

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: P579547

Luminaire Tested: **CST-CA6-230-750-U-T5N-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579547
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-5)
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-T5N-HSS-HM-EX120
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: 27561 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U2 - G3

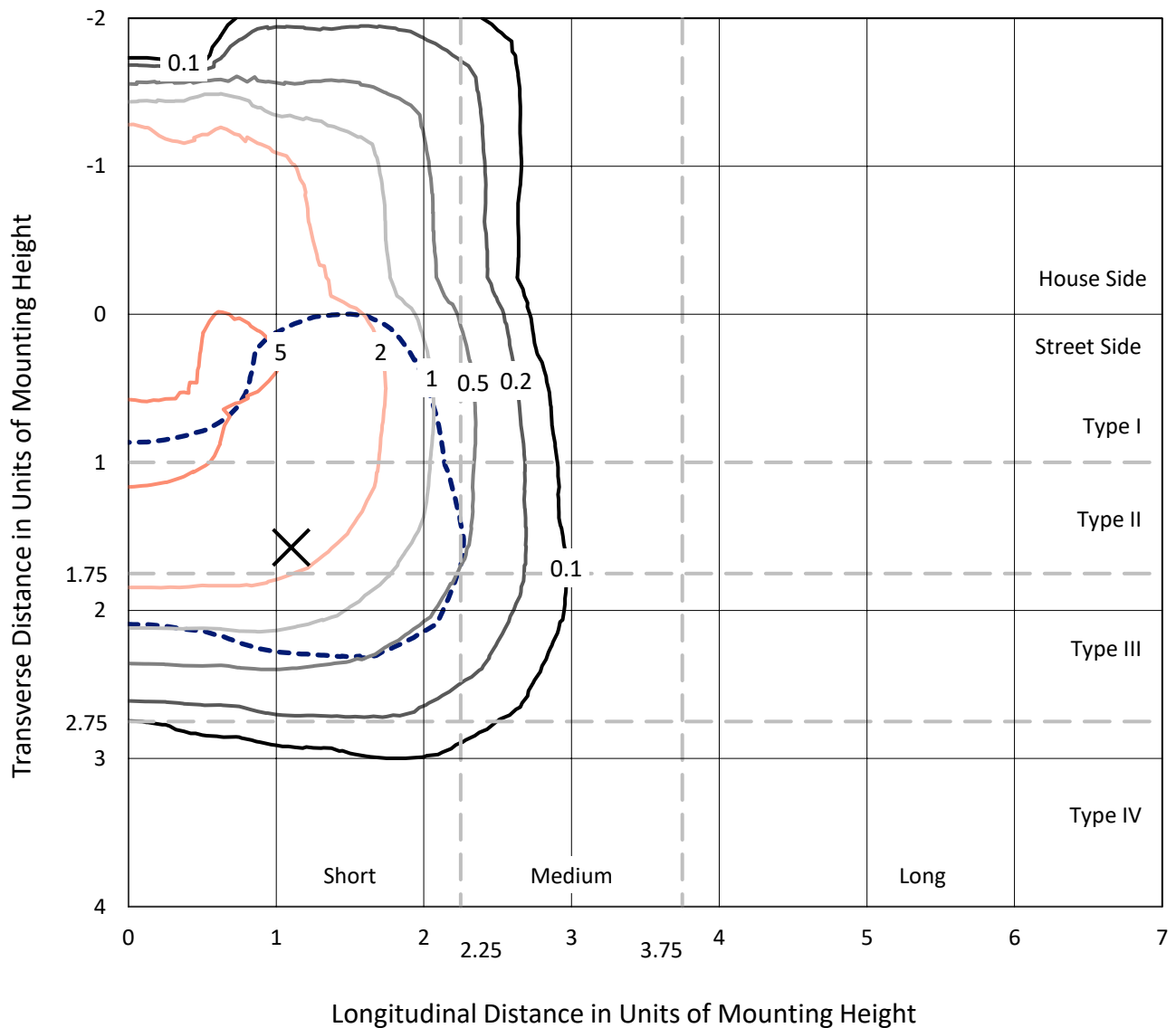
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

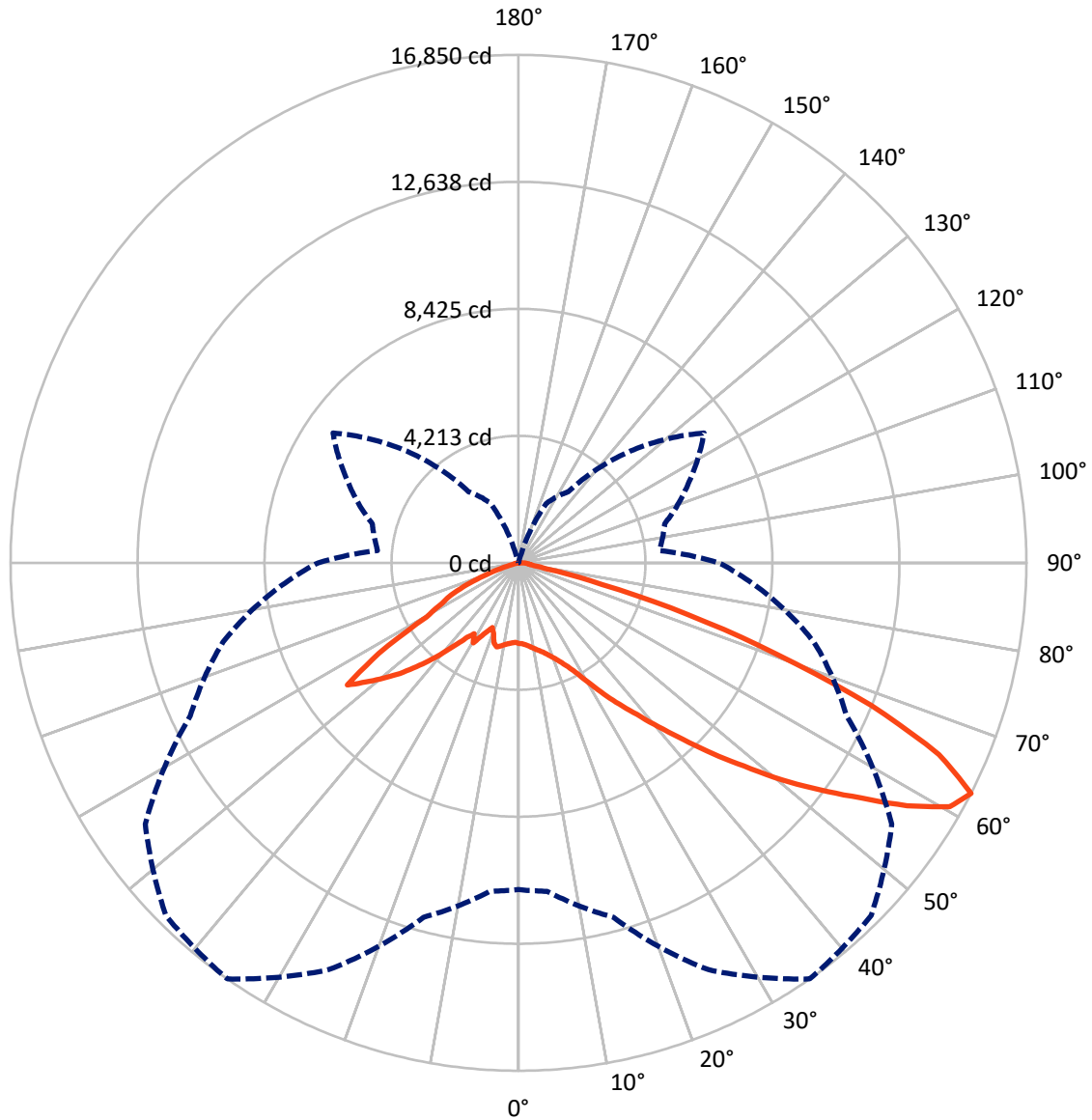
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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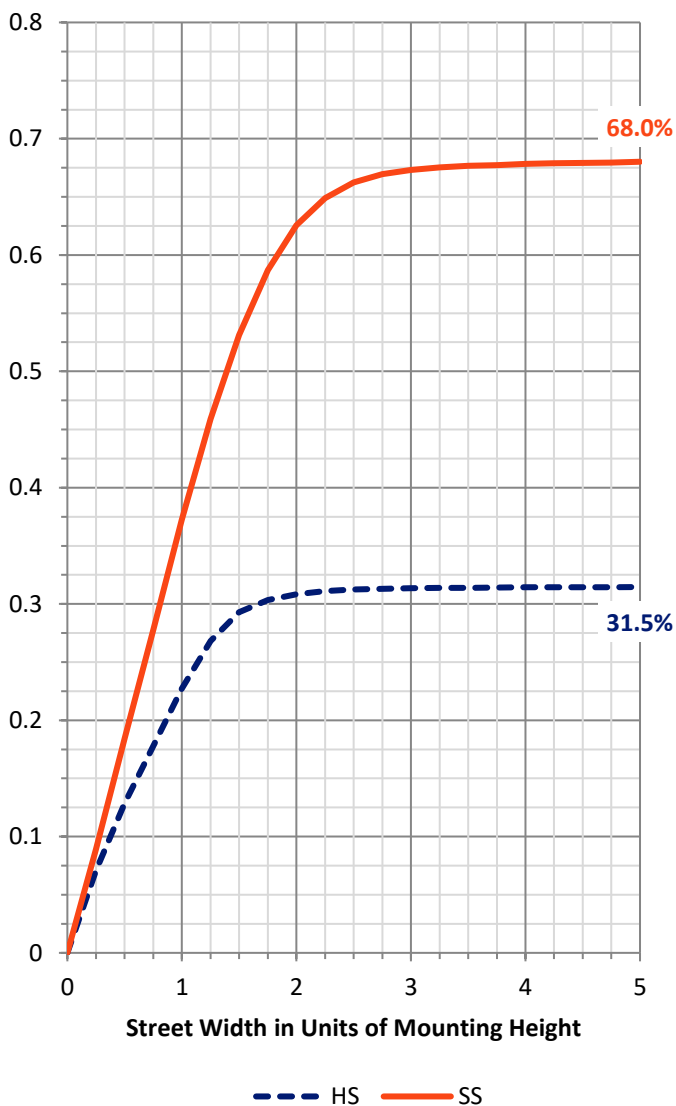
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8719.1	0.0	8719.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	18826.1	15.7	18841.9
	% Fixture	68.3	0.1	68.4
Total	Lumens	27545.3	15.7	27561.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.8	1.0
10°-20°	848.2	3.1
20°-30°	1575.0	5.7
30°-40°	3105.2	11.3
40°-50°	5574.1	20.2
50°-60°	8102.6	29.4
60°-70°	6659.1	24.2
70°-80°	1265.8	4.6
80°-90°	151.5	0.5
90°-100°	14.3	0.1
100°-110°	1.4	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°	27545.3	99.9
0°-180°	27561.0	100.0

Coefficient of Utilization



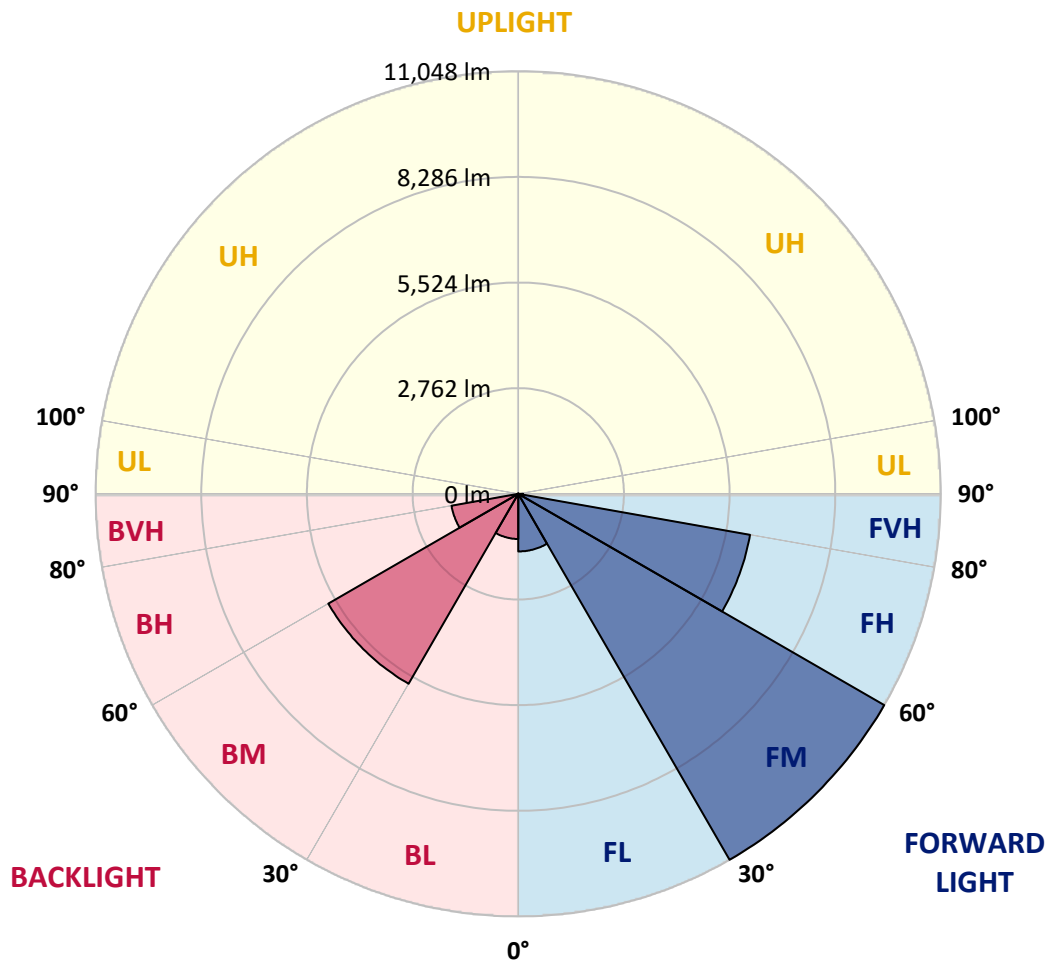
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1506.4	5.5			
FM	(30°-60°)	11047.7	40.1			
FH	(60°-80°)	6152.2	22.3			G3/7500
FVH	(80°-90°)	119.8	0.4			G2/225
BL	(0°-30°)	1180.6	4.3	B3/2500		
BM	(30°-60°)	5734.2	20.8	B4/8500		
BH	(60°-80°)	1772.6	6.4	B3/2500		G3/2500
BVH	(80°-90°)	31.7	0.1			G1/100
UL	(90°-100°)	14.3	0.1		U2/50	
UH	(100°-180°)	1.4	0.0		U1/10	

BUG Rating: B4-U2-G3

Type III Short





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CATALOG NUMBER: CST-CA6-230-750-U-T5N-HSS-HM-EX120

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2675.2	2675.2	2675.2	2675.2	2675.2	2675.2	2675.2	2675.2	2675.2	2675.2	2675.2
2.5°	2743.6	2721.2	2723.4	2740.2	2689.8	2706.6	2683.1	2703.2	2694.3	2703.2	2708.8
5°	2798.5	2770.4	2769.3	2786.1	2745.8	2755.9	2729.0	2742.4	2730.1	2741.3	2741.3
7.5°	2865.7	2842.1	2836.5	2850.0	2814.1	2818.6	2791.7	2797.3	2782.8	2797.3	2786.1
10°	2949.7	2928.4	2919.4	2926.2	2893.7	2895.9	2866.8	2869.0	2847.7	2860.1	2851.1
12.5°	3038.2	3009.1	3004.6	3015.8	2982.2	2977.7	2953.0	2955.3	2931.8	2943.0	2936.2
15°	3130.1	3099.8	3100.9	3112.1	3078.5	3080.8	3055.0	3059.5	3035.9	3047.2	3038.2
17.5°	3252.2	3221.9	3219.7	3239.8	3211.8	3220.8	3193.9	3199.5	3182.7	3184.9	3174.9
20°	3426.9	3387.7	3379.9	3409.0	3372.0	3383.2	3368.7	3387.7	3381.0	3375.4	3367.6
22.5°	3635.3	3605.1	3589.4	3611.8	3568.1	3589.4	3597.2	3636.4	3646.5	3639.8	3516.5
25°	3914.2	3898.6	3882.9	3872.8	3820.1	3853.8	3894.1	3959.1	4001.6	4018.4	3847.0
27.5°	4290.7	4298.5	4230.2	4219.0	4159.6	4212.2	4285.1	4390.4	4476.6	4508.0	4277.2
30°	4774.6	4784.7	4691.7	4664.8	4629.0	4673.8	4809.3	4924.7	5052.4	5105.1	4797.0
32.5°	5417.7	5408.7	5272.0	5220.5	5188.0	5205.9	5348.2	5506.2	5649.6	5768.3	5389.7
35°	6203.0	6175.0	6029.3	5887.1	5758.2	5813.1	5917.3	6108.9	6326.2	6501.0	5974.4
37.5°	7114.9	7088.0	6866.2	6634.3	6380.0	6403.5	6496.5	6809.0	7089.1	7135.0	5874.7
40°	8057.0	8045.8	7836.3	7541.7	7146.2	7035.3	7158.6	7539.5	7835.2	7034.2	6106.6
42.5°	8998.1	8944.3	8826.7	8532.0	8005.5	7761.3	7927.1	8308.0	8626.1	7374.8	6644.4
45°	9946.9	9892.0	9792.3	9576.1	9028.3	8673.2	8721.4	9143.7	9431.6	8013.3	7204.5
47.5°	10789.4	10749.1	10677.4	10556.4	10067.9	9746.4	9653.4	9949.2	10145.2	8532.0	7634.7
50°	11515.3	11480.6	11508.6	11468.3	11324.9	10987.7	10680.7	10661.7	10755.8	8993.6	8030.1
52.5°	12153.9	12106.8	12226.7	12369.0	12501.2	12426.1	11683.4	11337.2	11252.1	9339.7	8295.6
55°	12681.5	12664.7	12870.9	13255.1	13758.1	13955.3	12755.5	11961.2	11695.7	9633.3	8320.3
57.5°	12997.5	13037.8	13473.6	14217.4	15201.0	15294.0	14010.2	12624.4	12086.7	9811.4	8437.9
60°	12457.5	12594.2	13378.3	14938.9	16428.9	16469.2	14912.0	12756.6	11574.7	9170.6	7809.4
62.5°	10839.8	10938.4	12171.8	14893.0	16850.1	16543.1	15113.7	12010.5	10144.1	7779.2	6642.1
65°	7659.3	7773.6	9260.2	13429.9	15329.9	15341.1	13844.4	10386.1	8108.6	6022.6	5128.6
67.5°	4620.0	4804.9	6213.1	9749.8	12622.2	12851.8	11550.1	7863.2	5803.0	3932.2	3319.4
70°	1515.7	1684.9	2836.5	5770.5	9098.9	10082.5	8674.3	5109.6	3030.3	1662.5	1338.7
72.5°	600.5	677.8	999.3	2552.0	5863.5	6731.7	5344.8	2469.1	1017.2	441.4	384.3
75°	401.1	408.9	461.6	869.3	2869.0	3681.2	2576.6	718.1	377.5	275.6	242.0
77.5°	349.5	350.6	374.2	458.2	934.3	1411.5	741.6	385.4	312.6	226.3	200.5
80°	320.4	324.9	339.4	391.0	427.9	479.5	366.3	321.5	271.1	208.4	189.3
82.5°	307.0	310.3	319.3	354.0	346.2	359.6	295.8	255.4	228.5	191.6	181.5
85°	280.1	285.7	291.3	312.6	284.6	246.5	228.5	171.4	163.6	144.5	133.3
87.5°	211.7	210.6	205.0	208.4	190.4	155.7	128.8	96.3	78.4	65.0	53.8
90°	88.5	89.6	86.3	81.8	71.7	59.4	44.8	26.9	13.4	4.5	2.2
92.5°	67.2	68.3	66.1	59.4	51.5	41.5	30.2	15.7	9.0	3.4	1.1
95°	41.5	42.6	40.3	35.8	31.4	23.5	15.7	10.1	5.6	2.2	0.0
97.5°	24.6	25.8	23.5	21.3	16.8	11.2	9.0	6.7	4.5	2.2	0.0
100°	14.6	14.6	13.4	11.2	7.8	6.7	5.6	4.5	3.4	1.1	0.0
102.5°	6.7	6.7	6.7	4.5	3.4	3.4	3.4	3.4	3.4	1.1	0.0
105°	2.2	2.2	1.1	1.1	1.1	2.2	2.2	2.2	2.2	1.1	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.2	2.2	1.1	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	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°	2675.2	2675.2	2675.2	2675.2	2675.2	2675.2	2675.2	2675.2	2675.2	2675.2
2.5°	2703.2	2681.9	2685.3	2666.3	2661.8	2641.6	2677.5	2680.8	2670.7	2680.8
5°	2736.8	2711.1	2717.8	2696.5	2690.9	2662.9	2692.0	2689.8	2681.9	2692.0
7.5°	2786.1	2757.0	2760.4	2735.7	2730.1	2698.7	2725.6	2717.8	2708.8	2721.2
10°	2848.9	2820.9	2822.0	2788.4	2785.0	2749.2	2783.9	2769.3	2755.9	2773.8
12.5°	2936.2	2897.0	2893.7	2856.7	2855.6	2818.6	2854.5	2842.1	2824.2	2852.2
15°	3037.1	2984.4	2971.0	2923.9	2922.8	2883.6	2919.4	2900.4	2891.4	2925.0
17.5°	3168.1	3102.0	3000.1	2839.9	2767.1	2779.4	2906.0	2951.9	2832.1	2850.0
20°	3247.7	2927.3	2778.3	2712.2	2677.5	2478.1	2208.1	2230.5	2496.0	2622.6
22.5°	3113.2	3018.0	2963.1	2870.1	2386.2	2317.9	2333.5	2329.1	1986.3	1884.3
25°	3393.3	3303.7	3204.0	2630.4	2530.7	2501.6	2509.4	2187.9	2000.8	2008.7
27.5°	3796.6	3681.2	3049.4	2800.7	2780.5	2738.0	2583.4	2196.9	2220.4	2236.1
30°	4306.3	3896.3	3247.7	3139.0	3098.7	3052.8	2397.4	2454.5	2498.2	2546.4
32.5°	4799.3	3789.9	3627.5	3514.3	3451.6	2771.6	2704.3	2809.7	2853.3	2894.8
35°	4754.5	4245.8	4035.2	3891.8	3774.2	2991.1	3050.5	3210.7	3326.1	3325.0
37.5°	4877.7	4742.1	4499.0	4317.5	3275.7	3350.7	3475.1	3657.7	3797.7	3796.6
40°	5391.9	5245.1	5016.6	4626.7	3629.7	3804.5	3974.7	4146.1	4247.0	4254.8
42.5°	5902.7	5789.6	5583.5	4086.8	4063.2	4305.2	4483.3	4592.0	4653.6	4674.9
45°	6411.3	6304.9	5486.0	4520.3	4592.0	4831.8	4940.4	4961.7	5027.8	5025.6
47.5°	6815.8	6725.0	5046.8	5035.6	5213.8	5379.6	5344.8	5318.0	5334.8	5343.7
50°	7188.8	5854.6	5441.2	5604.7	5875.9	5896.0	5751.5	4556.2	5640.6	5621.5
52.5°	6678.0	5713.4	5808.6	6191.8	6653.3	6419.2	6136.9	3993.8	5289.9	5793.0
55°	5843.4	5939.7	6154.8	6797.8	7253.8	6976.0	6504.3	4112.5	3510.9	2857.8
57.5°	5959.9	6112.2	6521.1	7409.5	7807.2	5525.2	6070.8	2899.3	1962.7	1961.6
60°	5549.9	5780.6	6513.3	7684.0	6319.5	3540.1	2432.1	66.1	380.9	377.5
62.5°	4691.7	5020.0	6214.2	7510.3	5235.1	2876.9	2166.6	5.6	2.2	2.2
65°	3628.6	4015.1	5181.3	6503.2	4637.9	2478.1	1608.7	0.0	0.0	0.0
67.5°	2379.5	2738.0	3890.7	5402.0	3850.4	1873.1	1081.1	0.0	0.0	0.0
70°	991.4	1434.0	2417.6	3904.2	2832.1	1226.7	513.1	0.0	0.0	0.0
72.5°	286.8	436.9	1088.9	2331.3	1757.7	641.9	190.4	0.0	0.0	0.0
75°	189.3	199.4	329.4	937.7	854.8	235.3	77.3	0.0	0.0	0.0
77.5°	159.1	163.6	209.5	262.1	274.5	93.0	62.7	0.0	0.0	0.0
80°	146.8	147.9	188.2	194.9	146.8	77.3	61.6	0.0	0.0	0.0
82.5°	136.7	133.3	160.2	154.6	122.1	67.2	57.1	0.0	0.0	0.0
85°	94.1	96.3	108.7	137.8	73.9	33.6	40.3	0.0	0.0	0.0
87.5°	29.1	33.6	42.6	43.7	13.4	4.5	0.0	0.0	0.0	0.0
90°	1.1	0.0	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: P579547
 CATALOG NUMBER: CST-CA6-230-750-U-T5N-HSS-HM-EX120

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)