

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: P579380

Luminaire Tested: **CTN-CA10-210-722-U-T5N-HSS-HM-EX180**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579380  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-6)  
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-EX180  
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: 19267 lumens  
Efficiency: N/A  
Efficacy: 90.5 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U2 - G2

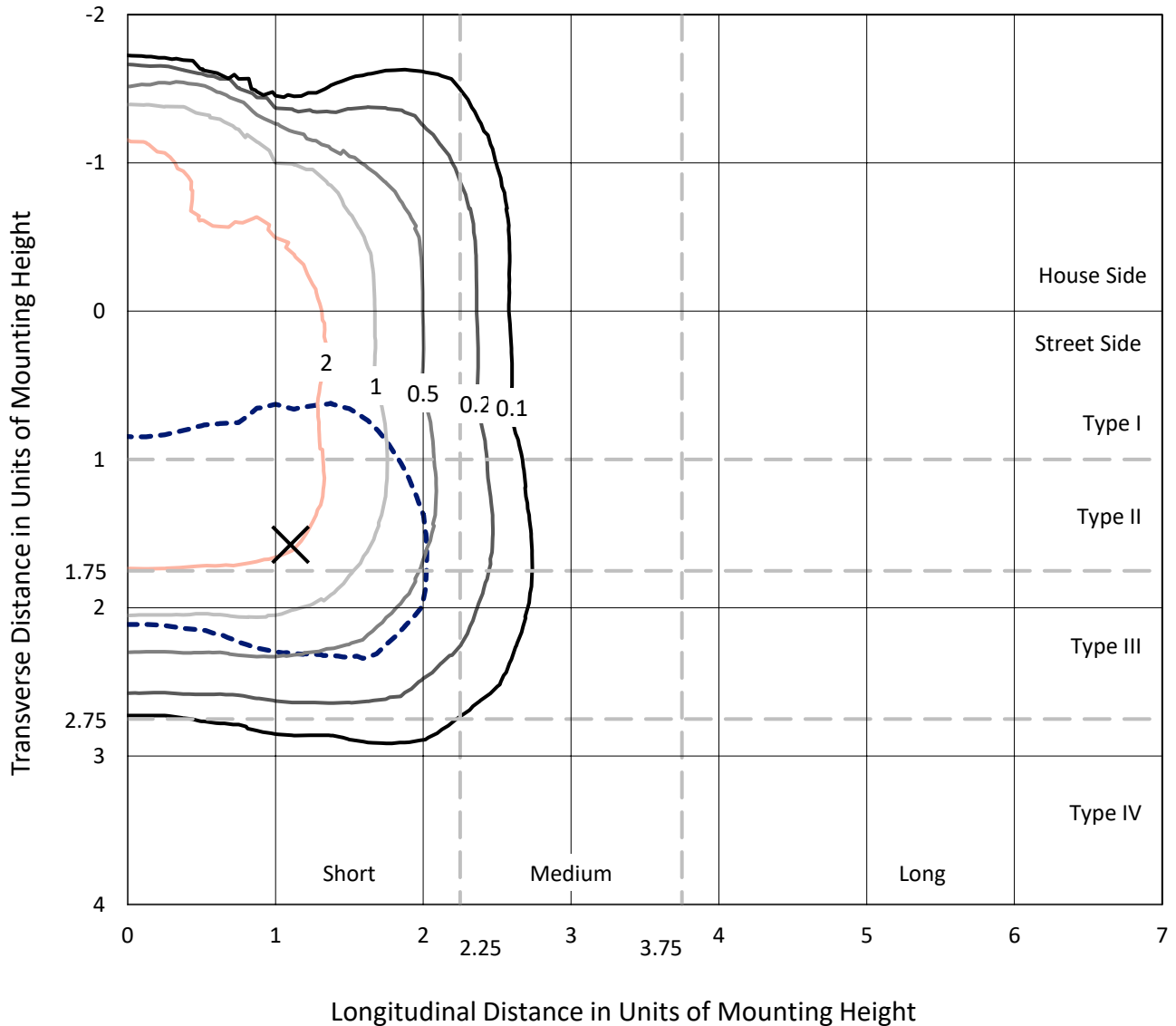
Input Watts (W): 212.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

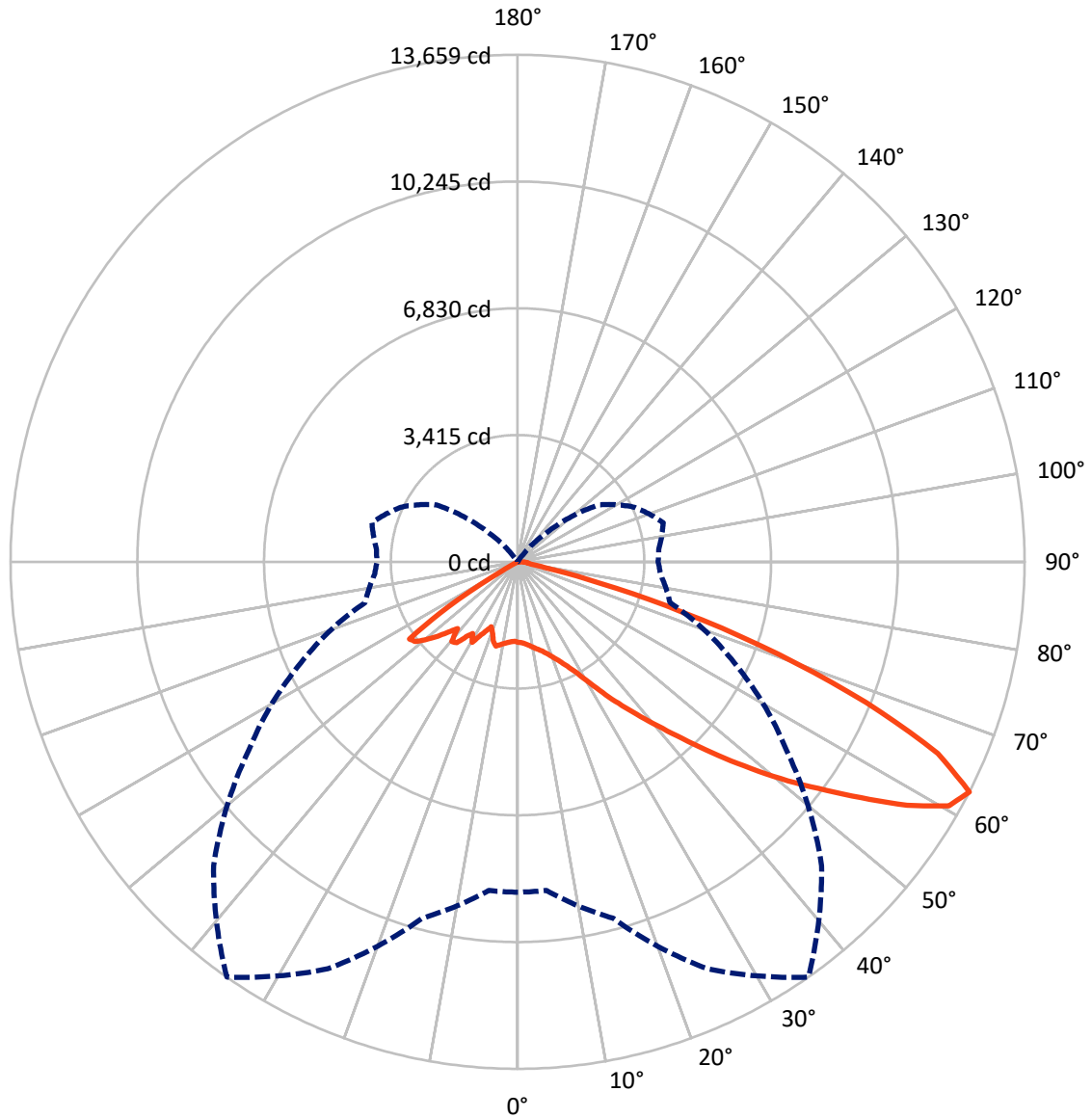
✕ Max cd  
 - - - 1/2 Max cd



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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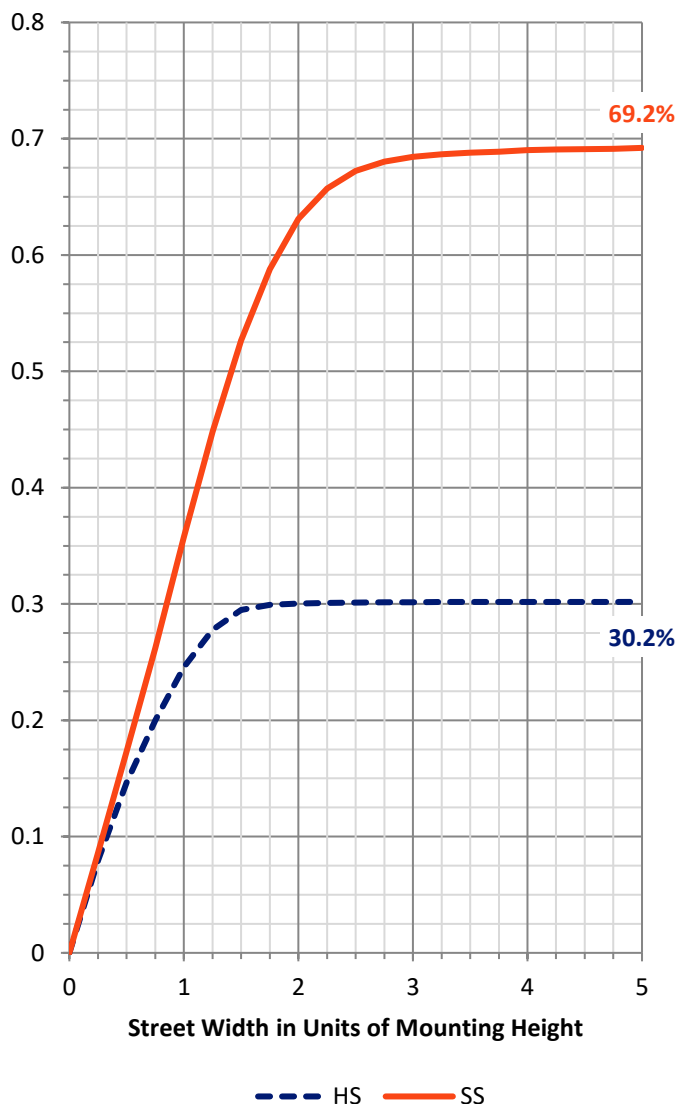
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5847.6	0.0	5847.6
	% Fixture	30.4	0.0	30.4
<b>Street Side</b>	Lumens	13402.7	16.7	13419.4
	% Fixture	69.6	0.1	69.6
<b>Total</b>	Lumens	19250.3	16.7	19267.0
	% Fixture	99.9	0.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.1	1.1
10°-20°	687.1	3.6
20°-30°	1255.8	6.5
30°-40°	2393.1	12.4
40°-50°	4107.6	21.3
50°-60°	5510.4	28.6
60°-70°	4189.0	21.7
70°-80°	793.2	4.1
80°-90°	100.2	0.5
90°-100°	14.7	0.1
100°-110°	2.0	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°	19250.3	99.9
0°-180°	19267.0	100.0

**Coefficient of Utilization**



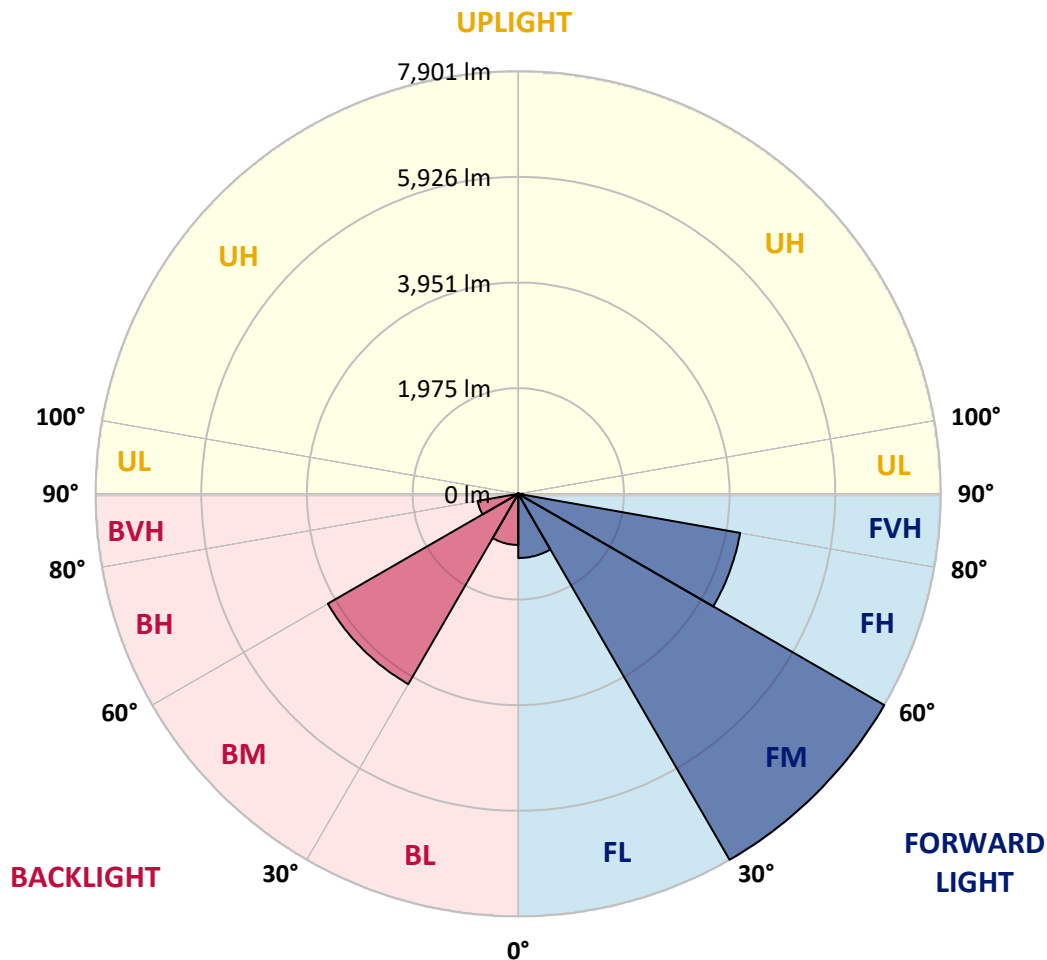
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1201.1	6.2			
FM (30°-60°)	7901.1	41.0			
FH (60°-80°)	4212.1	21.9			G2/5000
FVH (80°-90°)	88.4	0.5			G1/100
BL (0°-30°)	955.9	5.0	B2/1000		
BM (30°-60°)	4109.9	21.3	B3/5000		
BH (60°-80°)	770.0	4.0	B2/1000		G2/1000
BVH (80°-90°)	11.7	0.1			G1/100
UL (90°-100°)	14.7	0.1		U2/50	
UH (100°-180°)	2.0	0.0		U1/10	

**BUG Rating: B3-U2-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7
2.5°	2223.3	2206.9	2207.8	2222.4	2180.6	2196.0	2177.9	2196.0	2186.0	2193.3	2196.9
5°	2262.3	2246.0	2244.2	2259.6	2224.2	2235.1	2216.9	2229.6	2216.0	2225.1	2225.1
7.5°	2321.4	2305.0	2299.6	2311.4	2278.7	2286.9	2267.8	2275.1	2259.6	2271.4	2265.1
10°	2391.3	2373.1	2366.8	2373.1	2345.0	2349.5	2326.8	2335.0	2312.3	2325.9	2316.8
12.5°	2465.8	2442.2	2442.2	2447.6	2417.6	2418.5	2397.7	2402.2	2379.5	2394.0	2383.1
15°	2546.6	2520.3	2523.9	2529.3	2497.6	2503.0	2481.2	2488.5	2464.9	2479.4	2468.5
17.5°	2653.8	2625.6	2622.0	2638.3	2608.4	2618.4	2593.8	2602.9	2582.0	2586.6	2581.1
20°	2801.8	2766.4	2758.2	2780.0	2746.4	2753.7	2735.5	2753.7	2731.9	2699.2	2607.5
22.5°	2978.9	2948.0	2934.4	2948.9	2909.0	2921.7	2920.8	2949.8	2889.9	2683.7	2592.0
25°	3212.3	3191.4	3165.1	3166.9	3118.8	3137.8	3172.4	3195.1	2939.9	2759.1	2760.9
27.5°	3523.8	3502.9	3466.6	3453.0	3383.1	3429.4	3483.0	3261.4	3060.6	3107.0	3081.5
30°	3921.6	3918.0	3844.4	3820.8	3744.5	3802.7	3756.3	3376.7	3445.7	3510.2	3471.2
32.5°	4451.1	4425.7	4319.4	4276.7	4196.8	4230.4	3821.7	3767.2	3869.9	3957.0	3916.2
35°	5091.4	5014.2	4906.1	4821.7	4682.7	4495.6	4070.6	4176.8	4330.3	4450.2	4252.2
37.5°	5835.2	5751.7	5582.7	5431.1	5212.2	4629.1	4445.7	4658.2	4850.7	4720.8	4264.0
40°	6600.8	6526.4	6367.4	6172.2	5802.5	5043.3	4900.7	5155.0	5373.8	4630.0	4403.0
42.5°	7361.0	7297.4	7169.4	6976.8	6500.9	5536.4	5399.3	5672.6	5466.5	4807.1	4799.9
45°	8127.5	8095.7	7950.4	7786.0	7328.3	6167.6	5957.8	6171.2	5260.3	5231.3	5214.0
47.5°	8748.7	8754.2	8703.3	8618.0	8211.1	6860.6	6587.2	5954.2	5511.0	5542.8	5550.9
50°	9389.0	9348.1	9345.4	9350.9	9181.0	7753.3	7015.9	5856.1	5838.8	5836.1	5828.9
52.5°	9902.2	9850.4	9957.6	10042.9	10143.7	8749.6	6951.4	6188.5	6089.5	6055.0	5843.4
55°	10319.9	10299.9	10474.3	10763.1	11211.8	9805.0	7521.7	6512.7	6314.7	5508.3	4968.8
57.5°	10573.3	10602.4	10962.0	11529.7	12369.7	10679.6	8185.6	6841.5	5406.5	4851.6	4817.1
60°	10088.3	10241.8	10854.0	12100.0	13348.8	11502.4	8679.7	6907.8	4865.3	4568.3	4499.2
62.5°	8901.3	8886.8	9938.5	12100.0	13659.4	11584.1	8835.9	6438.3	4250.4	3863.5	3786.3
65°	6300.2	6338.4	7461.8	10903.9	12443.3	10774.9	8150.2	5473.7	3390.3	3035.2	2930.8
67.5°	3898.9	3896.2	4996.0	8030.3	10129.2	9021.2	6861.5	4195.9	2353.2	2018.0	1904.5
70°	1346.9	1385.0	2246.9	4699.1	7456.4	7067.6	5135.0	2649.2	1240.6	884.6	746.5
72.5°	535.8	548.6	806.5	2095.2	4658.2	4721.8	3120.6	1286.9	371.5	236.1	221.6
75°	350.6	352.4	386.9	756.5	2260.5	2540.2	1449.5	369.6	172.6	158.0	154.4
77.5°	302.4	303.3	321.5	383.3	736.6	988.1	412.3	218.9	144.4	129.9	126.2
80°	280.6	281.5	290.6	329.7	355.1	336.9	219.8	176.2	121.7	115.3	114.4
82.5°	265.2	268.8	273.4	297.0	287.0	253.4	182.5	142.6	93.5	99.9	102.6
85°	244.3	247.9	250.7	264.3	239.8	185.3	141.7	107.2	59.9	65.4	64.5
87.5°	183.5	185.3	181.6	179.8	167.1	129.9	93.5	68.1	23.6	21.8	20.0
90°	88.1	87.2	83.6	77.2	67.2	52.7	39.1	21.8	10.0	4.5	1.8
92.5°	69.9	69.0	67.2	60.8	52.7	39.1	28.2	15.4	9.1	3.6	0.9
95°	47.2	45.4	43.6	39.1	32.7	23.6	16.3	10.9	7.3	2.7	0.9
97.5°	30.9	30.0	27.2	23.6	18.2	12.7	10.0	8.2	6.4	2.7	0.9
100°	19.1	19.1	17.3	13.6	9.1	7.3	6.4	6.4	4.5	1.8	0.0
102.5°	11.8	10.9	10.0	6.4	4.5	4.5	4.5	4.5	3.6	1.8	0.0
105°	6.4	6.4	4.5	3.6	2.7	1.8	2.7	3.6	2.7	0.9	0.0
107.5°	1.8	1.8	1.8	0.9	0.9	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	1.8	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°	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7	2169.7
2.5°	2192.4	2175.1	2179.7	2162.4	2159.7	2141.5	2172.4	2174.2	2166.1	2175.1
5°	2220.6	2199.7	2207.8	2187.0	2183.3	2159.7	2184.2	2181.5	2175.1	2182.4
7.5°	2260.5	2239.6	2244.2	2219.7	2215.1	2188.8	2212.4	2203.3	2195.1	2205.1
10°	2315.9	2292.3	2295.9	2266.9	2263.2	2232.4	2259.6	2246.0	2234.2	2247.8
12.5°	2384.0	2353.2	2349.5	2318.6	2315.9	2286.9	2315.0	2301.4	2289.6	2311.4
15°	2462.1	2421.3	2415.8	2376.8	2372.2	2342.3	2369.5	2349.5	2340.4	2368.6
17.5°	2566.6	2422.2	2341.4	2284.1	2251.4	2235.1	2284.1	2350.4	2330.5	2331.4
20°	2523.9	2368.6	2260.5	2211.5	2176.1	2018.0	1800.1	1862.7	1989.9	2052.5
22.5°	2511.2	2456.7	2412.2	2329.5	1978.1	1889.1	1901.8	1887.2	1647.5	1555.8
25°	2754.6	2691.9	2595.6	2162.4	2060.7	2040.7	2048.0	1797.3	1616.6	1642.9
27.5°	3066.1	3001.6	2526.6	2284.1	2264.2	2237.8	2094.3	1781.0	1805.5	1830.9
30°	3458.4	3119.7	2634.7	2560.2	2523.0	2495.7	1963.5	1989.0	2029.8	2061.6
32.5°	3840.8	3109.7	2944.4	2851.8	2805.4	2276.9	2218.7	2277.8	2319.6	2344.1
35°	3845.3	3465.7	3291.3	3172.4	2878.1	2447.6	2501.2	2600.2	2702.8	2721.9
37.5°	3949.8	3869.0	3669.1	3519.3	2140.6	2731.9	2849.9	2963.5	3066.1	3072.5
40°	4365.7	4278.6	4091.5	3761.8	2364.1	2786.4	3234.1	3362.2	3448.5	3443.9
42.5°	4780.8	4720.8	4526.5	3343.1	2663.8	2414.0	3637.4	3721.8	3776.3	3814.5
45°	5198.6	5138.6	4482.0	3671.0	3020.7	2643.8	3539.3	4017.9	4077.8	4096.9
47.5°	5524.6	5376.6	4106.9	4106.0	3466.6	2938.0	2922.6	4284.9	4337.6	4324.0
50°	5826.1	4799.9	4439.3	4248.6	3928.0	3215.0	3107.9	3605.6	4572.8	4552.8
52.5°	5301.2	4658.2	4724.5	3864.4	4298.5	3490.2	3316.8	3233.2	4155.0	4690.0
55°	4740.8	4831.6	5016.0	4245.9	3118.8	3579.2	3493.9	3327.7	2803.6	2359.5
57.5°	4838.0	4973.3	4982.4	4599.1	3227.8	2236.0	2863.6	2506.6	1583.9	1587.5
60°	4513.8	4690.0	3641.9	3066.1	1735.6	465.9	45.4	40.0	276.1	336.0
62.5°	3816.3	4061.5	3476.6	2671.0	1113.5	17.3	4.5	0.9	0.0	0.0
65°	2955.3	3250.5	2938.0	2305.0	988.1	5.4	0.0	0.0	0.0	0.0
67.5°	1949.0	2215.1	2232.4	1928.1	823.7	2.7	0.0	0.0	0.0	0.0
70°	816.5	1149.8	1389.6	1433.1	647.5	0.9	0.0	0.0	0.0	0.0
72.5°	236.1	365.1	668.4	861.0	411.4	0.0	0.0	0.0	0.0	0.0
75°	157.1	168.0	193.4	387.8	205.3	0.0	0.0	0.0	0.0	0.0
77.5°	129.9	132.6	110.8	106.3	59.0	0.0	0.0	0.0	0.0	0.0
80°	118.1	116.3	89.0	62.7	21.8	0.0	0.0	0.0	0.0	0.0
82.5°	109.0	103.5	64.5	32.7	14.5	0.0	0.0	0.0	0.0	0.0
85°	73.6	72.7	29.1	20.0	2.7	0.0	0.0	0.0	0.0	0.0
87.5°	20.0	25.4	6.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	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)