.9	7313.0	7346.6	6408.7	5675.6	5166.0	5133.4	5136.7	5043.4
55°	7973.4	7948.5	8007.0	8095.9	8145.8	7051.7	6194.0	5639.8	5620.3	5067.3	4563.1
57.5°	8813.8	8785.6	8863.7	8889.7	8902.7	7716.4	6715.5	6153.8	5250.5	4627.0	4598.8
60°	9637.9	9607.6	9706.2	9710.6	9748.5	8380.1	7211.1	6649.4	5058.6	4976.2	4952.3
62.5°	10503.3	10465.3	10552.1	10548.8	10474.0	8987.3	7702.3	7125.4	5401.3	5336.2	5299.3
65°	11464.0	11435.8	11496.5	11399.0	11250.4	9615.2	8212.0	7643.8	5800.3	5788.4	5779.7
67.5°	12728.4	12673.1	12550.6	12342.4	12058.3	10191.0	8576.3	7985.3	6124.6	6069.2	6051.9
70°	12219.8	12154.8	12061.5	11832.7	11543.2	9649.9	7990.8	7469.2	5726.6	5728.8	5687.5
72.5°	10819.9	10707.1	10619.3	10298.3	10138.9	8427.8	6962.8	6482.4	4953.4	5045.6	5026.1
75°	8535.1	8420.2	8276.0	8150.2	8132.8	6835.9	5613.8	5267.9	3949.3	4016.5	4065.3
77.5°	5532.5	5490.2	5672.4	5553.1	5660.4	4707.3	4010.0	3712.9	2721.8	2892.0	2869.3
80°	2532.0	2483.2	2776.0	2693.6	2733.7	2311.9	1959.5	1882.5	1231.9	1240.5	1266.6
82.5°	572.6	553.0	573.6	527.0	514.0	434.8	382.8	347.0	218.0	231.0	242.9
85°	313.4	313.4	309.0	287.4	246.2	202.8	160.5	123.6	67.2	73.7	72.7
87.5°	220.1	214.7	213.6	190.9	163.7	138.8	110.6	79.2	38.0	26.0	23.9
90°	150.7	148.6	141.0	126.9	109.5	90.0	67.2	39.0	16.3	7.6	5.4
92.5°	109.5	107.4	101.9	90.0	74.8	60.7	44.5	26.0	13.0	5.4	1.1
95°	72.7	71.6	68.3	58.6	48.8	39.0	28.2	16.3	10.8	4.3	1.1
97.5°	49.9	48.8	45.5	39.0	31.4	24.9	17.4	11.9	8.7	3.3	1.1
100°	33.6	32.5	30.4	24.9	19.5	15.2	10.8	8.7	6.5	3.3	1.1
102.5°	21.7	20.6	18.4	15.2	10.8	8.7	7.6	6.5	4.3	2.2	1.1
105°	13.0	11.9	9.8	7.6	6.5	5.4	5.4	4.3	3.3	1.1	1.1
107.5°	6.5	5.4	4.3	4.3	4.3	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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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°	2548.3	2548.3	2548.3	2548.3	2548.3	2548.3	2548.3	2548.3	2548.3	2548.3
2.5°	2560.2	2542.9	2552.6	2537.4	2534.2	2517.9	2543.9	2547.2	2545.0	2549.4
5°	2563.5	2545.0	2555.9	2537.4	2537.4	2520.1	2545.0	2545.0	2538.5	2540.7
7.5°	2572.1	2553.7	2561.3	2540.7	2541.8	2521.2	2551.5	2548.3	2542.9	2550.5
10°	2597.1	2576.5	2575.4	2555.9	2560.2	2538.5	2576.5	2576.5	2571.1	2585.2
12.5°	2637.2	2606.8	2601.4	2577.6	2586.2	2567.8	2614.4	2616.6	2617.7	2640.5
15°	2679.5	2642.6	2648.0	2619.9	2616.6	2606.8	2649.1	2647.0	2645.9	2677.3
17.5°	2739.1	2565.6	2537.4	2517.9	2513.6	2489.7	2528.8	2603.6	2564.5	2542.9
20°	2644.8	2553.7	2442.0	2404.1	2396.5	2189.4	2025.6	2099.4	2199.1	2207.8
22.5°	2559.1	2526.6	2517.9	2458.3	2127.5	2058.1	2064.7	2037.5	1801.1	1698.1
25°	2665.4	2637.2	2600.3	2236.0	2157.9	2133.0	2125.4	1847.8	1661.3	1673.2
27.5°	2783.6	2752.1	2431.2	2241.4	2258.8	2224.1	2052.7	1724.2	1713.3	1733.9
30°	2931.1	2679.5	2372.6	2361.8	2378.0	2333.6	1823.9	1800.1	1796.8	1818.5
32.5°	3099.1	2584.1	2528.8	2528.8	2521.2	2040.8	1921.5	1905.2	1913.9	1936.7
35°	3036.3	2733.7	2727.2	2754.3	2572.1	2093.9	2077.7	2049.5	2056.0	2063.6
37.5°	2966.9	2979.9	2983.1	2969.0	1876.0	2245.7	2232.7	2227.3	2220.8	2223.0
40°	3224.9	3233.6	3230.4	3101.3	2024.5	2275.0	2408.4	2398.6	2397.6	2410.6
42.5°	3526.4	3550.2	3531.8	2735.9	2223.0	1912.8	2611.2	2605.8	2603.6	2630.7
45°	3865.8	3888.6	3501.4	2930.0	2434.4	1980.1	2625.3	2827.0	2843.2	2867.1
47.5°	4233.4	4229.1	3231.4	3228.2	2682.7	2166.6	2182.8	3091.6	3118.7	3127.3
50°	4656.3	3961.2	3538.3	3419.0	2963.6	2375.9	2314.1	2836.7	3435.3	3444.0
52.5°	4566.3	3918.9	3890.7	2999.4	3215.2	2606.8	2546.1	2529.8	3561.1	3770.4
55°	4256.2	4288.7	4248.6	3291.1	2357.4	2812.9	2774.9	2758.7	2649.1	2097.2
57.5°	4601.0	4610.8	4576.1	3558.9	2397.6	1753.4	2731.5	2343.3	1522.5	1514.9
60°	4958.8	4975.1	3408.2	2614.4	1536.6	586.6	139.9	147.5	420.7	369.8
62.5°	5300.4	5316.7	3607.7	2388.9	970.5	43.4	28.2	19.5	21.7	21.7
65°	5746.1	5752.6	3861.5	2528.8	1008.5	10.8	3.3	0.0	0.0	0.0
67.5°	5977.1	5843.7	3925.4	2592.7	1035.6	6.5	2.2	0.0	0.0	0.0
70°	5627.9	5484.8	3654.3	2430.1	965.1	5.4	1.1	0.0	0.0	0.0
72.5°	4958.8	4889.4	3280.2	2154.7	854.5	3.3	1.1	0.0	0.0	0.0
75°	4109.8	4017.6	2719.6	1795.7	707.0	2.2	0.0	0.0	0.0	0.0
77.5°	2923.5	2934.3	1895.5	1308.8	481.5	2.2	0.0	0.0	0.0	0.0
80°	1279.6	1308.8	830.6	600.7	170.2	1.1	0.0	0.0	0.0	0.0
82.5°	244.0	224.5	108.4	85.7	21.7	0.0	0.0	0.0	0.0	0.0
85°	80.2	87.8	40.1	32.5	9.8	0.0	0.0	0.0	0.0	0.0
87.5°	28.2	35.8	11.9	9.8	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: P579545
 CATALOG NUMBER: CST-CA6-230-750-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)