

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: McGRAW-EDISON

Report Number: P579427

Luminaire Tested: **CTN-CA10-210-730-U-T5N-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579427
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: McGRAW-EDISON
Catalog Number: CTN-CA10-210-730-U-T5N-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26919 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U2 - G3

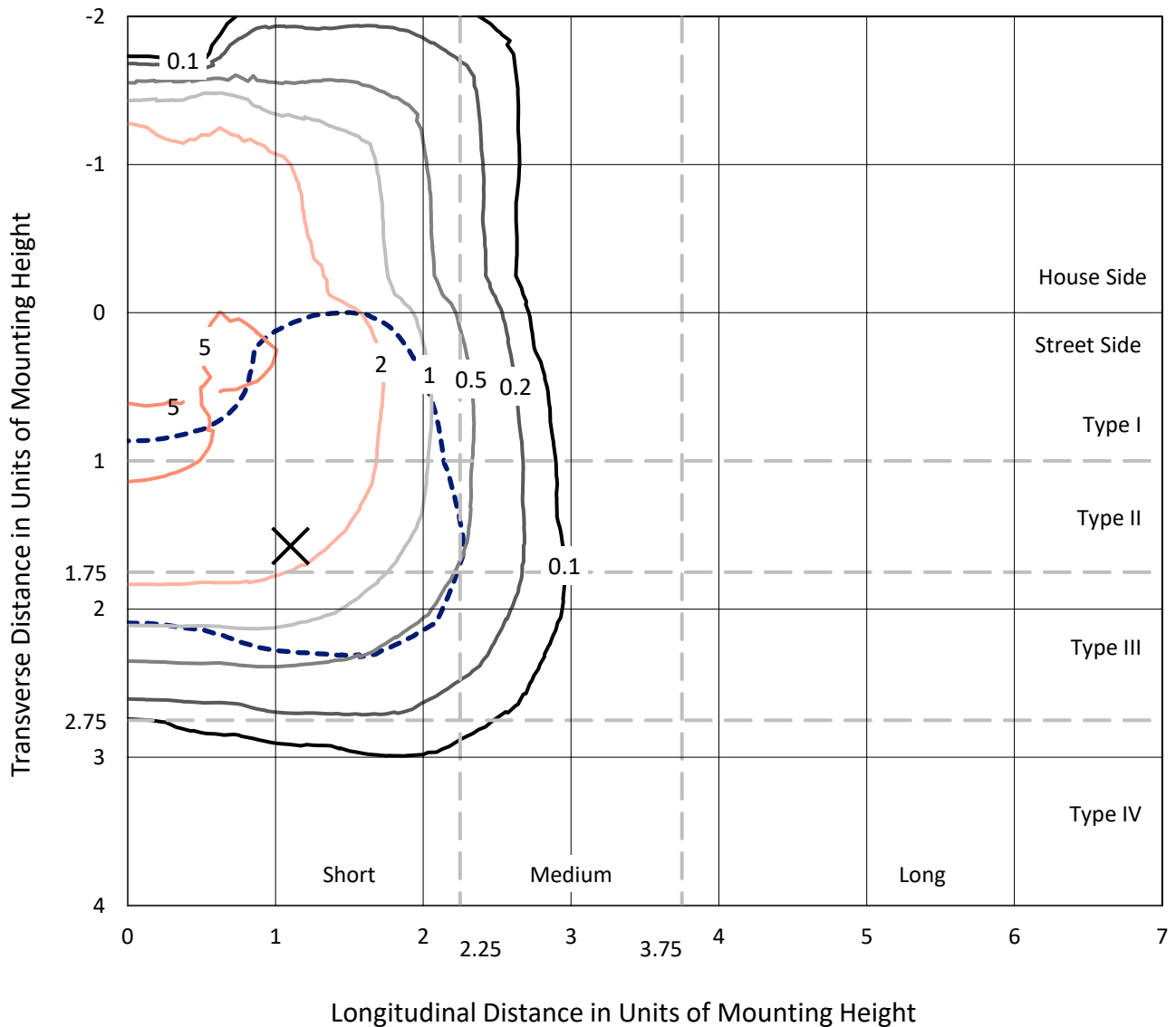
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

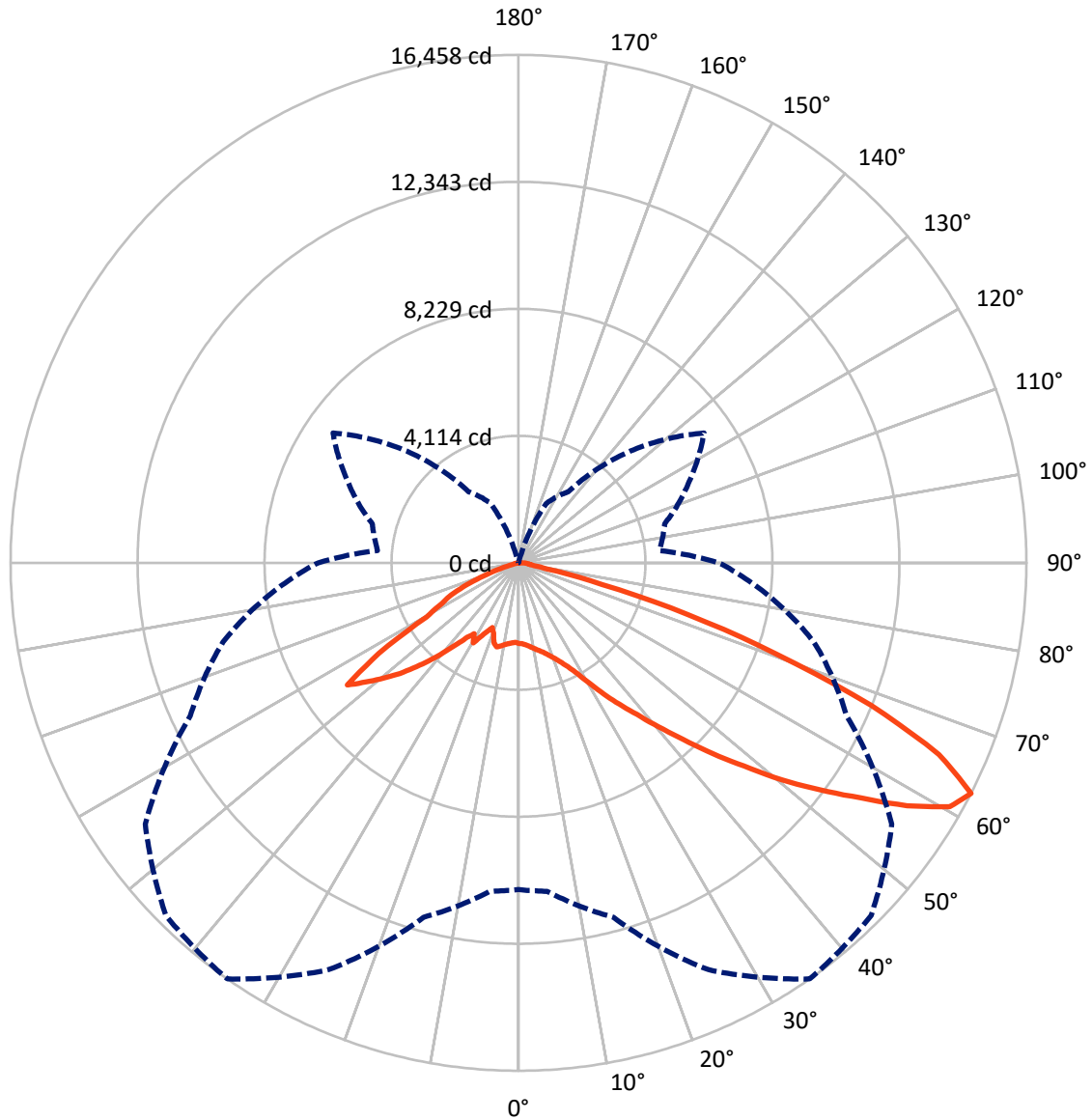
✕ Max cd
 - - - 1/2 Max cd



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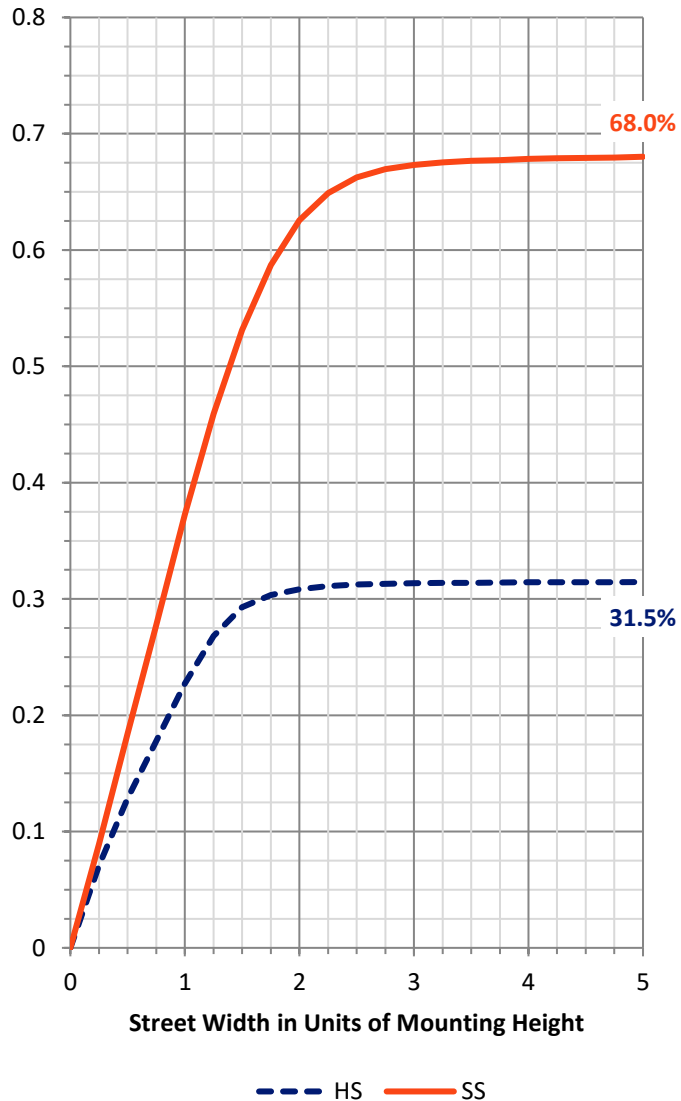
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8516.0	0.0	8516.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	18387.6	15.4	18403.0
	% Fixture	68.3	0.1	68.4
Total	Lumens	26903.6	15.4	26919.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.7	1.0
10°-20°	828.4	3.1
20°-30°	1538.3	5.7
30°-40°	3032.8	11.3
40°-50°	5444.3	20.2
50°-60°	7913.9	29.4
60°-70°	6503.9	24.2
70°-80°	1236.3	4.6
80°-90°	148.0	0.5
90°-100°	14.0	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°	26903.6	99.9
0°-180°	26919.0	100.0

Coefficient of Utilization

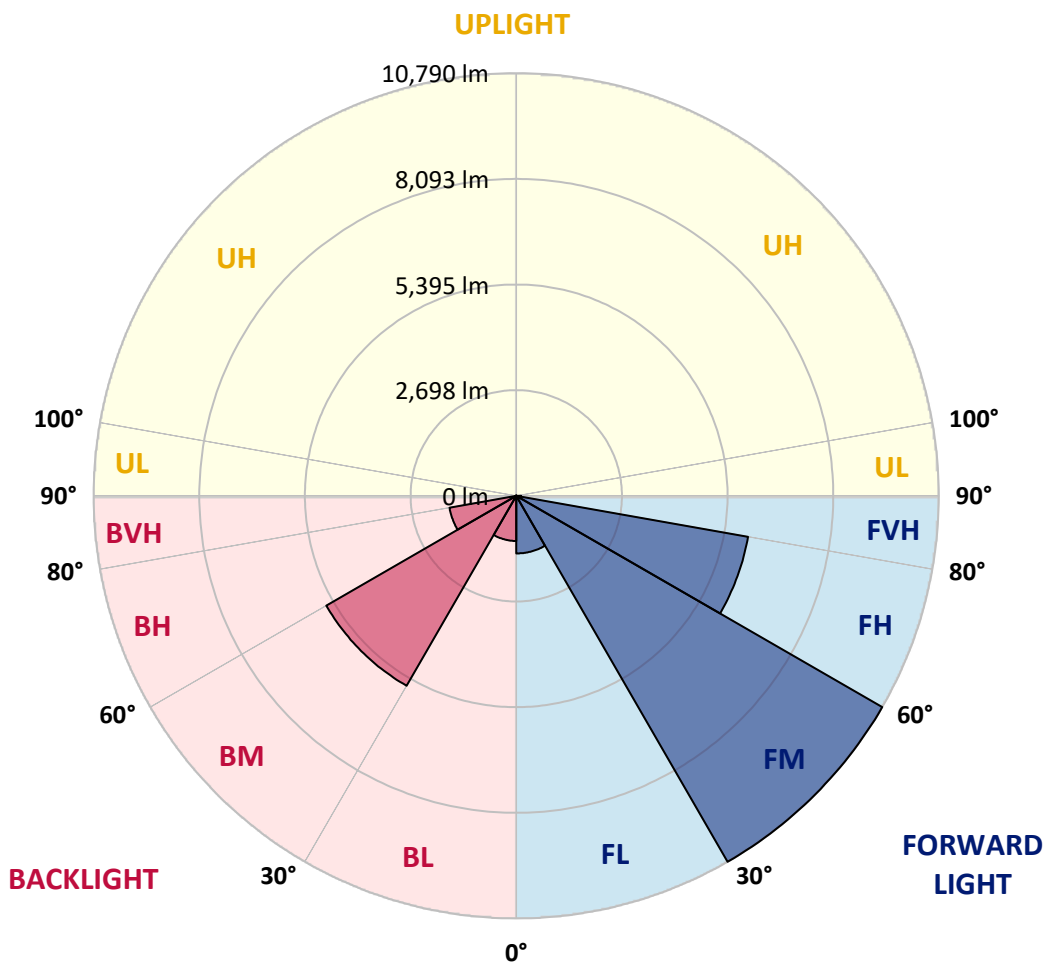


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1471.3	5.5			
FM (30°-60°)	10790.4	40.1			
FH (60°-80°)	6008.9	22.3			G3/7500
FVH (80°-90°)	117.0	0.4			G2/225
BL (0°-30°)	1153.1	4.3	B3/2500		
BM (30°-60°)	5600.7	20.8	B4/8500		
BH (60°-80°)	1731.3	6.4	B3/2500		G3/2500
BVH (80°-90°)	31.0	0.1			G1/100
UL (90°-100°)	14.0	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°	2612.9	2612.9	2612.9	2612.9	2612.9	2612.9	2612.9	2612.9	2612.9	2612.9	2612.9
2.5°	2679.6	2657.8	2660.0	2676.4	2627.1	2643.5	2620.6	2640.3	2631.5	2640.3	2645.7
5°	2733.3	2705.9	2704.8	2721.2	2681.8	2691.7	2665.4	2678.6	2666.5	2677.5	2677.5
7.5°	2798.9	2775.9	2770.5	2783.6	2748.6	2753.0	2726.7	2732.2	2717.9	2732.2	2721.2
10°	2881.0	2860.2	2851.4	2858.0	2826.3	2828.5	2800.0	2802.2	2781.4	2793.4	2784.7
12.5°	2967.4	2939.0	2934.6	2945.5	2912.7	2908.3	2884.3	2886.5	2863.5	2874.4	2867.8
15°	3057.1	3027.6	3028.7	3039.6	3006.8	3009.0	2983.8	2988.2	2965.2	2976.2	2967.4
17.5°	3176.4	3146.9	3144.7	3164.4	3137.0	3145.8	3119.5	3125.0	3108.6	3110.8	3100.9
20°	3347.1	3308.8	3301.1	3329.6	3293.5	3304.4	3290.2	3308.8	3302.2	3296.8	3289.1
22.5°	3550.6	3521.1	3505.8	3527.6	3485.0	3505.8	3513.4	3551.7	3561.6	3555.0	3434.6
25°	3823.1	3807.8	3792.4	3782.6	3731.2	3764.0	3803.4	3866.8	3908.4	3924.8	3757.4
27.5°	4190.7	4198.4	4131.6	4120.7	4062.7	4114.1	4185.2	4288.1	4372.3	4403.0	4177.6
30°	4663.4	4673.2	4582.4	4556.2	4521.2	4564.9	4697.3	4810.0	4934.8	4986.2	4685.3
32.5°	5291.5	5282.7	5149.2	5098.9	5067.2	5084.7	5223.6	5377.9	5518.0	5633.9	5264.1
35°	6058.5	6031.1	5888.9	5749.9	5624.1	5677.7	5779.5	5966.6	6178.8	6349.5	5835.3
37.5°	6949.1	6922.9	6706.2	6479.7	6231.4	6254.3	6345.2	6650.4	6924.0	6968.8	5737.9
40°	7869.4	7858.4	7653.8	7366.0	6979.8	6871.5	6991.8	7363.8	7652.7	6870.4	5964.4
42.5°	8788.5	8735.9	8621.1	8333.3	7819.0	7580.5	7742.4	8114.4	8425.2	7203.0	6489.6
45°	9715.2	9661.6	9564.2	9353.1	8818.0	8471.2	8518.2	8930.7	9211.9	7826.7	7036.7
47.5°	10538.1	10498.7	10428.6	10310.5	9833.4	9519.4	9428.6	9717.4	9908.9	8333.3	7456.8
50°	11247.1	11213.2	11240.5	11201.1	11061.1	10731.7	10431.9	10413.3	10505.2	8784.1	7843.1
52.5°	11870.8	11824.8	11941.9	12080.9	12210.0	12136.7	11411.2	11073.1	10990.0	9122.2	8102.4
55°	12386.1	12369.7	12571.0	12946.4	13437.6	13630.2	12458.3	11682.6	11423.3	9408.9	8126.5
57.5°	12694.7	12734.1	13159.7	13886.3	14846.9	14937.8	13683.8	12330.3	11805.1	9582.8	8241.4
60°	12167.3	12300.8	13066.7	14590.9	16046.2	16085.6	14564.6	12459.4	11305.1	8957.0	7627.5
62.5°	10587.3	10683.6	11888.3	14546.0	16457.6	16157.8	14761.6	11730.7	9907.8	7598.0	6487.4
65°	7480.9	7592.5	9044.5	13117.0	14972.8	14983.7	13521.9	10144.2	7919.7	5882.3	5009.2
67.5°	4512.4	4692.9	6068.3	9522.7	12328.1	12552.4	11281.0	7680.1	5667.9	3840.6	3242.1
70°	1480.4	1645.6	2770.5	5636.1	8886.9	9847.6	8472.2	4990.6	2959.8	1623.8	1307.5
72.5°	586.5	662.0	976.0	2492.5	5726.9	6574.9	5220.3	2411.6	993.5	431.1	375.3
75°	391.7	399.4	450.8	849.1	2802.2	3595.5	2516.6	701.4	368.7	269.2	236.3
77.5°	341.4	342.5	365.5	447.5	912.5	1378.7	724.3	376.4	305.3	221.0	195.9
80°	312.9	317.3	331.5	381.9	418.0	468.3	357.8	314.0	264.8	203.5	184.9
82.5°	299.8	303.1	311.8	345.8	338.1	351.2	288.9	249.5	223.2	187.1	177.3
85°	273.5	279.0	284.5	305.3	277.9	240.7	223.2	167.4	159.8	141.1	130.2
87.5°	206.8	205.7	200.2	203.5	186.0	152.1	125.8	94.1	76.6	63.5	52.5
90°	86.4	87.5	84.3	79.9	70.0	58.0	43.8	26.3	13.1	4.4	2.2
92.5°	65.7	66.7	64.6	58.0	50.3	40.5	29.5	15.3	8.8	3.3	1.1
95°	40.5	41.6	39.4	35.0	30.6	23.0	15.3	9.8	5.5	2.2	0.0
97.5°	24.1	25.2	23.0	20.8	16.4	10.9	8.8	6.6	4.4	2.2	0.0
100°	14.2	14.2	13.1	10.9	7.7	6.6	5.5	4.4	3.3	1.1	0.0
102.5°	6.6	6.6	6.6	4.4	3.3	3.3	3.3	3.3	3.3	1.1	0.0
105°	2.2	2.2	1.1	1.1	1.1	2.2	2.2	2.2	2.2	1.1	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	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	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°	2612.9	2612.9	2612.9	2612.9	2612.9	2612.9	2612.9	2612.9	2612.9	2612.9
2.5°	2640.3	2619.5	2622.8	2604.2	2599.8	2580.1	2615.1	2618.4	2608.5	2618.4
5°	2673.1	2647.9	2654.5	2633.7	2628.2	2600.9	2629.3	2627.1	2619.5	2629.3
7.5°	2721.2	2692.8	2696.1	2672.0	2666.5	2635.9	2662.1	2654.5	2645.7	2657.8
10°	2782.5	2755.1	2756.2	2723.4	2720.1	2685.1	2719.0	2704.8	2691.7	2709.2
12.5°	2867.8	2829.6	2826.3	2790.2	2789.1	2753.0	2788.0	2775.9	2758.4	2785.8
15°	2966.3	2914.9	2901.8	2855.8	2854.7	2816.4	2851.4	2832.8	2824.1	2856.9
17.5°	3094.3	3029.8	2930.2	2773.7	2702.6	2714.7	2838.3	2883.2	2766.1	2783.6
20°	3172.0	2859.1	2713.6	2649.0	2615.1	2420.3	2156.6	2178.5	2437.8	2561.5
22.5°	3040.7	2947.7	2894.1	2803.3	2330.6	2263.9	2279.2	2274.8	1940.0	1840.4
25°	3314.3	3226.7	3129.4	2569.1	2471.8	2443.3	2451.0	2136.9	1954.2	1961.9
27.5°	3708.2	3595.5	2978.4	2735.5	2715.8	2674.2	2523.2	2145.7	2168.7	2184.0
30°	4206.0	3805.6	3172.0	3065.9	3026.5	2981.6	2341.5	2397.4	2440.0	2487.1
32.5°	4687.5	3701.6	3543.0	3432.4	3371.2	2707.0	2641.4	2744.2	2786.9	2827.4
35°	4643.7	4146.9	3941.2	3801.2	3686.3	2921.5	2979.5	3135.9	3248.6	3247.5
37.5°	4764.1	4631.7	4394.2	4217.0	3199.4	3272.7	3394.2	3572.5	3709.3	3708.2
40°	5266.3	5123.0	4899.7	4519.0	3545.1	3715.8	3882.2	4049.6	4148.0	4155.7
42.5°	5765.2	5654.7	5453.4	3991.6	3968.6	4204.9	4378.9	4485.0	4545.2	4566.0
45°	6262.0	6158.1	5358.2	4415.0	4485.0	4719.2	4825.3	4846.1	4910.7	4908.5
47.5°	6657.0	6568.4	4929.3	4918.3	5092.3	5254.3	5220.3	5194.1	5210.5	5219.2
50°	7021.4	5718.2	5314.4	5474.2	5739.0	5758.7	5617.5	4450.0	5509.2	5490.6
52.5°	6522.4	5580.3	5673.3	6047.5	6498.3	6269.7	5993.9	3900.8	5166.7	5658.0
55°	5707.2	5801.3	6011.4	6639.5	7084.8	6813.5	6352.8	4016.7	3429.2	2791.3
57.5°	5821.0	5969.9	6369.2	7236.9	7625.3	5396.5	5929.4	2831.7	1917.0	1915.9
60°	5420.6	5646.0	6361.6	7505.0	6172.3	3457.6	2375.5	64.6	372.0	368.7
62.5°	4582.4	4903.0	6069.4	7335.4	5113.1	2809.9	2116.1	5.5	2.2	2.2
65°	3544.1	3921.5	5060.6	6351.7	4529.9	2420.3	1571.2	0.0	0.0	0.0
67.5°	2324.0	2674.2	3800.1	5276.1	3760.7	1829.5	1055.9	0.0	0.0	0.0
70°	968.4	1400.6	2361.2	3813.2	2766.1	1198.1	501.1	0.0	0.0	0.0
72.5°	280.1	426.7	1063.5	2277.0	1716.8	627.0	186.0	0.0	0.0	0.0
75°	184.9	194.8	321.7	915.8	834.9	229.8	75.5	0.0	0.0	0.0
77.5°	155.4	159.8	204.6	256.0	268.1	90.8	61.3	0.0	0.0	0.0
80°	143.3	144.4	183.8	190.4	143.3	75.5	60.2	0.0	0.0	0.0
82.5°	133.5	130.2	156.5	151.0	119.3	65.7	55.8	0.0	0.0	0.0
85°	91.9	94.1	106.1	134.6	72.2	32.8	39.4	0.0	0.0	0.0
87.5°	28.4	32.8	41.6	42.7	13.1	4.4	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)