

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: P579523

Luminaire Tested: **CST-CA10-210-750-U-T5N-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-5)
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-EX120
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: 27918 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U2 - G3

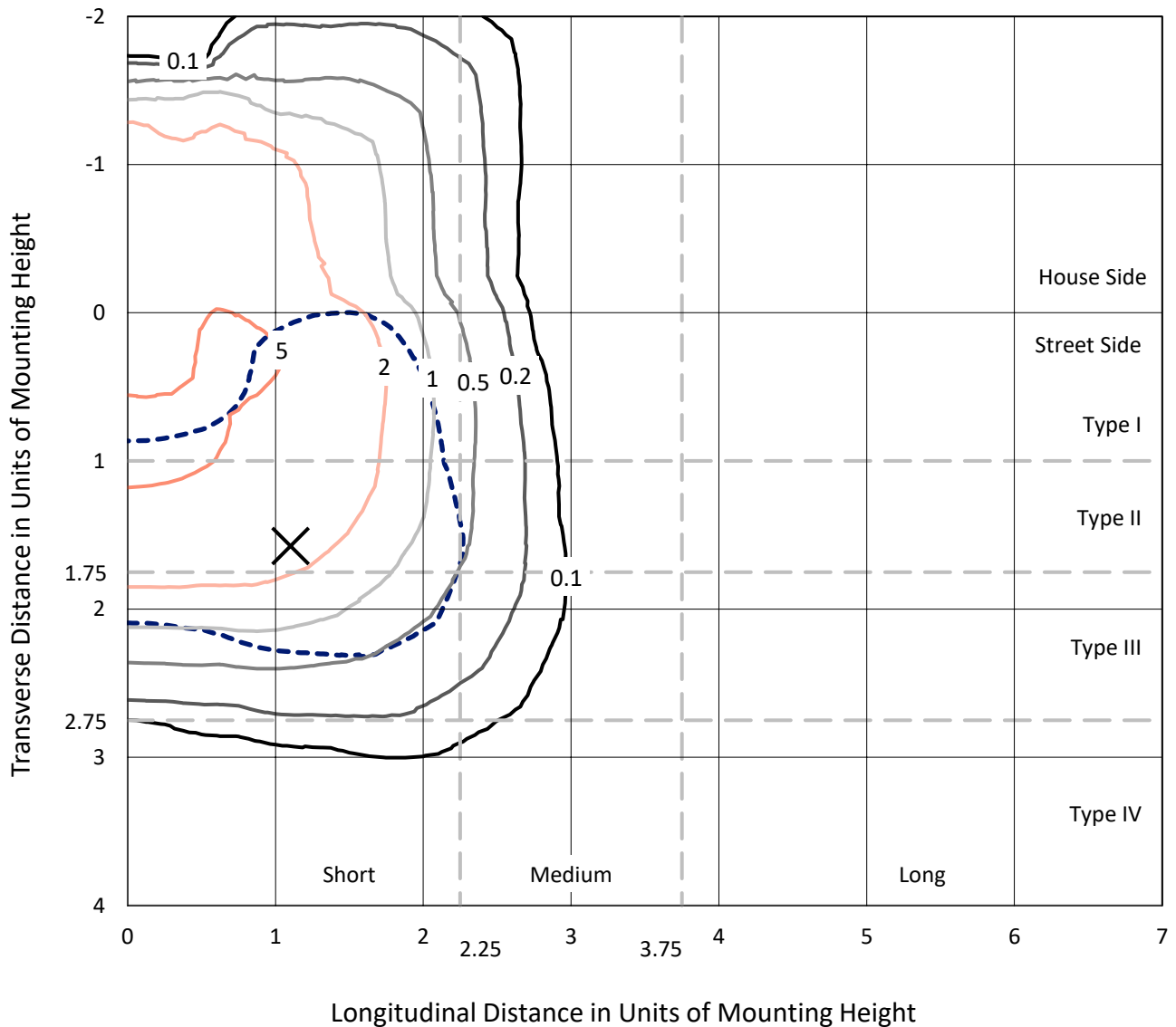
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

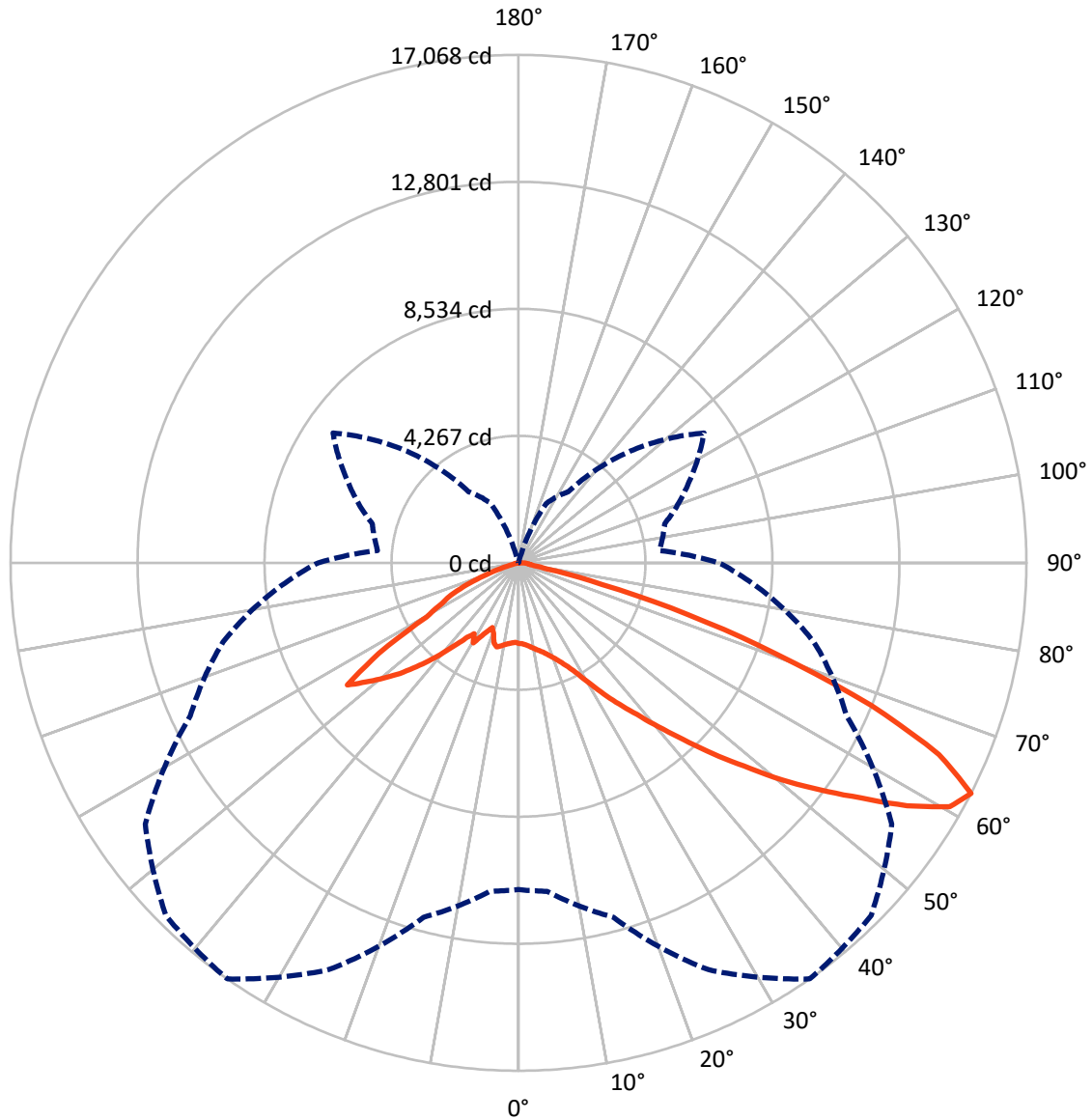
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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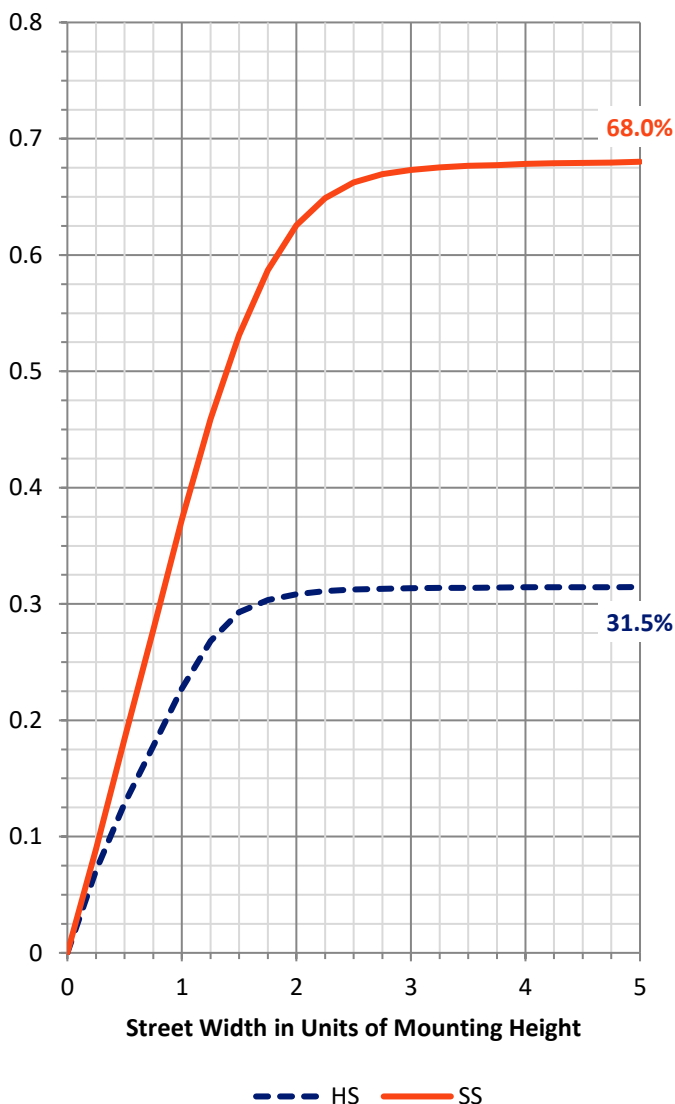
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8832.1	0.0	8832.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	19070.0	15.9	19085.9
	% Fixture	68.3	0.1	68.4
Total	Lumens	27902.0	15.9	27918.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.2	1.0
10°-20°	859.2	3.1
20°-30°	1595.4	5.7
30°-40°	3145.4	11.3
40°-50°	5646.4	20.2
50°-60°	8207.6	29.4
60°-70°	6745.3	24.2
70°-80°	1282.2	4.6
80°-90°	153.5	0.5
90°-100°	14.5	0.1
100°-110°	1.4	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°	27902.0	99.9
0°-180°	27918.0	100.0

Coefficient of Utilization



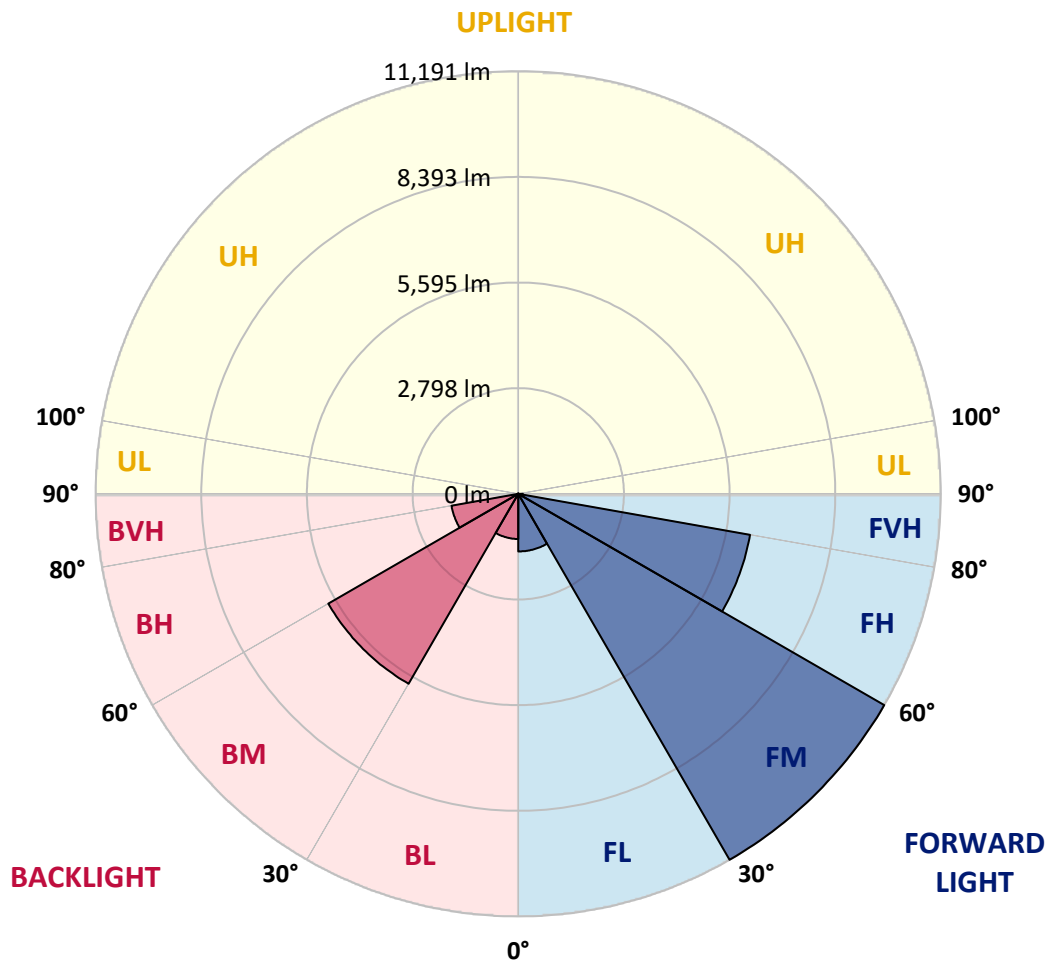
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1525.9	5.5			
FM	(30°-60°)	11190.8	40.1			
FH	(60°-80°)	6231.9	22.3			G3/7500
FVH	(80°-90°)	121.4	0.4			G2/225
BL	(0°-30°)	1195.9	4.3	B3/2500		
BM	(30°-60°)	5808.5	20.8	B4/8500		
BH	(60°-80°)	1795.5	6.4	B3/2500		G3/2500
BVH	(80°-90°)	32.1	0.1			G1/100
UL	(90°-100°)	14.5	0.1		U2/50	
UH	(100°-180°)	1.4	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°	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9
2.5°	2779.1	2756.4	2758.7	2775.7	2724.6	2741.6	2717.8	2738.2	2729.2	2738.2	2743.9
5°	2834.7	2806.3	2805.2	2822.2	2781.4	2791.6	2764.3	2778.0	2765.5	2776.8	2776.8
7.5°	2902.8	2879.0	2873.3	2886.9	2850.6	2855.1	2827.9	2833.6	2818.8	2833.6	2822.2
10°	2987.9	2966.3	2957.3	2964.1	2931.2	2933.4	2903.9	2906.2	2884.6	2897.1	2888.0
12.5°	3077.5	3048.0	3043.5	3054.8	3020.8	3016.3	2991.3	2993.6	2969.7	2981.1	2974.3
15°	3170.6	3140.0	3141.1	3152.4	3118.4	3120.7	3094.6	3099.1	3075.3	3086.6	3077.5
17.5°	3294.3	3263.6	3261.4	3281.8	3253.4	3262.5	3235.3	3241.0	3223.9	3226.2	3216.0
20°	3471.3	3431.6	3423.7	3453.2	3415.7	3427.1	3412.3	3431.6	3424.8	3419.1	3411.2
22.5°	3682.4	3651.7	3635.9	3658.6	3614.3	3635.9	3643.8	3683.5	3693.7	3686.9	3562.1
25°	3964.9	3949.1	3933.2	3923.0	3869.6	3903.7	3944.5	4010.3	4053.5	4070.5	3896.9
27.5°	4346.2	4354.2	4285.0	4273.6	4213.5	4266.8	4340.6	4447.2	4534.6	4566.4	4332.6
30°	4836.5	4846.7	4752.5	4725.3	4688.9	4734.3	4871.6	4988.5	5117.9	5171.2	4859.2
32.5°	5487.8	5478.8	5340.3	5288.1	5255.2	5273.4	5417.5	5577.5	5722.7	5843.0	5459.5
35°	6283.3	6255.0	6107.4	5963.3	5832.8	5888.4	5993.9	6188.0	6408.1	6585.2	6051.8
37.5°	7207.0	7179.8	6955.1	6720.2	6462.6	6486.4	6580.6	6897.2	7180.9	7227.5	5950.8
40°	8161.4	8150.0	7937.8	7639.4	7238.8	7126.5	7251.3	7637.1	7936.7	7125.3	6185.7
42.5°	9114.6	9060.1	8941.0	8642.5	8109.2	7861.8	8029.8	8415.6	8737.9	7470.3	6730.4
45°	10075.8	10020.2	9919.2	9700.2	9145.3	8785.5	8834.3	9262.1	9553.8	8117.1	7297.8
47.5°	10929.1	10888.3	10815.7	10693.1	10198.3	9872.7	9778.5	10078.1	10276.6	8642.5	7733.6
50°	11664.5	11629.3	11657.7	11616.8	11471.6	11130.0	10819.1	10799.8	10895.1	9110.1	8134.2
52.5°	12311.3	12263.7	12385.1	12529.2	12663.1	12587.1	11834.7	11484.1	11397.8	9460.7	8403.1
55°	12845.8	12828.8	13037.6	13426.8	13936.3	14136.1	12920.7	12116.1	11847.2	9758.0	8428.1
57.5°	13165.8	13206.7	13648.1	14401.6	15397.9	15492.1	14191.7	12787.9	12243.2	9938.5	8547.2
60°	12618.8	12757.3	13551.6	15132.4	16641.7	16682.5	15105.2	12921.8	11724.6	9289.4	7910.6
62.5°	10980.2	11080.1	12329.5	15085.9	17068.3	16757.4	15309.4	12166.1	10275.5	7880.0	6728.2
65°	7758.5	7874.3	9380.2	13603.8	15528.4	15539.8	14023.7	10520.6	8213.6	6100.6	5195.1
67.5°	4679.9	4867.1	6293.5	9876.1	12785.7	13018.3	11699.7	7965.1	5878.2	3983.1	3362.4
70°	1535.4	1706.7	2873.3	5845.3	9216.7	10213.1	8786.7	5175.8	3069.6	1684.0	1356.1
72.5°	608.2	686.5	1012.2	2585.0	5939.5	6818.9	5414.1	2501.1	1030.4	447.1	389.2
75°	406.3	414.2	467.5	880.6	2906.2	3728.9	2610.0	727.4	382.4	279.2	245.1
77.5°	354.1	355.2	379.0	464.1	946.4	1429.8	751.2	390.4	316.6	229.2	203.1
80°	324.5	329.1	343.8	396.0	433.5	485.7	371.1	325.7	274.6	211.1	191.8
82.5°	310.9	314.3	323.4	358.6	350.6	364.3	299.6	258.7	231.5	194.0	183.8
85°	283.7	289.4	295.0	316.6	288.2	249.7	231.5	173.6	165.7	146.4	135.0
87.5°	214.5	213.3	207.7	211.1	192.9	157.7	130.5	97.6	79.4	65.8	54.5
90°	89.6	90.8	87.4	82.8	72.6	60.1	45.4	27.2	13.6	4.5	2.3
92.5°	68.1	69.2	67.0	60.1	52.2	42.0	30.6	15.9	9.1	3.4	1.1
95°	42.0	43.1	40.9	36.3	31.8	23.8	15.9	10.2	5.7	2.3	0.0
97.5°	25.0	26.1	23.8	21.6	17.0	11.3	9.1	6.8	4.5	2.3	0.0
100°	14.8	14.8	13.6	11.3	7.9	6.8	5.7	4.5	3.4	1.1	0.0
102.5°	6.8	6.8	6.8	4.5	3.4	3.4	3.4	3.4	3.4	1.1	0.0
105°	2.3	2.3	1.1	1.1	1.1	2.3	2.3	2.3	2.3	1.1	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.3	2.3	1.1	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	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°	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9
2.5°	2738.2	2716.7	2720.1	2700.8	2696.3	2675.8	2712.1	2715.5	2705.3	2715.5
5°	2772.3	2746.2	2753.0	2731.4	2725.8	2697.4	2726.9	2724.6	2716.7	2726.9
7.5°	2822.2	2792.7	2796.1	2771.2	2765.5	2733.7	2760.9	2753.0	2743.9	2756.4
10°	2885.8	2857.4	2858.5	2824.5	2821.1	2784.8	2819.9	2805.2	2791.6	2809.7
12.5°	2974.3	2934.6	2931.2	2893.7	2892.6	2855.1	2891.4	2879.0	2860.8	2889.2
15°	3076.4	3023.1	3009.5	2961.8	2960.7	2920.9	2957.3	2938.0	2928.9	2962.9
17.5°	3209.2	3142.2	3039.0	2876.7	2802.9	2815.4	2943.6	2990.2	2868.7	2886.9
20°	3289.7	2965.2	2814.3	2747.3	2712.1	2510.2	2236.7	2259.4	2528.3	2656.5
22.5°	3153.6	3057.1	3001.5	2907.3	2417.1	2347.9	2363.8	2359.2	2012.0	1908.7
25°	3437.3	3346.5	3245.5	2664.5	2563.5	2534.0	2541.9	2216.2	2026.7	2034.7
27.5°	3845.8	3728.9	3088.9	2837.0	2816.5	2773.4	2616.8	2225.3	2249.1	2265.0
30°	4362.1	3946.8	3289.7	3179.7	3138.8	3092.3	2428.4	2486.3	2530.6	2579.4
32.5°	4861.4	3839.0	3674.4	3559.8	3496.3	2807.5	2739.4	2846.0	2890.3	2932.3
35°	4816.0	4300.8	4087.5	3942.3	3823.1	3029.9	3090.0	3252.3	3369.2	3368.1
37.5°	4940.9	4803.6	4557.3	4373.5	3318.1	3394.2	3520.1	3705.1	3846.9	3845.8
40°	5461.7	5313.1	5081.6	4686.7	3676.7	3853.7	4026.2	4199.8	4302.0	4309.9
42.5°	5979.2	5864.6	5655.8	4139.7	4115.9	4361.0	4541.4	4651.5	4713.9	4735.5
45°	6494.4	6386.6	5557.1	4578.9	4651.5	4894.3	5004.4	5026.0	5092.9	5090.7
47.5°	6904.0	6812.1	5112.2	5100.9	5281.3	5449.3	5414.1	5386.8	5403.9	5412.9
50°	7281.9	5930.4	5511.7	5677.3	5952.0	5972.4	5826.0	4615.2	5713.7	5694.4
52.5°	6764.5	5787.4	5883.9	6272.0	6739.5	6502.3	6216.4	4045.5	5358.5	5868.0
55°	5919.1	6016.6	6234.5	6885.9	7347.8	7066.3	6588.6	4165.8	3556.4	2894.8
57.5°	6037.1	6191.4	6605.6	7505.5	7908.3	5596.8	6149.4	2936.8	1988.1	1987.0
60°	5621.7	5855.5	6597.7	7783.5	6401.3	3585.9	2463.6	67.0	385.8	382.4
62.5°	4752.5	5085.0	6294.7	7607.6	5302.9	2914.1	2194.7	5.7	2.3	2.3
65°	3675.6	4067.1	5248.4	6587.4	4698.0	2510.2	1629.6	0.0	0.0	0.0
67.5°	2410.3	2773.4	3941.1	5471.9	3900.3	1897.4	1095.1	0.0	0.0	0.0
70°	1004.3	1452.5	2448.9	3954.7	2868.7	1242.6	519.7	0.0	0.0	0.0
72.5°	290.5	442.6	1103.0	2361.5	1780.5	650.2	192.9	0.0	0.0	0.0
75°	191.8	202.0	333.6	949.8	865.8	238.3	78.3	0.0	0.0	0.0
77.5°	161.1	165.7	212.2	265.5	278.0	94.2	63.5	0.0	0.0	0.0
80°	148.7	149.8	190.6	197.5	148.7	78.3	62.4	0.0	0.0	0.0
82.5°	138.4	135.0	162.3	156.6	123.7	68.1	57.9	0.0	0.0	0.0
85°	95.3	97.6	110.1	139.6	74.9	34.0	40.9	0.0	0.0	0.0
87.5°	29.5	34.0	43.1	44.3	13.6	4.5	0.0	0.0	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



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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)