

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: P579493

Luminaire Tested: **CTN-CA10-760-740-U-T5N-HSS-HM-EX120**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579493  
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-CA10-760-740-U-T5N-HSS-HM-EX120  
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD  
Light Source: (10) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 83681 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U2 - G5

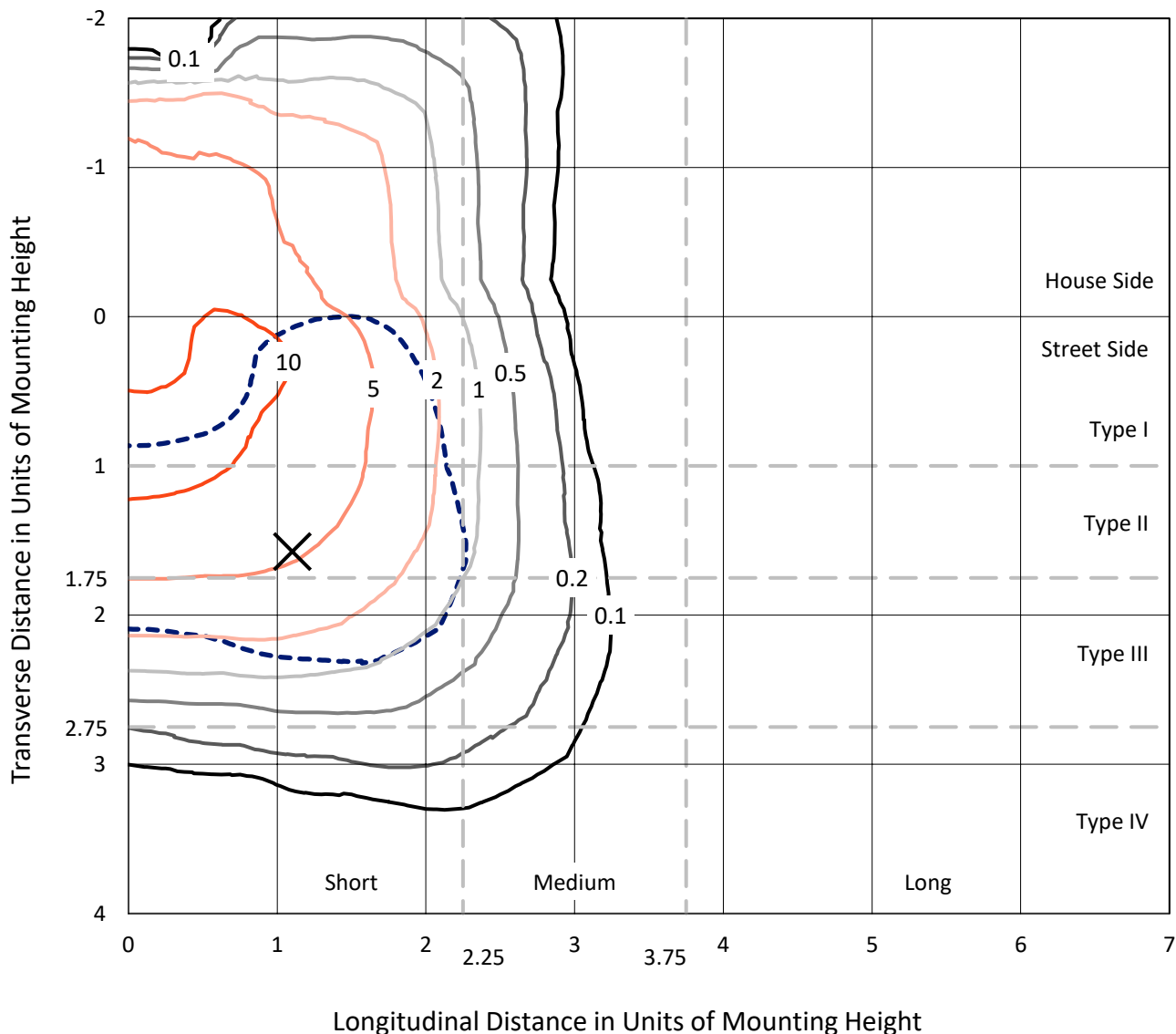
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

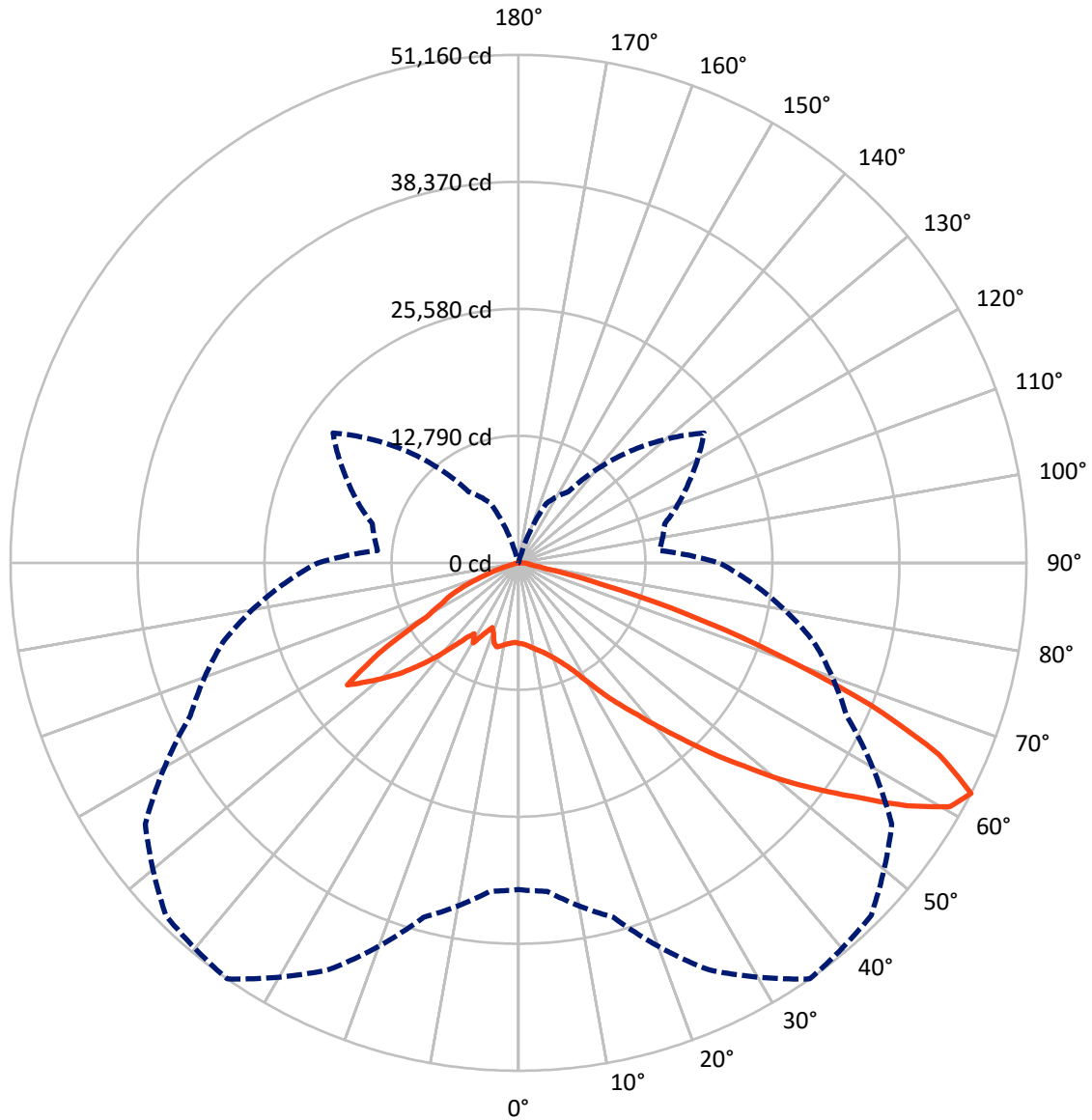
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.2 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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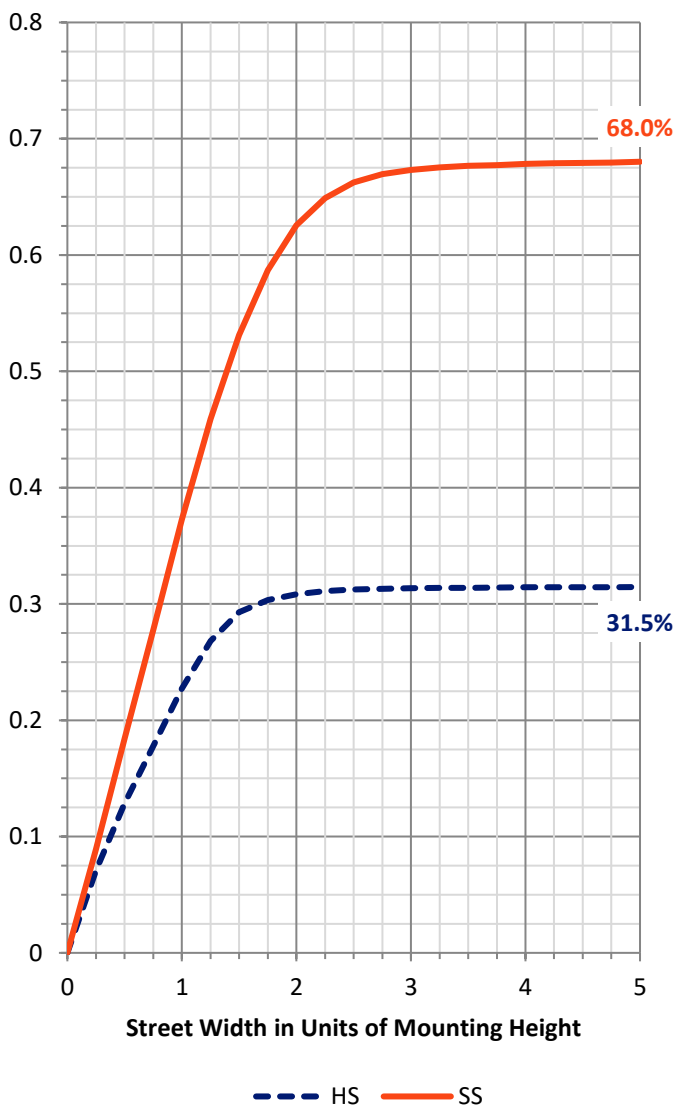
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	26473.1	0.0	26473.1
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	57160.1	47.8	57207.9
	% Fixture	68.3	0.1	68.4
<b>Total</b>	Lumens	83633.2	47.8	83681.0
	% Fixture	99.9	0.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	801.0	1.0
10°-20°	2575.3	3.1
20°-30°	4782.0	5.7
30°-40°	9428.0	11.3
40°-50°	16924.3	20.2
50°-60°	24601.3	29.4
60°-70°	20218.3	24.2
70°-80°	3843.2	4.6
80°-90°	460.1	0.5
90°-100°	43.5	0.1
100°-110°	4.2	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°	83633.2	99.9
0°-180°	83681.0	100.0

**Coefficient of Utilization**

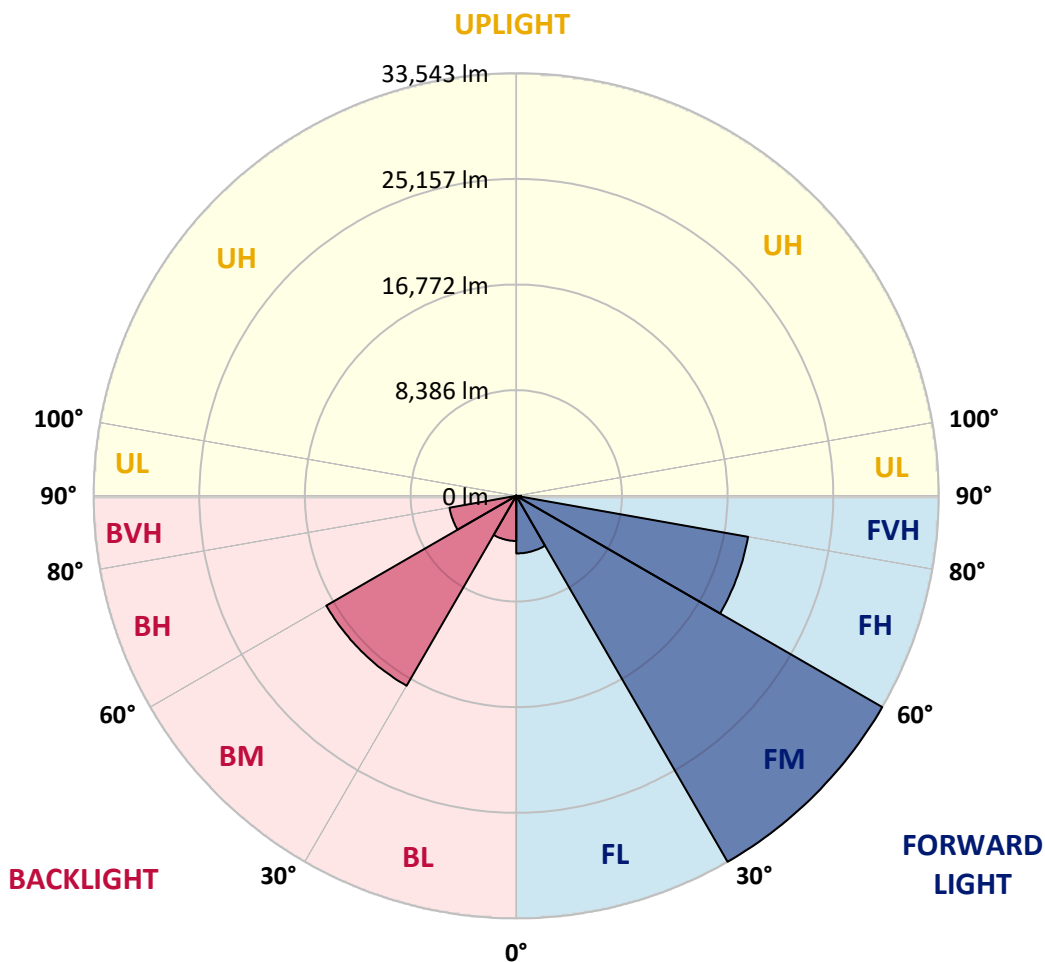


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4573.6	5.5			
FM (30°-60°)	33543.2	40.1			
FH (60°-80°)	18679.5	22.3			G5
FVH (80°-90°)	363.8	0.4			G3/500
BL (0°-30°)	3584.5	4.3	B4/5000		
BM (30°-60°)	17410.3	20.8	B5		
BH (60°-80°)	5381.9	6.4	B5		G5
BVH (80°-90°)	96.3	0.1			G1/100
UL (90°-100°)	43.5	0.1		U2/50	
UH (100°-180°)	4.3	0.0		U1/10	

**BUG Rating: B5-U2-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8122.5	8122.5	8122.5	8122.5	8122.5	8122.5	8122.5	8122.5	8122.5	8122.5	8122.5
2.5°	8330.0	8262.0	8268.8	8319.8	8166.8	8217.8	8146.3	8207.6	8180.4	8207.6	8224.6
5°	8496.7	8411.7	8408.3	8459.3	8336.8	8367.4	8285.8	8326.6	8289.2	8323.2	8323.2
7.5°	8700.8	8629.3	8612.3	8653.2	8544.3	8557.9	8476.3	8493.3	8449.1	8493.3	8459.3
10°	8955.9	8891.2	8864.0	8884.4	8785.8	8792.6	8704.2	8711.0	8646.3	8683.8	8656.6
12.5°	9224.6	9136.1	9122.5	9156.6	9054.5	9040.9	8966.1	8972.9	8901.5	8935.5	8915.1
15°	9503.5	9411.7	9415.1	9449.1	9347.0	9353.8	9275.6	9289.2	9217.8	9251.8	9224.6
17.5°	9874.3	9782.4	9775.6	9836.8	9751.8	9779.0	9697.4	9714.4	9663.4	9670.2	9639.6
20°	10404.9	10285.8	10262.0	10350.4	10238.2	10272.2	10228.0	10285.8	10265.4	10248.4	10224.6
22.5°	11037.5	10945.7	10898.1	10966.1	10833.4	10898.1	10921.9	11040.9	11071.5	11051.1	10677.0
25°	11884.5	11836.9	11789.2	11758.6	11598.8	11700.8	11823.3	12020.5	12149.8	12200.8	11680.4
27.5°	13027.3	13051.2	12843.7	12809.7	12629.4	12789.2	13010.3	13330.1	13592.0	13687.2	12986.5
30°	14496.8	14527.4	14245.0	14163.4	14054.6	14190.6	14602.2	14952.5	15340.3	15500.2	14564.8
32.5°	16449.2	16421.9	16007.0	15850.5	15751.9	15806.3	16238.3	16717.9	17153.2	17513.8	16364.1
35°	18833.5	18748.5	18306.3	17874.3	17483.2	17649.8	17966.2	18547.8	19207.7	19738.3	18139.6
37.5°	21602.3	21520.6	20847.2	20143.1	19371.0	19442.4	19724.7	20673.7	21524.0	21663.5	17836.9
40°	24462.8	24428.8	23792.8	22898.2	21697.5	21360.8	21734.9	22891.4	23789.4	21357.4	18541.0
42.5°	27320.0	27156.7	26799.6	25905.0	24306.4	23564.9	24068.3	25224.8	26190.8	22391.4	20173.7
45°	30201.0	30034.3	29731.6	29075.1	27411.9	26333.6	26479.9	27762.2	28636.4	24330.2	21874.4
47.5°	32758.8	32636.4	32418.7	32051.4	30568.3	29592.1	29309.8	30207.8	30803.0	25905.0	23180.5
50°	34963.0	34857.5	34942.5	34820.1	34384.7	33360.9	32428.9	32371.1	32656.8	27306.4	24381.2
52.5°	36901.7	36758.9	37122.8	37554.8	37956.2	37728.3	35473.2	34422.1	34163.6	28357.4	25187.3
55°	38503.8	38452.8	39078.6	40245.3	41772.5	42371.2	38728.3	36316.7	35510.6	29248.6	25262.2
57.5°	39463.0	39585.4	40908.6	43167.1	46153.5	46435.9	42537.9	38330.3	36697.7	29789.4	25619.3
60°	37823.5	38238.5	40619.5	45357.6	49881.5	50003.9	45276.0	38731.7	35143.2	27843.8	23711.1
62.5°	32911.9	33211.2	36956.2	45218.2	51160.4	50228.4	45888.2	36466.4	30799.6	23619.3	20166.9
65°	23255.3	23602.3	28115.9	40775.9	46544.7	46578.7	42034.5	31534.3	24619.3	18285.9	15571.6
67.5°	14027.4	14588.6	18864.1	29602.4	38323.5	39020.8	35068.4	23874.4	17619.2	11938.9	10078.3
70°	4602.1	5115.7	8612.3	17520.6	27626.1	30612.6	26337.0	15513.8	9200.8	5047.7	4064.7
72.5°	1823.1	2057.8	3034.0	7748.4	17802.9	20439.0	16228.1	7496.7	3088.5	1340.2	1166.7
75°	1217.7	1241.5	1401.4	2639.5	8711.0	11177.0	7823.2	2180.3	1146.3	836.7	734.7
77.5°	1061.2	1064.6	1136.1	1391.2	2836.8	4285.8	2251.7	1170.1	949.0	687.1	608.8
80°	972.8	986.4	1030.6	1187.1	1299.3	1455.8	1112.3	976.2	823.1	632.7	574.8
82.5°	932.0	942.2	969.4	1074.8	1051.0	1091.8	898.0	775.5	693.9	581.6	551.0
85°	850.3	867.4	884.4	949.0	864.0	748.3	693.9	520.4	496.6	438.8	404.8
87.5°	642.9	639.5	622.5	632.7	578.2	472.8	391.2	292.5	238.1	197.3	163.3
90°	268.7	272.1	261.9	248.3	217.7	180.3	136.1	81.6	40.8	13.6	6.8
92.5°	204.1	207.5	200.7	180.3	156.5	125.9	91.8	47.6	27.2	10.2	3.4
95°	125.9	129.3	122.5	108.8	95.2	71.4	47.6	30.6	17.0	6.8	0.0
97.5°	74.8	78.2	71.4	64.6	51.0	34.0	27.2	20.4	13.6	6.8	0.0
100°	44.2	44.2	40.8	34.0	23.8	20.4	17.0	13.6	10.2	3.4	0.0
102.5°	20.4	20.4	20.4	13.6	10.2	10.2	10.2	10.2	10.2	3.4	0.0
105°	6.8	6.8	3.4	3.4	3.4	6.8	6.8	6.8	6.8	3.4	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	6.8	6.8	3.4	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4	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°	8122.5	8122.5	8122.5	8122.5	8122.5	8122.5	8122.5	8122.5	8122.5	8122.5
2.5°	8207.6	8142.9	8153.1	8095.3	8081.7	8020.5	8129.3	8139.5	8108.9	8139.5
5°	8309.6	8231.4	8251.8	8187.2	8170.2	8085.1	8173.6	8166.8	8142.9	8173.6
7.5°	8459.3	8370.8	8381.0	8306.2	8289.2	8194.0	8275.6	8251.8	8224.6	8262.0
10°	8649.8	8564.7	8568.1	8466.1	8455.9	8347.0	8452.5	8408.3	8367.4	8421.9
12.5°	8915.1	8796.0	8785.8	8673.6	8670.2	8557.9	8666.8	8629.3	8574.9	8660.0
15°	9221.2	9061.3	9020.5	8877.6	8874.2	8755.2	8864.0	8806.2	8779.0	8881.0
17.5°	9619.1	9418.5	9108.9	8622.5	8401.4	8438.9	8823.2	8962.7	8598.7	8653.2
20°	9860.6	8887.8	8435.5	8234.8	8129.3	7523.9	6704.2	6772.2	7578.3	7962.7
22.5°	9452.5	9163.4	8996.7	8714.4	7245.0	7037.5	7085.1	7071.5	6030.7	5721.1
25°	10302.8	10030.7	9728.0	7986.5	7683.8	7595.3	7619.1	6642.9	6074.9	6098.7
27.5°	11527.3	11177.0	9258.6	8503.5	8442.3	8313.0	7843.6	6670.1	6741.6	6789.2
30°	13075.0	11830.1	9860.6	9530.7	9408.3	9268.8	7279.0	7452.5	7585.1	7731.4
32.5°	14571.6	11506.9	11013.7	10670.2	10479.7	8415.1	8211.0	8530.7	8663.4	8789.2
35°	14435.5	12891.3	12251.8	11816.5	11459.3	9081.7	9262.0	9748.4	10098.7	10095.3
37.5°	14809.7	14398.1	13660.0	13109.0	9945.7	10173.6	10551.1	11105.6	11530.7	11527.3
40°	16370.9	15925.3	15231.5	14047.8	11020.5	11551.1	12068.2	12588.6	12894.7	12918.5
42.5°	17922.0	17578.4	16952.6	12408.3	12336.9	13071.6	13612.4	13942.3	14129.4	14194.0
45°	19466.2	19143.1	16656.6	13724.6	13942.3	14670.2	15000.2	15064.8	15265.5	15258.7
47.5°	20694.1	20418.6	15323.3	15289.3	15830.1	16333.5	16228.1	16146.4	16197.4	16224.7
50°	21826.8	17775.7	16520.6	17017.2	17840.3	17901.5	17462.8	13833.5	17126.0	17068.2
52.5°	20275.7	17347.1	17636.2	18799.5	20200.9	19490.0	18632.8	12126.0	16061.4	17588.6
55°	17741.7	18034.2	18687.3	20639.7	22024.0	21180.5	19748.5	12486.5	10660.0	8677.0
57.5°	18095.4	18558.0	19799.5	22496.8	23704.3	16775.7	18432.2	8802.8	5959.2	5955.8
60°	16850.5	17551.2	19775.7	23330.2	19187.3	10748.4	7384.4	200.7	1156.5	1146.3
62.5°	14245.0	15241.7	18867.5	22803.0	15894.7	8734.8	6578.3	17.0	6.8	6.8
65°	11017.1	12190.6	15731.5	19745.1	14081.8	7523.9	4884.4	0.0	0.0	0.0
67.5°	7224.6	8313.0	11813.0	16401.5	11690.6	5687.1	3282.3	0.0	0.0	0.0
70°	3010.2	4353.8	7340.2	11853.9	8598.7	3724.5	1557.8	0.0	0.0	0.0
72.5°	870.8	1326.5	3306.2	7078.3	5336.8	1949.0	578.2	0.0	0.0	0.0
75°	574.8	605.4	1000.0	2847.0	2595.3	714.3	234.7	0.0	0.0	0.0
77.5°	483.0	496.6	636.1	795.9	833.3	282.3	190.5	0.0	0.0	0.0
80°	445.6	449.0	571.4	591.8	445.6	234.7	187.1	0.0	0.0	0.0
82.5°	415.0	404.8	486.4	469.4	370.8	204.1	173.5	0.0	0.0	0.0
85°	285.7	292.5	329.9	418.4	224.5	102.0	122.5	0.0	0.0	0.0
87.5°	88.4	102.0	129.3	132.7	40.8	13.6	0.0	0.0	0.0	0.0
90°	3.4	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)