

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: P579399

Luminaire Tested: **CTN-CA10-760-722-U-T5N-HSS-HM-EX90**

Issue Date: 11/18/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P579399  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 11/18/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: CTN-CA10-760-722-U-T5N-HSS-HM-EX90  
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: 73953 lumens  
Efficiency: N/A  
Efficacy: 97.1 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U2 - G5

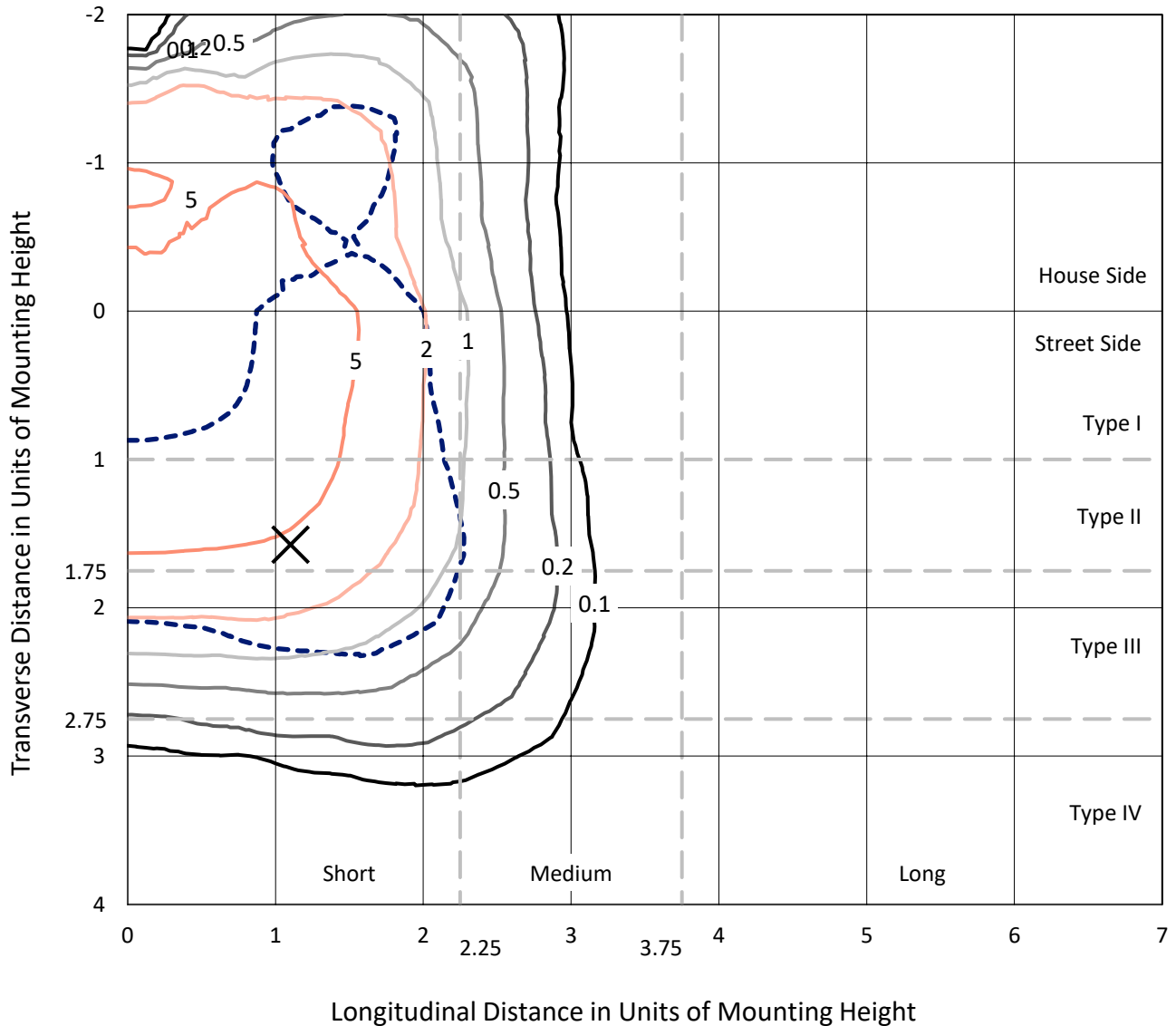
Input Watts (W): 761.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

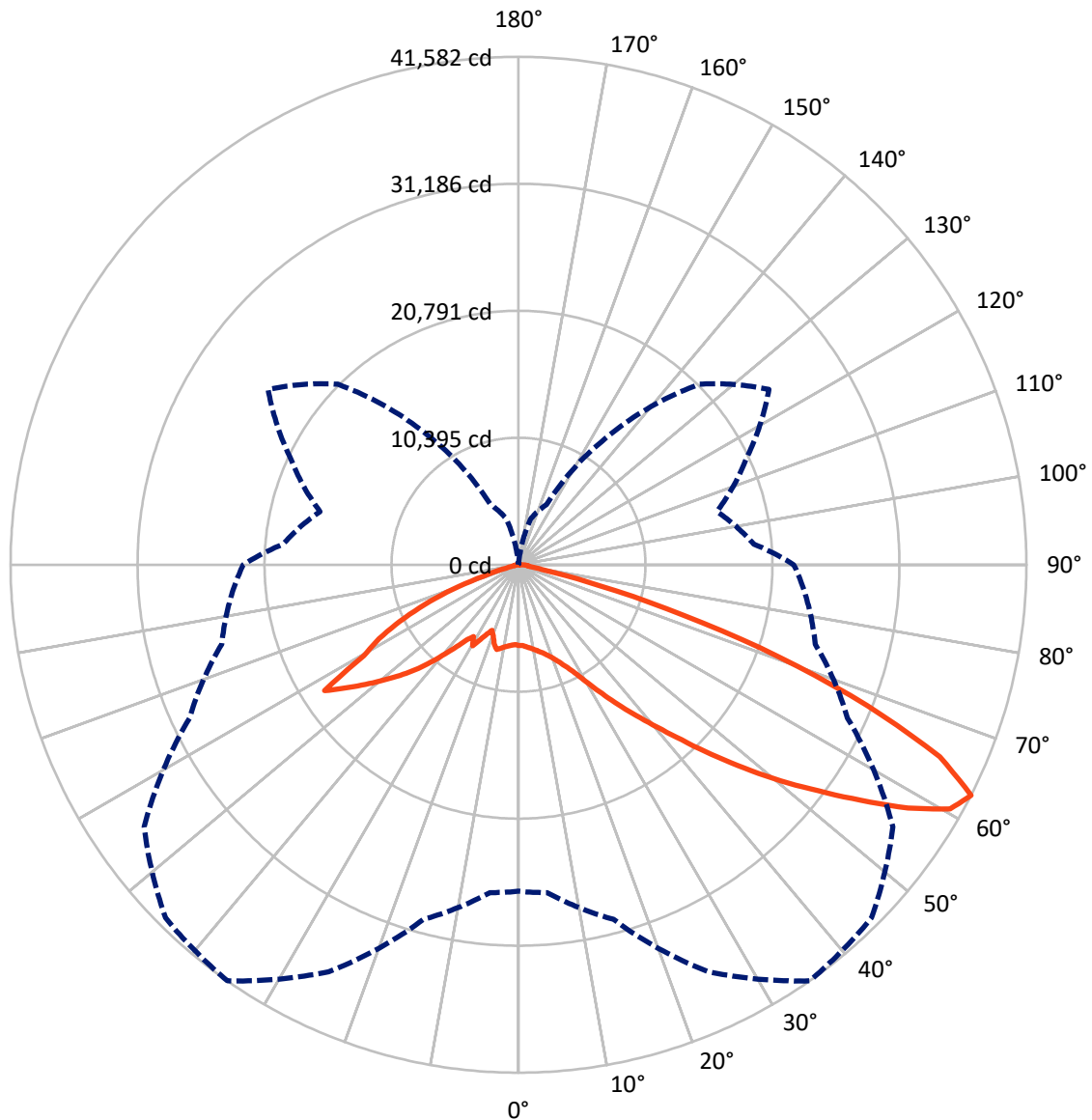
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.9 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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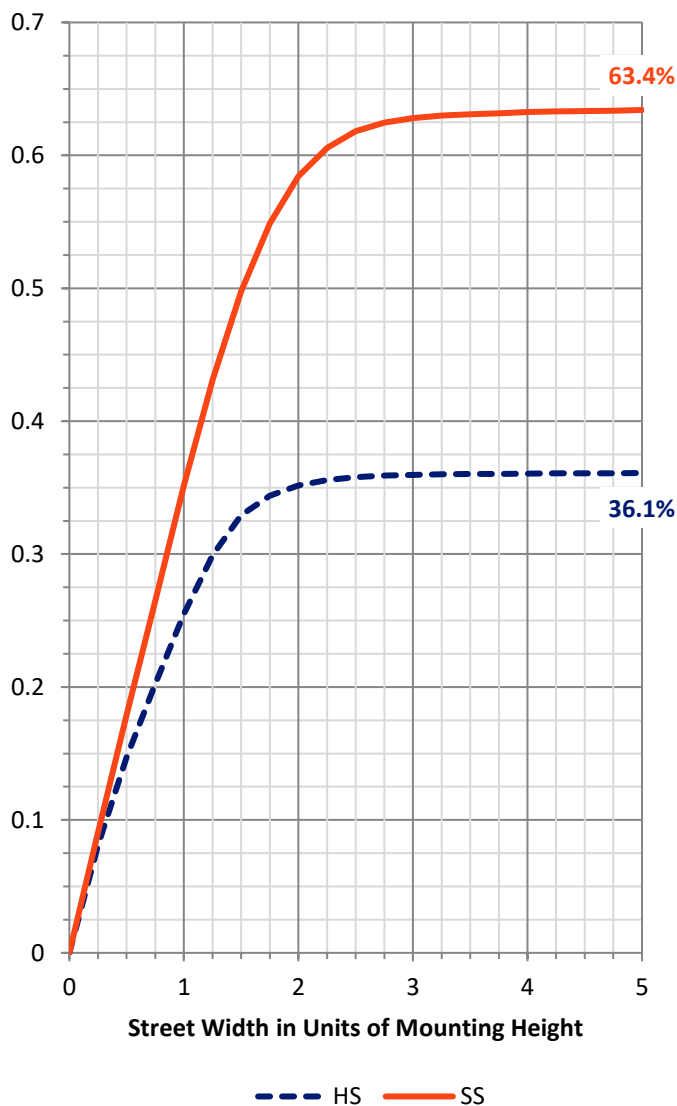
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	26843.2	0.1	26843.2
	% Fixture	36.3	0.0	36.3
<b>Street Side</b>	Lumens	47074.7	35.0	47109.8
	% Fixture	63.7	0.0	63.7
<b>Total</b>	Lumens	73917.9	35.1	73953.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	650.5	0.9
10°-20°	2102.5	2.8
20°-30°	4045.0	5.5
30°-40°	8069.3	10.9
40°-50°	14734.0	19.9
50°-60°	22017.8	29.8
60°-70°	18448.8	24.9
70°-80°	3452.5	4.7
80°-90°	397.4	0.5
90°-100°	31.6	0.0
100°-110°	3.4	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°	73917.9	100.0
0°-180°	73953.0	100.0

**Coefficient of Utilization**

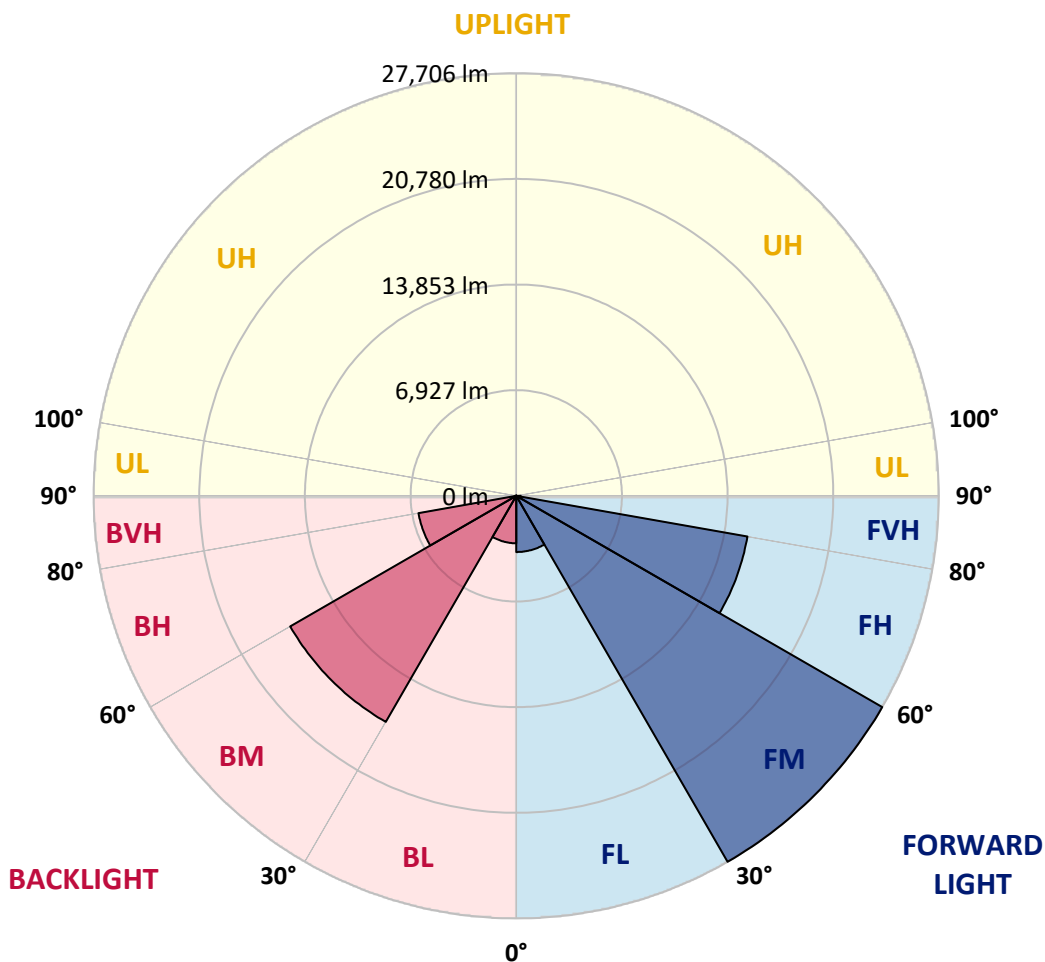


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3687.4	5.0			
FM	(30°-60°)	27706.2	37.5			
FH	(60°-80°)	15391.7	20.8			G5
FVH	(80°-90°)	289.4	0.4			G3/500
BL	(0°-30°)	3110.6	4.2	B4/5000		
BM	(30°-60°)	17114.9	23.1	B5		
BH	(60°-80°)	6509.6	8.8	B5		G5
BVH	(80°-90°)	108.0	0.1			G2/225
UL	(90°-100°)	31.6	0.0		U2/50	
UH	(100°-180°)	3.5	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°	6617.1	6617.1	6617.1	6617.1	6617.1	6617.1	6617.1	6617.1	6617.1	6617.1	6617.1
2.5°	6758.4	6703.0	6711.3	6750.1	6628.1	6678.0	6625.4	6675.3	6658.6	6680.8	6697.4
5°	6855.5	6786.2	6791.7	6836.1	6741.8	6783.4	6730.7	6764.0	6736.3	6766.8	6769.5
7.5°	6988.5	6930.3	6922.0	6966.3	6886.0	6922.0	6869.3	6886.0	6858.2	6894.3	6883.2
10°	7165.9	7113.3	7099.4	7129.9	7066.1	7085.5	7030.1	7052.3	7010.7	7052.3	7032.9
12.5°	7362.8	7293.5	7296.2	7329.5	7265.7	7279.6	7235.2	7260.2	7210.3	7254.6	7240.8
15°	7595.6	7495.8	7515.2	7551.3	7490.3	7531.9	7479.2	7515.2	7468.1	7515.2	7498.6
17.5°	7897.8	7784.1	7798.0	7856.2	7806.3	7872.8	7811.8	7856.2	7834.0	7864.5	7859.0
20°	8280.3	8205.5	8191.6	8263.7	8191.6	8274.8	8241.5	8319.1	8324.7	8355.2	8369.0
22.5°	8790.4	8740.5	8707.2	8757.1	8693.4	8751.6	8798.7	8931.8	8981.7	9062.1	9067.6
25°	9469.6	9466.8	9392.0	9394.7	9314.3	9392.0	9525.0	9732.9	9866.0	9968.6	9929.7
27.5°	10387.1	10403.8	10290.1	10245.8	10151.5	10267.9	10542.4	10800.2	11041.4	11185.5	11185.5
30°	11584.7	11601.3	11435.0	11346.3	11260.4	11462.7	11789.8	12125.3	12469.0	12676.9	12629.8
32.5°	13170.4	13117.7	12879.3	12718.5	12571.6	12804.4	13181.4	13561.2	14029.7	14329.1	14293.1
35°	15094.2	14902.9	14664.5	14365.1	14049.1	14232.1	14586.9	15063.7	15715.2	16164.2	16050.6
37.5°	17328.5	17140.0	16732.5	16216.9	15665.3	15687.4	15967.4	16793.5	17608.5	17974.4	17896.8
40°	19648.8	19501.9	19127.6	18465.1	17467.1	17237.1	17697.2	18692.4	19471.4	19931.6	19801.3
42.5°	22013.4	21863.7	21581.0	20915.7	19593.4	19038.9	19518.5	20602.4	21434.1	21885.9	21736.2
45°	24372.5	24200.6	23976.1	23388.4	22127.1	21314.9	21583.7	22578.9	23338.5	23851.3	23543.6
47.5°	26446.1	26332.4	26179.9	25941.5	24838.2	23940.1	23920.6	24577.6	25101.6	25439.8	25062.8
50°	28250.7	28170.3	28256.2	28206.3	27804.4	26986.6	26484.9	26440.5	26609.6	26856.3	26318.5
52.5°	29869.6	29728.2	30047.0	30443.5	30740.1	30573.7	28949.3	28037.2	27851.5	27934.7	27324.8
55°	31194.7	31128.2	31663.2	32658.4	34030.6	34396.5	31480.2	29589.6	28904.9	28860.6	28167.5
57.5°	32004.2	32098.4	33168.4	35064.6	37581.7	37698.1	34587.8	31250.1	29930.6	29453.8	28655.4
60°	30715.1	31078.3	32905.1	36816.6	40595.0	40667.0	36869.2	31555.1	28649.9	27582.6	26593.0
62.5°	26728.8	26945.0	30052.6	36758.3	41581.8	40877.7	37412.6	29714.4	25154.2	23452.2	22537.4
65°	18828.3	19233.0	22562.3	33071.4	37892.1	37980.9	34321.7	25692.0	20086.8	18204.5	17614.1
67.5°	11371.2	11759.3	15304.9	23873.5	30803.8	31799.0	28630.5	19452.0	14403.9	12025.5	11429.5
70°	3692.5	4113.8	6974.7	14071.3	22659.3	25046.1	21544.9	12660.3	7542.9	5283.7	4643.3
72.5°	1402.7	1530.2	2270.4	6145.8	14112.9	16721.4	13325.6	6350.9	2336.9	1391.6	1222.5
75°	912.0	931.4	1061.7	2153.9	6805.6	9206.2	6423.0	1860.1	937.0	831.6	770.7
77.5°	784.5	798.4	853.8	1072.8	2167.8	3520.6	1843.5	950.8	781.7	693.0	651.4
80°	740.2	745.7	781.7	909.3	1014.6	1175.4	887.1	795.6	681.9	651.4	621.0
82.5°	701.3	720.8	740.2	826.1	823.3	845.5	712.4	623.7	579.4	609.9	598.8
85°	654.2	665.3	679.2	737.4	670.9	568.3	548.9	429.7	418.6	446.3	418.6
87.5°	460.2	487.9	471.3	496.2	465.7	363.1	307.7	243.9	194.0	160.8	155.2
90°	188.5	191.3	180.2	166.3	146.9	122.0	97.0	61.0	27.7	13.9	5.5
92.5°	146.9	146.9	141.4	127.5	110.9	91.5	69.3	38.8	19.4	8.3	2.8
95°	91.5	94.3	88.7	80.4	69.3	55.4	41.6	22.2	13.9	5.5	2.8
97.5°	58.2	58.2	52.7	47.1	38.8	27.7	19.4	16.6	11.1	5.5	0.0
100°	33.3	33.3	30.5	24.9	19.4	13.9	13.9	11.1	8.3	2.8	0.0
102.5°	19.4	19.4	13.9	11.1	8.3	8.3	8.3	8.3	5.5	2.8	0.0
105°	8.3	8.3	5.5	5.5	2.8	2.8	5.5	5.5	5.5	2.8	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.5	5.5	2.8	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.5	2.8	2.8



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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°	6617.1	6617.1	6617.1	6617.1	6617.1	6617.1	6617.1	6617.1	6617.1	6617.1
2.5°	6686.4	6636.5	6644.8	6597.7	6589.3	6542.2	6636.5	6647.6	6619.8	6644.8
5°	6764.0	6703.0	6722.4	6669.7	6661.4	6597.7	6680.8	6675.3	6653.1	6678.0
7.5°	6880.4	6816.6	6827.7	6769.5	6758.4	6689.1	6766.8	6741.8	6719.6	6750.1
10°	7044.0	6971.9	6977.4	6902.6	6910.9	6819.4	6913.7	6869.3	6841.6	6883.2
12.5°	7240.8	7160.4	7163.2	7085.5	7082.8	6994.1	7077.2	7052.3	7010.7	7074.5
15°	7495.8	7404.3	7396.0	7293.5	7265.7	7165.9	7243.6	7196.4	7168.7	7260.2
17.5°	7853.4	7750.9	7720.4	7595.6	7077.2	6777.8	7193.7	7335.0	7163.2	7135.4
20°	8330.2	8244.3	8175.0	7986.5	7116.0	6181.8	5491.6	5497.1	6223.4	6558.8
22.5°	8976.1	8873.6	8743.3	8474.4	6528.3	5791.0	5793.7	5785.4	4964.9	4618.4
25°	9860.4	9735.7	9469.6	7950.4	6930.3	6248.4	6231.7	5419.5	4967.6	4992.6
27.5°	11055.2	10800.2	9242.3	8613.0	7645.5	6841.6	6442.4	5455.5	5511.0	5549.8
30°	12574.3	11548.7	9988.0	9613.7	8504.9	7628.9	5957.3	6093.1	6204.0	6229.0
32.5°	14132.3	11581.9	11180.0	10783.6	9563.8	6941.4	6714.1	6971.9	7088.3	7102.2
35°	14118.4	13001.3	12482.9	12036.6	10545.2	7426.5	7570.7	7967.1	8263.7	8249.8
37.5°	14941.7	14567.5	13949.3	13383.8	9491.7	8366.3	8624.1	9073.2	9433.5	9422.4
40°	16663.2	16230.8	15576.6	14390.1	10509.1	9441.9	9802.2	10284.6	10539.6	10553.5
42.5°	18290.5	17932.9	17264.8	13444.8	11781.5	10736.4	11063.5	11387.9	11545.9	11595.8
45°	19909.4	19654.4	17431.1	14858.6	13320.0	12039.3	12255.6	12316.5	12482.9	12463.5
47.5°	21223.4	20940.6	16760.3	16632.7	15185.7	13275.7	13259.1	13178.7	13239.7	13253.5
50°	22423.7	19016.8	18107.5	18531.6	17142.8	14537.0	14221.0	14057.4	13974.3	13938.2
52.5°	23371.8	19022.3	19366.0	20494.3	19352.2	15906.4	15227.3	14767.1	12929.2	14367.9
55°	24178.5	19806.8	20558.1	22592.8	21256.6	17339.6	16136.5	15316.0	8629.6	6919.2
57.5°	24641.4	20402.8	21739.0	24558.2	22919.9	18933.6	14855.8	12846.0	4878.9	4873.4
60°	22853.4	19332.8	21705.7	25589.5	22440.3	14686.7	6048.8	5061.9	923.1	948.1
62.5°	19346.6	16818.5	20585.8	25024.0	20899.0	12920.9	5425.0	3897.6	30.5	24.9
65°	14988.9	13417.1	17334.1	22010.7	19014.0	10780.8	4044.5	2808.2	8.3	0.0
67.5°	9805.0	9455.7	12790.6	18251.7	15507.3	8352.4	2713.9	1344.5	5.5	0.0
70°	4180.4	4842.9	8102.9	13234.1	11870.2	5746.6	1308.4	485.1	2.8	0.0
72.5°	1169.8	1549.6	3606.5	7753.6	7465.3	3021.6	510.1	205.1	2.8	0.0
75°	693.0	596.0	1034.0	3093.7	3634.3	1061.7	235.6	158.0	2.8	0.0
77.5°	576.6	465.7	593.2	790.1	1100.5	382.6	199.6	141.4	0.0	0.0
80°	540.6	413.0	512.8	551.7	543.3	318.8	196.8	141.4	0.0	0.0
82.5°	512.8	360.4	424.1	424.1	454.6	293.8	185.7	138.6	0.0	0.0
85°	385.3	252.3	282.8	365.9	327.1	207.9	135.8	110.9	0.0	0.0
87.5°	146.9	91.5	110.9	116.4	94.3	47.1	11.1	11.1	0.0	0.0
90°	2.8	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)