

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: P579472

Luminaire Tested: **CTN-CA10-210-740-U-T5-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-210-740-U-T5-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25658 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U2 - G4

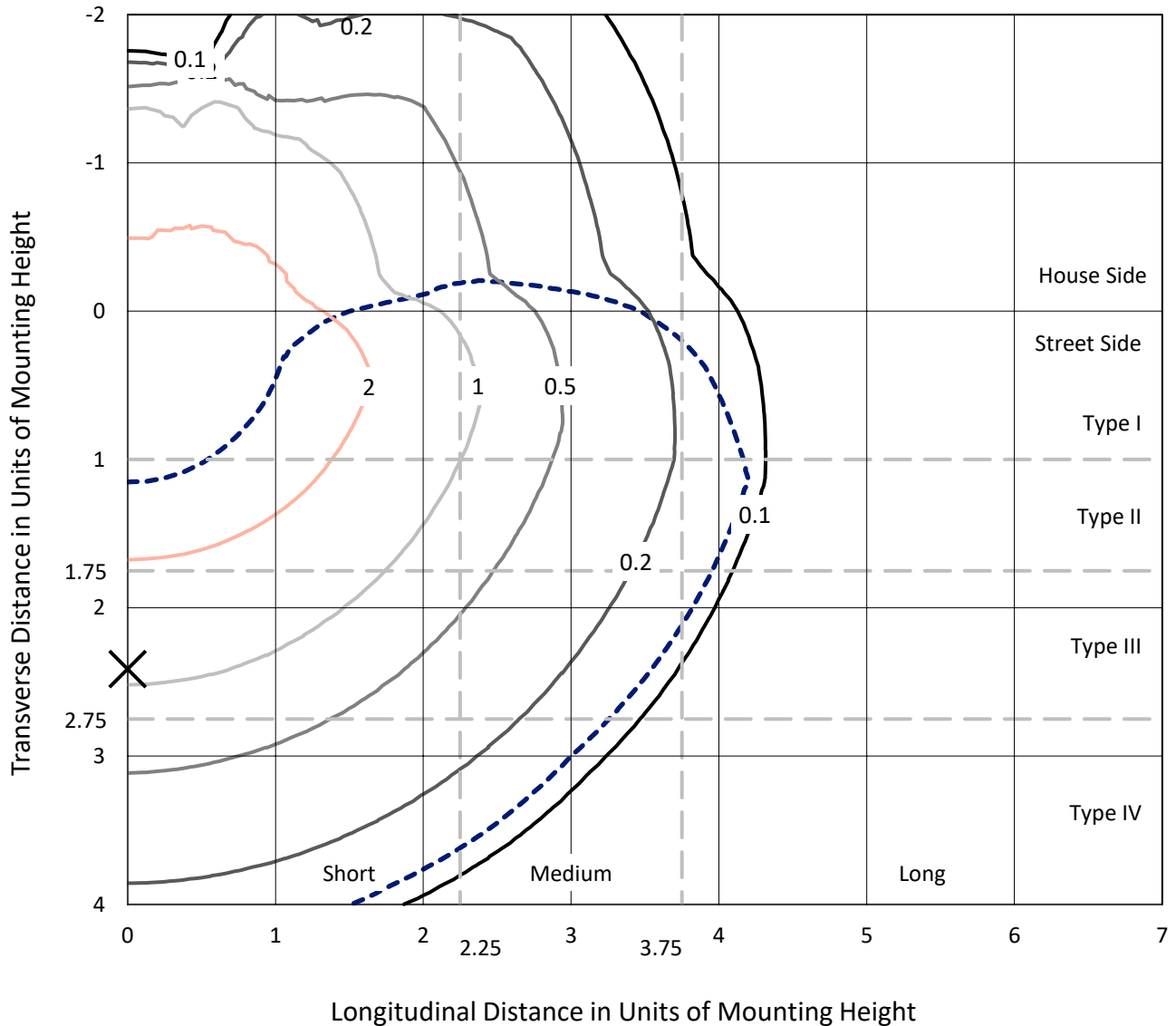
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

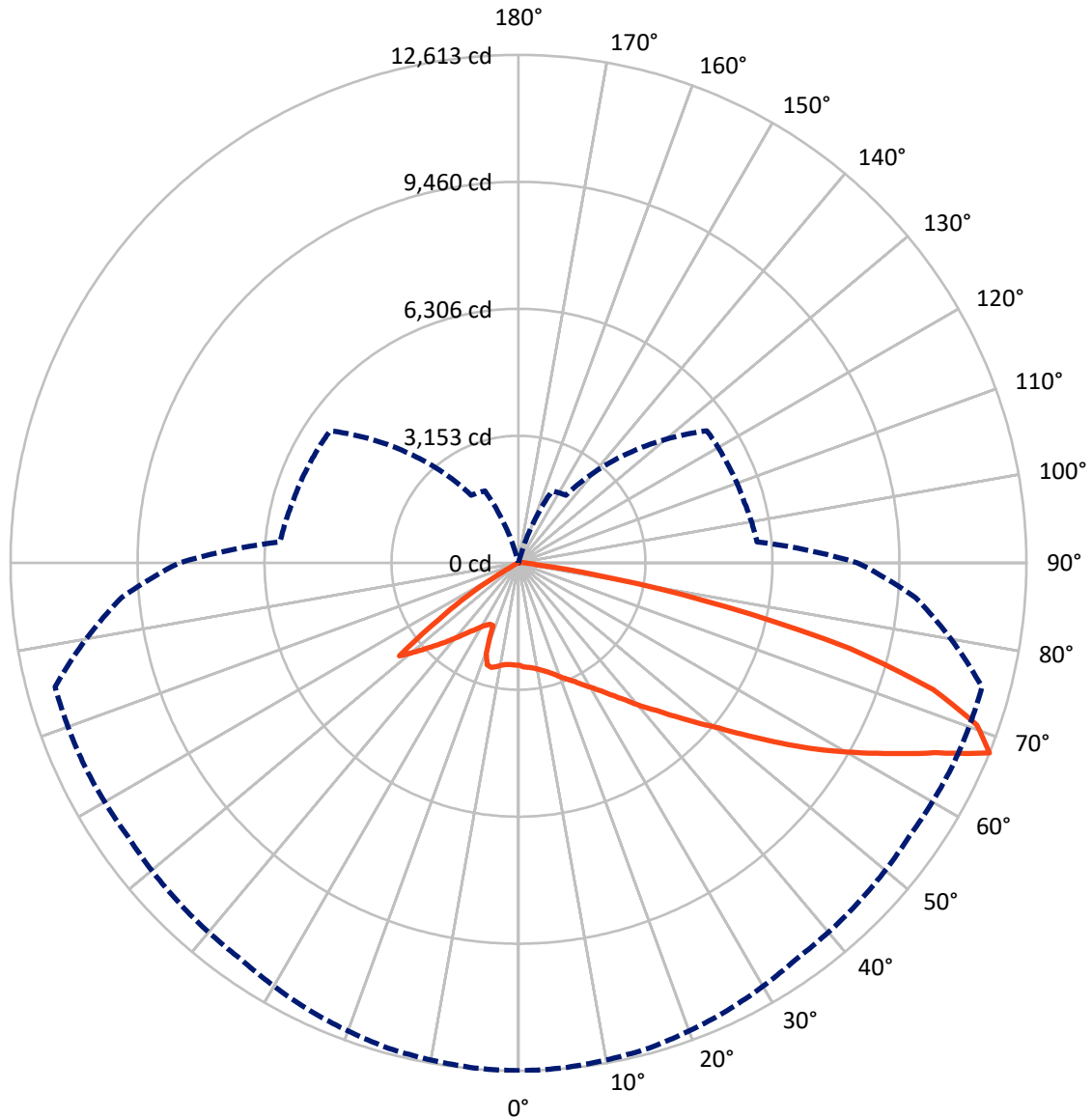
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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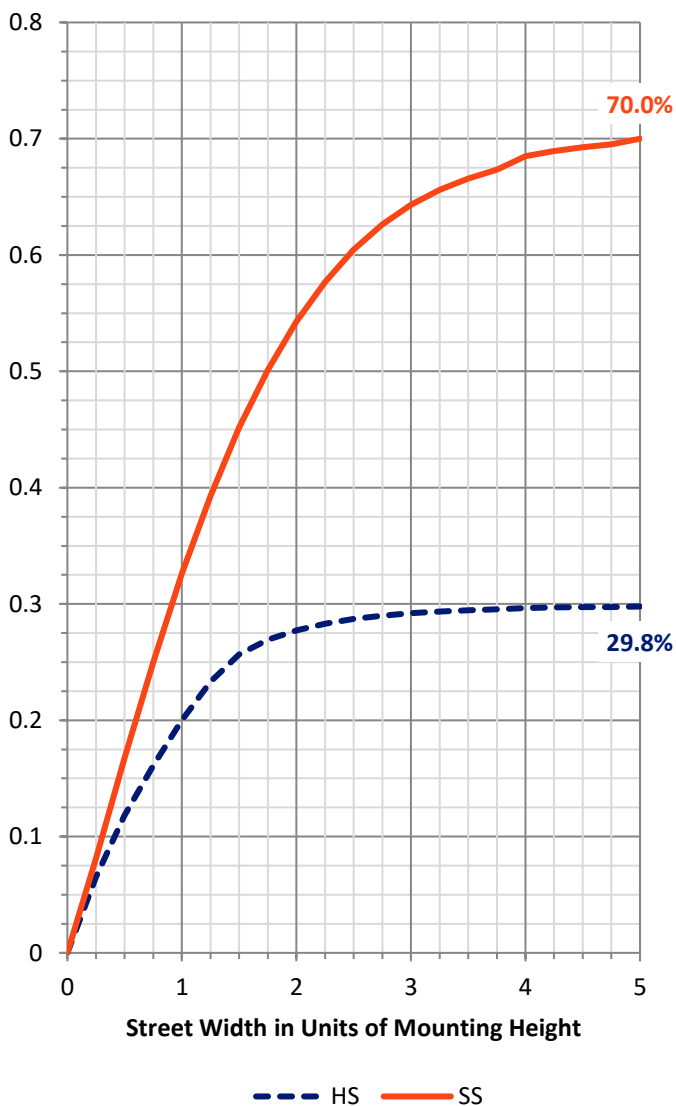
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7659.1	2.6	7661.6
	% Fixture	29.9	0.0	29.9
Street Side	Lumens	17967.5	28.9	17996.4
	% Fixture	70.0	0.1	70.1
Total	Lumens	25626.6	31.5	25658.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.1	1.0
10°-20°	758.8	3.0
20°-30°	1273.4	5.0
30°-40°	2065.0	8.0
40°-50°	3374.3	13.2
50°-60°	5288.2	20.6
60°-70°	7082.5	27.6
70°-80°	5162.2	20.1
80°-90°	377.0	1.5
90°-100°	24.1	0.1
100°-110°	6.9	0.0
110°-120°	0.5	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°	25626.6	99.9
0°-180°	25658.0	100.0

Coefficient of Utilization

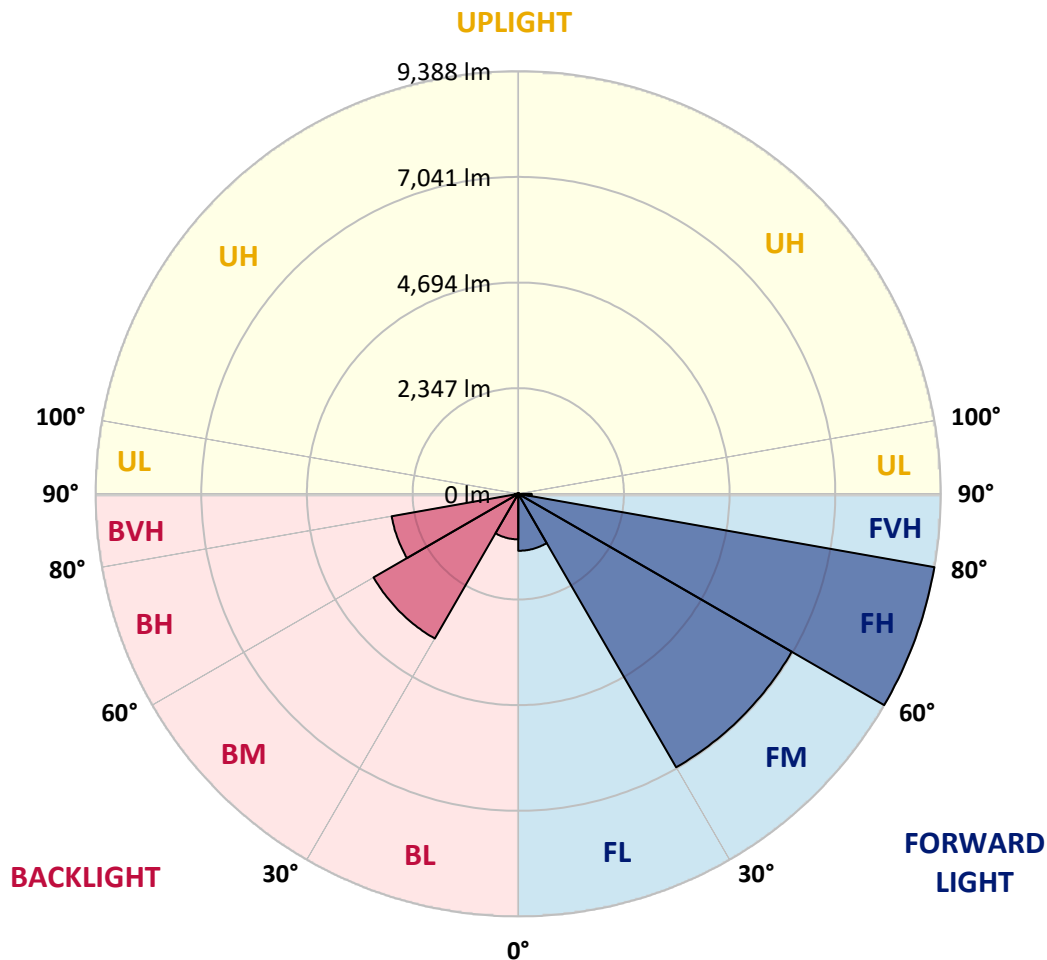


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1265.6	4.9			
FM	(30°-60°)	7015.4	27.3			
FH	(60°-80°)	9388.4	36.6			G4/12000
FVH	(80°-90°)	298.1	1.2			G3/500
BL	(0°-30°)	1011.8	3.9	B3/2500		
BM	(30°-60°)	3712.1	14.5	B3/5000		
BH	(60°-80°)	2856.3	11.1	B4/5000		G4/5000
BVH	(80°-90°)	78.9	0.3			G1/100
UL	(90°-100°)	24.1	0.1		U2/50	
UH	(100°-180°)	7.3	0.0		U1/10	

BUG Rating: B4-U2-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2542.4	2542.4	2542.4	2542.4	2542.4	2542.4	2542.4	2542.4	2542.4	2542.4	2542.4
2.5°	2591.0	2575.9	2576.9	2591.0	2548.9	2562.9	2544.6	2558.6	2548.9	2552.1	2558.6
5°	2607.1	2591.0	2592.0	2609.3	2571.5	2583.4	2558.6	2566.1	2557.5	2561.8	2561.8
7.5°	2639.5	2621.2	2620.1	2630.9	2592.0	2596.3	2573.7	2574.8	2561.8	2570.5	2566.1
10°	2688.0	2672.9	2662.1	2668.6	2634.1	2631.9	2602.8	2603.9	2587.7	2597.4	2589.9
12.5°	2747.4	2726.9	2724.7	2726.9	2689.1	2680.5	2650.3	2652.4	2623.3	2638.4	2629.8
15°	2822.9	2790.5	2790.5	2802.4	2753.8	2747.4	2710.7	2712.8	2682.6	2694.5	2685.9
17.5°	2915.6	2884.4	2879.0	2887.6	2845.5	2836.9	2799.1	2797.0	2763.5	2766.8	2759.2
20°	3035.4	3004.1	2991.1	3012.7	2959.9	2953.4	2908.1	2903.8	2868.2	2858.5	2854.1
22.5°	3146.5	3121.7	3115.2	3138.9	3083.9	3078.5	3035.4	3030.0	2996.5	2982.5	2897.3
25°	3271.6	3266.2	3264.0	3271.6	3219.8	3209.0	3175.6	3168.0	3140.0	3122.7	3019.2
27.5°	3433.4	3431.2	3424.8	3425.8	3378.4	3368.7	3337.4	3332.0	3302.9	3283.5	3150.8
30°	3602.7	3602.7	3588.7	3596.3	3572.5	3557.4	3532.6	3513.2	3494.9	3474.4	3307.2
32.5°	3798.0	3796.9	3784.0	3806.6	3789.4	3789.4	3774.3	3753.8	3721.4	3711.7	3508.9
35°	4049.3	4033.1	4027.7	4064.4	4059.0	4068.7	4063.3	4041.8	4014.8	3992.1	3746.2
37.5°	4327.6	4323.3	4339.5	4362.1	4374.0	4399.9	4383.7	4382.6	4378.3	4321.1	3682.6
40°	4670.6	4652.3	4674.9	4686.8	4678.2	4720.2	4706.2	4718.1	4750.4	4290.9	3678.2
42.5°	5012.6	4996.4	5012.6	5070.8	5057.9	5108.6	5102.1	5148.5	5166.8	4354.6	3977.0
45°	5433.2	5414.9	5427.8	5496.9	5503.4	5564.8	5598.3	5642.5	5651.1	4766.6	4337.3
47.5°	5916.5	5886.3	5911.1	5943.4	6041.6	6099.9	6132.2	6186.1	6241.2	5262.8	4747.2
50°	6449.3	6447.2	6474.2	6530.2	6642.4	6700.7	6756.8	6812.9	6903.5	5816.2	5206.7
52.5°	7126.7	7112.7	7159.1	7212.0	7311.2	7400.7	7467.6	7525.9	7622.9	6376.0	5704.0
55°	7901.2	7852.7	7941.1	8030.7	8072.7	8178.4	8224.8	8273.4	8366.1	6964.9	5994.1
57.5°	8737.2	8725.3	8786.8	8819.2	8909.8	8975.6	9000.4	9053.2	9052.2	7577.6	6488.2
60°	9560.2	9547.3	9619.5	9639.0	9711.2	9770.6	9761.9	9809.4	9826.6	8152.6	6972.5
62.5°	10426.4	10404.8	10471.7	10476.0	10432.9	10528.9	10519.1	10559.1	10544.0	8714.5	7449.3
65°	11373.5	11389.6	11411.2	11322.8	11219.2	11302.3	11300.1	11375.6	11429.5	9499.8	8087.8
67.5°	12612.8	12592.3	12481.2	12267.7	12016.3	11932.2	11842.7	11897.7	11912.8	9890.3	8414.7
70°	12077.8	12032.5	11982.9	11765.0	11461.9	11248.3	11109.2	11167.4	11228.9	9346.6	7903.4
72.5°	10773.7	10661.5	10430.7	10238.7	10064.0	9855.8	9686.4	9787.8	9922.6	8290.6	6998.4
75°	8499.9	8395.3	8227.0	8096.5	8002.6	8000.5	7992.9	8071.7	8052.2	6732.0	5690.0
77.5°	5263.9	5482.9	5638.2	5527.1	5565.9	5486.1	5661.9	5765.5	5859.3	4826.0	4053.6
80°	2430.2	2486.3	2761.4	2690.2	2633.0	2616.8	2627.6	2807.8	2860.6	2166.0	1814.3
82.5°	554.4	531.8	551.2	511.3	509.1	485.4	488.6	488.6	471.4	399.1	334.4
85°	280.5	286.9	289.1	277.2	244.9	220.0	203.9	172.6	148.9	127.3	107.9
87.5°	187.7	193.1	196.3	180.1	161.8	141.3	128.4	104.6	83.1	51.8	39.9
90°	128.4	127.3	124.0	115.4	103.6	88.5	71.2	49.6	29.1	10.8	7.6
92.5°	91.7	89.5	88.5	80.9	72.3	60.4	46.4	31.3	16.2	7.6	4.3
95°	60.4	59.3	59.3	55.0	48.5	39.9	31.3	20.5	11.9	6.5	4.3
97.5°	42.1	41.0	41.0	38.8	34.5	29.1	21.6	14.0	9.7	6.5	4.3
100°	29.1	29.1	29.1	27.0	24.8	20.5	16.2	10.8	8.6	6.5	4.3
102.5°	19.4	19.4	20.5	19.4	17.3	14.0	10.8	8.6	7.6	5.4	4.3
105°	12.9	12.9	12.9	12.9	11.9	9.7	8.6	7.6	6.5	5.4	4.3
107.5°	8.6	8.6	8.6	8.6	7.6	6.5	6.5	6.5	5.4	5.4	4.3
110°	5.4	5.4	5.4	6.5	5.4	5.4	5.4	5.4	5.4	4.3	4.3



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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°	2542.4	2542.4	2542.4	2542.4	2542.4	2542.4	2542.4	2542.4	2542.4	2542.4
2.5°	2553.2	2538.1	2545.7	2530.5	2524.1	2510.1	2537.0	2539.2	2537.0	2541.3
5°	2556.4	2539.2	2547.8	2530.5	2527.3	2511.1	2538.1	2538.1	2531.6	2534.9
7.5°	2564.0	2545.7	2552.1	2531.6	2531.6	2512.2	2544.6	2542.4	2537.0	2544.6
10°	2589.9	2568.3	2568.3	2548.9	2551.0	2530.5	2570.5	2570.5	2566.1	2579.1
12.5°	2629.8	2602.8	2603.9	2576.9	2581.2	2565.1	2613.6	2615.8	2615.8	2637.3
15°	2681.6	2640.6	2644.9	2615.8	2624.4	2605.0	2648.1	2646.0	2651.4	2682.6
17.5°	2745.2	2699.9	2662.1	2567.2	2511.1	2513.3	2641.7	2701.0	2631.9	2652.4
20°	2772.2	2552.1	2432.4	2397.9	2390.3	2270.6	2025.7	2063.5	2294.3	2394.6
22.5°	2591.0	2520.8	2509.0	2464.8	2137.9	2047.3	2062.4	2040.8	1814.3	1686.0
25°	2679.4	2633.0	2606.1	2216.7	2143.3	2127.1	2116.3	1911.4	1665.5	1677.3
27.5°	2804.5	2744.1	2420.5	2226.4	2240.4	2215.6	2153.0	1719.4	1711.8	1731.3
30°	2952.3	2800.2	2359.0	2340.7	2356.9	2324.5	1810.0	1792.7	1792.7	1812.2
32.5°	3133.5	2540.3	2503.6	2505.7	2495.0	2128.2	1904.9	1900.6	1913.6	1929.7
35°	3082.8	2709.6	2712.8	2731.2	2706.4	2081.8	2053.8	2037.6	2048.4	2054.9
37.5°	2983.6	2964.2	2964.2	2943.7	2310.5	2244.7	2214.5	2212.3	2211.3	2211.3
40°	3233.8	3215.5	3192.9	3157.3	2417.3	2434.5	2389.2	2383.9	2387.1	2399.0
42.5°	3518.6	3511.1	3508.9	2709.6	2639.5	2652.4	2603.9	2589.9	2589.9	2616.8
45°	3854.1	3844.4	3606.0	2896.2	2884.4	2899.5	2845.5	2812.1	2830.4	2849.8
47.5°	4239.2	4239.2	3192.9	3175.6	3175.6	3184.2	3130.3	3085.0	3103.3	3109.8
50°	4660.9	4001.8	3513.2	3497.0	3512.1	3507.8	3451.7	3031.1	3420.4	3423.7
52.5°	4778.5	3891.8	3864.9	3846.5	3864.9	3861.6	3803.4	2528.4	3699.8	3752.7
55°	4235.9	4239.2	4233.8	4206.8	4226.2	4218.7	4161.5	2760.3	2727.9	2431.3
57.5°	4580.0	4584.3	4582.2	4577.9	4595.1	3338.5	4310.3	2493.9	1523.1	1524.2
60°	4954.3	4932.7	4926.3	4916.6	4166.9	2366.6	1796.0	173.7	595.4	586.8
62.5°	5294.1	5286.5	5263.9	5258.5	3535.9	1863.9	1820.8	39.9	31.3	30.2
65°	5766.5	5699.7	5681.3	5624.2	3768.9	1984.7	1943.8	11.9	1.1	0.0
67.5°	5942.4	5806.5	5740.7	5710.5	3834.7	2047.3	1968.6	11.9	1.1	0.0
70°	5610.1	5441.9	5358.8	5325.4	3583.3	1913.6	1835.9	11.9	1.1	0.0
72.5°	4974.8	4850.8	4817.3	4710.5	3159.4	1679.5	1611.5	11.9	0.0	0.0
75°	4080.6	4035.3	3994.3	3881.0	2568.3	1334.3	1273.9	10.8	0.0	0.0
77.5°	2969.6	2902.7	2827.2	2704.2	1733.4	871.6	840.3	9.7	0.0	0.0
80°	1338.6	1283.6	1265.3	1073.3	614.8	283.7	250.3	8.6	0.0	0.0
82.5°	260.0	234.1	222.2	213.6	138.1	76.6	66.9	6.5	0.0	0.0
85°	88.5	98.2	114.3	126.2	77.7	46.4	38.8	4.3	0.0	0.0
87.5°	34.5	46.4	56.1	58.2	29.1	19.4	10.8	2.2	0.0	0.0
90°	6.5	8.6	7.6	5.4	3.2	1.1	0.0	0.0	0.0	0.0
92.5°	3.2	4.3	3.2	3.2	2.2	1.1	0.0	0.0	0.0	0.0
95°	4.3	4.3	4.3	3.2	2.2	1.1	0.0	0.0	0.0	0.0
97.5°	4.3	4.3	4.3	3.2	2.2	1.1	0.0	0.0	0.0	0.0
100°	4.3	4.3	4.3	3.2	2.2	1.1	0.0	0.0	0.0	0.0
102.5°	4.3	4.3	4.3	3.2	2.2	1.1	0.0	0.0	0.0	0.0
105°	4.3	5.4	4.3	3.2	2.2	1.1	0.0	0.0	0.0	0.0
107.5°	4.3	5.4	4.3	3.2	2.2	1.1	0.0	0.0	0.0	0.0
110°	4.3	5.4	4.3	3.2	2.2	1.1	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)