

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: P579548

Luminaire Tested: **CST-CA6-230-750-U-T5N-HSS-HM-EX180**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-6)
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-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: 23766 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U2 - G3

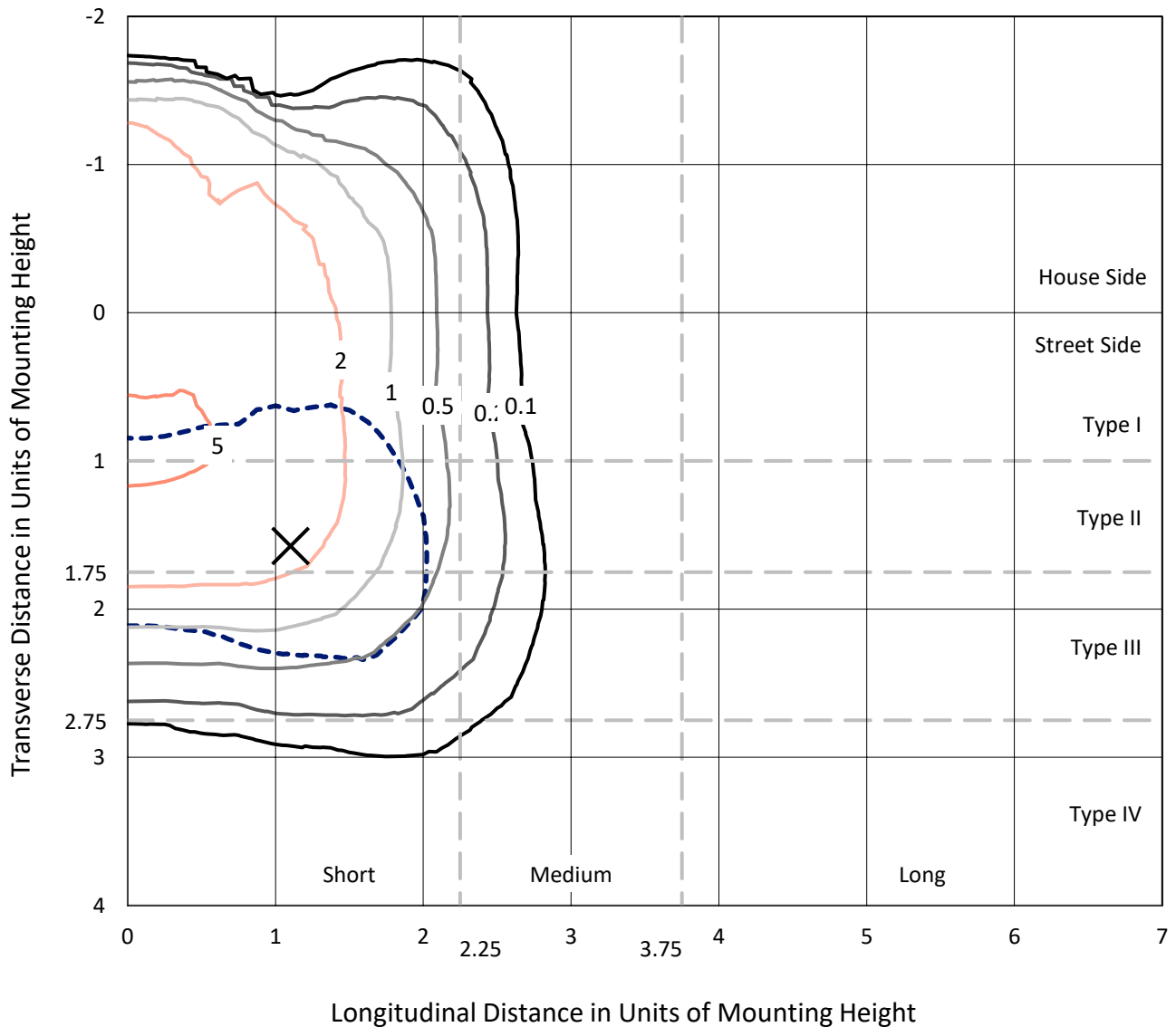
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

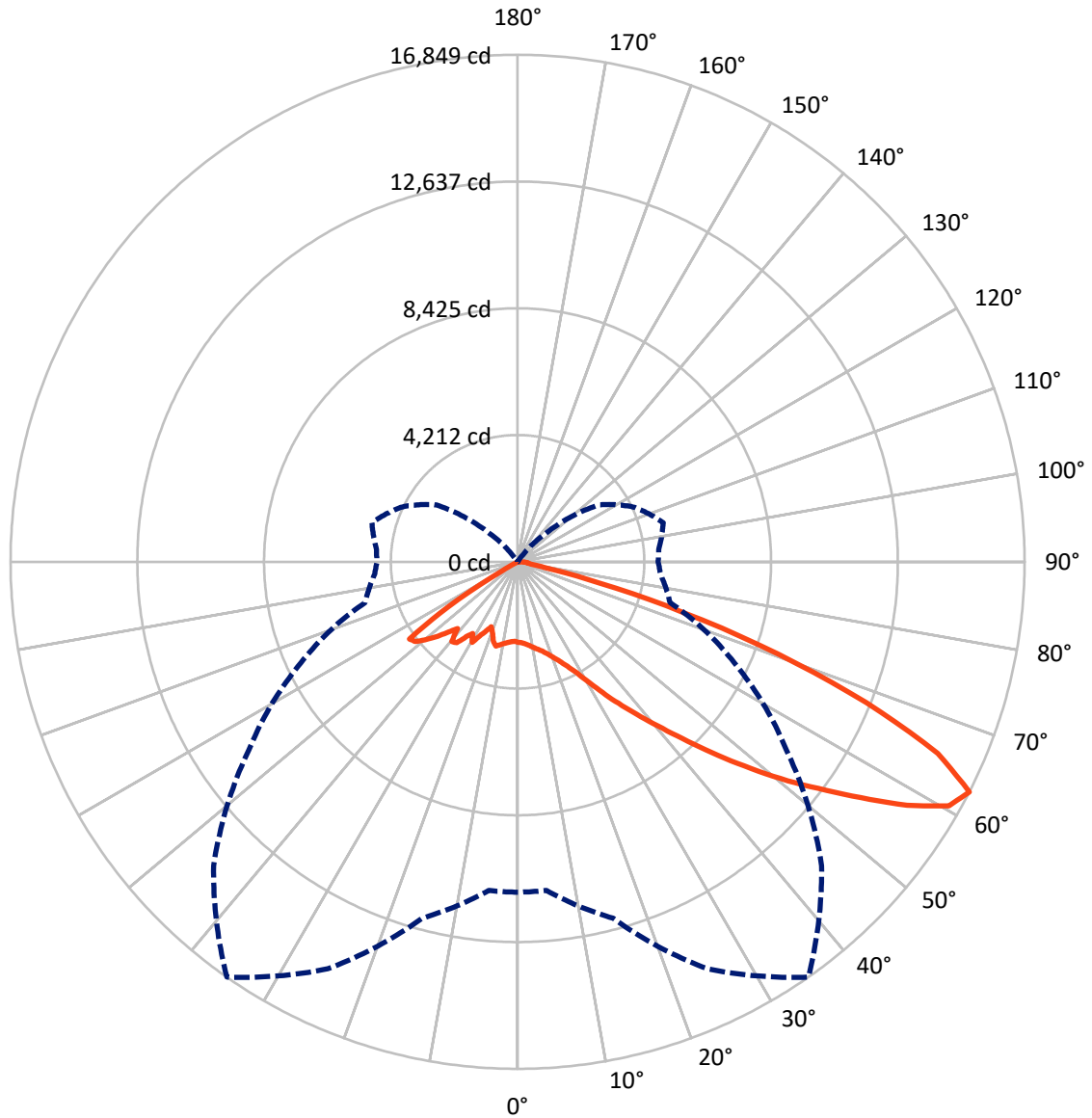
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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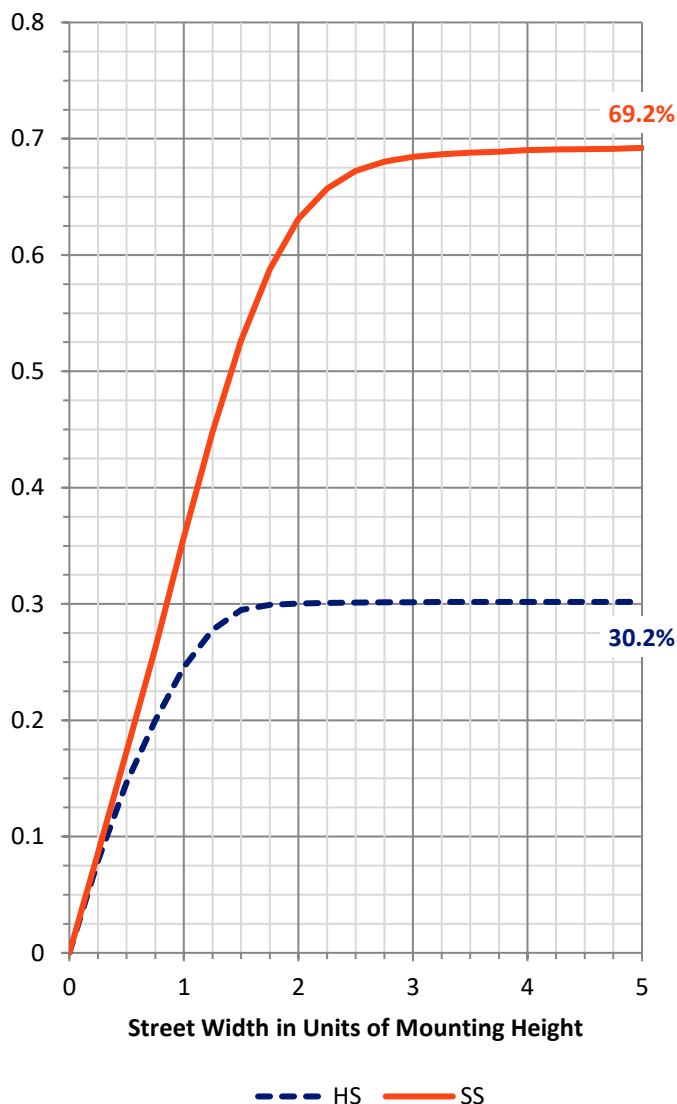
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7213.1	0.0	7213.1
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	16532.3	20.6	16552.9
	% Fixture	69.6	0.1	69.6
Total	Lumens	23745.4	20.6	23766.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.1	1.1
10°-20°	847.5	3.6
20°-30°	1549.0	6.5
30°-40°	2951.9	12.4
40°-50°	5066.7	21.3
50°-60°	6797.1	28.6
60°-70°	5167.1	21.7
70°-80°	978.4	4.1
80°-90°	123.5	0.5
90°-100°	18.2	0.1
100°-110°	2.4	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°	23745.4	99.9
0°-180°	23766.0	100.0

Coefficient of Utilization



REPORT NUMBER: P579548

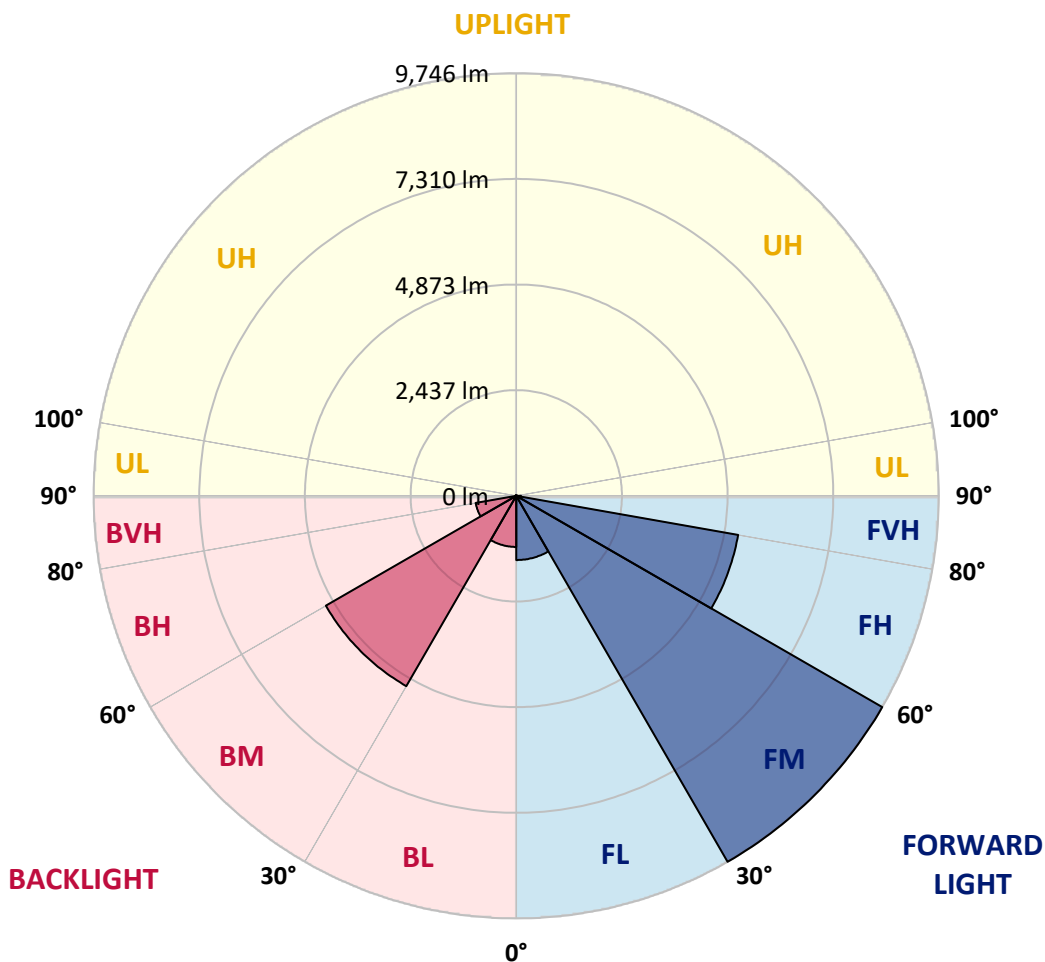
CATALOG NUMBER: CST-CA6-230-750-U-T5N-HSS-HM-EX180

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1481.5	6.2			
FM (30°-60°)	9746.0	41.0			
FH (60°-80°)	5195.7	21.9			G3/7500
FVH (80°-90°)	109.1	0.5			G2/225
BL (0°-30°)	1179.1	5.0	B3/2500		
BM (30°-60°)	5069.7	21.3	B4/8500		
BH (60°-80°)	949.9	4.0	B2/1000		G2/1000
BVH (80°-90°)	14.5	0.1			G1/100
UL (90°-100°)	18.2	0.1		U2/50	
UH (100°-180°)	2.5	0.0		U1/10	

BUG Rating: B4-U2-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2676.3	2676.3	2676.3	2676.3	2676.3	2676.3	2676.3	2676.3	2676.3	2676.3	2676.3
2.5°	2742.4	2722.3	2723.4	2741.3	2689.8	2708.8	2686.4	2708.8	2696.5	2705.5	2710.0
5°	2790.6	2770.4	2768.2	2787.3	2743.6	2757.0	2734.6	2750.3	2733.5	2744.7	2744.7
7.5°	2863.4	2843.3	2836.5	2851.1	2810.8	2820.9	2797.3	2806.3	2787.3	2801.8	2794.0
10°	2949.7	2927.3	2919.4	2927.3	2892.6	2898.2	2870.2	2880.2	2852.2	2869.0	2857.8
12.5°	3041.6	3012.4	3012.4	3019.1	2982.2	2983.3	2957.5	2963.1	2935.1	2953.1	2939.6
15°	3141.3	3108.8	3113.3	3120.0	3080.8	3087.5	3060.6	3069.6	3040.4	3058.4	3044.9
17.5°	3273.5	3238.7	3234.2	3254.4	3217.4	3229.8	3199.5	3210.7	3184.9	3190.6	3183.8
20°	3456.1	3412.4	3402.3	3429.2	3387.7	3396.7	3374.3	3396.7	3369.8	3329.5	3216.3
22.5°	3674.5	3636.4	3619.6	3637.5	3588.2	3603.9	3602.8	3638.7	3564.7	3310.4	3197.3
25°	3962.4	3936.7	3904.2	3906.4	3847.0	3870.6	3913.1	3941.1	3626.3	3403.4	3405.6
27.5°	4346.7	4320.9	4276.1	4259.3	4173.0	4230.2	4296.3	4022.9	3775.3	3832.5	3801.1
30°	4837.4	4832.9	4742.1	4713.0	4618.9	4690.6	4633.5	4165.2	4250.3	4329.9	4281.7
32.5°	5490.5	5459.1	5328.0	5275.4	5176.8	5218.3	4714.1	4646.9	4773.5	4881.0	4830.6
35°	6280.3	6185.1	6051.7	5947.6	5776.2	5545.4	5021.1	5152.2	5341.5	5489.4	5245.1
37.5°	7197.8	7094.7	6886.3	6699.3	6429.3	5710.1	5483.8	5745.9	5983.4	5823.2	5259.7
40°	8142.2	8050.3	7854.3	7613.4	7157.5	6220.9	6045.0	6358.7	6628.7	5711.2	5431.1
42.5°	9079.8	9001.4	8843.5	8606.0	8018.9	6829.2	6660.1	6997.3	6743.0	5929.6	5920.7
45°	10025.4	9986.2	9806.9	9604.1	9039.5	7607.8	7349.0	7612.3	6488.6	6452.8	6431.5
47.5°	10791.6	10798.4	10735.6	10630.3	10128.4	8462.6	8125.4	7344.5	6797.8	6837.1	6847.1
50°	11581.4	11531.0	11527.7	11534.4	11324.9	9563.8	8654.1	7223.5	7202.3	7198.9	7189.9
52.5°	12214.4	12150.5	12282.7	12388.0	12512.4	10792.8	8574.6	7633.6	7511.5	7468.9	7207.9
55°	12729.7	12705.1	12920.2	13276.4	13829.8	12094.5	9278.1	8033.5	7789.3	6794.5	6129.0
57.5°	13042.3	13078.1	13521.8	14221.9	15258.2	13173.3	10097.1	8439.1	6669.0	5984.5	5942.0
60°	12444.0	12633.4	13388.4	14925.5	16465.8	14188.3	10706.5	8520.8	6001.3	5635.0	5549.9
62.5°	10979.8	10961.9	12259.2	14925.5	16849.0	14289.1	10899.2	7941.6	5242.9	4765.7	4670.4
65°	7771.4	7818.4	9204.2	13450.1	15348.9	13291.0	10053.4	6751.9	4182.0	3744.0	3615.1
67.5°	4809.4	4806.0	6162.6	9905.5	12494.5	11127.7	8463.7	5175.7	2902.6	2489.3	2349.2
70°	1661.4	1708.4	2771.6	5796.3	9197.5	8718.0	6334.0	3267.8	1530.3	1091.2	920.9
72.5°	661.0	676.6	994.8	2584.5	5745.9	5824.3	3849.3	1587.4	458.2	291.3	273.3
75°	432.4	434.7	477.2	933.2	2788.4	3133.4	1788.0	456.0	212.9	194.9	190.4
77.5°	373.1	374.2	396.6	472.8	908.5	1218.9	508.6	270.0	178.1	160.2	155.7
80°	346.2	347.3	358.5	406.7	438.0	415.6	271.1	217.3	150.1	142.3	141.2
82.5°	327.1	331.6	337.2	366.3	354.0	312.6	225.2	175.9	115.4	123.2	126.6
85°	301.4	305.8	309.2	326.0	295.8	228.5	174.8	132.2	73.9	80.7	79.5
87.5°	226.3	228.5	224.1	221.8	206.1	160.2	115.4	84.0	29.1	26.9	24.6
90°	108.7	107.5	103.1	95.2	82.9	65.0	48.2	26.9	12.3	5.6	2.2
92.5°	86.3	85.1	82.9	75.1	65.0	48.2	34.7	19.0	11.2	4.5	1.1
95°	58.3	56.0	53.8	48.2	40.3	29.1	20.2	13.4	9.0	3.4	1.1
97.5°	38.1	37.0	33.6	29.1	22.4	15.7	12.3	10.1	7.8	3.4	1.1
100°	23.5	23.5	21.3	16.8	11.2	9.0	7.8	7.8	5.6	2.2	0.0
102.5°	14.6	13.4	12.3	7.8	5.6	5.6	5.6	5.6	4.5	2.2	0.0
105°	7.8	7.8	5.6	4.5	3.4	2.2	3.4	4.5	3.4	1.1	0.0
107.5°	2.2	2.2	2.2	1.1	1.1	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	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°	2676.3	2676.3	2676.3	2676.3	2676.3	2676.3	2676.3	2676.3	2676.3	2676.3
2.5°	2704.4	2683.1	2688.7	2667.4	2664.0	2641.6	2679.7	2681.9	2671.9	2683.1
5°	2739.1	2713.3	2723.4	2697.6	2693.1	2664.0	2694.3	2690.9	2683.1	2692.0
7.5°	2788.4	2762.6	2768.2	2738.0	2732.4	2699.9	2729.0	2717.8	2707.7	2720.0
10°	2856.7	2827.6	2832.1	2796.2	2791.7	2753.6	2787.3	2770.4	2755.9	2772.7
12.5°	2940.7	2902.6	2898.2	2860.1	2856.7	2820.9	2855.6	2838.8	2824.2	2851.1
15°	3037.1	2986.7	2979.9	2931.8	2926.2	2889.2	2922.8	2898.2	2887.0	2921.7
17.5°	3165.9	2987.8	2888.1	2817.5	2777.2	2757.0	2817.5	2899.3	2874.6	2875.8
20°	3113.3	2921.7	2788.4	2727.9	2684.2	2489.3	2220.4	2297.7	2454.5	2531.8
22.5°	3097.6	3030.4	2975.5	2873.5	2440.0	2330.2	2345.9	2327.9	2032.2	1919.0
25°	3397.8	3320.5	3201.8	2667.4	2541.9	2517.3	2526.2	2217.0	1994.1	2026.6
27.5°	3782.1	3702.5	3116.6	2817.5	2792.9	2760.4	2583.4	2196.9	2227.1	2258.5
30°	4266.0	3848.2	3249.9	3158.1	3112.1	3078.5	2422.0	2453.4	2503.8	2543.0
32.5°	4737.7	3835.8	3631.9	3517.7	3460.5	2808.5	2736.8	2809.7	2861.2	2891.4
35°	4743.3	4275.0	4059.9	3913.1	3550.2	3019.1	3085.2	3207.4	3333.9	3357.5
37.5°	4872.1	4772.4	4525.9	4341.1	2640.5	3369.8	3515.4	3655.5	3782.1	3789.9
40°	5385.2	5277.6	5046.9	4640.2	2916.1	3437.0	3989.3	4147.3	4253.7	4248.1
42.5°	5897.1	5823.2	5583.5	4123.7	3285.8	2977.7	4486.7	4590.9	4658.1	4705.2
45°	6412.5	6338.5	5528.6	4528.2	3726.0	3261.1	4365.7	4956.1	5030.0	5053.6
47.5°	6814.6	6632.0	5065.9	5064.8	4276.1	3624.1	3605.1	5285.5	5350.4	5333.6
50°	7186.6	5920.7	5475.9	5240.7	4845.2	3965.8	3833.6	4447.5	5640.6	5616.0
52.5°	6539.1	5745.9	5827.7	4766.8	5302.3	4305.2	4091.3	3988.2	5125.3	5785.1
55°	5847.8	5959.9	6187.3	5237.3	3847.0	4415.0	4309.7	4104.7	3458.3	2910.5
57.5°	5967.7	6134.6	6145.8	5673.1	3981.5	2758.1	3532.2	3092.0	1953.8	1958.2
60°	5567.8	5785.1	4492.3	3782.1	2140.9	574.7	56.0	49.3	340.6	414.5
62.5°	4707.4	5009.9	4288.4	3294.7	1373.5	21.3	5.6	1.1	0.0	0.0
65°	3645.4	4009.5	3624.1	2843.3	1218.9	6.7	0.0	0.0	0.0	0.0
67.5°	2404.1	2732.4	2753.6	2378.3	1016.1	3.4	0.0	0.0	0.0	0.0
70°	1007.1	1418.3	1714.0	1767.8	798.8	1.1	0.0	0.0	0.0	0.0
72.5°	291.3	450.4	824.5	1062.0	507.5	0.0	0.0	0.0	0.0	0.0
75°	193.8	207.3	238.6	478.4	253.2	0.0	0.0	0.0	0.0	0.0
77.5°	160.2	163.6	136.7	131.1	72.8	0.0	0.0	0.0	0.0	0.0
80°	145.6	143.4	109.8	77.3	26.9	0.0	0.0	0.0	0.0	0.0
82.5°	134.4	127.7	79.5	40.3	17.9	0.0	0.0	0.0	0.0	0.0
85°	90.7	89.6	35.8	24.6	3.4	0.0	0.0	0.0	0.0	0.0
87.5°	24.6	31.4	7.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	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: P579548
 CATALOG NUMBER: CST-CA6-230-750-U-T5N-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)