

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: P579596

Luminaire Tested: **CST-CA6-230-760-U-T5N-HSS-HM-EX180**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579596
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-CA6-230-760-U-T5N-HSS-HM-EX180
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: 23262 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U2 - G3

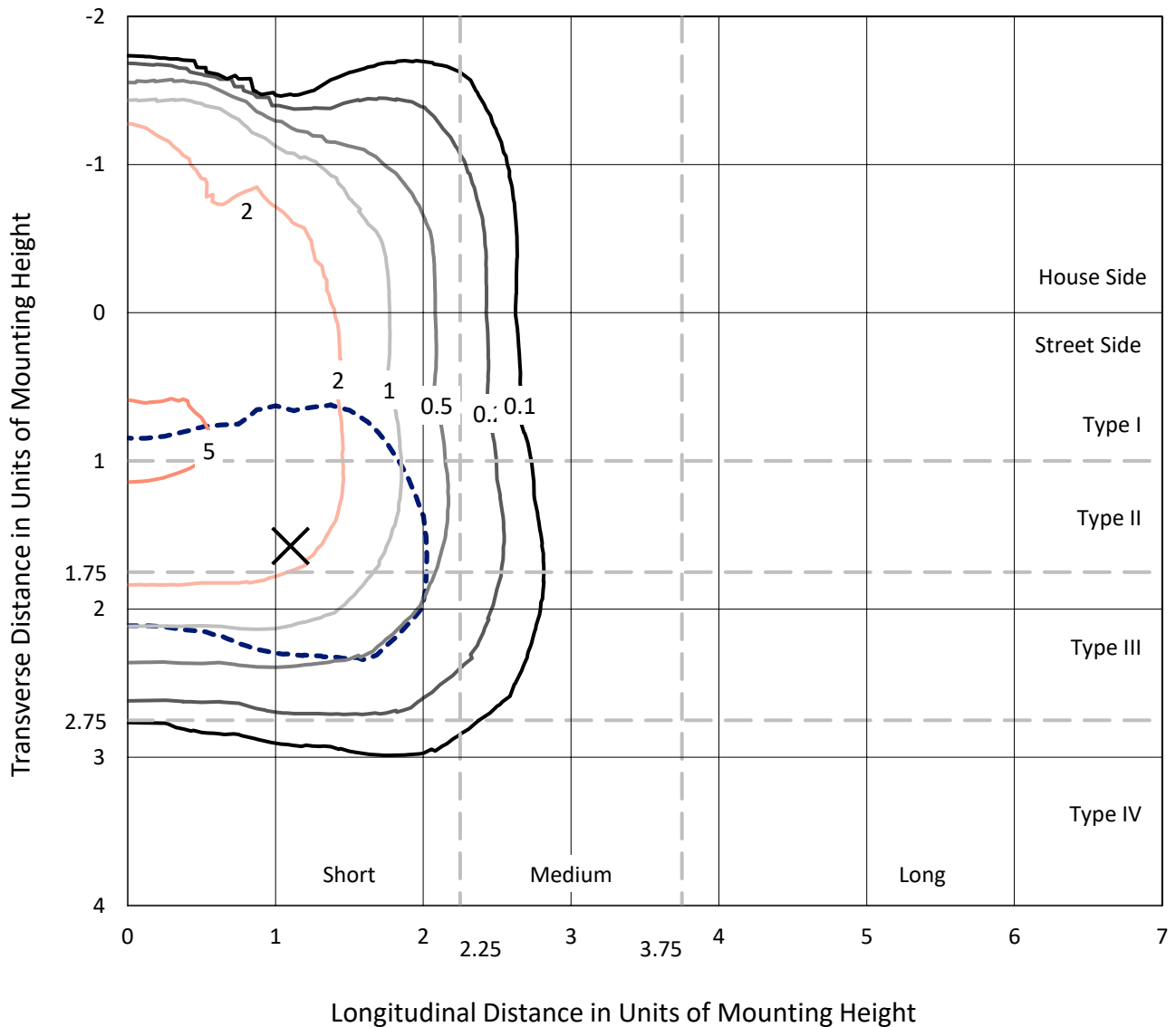
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

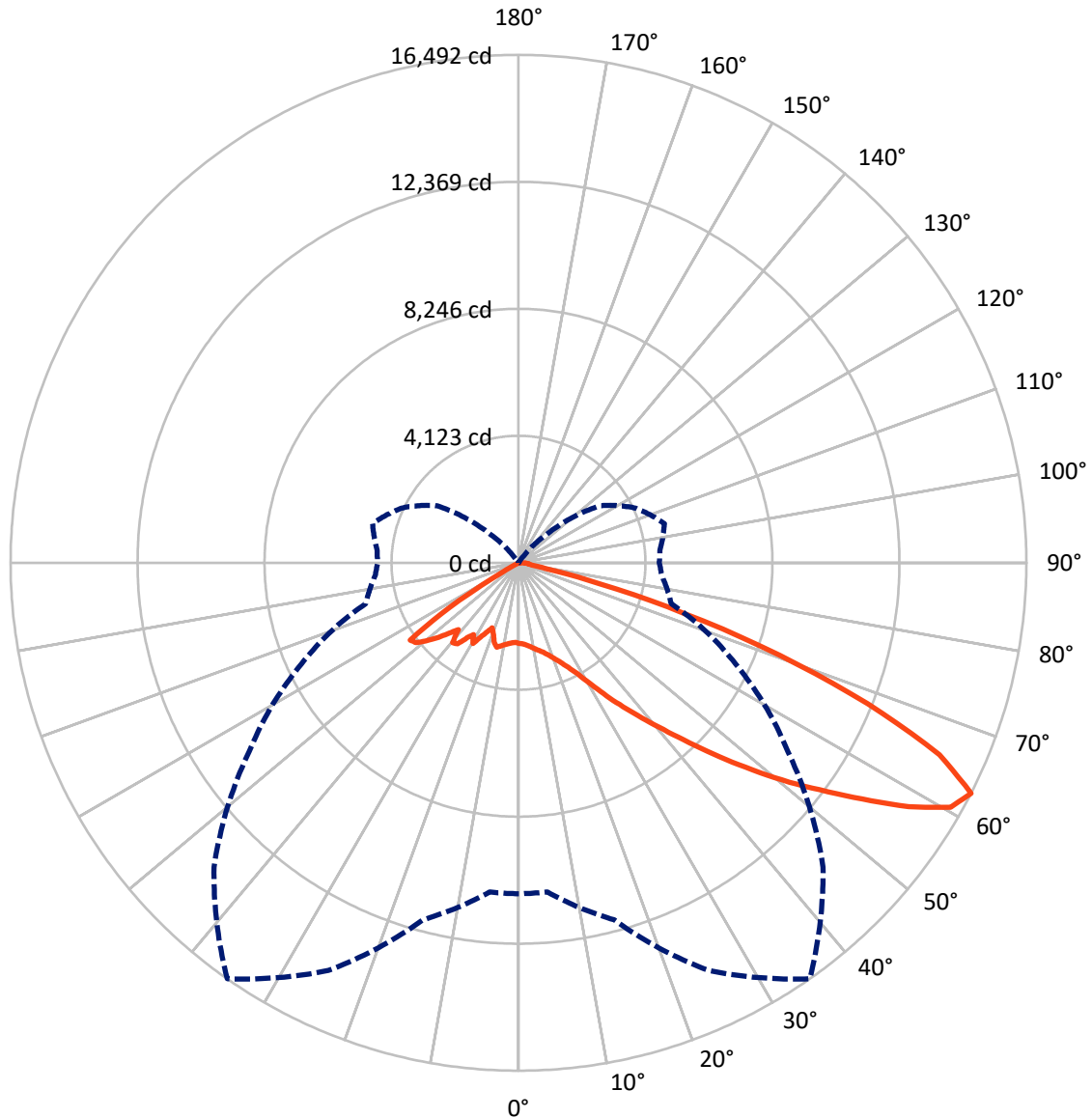
✕ Max cd
 - - - 1/2 Max cd



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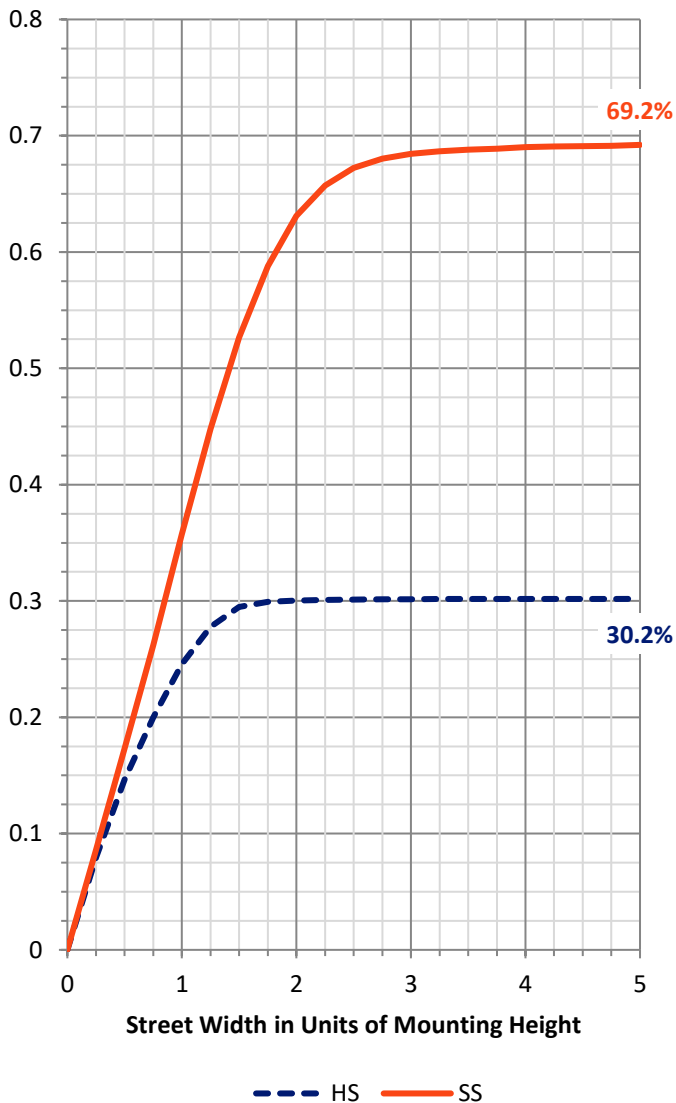
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7060.1	0.0	7060.1
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	16181.7	20.2	16201.9
	% Fixture	69.6	0.1	69.6
Total	Lumens	23241.8	20.2	23262.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.5	1.1
10°-20°	829.5	3.6
20°-30°	1516.2	6.5
30°-40°	2889.3	12.4
40°-50°	4959.3	21.3
50°-60°	6652.9	28.6
60°-70°	5057.6	21.7
70°-80°	957.7	4.1
80°-90°	120.9	0.5
90°-100°	17.8	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°	23241.8	99.9
0°-180°	23262.0	100.0

Coefficient of Utilization



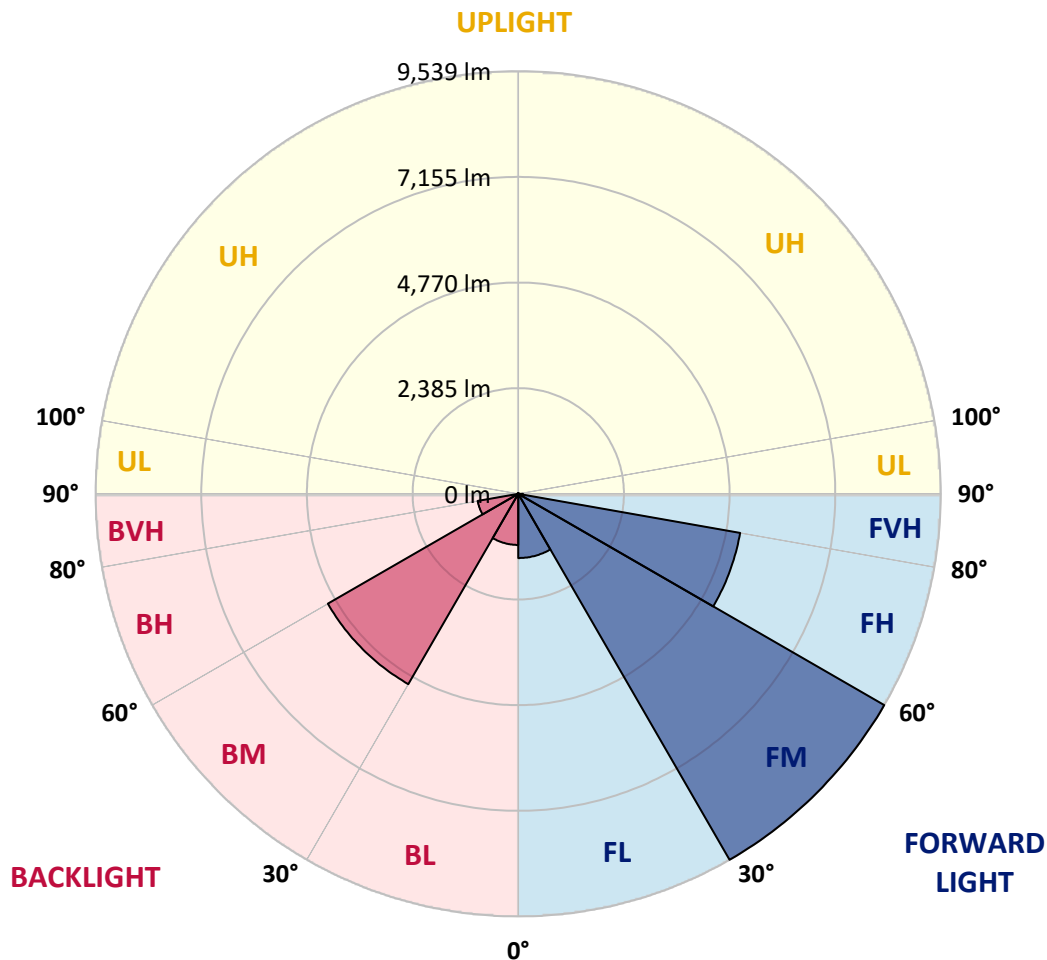
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1450.1	6.2			
FM (30°-60°)	9539.4	41.0			
FH (60°-80°)	5085.5	21.9			G3/7500
FVH (80°-90°)	106.8	0.5			G2/225
BL (0°-30°)	1154.1	5.0	B3/2500		
BM (30°-60°)	4962.1	21.3	B3/5000		
BH (60°-80°)	929.7	4.0	B2/1000		G2/1000
BVH (80°-90°)	14.2	0.1			G1/100
UL (90°-100°)	17.8	0.1		U2/50	
UH (100°-180°)	2.4	0.0		U1/10	

BUG Rating: B3-U2-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2619.6	2619.6	2619.6	2619.6	2619.6	2619.6	2619.6	2619.6	2619.6	2619.6	2619.6
2.5°	2684.3	2664.5	2665.6	2683.2	2632.7	2651.4	2629.5	2651.4	2639.3	2648.1	2652.5
5°	2731.4	2711.7	2709.5	2728.1	2685.4	2698.5	2676.6	2692.0	2675.5	2686.5	2686.5
7.5°	2802.7	2783.0	2776.4	2790.6	2751.2	2761.0	2738.0	2746.8	2728.1	2742.4	2734.7
10°	2887.1	2865.2	2857.5	2865.2	2831.2	2836.7	2809.3	2819.2	2791.7	2808.2	2797.2
12.5°	2977.1	2948.5	2948.5	2955.1	2918.9	2920.0	2894.8	2900.3	2872.9	2890.4	2877.3
15°	3074.6	3042.8	3047.2	3053.8	3015.4	3022.0	2995.7	3004.5	2976.0	2993.5	2980.3
17.5°	3204.0	3170.0	3165.7	3185.4	3149.2	3161.3	3131.7	3142.6	3117.4	3122.9	3116.3
20°	3382.8	3340.0	3330.1	3356.4	3315.9	3324.6	3302.7	3324.6	3298.3	3258.9	3148.1
22.5°	3596.6	3559.3	3542.9	3560.4	3512.2	3527.5	3526.4	3561.5	3489.1	3240.2	3129.5
25°	3878.4	3853.2	3821.4	3823.6	3765.5	3788.5	3830.1	3857.6	3549.4	3331.2	3333.4
27.5°	4254.5	4229.3	4185.4	4169.0	4084.5	4140.5	4205.2	3937.6	3695.3	3751.2	3720.5
30°	4734.8	4730.4	4641.6	4613.1	4521.0	4591.1	4535.2	4076.9	4160.2	4238.1	4190.9
32.5°	5374.0	5343.3	5215.0	5163.5	5067.0	5107.6	4614.2	4548.4	4672.3	4777.5	4728.2
35°	6147.1	6053.9	5923.4	5821.4	5653.7	5427.8	4914.6	5042.9	5228.2	5372.9	5133.9
37.5°	7045.1	6944.3	6740.3	6557.2	6292.9	5589.0	5367.5	5624.1	5856.5	5699.7	5148.2
40°	7969.5	7879.6	7687.7	7452.0	7005.7	6089.0	5916.8	6223.8	6488.1	5590.1	5315.9
42.5°	8887.3	8810.5	8655.9	8423.5	7848.9	6684.4	6518.8	6848.9	6600.0	5803.9	5795.1
45°	9812.8	9774.4	9598.9	9400.5	8847.8	7446.5	7193.2	7450.9	6351.0	6316.0	6295.1
47.5°	10562.8	10569.4	10508.0	10404.9	9913.6	8283.1	7953.1	7188.8	6653.7	6692.1	6701.9
50°	11335.8	11286.5	11283.2	11289.8	11084.7	9361.0	8470.6	7070.4	7049.5	7046.2	7037.5
52.5°	11955.4	11892.9	12022.2	12125.3	12247.0	10563.9	8392.8	7471.7	7352.2	7310.5	7055.0
55°	12459.8	12435.6	12646.2	12994.9	13536.5	11838.0	9081.4	7863.1	7624.1	6650.4	5999.1
57.5°	12765.7	12800.8	13235.0	13920.3	14934.6	12894.0	9882.9	8260.1	6527.6	5857.6	5815.9
60°	12180.1	12365.5	13104.5	14608.9	16116.7	13887.4	10479.4	8340.1	5874.1	5515.5	5432.2
62.5°	10747.0	10729.4	11999.2	14608.9	16491.7	13986.1	10668.0	7773.2	5131.7	4664.6	4571.4
65°	7606.6	7652.6	9009.0	13164.8	15023.4	13009.1	9840.2	6608.7	4093.3	3664.6	3538.5
67.5°	4707.4	4704.1	6032.0	9695.4	12229.5	10891.7	8284.2	5065.9	2841.1	2436.5	2299.4
70°	1626.1	1672.2	2712.8	5673.4	9002.4	8533.1	6199.7	3198.5	1497.8	1068.0	901.3
72.5°	646.9	662.3	973.7	2529.7	5624.1	5700.8	3767.6	1553.8	448.5	285.1	267.6
75°	423.3	425.4	467.1	913.4	2729.2	3067.0	1750.0	446.3	208.3	190.8	186.4
77.5°	365.1	366.2	388.2	462.7	889.3	1193.0	497.8	264.3	174.3	156.8	152.4
80°	338.8	339.9	350.9	398.0	428.7	406.8	265.4	212.7	146.9	139.3	138.2
82.5°	320.2	324.6	330.1	358.6	346.5	305.9	220.4	172.2	112.9	120.6	123.9
85°	295.0	299.3	302.6	319.1	289.5	223.7	171.1	129.4	72.4	78.9	77.9
87.5°	221.5	223.7	219.3	217.1	201.8	156.8	112.9	82.2	28.5	26.3	24.1
90°	106.4	105.3	100.9	93.2	81.1	63.6	47.2	26.3	12.1	5.5	2.2
92.5°	84.4	83.3	81.1	73.5	63.6	47.2	34.0	18.6	11.0	4.4	1.1
95°	57.0	54.8	52.6	47.2	39.5	28.5	19.7	13.2	8.8	3.3	1.1
97.5°	37.3	36.2	32.9	28.5	21.9	15.4	12.1	9.9	7.7	3.3	1.1
100°	23.0	23.0	20.8	16.4	11.0	8.8	7.7	7.7	5.5	2.2	0.0
102.5°	14.3	13.2	12.1	7.7	5.5	5.5	5.5	5.5	4.4	2.2	0.0
105°	7.7	7.7	5.5	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°	2619.6	2619.6	2619.6	2619.6	2619.6	2619.6	2619.6	2619.6	2619.6	2619.6
2.5°	2647.0	2626.2	2631.6	2610.8	2607.5	2585.6	2622.9	2625.1	2615.2	2626.2
5°	2681.0	2655.8	2665.6	2640.4	2636.0	2607.5	2637.1	2633.8	2626.2	2634.9
7.5°	2729.2	2704.0	2709.5	2679.9	2674.4	2642.6	2671.1	2660.2	2650.3	2662.4
10°	2796.1	2767.6	2772.0	2736.9	2732.5	2695.2	2728.1	2711.7	2697.4	2713.9
12.5°	2878.4	2841.1	2836.7	2799.4	2796.1	2761.0	2795.0	2778.6	2764.3	2790.6
15°	2972.7	2923.3	2916.7	2869.6	2864.1	2827.9	2860.8	2836.7	2825.7	2859.7
17.5°	3098.8	2924.4	2826.8	2757.7	2718.3	2698.5	2757.7	2837.8	2813.7	2814.8
20°	3047.2	2859.7	2729.2	2670.0	2627.3	2436.5	2173.3	2249.0	2402.5	2478.1
22.5°	3031.9	2966.1	2912.4	2812.6	2388.2	2280.8	2296.1	2278.6	1989.1	1878.3
25°	3325.7	3250.1	3133.9	2610.8	2488.0	2463.9	2472.7	2170.0	1951.8	1983.6
27.5°	3701.9	3624.0	3050.5	2757.7	2733.6	2701.8	2528.6	2150.3	2179.9	2210.6
30°	4175.5	3766.5	3181.0	3091.1	3046.1	3013.2	2370.7	2401.4	2450.7	2489.1
32.5°	4637.2	3754.5	3554.9	3443.1	3387.2	2749.0	2678.8	2750.1	2800.5	2830.1
35°	4642.7	4184.3	3973.8	3830.1	3474.9	2955.1	3019.8	3139.3	3263.2	3286.3
37.5°	4768.8	4671.2	4429.9	4249.0	2584.5	3298.3	3440.9	3577.9	3701.9	3709.5
40°	5271.0	5165.7	4939.8	4541.8	2854.2	3364.1	3904.7	4059.3	4163.5	4158.0
42.5°	5772.1	5699.7	5465.1	4036.3	3216.1	2914.6	4391.6	4493.5	4559.3	4605.4
45°	6276.5	6204.1	5411.3	4432.1	3647.0	3192.0	4273.1	4851.0	4923.4	4946.4
47.5°	6670.1	6491.4	4958.5	4957.4	4185.4	3547.2	3528.6	5173.4	5237.0	5220.5
50°	7034.2	5795.1	5359.8	5129.5	4742.4	3881.7	3752.3	4353.2	5521.0	5496.9
52.5°	6400.4	5624.1	5704.1	4665.7	5189.8	4213.9	4004.5	3903.6	5016.6	5662.4
55°	5723.8	5833.5	6056.1	5126.2	3765.5	4321.4	4218.3	4017.6	3385.0	2848.8
57.5°	5841.2	6004.5	6015.5	5552.8	3897.0	2699.6	3457.3	3026.4	1912.3	1916.7
60°	5449.7	5662.4	4397.0	3701.9	2095.4	562.5	54.8	48.2	333.3	405.7
62.5°	4607.6	4903.6	4197.5	3224.9	1344.3	20.8	5.5	1.1	0.0	0.0
65°	3568.1	3924.4	3547.2	2783.0	1193.0	6.6	0.0	0.0	0.0	0.0
67.5°	2353.1	2674.4	2695.2	2327.9	994.5	3.3	0.0	0.0	0.0	0.0
70°	985.8	1388.2	1677.7	1730.3	781.8	1.1	0.0	0.0	0.0	0.0
72.5°	285.1	440.8	807.0	1039.5	496.7	0.0	0.0	0.0	0.0	0.0
75°	189.7	202.9	233.6	468.2	247.8	0.0	0.0	0.0	0.0	0.0
77.5°	156.8	160.1	133.8	128.3	71.3	0.0	0.0	0.0	0.0	0.0
80°	142.5	140.4	107.5	75.7	26.3	0.0	0.0	0.0	0.0	0.0
82.5°	131.6	125.0	77.9	39.5	17.5	0.0	0.0	0.0	0.0	0.0
85°	88.8	87.7	35.1	24.1	3.3	0.0	0.0	0.0	0.0	0.0
87.5°	24.1	30.7	7.7	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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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)