

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: P579494

Luminaire Tested: **CTN-CA10-760-740-U-T5N-HSS-HM-EX180**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579494  
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-CA10-760-740-U-T5N-HSS-HM-EX180  
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: 72159 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U3 - G5

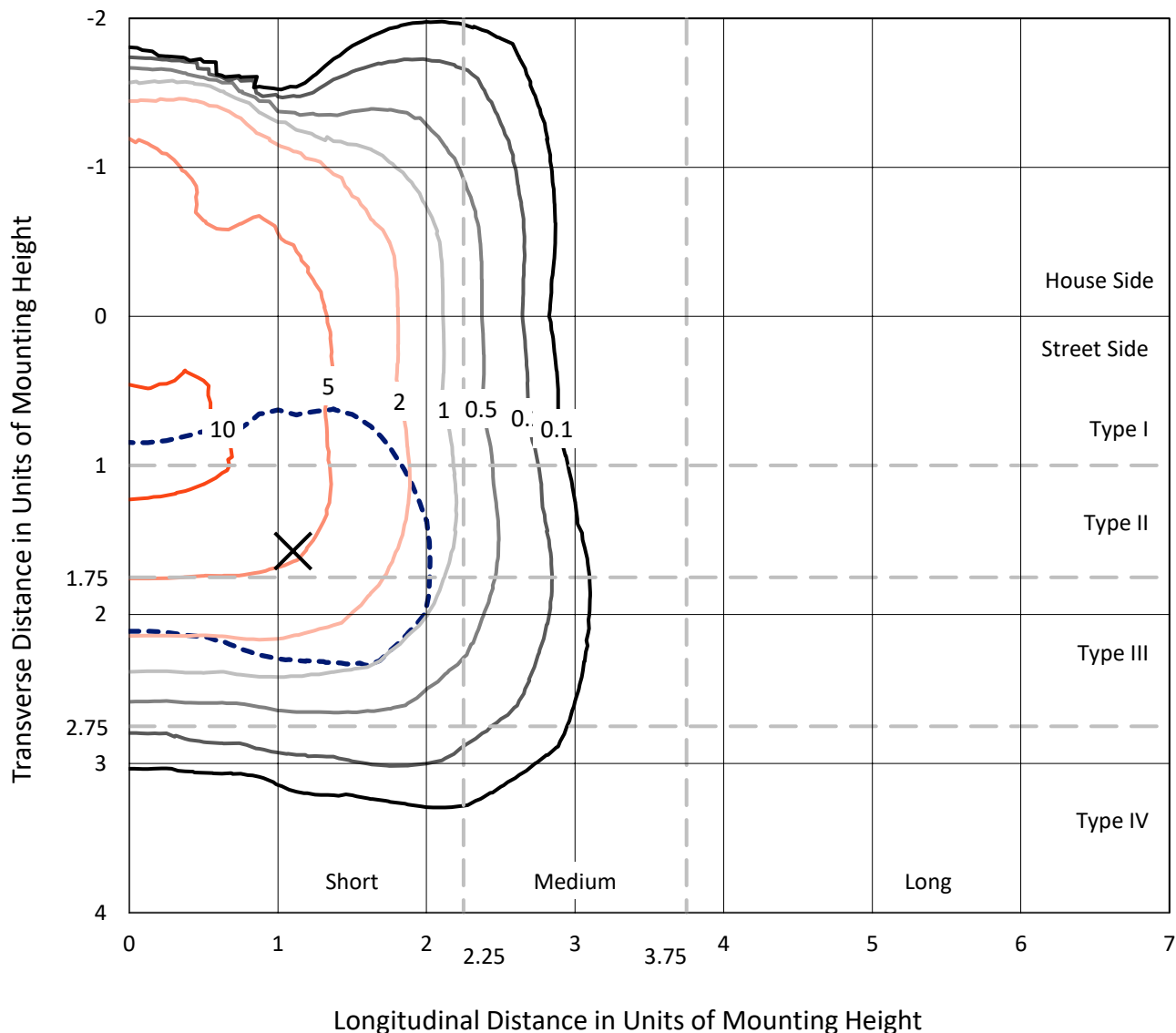
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

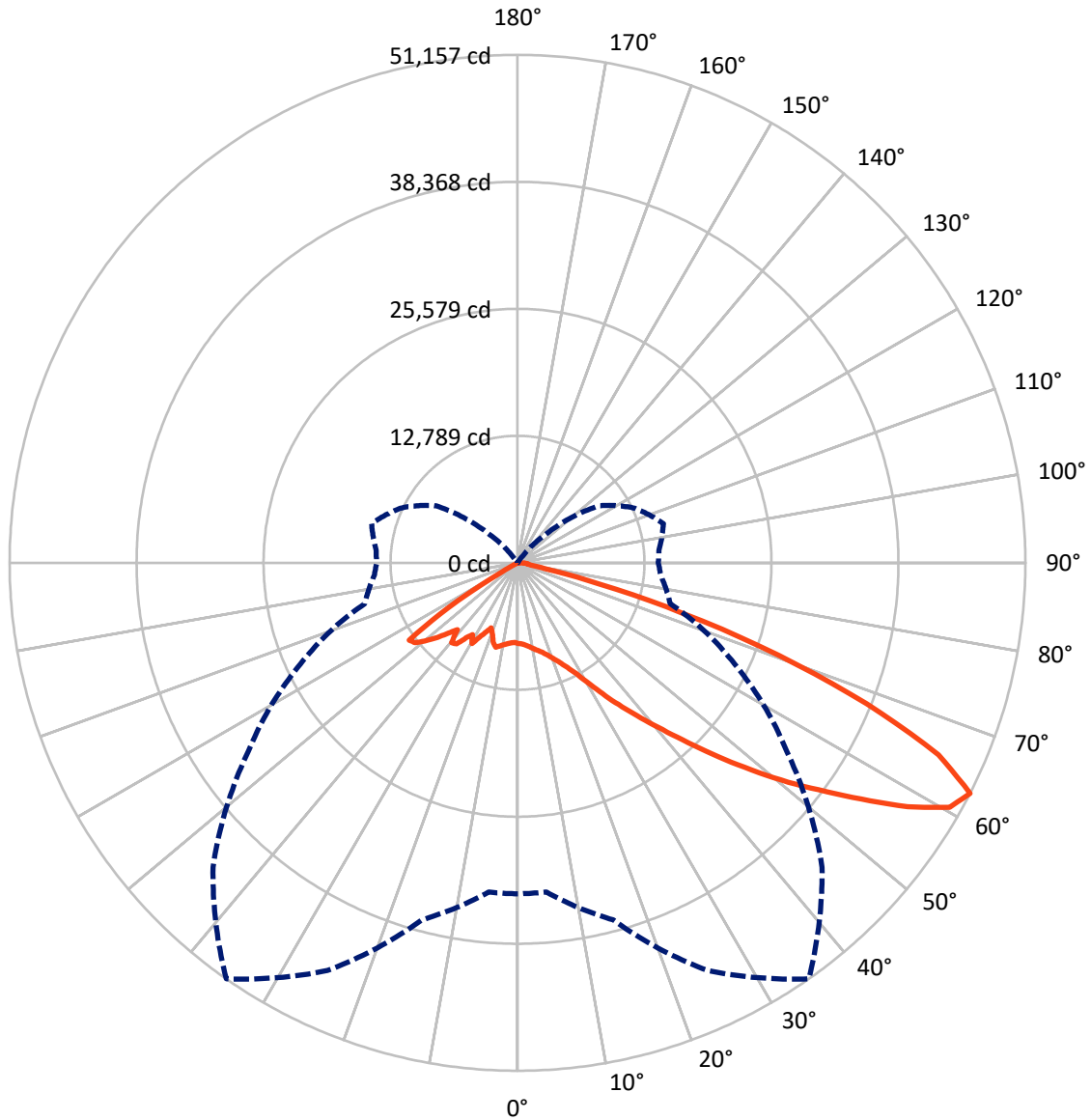
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.3 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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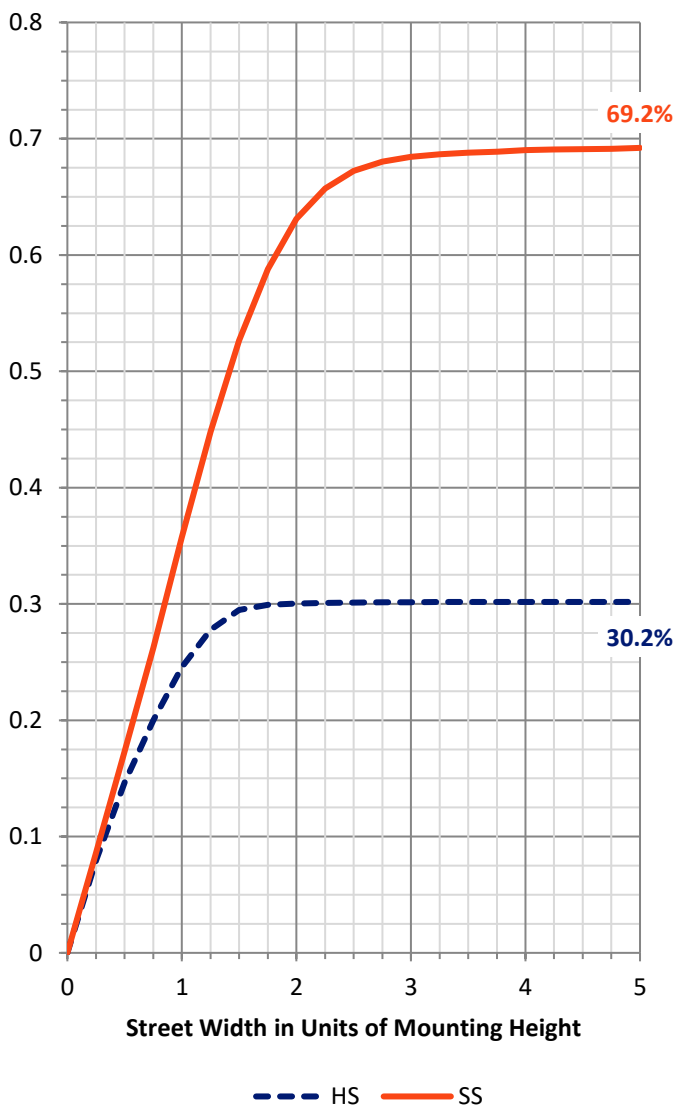
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21900.5	0.1	21900.5
	% Fixture	30.4	0.0	30.4
<b>Street Side</b>	Lumens	50195.8	62.6	50258.5
	% Fixture	69.6	0.1	69.6
<b>Total</b>	Lumens	72096.3	62.7	72159.0
	% Fixture	99.9	0.1	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	801.8	1.1
10°-20°	2573.2	3.6
20°-30°	4703.2	6.5
30°-40°	8962.6	12.4
40°-50°	15383.6	21.3
50°-60°	20637.5	28.6
60°-70°	15688.6	21.7
70°-80°	2970.6	4.1
80°-90°	375.1	0.5
90°-100°	55.1	0.1
100°-110°	7.5	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°	72096.3	99.9
0°-180°	72159.0	100.0

**Coefficient of Utilization**

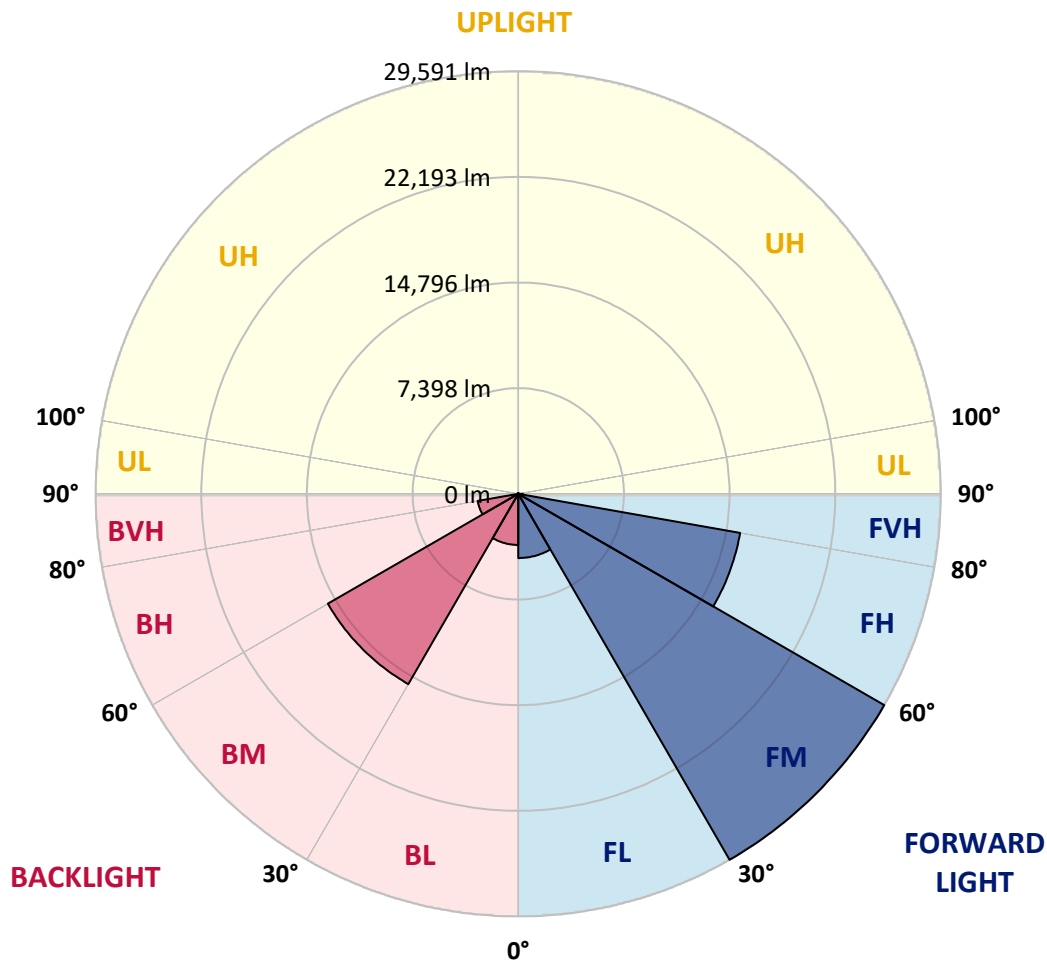


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4498.2	6.2			
FM (30°-60°)	29591.2	41.0			
FH (60°-80°)	15775.3	21.9			G5
FVH (80°-90°)	331.2	0.5			G3/500
BL (0°-30°)	3579.9	5.0	B4/5000		
BM (30°-60°)	15392.6	21.3	B5		
BH (60°-80°)	2884.0	4.0	B4/5000		G4/5000
BVH (80°-90°)	43.9	0.1			G1/100
UL (90°-100°)	55.1	0.1		U3/500	
UH (100°-180°)	7.5	0.0		U1/10	

**BUG Rating: B5-U3-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8126.0	8126.0	8126.0	8126.0	8126.0	8126.0	8126.0	8126.0	8126.0	8126.0	8126.0
2.5°	8326.7	8265.4	8268.8	8323.3	8166.8	8224.6	8156.6	8224.6	8187.2	8214.4	8228.0
5°	8472.9	8411.7	8404.9	8462.7	8330.1	8370.9	8302.9	8350.5	8299.5	8333.5	8333.5
7.5°	8694.0	8632.8	8612.4	8656.6	8534.2	8564.8	8493.3	8520.6	8462.7	8506.9	8483.1
10°	8955.9	8887.9	8864.1	8887.9	8782.5	8799.5	8714.4	8745.0	8660.0	8711.0	8677.0
12.5°	9234.9	9146.4	9146.4	9166.8	9054.6	9058.0	8979.7	8996.8	8911.7	8966.1	8925.3
15°	9537.6	9438.9	9452.5	9473.0	9353.9	9374.3	9292.7	9319.9	9231.4	9285.9	9245.1
17.5°	9938.9	9833.5	9819.9	9881.1	9768.9	9806.3	9714.5	9748.5	9670.2	9687.2	9666.8
20°	10493.4	10360.7	10330.1	10411.7	10285.9	10313.1	10245.1	10313.1	10231.5	10109.0	9765.5
22.5°	11156.7	11041.0	10990.0	11044.4	10894.7	10942.4	10939.0	11047.8	10823.3	10051.2	9707.6
25°	12030.8	11952.6	11853.9	11860.7	11680.5	11751.9	11881.2	11966.2	11010.4	10333.5	10340.3
27.5°	13197.5	13119.3	12983.2	12932.2	12670.3	12843.8	13044.4	12214.5	11462.8	11636.3	11541.0
30°	14687.3	14673.7	14398.2	14309.8	14024.0	14241.7	14068.3	12646.5	12905.0	13146.5	13000.2
32.5°	16670.4	16575.1	16177.1	16017.3	15718.0	15843.8	14313.2	14109.1	14493.4	14820.0	14666.9
35°	19068.4	18779.2	18374.5	18058.1	17537.7	16837.0	15245.2	15643.1	16218.0	16667.0	15925.4
37.5°	21854.1	21541.2	20908.5	20340.5	19520.7	17337.0	16649.9	17445.9	18167.0	17680.6	15969.7
40°	24721.5	24442.6	23847.3	23116.0	21731.7	18888.1	18354.1	19306.5	20126.2	17340.4	16490.1
42.5°	27568.5	27330.4	26850.8	26129.7	24347.4	20735.0	20221.4	21245.3	20473.1	18003.7	17976.5
45°	30439.3	30320.2	29776.0	29160.4	27446.0	23099.0	22313.3	23112.6	19701.0	19592.2	19527.5
47.5°	32765.9	32786.3	32595.8	32276.1	30752.2	25694.3	24670.5	22299.7	20639.8	20758.9	20789.5
50°	35163.9	35010.8	35000.6	35021.0	34384.9	29037.9	26276.0	21932.3	21867.7	21857.5	21830.3
52.5°	37085.7	36891.8	37293.2	37612.9	37990.4	32769.3	26034.5	23177.3	22806.5	22677.3	21884.7
55°	38650.3	38575.5	39228.6	40310.2	41990.5	36721.7	28170.5	24391.6	23650.1	20629.6	18609.2
57.5°	39599.3	39708.2	41055.1	43181.0	46327.3	39997.3	30657.0	25622.9	20248.6	18170.4	18041.1
60°	37783.0	38357.8	40650.4	45317.1	49994.0	43079.0	32507.4	25871.2	18221.4	17109.1	16850.6
62.5°	33337.3	33282.9	37221.7	45317.1	51157.3	43385.1	33092.4	24112.7	15918.6	14469.6	14180.5
65°	23595.6	23738.5	27946.1	40837.4	46602.8	40354.4	30524.3	20500.3	12697.5	11367.5	10976.4
67.5°	14602.3	14592.1	18711.2	30075.3	37936.0	33786.3	25697.7	15714.6	8813.1	7558.0	7132.8
70°	5044.3	5187.2	8415.1	17598.9	27925.6	26469.8	19231.6	9921.9	4646.3	3313.0	2796.0
72.5°	2006.8	2054.5	3020.5	7847.1	17445.9	17684.0	11687.3	4819.8	1391.2	884.4	829.9
75°	1312.9	1319.8	1449.0	2833.4	8466.1	9513.8	5428.7	1384.4	646.3	591.8	578.2
77.5°	1132.7	1136.1	1204.1	1435.4	2758.6	3700.7	1544.2	819.7	540.8	486.4	472.8
80°	1051.0	1054.4	1088.5	1234.7	1330.0	1261.9	823.1	659.9	455.8	432.0	428.6
82.5°	993.2	1006.8	1023.8	1112.3	1074.8	949.0	683.7	534.0	350.3	374.2	384.4
85°	915.0	928.6	938.8	989.8	898.0	693.9	530.6	401.4	224.5	244.9	241.5
87.5°	687.1	693.9	680.3	673.5	625.9	486.4	350.3	255.1	88.4	81.6	74.8
90°	329.9	326.5	312.9	289.1	251.7	197.3	146.3	81.6	37.4	17.0	6.8
92.5°	261.9	258.5	251.7	227.9	197.3	146.3	105.4	57.8	34.0	13.6	3.4
95°	176.9	170.1	163.3	146.3	122.5	88.4	61.2	40.8	27.2	10.2	3.4
97.5°	115.6	112.2	102.0	88.4	68.0	47.6	37.4	30.6	23.8	10.2	3.4
100°	71.4	71.4	64.6	51.0	34.0	27.2	23.8	23.8	17.0	6.8	0.0
102.5°	44.2	40.8	37.4	23.8	17.0	17.0	17.0	17.0	13.6	6.8	0.0
105°	23.8	23.8	17.0	13.6	10.2	6.8	10.2	13.6	10.2	3.4	0.0
107.5°	6.8	6.8	6.8	3.4	3.4	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	6.8	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°	8126.0	8126.0	8126.0	8126.0	8126.0	8126.0	8126.0	8126.0	8126.0	8126.0
2.5°	8211.0	8146.4	8163.4	8098.8	8088.6	8020.5	8136.2	8143.0	8112.4	8146.4
5°	8316.5	8238.2	8268.8	8190.6	8177.0	8088.6	8180.4	8170.2	8146.4	8173.6
7.5°	8466.1	8387.9	8404.9	8313.1	8296.1	8197.4	8285.9	8251.8	8221.2	8258.6
10°	8673.6	8585.2	8598.8	8489.9	8476.3	8360.7	8462.7	8411.7	8367.5	8418.5
12.5°	8928.7	8813.1	8799.5	8683.8	8673.6	8564.8	8670.2	8619.2	8575.0	8656.6
15°	9221.2	9068.2	9047.8	8901.5	8884.5	8772.3	8874.3	8799.5	8765.5	8870.9
17.5°	9612.4	9071.6	8768.9	8554.6	8432.1	8370.9	8554.6	8802.9	8728.0	8731.4
20°	9452.5	8870.9	8466.1	8282.5	8149.8	7558.0	6741.6	6976.3	7452.5	7687.2
22.5°	9404.9	9200.8	9034.2	8724.6	7408.3	7075.0	7122.6	7068.1	6170.2	5826.6
25°	10316.5	10081.8	9721.3	8098.8	7717.8	7643.0	7670.2	6731.4	6054.5	6153.2
27.5°	11483.2	11241.7	9462.7	8554.6	8479.7	8381.1	7843.7	6670.2	6762.0	6857.3
30°	12952.6	11683.9	9867.5	9588.6	9449.1	9347.1	7353.9	7449.1	7602.2	7721.2
32.5°	14384.6	11646.5	11027.4	10680.5	10507.0	8527.4	8309.7	8530.8	8687.2	8779.1
35°	14401.6	12979.8	12326.7	11881.2	10779.1	9166.8	9367.5	9738.3	10122.6	10194.1
37.5°	14792.8	14490.0	13741.7	13180.5	8017.1	10231.5	10673.7	11098.8	11483.2	11507.0
40°	16350.6	16024.1	15323.4	14088.7	8853.9	10435.6	12112.5	12592.1	12915.2	12898.2
42.5°	17905.1	17680.6	16952.7	12520.6	9976.4	9041.0	13622.7	13939.0	14143.1	14286.0
45°	19469.7	19245.2	16786.0	13748.5	11313.1	9901.5	13255.3	15047.9	15272.4	15343.8
47.5°	20690.8	20136.4	15381.2	15377.8	12983.2	11003.6	10945.8	16047.9	16245.2	16194.2
50°	21820.1	17976.5	16626.1	15911.8	14711.1	12041.0	11639.7	13503.6	17126.1	17051.3
52.5°	19854.1	17445.9	17694.2	14473.0	16098.9	13071.7	12422.0	12109.0	15561.5	17564.9
55°	17755.4	18095.5	18786.0	15901.6	11680.5	13405.0	13085.3	12462.8	10500.2	8836.9
57.5°	18119.4	18626.2	18660.2	17224.8	12088.6	8374.3	10724.7	9387.9	5932.1	5945.7
60°	16905.0	17564.9	13639.7	11483.2	6500.1	1744.9	170.1	149.7	1034.0	1258.5
62.5°	14292.8	15211.1	13020.6	10003.6	4170.1	64.6	17.0	3.4	0.0	0.0
65°	11068.2	12173.7	11003.6	8632.8	3700.7	20.4	0.0	0.0	0.0	0.0
67.5°	7299.4	8296.1	8360.7	7221.2	3085.1	10.2	0.0	0.0	0.0	0.0
70°	3057.9	4306.2	5204.2	5367.4	2425.2	3.4	0.0	0.0	0.0	0.0
72.5°	884.4	1367.4	2503.4	3224.5	1540.8	0.0	0.0	0.0	0.0	0.0
75°	588.4	629.3	724.5	1452.4	768.7	0.0	0.0	0.0	0.0	0.0
77.5°	486.4	496.6	415.0	398.0	221.1	0.0	0.0	0.0	0.0	0.0
80°	442.2	435.4	333.3	234.7	81.6	0.0	0.0	0.0	0.0	0.0
82.5°	408.2	387.8	241.5	122.5	54.4	0.0	0.0	0.0	0.0	0.0
85°	275.5	272.1	108.8	74.8	10.2	0.0	0.0	0.0	0.0	0.0
87.5°	74.8	95.2	23.8	10.2	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)