

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: P579544

Luminaire Tested: **CST-CA6-230-750-U-T5-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579544
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-2)
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-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: 25794 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U2 - G4

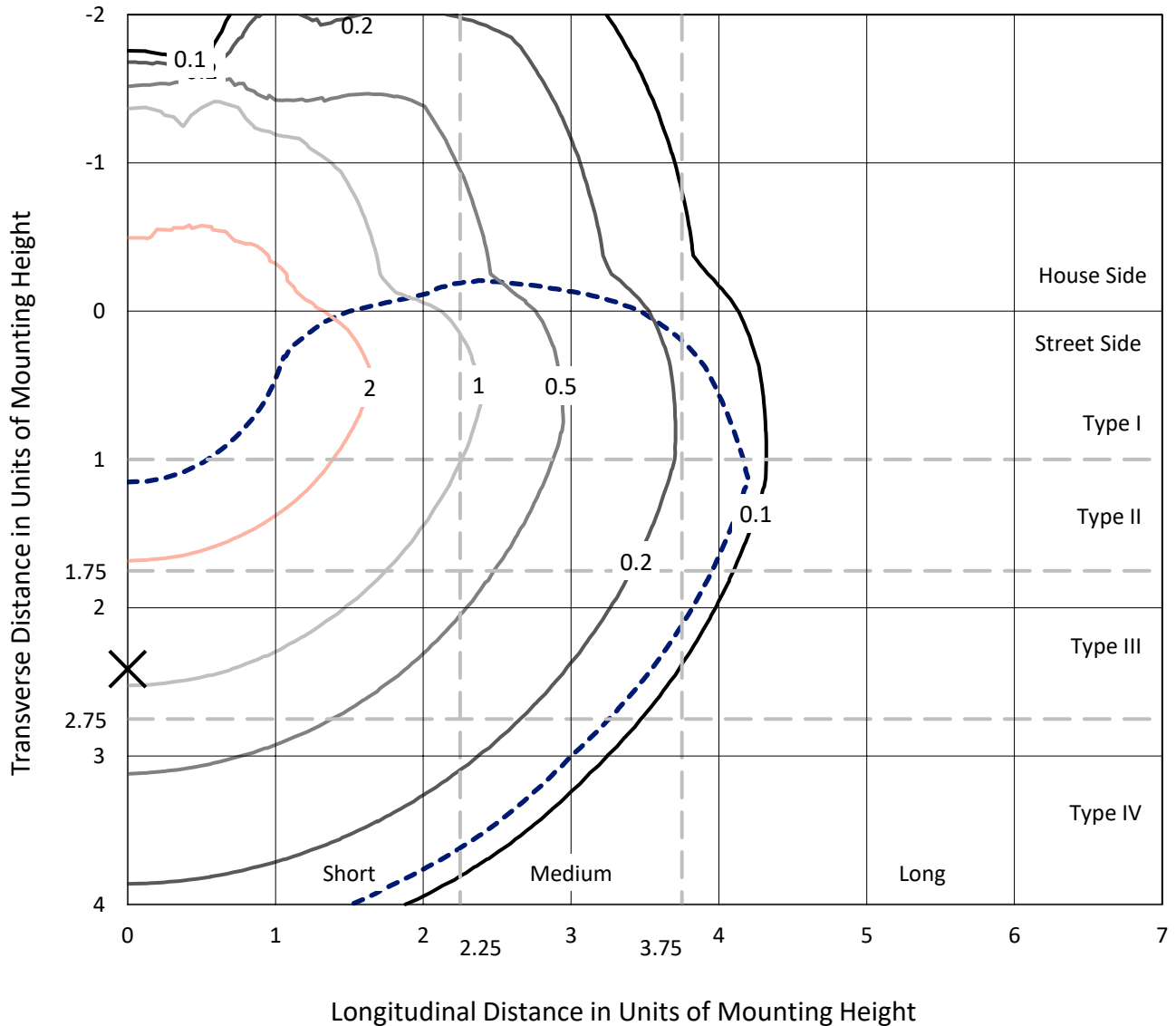
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P579544
 CATALOG NUMBER: CST-CA6-230-750-U-T5-HSS-HM-EX120

Iso-Footcandle Lines of Horizontal Illumination

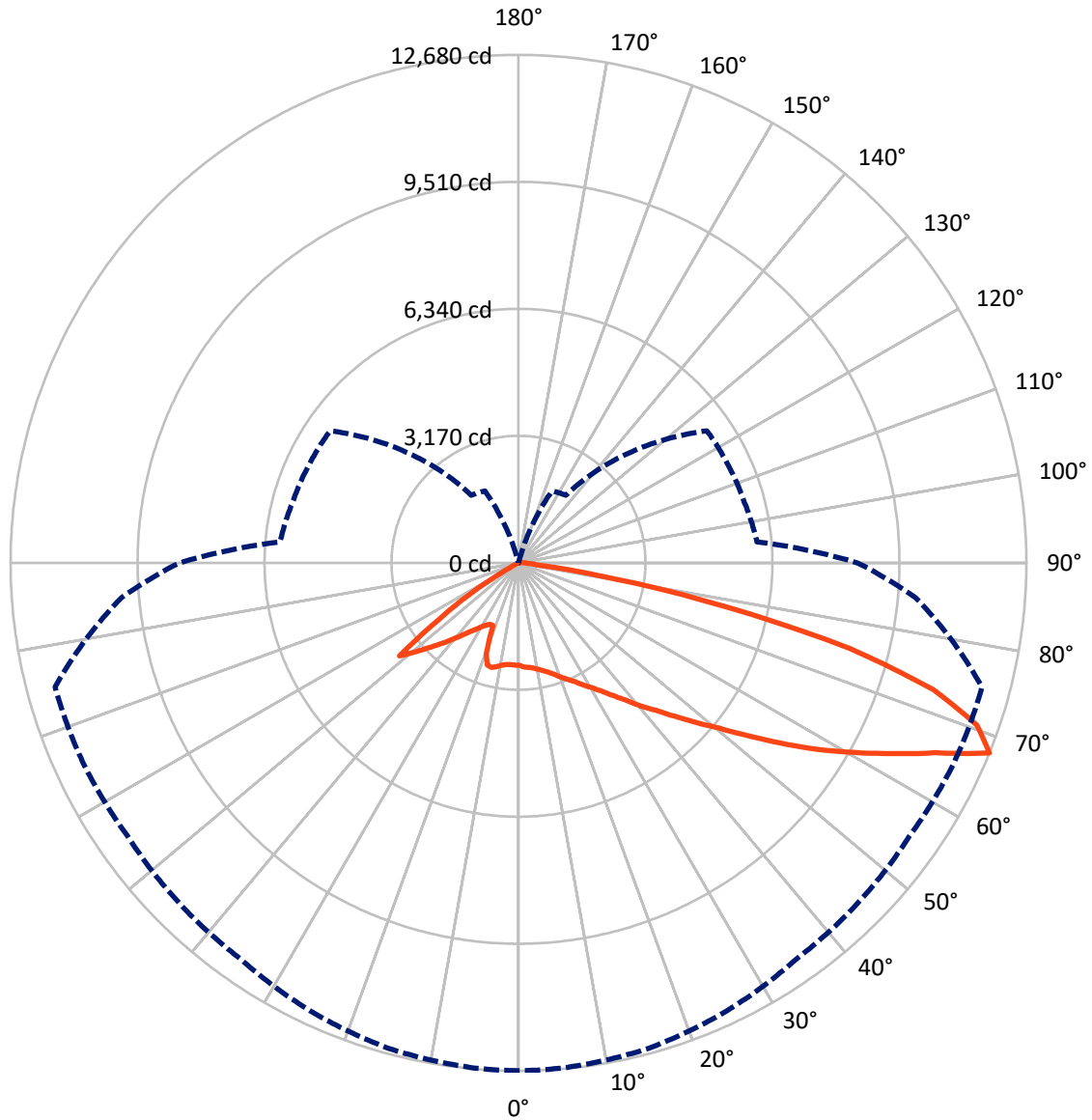
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P579544
CATALOG NUMBER: CST-CA6-230-750-U-T5-HSS-HM-EX120

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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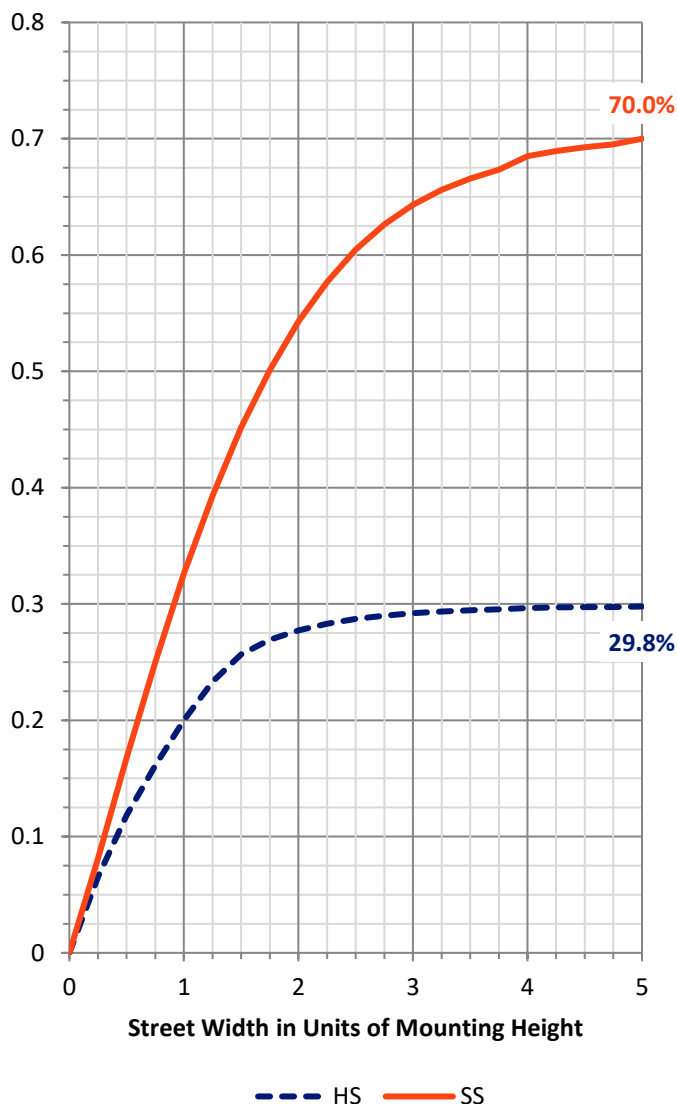
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7699.7	2.6	7702.2
	% Fixture	29.9	0.0	29.9
Street Side	Lumens	18062.7	29.0	18091.8
	% Fixture	70.0	0.1	70.1
Total	Lumens	25762.4	31.6	25794.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.4	1.0
10°-20°	762.8	3.0
20°-30°	1280.2	5.0
30°-40°	2075.9	8.0
40°-50°	3392.2	13.2
50°-60°	5316.2	20.6
60°-70°	7120.1	27.6
70°-80°	5189.6	20.1
80°-90°	379.0	1.5
90°-100°	24.2	0.1
100°-110°	6.9	0.0
110°-120°	0.5	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°	25762.4	99.9
0°-180°	25794.0	100.0

Coefficient of Utilization

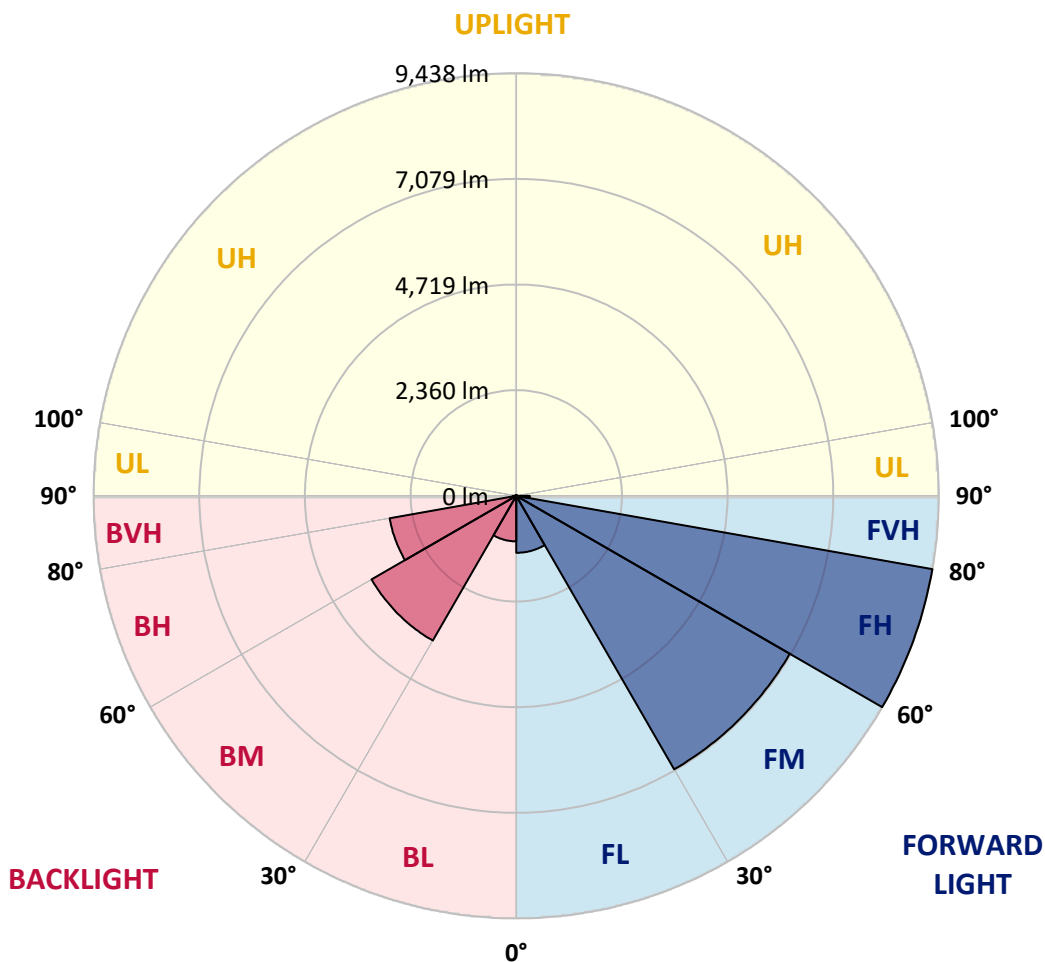


REPORT NUMBER: P579544
 CATALOG NUMBER: CST-CA6-230-750-U-T5-HSS-HM-EX120

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1272.3	4.9			
FM (30°-60°)	7052.5	27.3			
FH (60°-80°)	9438.2	36.6			G4/12000
FVH (80°-90°)	299.7	1.2			G3/500
BL (0°-30°)	1017.1	3.9	B3/2500		
BM (30°-60°)	3731.8	14.5	B3/5000		
BH (60°-80°)	2871.4	11.1	B4/5000		G4/5000
BVH (80°-90°)	79.3	0.3			G1/100
UL (90°-100°)	24.2	0.1		U2/50	
UH (100°-180°)	7.4	0.0		U1/10	

BUG Rating: B4-U2-G4
 Type IV Short





REPORT NUMBER: P579544

CATALOG NUMBER: CST-CA6-230-750-U-T5-HSS-HM-EX120

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2555.9	2555.9	2555.9	2555.9	2555.9	2555.9	2555.9	2555.9	2555.9	2555.9	2555.9
2.5°	2604.7	2589.5	2590.6	2604.7	2562.4	2576.5	2558.1	2572.2	2562.4	2565.7	2572.2
5°	2621.0	2604.7	2605.8	2623.1	2585.2	2597.1	2572.2	2579.7	2571.1	2575.4	2575.4
7.5°	2653.5	2635.1	2634.0	2644.8	2605.8	2610.1	2587.3	2588.4	2575.4	2584.1	2579.7
10°	2702.3	2687.1	2676.3	2682.8	2648.1	2645.9	2616.6	2617.7	2601.4	2611.2	2603.6
12.5°	2761.9	2741.3	2739.2	2741.3	2703.4	2694.7	2664.3	2666.5	2637.2	2652.4	2643.7
15°	2837.8	2805.3	2805.3	2817.2	2768.4	2761.9	2725.1	2727.2	2696.9	2708.8	2700.1
17.5°	2931.1	2899.6	2894.2	2902.9	2860.6	2851.9	2814.0	2811.8	2778.2	2781.4	2773.9
20°	3051.5	3020.0	3007.0	3028.7	2975.5	2969.0	2923.5	2919.2	2883.4	2873.6	2869.3
22.5°	3163.1	3138.2	3131.7	3155.6	3100.3	3094.8	3051.5	3046.0	3012.4	2998.3	2912.7
25°	3288.9	3283.5	3281.3	3288.9	3236.9	3226.0	3192.4	3184.8	3156.6	3139.3	3035.2
27.5°	3451.6	3449.4	3442.9	3444.0	3396.3	3386.5	3355.1	3349.7	3320.4	3300.9	3167.5
30°	3621.8	3621.8	3607.7	3615.3	3591.5	3576.3	3551.4	3531.8	3513.4	3492.8	3324.7
32.5°	3818.1	3817.0	3804.0	3826.8	3809.4	3809.4	3794.3	3773.7	3741.1	3731.4	3527.5
35°	4070.8	4054.5	4049.1	4086.0	4080.5	4090.3	4084.9	4063.2	4036.1	4013.3	3766.1
37.5°	4350.5	4346.2	4362.5	4385.2	4397.2	4423.2	4406.9	4405.8	4401.5	4344.0	3702.1
40°	4695.4	4676.9	4699.7	4711.6	4703.0	4745.3	4731.2	4743.1	4775.6	4313.7	3697.7
42.5°	5039.1	5022.9	5039.1	5097.7	5084.7	5135.6	5129.1	5175.8	5194.2	4377.7	3998.1
45°	5462.0	5443.6	5456.6	5526.0	5532.5	5594.3	5627.9	5672.4	5681.1	4791.9	4360.3
47.5°	5947.8	5917.5	5942.4	5975.0	6073.6	6132.2	6164.7	6218.9	6274.2	5290.7	4772.4
50°	6483.5	6481.4	6508.5	6564.9	6677.6	6736.2	6792.6	6849.0	6940.1	5847.0	5234.3
52.5°	7164.5	7150.4	7197.1	7250.2	7349.9	7440.0	7507.2	7565.7	7663.3	6409.8	5734.2
55°	7943.1	7894.3	7983.2	8073.2	8115.5	8221.8	8268.4	8317.2	8410.5	7001.9	6025.9
57.5°	8783.5	8771.6	8833.4	8865.9	8957.0	9023.2	9048.1	9101.2	9100.1	7617.8	6522.6
60°	9610.9	9597.9	9670.5	9690.0	9762.7	9822.3	9813.7	9861.4	9878.7	8195.8	7009.5
62.5°	10481.6	10460.0	10527.2	10531.5	10488.2	10584.7	10574.9	10615.0	10599.8	8760.7	7488.7
65°	11433.7	11450.0	11471.7	11382.8	11278.7	11362.2	11360.0	11435.9	11490.1	9550.2	8130.7
67.5°	12679.7	12659.1	12547.4	12332.7	12080.0	11995.4	11905.4	11960.7	11975.9	9942.7	8459.3
70°	12141.8	12096.3	12046.4	11827.4	11522.7	11307.9	11168.1	11226.6	11288.4	9396.2	7945.3
72.5°	10830.8	10718.0	10486.0	10293.0	10117.3	9908.0	9737.8	9839.7	9975.2	8334.6	7035.5
75°	8544.9	8439.8	8270.6	8139.4	8045.0	8042.9	8035.3	8114.4	8094.9	6767.6	5720.1
77.5°	5291.8	5511.9	5668.1	5556.4	5595.4	5515.2	5691.9	5796.0	5890.4	4851.5	4075.1
80°	2443.1	2499.5	2776.0	2704.5	2647.0	2630.7	2641.6	2822.6	2875.8	2177.4	1823.9
82.5°	557.4	534.6	554.1	514.0	511.8	488.0	491.2	491.2	473.9	401.2	336.2
85°	281.9	288.4	290.6	278.7	246.2	221.2	204.9	173.5	149.6	128.0	108.4
87.5°	188.7	194.1	197.4	181.1	162.7	142.1	129.0	105.2	83.5	52.1	40.1
90°	129.0	128.0	124.7	116.0	104.1	88.9	71.6	49.9	29.3	10.8	7.6
92.5°	92.2	90.0	88.9	81.3	72.7	60.7	46.6	31.4	16.3	7.6	4.3
95°	60.7	59.6	59.6	55.3	48.8	40.1	31.4	20.6	11.9	6.5	4.3
97.5°	42.3	41.2	41.2	39.0	34.7	29.3	21.7	14.1	9.8	6.5	4.3
100°	29.3	29.3	29.3	27.1	24.9	20.6	16.3	10.8	8.7	6.5	4.3
102.5°	19.5	19.5	20.6	19.5	17.4	14.1	10.8	8.7	7.6	5.4	4.3
105°	13.0	13.0	13.0	13.0	11.9	9.8	8.7	7.6	6.5	5.4	4.3
107.5°	8.7	8.7	8.7	8.7	7.6	6.5	6.5	6.5	5.4	5.4	4.3
110°	5.4	5.4	5.4	6.5	5.4	5.4	5.4	5.4	5.4	4.3	4.3



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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



REPORT NUMBER: P579544

CATALOG NUMBER: CST-CA6-230-750-U-T5-HSS-HM-EX120

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2555.9	2555.9	2555.9	2555.9	2555.9	2555.9	2555.9	2555.9	2555.9	2555.9
2.5°	2566.7	2551.6	2559.1	2544.0	2537.5	2523.4	2550.5	2552.6	2550.5	2554.8
5°	2570.0	2552.6	2561.3	2544.0	2540.7	2524.4	2551.6	2551.6	2545.0	2548.3
7.5°	2577.6	2559.1	2565.7	2545.0	2545.0	2525.5	2558.1	2555.9	2550.5	2558.1
10°	2603.6	2581.9	2581.9	2562.4	2564.6	2544.0	2584.1	2584.1	2579.7	2592.8
12.5°	2643.7	2616.6	2617.7	2590.6	2594.9	2578.7	2627.5	2629.6	2629.6	2651.3
15°	2695.8	2654.6	2658.9	2629.6	2638.3	2618.8	2662.2	2660.0	2665.4	2696.9
17.5°	2759.8	2714.2	2676.3	2580.8	2524.4	2526.6	2655.7	2715.3	2645.9	2666.5
20°	2786.9	2565.7	2445.3	2410.6	2403.0	2282.6	2036.5	2074.4	2306.5	2407.3
22.5°	2604.7	2534.2	2522.3	2477.8	2149.2	2058.2	2073.3	2051.7	1823.9	1694.9
25°	2693.6	2647.0	2619.9	2228.4	2154.7	2138.4	2127.6	1921.5	1674.3	1686.2
27.5°	2819.4	2758.7	2433.4	2238.2	2252.3	2227.3	2164.4	1728.5	1720.9	1740.4
30°	2968.0	2815.1	2371.5	2353.1	2369.4	2336.8	1819.6	1802.2	1802.2	1821.8
32.5°	3150.1	2553.7	2516.9	2519.0	2508.2	2139.5	1915.0	1910.7	1923.7	1940.0
35°	3099.2	2724.0	2727.2	2745.7	2720.7	2092.9	2064.7	2048.4	2059.2	2065.7
37.5°	2999.4	2979.9	2979.9	2959.3	2322.7	2256.6	2226.2	2224.1	2223.0	2223.0
40°	3251.0	3232.5	3209.8	3174.0	2430.1	2447.5	2401.9	2396.5	2399.7	2411.7
42.5°	3537.3	3529.7	3527.5	2724.0	2653.5	2666.5	2617.7	2603.6	2603.6	2630.7
45°	3874.5	3864.7	3625.1	2911.6	2899.6	2914.8	2860.6	2827.0	2845.4	2864.9
47.5°	4261.6	4261.6	3209.8	3192.4	3192.4	3201.1	3146.9	3101.3	3119.8	3126.3
50°	4685.6	4023.1	3531.8	3515.6	3530.8	3526.4	3470.0	3047.1	3438.6	3441.8
52.5°	4803.8	3912.5	3885.3	3866.9	3885.3	3882.1	3823.5	2541.8	3719.4	3772.6
55°	4258.4	4261.6	4256.2	4229.1	4248.6	4241.0	4183.5	2774.9	2742.4	2444.2
57.5°	4604.3	4608.6	4606.5	4602.1	4619.5	3356.2	4333.2	2507.1	1531.1	1532.2
60°	4980.6	4958.9	4952.4	4942.6	4189.0	2379.1	1805.5	174.6	598.6	589.9
62.5°	5322.2	5314.6	5291.8	5286.4	3554.6	1873.8	1830.4	40.1	31.4	30.4
65°	5797.1	5729.9	5711.4	5654.0	3788.8	1995.3	1954.1	11.9	1.1	0.0
67.5°	5973.9	5837.2	5771.1	5740.7	3855.0	2058.2	1979.0	11.9	1.1	0.0
70°	5639.9	5470.7	5387.2	5353.6	3602.3	1923.7	1845.6	11.9	1.1	0.0
72.5°	5001.2	4876.5	4842.9	4735.5	3176.2	1688.4	1620.1	11.9	0.0	0.0
75°	4102.2	4056.7	4015.5	3901.6	2581.9	1341.4	1280.7	10.8	0.0	0.0
77.5°	2985.3	2918.1	2842.2	2718.5	1742.6	876.2	844.7	9.8	0.0	0.0
80°	1345.7	1290.4	1272.0	1079.0	618.1	285.2	251.6	8.7	0.0	0.0
82.5°	261.3	235.3	223.4	214.7	138.8	77.0	67.2	6.5	0.0	0.0
85°	88.9	98.7	114.9	126.9	78.1	46.6	39.0	4.3	0.0	0.0
87.5°	34.7	46.6	56.4	58.6	29.3	19.5	10.8	2.2	0.0	0.0
90°	6.5	8.7	7.6	5.4	3.3	1.1	0.0	0.0	0.0	0.0
92.5°	3.3	4.3	3.3	3.3	2.2	1.1	0.0	0.0	0.0	0.0
95°	4.3	4.3	4.3	3.3	2.2	1.1	0.0	0.0	0.0	0.0
97.5°	4.3	4.3	4.3	3.3	2.2	1.1	0.0	0.0	0.0	0.0
100°	4.3	4.3	4.3	3.3	2.2	1.1	0.0	0.0	0.0	0.0
102.5°	4.3	4.3	4.3	3.3	2.2	1.1	0.0	0.0	0.0	0.0
105°	4.3	5.4	4.3	3.3	2.2	1.1	0.0	0.0	0.0	0.0
107.5°	4.3	5.4	4.3	3.3	2.2	1.1	0.0	0.0	0.0	0.0
110°	4.3	5.4	4.3	3.3	2.2	1.1	0.0	0.0	0.0	0.0



REPORT NUMBER: P579544
 CATALOG NUMBER: CST-CA6-230-750-U-T5-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)