

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: P579572

Luminaire Tested: **CST-CA10-210-760-U-T5N-HSS-HM-EX180**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579572
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-CA10-210-760-U-T5N-HSS-HM-EX180
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23564 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U2 - G3

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

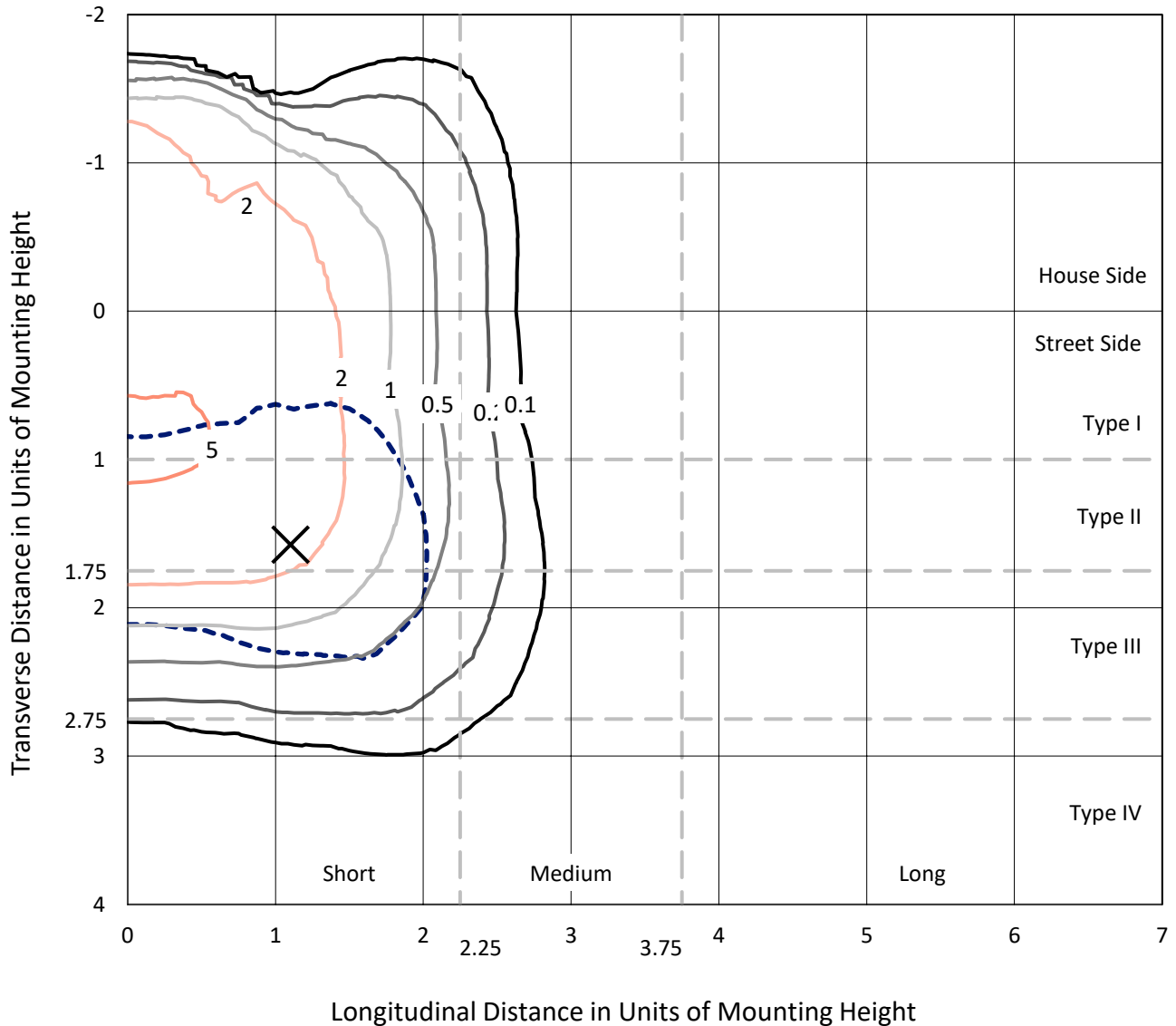




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Iso-Footcandle Lines of Horizontal Illumination

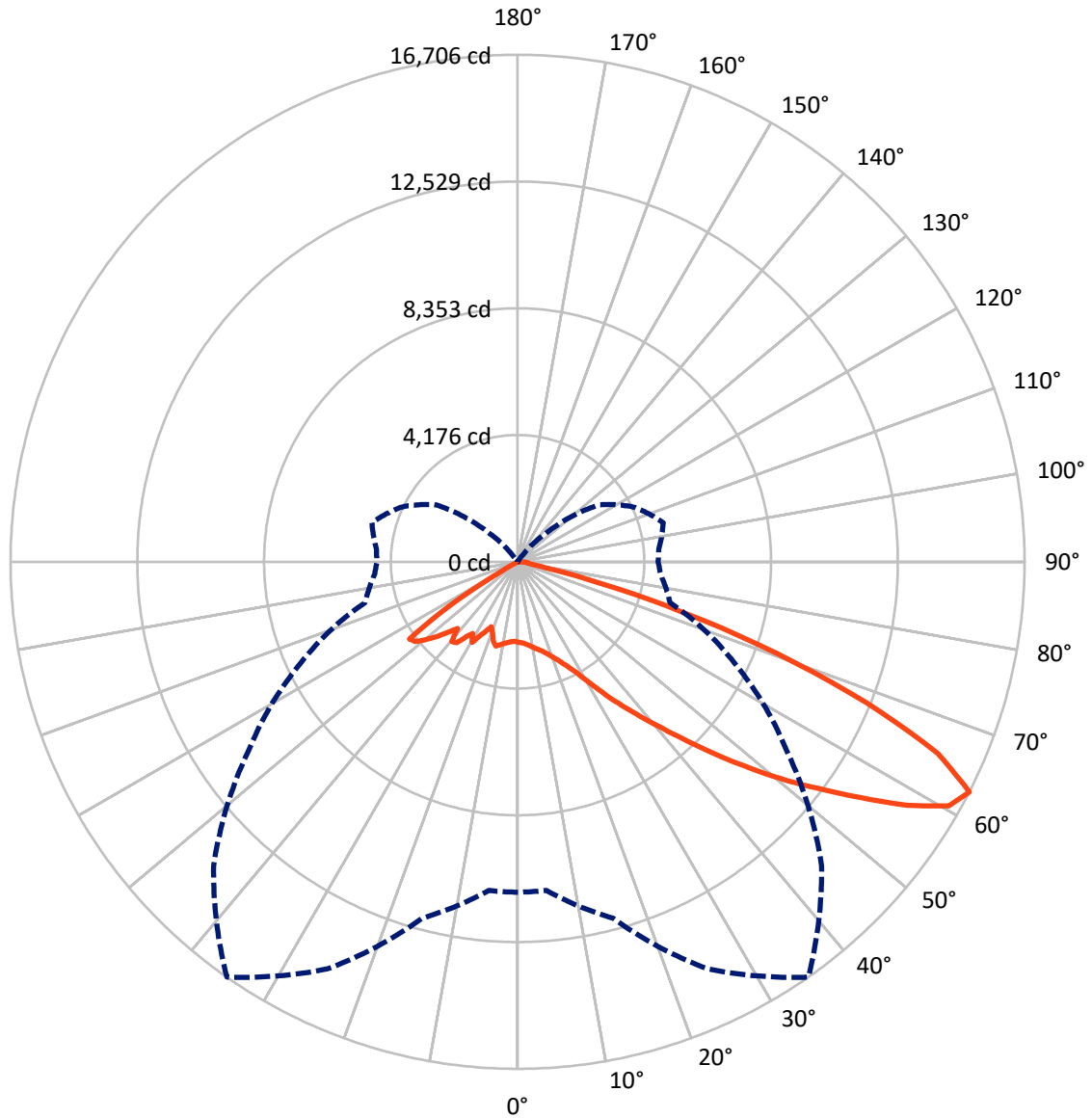
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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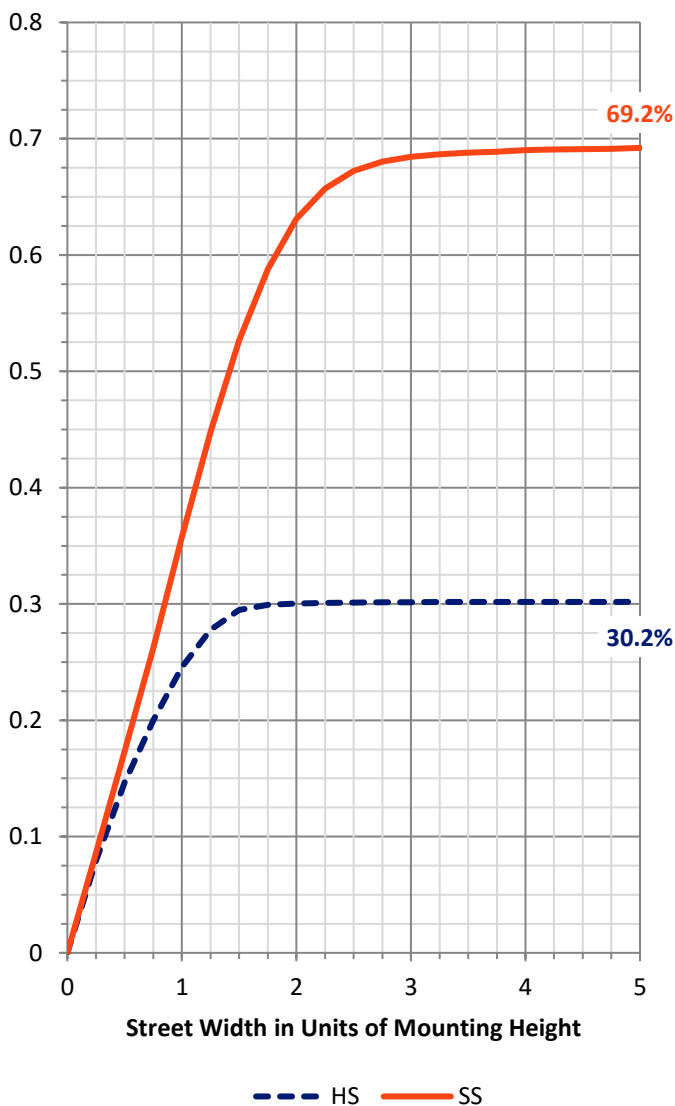
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7151.8	0.0	7151.8
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	16391.8	20.5	16412.2
	% Fixture	69.6	0.1	69.6
Total	Lumens	23543.5	20.5	23564.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.8	1.1
10°-20°	840.3	3.6
20°-30°	1535.8	6.5
30°-40°	2926.8	12.4
40°-50°	5023.6	21.3
50°-60°	6739.3	28.6
60°-70°	5123.2	21.7
70°-80°	970.1	4.1
80°-90°	122.5	0.5
90°-100°	18.0	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°	23543.5	99.9
0°-180°	23564.0	100.0

Coefficient of Utilization

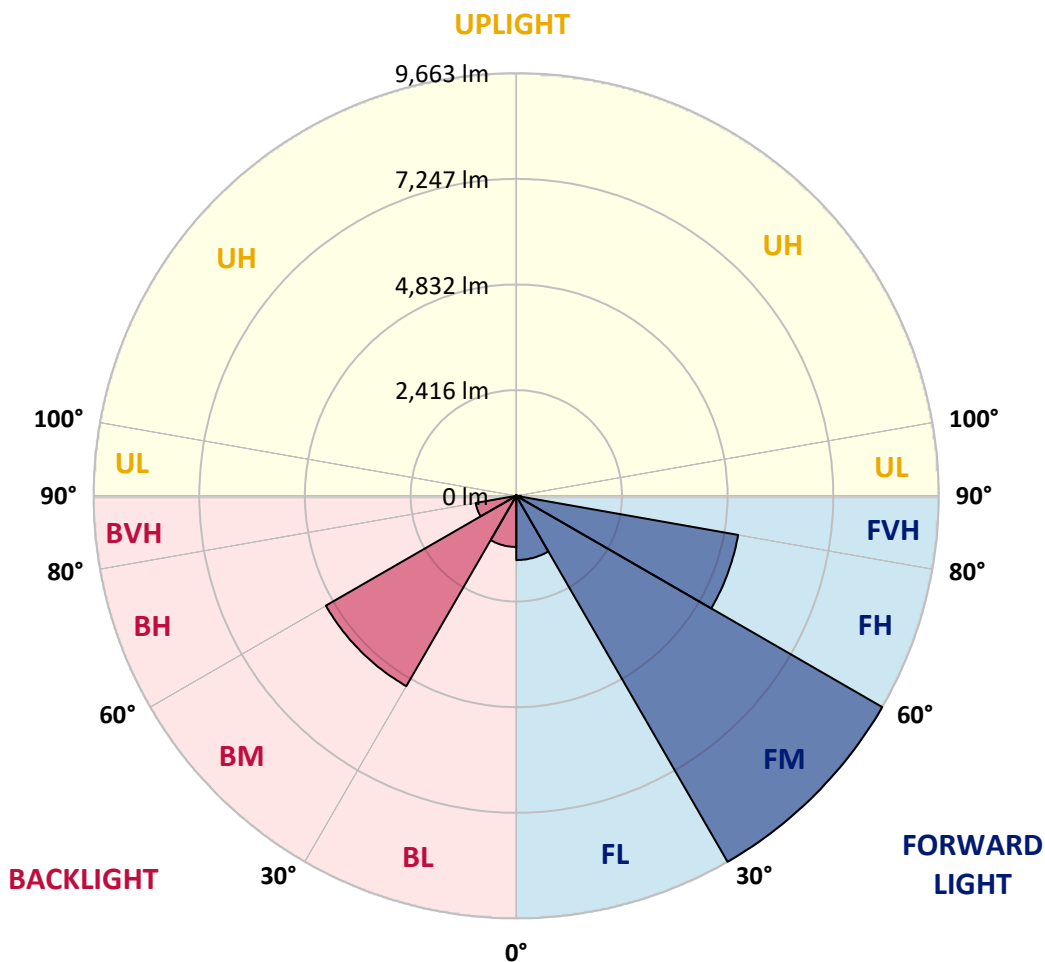


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1468.9	6.2			
FM (30°-60°)	9663.2	41.0			
FH (60°-80°)	5151.5	21.9			G3/7500
FVH (80°-90°)	108.1	0.5			G2/225
BL (0°-30°)	1169.0	5.0	B3/2500		
BM (30°-60°)	5026.6	21.3	B4/8500		
BH (60°-80°)	941.8	4.0	B2/1000		G2/1000
BVH (80°-90°)	14.4	0.1			G1/100
UL (90°-100°)	18.0	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°	2653.6	2653.6	2653.6	2653.6	2653.6	2653.6	2653.6	2653.6	2653.6	2653.6	2653.6
2.5°	2719.1	2699.1	2700.2	2718.0	2666.9	2685.8	2663.6	2685.8	2673.6	2682.5	2686.9
5°	2766.9	2746.9	2744.7	2763.6	2720.2	2733.6	2711.4	2726.9	2710.2	2721.4	2721.4
7.5°	2839.1	2819.1	2812.4	2826.9	2786.9	2796.9	2773.6	2782.4	2763.6	2778.0	2770.2
10°	2924.6	2902.4	2894.6	2902.4	2868.0	2873.5	2845.8	2855.8	2828.0	2844.6	2833.5
12.5°	3015.7	2986.8	2986.8	2993.5	2956.8	2957.9	2932.4	2937.9	2910.2	2928.0	2914.6
15°	3114.6	3082.3	3086.8	3093.5	3054.6	3061.2	3034.6	3043.5	3014.6	3032.4	3019.0
17.5°	3245.6	3211.2	3206.8	3226.7	3190.1	3202.3	3172.3	3183.4	3157.9	3163.4	3156.8
20°	3426.7	3383.4	3373.4	3400.0	3358.9	3367.8	3345.6	3367.8	3341.2	3301.2	3189.0
22.5°	3643.3	3605.5	3588.9	3606.6	3557.8	3573.3	3572.2	3607.7	3534.4	3282.3	3170.1
25°	3928.7	3903.2	3871.0	3873.2	3814.3	3837.7	3879.9	3907.6	3595.5	3374.5	3376.7
27.5°	4309.7	4284.2	4239.8	4223.1	4137.6	4194.2	4259.7	3988.7	3743.2	3799.9	3768.8
30°	4796.2	4791.8	4701.8	4672.9	4579.6	4650.7	4594.1	4129.8	4214.2	4293.1	4245.3
32.5°	5443.8	5412.7	5282.8	5230.5	5132.8	5173.9	4674.1	4607.4	4732.9	4839.6	4789.6
35°	6226.9	6132.5	6000.3	5897.0	5727.1	5498.2	4978.4	5108.4	5296.1	5442.7	5200.6
37.5°	7136.6	7034.4	6827.8	6642.3	6374.6	5661.5	5437.1	5697.1	5932.5	5773.7	5215.0
40°	8073.0	7981.9	7787.5	7548.7	7096.6	6168.0	5993.6	6304.6	6572.3	5662.6	5384.9
42.5°	9002.7	8924.9	8768.3	8532.8	7950.8	6771.2	6603.4	6937.8	6685.6	5879.2	5870.3
45°	9940.2	9901.3	9723.6	9522.5	8962.7	7543.1	7286.6	7547.6	6433.5	6398.0	6376.8
47.5°	10699.9	10706.6	10644.4	10540.0	10042.3	8390.6	8056.3	7282.1	6740.1	6778.9	6788.9
50°	11483.0	11433.0	11429.7	11436.3	11228.6	9482.5	8580.6	7162.2	7141.0	7137.7	7128.8
52.5°	12110.6	12047.3	12178.3	12282.7	12406.0	10701.0	8501.7	7568.7	7447.6	7405.4	7146.6
55°	12621.5	12597.1	12810.3	13163.6	13712.3	11991.7	9199.3	7965.2	7723.1	6736.7	6076.9
57.5°	12931.4	12967.0	13406.8	14101.0	15128.5	13061.4	10011.2	8367.3	6612.3	5933.7	5891.4
60°	12338.3	12526.0	13274.6	14798.6	16325.9	14067.7	10615.5	8448.4	5950.3	5587.1	5502.7
62.5°	10886.5	10868.7	12155.0	14798.6	16705.8	14167.7	10806.5	7874.1	5198.3	4725.2	4630.7
65°	7705.3	7752.0	9126.0	13335.7	15218.5	13178.0	9967.9	6694.5	4146.5	3712.1	3584.4
67.5°	4768.5	4765.1	6110.3	9821.3	12388.3	11033.1	8391.8	5131.7	2878.0	2468.1	2329.3
70°	1647.3	1693.9	2748.0	5747.1	9119.3	8643.9	6280.2	3240.1	1517.3	1081.9	913.0
72.5°	655.3	670.9	986.4	2562.5	5697.1	5774.8	3816.6	1573.9	454.3	288.8	271.0
75°	428.8	431.0	473.2	925.3	2764.7	3106.8	1772.8	452.1	211.0	193.3	188.8
77.5°	369.9	371.0	393.2	468.7	900.8	1208.5	504.3	267.7	176.6	158.8	154.4
80°	343.2	344.3	355.4	403.2	434.3	412.1	268.8	215.5	148.8	141.1	140.0
82.5°	324.3	328.8	334.3	363.2	351.0	309.9	223.3	174.4	114.4	122.2	125.5
85°	298.8	303.2	306.6	323.2	293.2	226.6	173.3	131.1	73.3	80.0	78.9
87.5°	224.4	226.6	222.2	219.9	204.4	158.8	114.4	83.3	28.9	26.7	24.4
90°	107.7	106.6	102.2	94.4	82.2	64.4	47.8	26.7	12.2	5.6	2.2
92.5°	85.5	84.4	82.2	74.4	64.4	47.8	34.4	18.9	11.1	4.4	1.1
95°	57.8	55.5	53.3	47.8	40.0	28.9	20.0	13.3	8.9	3.3	1.1
97.5°	37.8	36.7	33.3	28.9	22.2	15.6	12.2	10.0	7.8	3.3	1.1
100°	23.3	23.3	21.1	16.7	11.1	8.9	7.8	7.8	5.6	2.2	0.0
102.5°	14.4	13.3	12.2	7.8	5.6	5.6	5.6	5.6	4.4	2.2	0.0
105°	7.8	7.8	5.6	4.4	3.3	2.2	3.3	4.4	3.3	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°	2653.6	2653.6	2653.6	2653.6	2653.6	2653.6	2653.6	2653.6	2653.6	2653.6
2.5°	2681.4	2660.3	2665.8	2644.7	2641.4	2619.2	2656.9	2659.1	2649.2	2660.3
5°	2715.8	2690.3	2700.2	2674.7	2670.3	2641.4	2671.4	2668.0	2660.3	2669.1
7.5°	2764.7	2739.1	2744.7	2714.7	2709.1	2676.9	2705.8	2694.7	2684.7	2696.9
10°	2832.4	2803.5	2808.0	2772.4	2768.0	2730.2	2763.6	2746.9	2732.5	2749.1
12.5°	2915.7	2878.0	2873.5	2835.8	2832.4	2796.9	2831.3	2814.7	2800.2	2826.9
15°	3011.3	2961.3	2954.6	2906.8	2901.3	2864.6	2898.0	2873.5	2862.4	2896.9
17.5°	3139.0	2962.4	2863.5	2793.6	2753.6	2733.6	2793.6	2874.6	2850.2	2851.3
20°	3086.8	2896.9	2764.7	2704.7	2661.4	2468.1	2201.5	2278.2	2433.7	2510.3
22.5°	3071.2	3004.6	2950.2	2849.1	2419.2	2310.4	2325.9	2308.2	2014.9	1902.7
25°	3368.9	3292.3	3174.5	2644.7	2520.3	2495.9	2504.8	2198.2	1977.1	2009.4
27.5°	3749.9	3671.0	3090.1	2793.6	2769.1	2736.9	2561.4	2178.2	2208.2	2239.3
30°	4229.8	3815.4	3222.3	3131.2	3085.7	3052.4	2401.5	2432.6	2482.5	2521.4
32.5°	4697.4	3803.2	3601.1	3487.8	3431.1	2784.7	2713.6	2785.8	2836.9	2866.9
35°	4702.9	4238.6	4025.4	3879.9	3520.0	2993.5	3059.0	3180.1	3305.6	3328.9
37.5°	4830.7	4731.8	4487.5	4304.2	2618.1	3341.2	3485.6	3624.4	3749.9	3757.7
40°	5339.4	5232.8	5004.0	4600.8	2891.3	3407.8	3955.4	4112.0	4217.5	4212.0
42.5°	5847.0	5773.7	5536.0	4088.7	3257.8	2952.4	4448.6	4551.9	4618.5	4665.2
45°	6358.0	6284.7	5481.6	4489.7	3694.4	3233.4	4328.6	4914.0	4987.3	5010.6
47.5°	6756.7	6575.7	5022.8	5021.7	4239.8	3593.3	3574.4	5240.5	5305.0	5288.3
50°	7125.5	5870.3	5429.4	5196.1	4804.0	3932.1	3801.0	4409.7	5592.7	5568.2
52.5°	6483.5	5697.1	5778.2	4726.3	5257.2	4268.6	4056.5	3954.3	5081.7	5735.9
55°	5798.1	5909.2	6134.7	5192.8	3814.3	4377.5	4273.1	4069.8	3428.9	2885.7
57.5°	5917.0	6082.5	6093.6	5624.9	3947.6	2734.7	3502.2	3065.7	1937.2	1941.6
60°	5520.5	5735.9	4454.1	3749.9	2122.7	569.8	55.5	48.9	337.7	411.0
62.5°	4667.4	4967.3	4252.0	3266.7	1361.8	21.1	5.6	1.1	0.0	0.0
65°	3614.4	3975.4	3593.3	2819.1	1208.5	6.7	0.0	0.0	0.0	0.0
67.5°	2383.7	2709.1	2730.2	2358.1	1007.5	3.3	0.0	0.0	0.0	0.0
70°	998.6	1406.2	1699.5	1752.8	792.0	1.1	0.0	0.0	0.0	0.0
72.5°	288.8	446.5	817.5	1053.0	503.2	0.0	0.0	0.0	0.0	0.0
75°	192.2	205.5	236.6	474.3	251.0	0.0	0.0	0.0	0.0	0.0
77.5°	158.8	162.2	135.5	130.0	72.2	0.0	0.0	0.0	0.0	0.0
80°	144.4	142.2	108.9	76.6	26.7	0.0	0.0	0.0	0.0	0.0
82.5°	133.3	126.6	78.9	40.0	17.8	0.0	0.0	0.0	0.0	0.0
85°	90.0	88.9	35.5	24.4	3.3	0.0	0.0	0.0	0.0	0.0
87.5°	24.4	31.1	7.8	3.3	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



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 CATALOG NUMBER: CST-CA10-210-760-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)