

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: P579424

Luminaire Tested: **CTN-CA10-210-730-U-T5-HSS-HM-EX120**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579424  
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-CA10-210-730-U-T5-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: 25194 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U2 - G4

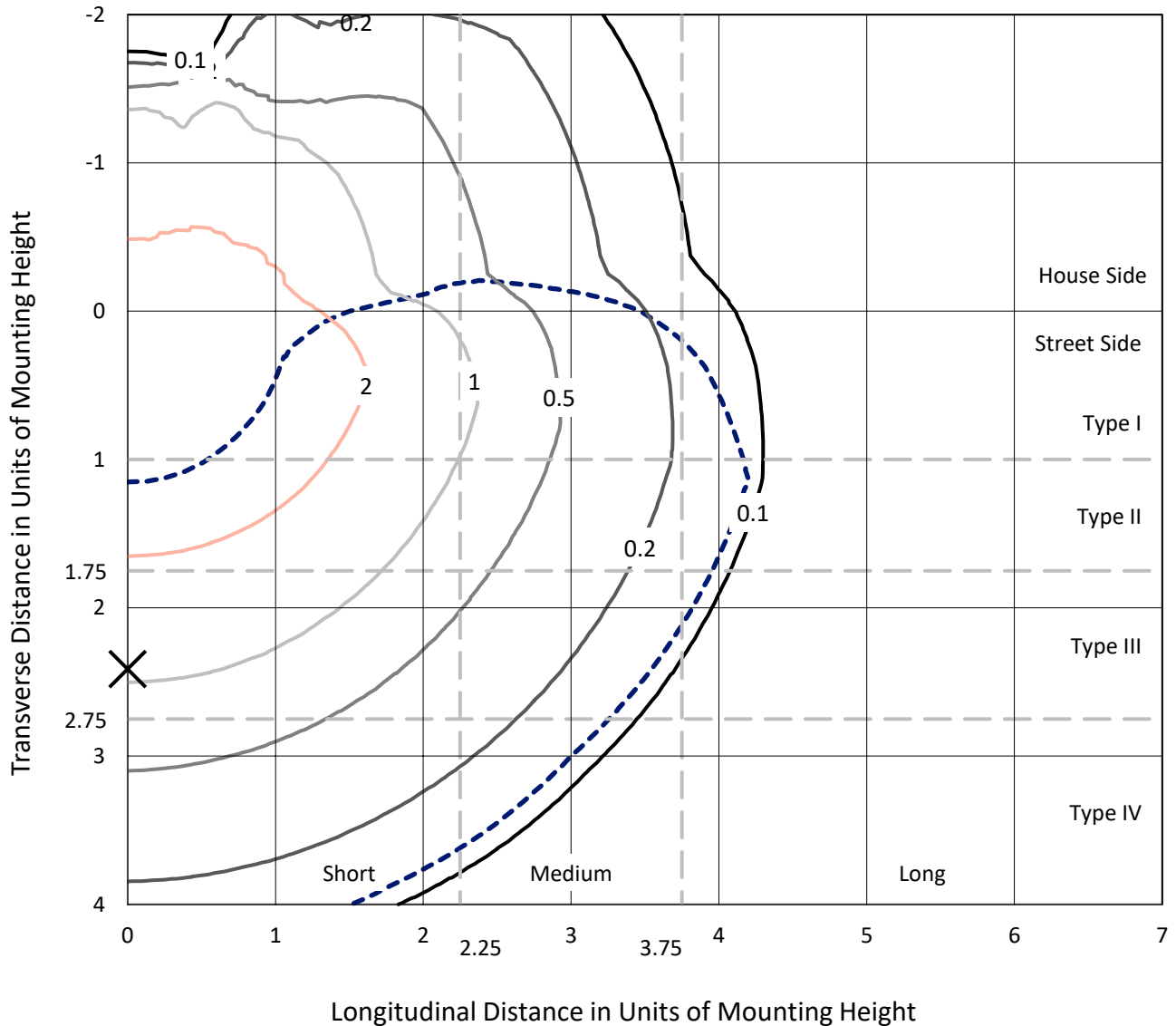
Input Watts (W): 212.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

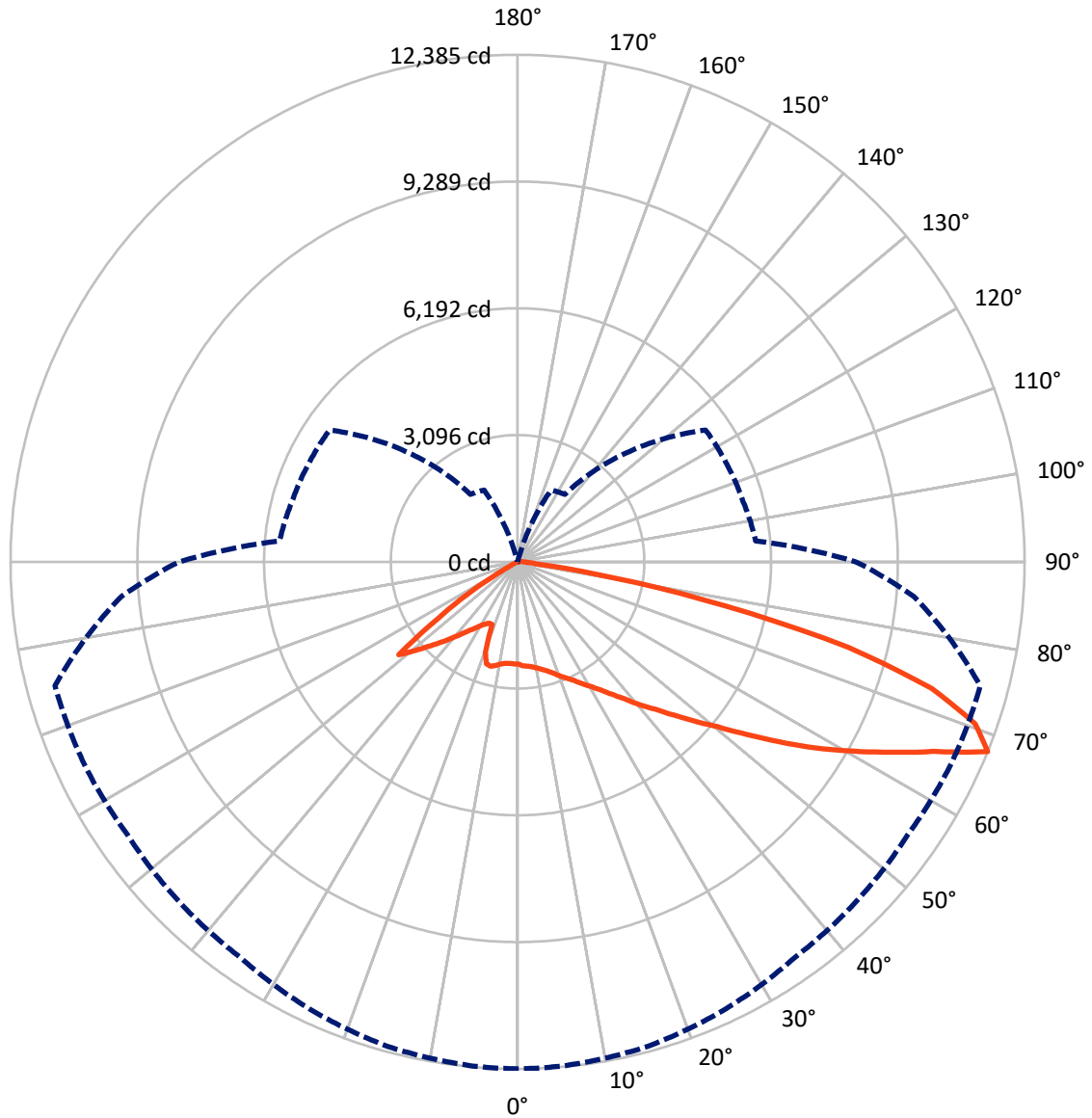
✕ Max cd  
 - - - 1/2 Max cd



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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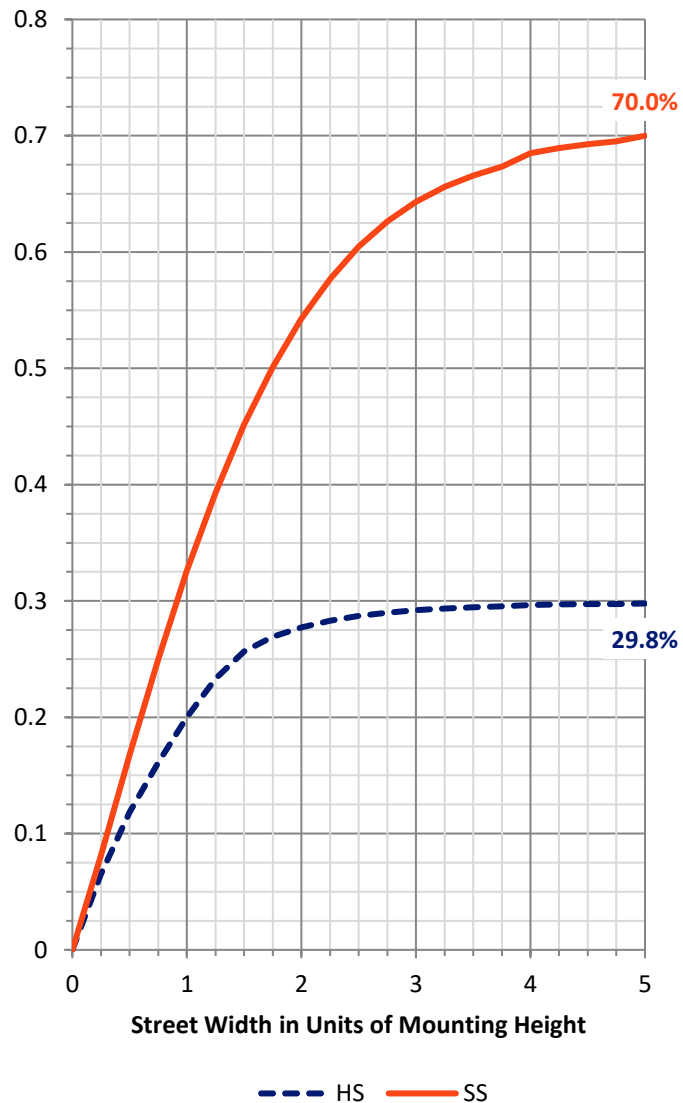
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7520.6	2.5	7523.1
	% Fixture	29.9	0.0	29.9
<b>Street Side</b>	Lumens	17642.6	28.4	17670.9
	% Fixture	70.0	0.1	70.1
<b>Total</b>	Lumens	25163.1	30.9	25194.0
	% Fixture	99.9	0.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.7	1.0
10°-20°	745.1	3.0
20°-30°	1250.4	5.0
30°-40°	2027.6	8.0
40°-50°	3313.3	13.2
50°-60°	5192.6	20.6
60°-70°	6954.4	27.6
70°-80°	5068.9	20.1
80°-90°	370.2	1.5
90°-100°	23.7	0.1
100°-110°	6.7	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°	25163.1	99.9
0°-180°	25194.0	100.0

**Coefficient of Utilization**



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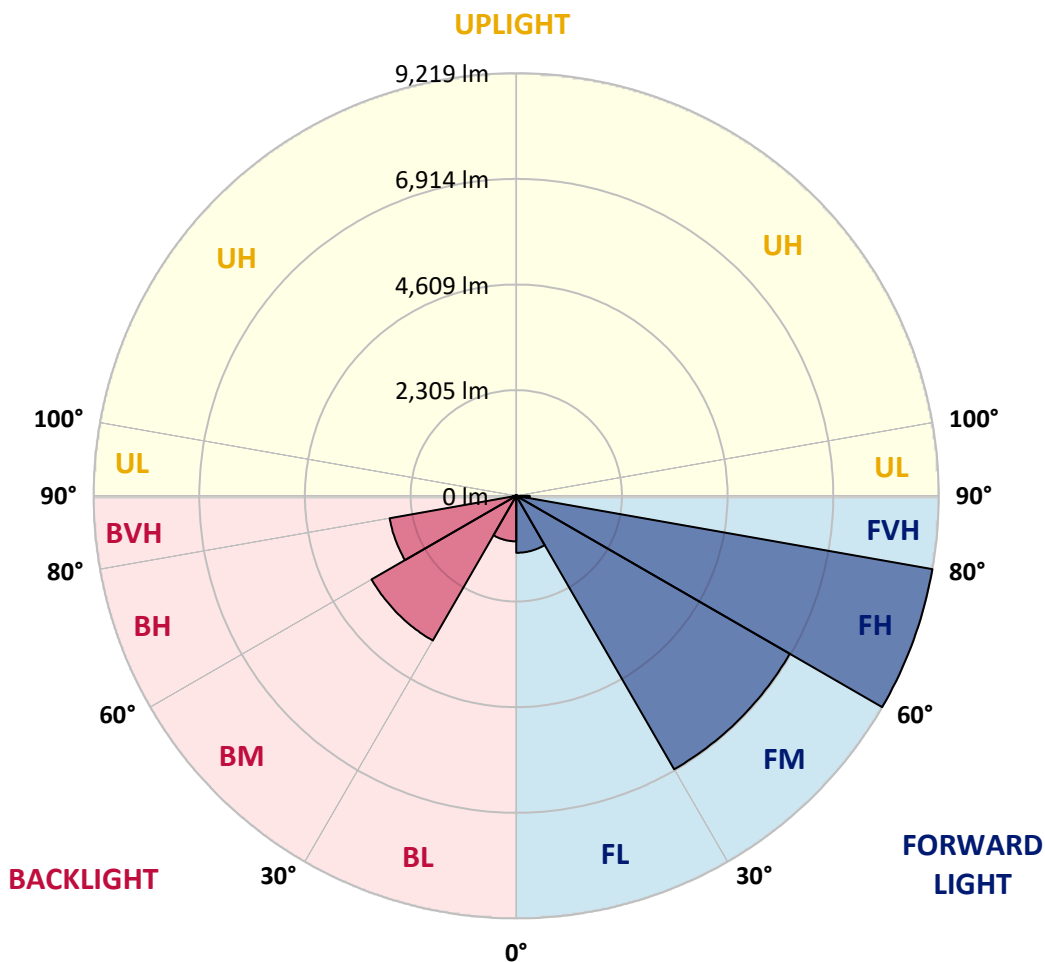
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1242.7	4.9			
FM (30°-60°)	6888.5	27.3			
FH (60°-80°)	9218.6	36.6			G4/12000
FVH (80°-90°)	292.7	1.2			G3/500
BL (0°-30°)	993.5	3.9	B2/1000		
BM (30°-60°)	3645.0	14.5	B3/5000		
BH (60°-80°)	2804.6	11.1	B4/5000		G4/5000
BVH (80°-90°)	77.4	0.3			G1/100
UL (90°-100°)	23.7	0.1		U2/50	
UH (100°-180°)	7.2	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°	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4
2.5°	2544.1	2529.3	2530.3	2544.1	2502.8	2516.6	2498.6	2512.3	2502.8	2506.0	2512.3
5°	2560.0	2544.1	2545.2	2562.1	2525.0	2536.7	2512.3	2519.7	2511.3	2515.5	2515.5
7.5°	2591.8	2573.8	2572.7	2583.3	2545.2	2549.4	2527.2	2528.2	2515.5	2524.0	2519.7
10°	2639.4	2624.6	2614.0	2620.4	2586.5	2584.3	2555.8	2556.8	2540.9	2550.5	2543.0
12.5°	2697.7	2677.6	2675.4	2677.6	2640.5	2632.0	2602.4	2604.5	2575.9	2590.7	2582.2
15°	2771.8	2740.0	2740.0	2751.7	2704.0	2697.7	2661.7	2663.8	2634.1	2645.8	2637.3
17.5°	2862.9	2832.2	2826.9	2835.4	2794.1	2785.6	2748.5	2746.4	2713.6	2716.7	2709.3
20°	2980.5	2949.8	2937.0	2958.2	2906.3	2900.0	2855.5	2851.3	2816.3	2806.8	2802.5
22.5°	3089.6	3065.2	3058.9	3082.2	3028.1	3022.8	2980.5	2975.2	2942.3	2928.6	2844.9
25°	3212.4	3207.1	3205.0	3212.4	3161.6	3151.0	3118.2	3110.8	3083.2	3066.3	2964.6
27.5°	3371.3	3369.2	3362.8	3363.9	3317.3	3307.8	3277.0	3271.7	3243.1	3224.1	3093.8
30°	3537.6	3537.6	3523.8	3531.2	3507.9	3493.1	3468.7	3449.7	3431.7	3411.6	3247.4
32.5°	3729.3	3728.2	3715.5	3737.8	3720.8	3720.8	3706.0	3685.9	3654.1	3644.6	3445.4
35°	3976.1	3960.2	3954.9	3990.9	3985.6	3995.1	3989.9	3968.7	3942.2	3919.9	3678.5
37.5°	4249.3	4245.1	4261.0	4283.2	4294.9	4320.3	4304.4	4303.4	4299.1	4243.0	3616.0
40°	4586.2	4568.2	4590.4	4602.0	4593.6	4634.9	4621.1	4632.8	4664.5	4213.3	3611.7
42.5°	4921.9	4906.0	4921.9	4979.1	4966.4	5016.2	5009.8	5055.4	5073.4	4275.8	3905.1
45°	5335.0	5317.0	5329.7	5397.5	5403.8	5464.2	5497.0	5540.5	5548.9	4680.4	4258.9
47.5°	5809.5	5779.8	5804.2	5836.0	5932.3	5989.5	6021.3	6074.3	6128.3	5167.6	4661.4
50°	6332.7	6330.6	6357.1	6412.1	6522.3	6579.5	6634.6	6689.6	6778.6	5711.0	5112.6
52.5°	6997.9	6984.1	7029.6	7081.5	7179.0	7266.9	7332.6	7389.8	7485.1	6260.7	5600.8
55°	7758.3	7710.7	7797.5	7885.4	7926.7	8030.5	8076.1	8123.7	8214.8	6839.0	5885.7
57.5°	8579.2	8567.5	8627.9	8659.7	8748.7	8813.3	8837.6	8889.5	8888.5	7440.6	6370.8
60°	9387.3	9374.6	9445.6	9464.6	9535.6	9593.9	9585.4	9632.0	9648.9	8005.1	6846.4
62.5°	10237.8	10216.6	10282.3	10286.6	10244.2	10338.5	10328.9	10368.1	10353.3	8556.9	7314.6
65°	11167.8	11183.7	11204.8	11118.0	11016.3	11097.9	11095.7	11169.9	11222.8	9328.0	7941.6
67.5°	12384.7	12364.6	12255.5	12045.8	11799.0	11716.4	11628.5	11682.5	11697.4	9711.4	8262.5
70°	11859.4	11814.9	11766.2	11552.2	11254.6	11044.9	10908.3	10965.5	11025.8	9177.6	7760.5
72.5°	10578.9	10468.7	10242.1	10053.5	9882.0	9677.5	9511.2	9610.8	9743.2	8140.7	6871.8
75°	8346.2	8243.4	8078.2	7950.0	7857.9	7855.8	7848.4	7925.7	7906.6	6610.2	5587.1
77.5°	5168.7	5383.7	5536.2	5427.1	5465.3	5386.9	5559.5	5661.2	5753.4	4738.7	3980.3
80°	2386.3	2441.4	2711.4	2641.5	2585.4	2569.5	2580.1	2757.0	2808.9	2126.8	1781.5
82.5°	544.4	522.2	541.2	502.0	499.9	476.6	479.8	479.8	462.9	391.9	328.3
85°	275.4	281.7	283.9	272.2	240.4	216.1	200.2	169.5	146.2	125.0	105.9
87.5°	184.3	189.6	192.8	176.9	158.9	138.7	126.0	102.7	81.6	50.8	39.2
90°	126.0	125.0	121.8	113.3	101.7	86.9	69.9	48.7	28.6	10.6	7.4
92.5°	90.0	87.9	86.9	79.4	71.0	59.3	45.5	30.7	15.9	7.4	4.2
95°	59.3	58.3	58.3	54.0	47.7	39.2	30.7	20.1	11.7	6.4	4.2
97.5°	41.3	40.2	40.2	38.1	33.9	28.6	21.2	13.8	9.5	6.4	4.2
100°	28.6	28.6	28.6	26.5	24.4	20.1	15.9	10.6	8.5	6.4	4.2
102.5°	19.1	19.1	20.1	19.1	16.9	13.8	10.6	8.5	7.4	5.3	4.2
105°	12.7	12.7	12.7	12.7	11.7	9.5	8.5	7.4	6.4	5.3	4.2
107.5°	8.5	8.5	8.5	8.5	7.4	6.4	6.4	6.4	5.3	5.3	4.2
110°	5.3	5.3	5.3	6.4	5.3	5.3	5.3	5.3	5.3	4.2	4.2



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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°	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4
2.5°	2507.0	2492.2	2499.6	2484.8	2478.4	2464.7	2491.1	2493.3	2491.1	2495.4
5°	2510.2	2493.3	2501.7	2484.8	2481.6	2465.7	2492.2	2492.2	2485.8	2489.0
7.5°	2517.6	2499.6	2506.0	2485.8	2485.8	2466.8	2498.6	2496.4	2491.1	2498.6
10°	2543.0	2521.9	2521.9	2502.8	2504.9	2484.8	2524.0	2524.0	2519.7	2532.4
12.5°	2582.2	2555.8	2556.8	2530.3	2534.6	2518.7	2566.3	2568.5	2568.5	2589.6
15°	2633.1	2592.8	2597.1	2568.5	2576.9	2557.9	2600.2	2598.1	2603.4	2634.1
17.5°	2695.6	2651.1	2614.0	2520.8	2465.7	2467.8	2593.9	2652.1	2584.3	2604.5
20°	2722.0	2506.0	2388.4	2354.5	2347.1	2229.5	1989.1	2026.2	2252.8	2351.3
22.5°	2544.1	2475.3	2463.6	2420.2	2099.3	2010.3	2025.1	2003.9	1781.5	1655.5
25°	2631.0	2585.4	2558.9	2176.6	2104.5	2088.7	2078.1	1876.8	1635.3	1647.0
27.5°	2753.8	2694.5	2376.8	2186.1	2199.9	2175.5	2114.1	1688.3	1680.9	1700.0
30°	2898.9	2749.6	2316.4	2298.4	2314.3	2282.5	1777.3	1760.3	1760.3	1779.4
32.5°	3076.9	2494.3	2458.3	2460.4	2449.8	2089.7	1870.5	1866.2	1878.9	1894.8
35°	3027.1	2660.6	2663.8	2681.8	2657.4	2044.2	2016.6	2000.8	2011.3	2017.7
37.5°	2929.6	2910.6	2910.6	2890.4	2268.7	2204.1	2174.5	2172.3	2171.3	2171.3
40°	3175.4	3157.4	3135.1	3100.2	2373.6	2390.5	2346.0	2340.7	2343.9	2355.6
42.5°	3455.0	3447.6	3445.4	2660.6	2591.8	2604.5	2556.8	2543.0	2543.0	2569.5
45°	3784.4	3774.8	3540.8	2843.8	2832.2	2847.0	2794.1	2761.2	2779.2	2798.3
47.5°	4162.5	4162.5	3135.1	3118.2	3118.2	3126.6	3073.7	3029.2	3047.2	3053.6
50°	4576.6	3929.5	3449.7	3433.8	3448.6	3444.4	3389.3	2976.2	3358.6	3361.8
52.5°	4692.1	3821.4	3795.0	3777.0	3795.0	3791.8	3734.6	2482.7	3632.9	3684.8
55°	4159.3	4162.5	4157.2	4130.7	4149.8	4142.4	4086.2	2710.4	2678.6	2387.3
57.5°	4497.2	4501.4	4499.3	4495.1	4512.0	3278.1	4232.4	2448.8	1495.5	1496.6
60°	4864.7	4843.5	4837.2	4827.6	4091.5	2323.8	1763.5	170.5	584.7	576.2
62.5°	5198.4	5190.9	5168.7	5163.4	3471.9	1830.2	1787.9	39.2	30.7	29.7
65°	5662.3	5596.6	5578.6	5522.5	3700.7	1948.9	1908.6	11.7	1.1	0.0
67.5°	5834.9	5701.5	5636.8	5607.2	3765.3	2010.3	1933.0	11.7	1.1	0.0
70°	5508.7	5343.5	5261.9	5229.1	3518.5	1878.9	1802.7	11.7	1.1	0.0
72.5°	4884.8	4763.0	4730.2	4625.3	3102.3	1649.1	1582.4	11.7	0.0	0.0
75°	4006.8	3962.3	3922.1	3810.9	2521.9	1310.2	1250.9	10.6	0.0	0.0
77.5°	2915.9	2850.2	2776.1	2655.3	1702.1	855.8	825.1	9.5	0.0	0.0
80°	1314.4	1260.4	1242.4	1053.9	603.7	278.6	245.7	8.5	0.0	0.0
82.5°	255.3	229.8	218.2	209.7	135.6	75.2	65.7	6.4	0.0	0.0
85°	86.9	96.4	112.3	123.9	76.3	45.5	38.1	4.2	0.0	0.0
87.5°	33.9	45.5	55.1	57.2	28.6	19.1	10.6	2.1	0.0	0.0
90°	6.4	8.5	7.4	5.3	3.2	1.1	0.0	0.0	0.0	0.0
92.5°	3.2	4.2	3.2	3.2	2.1	1.1	0.0	0.0	0.0	0.0
95°	4.2	4.2	4.2	3.2	2.1	1.1	0.0	0.0	0.0	0.0
97.5°	4.2	4.2	4.2	3.2	2.1	1.1	0.0	0.0	0.0	0.0
100°	4.2	4.2	4.2	3.2	2.1	1.1	0.0	0.0	0.0	0.0
102.5°	4.2	4.2	4.2	3.2	2.1	1.1	0.0	0.0	0.0	0.0
105°	4.2	5.3	4.2	3.2	2.1	1.1	0.0	0.0	0.0	0.0
107.5°	4.2	5.3	4.2	3.2	2.1	1.1	0.0	0.0	0.0	0.0
110°	4.2	5.3	4.2	3.2	2.1	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)