

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: P579499

Luminaire Tested: **CTN-CA6-230-740-U-T5N-HSS-HM-EX120**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579499  
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-CA6-230-740-U-T5N-HSS-HM-EX120  
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD  
Light Source: (6) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27065 lumens  
Efficiency: N/A  
Efficacy: 118.8 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U2 - G3

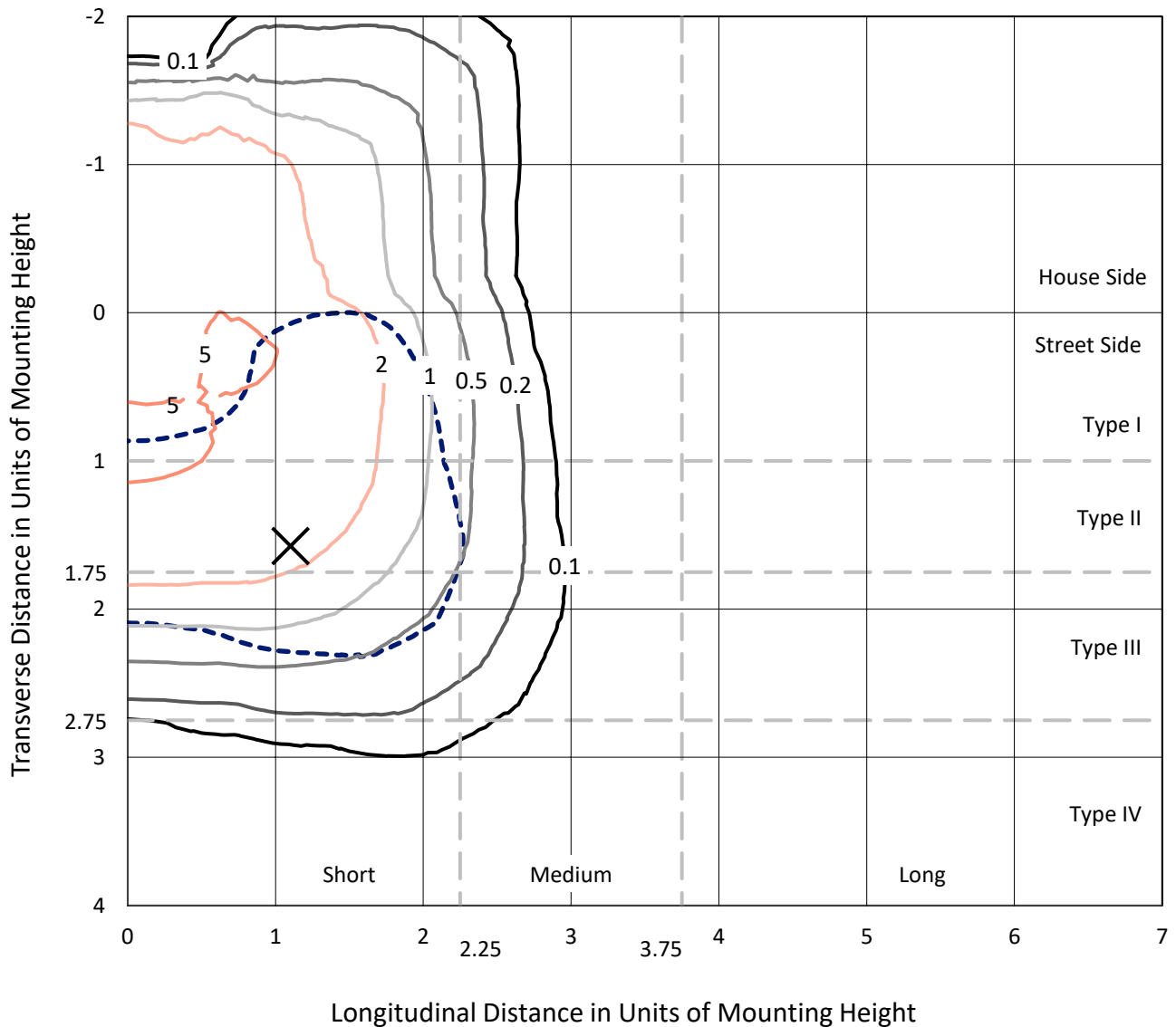
Input Watts (W): 227.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

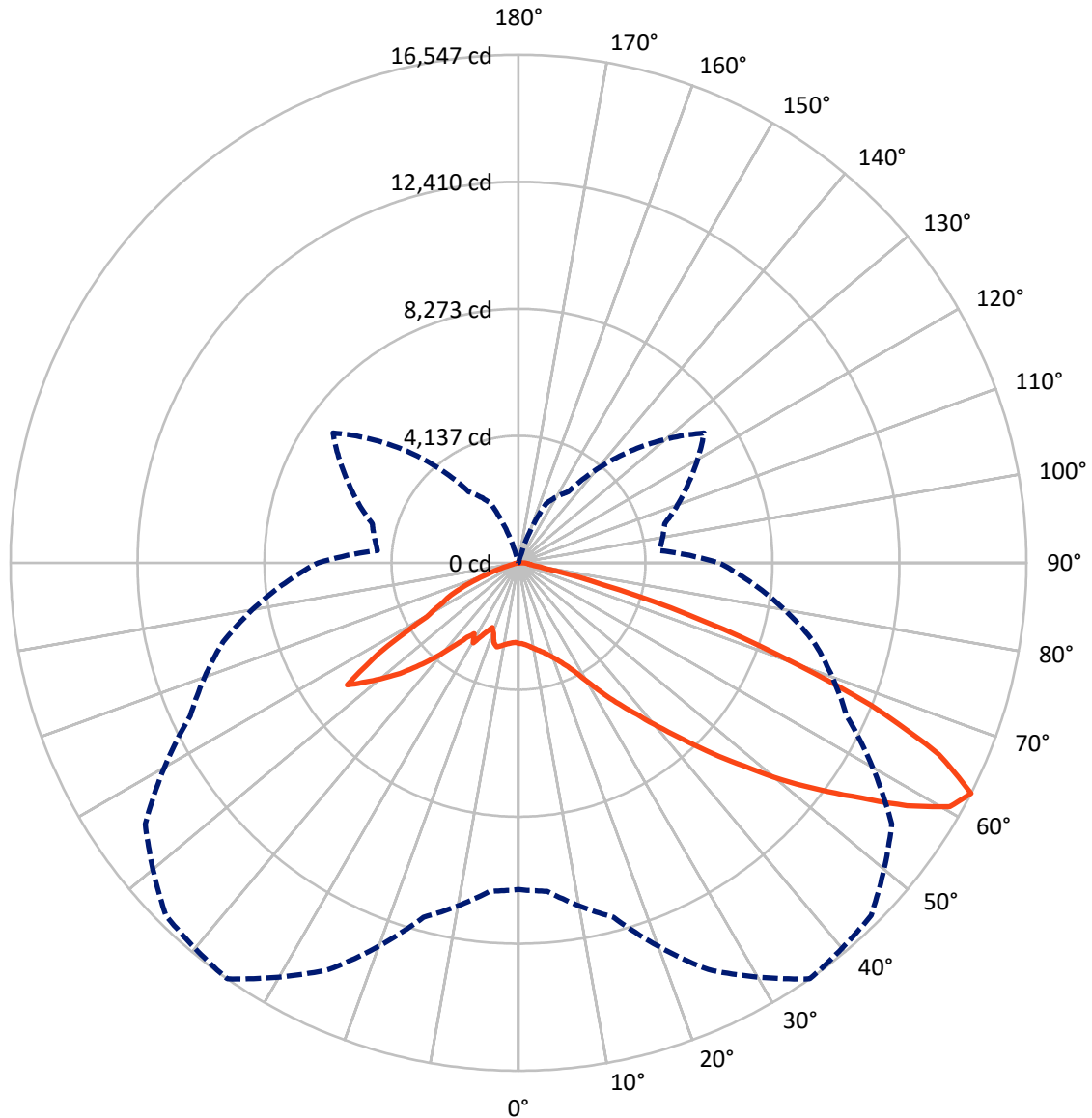
✕ Max cd  
 - - - 1/2 Max cd



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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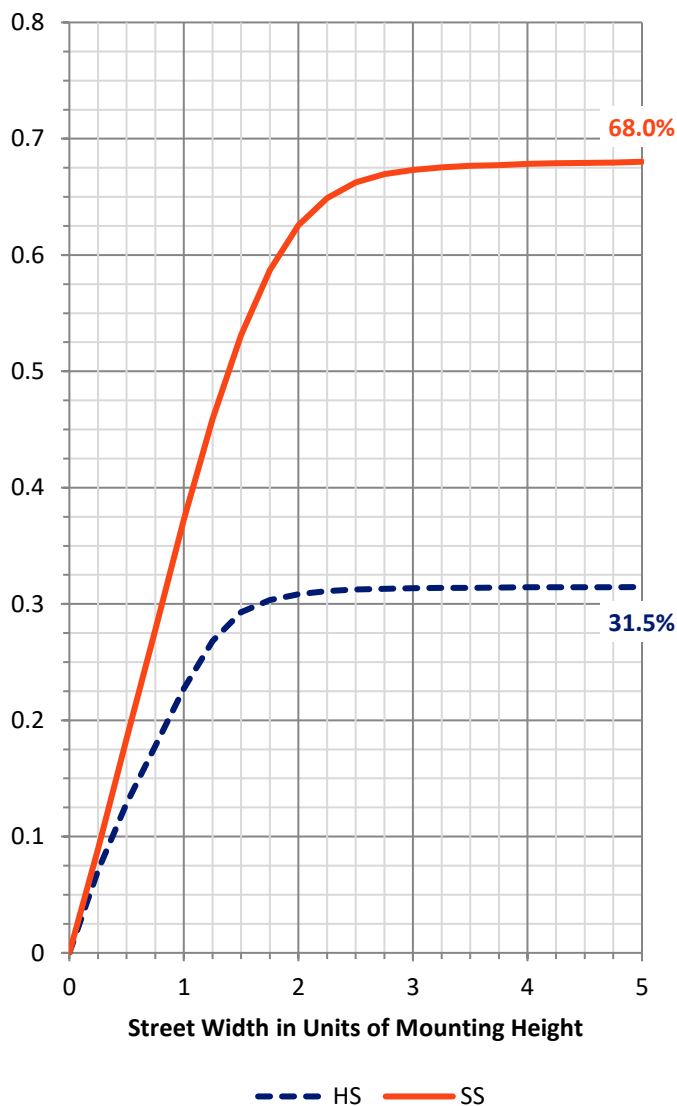
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8562.2	0.0	8562.2
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	18487.3	15.4	18502.8
	% Fixture	68.3	0.1	68.4
<b>Total</b>	Lumens	27049.5	15.5	27065.0
	% Fixture	99.9	0.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.1	1.0
10°-20°	832.9	3.1
20°-30°	1546.6	5.7
30°-40°	3049.3	11.3
40°-50°	5473.8	20.2
50°-60°	7956.8	29.4
60°-70°	6539.2	24.2
70°-80°	1243.0	4.6
80°-90°	148.8	0.5
90°-100°	14.1	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°	27049.5	99.9
0°-180°	27065.0	100.0

**Coefficient of Utilization**

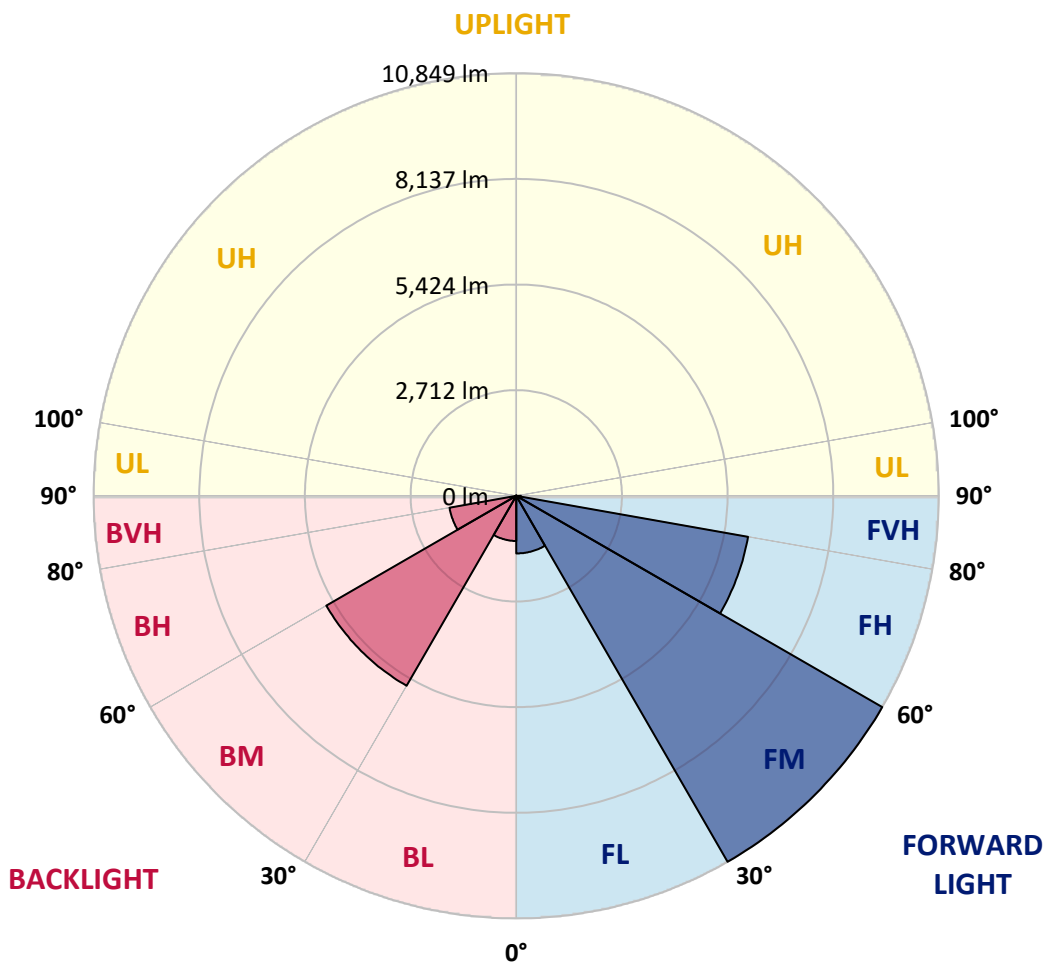


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1479.3	5.5			
FM (30°-60°)	10848.9	40.1			
FH (60°-80°)	6041.5	22.3			G3/7500
FVH (80°-90°)	117.6	0.4			G2/225
BL (0°-30°)	1159.4	4.3	B3/2500		
BM (30°-60°)	5631.0	20.8	B4/8500		
BH (60°-80°)	1740.7	6.4	B3/2500		G3/2500
BVH (80°-90°)	31.1	0.1			G1/100
UL (90°-100°)	14.1	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°	2627.1	2627.1	2627.1	2627.1	2627.1	2627.1	2627.1	2627.1	2627.1	2627.1	2627.1
2.5°	2694.2	2672.2	2674.4	2690.9	2641.4	2657.9	2634.8	2654.6	2645.8	2654.6	2660.1
5°	2748.1	2720.6	2719.5	2736.0	2696.4	2706.3	2679.9	2693.1	2681.0	2692.0	2692.0
7.5°	2814.1	2791.0	2785.5	2798.7	2763.5	2767.9	2741.5	2747.0	2732.7	2747.0	2736.0
10°	2896.6	2875.7	2866.9	2873.5	2841.6	2843.8	2815.2	2817.4	2796.5	2808.6	2799.8
12.5°	2983.5	2954.9	2950.5	2961.5	2928.5	2924.1	2899.9	2902.1	2879.0	2890.0	2883.4
15°	3073.7	3044.0	3045.1	3056.1	3023.1	3025.3	3000.0	3004.4	2981.3	2992.3	2983.5
17.5°	3193.6	3163.9	3161.7	3181.5	3154.0	3162.8	3136.4	3141.9	3125.4	3127.6	3117.7
20°	3365.3	3326.8	3319.0	3347.7	3311.3	3322.3	3308.0	3326.8	3320.1	3314.6	3306.9
22.5°	3569.9	3540.2	3524.8	3546.8	3503.9	3524.8	3532.5	3571.0	3580.9	3574.3	3453.3
25°	3843.8	3828.4	3813.0	3803.1	3751.4	3784.4	3824.0	3887.8	3929.6	3946.1	3777.8
27.5°	4213.4	4221.1	4154.0	4143.0	4084.7	4136.4	4207.9	4311.4	4396.1	4426.9	4200.2
30°	4688.7	4698.6	4607.3	4580.9	4545.7	4589.7	4722.8	4836.1	4961.5	5013.2	4710.7
32.5°	5320.2	5311.4	5177.1	5126.5	5094.6	5112.2	5252.0	5407.1	5547.9	5664.5	5292.7
35°	6091.3	6063.8	5920.8	5781.1	5654.6	5708.5	5810.8	5998.9	6212.4	6384.0	5866.9
37.5°	6986.8	6960.4	6742.6	6514.9	6265.2	6288.3	6379.6	6686.5	6961.5	7006.6	5769.0
40°	7912.0	7901.0	7695.3	7406.0	7017.6	6908.7	7029.7	7403.8	7694.2	6907.6	5996.7
42.5°	8836.1	8783.3	8667.8	8378.5	7861.4	7621.6	7784.4	8158.5	8470.9	7242.1	6524.8
45°	9767.9	9714.0	9616.1	9403.8	8865.8	8517.1	8564.4	8979.1	9261.9	7869.1	7074.8
47.5°	10595.2	10555.6	10485.2	10366.4	9886.7	9571.0	9479.7	9770.1	9962.6	8378.5	7497.3
50°	11308.1	11274.0	11301.5	11261.9	11121.1	10789.9	10488.5	10469.8	10562.2	8831.7	7885.6
52.5°	11935.2	11889.0	12006.7	12146.4	12276.2	12202.5	11473.1	11133.2	11049.6	9171.7	8146.4
55°	12453.3	12436.8	12639.2	13016.6	13510.5	13704.1	12525.9	11745.9	11485.2	9459.9	8170.6
57.5°	12763.5	12803.1	13231.1	13961.6	14927.5	15018.8	13758.0	12397.2	11869.1	9634.8	8286.1
60°	12233.3	12367.5	13137.6	14670.0	16133.2	16172.8	14643.6	12527.0	11366.4	9005.5	7668.9
62.5°	10644.7	10741.5	11952.8	14624.9	16546.8	16245.4	14841.7	11794.3	9961.5	7639.2	6522.6
65°	7521.5	7633.7	9093.6	13188.2	15054.0	15065.0	13595.2	10199.2	7962.6	5914.2	5036.3
67.5°	4536.9	4718.4	6101.2	9574.3	12395.0	12620.5	11342.2	7721.7	5698.6	3861.4	3259.6
70°	1488.5	1654.6	2785.5	5666.7	8935.1	9901.0	8518.2	5017.6	2975.8	1632.6	1314.6
72.5°	589.7	665.6	981.3	2506.1	5758.0	6610.6	5248.7	2424.7	998.9	433.4	377.3
75°	393.8	401.5	453.2	853.7	2817.4	3615.0	2530.3	705.2	370.7	270.6	237.6
77.5°	343.2	344.3	367.4	449.9	917.5	1386.1	728.3	378.4	306.9	222.2	196.9
80°	314.6	319.0	333.3	383.9	420.2	470.8	359.7	315.7	266.2	204.6	185.9
82.5°	301.4	304.7	313.5	347.6	339.9	353.1	290.4	250.8	224.4	188.1	178.2
85°	275.0	280.5	286.0	306.9	279.4	242.0	224.4	168.3	160.6	141.9	130.9
87.5°	207.9	206.8	201.3	204.6	187.0	152.9	126.5	94.6	77.0	63.8	52.8
90°	86.9	88.0	84.7	80.3	70.4	58.3	44.0	26.4	13.2	4.4	2.2
92.5°	66.0	67.1	64.9	58.3	50.6	40.7	29.7	15.4	8.8	3.3	1.1
95°	40.7	41.8	39.6	35.2	30.8	23.1	15.4	9.9	5.5	2.2	0.0
97.5°	24.2	25.3	23.1	20.9	16.5	11.0	8.8	6.6	4.4	2.2	0.0
100°	14.3	14.3	13.2	11.0	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°	2627.1	2627.1	2627.1	2627.1	2627.1	2627.1	2627.1	2627.1	2627.1	2627.1
2.5°	2654.6	2633.7	2637.0	2618.3	2613.9	2594.1	2629.3	2632.6	2622.7	2632.6
5°	2687.6	2662.3	2668.9	2648.0	2642.5	2615.0	2643.6	2641.4	2633.7	2643.6
7.5°	2736.0	2707.4	2710.7	2686.5	2681.0	2650.2	2676.6	2668.9	2660.1	2672.2
10°	2797.6	2770.1	2771.2	2738.2	2734.9	2699.7	2733.8	2719.5	2706.3	2723.9
12.5°	2883.4	2844.9	2841.6	2805.3	2804.2	2767.9	2803.1	2791.0	2773.4	2800.9
15°	2982.4	2930.7	2917.5	2871.3	2870.2	2831.7	2866.9	2848.2	2839.4	2872.4
17.5°	3111.1	3046.2	2946.1	2788.8	2717.3	2729.4	2853.7	2898.8	2781.1	2798.7
20°	3189.2	2874.6	2728.3	2663.4	2629.3	2433.5	2168.3	2190.3	2451.1	2575.4
22.5°	3057.2	2963.7	2909.8	2818.5	2343.2	2276.1	2291.5	2287.1	1950.5	1850.4
25°	3332.3	3244.2	3146.3	2583.1	2485.2	2456.6	2464.3	2148.5	1964.8	1972.5
27.5°	3728.3	3615.0	2994.5	2750.3	2730.5	2688.7	2536.9	2157.3	2180.4	2195.8
30°	4228.8	3826.2	3189.2	3082.5	3042.9	2997.8	2354.2	2410.4	2453.3	2500.6
32.5°	4712.9	3721.7	3562.2	3451.1	3389.5	2721.7	2655.7	2759.1	2802.0	2842.7
35°	4668.9	4169.4	3962.6	3821.8	3706.3	2937.3	2995.6	3152.9	3266.2	3265.1
37.5°	4789.9	4656.8	4418.1	4239.8	3216.7	3290.4	3412.6	3591.9	3729.4	3728.3
40°	5294.9	5150.7	4926.3	4543.5	3564.4	3736.0	3903.2	4071.5	4170.5	4178.2
42.5°	5796.5	5685.4	5483.0	4013.2	3990.1	4227.7	4402.7	4509.4	4569.9	4590.8
45°	6296.0	6191.5	5387.3	4439.0	4509.4	4744.8	4851.5	4872.4	4937.3	4935.1
47.5°	6693.1	6604.0	4956.0	4945.0	5119.9	5282.8	5248.7	5222.2	5238.8	5247.6
50°	7059.4	5749.2	5343.3	5503.9	5770.1	5789.9	5648.0	4474.2	5539.1	5520.4
52.5°	6557.8	5610.6	5704.1	6080.3	6533.6	6303.7	6026.4	3921.9	5194.7	5688.7
55°	5738.2	5832.8	6044.0	6675.5	7123.2	6850.4	6387.3	4038.5	3447.8	2806.4
57.5°	5852.6	6002.2	6403.8	7276.2	7666.7	5425.8	5961.5	2847.1	1927.4	1926.3
60°	5450.0	5676.6	6396.1	7545.7	6205.8	3476.4	2388.4	64.9	374.0	370.7
62.5°	4607.3	4929.6	6102.3	7375.2	5140.8	2825.1	2127.6	5.5	2.2	2.2
65°	3563.3	3942.8	5088.0	6386.2	4554.5	2433.5	1579.8	0.0	0.0	0.0
67.5°	2336.6	2688.7	3820.7	5304.8	3781.1	1839.4	1061.6	0.0	0.0	0.0
70°	973.6	1408.1	2374.0	3833.9	2781.1	1204.6	503.9	0.0	0.0	0.0
72.5°	281.6	429.0	1069.3	2289.3	1726.1	630.4	187.0	0.0	0.0	0.0
75°	185.9	195.8	323.4	920.8	839.4	231.0	75.9	0.0	0.0	0.0
77.5°	156.2	160.6	205.7	257.4	269.5	91.3	61.6	0.0	0.0	0.0
80°	144.1	145.2	184.8	191.4	144.1	75.9	60.5	0.0	0.0	0.0
82.5°	134.2	130.9	157.3	151.8	119.9	66.0	56.1	0.0	0.0	0.0
85°	92.4	94.6	106.7	135.3	72.6	33.0	39.6	0.0	0.0	0.0
87.5°	28.6	33.0	41.8	42.9	13.2	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)