

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: P510425

Luminaire Tested: **CTN-CA10-210-740-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510425
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-CA10-210-740-U-T1
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36266 lumens
Efficiency: N/A
Efficacy: 170.3 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

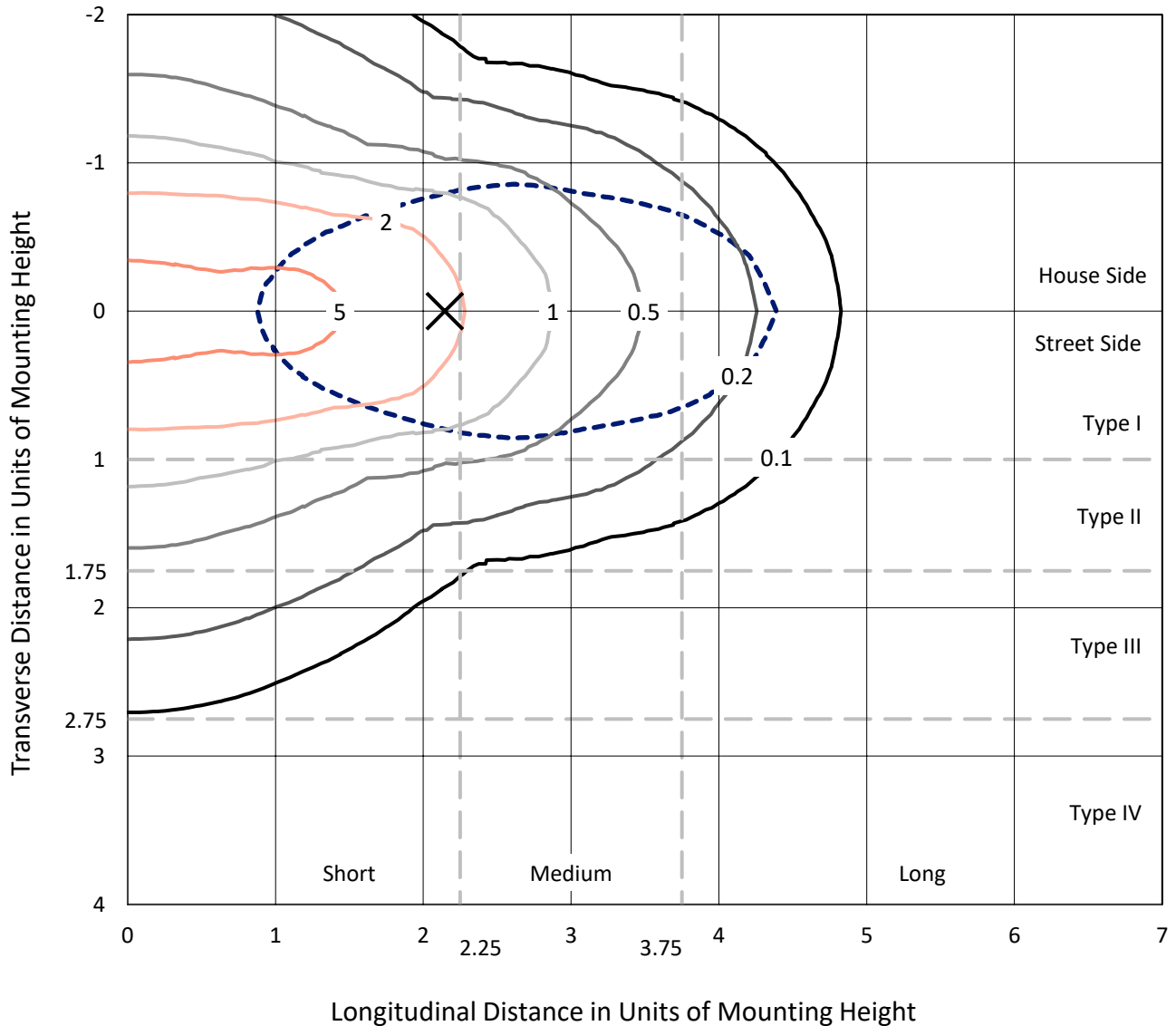
Input Watts (W): 212.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

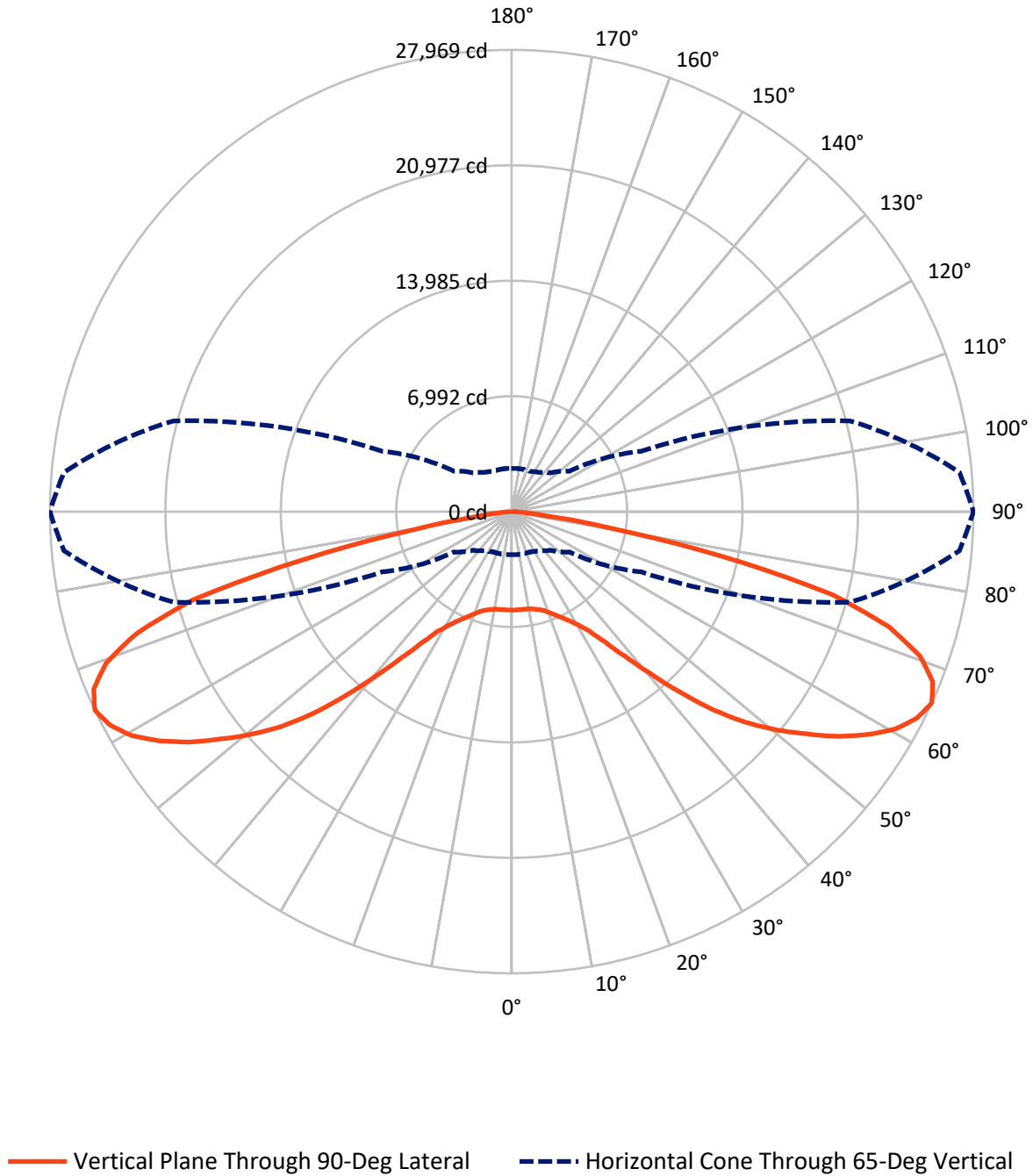
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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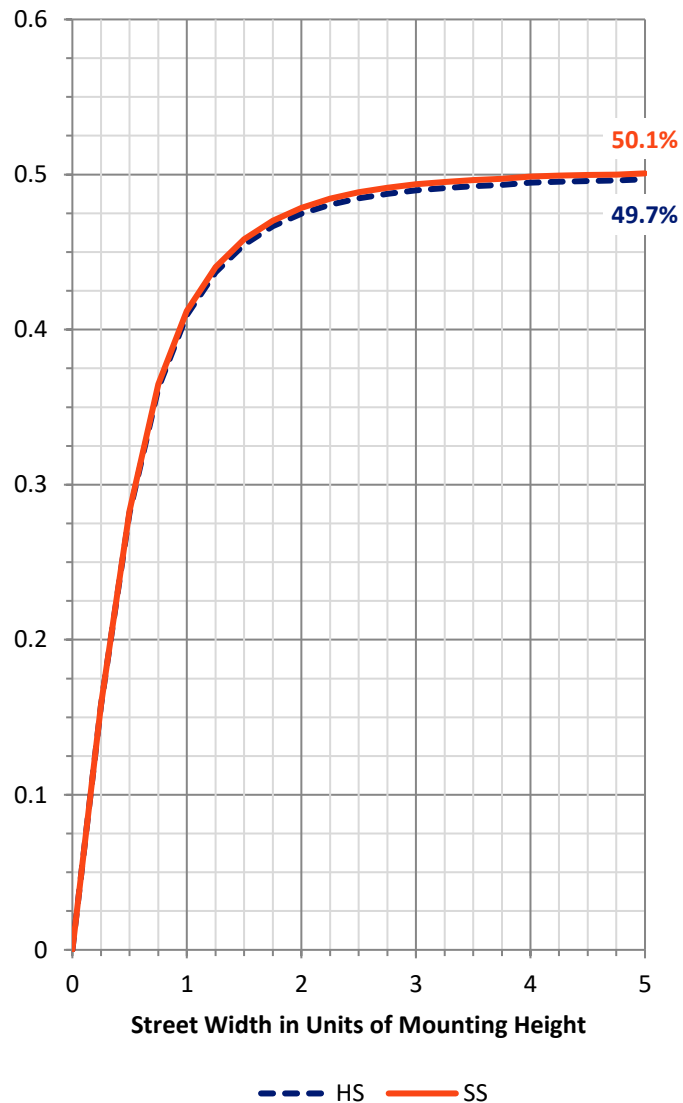
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18133.0	0.0	18133.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18133.0	0.0	18133.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36266.0	0.0	36266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.0	1.6
10°-20°	1673.2	4.6
20°-30°	2756.1	7.6
30°-40°	4038.1	11.1
40°-50°	5970.7	16.5
50°-60°	7832.0	21.6
60°-70°	8171.0	22.5
70°-80°	4697.9	13.0
80°-90°	560.0	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°	36266.0	100.0
0°-180°	36266.0	100.0

Coefficient of Utilization

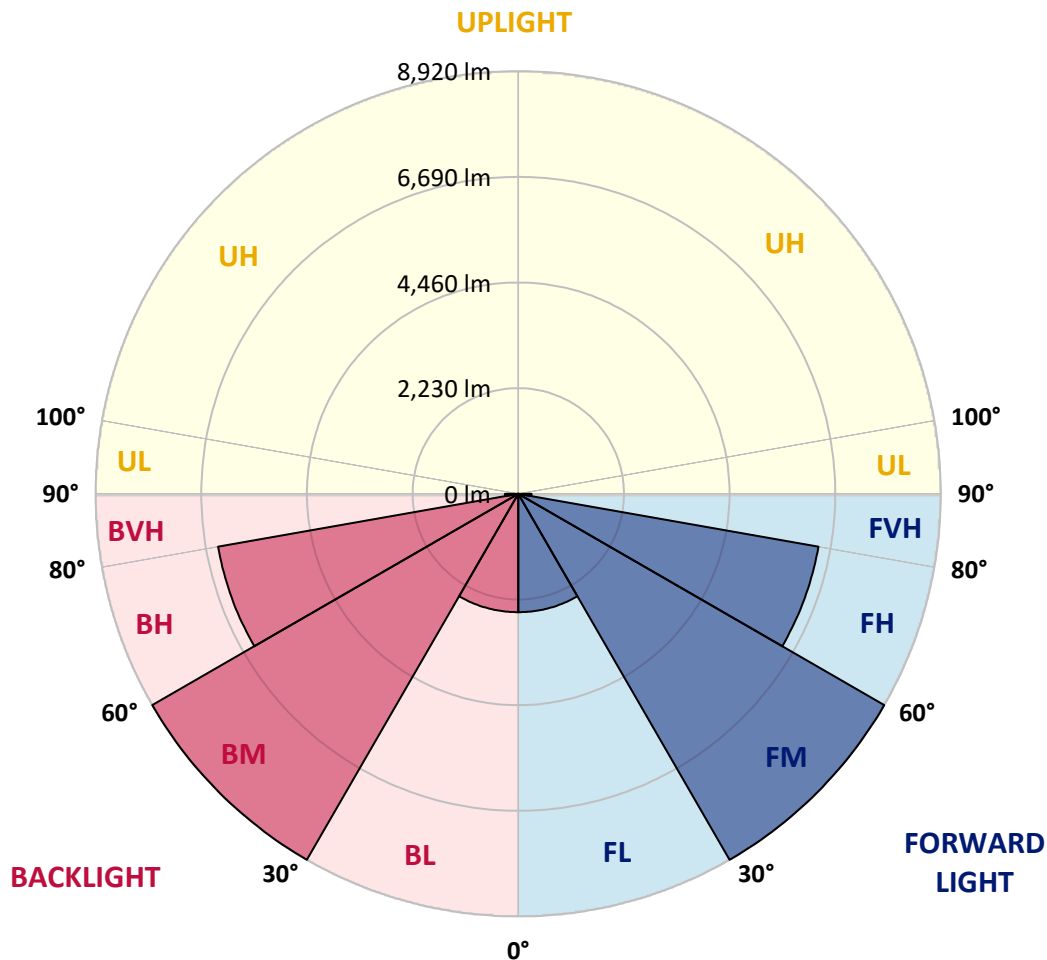


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2498.1	6.9			
FM (30°-60°)	8920.4	24.6			
FH (60°-80°)	6434.5	17.7			G3/7500
FVH (80°-90°)	280.0	0.8			G3/500
BL (0°-30°)	2498.1	6.9	B3/2500		
BM (30°-60°)	8920.4	24.6	B5		
BH (60°-80°)	6434.5	17.7	B5		G5
BVH (80°-90°)	280.0	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°	5974.7	5974.7	5974.7	5974.7	5974.7	5974.7	5974.7	5974.7	5974.7	5974.7	5974.7
2.5°	5973.3	5969.0	5967.6	5965.5	5969.0	5971.9	5979.0	5985.3	5983.9	5982.5	5983.9
5°	5940.0	5942.1	5942.8	5943.5	5946.4	5948.5	5958.4	5968.3	5966.9	5965.5	5972.6
7.5°	5893.2	5893.2	5891.8	5890.4	5896.0	5901.0	5910.9	5920.8	5928.6	5935.7	5947.1
10°	5825.2	5822.3	5821.6	5820.9	5827.3	5833.0	5851.4	5869.8	5885.4	5900.3	5919.4
12.5°	5742.2	5741.5	5742.9	5744.3	5757.8	5771.3	5802.5	5833.7	5864.8	5896.0	5923.7
15°	5643.7	5635.2	5642.3	5648.7	5670.6	5691.9	5752.1	5812.4	5859.9	5906.7	5960.5
17.5°	5493.4	5484.9	5495.5	5505.5	5549.4	5593.4	5678.4	5762.8	5852.1	5941.4	6018.7
20°	5265.9	5265.9	5292.8	5319.8	5394.2	5468.6	5585.6	5701.8	5822.3	5942.8	6054.8
22.5°	5023.5	5016.4	5073.8	5131.2	5220.5	5309.1	5456.6	5604.0	5763.5	5922.3	6076.1
25°	4749.9	4761.9	4834.2	4905.8	5031.3	5156.0	5337.5	5518.2	5718.8	5919.4	6132.8
27.5°	4518.8	4520.9	4608.1	4695.3	4852.6	5009.3	5229.7	5450.2	5694.7	5939.3	6207.9
30°	4279.9	4318.9	4411.0	4502.5	4678.3	4854.1	5120.6	5386.4	5676.3	5966.2	6293.7
32.5°	4096.3	4105.5	4209.7	4313.2	4496.8	4680.4	4990.2	5299.9	5647.9	5996.0	6394.3
35°	3923.4	3938.3	4035.4	4132.5	4323.9	4514.5	4854.1	5192.9	5609.0	6024.3	6503.5
37.5°	3769.6	3788.0	3880.1	3972.3	4156.6	4340.9	4701.0	5061.0	5548.7	6036.4	6623.3
40°	3656.8	3672.4	3750.4	3828.4	3995.0	4160.8	4537.9	4914.3	5464.4	6014.4	6717.6
42.5°	3575.3	3582.4	3645.5	3708.6	3857.4	4006.3	4379.9	4752.7	5354.5	5956.3	6790.6
45°	3464.8	3480.3	3542.7	3604.4	3738.4	3871.6	4213.3	4554.9	5191.5	5827.3	6791.3
47.5°	3382.5	3392.5	3451.3	3509.4	3634.2	3758.9	4065.8	4372.8	5007.2	5640.9	6714.7
50°	3322.3	3317.3	3371.9	3425.8	3531.4	3636.3	3909.9	4182.8	4778.9	5375.0	6523.3
52.5°	3236.5	3242.2	3286.1	3330.1	3421.5	3512.2	3757.5	4002.0	4525.9	5049.0	6212.9
55°	3121.7	3147.9	3184.8	3220.9	3301.0	3381.1	3601.6	3822.0	4272.8	4722.9	5813.1
57.5°	3009.0	3028.1	3059.3	3090.5	3153.6	3216.0	3423.6	3631.3	4006.3	4381.3	5308.4
60°	2916.8	2921.8	2941.6	2960.8	3009.0	3057.2	3228.7	3400.3	3727.7	4054.5	4805.1
62.5°	2797.7	2799.2	2812.6	2826.1	2855.9	2884.9	3019.6	3153.6	3432.9	3712.1	4304.7
65°	2611.3	2622.7	2635.4	2647.5	2667.3	2686.5	2789.2	2892.0	3101.1	3310.2	3788.0
67.5°	2422.8	2412.9	2427.7	2442.6	2445.5	2448.3	2526.3	2604.2	2775.8	2947.3	3331.5
70°	2115.9	2123.7	2122.2	2120.1	2108.1	2095.3	2149.9	2204.5	2295.2	2385.2	2663.1
72.5°	1622.5	1611.9	1584.9	1557.3	1544.5	1531.8	1595.6	1658.7	1725.3	1791.9	1992.5
75°	991.7	1022.1	1078.1	1133.4	1154.7	1175.9	1172.4	1168.1	1162.5	1156.8	1407.0
77.5°	672.0	688.3	701.0	713.1	744.3	774.7	810.2	845.6	844.9	844.2	1001.6
80°	427.4	414.7	420.3	426.0	443.7	461.4	515.3	568.5	583.4	597.5	706.0
82.5°	267.9	270.1	277.2	283.5	263.7	243.8	285.7	326.8	362.2	396.9	447.3
85°	173.7	197.1	193.5	190.0	166.6	143.2	180.0	216.9	233.9	250.2	269.4
87.5°	56.0	65.2	67.3	68.8	68.8	68.0	75.8	83.6	86.5	88.6	95.7
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°	5974.7	5974.7	5974.7	5974.7	5974.7	5974.7	5974.7	5974.7
2.5°	5984.6	5977.6	5970.5	5968.3	5966.2	5964.8	5963.4	5962.0
5°	5979.0	5977.6	5976.1	5970.5	5964.8	5964.1	5963.4	5965.5
7.5°	5958.4	5958.4	5958.4	5964.8	5971.2	5968.3	5964.8	5969.0
10°	5937.9	5954.9	5971.9	5976.8	5981.8	5985.3	5988.9	5992.4
12.5°	5951.3	5980.4	6008.7	6025.0	6041.3	6049.9	6057.6	6059.8
15°	6014.4	6051.3	6088.1	6110.1	6131.4	6145.5	6159.7	6163.3
17.5°	6095.9	6152.6	6208.6	6240.5	6272.4	6288.7	6304.3	6299.4
20°	6166.1	6244.1	6322.0	6390.1	6458.1	6495.7	6532.6	6536.8
22.5°	6229.2	6360.3	6491.5	6579.3	6666.5	6733.2	6799.8	6806.9
25°	6345.4	6517.0	6688.5	6828.9	6969.2	7030.2	7090.4	7125.9
27.5°	6475.9	6705.5	6935.2	7123.0	7310.9	7403.7	7495.9	7500.8
30°	6620.5	6911.8	7202.4	7454.7	7706.4	7819.8	7932.5	7992.0
32.5°	6792.0	7162.0	7531.3	7863.0	8194.8	8367.0	8539.3	8599.5
35°	6982.0	7461.8	7941.0	8398.2	8854.7	9184.3	9513.9	9672.7
37.5°	7210.2	7821.2	8432.2	9119.1	9805.9	10368.0	10929.4	11089.6
40°	7420.7	8206.8	8992.2	9946.3	10900.4	11792.1	12683.1	12856.7
42.5°	7624.9	8576.1	9527.4	10828.8	12130.2	13323.9	14517.5	14969.0
45°	7754.6	8905.0	10054.7	11770.8	13486.9	15125.7	16763.8	17143.0
47.5°	7787.9	9139.6	10491.4	12617.1	14742.9	16671.6	18599.7	19086.6
50°	7671.7	9261.6	10851.5	13657.0	16461.8	18426.0	20389.5	20789.2
52.5°	7376.8	9222.6	11068.4	14462.9	17857.5	19936.5	22015.5	22378.4
55°	6903.3	8985.8	11068.4	15126.4	19183.7	21340.0	23495.5	24047.0
57.5°	6235.6	8533.6	10831.6	15569.4	20307.2	22649.2	24991.2	25486.6
60°	5555.8	7995.6	10434.7	15814.0	21193.3	23674.2	26155.1	26733.5
62.5°	4896.6	7264.8	9632.3	15557.4	21482.5	24101.6	26720.0	27552.2
65°	4265.7	6453.2	8640.6	14931.5	21221.6	24222.8	27223.3	27969.0
67.5°	3715.7	5774.8	7834.0	13882.4	19930.8	23252.4	26573.3	27502.5
70°	2940.9	4835.6	6730.3	12022.4	17314.6	21204.6	25094.7	26241.5
72.5°	2193.1	3800.0	5406.2	9457.2	13508.1	17981.6	22454.3	23897.4
75°	1656.5	3035.2	4413.9	7475.3	10536.7	14324.0	18111.3	20042.8
77.5°	1158.9	2193.1	3226.6	5510.4	7794.3	9891.0	11987.7	13016.9
80°	813.7	1387.2	1959.9	3058.6	4156.6	5086.6	6015.8	5942.1
82.5°	496.9	737.9	978.2	1326.9	1675.7	1900.4	2125.1	2115.1
85°	288.5	350.9	412.5	511.1	609.6	720.9	832.2	740.0
87.5°	102.1	102.1	102.1	117.0	131.8	181.5	231.1	243.8
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)