

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: P579597

Luminaire Tested: **CST-CA6-230-760-U-T5N-HSS-HM-EX90**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579597
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-CA6-230-760-U-T5N-HSS-HM-EX90
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (6) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28316 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U2 - G3

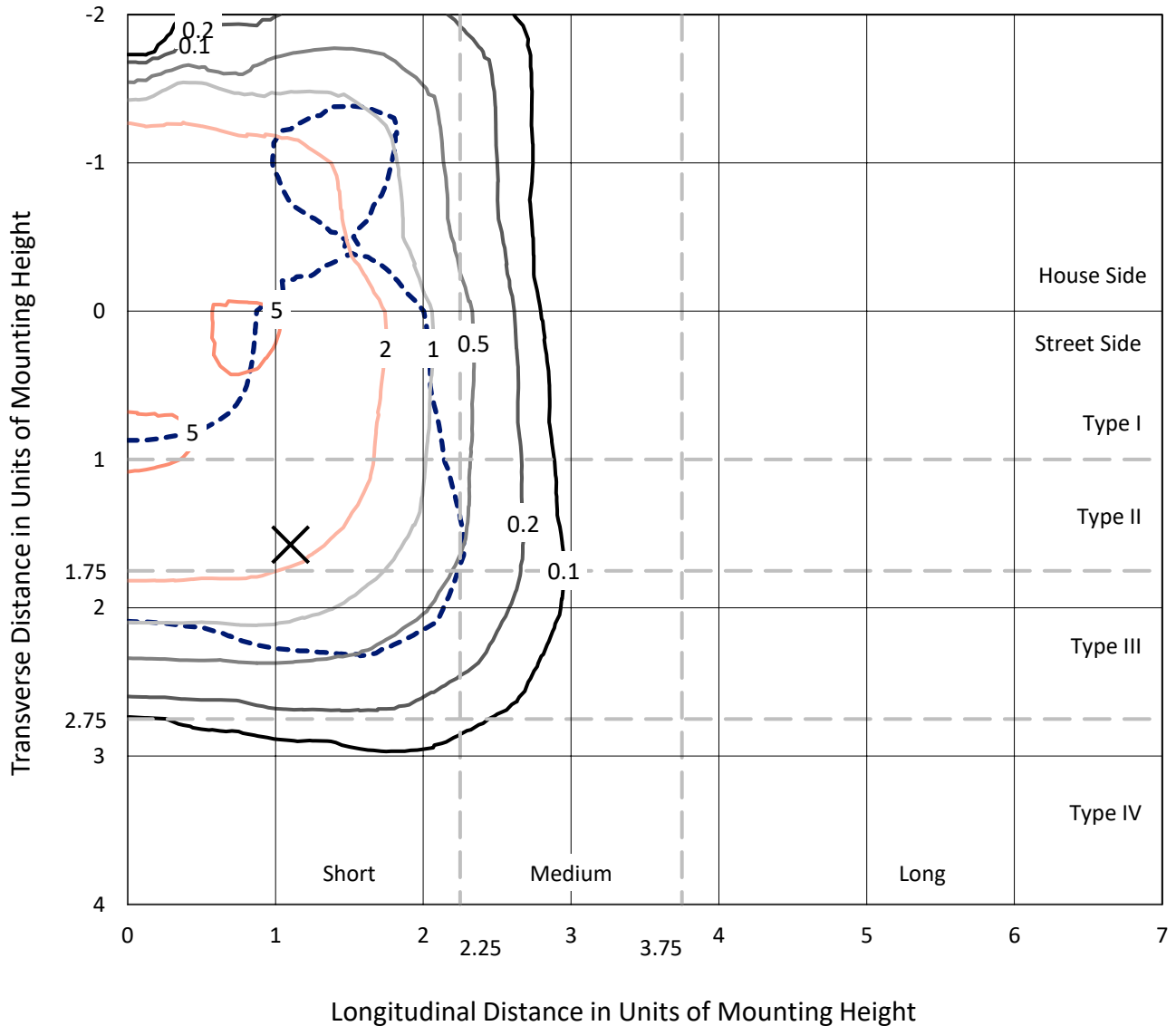
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

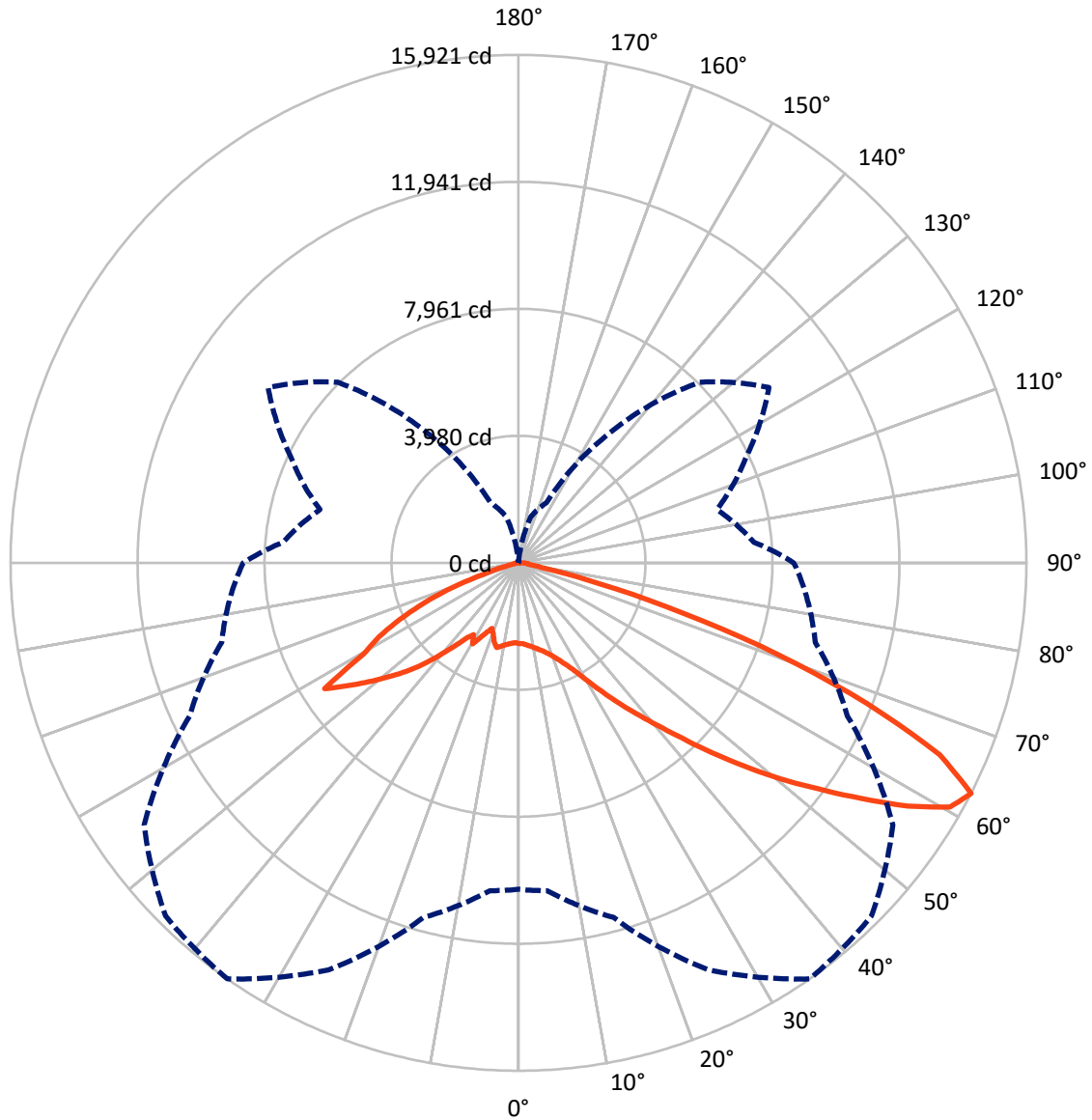
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

REPORT NUMBER: P579597
CATALOG NUMBER: CST-CA6-230-760-U-T5N-HSS-HM-EX90

Luminous Intensity Polar Plot



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

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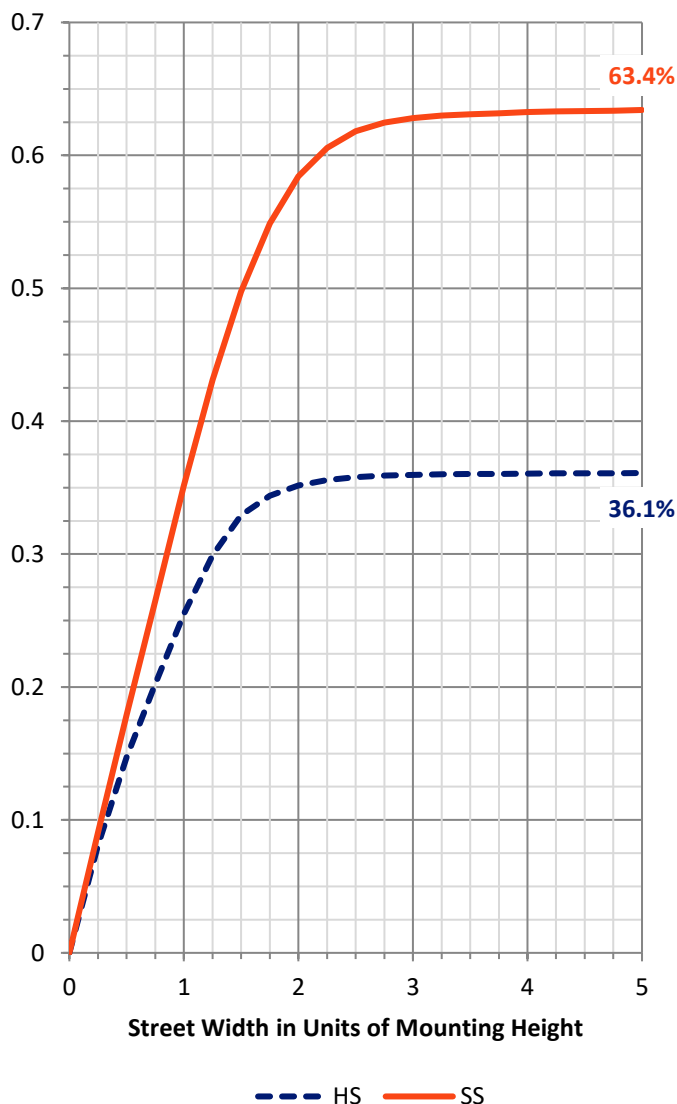
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10278.0	0.0	10278.1
	% Fixture	36.3	0.0	36.3
Street Side	Lumens	18024.5	13.4	18037.9
	% Fixture	63.7	0.0	63.7
Total	Lumens	28302.6	13.4	28316.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.1	0.9
10°-20°	805.0	2.8
20°-30°	1548.8	5.5
30°-40°	3089.7	10.9
40°-50°	5641.5	19.9
50°-60°	8430.4	29.8
60°-70°	7063.9	24.9
70°-80°	1321.9	4.7
80°-90°	152.2	0.5
90°-100°	12.1	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°	28302.6	100.0
0°-180°	28316.0	100.0

Coefficient of Utilization



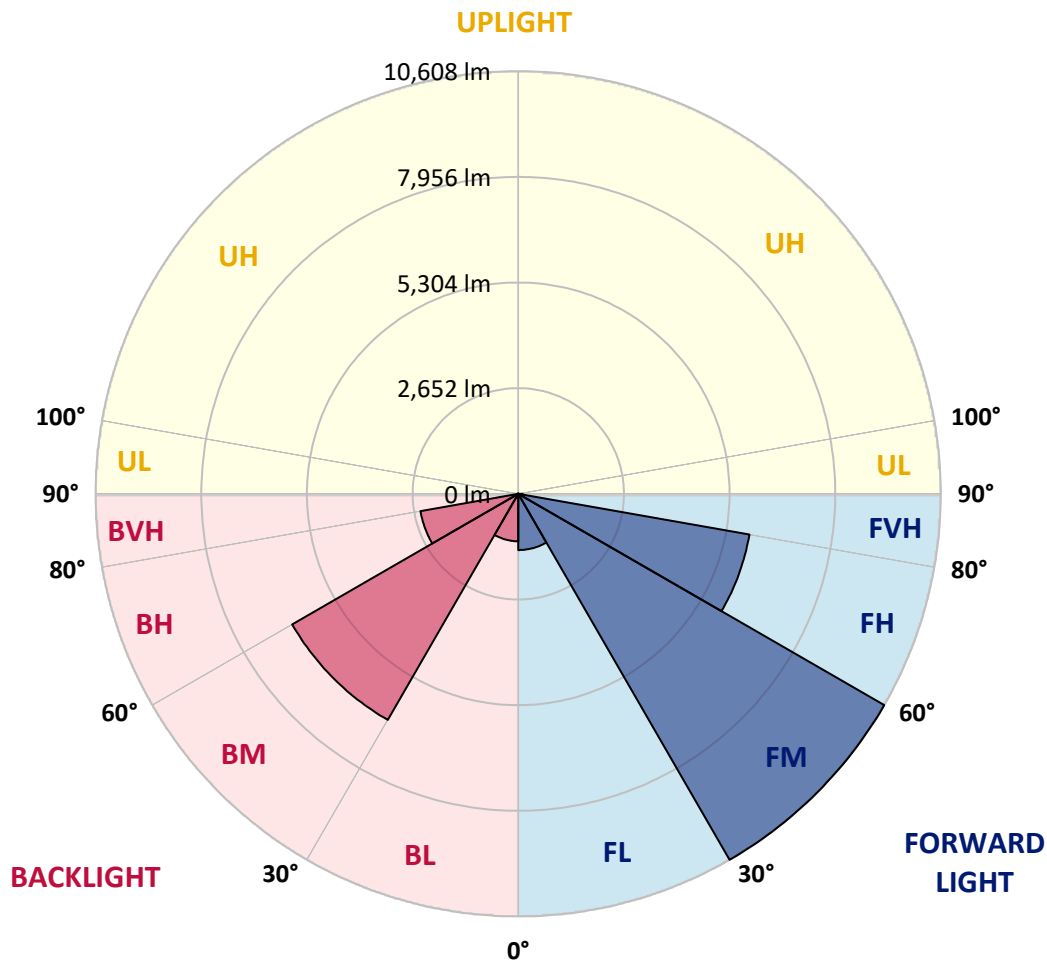
REPORT NUMBER: P579597
 CATALOG NUMBER: CST-CA6-230-760-U-T5N-HSS-HM-EX90

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1411.9	5.0			
FM (30°-60°)	10608.5	37.5			
FH (60°-80°)	5893.4	20.8			G3/7500
FVH (80°-90°)	110.8	0.4			G2/225
BL (0°-30°)	1191.0	4.2	B3/2500		
BM (30°-60°)	6553.2	23.1	B4/8500		
BH (60°-80°)	2492.5	8.8	B3/2500		G3/2500
BVH (80°-90°)	41.4	0.1			G1/100
UL (90°-100°)	12.1	0.0		U2/50	
UH (100°-180°)	1.3	0.0		U1/10	

BUG Rating: B4-U2-G3

Type III Short





REPORT NUMBER: P579597

CATALOG NUMBER: CST-CA6-230-760-U-T5N-HSS-HM-EX90

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2533.6	2533.6	2533.6	2533.6	2533.6	2533.6	2533.6	2533.6	2533.6	2533.6	2533.6
2.5°	2587.7	2566.5	2569.7	2584.6	2537.9	2557.0	2536.8	2555.9	2549.5	2558.0	2564.4
5°	2624.9	2598.4	2600.5	2617.5	2581.4	2597.3	2577.1	2589.9	2579.3	2590.9	2592.0
7.5°	2675.8	2653.6	2650.4	2667.4	2636.6	2650.4	2630.2	2636.6	2626.0	2639.8	2635.5
10°	2743.8	2723.6	2718.3	2730.0	2705.6	2713.0	2691.8	2700.3	2684.3	2700.3	2692.8
12.5°	2819.1	2792.6	2793.7	2806.4	2782.0	2787.3	2770.3	2779.9	2760.8	2777.7	2772.4
15°	2908.3	2870.1	2877.5	2891.3	2868.0	2883.9	2863.7	2877.5	2859.5	2877.5	2871.1
17.5°	3024.0	2980.5	2985.8	3008.1	2989.0	3014.4	2991.1	3008.1	2999.6	3011.3	3009.1
20°	3170.5	3141.8	3136.5	3164.1	3136.5	3168.3	3155.6	3185.3	3187.5	3199.1	3204.4
22.5°	3365.8	3346.7	3333.9	3353.0	3328.6	3350.9	3369.0	3419.9	3439.0	3469.8	3471.9
25°	3625.8	3624.8	3596.1	3597.2	3566.4	3596.1	3647.0	3726.7	3777.6	3816.9	3802.0
27.5°	3977.2	3983.5	3940.0	3923.0	3886.9	3931.5	4036.6	4135.3	4227.6	4282.8	4282.8
30°	4435.7	4442.1	4378.4	4344.4	4311.5	4389.0	4514.2	4642.7	4774.3	4853.9	4835.8
32.5°	5042.8	5022.7	4931.4	4869.8	4813.6	4902.7	5047.1	5192.5	5371.9	5486.5	5472.7
35°	5779.4	5706.2	5614.9	5500.3	5379.3	5449.3	5585.2	5767.8	6017.2	6189.2	6145.6
37.5°	6635.0	6562.8	6406.8	6209.3	5998.1	6006.6	6113.8	6430.1	6742.2	6882.3	6852.5
40°	7523.4	7467.1	7323.8	7070.1	6688.0	6599.9	6776.1	7157.2	7455.4	7631.6	7581.7
42.5°	8428.8	8371.4	8263.2	8008.4	7502.1	7289.9	7473.5	7888.5	8206.9	8379.9	8322.6
45°	9332.0	9266.2	9180.2	8955.2	8472.3	8161.3	8264.2	8645.3	8936.1	9132.5	9014.7
47.5°	10126.0	10082.5	10024.1	9932.8	9510.4	9166.5	9159.0	9410.6	9611.2	9740.7	9596.3
50°	10817.0	10786.2	10819.1	10800.0	10646.1	10333.0	10140.8	10123.9	10188.6	10283.1	10077.2
52.5°	11436.8	11382.7	11504.8	11656.5	11770.1	11706.4	11084.4	10735.2	10664.1	10696.0	10462.4
55°	11944.2	11918.7	12123.6	12504.6	13030.0	13170.1	12053.5	11329.6	11067.5	11050.5	10785.1
57.5°	12254.1	12290.2	12699.9	13425.9	14389.7	14434.3	13243.4	11965.4	11460.2	11277.6	10971.9
60°	11760.6	11899.6	12599.1	14096.8	15543.5	15571.1	14116.9	12082.2	10969.8	10561.2	10182.2
62.5°	10234.2	10317.0	11506.9	14074.5	15921.3	15651.7	14325.0	11377.4	9631.4	8979.6	8629.4
65°	7209.2	7364.2	8638.9	12662.8	14508.6	14542.6	13141.5	9837.3	7691.1	6970.4	6744.3
67.5°	4354.0	4502.6	5860.1	9141.0	11794.5	12175.6	10962.4	7448.0	5515.2	4604.5	4376.2
70°	1413.8	1575.2	2670.5	5387.8	8676.1	9590.0	8249.4	4847.5	2888.1	2023.1	1777.9
72.5°	537.1	585.9	869.3	2353.2	5403.7	6402.5	5102.3	2431.7	894.8	532.8	468.1
75°	349.2	356.6	406.5	824.7	2605.8	3525.0	2459.3	712.2	358.8	318.4	295.1
77.5°	300.4	305.7	326.9	410.8	830.0	1348.0	705.8	364.1	299.3	265.4	249.4
80°	283.4	285.5	299.3	348.1	388.5	450.0	339.7	304.6	261.1	249.4	237.8
82.5°	268.5	276.0	283.4	316.3	315.2	323.7	272.8	238.8	221.8	233.5	229.3
85°	250.5	254.7	260.0	282.3	256.9	217.6	210.2	164.5	160.3	170.9	160.3
87.5°	176.2	186.8	180.4	190.0	178.3	139.0	117.8	93.4	74.3	61.6	59.4
90°	72.2	73.2	69.0	63.7	56.3	46.7	37.1	23.4	10.6	5.3	2.1
92.5°	56.3	56.3	54.1	48.8	42.5	35.0	26.5	14.9	7.4	3.2	1.1
95°	35.0	36.1	34.0	30.8	26.5	21.2	15.9	8.5	5.3	2.1	1.1
97.5°	22.3	22.3	20.2	18.0	14.9	10.6	7.4	6.4	4.2	2.1	0.0
100°	12.7	12.7	11.7	9.6	7.4	5.3	5.3	4.2	3.2	1.1	0.0
102.5°	7.4	7.4	5.3	4.2	3.2	3.2	3.2	3.2	2.1	1.1	0.0
105°	3.2	3.2	2.1	2.1	1.1	1.1	2.1	2.1	2.1	1.1	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.1	2.1	1.1	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.1	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°	2533.6	2533.6	2533.6	2533.6	2533.6	2533.6	2533.6	2533.6	2533.6	2533.6
2.5°	2560.2	2541.0	2544.2	2526.2	2523.0	2505.0	2541.0	2545.3	2534.7	2544.2
5°	2589.9	2566.5	2574.0	2553.8	2550.6	2526.2	2558.0	2555.9	2547.4	2557.0
7.5°	2634.5	2610.0	2614.3	2592.0	2587.7	2561.2	2590.9	2581.4	2572.9	2584.6
10°	2697.1	2669.5	2671.6	2642.9	2646.1	2611.1	2647.2	2630.2	2619.6	2635.5
12.5°	2772.4	2741.7	2742.7	2713.0	2711.9	2678.0	2709.8	2700.3	2684.3	2708.8
15°	2870.1	2835.1	2831.9	2792.6	2782.0	2743.8	2773.5	2755.5	2744.8	2779.9
17.5°	3007.0	2967.7	2956.1	2908.3	2709.8	2595.2	2754.4	2808.5	2742.7	2732.1
20°	3189.6	3156.7	3130.1	3058.0	2724.7	2367.0	2102.7	2104.8	2382.9	2511.3
22.5°	3436.9	3397.6	3347.7	3244.8	2499.7	2217.3	2218.4	2215.2	1901.0	1768.3
25°	3775.5	3727.7	3625.8	3044.2	2653.6	2392.4	2386.1	2075.1	1902.1	1911.6
27.5°	4233.0	4135.3	3538.8	3297.8	2927.4	2619.6	2466.7	2088.9	2110.1	2125.0
30°	4814.6	4421.9	3824.3	3681.0	3256.4	2921.0	2281.0	2333.0	2375.5	2385.0
32.5°	5411.1	4434.6	4280.7	4128.9	3661.9	2657.8	2570.8	2669.5	2714.1	2719.4
35°	5405.8	4978.1	4779.6	4608.7	4037.7	2843.6	2898.7	3050.5	3164.1	3158.8
37.5°	5721.1	5577.8	5341.1	5124.6	3634.3	3203.4	3302.1	3474.0	3612.0	3607.8
40°	6380.2	6214.6	5964.1	5509.8	4023.9	3615.2	3753.2	3937.9	4035.5	4040.8
42.5°	7003.3	6866.3	6610.5	5147.9	4511.0	4110.9	4236.1	4360.3	4420.8	4439.9
45°	7623.1	7525.5	6674.2	5689.2	5100.1	4609.8	4692.6	4715.9	4779.6	4772.2
47.5°	8126.3	8018.0	6417.4	6368.5	5814.5	5083.2	5076.8	5046.0	5069.4	5074.7
50°	8585.9	7281.4	6933.2	7095.6	6563.8	5566.1	5445.1	5382.5	5350.6	5336.8
52.5°	8948.9	7283.5	7415.1	7847.1	7409.8	6090.4	5830.4	5654.2	4950.5	5501.4
55°	9257.7	7583.9	7871.5	8650.6	8139.0	6639.2	6178.5	5864.4	3304.2	2649.3
57.5°	9435.0	7812.1	8323.7	9403.1	8775.8	7249.5	5688.2	4918.6	1868.1	1866.0
60°	8750.4	7402.4	8310.9	9798.0	8592.2	5623.4	2316.0	1938.2	353.5	363.0
62.5°	7407.7	6439.7	7882.1	9581.5	8002.1	4947.3	2077.2	1492.4	11.7	9.6
65°	5739.1	5137.3	6637.1	8427.7	7280.3	4127.9	1548.6	1075.2	3.2	0.0
67.5°	3754.3	3620.5	4897.4	6988.4	5937.6	3198.1	1039.1	514.8	2.1	0.0
70°	1600.6	1854.3	3102.5	5067.2	4545.0	2200.3	501.0	185.7	1.1	0.0
72.5°	447.9	593.3	1380.9	2968.8	2858.4	1157.0	195.3	78.5	1.1	0.0
75°	265.4	228.2	395.9	1184.5	1391.5	406.5	90.2	60.5	1.1	0.0
77.5°	220.8	178.3	227.1	302.5	421.4	146.5	76.4	54.1	0.0	0.0
80°	207.0	158.2	196.4	211.2	208.0	122.1	75.4	54.1	0.0	0.0
82.5°	196.4	138.0	162.4	162.4	174.1	112.5	71.1	53.1	0.0	0.0
85°	147.5	96.6	108.3	140.1	125.2	79.6	52.0	42.5	0.0	0.0
87.5°	56.3	35.0	42.5	44.6	36.1	18.0	4.2	4.2	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: P579597
 CATALOG NUMBER: CST-CA6-230-760-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)