

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: P579525

Luminaire Tested: **CST-CA10-210-750-U-T5N-HSS-HM-EX90**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-4)
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-T5N-HSS-HM-EX90
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: 29304 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U2 - G4

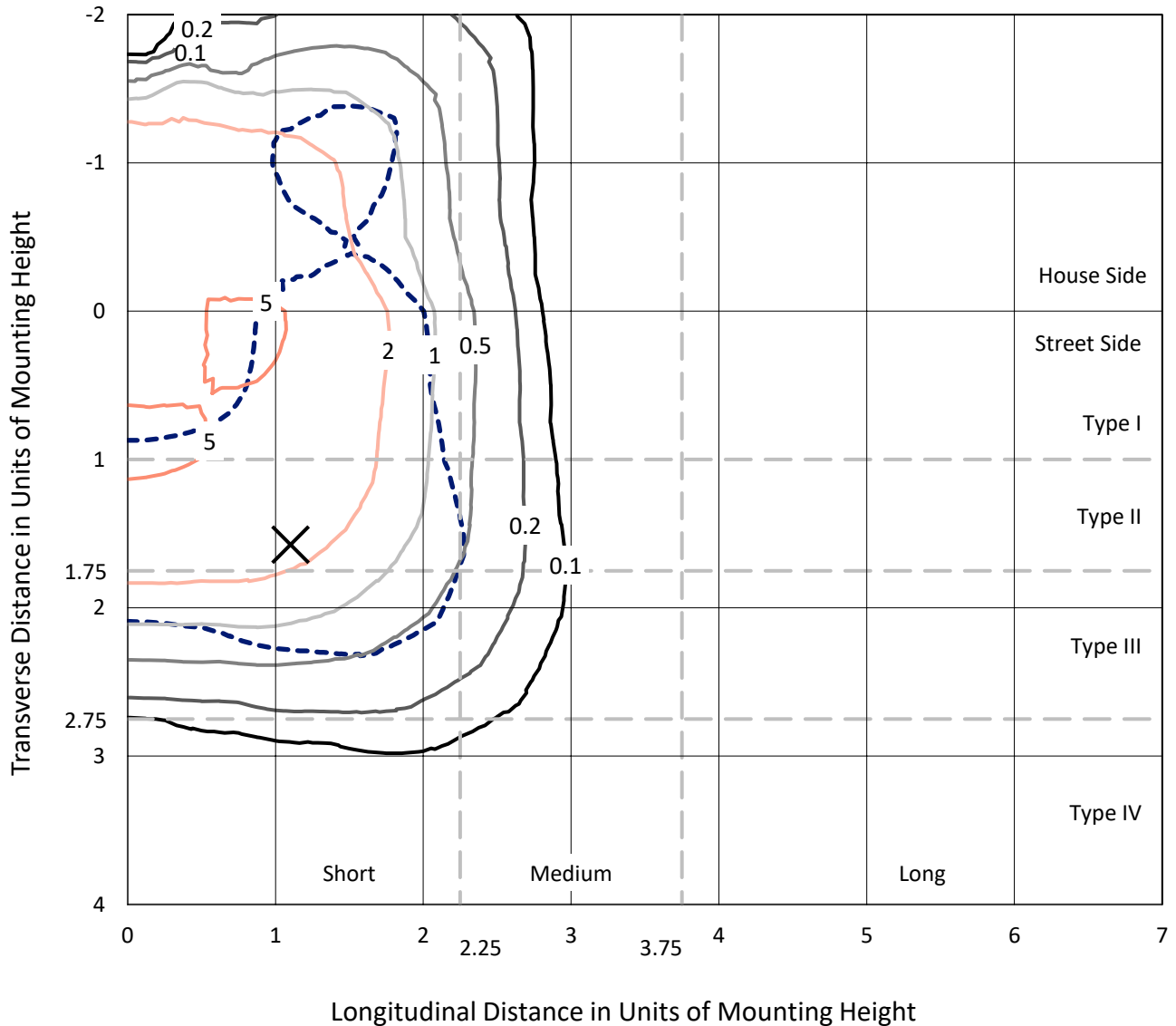
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

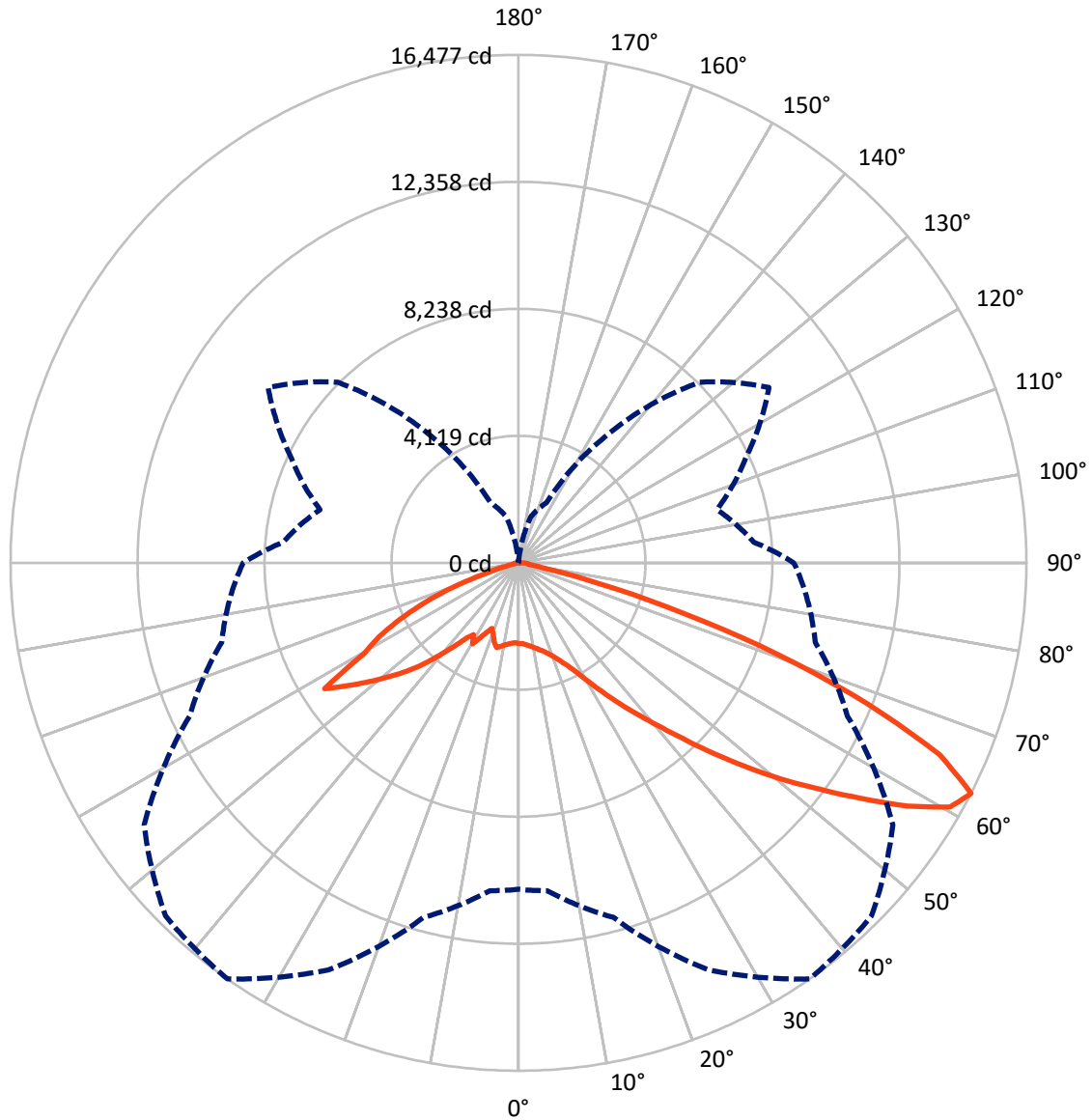
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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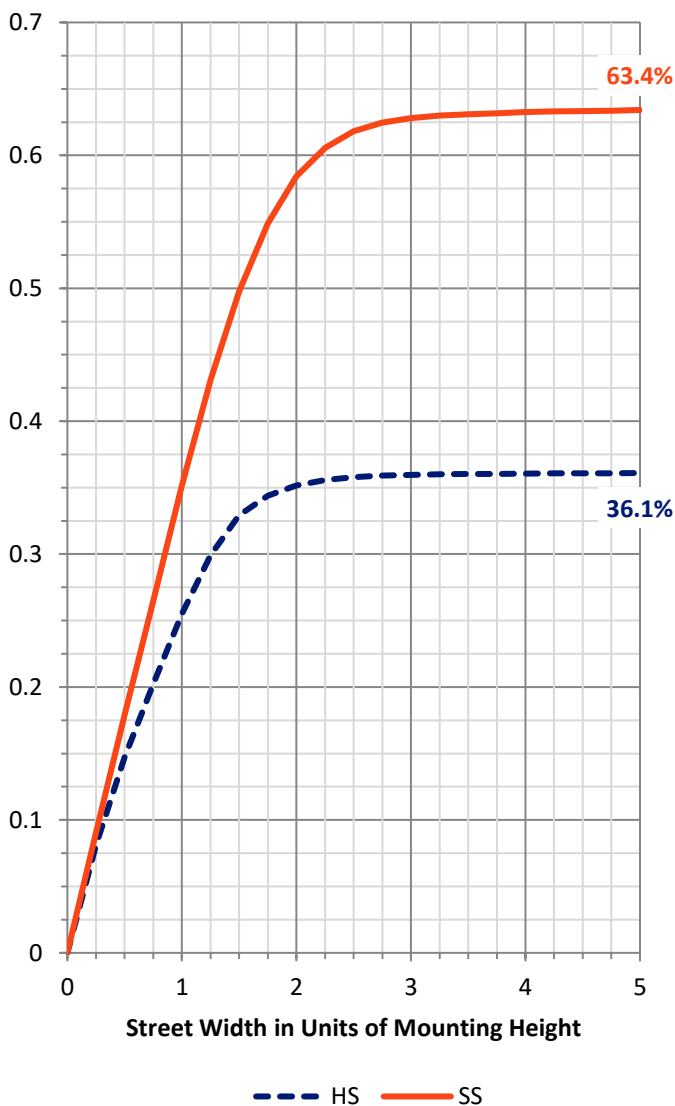
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10636.7	0.0	10636.7
	% Fixture	36.3	0.0	36.3
Street Side	Lumens	18653.4	13.9	18667.3
	% Fixture	63.7	0.0	63.7
Total	Lumens	29290.1	13.9	29304.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.8	0.9
10°-20°	833.1	2.8
20°-30°	1602.8	5.5
30°-40°	3197.5	10.9
40°-50°	5838.4	19.9
50°-60°	8724.6	29.8
60°-70°	7310.4	24.9
70°-80°	1368.1	4.7
80°-90°	157.5	0.5
90°-100°	12.5	0.0
100°-110°	1.3	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°	29290.1	100.0
0°-180°	29304.0	100.0

Coefficient of Utilization

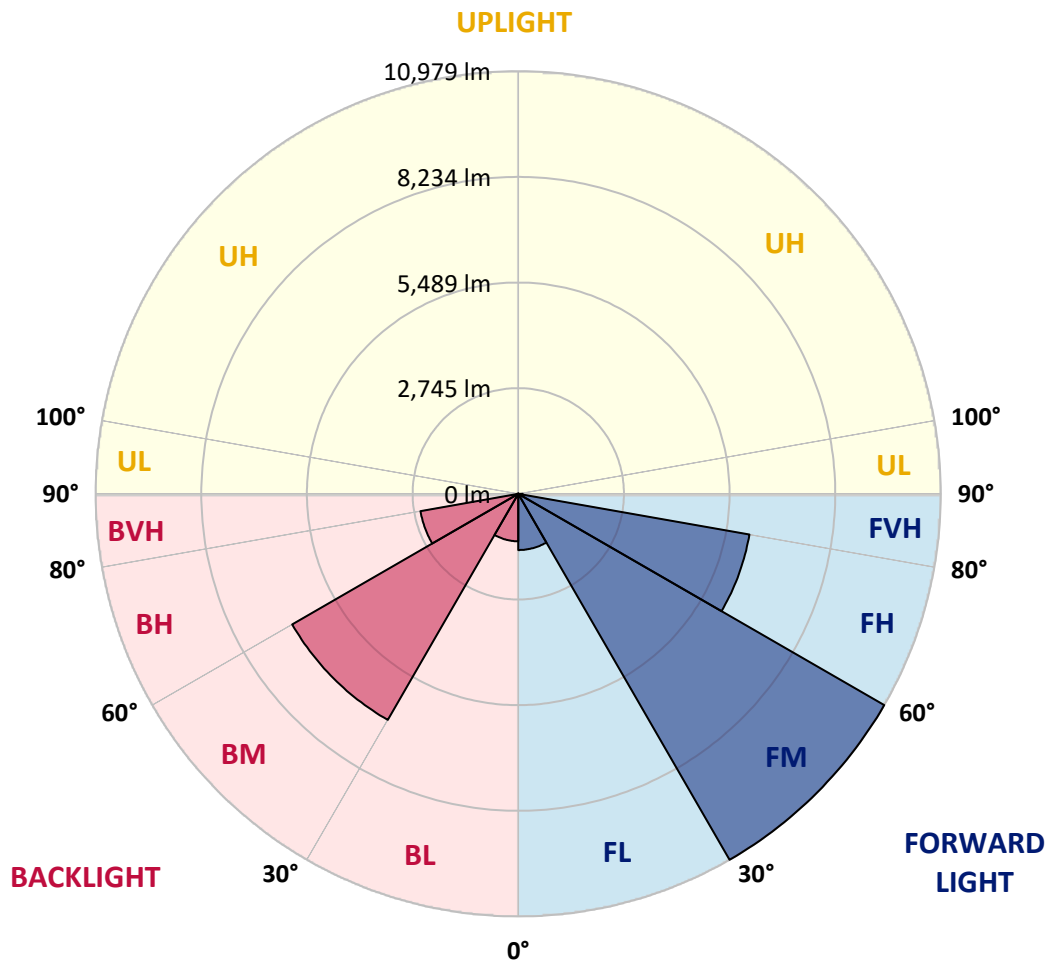


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1461.2	5.0			
FM (30°-60°)	10978.6	37.5			
FH (60°-80°)	6099.0	20.8			G3/7500
FVH (80°-90°)	114.7	0.4			G2/225
BL (0°-30°)	1232.6	4.2	B3/2500		
BM (30°-60°)	6781.8	23.1	B4/8500		
BH (60°-80°)	2579.5	8.8	B4/5000		G4/5000
BVH (80°-90°)	42.8	0.1			G1/100
UL (90°-100°)	12.5	0.0		U2/50	
UH (100°-180°)	1.4	0.0		U1/10	

BUG Rating: B4-U2-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0
2.5°	2678.0	2656.1	2659.4	2674.7	2626.4	2646.2	2625.3	2645.1	2638.5	2647.3	2653.9
5°	2716.5	2689.0	2691.2	2708.8	2671.5	2687.9	2667.1	2680.2	2669.3	2681.3	2682.4
7.5°	2769.2	2746.1	2742.9	2760.4	2728.6	2742.9	2722.0	2728.6	2717.6	2731.9	2727.5
10°	2839.5	2818.6	2813.2	2825.2	2800.0	2807.7	2785.7	2794.5	2778.0	2794.5	2786.8
12.5°	2917.5	2890.0	2891.1	2904.3	2879.1	2884.6	2867.0	2876.9	2857.1	2874.7	2869.2
15°	3009.8	2970.2	2977.9	2992.2	2968.0	2984.5	2963.6	2977.9	2959.2	2977.9	2971.3
17.5°	3129.5	3084.5	3090.0	3113.0	3093.3	3119.6	3095.5	3113.0	3104.2	3116.3	3114.1
20°	3281.1	3251.4	3245.9	3274.5	3245.9	3278.9	3265.7	3296.5	3298.7	3310.8	3316.2
22.5°	3483.2	3463.4	3450.3	3470.0	3444.8	3467.8	3486.5	3539.2	3559.0	3590.9	3593.1
25°	3752.3	3751.2	3721.6	3722.7	3690.8	3721.6	3774.3	3856.7	3909.4	3950.1	3934.7
27.5°	4115.9	4122.5	4077.5	4059.9	4022.6	4068.7	4177.4	4279.6	4375.2	4432.3	4432.3
30°	4590.5	4597.0	4531.1	4496.0	4461.9	4542.1	4671.7	4804.7	4940.9	5023.2	5004.6
32.5°	5218.8	5197.9	5103.4	5039.7	4981.5	5073.8	5223.2	5373.7	5559.3	5677.9	5663.7
35°	5981.1	5905.3	5810.8	5692.2	5567.0	5639.5	5780.1	5969.0	6227.2	6405.1	6360.1
37.5°	6866.5	6791.8	6630.3	6426.0	6207.4	6216.2	6327.1	6654.5	6977.4	7122.4	7091.6
40°	7785.9	7727.7	7579.4	7316.8	6921.4	6830.2	7012.6	7406.9	7715.6	7897.9	7846.3
42.5°	8722.9	8663.5	8551.5	8287.9	7763.9	7544.2	7734.2	8163.7	8493.3	8672.3	8613.0
45°	9657.6	9589.5	9500.6	9267.7	8767.9	8446.0	8552.6	8946.9	9247.9	9451.1	9329.2
47.5°	10479.3	10434.3	10373.8	10279.4	9842.2	9486.3	9478.6	9738.9	9946.5	10080.6	9931.2
50°	11194.4	11162.5	11196.6	11176.8	11017.5	10693.5	10494.7	10477.1	10544.1	10641.9	10428.8
52.5°	11835.9	11779.9	11906.2	12063.3	12180.8	12114.9	11471.2	11109.8	11036.2	11069.2	10827.5
55°	12361.0	12334.6	12546.6	12940.9	13484.7	13629.7	12474.1	11724.9	11453.6	11436.0	11161.4
57.5°	12681.7	12719.0	13143.1	13894.4	14891.8	14937.9	13705.5	12382.9	11860.1	11671.1	11354.8
60°	12170.9	12314.8	13038.7	14588.6	16085.8	16114.4	14609.5	12503.8	11352.6	10929.7	10537.5
62.5°	10591.3	10677.0	11908.4	14565.6	16476.9	16197.9	14824.8	11774.4	9967.4	9293.0	8930.5
65°	7460.7	7621.1	8940.4	13104.6	15014.8	15050.0	13600.0	10180.5	7959.4	7213.6	6979.6
67.5°	4505.9	4659.7	6064.6	9459.9	12206.1	12600.4	11344.9	7707.9	5707.6	4765.1	4528.9
70°	1463.1	1630.1	2763.7	5575.8	8978.8	9924.6	8537.2	5016.7	2988.9	2093.7	1839.9
72.5°	555.8	606.3	899.6	2435.3	5592.3	6625.9	5280.3	2516.6	926.0	551.4	484.4
75°	361.4	369.1	420.7	853.5	2696.7	3648.0	2545.1	737.1	371.3	329.5	305.4
77.5°	310.9	316.4	338.3	425.1	859.0	1395.0	730.5	376.8	309.8	274.6	258.1
80°	293.3	295.5	309.8	360.3	402.0	465.7	351.5	315.3	270.2	258.1	246.1
82.5°	277.9	285.6	293.3	327.3	326.2	335.0	282.3	247.2	229.6	241.7	237.3
85°	259.2	263.6	269.1	292.2	265.8	225.2	217.5	170.3	165.9	176.9	165.9
87.5°	182.3	193.3	186.7	196.6	184.5	143.9	121.9	96.7	76.9	63.7	61.5
90°	74.7	75.8	71.4	65.9	58.2	48.3	38.4	24.2	11.0	5.5	2.2
92.5°	58.2	58.2	56.0	50.5	43.9	36.2	27.5	15.4	7.7	3.3	1.1
95°	36.2	37.3	35.2	31.9	27.5	22.0	16.5	8.8	5.5	2.2	1.1
97.5°	23.1	23.1	20.9	18.7	15.4	11.0	7.7	6.6	4.4	2.2	0.0
100°	13.2	13.2	12.1	9.9	7.7	5.5	5.5	4.4	3.3	1.1	0.0
102.5°	7.7	7.7	5.5	4.4	3.3	3.3	3.3	3.3	2.2	1.1	0.0
105°	3.3	3.3	2.2	2.2	1.1	1.1	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	2.2	1.1	1.1



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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°	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0	2622.0
2.5°	2649.5	2629.7	2633.0	2614.3	2611.0	2592.4	2629.7	2634.1	2623.1	2633.0
5°	2680.2	2656.1	2663.8	2642.9	2639.6	2614.3	2647.3	2645.1	2636.3	2646.2
7.5°	2726.4	2701.1	2705.5	2682.4	2678.0	2650.6	2681.3	2671.5	2662.7	2674.7
10°	2791.2	2762.6	2764.8	2735.2	2738.5	2702.2	2739.6	2722.0	2711.0	2727.5
12.5°	2869.2	2837.3	2838.4	2807.7	2806.6	2771.4	2804.4	2794.5	2778.0	2803.3
15°	2970.2	2934.0	2930.7	2890.0	2879.1	2839.5	2870.3	2851.6	2840.6	2876.9
17.5°	3111.9	3071.3	3059.2	3009.8	2804.4	2685.7	2850.5	2906.5	2838.4	2827.4
20°	3300.9	3266.8	3239.4	3164.7	2819.7	2449.6	2176.0	2178.2	2466.0	2599.0
22.5°	3556.8	3516.2	3464.5	3358.0	2586.9	2294.7	2295.8	2292.5	1967.3	1830.0
25°	3907.2	3857.8	3752.3	3150.4	2746.1	2475.9	2469.3	2147.5	1968.4	1978.3
27.5°	4380.7	4279.6	3662.3	3412.9	3029.5	2711.0	2552.8	2161.8	2183.7	2199.1
30°	4982.6	4576.2	3957.7	3809.5	3370.1	3023.0	2360.6	2414.4	2458.3	2468.2
32.5°	5599.9	4589.4	4430.1	4273.0	3789.7	2750.5	2660.5	2762.6	2808.8	2814.3
35°	5594.4	5151.8	4946.4	4769.5	4178.5	2942.8	2999.9	3157.0	3274.5	3269.0
37.5°	5920.7	5772.4	5527.4	5303.4	3761.1	3315.1	3417.3	3595.3	3738.1	3733.7
40°	6602.8	6431.5	6172.2	5702.1	4164.3	3741.3	3884.1	4075.3	4176.3	4181.8
42.5°	7247.6	7105.9	6841.2	5327.5	4668.4	4254.3	4383.9	4512.5	4575.1	4594.9
45°	7889.1	7788.1	6907.1	5887.7	5278.1	4770.6	4856.3	4880.5	4946.4	4938.7
47.5°	8409.8	8297.8	6641.3	6590.7	6017.4	5260.5	5253.9	5222.1	5246.2	5251.7
50°	8885.4	7535.4	7175.1	7343.2	6792.9	5760.3	5635.1	5570.3	5537.3	5523.0
52.5°	9261.1	7537.6	7673.8	8120.9	7668.3	6303.0	6033.8	5851.5	5123.2	5693.3
55°	9580.8	7848.5	8146.2	8952.4	8423.0	6870.9	6394.1	6069.0	3419.5	2741.8
57.5°	9764.2	8084.7	8614.1	9731.2	9082.1	7502.5	5886.6	5090.3	1933.3	1931.1
60°	9055.7	7660.6	8600.9	10139.9	8892.0	5819.6	2396.8	2005.8	365.8	375.7
62.5°	7666.1	6664.3	8157.2	9915.8	8281.3	5119.9	2149.7	1544.4	12.1	9.9
65°	5939.4	5316.5	6868.7	8721.8	7534.3	4271.9	1602.7	1112.7	3.3	0.0
67.5°	3885.2	3746.8	5068.3	7232.2	6144.8	3309.7	1075.4	532.8	2.2	0.0
70°	1656.5	1919.0	3210.8	5244.0	4703.6	2277.1	518.5	192.2	1.1	0.0
72.5°	463.5	614.0	1429.1	3072.4	2958.1	1197.3	202.1	81.3	1.1	0.0
75°	274.6	236.2	409.7	1225.9	1440.1	420.7	93.4	62.6	1.1	0.0
77.5°	228.5	184.5	235.1	313.1	436.1	151.6	79.1	56.0	0.0	0.0
80°	214.2	163.7	203.2	218.6	215.3	126.3	78.0	56.0	0.0	0.0
82.5°	203.2	142.8	168.1	168.1	180.1	116.4	73.6	54.9	0.0	0.0
85°	152.7	100.0	112.0	145.0	129.6	82.4	53.8	43.9	0.0	0.0
87.5°	58.2	36.2	43.9	46.1	37.3	18.7	4.4	4.4	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: P579525
 CATALOG NUMBER: CST-CA10-210-750-U-T5N-HSS-HM-EX90

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)