

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: P579403

Luminaire Tested: **CTN-CA6-230-722-U-T5N-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579403
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-CA6-230-722-U-T5N-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (6) 2200K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22058 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U2 - G3

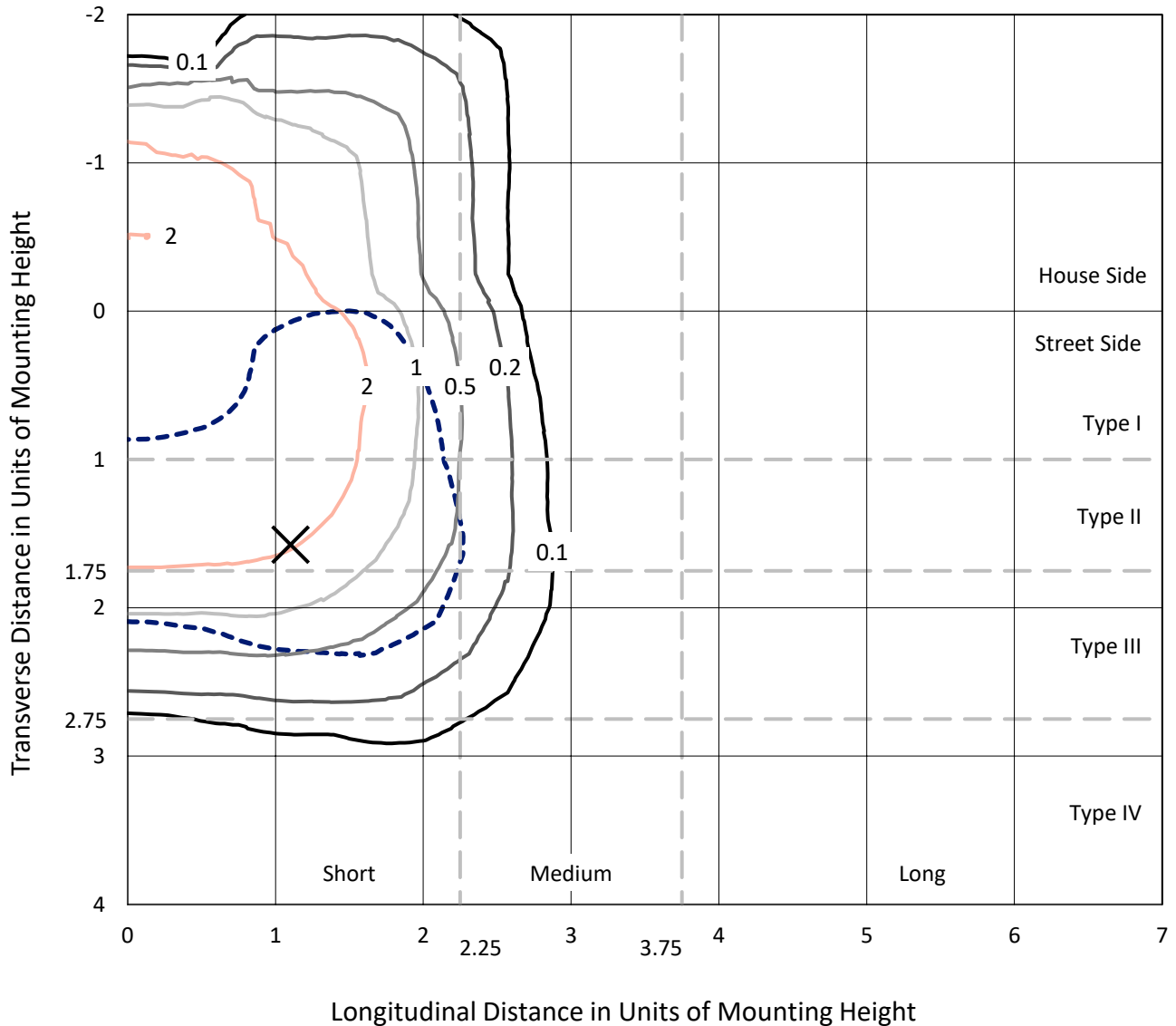
Input Watts (W): 227.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

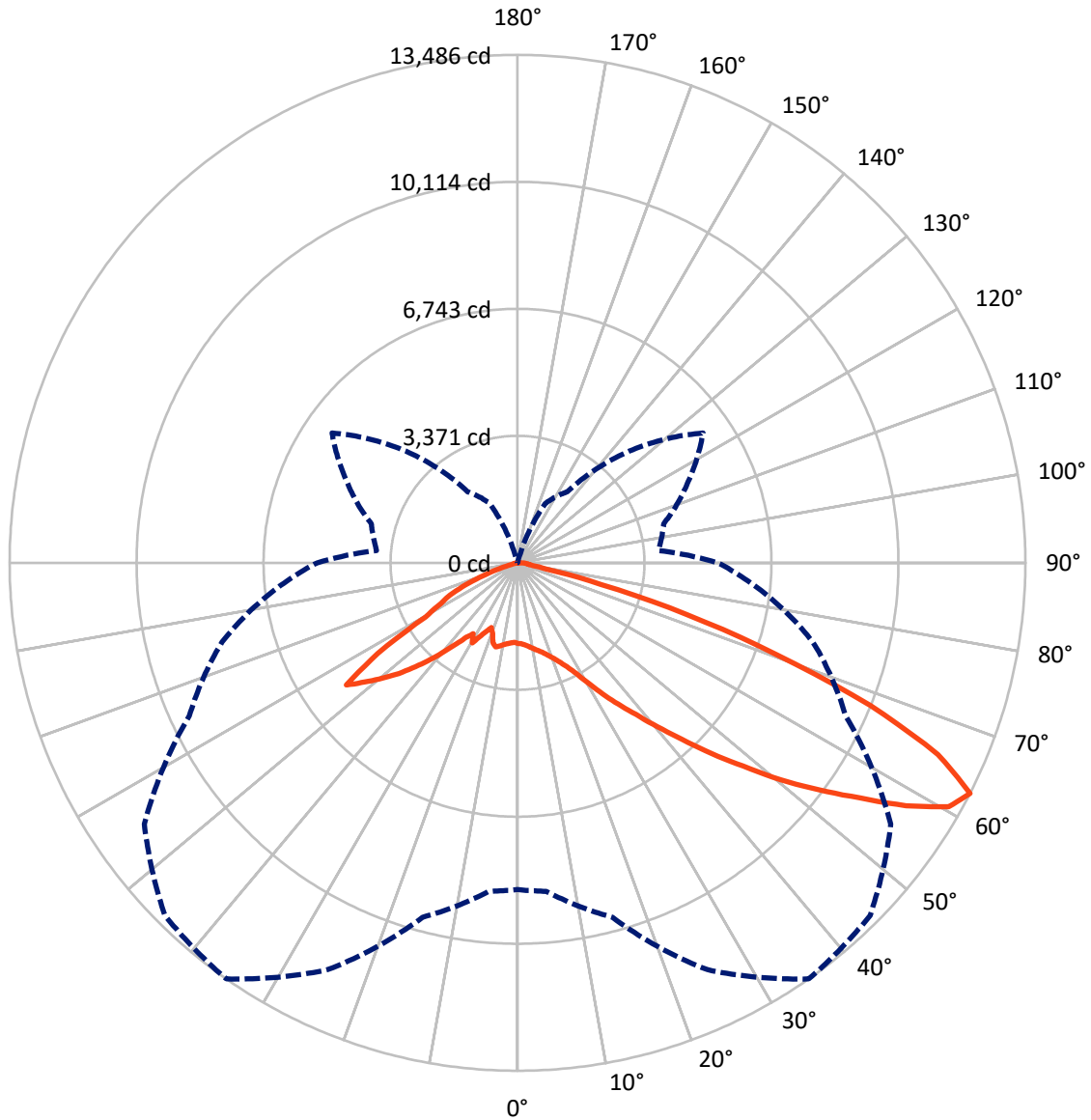
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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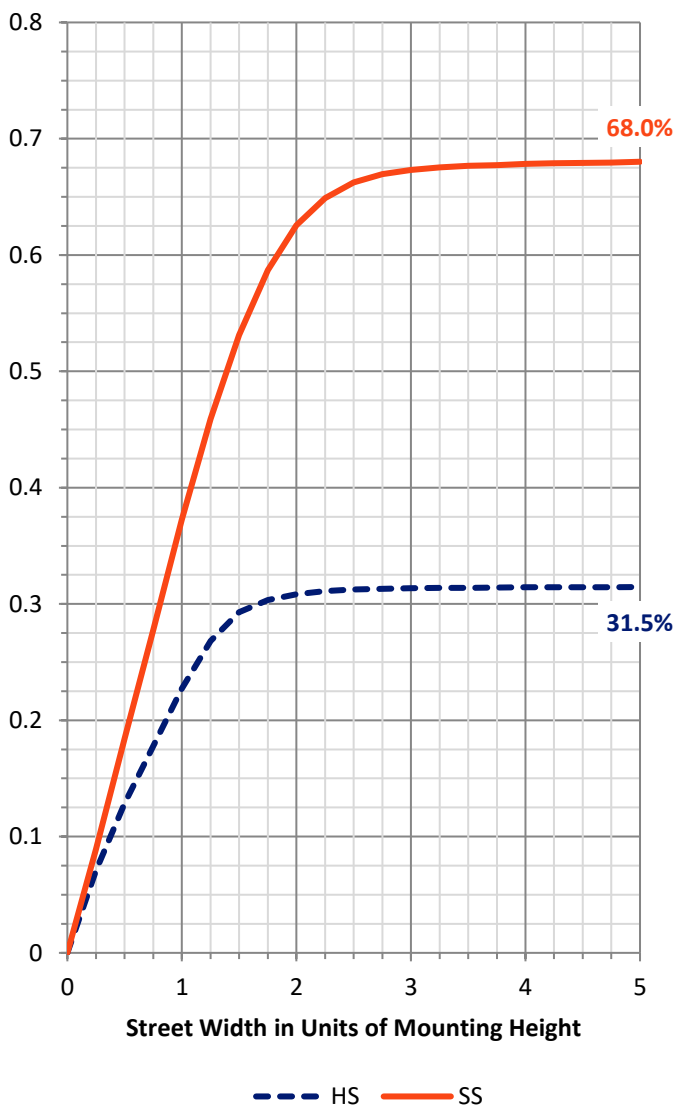
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6978.2	0.0	6978.2
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	15067.2	12.6	15079.8
	% Fixture	68.3	0.1	68.4
Total	Lumens	22045.4	12.6	22058.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.1	1.0
10°-20°	678.8	3.1
20°-30°	1260.5	5.7
30°-40°	2485.2	11.3
40°-50°	4461.2	20.2
50°-60°	6484.8	29.4
60°-70°	5329.5	24.2
70°-80°	1013.0	4.6
80°-90°	121.3	0.5
90°-100°	11.5	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°	22045.4	99.9
0°-180°	22058.0	100.0

Coefficient of Utilization



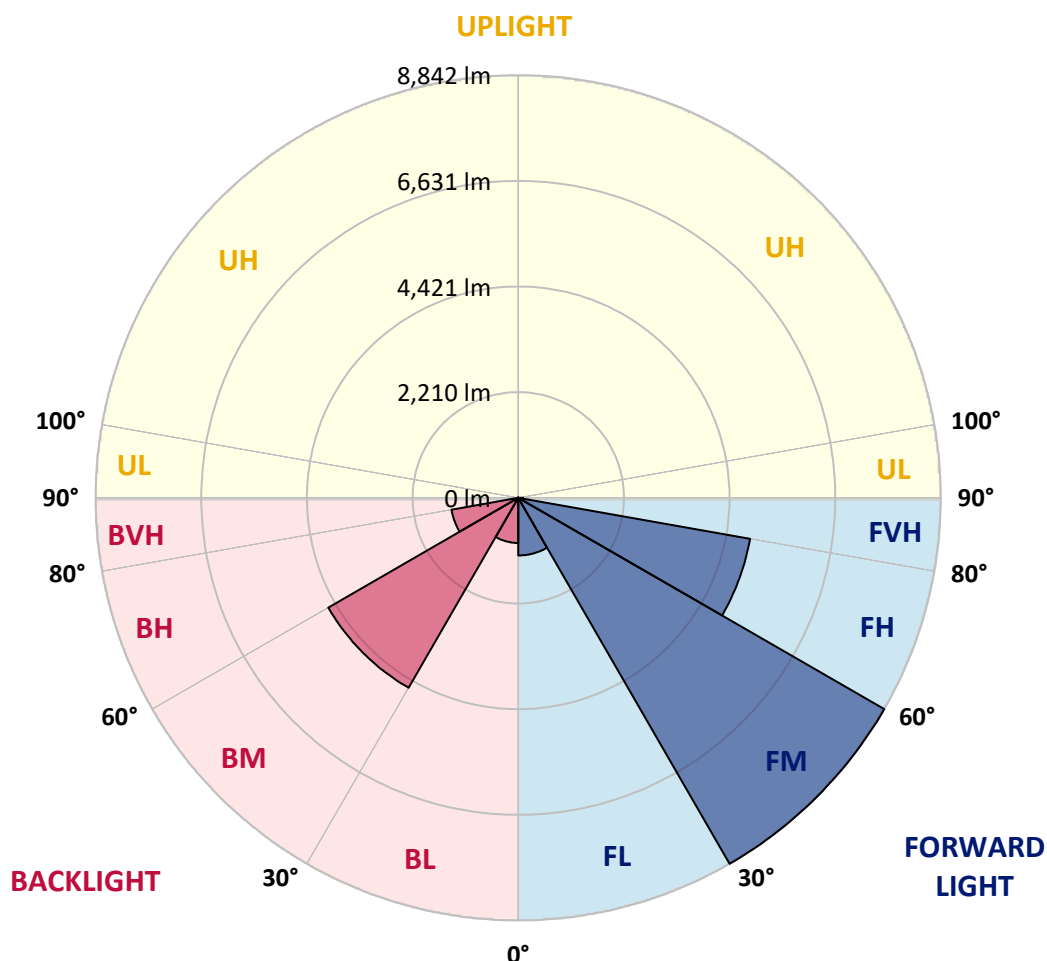
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1205.6	5.5			
FM (30°-60°)	8841.9	40.1			
FH (60°-80°)	4923.8	22.3			G2/5000
FVH (80°-90°)	95.9	0.4			G1/100
BL (0°-30°)	944.9	4.3	B2/1000		
BM (30°-60°)	4589.3	20.8	B3/5000		
BH (60°-80°)	1418.7	6.4	B3/2500		G3/2500
BVH (80°-90°)	25.4	0.1			G1/100
UL (90°-100°)	11.5	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°	2141.1	2141.1	2141.1	2141.1	2141.1	2141.1	2141.1	2141.1	2141.1	2141.1	2141.1
2.5°	2195.8	2177.8	2179.6	2193.1	2152.7	2166.2	2147.3	2163.5	2156.3	2163.5	2168.0
5°	2239.7	2217.3	2216.4	2229.8	2197.6	2205.6	2184.1	2194.9	2185.0	2194.0	2194.0
7.5°	2293.5	2274.7	2270.2	2280.9	2252.2	2255.8	2234.3	2238.8	2227.1	2238.8	2229.8
10°	2360.7	2343.7	2336.5	2341.9	2315.9	2317.7	2294.4	2296.2	2279.1	2289.0	2281.8
12.5°	2431.6	2408.3	2404.7	2413.6	2386.7	2383.2	2363.4	2365.2	2346.4	2355.4	2350.0
15°	2505.1	2480.9	2481.8	2490.7	2463.8	2465.6	2445.0	2448.6	2429.8	2438.7	2431.6
17.5°	2602.8	2578.6	2576.8	2593.0	2570.5	2577.7	2556.2	2560.7	2547.2	2549.0	2541.0
20°	2742.7	2711.3	2705.0	2728.3	2698.8	2707.7	2696.1	2711.3	2705.9	2701.4	2695.2
22.5°	2909.5	2885.2	2872.7	2890.6	2855.7	2872.7	2879.0	2910.3	2918.4	2913.0	2814.4
25°	3132.7	3120.2	3107.6	3099.5	3057.4	3084.3	3116.6	3168.6	3202.6	3216.1	3078.9
27.5°	3434.0	3440.2	3385.5	3376.6	3329.1	3371.2	3429.5	3513.8	3582.8	3607.9	3423.2
30°	3821.3	3829.4	3754.9	3733.4	3704.7	3740.6	3849.1	3941.4	4043.6	4085.8	3839.2
32.5°	4335.9	4328.8	4219.4	4178.1	4152.1	4166.5	4280.3	4406.8	4521.5	4616.6	4313.5
35°	4964.4	4942.0	4825.5	4711.6	4608.5	4652.4	4735.8	4889.1	5063.1	5202.9	4781.5
37.5°	5694.3	5672.8	5495.2	5309.6	5106.1	5124.9	5199.4	5449.5	5673.7	5710.4	4701.7
40°	6448.3	6439.3	6271.7	6035.9	5719.4	5630.6	5729.2	6034.1	6270.8	5629.7	4887.3
42.5°	7201.5	7158.4	7064.3	6828.5	6407.1	6211.6	6344.3	6649.2	6903.8	5902.3	5317.7
45°	7960.9	7916.9	7837.1	7664.1	7225.7	6941.4	6980.0	7318.0	7548.4	6413.3	5766.0
47.5°	8635.1	8602.8	8545.5	8448.6	8057.7	7800.4	7726.0	7962.7	8119.6	6828.5	6110.3
50°	9216.1	9188.3	9210.7	9178.4	9063.7	8793.8	8548.1	8532.9	8608.2	7197.9	6426.8
52.5°	9727.2	9689.5	9785.4	9899.3	10005.1	9945.0	9350.6	9073.5	9005.4	7474.9	6639.3
55°	10149.5	10136.0	10301.0	10608.5	11011.1	11168.9	10208.6	9572.9	9360.5	7709.8	6659.0
57.5°	10402.3	10434.6	10783.4	11378.7	12165.9	12240.3	11212.8	10103.7	9673.4	7852.4	6753.2
60°	9970.1	10079.5	10707.1	11956.1	13148.6	13180.8	11934.6	10209.5	9263.6	7339.5	6250.2
62.5°	8675.5	8754.4	9741.5	11919.3	13485.7	13240.0	12096.0	9612.4	8118.7	6226.0	5315.9
65°	6130.0	6221.5	7411.3	10748.4	12269.0	12278.0	11080.1	8312.3	6489.6	4820.1	4104.6
67.5°	3697.6	3845.5	4972.5	7803.1	10101.9	10285.7	9243.9	6293.2	4644.4	3147.0	2656.6
70°	1213.1	1348.5	2270.2	4618.4	7282.1	8069.4	6942.3	4089.4	2425.3	1330.5	1071.4
72.5°	480.6	542.4	799.8	2042.4	4692.8	5387.6	4277.7	1976.1	814.1	353.3	307.5
75°	321.0	327.3	369.4	695.8	2296.2	2946.2	2062.2	574.7	302.2	220.6	193.7
77.5°	279.7	280.6	299.5	366.7	747.8	1129.7	593.5	308.4	250.2	181.1	160.5
80°	256.4	260.0	271.7	312.9	342.5	383.7	293.2	257.3	217.0	166.8	151.5
82.5°	245.7	248.4	255.5	283.3	277.0	287.8	236.7	204.4	182.9	153.3	145.2
85°	224.1	228.6	233.1	250.2	227.7	197.3	182.9	137.2	130.9	115.7	106.7
87.5°	169.5	168.6	164.1	166.8	152.4	124.6	103.1	77.1	62.8	52.0	43.0
90°	70.8	71.7	69.0	65.5	57.4	47.5	35.9	21.5	10.8	3.6	1.8
92.5°	53.8	54.7	52.9	47.5	41.2	33.2	24.2	12.6	7.2	2.7	0.9
95°	33.2	34.1	32.3	28.7	25.1	18.8	12.6	8.1	4.5	1.8	0.0
97.5°	19.7	20.6	18.8	17.0	13.4	9.0	7.2	5.4	3.6	1.8	0.0
100°	11.7	11.7	10.8	9.0	6.3	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°	2141.1	2141.1	2141.1	2141.1	2141.1	2141.1	2141.1	2141.1	2141.1	2141.1
2.5°	2163.5	2146.4	2149.1	2133.9	2130.3	2114.2	2142.9	2145.6	2137.5	2145.6
5°	2190.4	2169.8	2175.1	2158.1	2153.6	2131.2	2154.5	2152.7	2146.4	2154.5
7.5°	2229.8	2206.5	2209.2	2189.5	2185.0	2159.9	2181.4	2175.1	2168.0	2177.8
10°	2280.0	2257.6	2258.5	2231.6	2228.9	2200.2	2228.0	2216.4	2205.6	2220.0
12.5°	2350.0	2318.6	2315.9	2286.3	2285.4	2255.8	2284.5	2274.7	2260.3	2282.7
15°	2430.7	2388.5	2377.8	2340.1	2339.2	2307.8	2336.5	2321.3	2314.1	2341.0
17.5°	2535.6	2482.7	2401.1	2272.9	2214.6	2224.5	2325.8	2362.5	2266.6	2280.9
20°	2599.2	2342.8	2223.6	2170.7	2142.9	1983.3	1767.2	1785.1	1997.6	2098.9
22.5°	2491.6	2415.4	2371.5	2297.1	1909.7	1855.1	1867.6	1864.0	1589.7	1508.1
25°	2715.8	2644.1	2564.3	2105.2	2025.4	2002.1	2008.4	1751.1	1601.3	1607.6
27.5°	3038.6	2946.2	2440.5	2241.5	2225.3	2191.3	2067.5	1758.2	1777.1	1789.6
30°	3446.5	3118.4	2599.2	2512.3	2480.0	2443.2	1918.7	1964.4	1999.4	2038.0
32.5°	3841.0	3033.2	2903.2	2812.6	2762.4	2218.2	2164.4	2248.7	2283.6	2316.8
35°	3805.2	3398.1	3229.5	3114.8	3020.6	2393.9	2441.4	2569.6	2662.0	2661.1
37.5°	3903.8	3795.3	3600.7	3455.5	2621.6	2681.7	2781.2	2927.4	3039.5	3038.6
40°	4315.3	4197.9	4015.0	3702.9	2905.0	3044.8	3181.1	3318.3	3399.0	3405.3
42.5°	4724.2	4633.6	4468.6	3270.8	3252.0	3445.6	3588.2	3675.1	3724.5	3741.5
45°	5131.2	5046.0	4390.6	3617.8	3675.1	3867.0	3954.0	3971.0	4023.9	4022.1
47.5°	5454.9	5382.3	4039.2	4030.2	4172.8	4305.5	4277.7	4256.1	4269.6	4276.8
50°	5753.5	4685.6	4354.8	4485.7	4702.6	4718.8	4603.1	3646.5	4514.4	4499.1
52.5°	5344.6	4572.6	4648.8	4955.5	5324.9	5137.5	4911.5	3196.4	4233.7	4636.3
55°	4676.6	4753.7	4925.9	5440.5	5805.5	5583.1	5205.6	3291.4	2809.9	2287.2
57.5°	4769.9	4891.8	5219.1	5930.1	6248.4	4422.0	4858.7	2320.4	1570.8	1569.9
60°	4441.7	4626.4	5212.8	6149.7	5057.7	2833.2	1946.5	52.9	304.8	302.2
62.5°	3754.9	4017.6	4973.4	6010.8	4189.8	2302.5	1734.0	4.5	1.8	1.8
65°	2904.1	3213.4	4146.8	5204.7	3711.9	1983.3	1287.5	0.0	0.0	0.0
67.5°	1904.4	2191.3	3113.9	4323.4	3081.6	1499.1	865.2	0.0	0.0	0.0
70°	793.5	1147.6	1934.9	3124.6	2266.6	981.8	410.6	0.0	0.0	0.0
72.5°	229.5	349.7	871.5	1865.8	1406.8	513.7	152.4	0.0	0.0	0.0
75°	151.5	159.6	263.6	750.5	684.1	188.3	61.9	0.0	0.0	0.0
77.5°	127.3	130.9	167.7	209.8	219.7	74.4	50.2	0.0	0.0	0.0
80°	117.5	118.4	150.6	156.0	117.5	61.9	49.3	0.0	0.0	0.0
82.5°	109.4	106.7	128.2	123.7	97.7	53.8	45.7	0.0	0.0	0.0
85°	75.3	77.1	87.0	110.3	59.2	26.9	32.3	0.0	0.0	0.0
87.5°	23.3	26.9	34.1	35.0	10.8	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)