

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: P579426

Luminaire Tested: **CTN-CA10-210-730-U-T5-HSS-HM-EX90**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579426
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-1)
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-T5-HSS-HM-EX90
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: 27666 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U2 - G4

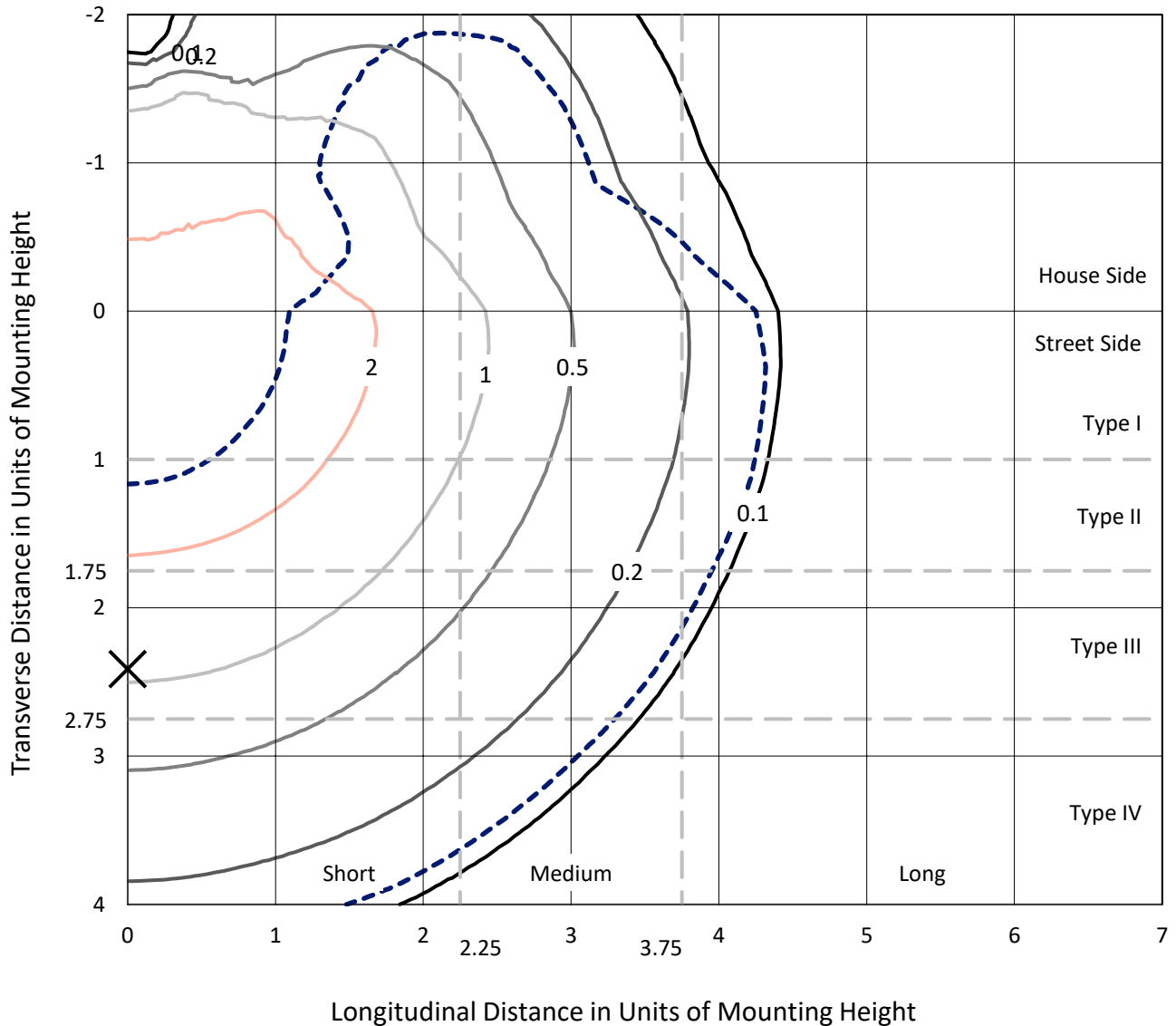
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

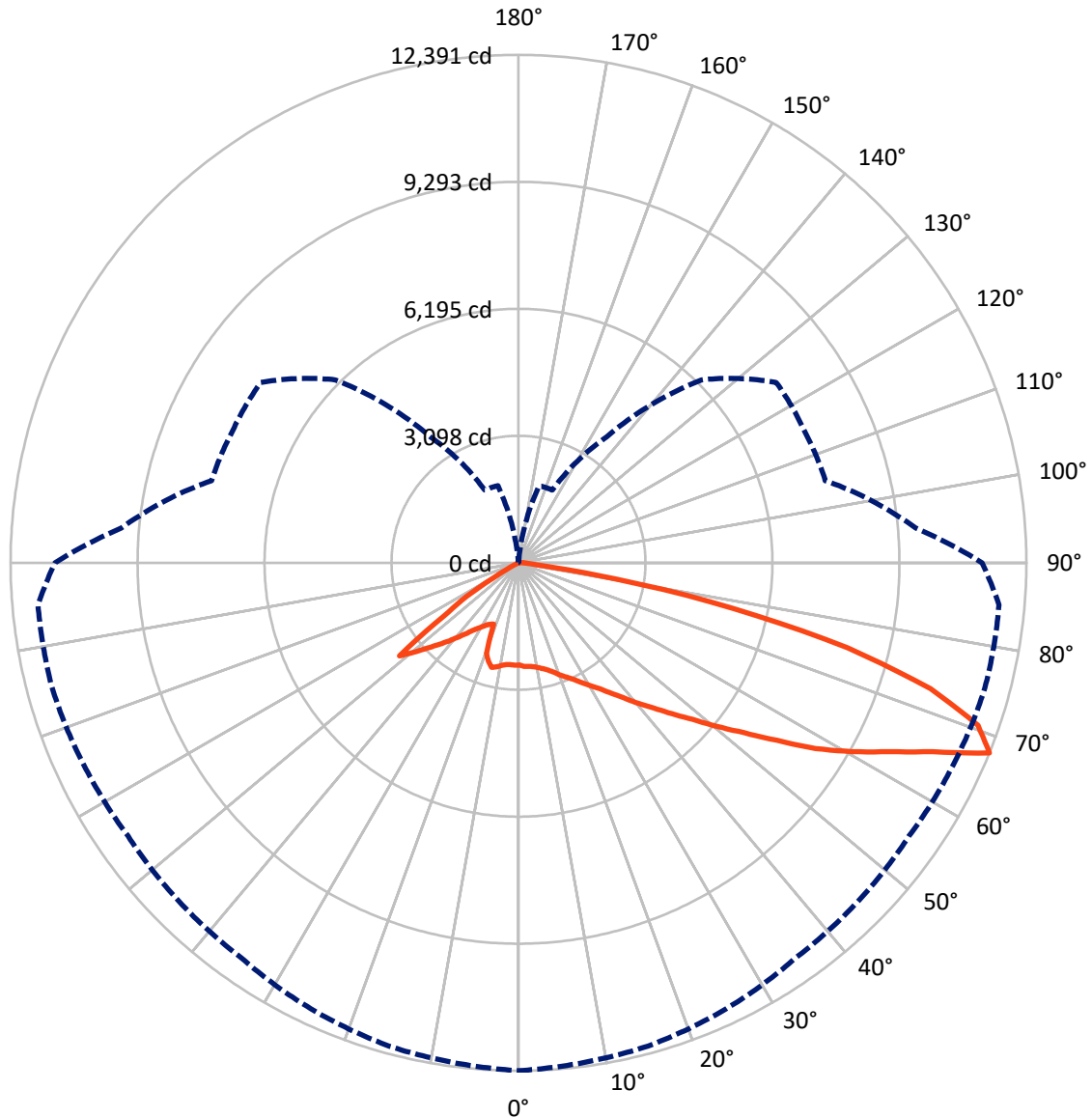
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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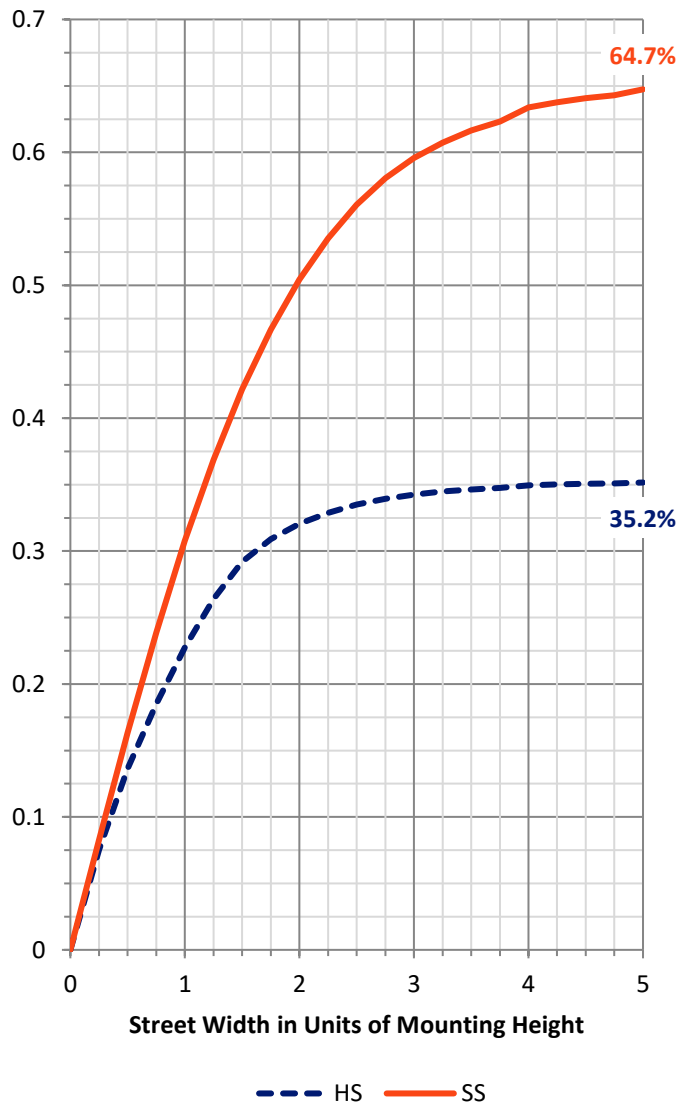
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9738.4	0.6	9739.0
	% Fixture	35.2	0.0	35.2
Street Side	Lumens	17907.5	19.5	17927.0
	% Fixture	64.7	0.1	64.8
Total	Lumens	27645.9	20.1	27666.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.8	0.9
10°-20°	745.1	2.7
20°-30°	1291.8	4.7
30°-40°	2119.7	7.7
40°-50°	3535.7	12.8
50°-60°	5722.1	20.7
60°-70°	7898.3	28.5
70°-80°	5698.3	20.6
80°-90°	395.0	1.4
90°-100°	17.1	0.1
100°-110°	2.9	0.0
110°-120°	0.1	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°	27645.9	99.9
0°-180°	27666.0	100.0

Coefficient of Utilization

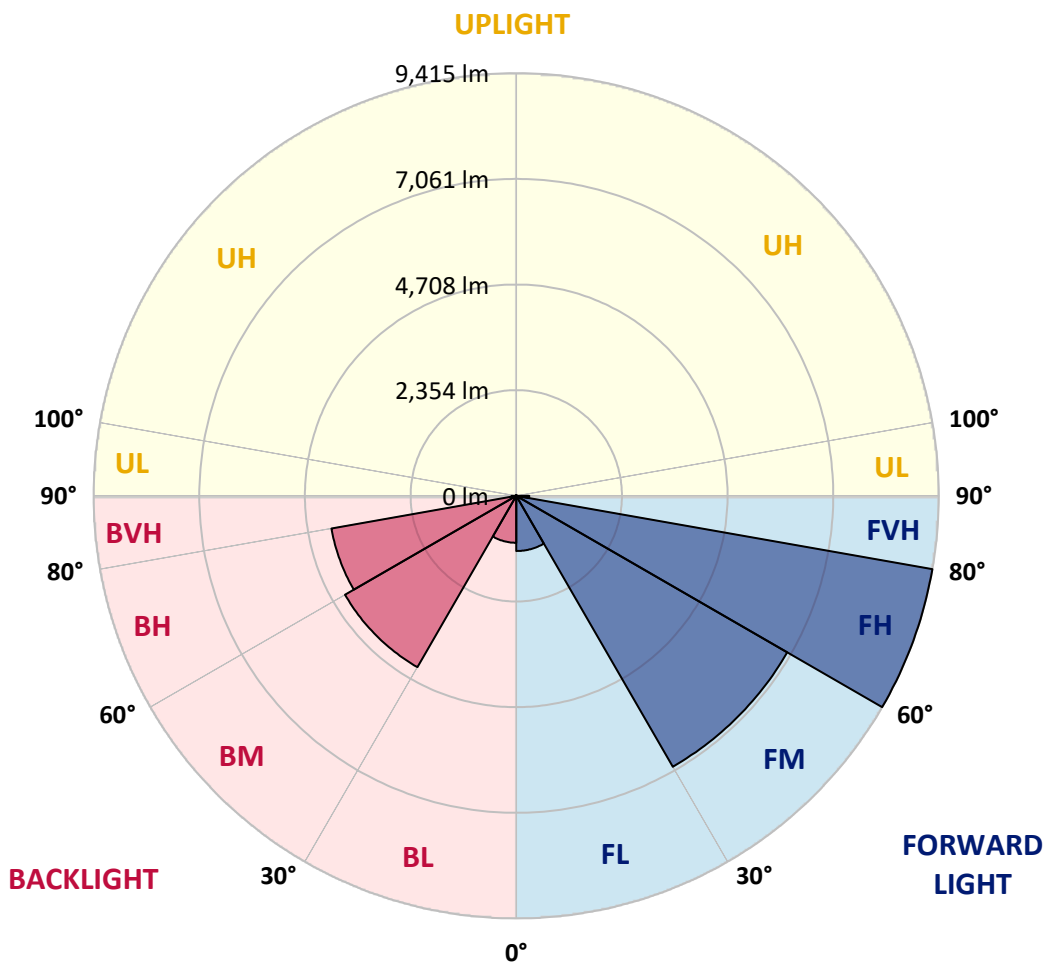


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1230.3	4.4			
FM (30°-60°)	6971.1	25.2			
FH (60°-80°)	9415.1	34.0			G4/12000
FVH (80°-90°)	291.0	1.1			G3/500
BL (0°-30°)	1046.5	3.8	B3/2500		
BM (30°-60°)	4406.4	15.9	B3/5000		
BH (60°-80°)	4181.5	15.1	B4/5000		G4/5000
BVH (80°-90°)	103.9	0.4			G2/225
UL (90°-100°)	17.1	0.1		U2/50	
UH (100°-180°)	3.0	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°	2493.2	2493.2	2493.2	2493.2	2493.2	2493.2	2493.2	2493.2	2493.2	2493.2	2493.2
2.5°	2531.3	2516.5	2517.6	2532.4	2492.1	2507.0	2490.0	2504.8	2497.4	2502.7	2509.1
5°	2538.7	2520.7	2522.8	2540.9	2509.1	2520.7	2500.6	2509.1	2502.7	2509.1	2510.1
7.5°	2557.8	2539.8	2540.9	2554.6	2521.8	2530.3	2511.2	2515.4	2504.8	2516.5	2513.3
10°	2598.0	2581.1	2574.7	2586.4	2557.8	2558.9	2536.6	2540.9	2525.0	2540.9	2534.5
12.5°	2652.1	2628.8	2630.9	2637.2	2602.3	2604.4	2577.9	2584.3	2557.8	2580.0	2572.6
15°	2717.7	2689.1	2692.3	2702.9	2669.0	2665.8	2641.5	2641.5	2618.2	2635.1	2627.7
17.5°	2808.8	2777.0	2774.9	2782.3	2754.8	2754.8	2727.3	2724.1	2700.8	2714.5	2712.4
20°	2927.4	2891.4	2885.1	2898.8	2863.9	2868.1	2833.2	2830.0	2804.6	2813.0	2814.1
22.5°	3034.4	3005.8	3004.7	3025.9	2984.6	2989.9	2958.1	2949.7	2928.5	2940.1	2943.3
25°	3157.3	3153.0	3149.9	3157.3	3116.0	3116.0	3093.7	3086.3	3072.5	3081.0	3089.5
27.5°	3311.9	3309.8	3301.3	3302.4	3267.4	3272.7	3248.3	3244.1	3237.8	3236.7	3232.5
30°	3482.4	3472.9	3461.2	3468.6	3452.8	3458.1	3436.9	3423.1	3421.0	3422.0	3415.7
32.5°	3672.0	3659.3	3651.9	3664.6	3670.9	3685.8	3684.7	3646.6	3646.6	3662.5	3633.9
35°	3907.1	3887.0	3893.4	3910.3	3923.0	3961.1	3954.8	3928.3	3936.8	3944.2	3910.3
37.5°	4183.6	4169.8	4198.4	4230.2	4231.2	4285.2	4272.5	4278.9	4277.8	4268.3	4246.0
40°	4515.1	4492.8	4522.5	4546.8	4532.0	4596.6	4594.5	4623.1	4642.2	4675.0	4662.3
42.5°	4844.5	4827.5	4856.1	4909.1	4900.6	4974.7	4985.3	5029.8	5056.3	5107.1	5077.5
45°	5250.1	5240.6	5267.1	5308.4	5337.0	5435.5	5474.6	5493.7	5560.4	5621.9	5553.0
47.5°	5704.5	5717.2	5712.9	5788.1	5851.7	5971.4	5987.3	6048.7	6106.9	6174.7	6108.0
50°	6270.0	6248.9	6267.9	6339.9	6443.7	6530.6	6612.1	6700.1	6757.2	6827.1	6704.3
52.5°	6879.0	6897.1	6939.4	7050.6	7126.9	7229.6	7303.8	7408.6	7464.7	7525.1	7365.2
55°	7646.9	7661.7	7708.3	7822.7	7876.7	7993.2	8044.1	8148.9	8203.0	8229.4	8025.0
57.5°	8547.2	8497.4	8535.5	8594.8	8678.5	8804.5	8818.3	8916.8	8916.8	8950.7	8690.2
60°	9351.1	9317.2	9357.4	9442.1	9475.0	9589.4	9577.7	9658.2	9679.4	9654.0	9342.6
62.5°	10143.3	10149.6	10201.5	10229.1	10216.4	10284.1	10311.7	10396.4	10361.5	10369.9	10010.9
65°	11105.0	11119.8	11114.5	11063.7	10949.3	11082.7	11075.3	11209.8	11218.3	11294.6	10877.3
67.5°	12390.8	12325.1	12205.4	12001.0	11774.3	11696.0	11627.1	11693.8	11779.6	11765.9	11308.3
70°	11890.8	11783.9	11721.4	11543.5	11240.5	11083.8	10940.8	10952.5	11077.4	11089.1	10620.9
72.5°	10511.9	10457.8	10217.4	10061.7	9854.1	9733.4	9560.8	9599.9	9763.1	9790.6	9417.8
75°	8291.9	8242.1	8025.0	7974.2	7871.4	7930.8	7888.4	7904.3	8035.6	7914.9	7691.4
77.5°	5366.6	5378.3	5344.4	5459.8	5455.6	5458.8	5613.4	5629.3	5757.4	5683.3	5467.2
80°	2406.3	2441.3	2523.9	2691.2	2589.6	2644.6	2704.0	2686.0	2815.2	2522.8	2627.7
82.5°	487.2	504.1	475.5	496.7	463.9	480.8	505.2	468.1	463.9	430.0	399.3
85°	251.0	254.2	253.1	247.8	218.2	201.2	193.8	163.1	147.2	144.0	133.5
87.5°	163.1	165.2	159.9	158.9	139.8	128.2	114.4	96.4	80.5	56.1	46.6
90°	99.6	99.6	94.3	89.0	79.4	71.0	57.2	41.3	24.4	9.5	5.3
92.5°	66.7	66.7	64.6	61.4	55.1	47.7	37.1	24.4	11.7	4.2	2.1
95°	42.4	42.4	41.3	40.2	36.0	30.7	23.3	14.8	7.4	3.2	1.1
97.5°	27.5	27.5	27.5	26.5	24.4	21.2	15.9	9.5	5.3	2.1	1.1
100°	16.9	18.0	16.9	16.9	15.9	13.8	10.6	6.4	4.2	2.1	1.1
102.5°	9.5	9.5	10.6	10.6	9.5	8.5	6.4	5.3	3.2	2.1	1.1
105°	4.2	4.2	5.3	5.3	5.3	4.2	4.2	3.2	2.1	2.1	1.1
107.5°	1.1	1.1	1.1	2.1	3.2	3.2	3.2	3.2	2.1	1.1	1.1
110°	0.0	0.0	0.0	1.1	1.1	2.1	2.1	2.1	2.1	1.1	1.1



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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°	2493.2	2493.2	2493.2	2493.2	2493.2	2493.2	2493.2	2493.2	2493.2	2493.2
2.5°	2502.7	2490.0	2499.5	2483.7	2479.4	2465.7	2492.1	2496.4	2494.2	2498.5
5°	2504.8	2489.0	2500.6	2484.7	2483.7	2468.8	2496.4	2497.4	2490.0	2493.2
7.5°	2511.2	2496.4	2504.8	2486.8	2489.0	2470.9	2502.7	2501.7	2497.4	2504.8
10°	2534.5	2517.6	2520.7	2501.7	2507.0	2487.9	2527.1	2529.2	2525.0	2538.7
12.5°	2574.7	2551.4	2558.9	2536.6	2540.9	2521.8	2569.4	2572.6	2572.6	2594.9
15°	2629.8	2605.5	2621.3	2592.7	2593.8	2565.2	2601.2	2601.2	2605.5	2636.2
17.5°	2710.3	2680.7	2701.8	2675.4	2510.1	2447.6	2570.5	2645.7	2520.7	2510.1
20°	2809.9	2796.1	2807.8	2764.3	2496.4	2210.4	1988.0	1976.3	2223.1	2346.0
22.5°	2931.7	2917.9	2923.2	2868.1	2228.4	2027.2	2024.0	2002.8	1694.6	1609.9
25°	3074.7	3067.2	3055.6	2593.8	2303.6	2110.8	2085.4	1809.0	1632.1	1648.0
27.5°	3228.2	3206.0	2813.0	2694.4	2419.1	2194.5	2050.5	1689.3	1683.0	1697.8
30°	3399.8	3282.2	2879.8	2839.5	2553.6	2298.3	1784.6	1763.5	1763.5	1786.8
32.5°	3618.0	3065.1	3065.1	3043.9	2719.8	2017.6	1878.9	1866.2	1881.0	1890.5
35°	3585.2	3297.1	3331.0	3321.4	2945.4	2054.7	2030.4	2009.2	2012.3	2012.3
37.5°	3595.7	3607.4	3647.6	3606.3	2569.4	2215.7	2176.5	2172.3	2175.5	2182.9
40°	3928.3	3934.7	3949.5	3858.4	2761.2	2403.2	2349.1	2338.6	2349.1	2365.0
42.5°	4286.3	4304.3	4321.2	3508.9	3029.1	2616.0	2562.0	2541.9	2561.0	2577.9
45°	4709.9	4737.5	4478.0	3819.2	3332.0	2858.6	2801.4	2777.0	2788.7	2803.5
47.5°	5186.6	5230.0	4222.7	4214.3	3687.9	3145.6	3079.9	3033.3	3051.4	3050.3
50°	5724.6	4998.0	4665.5	4660.2	4085.1	3465.5	3397.7	3355.3	3369.1	3358.5
52.5°	6306.1	5134.7	5145.3	5144.2	4500.2	3809.7	3747.2	3694.2	3585.2	3685.8
55°	6901.3	5607.0	5647.3	5640.9	4935.5	4165.6	4098.8	4049.1	2645.7	2234.8
57.5°	7493.3	6100.6	6113.3	6128.1	5386.7	4508.7	4215.3	3872.2	1509.3	1501.8
60°	8078.0	6570.8	6596.3	6604.7	5630.3	3732.4	1723.2	1755.0	456.5	545.5
62.5°	8683.8	7034.7	7058.0	7050.6	5872.9	3470.8	1810.1	1774.0	42.4	39.2
65°	9457.0	7616.2	7583.4	7559.0	6255.2	3703.8	1944.6	1935.0	13.8	9.5
67.5°	9728.1	7748.6	7681.9	7673.4	6310.3	3753.6	1955.2	1947.7	13.8	9.5
70°	9113.8	7245.5	7131.1	7134.3	5871.8	3511.0	1823.8	1813.2	12.7	9.5
72.5°	7981.6	6399.3	6351.6	6099.5	5084.9	3088.4	1617.3	1577.0	12.7	8.5
75°	6552.8	5169.6	5063.7	4780.9	4046.9	2455.1	1269.9	1218.0	11.7	7.4
77.5°	4549.0	3625.4	3423.1	3135.0	2707.1	1627.9	853.7	786.9	10.6	7.4
80°	2062.1	1488.1	1495.5	1146.0	918.3	551.8	271.1	245.7	9.5	6.4
82.5°	359.0	264.8	248.9	240.4	200.2	135.6	82.6	71.0	8.5	4.2
85°	125.0	100.6	111.2	131.3	116.5	81.6	50.8	48.7	5.3	2.1
87.5°	42.4	44.5	51.9	62.5	55.1	31.8	19.1	13.8	1.1	0.0
90°	4.2	5.3	5.3	5.3	3.2	0.0	0.0	0.0	0.0	0.0
92.5°	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	1.1	1.1	1.1	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)