

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: P579449

Luminaire Tested: **CTN-CA6-230-730-U-T5-HSS-HM-EX180**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA6-230-730-U-T5-HSS-HM-EX180
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (6) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20863 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U2 - G3

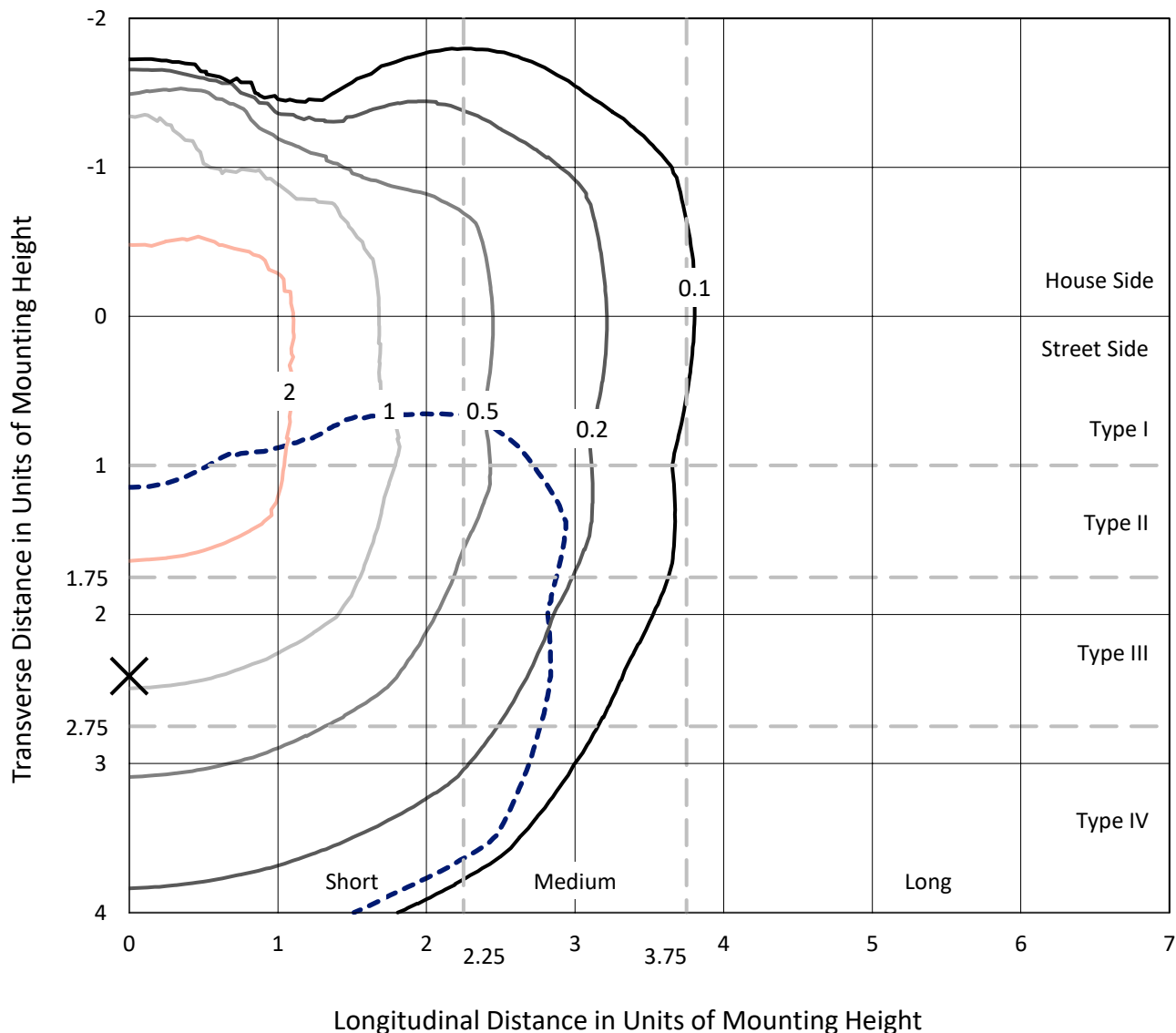
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

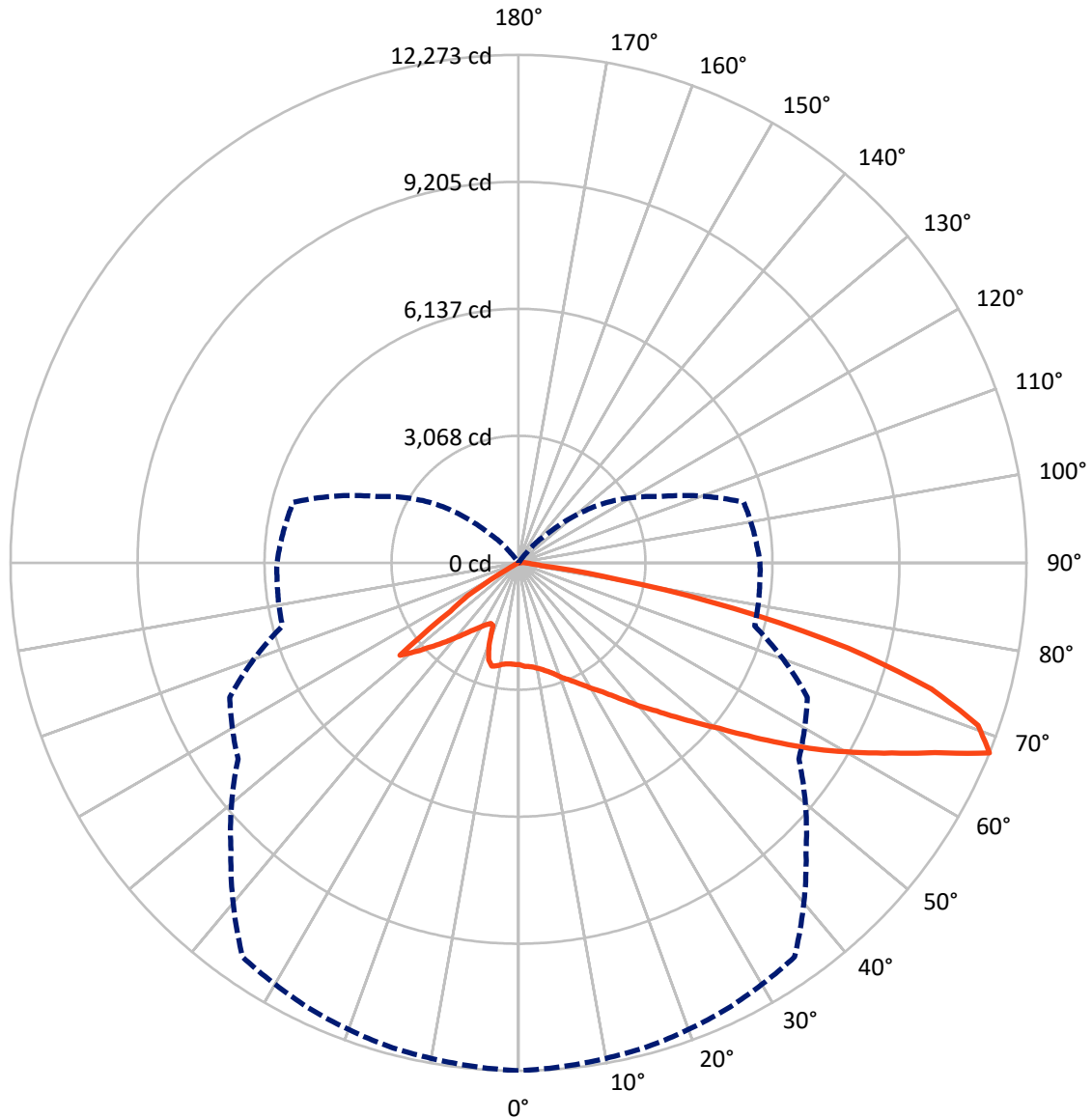
✕ Max cd
 - - - 1/2 Max cd



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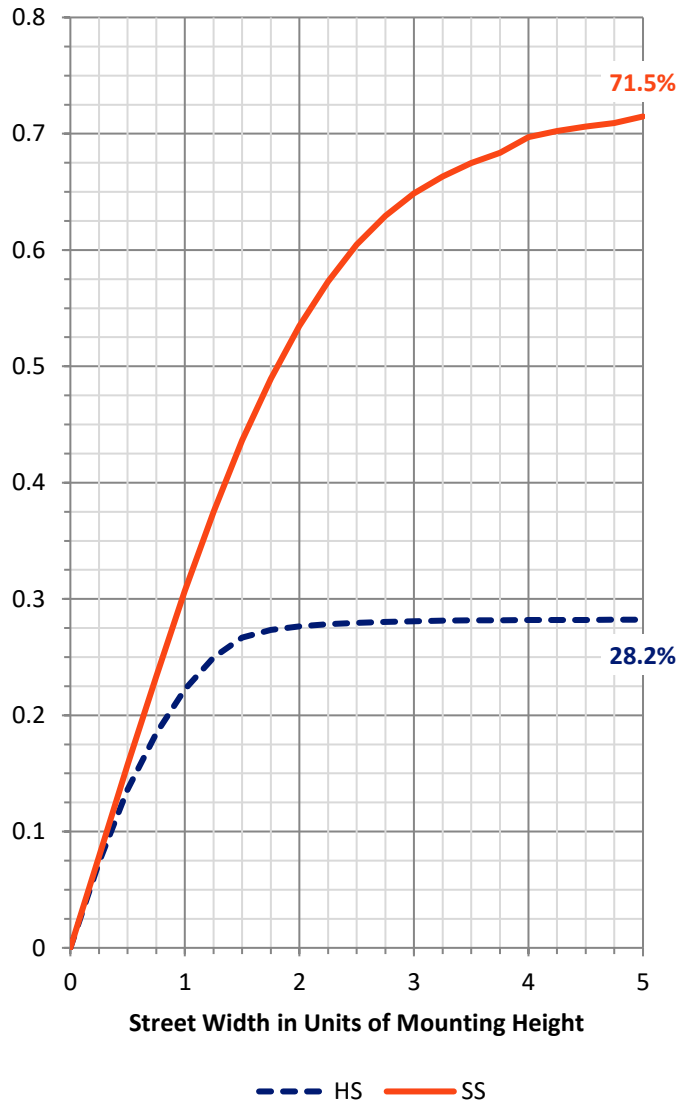
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5913.0	0.1	5913.0
	% Fixture	28.3	0.0	28.3
Street Side	Lumens	14923.4	26.6	14949.9
	% Fixture	71.5	0.1	71.7
Total	Lumens	20836.3	26.7	20863.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.0	1.1
10°-20°	729.5	3.5
20°-30°	1207.9	5.8
30°-40°	1901.4	9.1
40°-50°	2975.7	14.3
50°-60°	4296.5	20.6
60°-70°	5322.6	25.5
70°-80°	3876.3	18.6
80°-90°	289.6	1.4
90°-100°	22.7	0.1
100°-110°	3.8	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°	20836.3	99.9
0°-180°	20863.0	100.0

Coefficient of Utilization

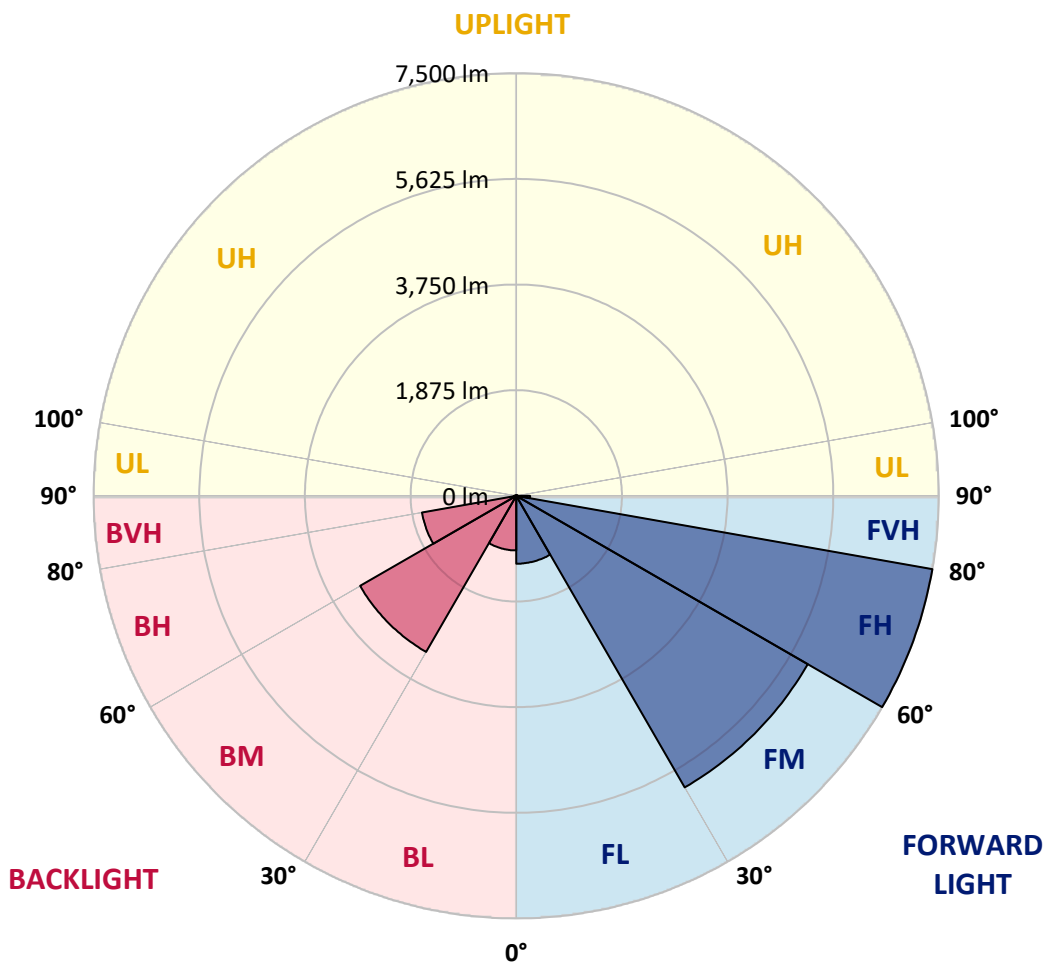


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1205.0	5.8			
FM (30°-60°)	5974.6	28.6			
FH (60°-80°)	7499.6	35.9			G3/7500
FVH (80°-90°)	244.3	1.2			G3/500
BL (0°-30°)	969.3	4.6	B2/1000		
BM (30°-60°)	3199.0	15.3	B3/5000		
BH (60°-80°)	1699.3	8.1	B3/2500		G3/2500
BVH (80°-90°)	45.3	0.2			G1/100
UL (90°-100°)	22.7	0.1		U2/50	
UH (100°-180°)	3.9	0.0		U1/10	

BUG Rating: B3-U2-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2457.1	2457.1	2457.1	2457.1	2457.1	2457.1	2457.1	2457.1	2457.1	2457.1	2457.1
2.5°	2502.1	2488.5	2488.5	2503.1	2462.4	2474.9	2458.2	2472.8	2464.4	2468.6	2473.9
5°	2516.7	2501.0	2502.1	2519.9	2483.3	2493.7	2473.9	2481.2	2473.9	2477.0	2477.0
7.5°	2543.9	2530.3	2530.3	2540.8	2504.2	2507.3	2489.5	2489.5	2480.1	2487.4	2481.2
10°	2595.1	2580.5	2573.2	2578.4	2546.0	2541.8	2517.8	2517.8	2503.1	2514.6	2505.2
12.5°	2656.8	2635.9	2633.8	2634.9	2598.3	2591.0	2563.8	2564.8	2537.6	2553.3	2541.8
15°	2731.1	2704.9	2702.8	2707.0	2668.3	2654.7	2624.4	2624.4	2594.1	2602.5	2586.8
17.5°	2826.2	2795.9	2790.7	2798.0	2759.3	2746.8	2711.2	2704.9	2671.5	2665.2	2651.6
20°	2951.7	2917.2	2906.7	2922.4	2873.3	2861.8	2818.9	2805.3	2760.3	2686.1	2588.9
22.5°	3064.6	3037.4	3031.2	3041.6	2996.6	2985.1	2943.3	2915.1	2806.3	2656.8	2566.9
25°	3193.2	3182.8	3179.6	3173.3	3132.6	3112.7	3073.0	3033.2	2786.5	2581.5	2579.5
27.5°	3352.1	3346.9	3332.3	3327.1	3282.1	3269.5	3217.3	2961.1	2715.4	2700.7	2692.4
30°	3525.7	3515.3	3500.6	3501.7	3471.3	3448.3	3323.9	2897.3	2852.4	2852.4	2830.4
32.5°	3718.1	3706.6	3692.0	3695.1	3682.5	3662.7	3288.4	3065.7	3031.2	3040.6	3013.4
35°	3956.5	3937.7	3932.4	3945.0	3946.0	3817.4	3351.1	3294.6	3267.5	3261.2	3158.7
37.5°	4234.6	4218.9	4237.8	4267.0	4233.6	3857.2	3601.0	3583.2	3556.0	3404.4	3161.8
40°	4568.2	4539.9	4562.9	4581.8	4559.8	4093.5	3863.4	3869.7	3845.7	3396.1	3127.3
42.5°	4898.6	4871.4	4891.2	4938.3	4929.9	4386.2	4183.4	4197.0	3954.4	3415.9	3395.0
45°	5307.4	5298.0	5291.7	5330.4	5362.8	4736.5	4562.9	4561.9	3877.0	3731.7	3712.9
47.5°	5770.6	5758.0	5761.2	5810.3	5859.5	5154.7	5011.5	4591.2	4076.7	4091.4	4074.6
50°	6287.1	6273.5	6314.3	6385.4	6410.5	5624.2	5448.5	4511.7	4492.9	4508.6	4480.3
52.5°	6942.7	6912.4	6975.1	7051.4	7083.8	6179.4	5472.6	4981.2	4949.8	4952.9	4863.0
55°	7688.2	7664.1	7720.6	7806.3	7854.4	6799.4	5972.4	5438.1	5419.3	4886.0	4399.8
57.5°	8498.5	8471.3	8546.6	8571.7	8584.3	7440.4	6475.3	5933.7	5062.7	4461.5	4434.3
60°	9293.2	9263.9	9359.0	9363.2	9399.8	8080.3	6953.1	6411.5	4877.7	4798.2	4775.2
62.5°	10127.5	10090.9	10174.6	10171.4	10099.3	8665.8	7426.8	6870.5	5208.1	5145.3	5109.8
65°	11053.9	11026.7	11085.3	10991.2	10847.9	9271.2	7918.2	7370.3	5592.8	5581.3	5573.0
67.5°	12273.1	12219.7	12101.6	11900.8	11626.9	9826.4	8269.5	7699.7	5905.5	5852.1	5835.4
70°	11782.7	11720.0	11630.0	11409.4	11130.3	9304.7	7704.9	7202.0	5521.7	5523.8	5484.1
72.5°	10432.8	10324.1	10239.4	9929.9	9776.2	8126.3	6713.7	6250.5	4776.2	4865.1	4846.3
75°	8229.8	8119.0	7979.9	7858.6	7841.9	6591.4	5413.0	5079.5	3808.0	3872.8	3919.9
77.5°	5334.6	5293.8	5469.5	5354.4	5458.0	4538.9	3866.6	3580.1	2624.4	2788.6	2766.6
80°	2441.4	2394.4	2676.7	2597.2	2635.9	2229.2	1889.4	1815.1	1187.8	1196.1	1221.2
82.5°	552.1	533.2	553.1	508.2	495.6	419.3	369.1	334.6	210.2	222.7	234.2
85°	302.2	302.2	298.0	277.1	237.3	195.5	154.7	119.2	64.8	71.1	70.1
87.5°	212.3	207.0	206.0	184.0	157.9	133.8	106.6	76.3	36.6	25.1	23.0
90°	145.3	143.2	135.9	122.3	105.6	86.8	64.8	37.6	15.7	7.3	5.2
92.5°	105.6	103.5	98.3	86.8	72.1	58.6	42.9	25.1	12.5	5.2	1.0
95°	70.1	69.0	65.9	56.5	47.1	37.6	27.2	15.7	10.5	4.2	1.0
97.5°	48.1	47.1	43.9	37.6	30.3	24.0	16.7	11.5	8.4	3.1	1.0
100°	32.4	31.4	29.3	24.0	18.8	14.6	10.5	8.4	6.3	3.1	1.0
102.5°	20.9	19.9	17.8	14.6	10.5	8.4	7.3	6.3	4.2	2.1	1.0
105°	12.5	11.5	9.4	7.3	6.3	5.2	5.2	4.2	3.1	1.0	1.0
107.5°	6.3	5.2	4.2	4.2	4.2	3.1	3.1	3.1	2.1	1.0	0.0
110°	1.0	1.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	1.0	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°	2457.1	2457.1	2457.1	2457.1	2457.1	2457.1	2457.1	2457.1	2457.1	2457.1
2.5°	2468.6	2451.9	2461.3	2446.7	2443.5	2427.8	2452.9	2456.1	2454.0	2458.2
5°	2471.8	2454.0	2464.4	2446.7	2446.7	2429.9	2454.0	2454.0	2447.7	2449.8
7.5°	2480.1	2462.4	2469.7	2449.8	2450.9	2431.0	2460.3	2457.1	2451.9	2459.2
10°	2504.2	2484.3	2483.3	2464.4	2468.6	2447.7	2484.3	2484.3	2479.1	2492.7
12.5°	2542.9	2513.6	2508.4	2485.4	2493.7	2475.9	2520.9	2523.0	2524.0	2546.0
15°	2583.6	2548.1	2553.3	2526.1	2523.0	2513.6	2554.4	2552.3	2551.2	2581.5
17.5°	2641.1	2473.9	2446.7	2427.8	2423.7	2400.7	2438.3	2510.4	2472.8	2451.9
20°	2550.2	2462.4	2354.7	2318.1	2310.7	2111.0	1953.2	2024.3	2120.4	2128.8
22.5°	2467.6	2436.2	2427.8	2370.3	2051.4	1984.5	1990.8	1964.7	1736.7	1637.4
25°	2570.0	2542.9	2507.3	2156.0	2080.7	2056.7	2049.3	1781.7	1601.8	1613.3
27.5°	2684.0	2653.7	2344.2	2161.2	2178.0	2144.5	1979.3	1662.5	1652.0	1671.9
30°	2826.2	2583.6	2287.7	2277.3	2293.0	2250.1	1758.7	1735.7	1732.5	1753.4
32.5°	2988.3	2491.6	2438.3	2438.3	2431.0	1967.8	1852.8	1837.1	1845.5	1867.4
35°	2927.6	2635.9	2629.6	2655.8	2480.1	2019.0	2003.3	1976.2	1982.4	1989.7
37.5°	2860.7	2873.3	2876.4	2862.8	1808.9	2165.4	2152.9	2147.6	2141.4	2143.4
40°	3109.6	3117.9	3114.8	2990.4	1952.1	2193.6	2322.2	2312.8	2311.8	2324.3
42.5°	3400.2	3423.2	3405.5	2638.0	2143.4	1844.4	2517.8	2512.5	2510.4	2536.6
45°	3727.5	3749.5	3376.2	2825.2	2347.3	1909.2	2531.4	2725.8	2741.5	2764.5
47.5°	4082.0	4077.8	3115.8	3112.7	2586.8	2089.1	2104.8	2981.0	3007.1	3015.5
50°	4489.7	3819.5	3411.7	3296.7	2857.6	2290.9	2231.3	2735.2	3312.4	3320.8
52.5°	4403.0	3778.7	3751.6	2892.1	3100.2	2513.6	2455.0	2439.3	3433.7	3635.5
55°	4103.9	4135.3	4096.6	3173.3	2273.1	2712.2	2675.7	2660.0	2554.4	2022.2
57.5°	4436.4	4445.8	4412.4	3431.6	2311.8	1690.7	2633.8	2259.5	1468.0	1460.7
60°	4781.5	4797.1	3286.3	2520.9	1481.6	565.7	134.9	142.2	405.7	356.5
62.5°	5110.8	5126.5	3478.7	2303.4	935.8	41.8	27.2	18.8	20.9	20.9
65°	5540.6	5546.8	3723.3	2438.3	972.4	10.5	3.1	0.0	0.0	0.0
67.5°	5763.3	5634.7	3785.0	2500.0	998.5	6.3	2.1	0.0	0.0	0.0
70°	5426.6	5288.6	3523.6	2343.2	930.6	5.2	1.0	0.0	0.0	0.0
72.5°	4781.5	4714.5	3162.9	2077.6	823.9	3.1	1.0	0.0	0.0	0.0
75°	3962.8	3873.9	2622.3	1731.5	681.7	2.1	0.0	0.0	0.0	0.0
77.5°	2818.9	2829.4	1827.7	1262.0	464.2	2.1	0.0	0.0	0.0	0.0
80°	1233.8	1262.0	800.9	579.3	164.2	1.0	0.0	0.0	0.0	0.0
82.5°	235.3	216.4	104.6	82.6	20.9	0.0	0.0	0.0	0.0	0.0
85°	77.4	84.7	38.7	31.4	9.4	0.0	0.0	0.0	0.0	0.0
87.5°	27.2	34.5	11.5	9.4	2.1	0.0	0.0	0.0	0.0	0.0
90°	4.2	4.2	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)