

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: P579379

Luminaire Tested: **CTN-CA10-210-722-U-T5N-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579379
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-CA10-210-722-U-T5N-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22344 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U2 - G3

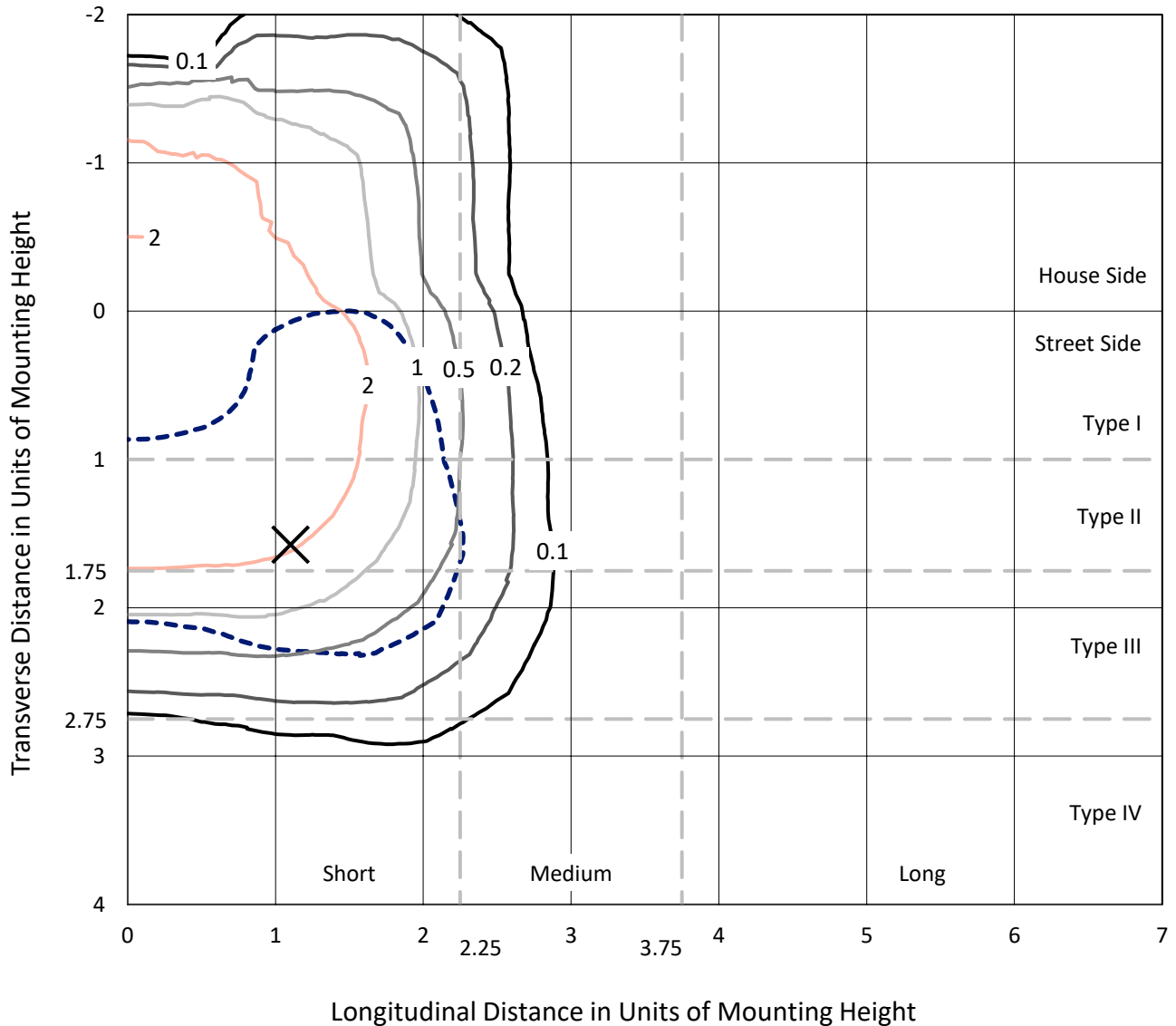
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

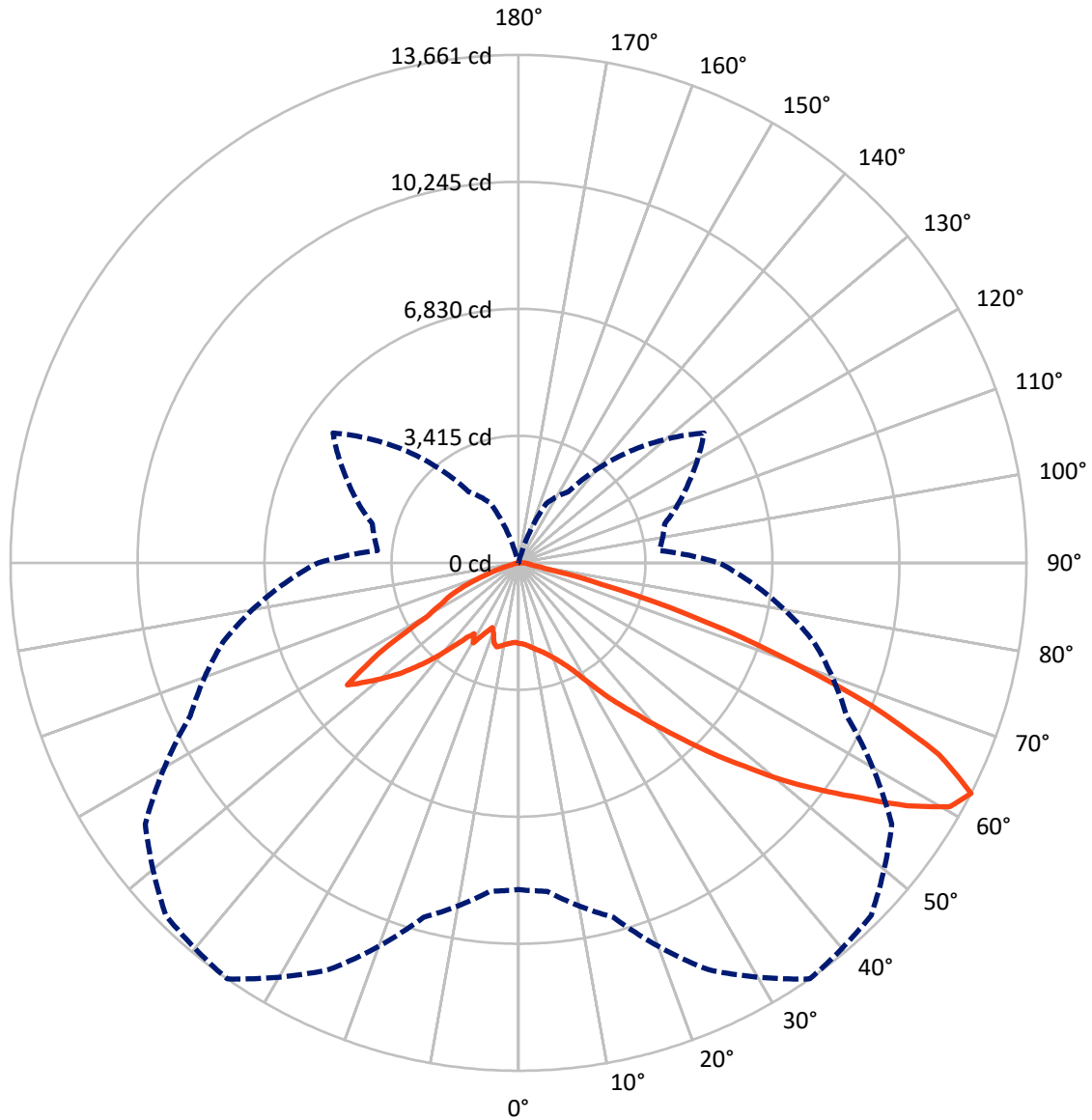
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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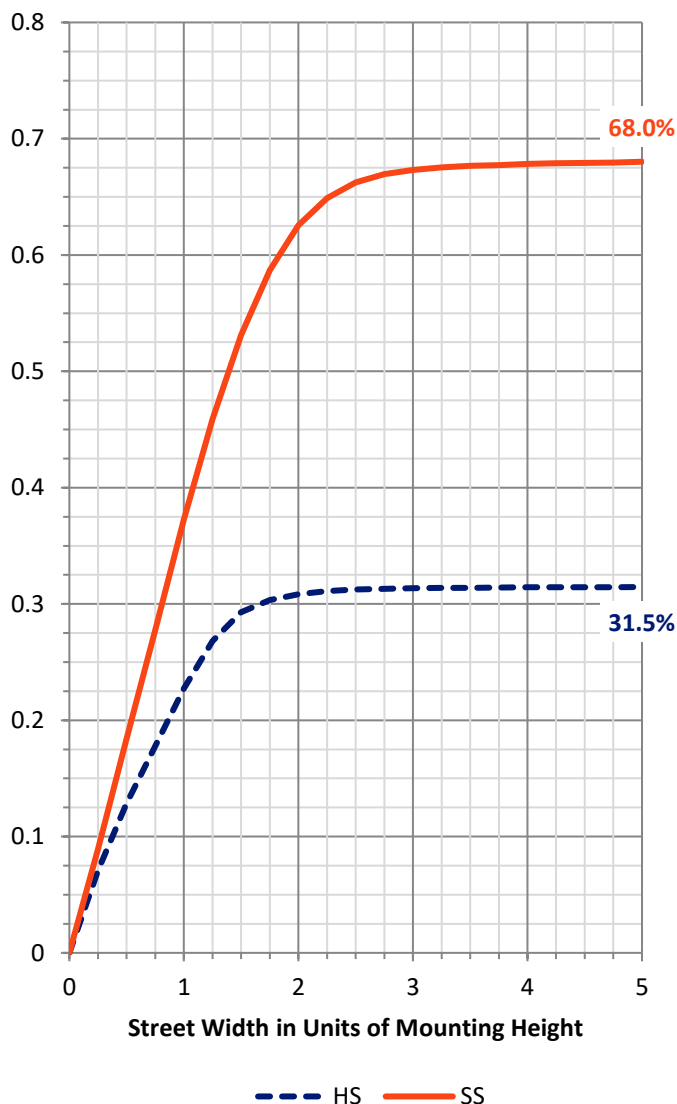
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7068.7	0.0	7068.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	15262.5	12.7	15275.3
	% Fixture	68.3	0.1	68.4
Total	Lumens	22331.2	12.8	22344.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.9	1.0
10°-20°	687.6	3.1
20°-30°	1276.8	5.7
30°-40°	2517.4	11.3
40°-50°	4519.0	20.2
50°-60°	6568.9	29.4
60°-70°	5398.6	24.2
70°-80°	1026.2	4.6
80°-90°	122.8	0.5
90°-100°	11.6	0.1
100°-110°	1.1	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°	22331.2	99.9
0°-180°	22344.0	100.0

Coefficient of Utilization

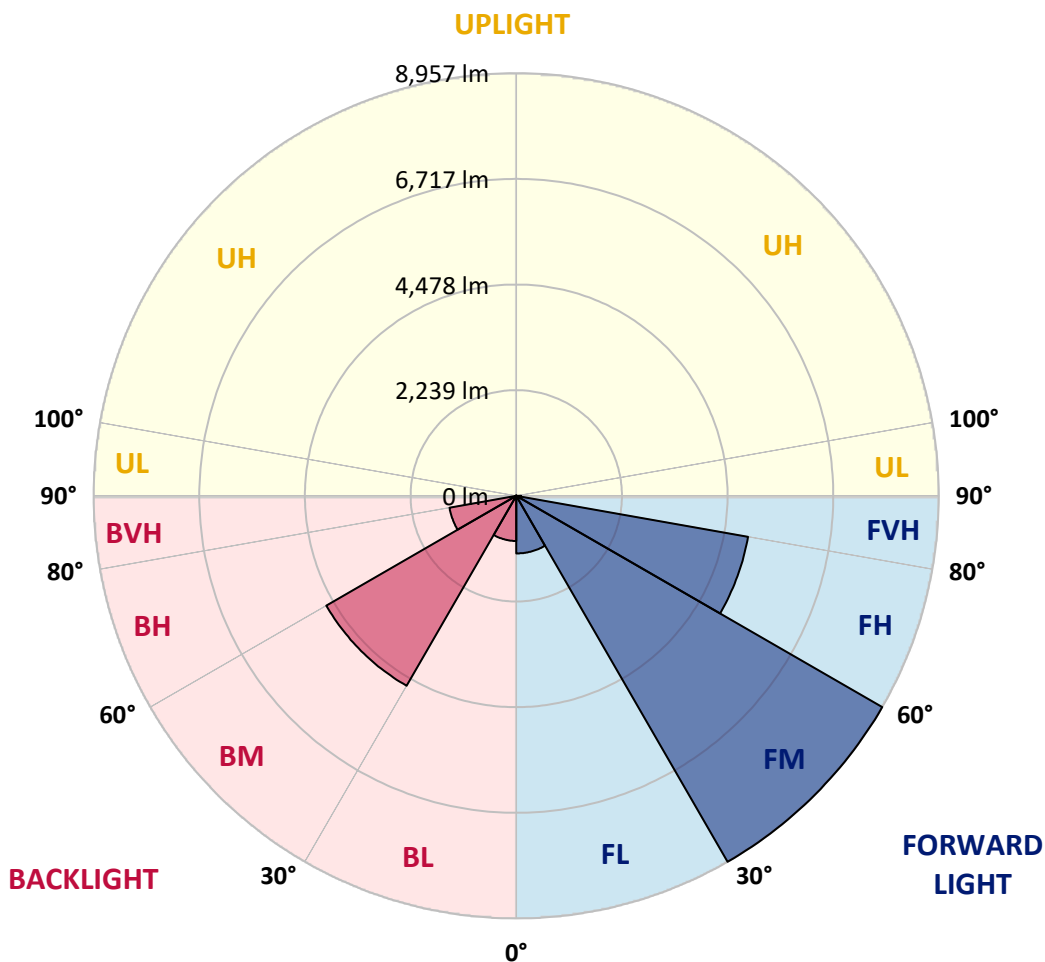


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1221.2	5.5			
FM (30°-60°)	8956.5	40.1			
FH (60°-80°)	4987.7	22.3			G2/5000
FVH (80°-90°)	97.1	0.4			G1/100
BL (0°-30°)	957.1	4.3	B2/1000		
BM (30°-60°)	4648.8	20.8	B3/5000		
BH (60°-80°)	1437.0	6.4	B3/2500		G3/2500
BVH (80°-90°)	25.7	0.1			G1/100
UL (90°-100°)	11.6	0.1		U2/50	
UH (100°-180°)	1.1	0.0		U1/10	

BUG Rating: B3-U2-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2168.8	2168.8	2168.8	2168.8	2168.8	2168.8	2168.8	2168.8	2168.8	2168.8	2168.8
2.5°	2224.2	2206.1	2207.9	2221.5	2180.6	2194.3	2175.2	2191.5	2184.3	2191.5	2196.1
5°	2268.7	2246.0	2245.1	2258.7	2226.0	2234.2	2212.4	2223.3	2213.3	2222.4	2222.4
7.5°	2323.2	2304.2	2299.6	2310.5	2281.4	2285.1	2263.3	2267.8	2256.0	2267.8	2258.7
10°	2391.3	2374.1	2366.8	2372.3	2345.9	2347.7	2324.1	2326.0	2308.7	2318.7	2311.4
12.5°	2463.1	2439.5	2435.8	2444.9	2417.7	2414.0	2394.1	2395.9	2376.8	2385.9	2380.4
15°	2537.6	2513.0	2514.0	2523.0	2495.8	2497.6	2476.7	2480.4	2461.3	2470.4	2463.1
17.5°	2636.6	2612.0	2610.2	2626.6	2603.9	2611.1	2589.3	2593.9	2580.3	2582.1	2573.9
20°	2778.2	2746.5	2740.1	2763.7	2733.7	2742.8	2731.0	2746.5	2741.0	2736.5	2730.1
22.5°	2947.2	2922.7	2909.9	2928.1	2892.7	2909.9	2916.3	2948.1	2956.3	2950.8	2850.9
25°	3173.3	3160.6	3147.9	3139.7	3097.0	3124.3	3157.0	3209.7	3244.2	3257.8	3118.8
27.5°	3478.5	3484.8	3429.4	3420.4	3372.2	3414.9	3473.9	3559.3	3629.2	3654.7	3467.6
30°	3870.8	3879.0	3803.6	3781.8	3752.8	3789.1	3899.0	3992.5	4096.1	4138.8	3889.0
32.5°	4392.2	4384.9	4274.1	4232.3	4206.0	4220.5	4335.8	4463.9	4580.2	4676.4	4369.4
35°	5028.8	5006.1	4888.0	4772.7	4668.3	4712.8	4797.2	4952.5	5128.7	5270.4	4843.5
37.5°	5768.1	5746.3	5566.5	5378.5	5172.3	5191.4	5266.8	5520.2	5747.2	5784.5	4762.7
40°	6531.9	6522.8	6353.0	6114.1	5793.5	5703.6	5803.5	6112.3	6352.1	5702.7	4950.7
42.5°	7294.8	7251.2	7155.9	6917.0	6490.1	6292.2	6426.6	6735.4	6993.3	5978.8	5386.7
45°	8064.1	8019.6	7938.8	7763.5	7319.3	7031.4	7070.5	7412.9	7646.3	6496.5	5840.8
47.5°	8747.1	8714.4	8656.2	8558.2	8162.2	7901.5	7826.1	8065.9	8224.8	6917.0	6189.5
50°	9335.6	9307.4	9330.1	9297.5	9181.2	8907.8	8659.0	8643.5	8719.8	7291.2	6510.1
52.5°	9853.3	9815.1	9912.3	10027.7	10134.8	10074.0	9471.8	9191.2	9122.2	7571.8	6725.4
55°	10281.1	10267.4	10434.5	10746.1	11153.9	11313.7	10341.0	9697.1	9481.8	7809.8	6745.4
57.5°	10537.2	10569.9	10923.2	11526.2	12323.6	12399.0	11358.2	10234.7	9798.8	7954.2	6840.7
60°	10099.4	10210.2	10846.0	12111.1	13319.1	13351.7	12089.3	10341.9	9383.7	7434.7	6331.2
62.5°	8787.9	8867.9	9867.8	12073.9	13660.5	13411.7	12252.8	9737.0	8223.9	6306.7	5384.8
65°	6209.5	6302.1	7507.4	10887.7	12428.1	12437.2	11223.8	8420.1	6573.7	4882.6	4157.8
67.5°	3745.5	3895.4	5037.0	7904.2	10232.9	10419.1	9363.8	6374.8	4704.6	3187.9	2691.1
70°	1228.8	1366.0	2299.6	4678.2	7376.6	8174.0	7032.4	4142.4	2456.7	1347.8	1085.3
72.5°	486.8	549.5	810.1	2068.9	4753.6	5457.5	4333.1	2001.7	824.7	357.8	311.5
75°	325.1	331.5	374.2	704.8	2326.0	2984.4	2088.9	582.2	306.1	223.4	196.2
77.5°	283.4	284.3	303.3	371.5	757.5	1144.4	601.2	312.4	253.4	183.5	162.6
80°	259.8	263.4	275.2	317.0	346.9	388.7	297.0	260.7	219.8	168.9	153.5
82.5°	248.9	251.6	258.8	287.0	280.6	291.5	239.8	207.1	185.3	155.3	147.1
85°	227.1	231.6	236.1	253.4	230.7	199.8	185.3	139.0	132.6	117.2	108.1
87.5°	171.7	170.7	166.2	168.9	154.4	126.2	104.4	78.1	63.6	52.7	43.6
90°	71.7	72.7	69.9	66.3	58.1	48.1	36.3	21.8	10.9	3.6	1.8
92.5°	54.5	55.4	53.6	48.1	41.8	33.6	24.5	12.7	7.3	2.7	0.9
95°	33.6	34.5	32.7	29.1	25.4	19.1	12.7	8.2	4.5	1.8	0.0
97.5°	20.0	20.9	19.1	17.3	13.6	9.1	7.3	5.4	3.6	1.8	0.0
100°	11.8	11.8	10.9	9.1	6.4	5.4	4.5	3.6	2.7	0.9	0.0
102.5°	5.4	5.4	5.4	3.6	2.7	2.7	2.7	2.7	2.7	0.9	0.0
105°	1.8	1.8	0.9	0.9	0.9	1.8	1.8	1.8	1.8	0.9	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8	1.8	0.9	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	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°	2168.8	2168.8	2168.8	2168.8	2168.8	2168.8	2168.8	2168.8	2168.8	2168.8
2.5°	2191.5	2174.3	2177.0	2161.6	2157.9	2141.6	2170.6	2173.4	2165.2	2173.4
5°	2218.8	2197.9	2203.3	2186.1	2181.5	2158.8	2182.5	2180.6	2174.3	2182.5
7.5°	2258.7	2235.1	2237.9	2217.9	2213.3	2187.9	2209.7	2203.3	2196.1	2206.1
10°	2309.6	2286.9	2287.8	2260.6	2257.8	2228.8	2256.9	2245.1	2234.2	2248.8
12.5°	2380.4	2348.7	2345.9	2316.0	2315.1	2285.1	2314.1	2304.2	2289.6	2312.3
15°	2462.2	2419.5	2408.6	2370.5	2369.5	2337.8	2366.8	2351.4	2344.1	2371.4
17.5°	2568.4	2514.9	2432.2	2302.3	2243.3	2253.3	2355.9	2393.2	2296.0	2310.5
20°	2632.9	2373.2	2252.4	2198.8	2170.6	2009.0	1790.1	1808.3	2023.5	2126.1
22.5°	2523.9	2446.7	2402.2	2326.9	1934.5	1879.1	1891.8	1888.2	1610.3	1527.6
25°	2751.0	2678.3	2597.5	2132.5	2051.7	2028.1	2034.4	1773.8	1622.1	1628.4
27.5°	3078.0	2984.4	2472.2	2270.6	2254.2	2219.7	2094.4	1781.0	1800.1	1812.8
30°	3491.2	3158.8	2632.9	2544.8	2512.1	2474.9	1943.6	1989.9	2025.3	2064.4
32.5°	3890.8	3072.5	2940.8	2849.1	2798.2	2246.9	2192.4	2277.8	2313.2	2346.8
35°	3854.5	3442.2	3271.4	3155.2	3059.8	2424.9	2473.1	2603.0	2696.5	2695.6
37.5°	3954.4	3844.5	3647.4	3500.3	2655.6	2716.5	2817.3	2965.3	3078.9	3078.0
40°	4371.3	4252.3	4067.0	3751.0	2942.6	3084.3	3222.4	3361.3	3443.1	3449.4
42.5°	4785.4	4693.7	4526.6	3313.2	3294.1	3490.3	3634.7	3722.8	3772.7	3790.0
45°	5197.7	5111.5	4447.6	3664.7	3722.8	3917.2	4005.3	4022.5	4076.1	4074.3
47.5°	5525.6	5452.0	4091.5	4082.5	4226.9	4361.3	4333.1	4311.3	4324.9	4332.2
50°	5828.1	4746.4	4411.2	4543.8	4763.6	4780.0	4662.8	3693.7	4572.9	4557.5
52.5°	5413.9	4631.9	4709.1	5019.7	5393.9	5204.1	4975.2	3237.8	4288.6	4696.4
55°	4737.3	4815.4	4989.8	5511.1	5880.7	5655.5	5273.1	3334.1	2846.4	2316.9
57.5°	4831.7	4955.3	5286.8	6007.0	6329.4	4479.3	4921.6	2350.5	1591.2	1590.3
60°	4499.3	4686.4	5280.4	6229.5	5123.3	2870.0	1971.7	53.6	308.8	306.1
62.5°	3803.6	4069.7	5037.9	6088.7	4244.1	2332.3	1756.5	4.5	1.8	1.8
65°	2941.7	3255.1	4200.5	5272.2	3760.0	2009.0	1304.2	0.0	0.0	0.0
67.5°	1929.1	2219.7	3154.2	4379.4	3121.6	1518.5	876.4	0.0	0.0	0.0
70°	803.8	1162.5	1959.9	3165.1	2296.0	994.5	416.0	0.0	0.0	0.0
72.5°	232.5	354.2	882.8	1890.0	1425.0	520.4	154.4	0.0	0.0	0.0
75°	153.5	161.7	267.0	760.2	693.0	190.7	62.7	0.0	0.0	0.0
77.5°	129.0	132.6	169.8	212.5	222.5	75.4	50.9	0.0	0.0	0.0
80°	119.0	119.9	152.6	158.0	119.0	62.7	50.0	0.0	0.0	0.0
82.5°	110.8	108.1	129.9	125.3	99.0	54.5	46.3	0.0	0.0	0.0
85°	76.3	78.1	88.1	111.7	59.9	27.2	32.7	0.0	0.0	0.0
87.5°	23.6	27.2	34.5	35.4	10.9	3.6	0.0	0.0	0.0	0.0
90°	0.9	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)