

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: P579475

Luminaire Tested: **CTN-CA10-210-740-U-T5N-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579475
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-CA10-210-740-U-T5N-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: 27416 lumens
Efficiency: N/A
Efficacy: 128.8 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

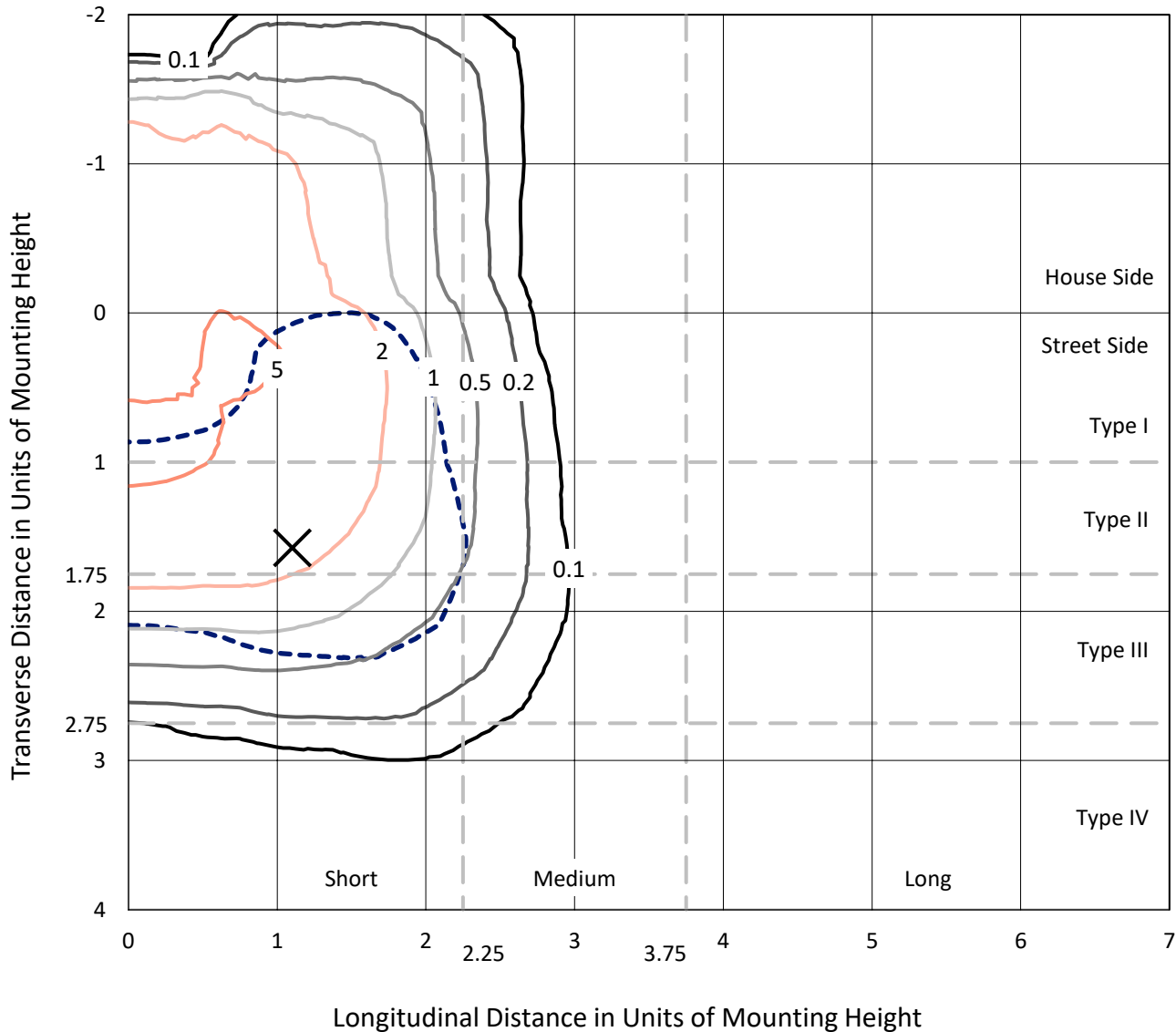




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Iso-Footcandle Lines of Horizontal Illumination

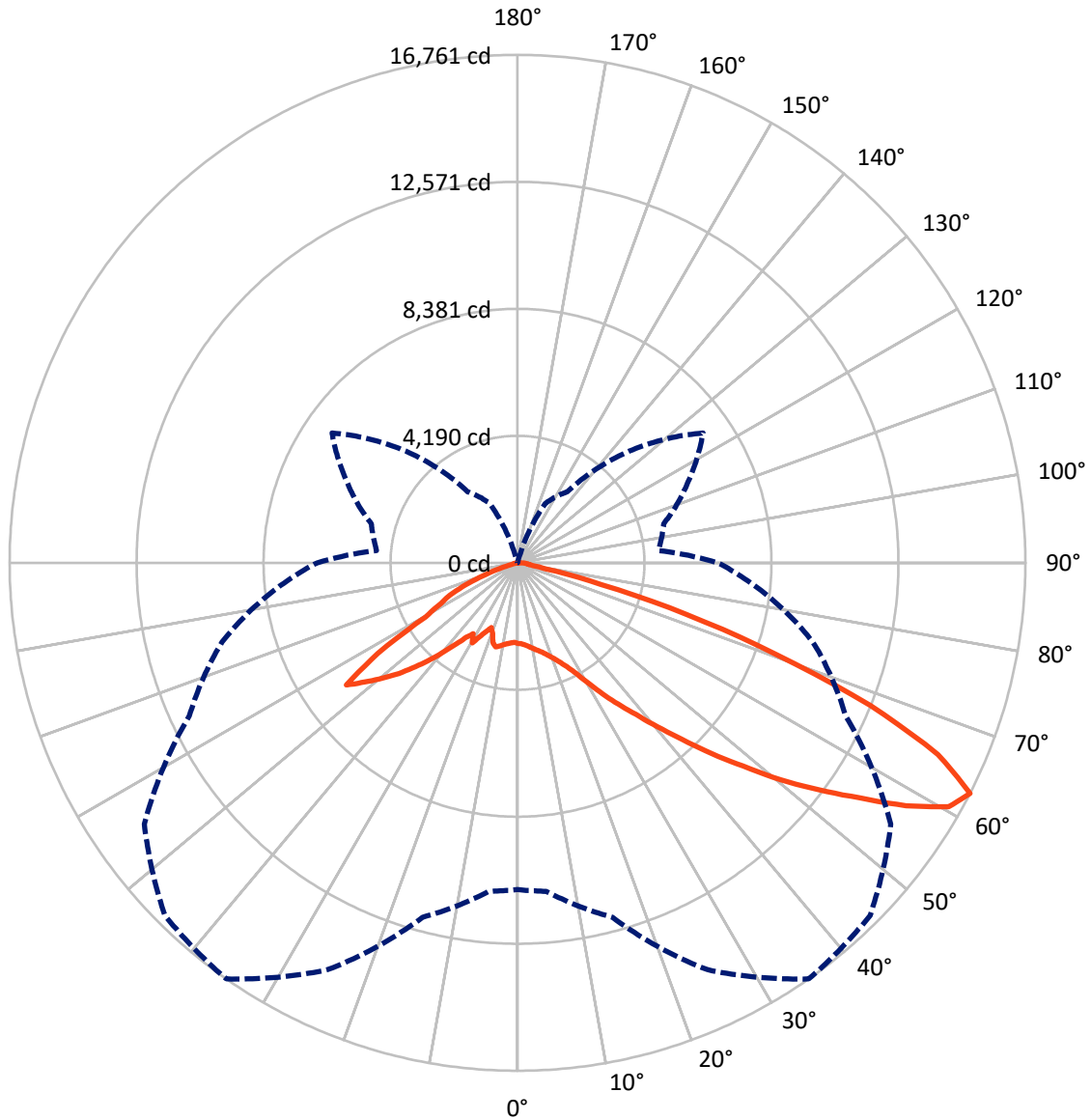
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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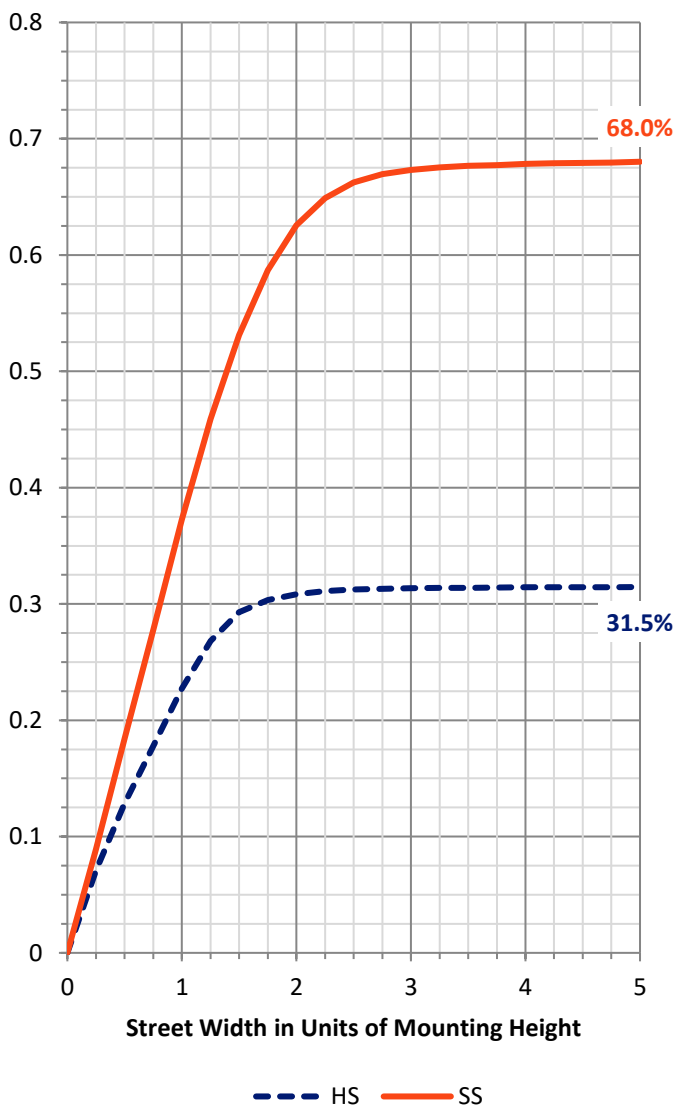
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8673.2	0.0	8673.3
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	18727.1	15.6	18742.7
	% Fixture	68.3	0.1	68.4
Total	Lumens	27400.3	15.7	27416.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.4	1.0
10°-20°	843.7	3.1
20°-30°	1566.7	5.7
30°-40°	3088.8	11.3
40°-50°	5544.8	20.2
50°-60°	8060.0	29.4
60°-70°	6624.0	24.2
70°-80°	1259.1	4.6
80°-90°	150.7	0.5
90°-100°	14.3	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°	27400.3	99.9
0°-180°	27416.0	100.0

Coefficient of Utilization



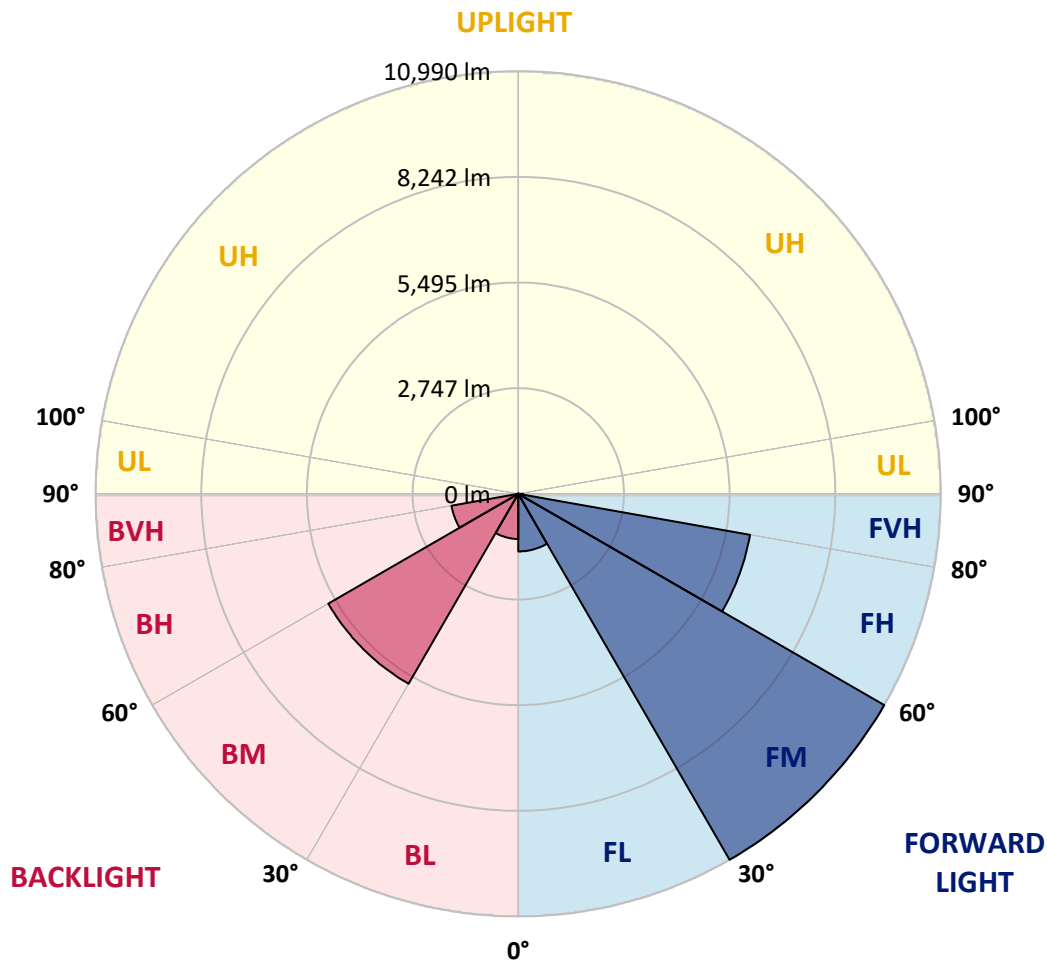
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1498.4	5.5			
FM (30°-60°)	10989.6	40.1			
FH (60°-80°)	6119.9	22.3			G3/7500
FVH (80°-90°)	119.2	0.4			G2/225
BL (0°-30°)	1174.4	4.3	B3/2500		
BM (30°-60°)	5704.1	20.8	B4/8500		
BH (60°-80°)	1763.3	6.4	B3/2500		G3/2500
BVH (80°-90°)	31.5	0.1			G1/100
UL (90°-100°)	14.3	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°	2661.1	2661.1	2661.1	2661.1	2661.1	2661.1	2661.1	2661.1	2661.1	2661.1	2661.1
2.5°	2729.1	2706.8	2709.1	2725.8	2675.6	2692.3	2668.9	2689.0	2680.1	2689.0	2694.6
5°	2783.7	2755.9	2754.8	2771.5	2731.4	2741.4	2714.6	2728.0	2715.8	2726.9	2726.9
7.5°	2850.6	2827.2	2821.6	2835.0	2799.3	2803.8	2777.0	2782.6	2768.1	2782.6	2771.5
10°	2934.2	2913.0	2904.1	2910.8	2878.5	2880.7	2851.7	2853.9	2832.8	2845.0	2836.1
12.5°	3022.2	2993.2	2988.8	2999.9	2966.5	2962.0	2937.5	2939.7	2916.3	2927.5	2920.8
15°	3113.6	3083.5	3084.6	3095.8	3062.3	3064.6	3038.9	3043.4	3020.0	3031.1	3022.2
17.5°	3235.1	3205.0	3202.7	3222.8	3194.9	3203.9	3177.1	3182.7	3166.0	3168.2	3158.2
20°	3408.9	3369.9	3362.1	3391.1	3354.3	3365.4	3350.9	3369.9	3363.2	3357.6	3349.8
22.5°	3616.2	3586.1	3570.5	3592.8	3549.3	3570.5	3578.3	3617.3	3627.3	3620.6	3498.0
25°	3893.7	3878.1	3862.5	3852.4	3800.0	3833.5	3873.6	3938.2	3980.6	3997.3	3826.8
27.5°	4268.1	4275.9	4207.9	4196.8	4137.7	4190.1	4262.5	4367.3	4453.1	4484.3	4254.7
30°	4749.5	4759.5	4667.0	4640.3	4604.6	4649.2	4784.0	4898.8	5025.9	5078.2	4771.8
32.5°	5389.2	5380.2	5244.3	5193.0	5160.7	5178.5	5320.1	5477.2	5619.8	5738.0	5361.3
35°	6170.3	6142.5	5997.6	5856.1	5727.9	5782.5	5886.2	6076.7	6292.9	6466.8	5943.0
37.5°	7077.4	7050.7	6830.1	6599.4	6346.4	6369.8	6462.3	6773.2	7051.8	7097.5	5843.8
40°	8014.6	8003.5	7795.1	7502.0	7108.6	6998.3	7120.9	7499.8	7794.0	6997.2	6074.5
42.5°	8950.7	8897.2	8780.2	8487.1	7963.4	7720.4	7885.4	8264.3	8580.7	7336.0	6609.4
45°	9894.6	9840.0	9740.8	9525.7	8980.8	8627.6	8675.5	9095.6	9382.0	7971.2	7166.6
47.5°	10732.6	10692.5	10621.2	10500.8	10015.0	9695.1	9602.6	9896.8	10091.9	8487.1	7594.5
50°	11454.7	11420.2	11448.1	11407.9	11265.3	10929.9	10624.5	10605.6	10699.2	8946.3	7987.9
52.5°	12089.9	12043.1	12162.4	12303.9	12435.4	12360.7	11621.9	11277.6	11192.9	9290.6	8252.0
55°	12614.8	12598.1	12803.1	13185.4	13685.7	13881.9	12688.4	11898.3	11634.2	9582.6	8276.5
57.5°	12929.1	12969.2	13402.7	14142.6	15121.1	15213.6	13936.5	12558.0	12023.1	9759.8	8393.5
60°	12391.9	12527.9	13308.0	14860.3	16342.4	16382.5	14833.6	12689.5	11513.8	9122.3	7768.4
62.5°	10782.8	10880.8	12107.8	14814.6	16761.4	16456.1	15034.1	11947.3	10090.7	7738.3	6607.2
65°	7619.0	7732.7	9211.5	13359.2	15249.2	15260.4	13771.5	10331.4	8065.9	5990.9	5101.6
67.5°	4595.7	4779.6	6180.4	9698.5	12555.8	12784.2	11489.3	7821.9	5772.5	3911.5	3301.9
70°	1507.8	1676.0	2821.6	5740.2	9051.0	10029.4	8628.7	5082.7	3014.4	1653.7	1331.7
72.5°	597.3	674.2	994.0	2538.6	5832.7	6696.3	5316.7	2456.1	1011.9	439.1	382.2
75°	398.9	406.7	459.1	864.8	2853.9	3661.9	2563.1	714.3	375.5	274.1	240.7
77.5°	347.7	348.8	372.2	455.8	929.4	1404.1	737.7	383.3	310.9	225.1	199.5
80°	318.7	323.2	337.7	388.9	425.7	477.0	364.4	319.8	269.7	207.3	188.3
82.5°	305.3	308.7	317.6	352.1	344.3	357.7	294.2	254.1	227.3	190.6	180.5
85°	278.6	284.2	289.7	310.9	283.1	245.2	227.3	170.5	162.7	143.8	132.6
87.5°	210.6	209.5	203.9	207.3	189.4	154.9	128.2	95.8	78.0	64.6	53.5
90°	88.0	89.2	85.8	81.3	71.3	59.1	44.6	26.7	13.4	4.5	2.2
92.5°	66.9	68.0	65.7	59.1	51.3	41.2	30.1	15.6	8.9	3.3	1.1
95°	41.2	42.3	40.1	35.7	31.2	23.4	15.6	10.0	5.6	2.2	0.0
97.5°	24.5	25.6	23.4	21.2	16.7	11.1	8.9	6.7	4.5	2.2	0.0
100°	14.5	14.5	13.4	11.1	7.8	6.7	5.6	4.5	3.3	1.1	0.0
102.5°	6.7	6.7	6.7	4.5	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°	2661.1	2661.1	2661.1	2661.1	2661.1	2661.1	2661.1	2661.1	2661.1	2661.1
2.5°	2689.0	2667.8	2671.2	2652.2	2647.8	2627.7	2663.4	2666.7	2656.7	2666.7
5°	2722.4	2696.8	2703.5	2682.3	2676.7	2648.9	2677.9	2675.6	2667.8	2677.9
7.5°	2771.5	2742.5	2745.8	2721.3	2715.8	2684.5	2711.3	2703.5	2694.6	2706.8
10°	2833.9	2806.0	2807.1	2773.7	2770.4	2734.7	2769.2	2754.8	2741.4	2759.2
12.5°	2920.8	2881.8	2878.5	2841.7	2840.6	2803.8	2839.4	2827.2	2809.4	2837.2
15°	3021.1	2968.7	2955.3	2908.5	2907.4	2868.4	2904.1	2885.1	2876.2	2909.7
17.5°	3151.5	3085.7	2984.3	2825.0	2752.5	2764.8	2890.7	2936.4	2817.2	2835.0
20°	3230.6	2911.9	2763.7	2697.9	2663.4	2465.0	2196.4	2218.7	2482.8	2608.8
22.5°	3096.9	3002.1	2947.5	2855.0	2373.6	2305.7	2321.3	2316.8	1975.8	1874.4
25°	3375.5	3286.3	3187.1	2616.6	2517.4	2488.4	2496.2	2176.4	1990.3	1998.1
27.5°	3776.6	3661.9	3033.4	2786.0	2765.9	2723.6	2569.8	2185.3	2208.7	2224.3
30°	4283.7	3875.8	3230.6	3122.5	3082.4	3036.7	2384.8	2441.6	2485.1	2533.0
32.5°	4774.0	3770.0	3608.4	3495.8	3433.4	2757.0	2690.1	2794.9	2838.3	2879.6
35°	4729.4	4223.5	4014.0	3871.4	3754.4	2975.4	3034.5	3193.8	3308.6	3307.5
37.5°	4852.0	4717.2	4475.4	4294.8	3258.5	3333.1	3456.8	3638.5	3777.8	3776.6
40°	5363.5	5217.5	4990.2	4602.4	3610.6	3784.4	3953.8	4124.3	4224.6	4232.4
42.5°	5871.7	5759.1	5554.1	4065.3	4041.9	4282.6	4459.8	4567.9	4629.1	4650.3
45°	6377.6	6271.7	5457.1	4496.5	4567.9	4806.3	4914.4	4935.6	5001.4	4999.1
47.5°	6779.9	6689.6	5020.3	5009.2	5186.3	5351.3	5316.7	5290.0	5306.7	5315.6
50°	7151.0	5823.8	5412.6	5575.3	5844.9	5865.0	5721.2	4532.2	5610.9	5592.0
52.5°	6642.8	5683.4	5778.1	6159.2	6618.3	6385.4	6104.6	3972.8	5262.1	5762.5
55°	5812.6	5908.5	6122.4	6762.1	7215.6	6939.3	6470.1	4090.9	3492.5	2842.8
57.5°	5928.5	6080.1	6486.8	7370.5	7766.1	5496.1	6038.8	2884.0	1952.4	1951.3
60°	5520.7	5750.2	6479.0	7643.6	6286.2	3521.4	2419.3	65.7	378.9	375.5
62.5°	4667.0	4993.5	6181.5	7470.8	5207.5	2861.7	2155.2	5.6	2.2	2.2
65°	3609.5	3993.9	5154.0	6469.0	4613.5	2465.0	1600.3	0.0	0.0	0.0
67.5°	2366.9	2723.6	3870.3	5373.6	3830.1	1863.2	1075.4	0.0	0.0	0.0
70°	986.2	1426.4	2404.8	3883.6	2817.2	1220.2	510.4	0.0	0.0	0.0
72.5°	285.3	434.6	1083.2	2319.0	1748.5	638.5	189.4	0.0	0.0	0.0
75°	188.3	198.4	327.6	932.7	850.3	234.0	76.9	0.0	0.0	0.0
77.5°	158.2	162.7	208.4	260.8	273.0	92.5	62.4	0.0	0.0	0.0
80°	146.0	147.1	187.2	193.9	146.0	76.9	61.3	0.0	0.0	0.0
82.5°	136.0	132.6	159.4	153.8	121.5	66.9	56.8	0.0	0.0	0.0
85°	93.6	95.8	108.1	137.1	73.5	33.4	40.1	0.0	0.0	0.0
87.5°	29.0	33.4	42.3	43.5	13.4	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)