

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: P510395

Luminaire Tested: **CTN-CA10-210-722-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510395
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-210-722-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29557 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

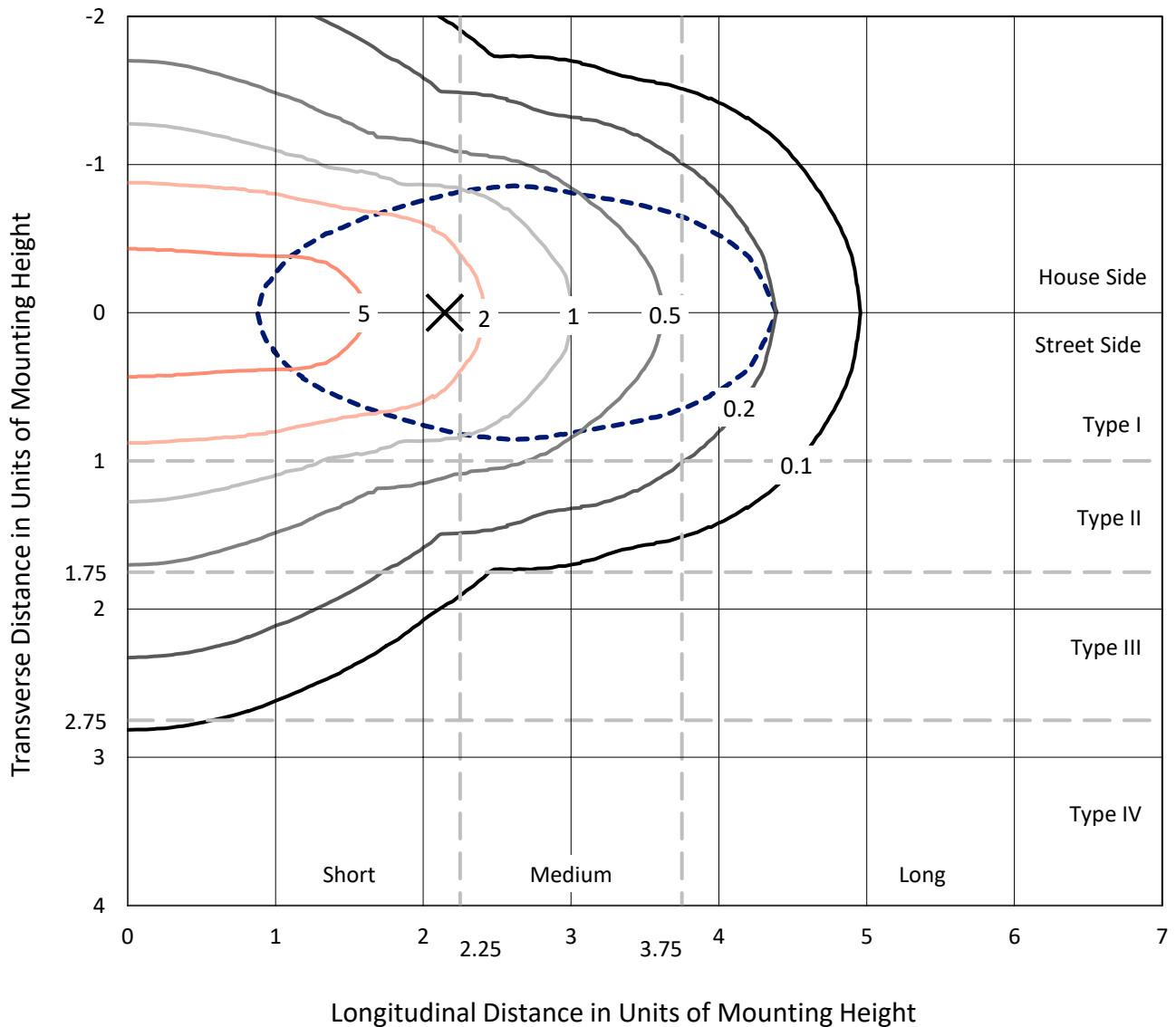
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

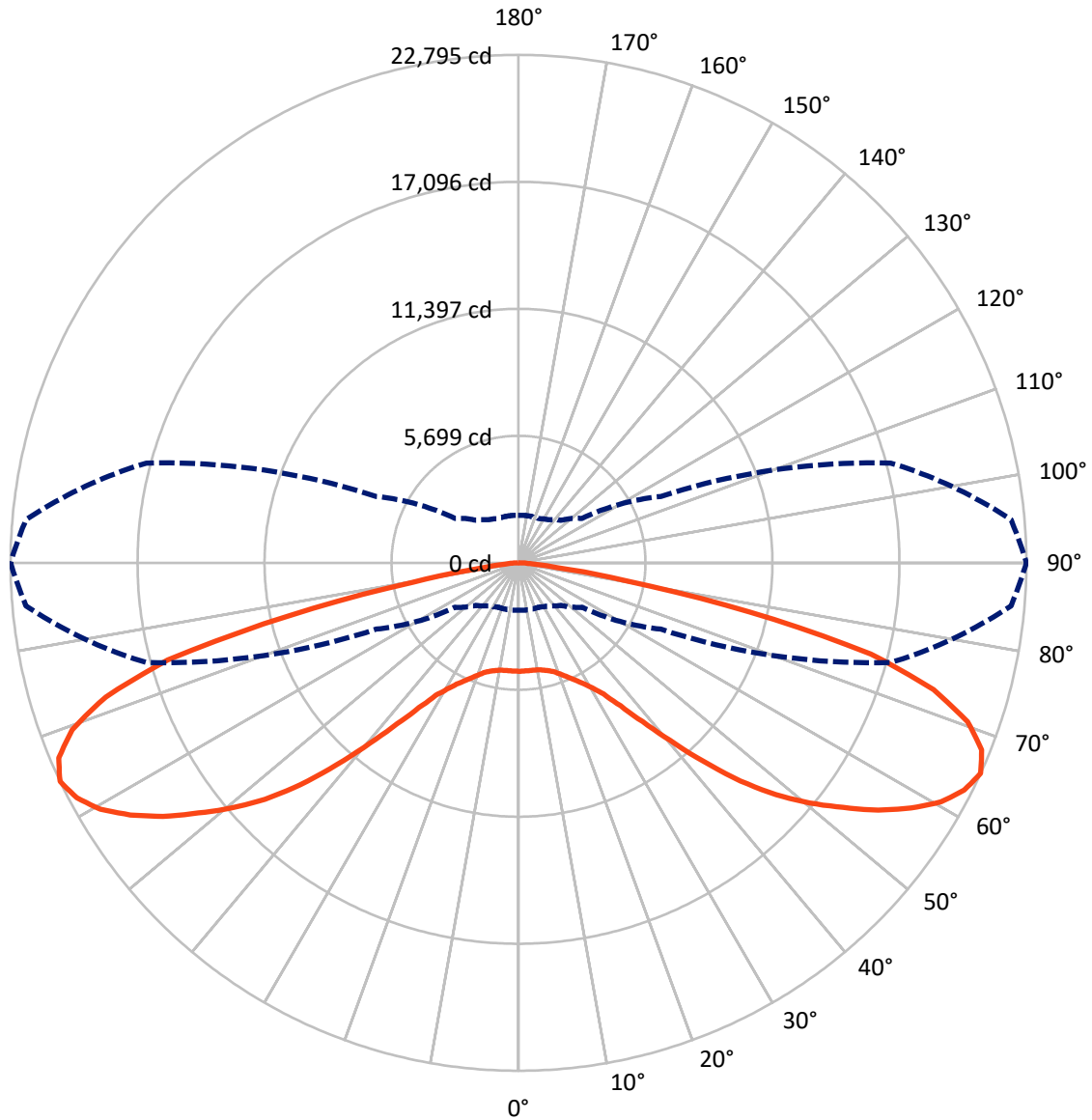
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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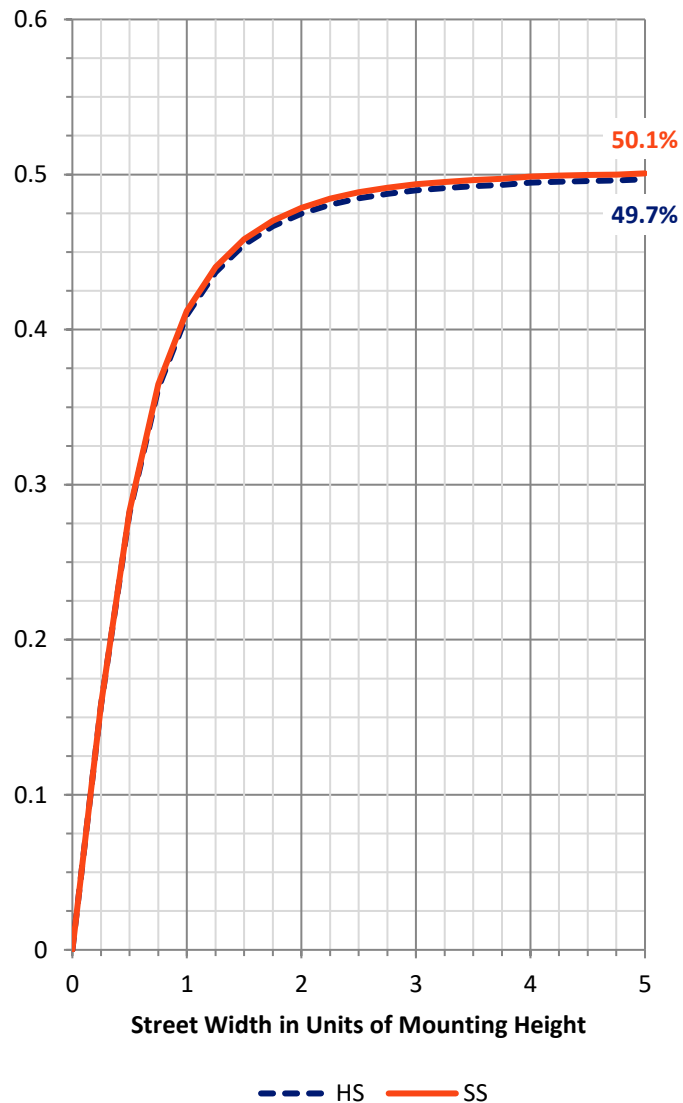
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14778.5	0.0	14778.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14778.5	0.0	14778.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29557.0	0.0	29557.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.1	1.6
10°-20°	1363.6	4.6
20°-30°	2246.3	7.6
30°-40°	3291.0	11.1
40°-50°	4866.2	16.5
50°-60°	6383.1	21.6
60°-70°	6659.4	22.5
70°-80°	3828.8	13.0
80°-90°	456.4	1.5
90°-100°	0.0	0.0
100°-110°	0.0	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°	29557.0	100.0
0°-180°	29557.0	100.0

Coefficient of Utilization

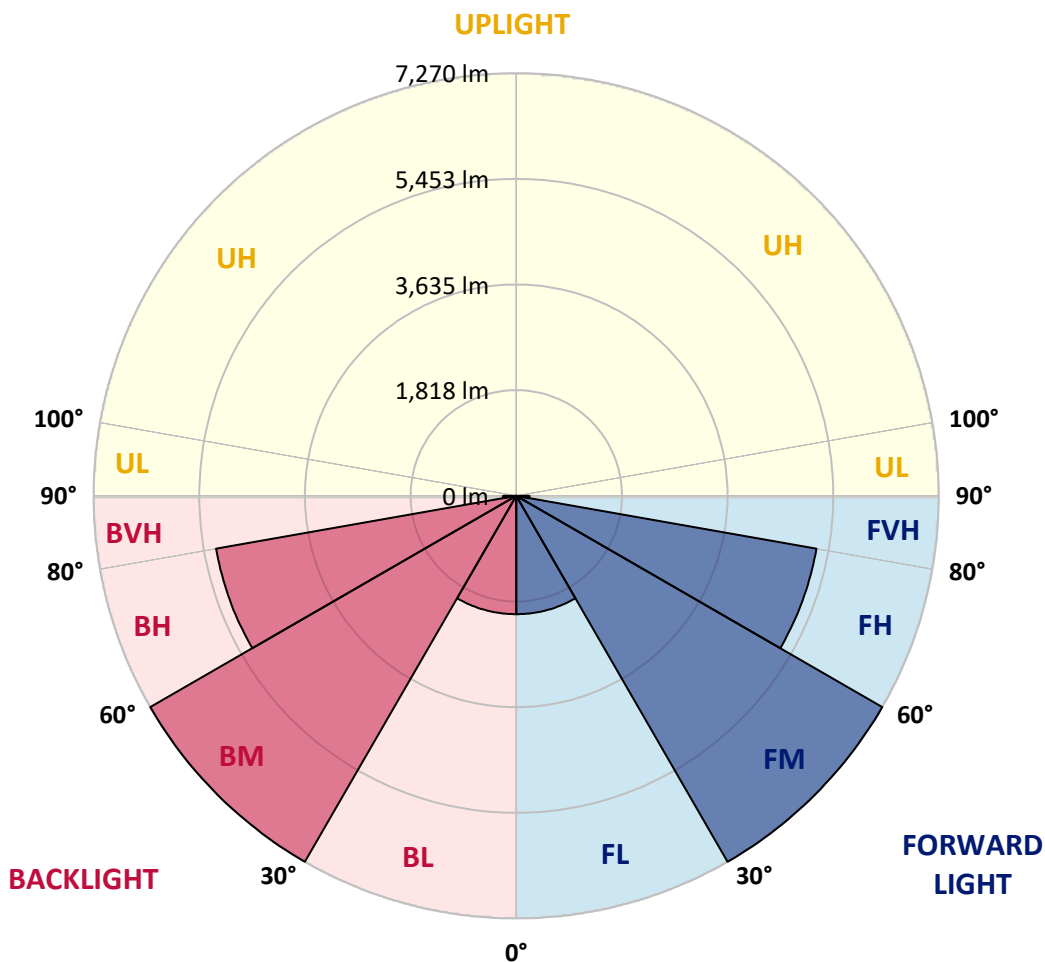


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2036.0	6.9			
FM (30°-60°)	7270.2	24.6			
FH (60°-80°)	5244.1	17.7			G3/7500
FVH (80°-90°)	228.2	0.8			G3/500
BL (0°-30°)	2036.0	6.9	B3/2500		
BM (30°-60°)	7270.2	24.6	B4/8500		
BH (60°-80°)	5244.1	17.7	B5		G5
BVH (80°-90°)	228.2	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4
2.5°	4868.3	4864.8	4863.7	4861.9	4864.8	4867.1	4872.9	4878.1	4876.9	4875.8	4876.9
5°	4841.1	4842.9	4843.4	4844.0	4846.3	4848.1	4856.1	4864.2	4863.1	4861.9	4867.7
7.5°	4803.0	4803.0	4801.8	4800.7	4805.3	4809.3	4817.4	4825.5	4831.9	4837.7	4846.9
10°	4747.5	4745.2	4744.6	4744.1	4749.3	4753.9	4768.9	4783.9	4796.6	4808.8	4824.4
12.5°	4679.9	4679.4	4680.5	4681.7	4692.7	4703.6	4729.0	4754.5	4779.9	4805.3	4827.8
15°	4599.6	4592.7	4598.5	4603.7	4621.6	4638.9	4688.0	4737.1	4775.8	4814.0	4857.9
17.5°	4477.2	4470.2	4478.9	4487.0	4522.8	4558.6	4627.9	4696.7	4769.5	4842.3	4905.2
20°	4291.7	4291.7	4313.7	4335.6	4396.3	4457.0	4552.3	4647.0	4745.2	4843.4	4934.7
22.5°	4094.2	4088.4	4135.2	4182.0	4254.8	4327.0	4447.1	4567.3	4697.3	4826.7	4952.0
25°	3871.2	3881.0	3939.9	3998.3	4100.5	4202.2	4350.1	4497.4	4660.9	4824.4	4998.3
27.5°	3682.8	3684.6	3755.6	3826.7	3954.9	4082.6	4262.3	4441.9	4641.2	4840.5	5059.5
30°	3488.1	3519.9	3595.0	3669.5	3812.8	3956.1	4173.3	4389.9	4626.2	4862.5	5129.4
32.5°	3338.5	3346.0	3431.0	3515.3	3664.9	3814.5	4067.0	4319.5	4603.1	4886.8	5211.4
35°	3197.6	3209.7	3288.8	3368.0	3524.0	3679.4	3956.1	4232.2	4571.3	4909.9	5300.4
37.5°	3072.2	3087.2	3162.3	3237.4	3387.6	3537.8	3831.3	4124.8	4522.2	4919.7	5398.0
40°	2980.4	2993.1	3056.6	3120.2	3255.9	3391.1	3698.4	4005.2	4453.5	4901.8	5474.9
42.5°	2913.9	2919.7	2971.1	3022.5	3143.8	3265.2	3569.6	3873.5	4363.9	4854.4	5534.4
45°	2823.8	2836.5	2887.3	2937.6	3046.8	3155.4	3433.8	3712.3	4231.1	4749.3	5534.9
47.5°	2756.8	2764.9	2812.8	2860.2	2961.9	3063.5	3313.7	3563.8	4080.9	4597.3	5472.5
50°	2707.7	2703.6	2748.1	2792.0	2878.1	2963.6	3186.6	3409.0	3894.8	4380.7	5316.6
52.5°	2637.8	2642.4	2678.2	2714.0	2788.6	2862.5	3062.4	3261.7	3688.6	4115.0	5063.5
55°	2544.2	2565.6	2595.6	2625.1	2690.3	2755.6	2935.3	3115.0	3482.4	3849.2	4737.7
57.5°	2452.3	2467.9	2493.4	2518.8	2570.2	2621.0	2790.3	2959.6	3265.2	3570.8	4326.4
60°	2377.2	2381.3	2397.5	2413.1	2452.3	2491.6	2631.4	2771.2	3038.1	3304.4	3916.2
62.5°	2280.2	2281.3	2292.3	2303.3	2327.6	2351.2	2461.0	2570.2	2797.8	3025.4	3508.4
65°	2128.2	2137.5	2147.9	2157.7	2173.9	2189.5	2273.2	2357.0	2527.4	2697.9	3087.2
67.5°	1974.6	1966.5	1978.6	1990.8	1993.1	1995.4	2058.9	2122.5	2262.3	2402.1	2715.2
70°	1724.4	1730.8	1729.6	1727.9	1718.1	1707.7	1752.2	1796.6	1870.6	1944.0	2170.4
72.5°	1322.4	1313.7	1291.7	1269.2	1258.8	1248.4	1300.4	1351.8	1406.1	1460.4	1623.9
75°	808.2	833.0	878.7	923.7	941.1	958.4	955.5	952.0	947.4	942.8	1146.7
77.5°	547.7	560.9	571.3	581.2	606.6	631.4	660.3	689.2	688.6	688.0	816.3
80°	348.4	338.0	342.6	347.2	361.6	376.1	420.0	463.3	475.4	487.0	575.4
82.5°	218.4	220.1	225.9	231.1	214.9	198.7	232.8	266.3	295.2	323.5	364.5
85°	141.5	160.6	157.7	154.8	135.8	116.7	146.7	176.8	190.6	203.9	219.5
87.5°	45.6	53.1	54.9	56.0	56.0	55.5	61.8	68.2	70.5	72.2	78.0
90°	0.0	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	0.0
95°	0.0	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	0.0
100°	0.0	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	0.0
105°	0.0	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	0.0
110°	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):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4
2.5°	4877.5	4871.7	4866.0	4864.2	4862.5	4861.3	4860.2	4859.0
5°	4872.9	4871.7	4870.6	4866.0	4861.3	4860.8	4860.2	4861.9
7.5°	4856.1	4856.1	4856.1	4861.3	4866.5	4864.2	4861.3	4864.8
10°	4839.4	4853.3	4867.1	4871.2	4875.2	4878.1	4881.0	4883.9
12.5°	4850.4	4874.0	4897.2	4910.4	4923.7	4930.7	4937.0	4938.8
15°	4901.8	4931.8	4961.9	4979.8	4997.1	5008.7	5020.2	5023.1
17.5°	4968.2	5014.4	5060.1	5086.1	5112.1	5125.3	5138.1	5134.0
20°	5025.4	5089.0	5152.5	5208.0	5263.4	5294.0	5324.1	5327.5
22.5°	5076.8	5183.7	5290.6	5362.2	5433.3	5487.6	5541.9	5547.6
25°	5171.6	5311.4	5451.2	5565.6	5679.9	5729.6	5778.7	5807.6
27.5°	5277.9	5465.0	5652.2	5805.3	5958.4	6034.1	6109.2	6113.2
30°	5395.7	5633.1	5870.0	6075.7	6280.7	6373.2	6465.0	6513.6
32.5°	5535.5	5837.1	6138.1	6408.4	6678.8	6819.2	6959.5	7008.6
35°	5690.3	6081.4	6472.0	6844.6	7216.6	7485.3	7753.9	7883.3
37.5°	5876.4	6374.3	6872.3	7432.1	7991.9	8450.0	8907.5	9038.1
40°	6047.9	6688.6	7328.7	8106.3	8883.9	9610.6	10336.8	10478.3
42.5°	6214.3	6989.6	7764.9	8825.5	9886.2	10859.0	11831.9	12199.9
45°	6320.0	7257.6	8194.7	9593.3	10991.9	12327.5	13662.6	13971.7
47.5°	6347.2	7448.9	8550.5	10283.0	12015.6	13587.5	15158.8	15555.7
50°	6252.4	7548.2	8844.0	11130.5	13416.5	15017.3	16617.5	16943.3
52.5°	6012.1	7516.4	9020.8	11787.4	14554.0	16248.4	17942.8	18238.5
55°	5626.2	7323.5	9020.8	12328.1	15634.9	17392.2	19149.0	19598.5
57.5°	5082.0	6954.9	8827.8	12689.2	16550.5	18459.2	20367.9	20771.8
60°	4528.0	6516.4	8504.3	12888.5	17272.6	19294.6	21316.5	21787.9
62.5°	3990.7	5920.8	7850.4	12679.3	17508.3	19642.9	21777.0	22455.2
65°	3476.6	5259.4	7042.2	12169.2	17295.7	19741.7	22187.1	22794.9
67.5°	3028.3	4706.5	6384.7	11314.2	16243.8	18950.9	21657.4	22414.7
70°	2396.9	3941.1	5485.3	9798.4	14111.5	17281.9	20452.3	21387.0
72.5°	1787.4	3097.0	4406.1	7707.7	11009.2	14655.1	18300.4	19476.6
75°	1350.1	2473.7	3597.3	6092.4	8587.5	11674.1	14760.8	16335.0
77.5°	944.5	1787.4	2629.7	4491.0	6352.4	8061.2	9770.1	10608.9
80°	663.2	1130.6	1597.3	2492.8	3387.6	4145.6	4902.9	4842.9
82.5°	405.0	601.4	797.2	1081.5	1365.7	1548.8	1731.9	1723.9
85°	235.1	286.0	336.2	416.5	496.8	587.5	678.2	603.1
87.5°	83.2	83.2	83.2	95.3	107.5	147.9	188.3	198.7
90°	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
95°	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
100°	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
105°	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
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	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
117.5°	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
122.5°	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
127.5°	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
132.5°	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
137.5°	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
142.5°	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
147.5°	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
152.5°	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
157.5°	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
162.5°	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
167.5°	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
172.5°	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
177.5°	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

(END OF REPORT)