

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: P579639

Luminaire Tested: **CTN-CA10-760-727-U-T5N-HSS-HM-EX90**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579639
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-CA10-760-727-U-T5N-HSS-HM-EX90
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 2700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 74377 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U2 - G5

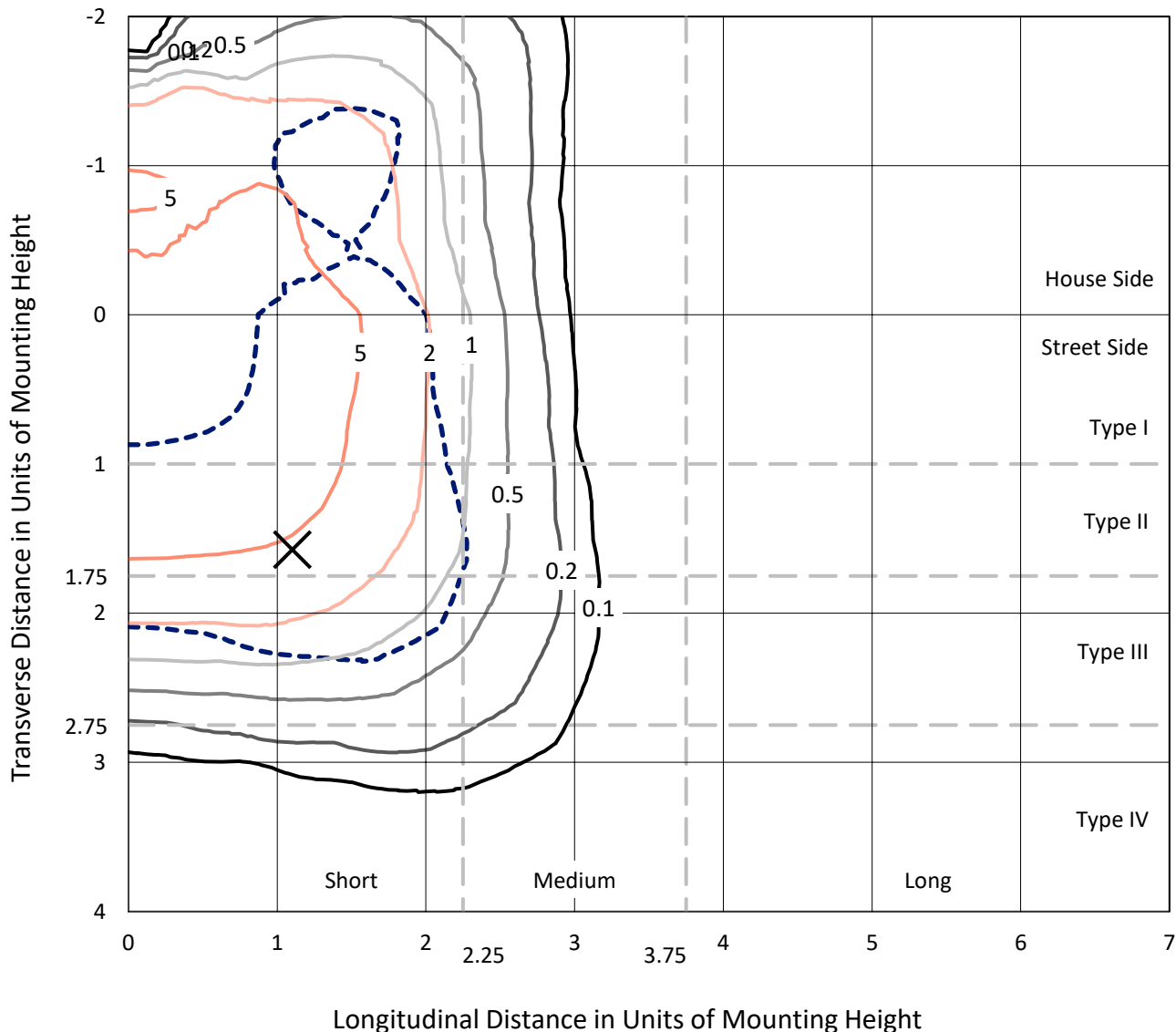
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

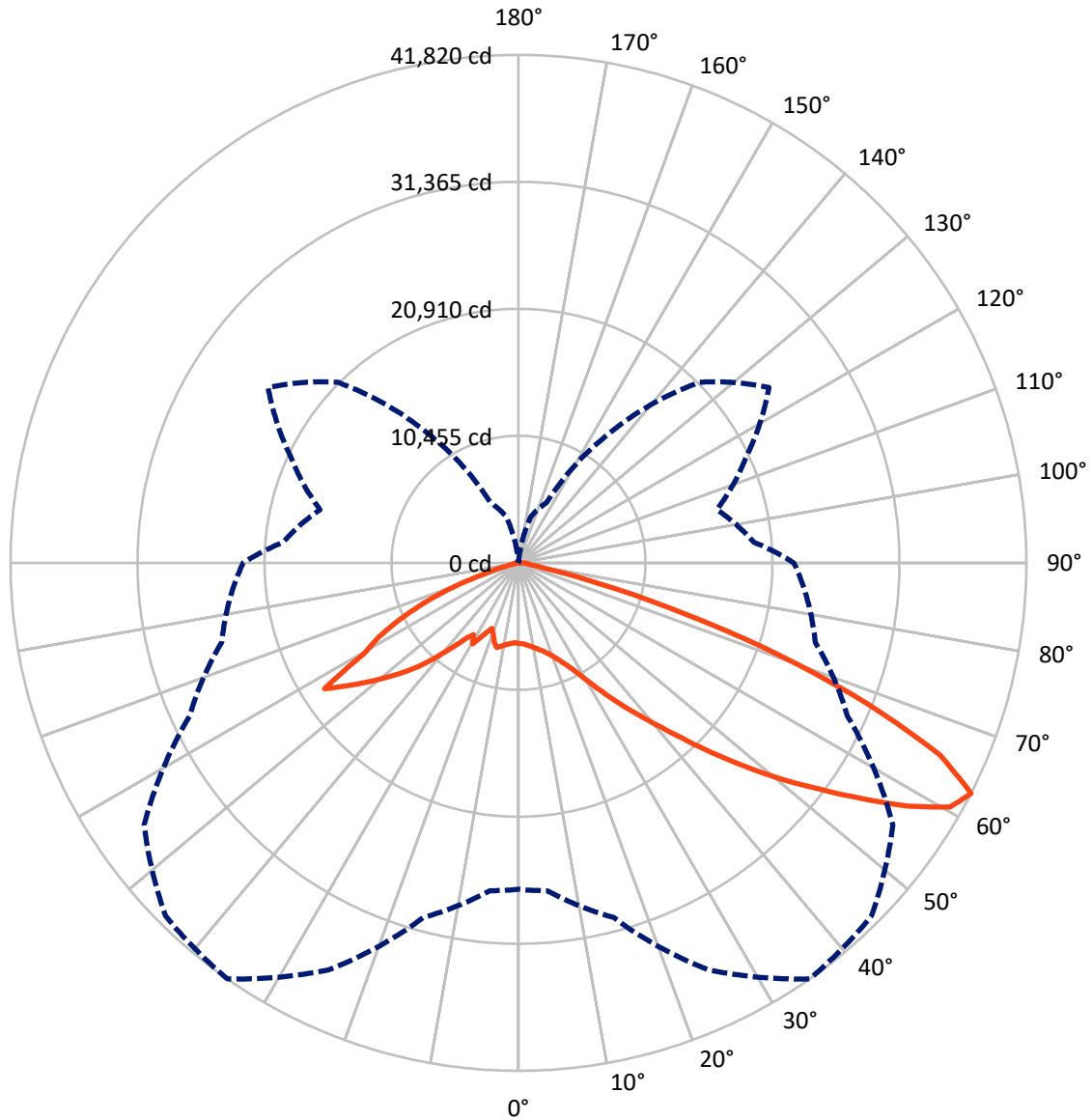
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10 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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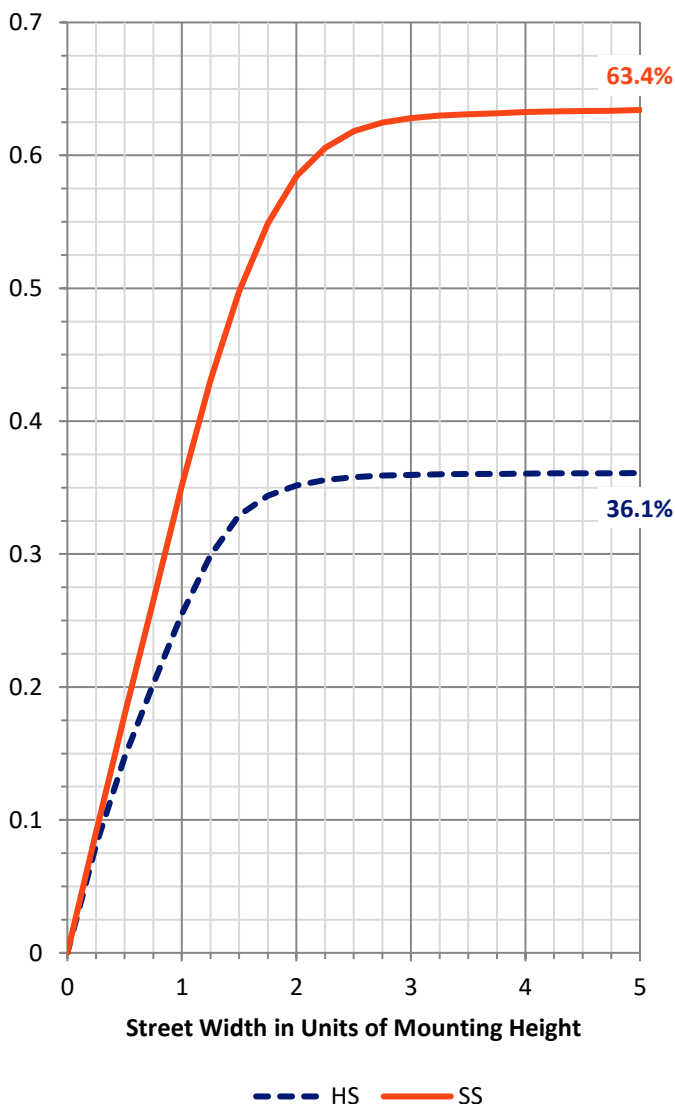
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26997.1	0.1	26997.1
	% Fixture	36.3	0.0	36.3
Street Side	Lumens	47344.6	35.2	47379.9
	% Fixture	63.7	0.0	63.7
Total	Lumens	74341.7	35.3	74377.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	654.3	0.9
10°-20°	2114.6	2.8
20°-30°	4068.1	5.5
30°-40°	8115.5	10.9
40°-50°	14818.5	19.9
50°-60°	22144.0	29.8
60°-70°	18554.6	24.9
70°-80°	3472.3	4.7
80°-90°	399.7	0.5
90°-100°	31.8	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°	74341.7	100.0
0°-180°	74377.0	100.0

Coefficient of Utilization

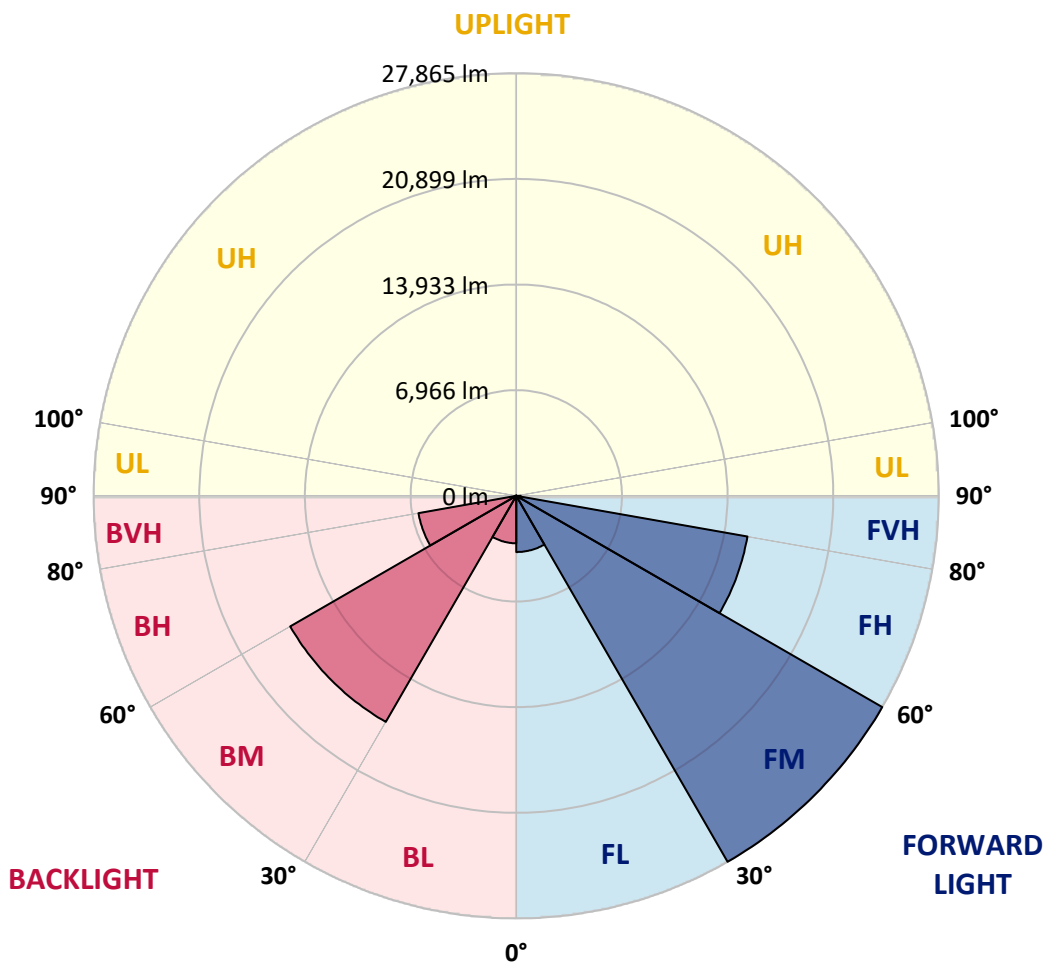


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3708.6	5.0			
FM (30°-60°)	27865.0	37.5			
FH (60°-80°)	15480.0	20.8			G5
FVH (80°-90°)	291.1	0.4			G3/500
BL (0°-30°)	3128.4	4.2	B4/5000		
BM (30°-60°)	17213.0	23.1	B5		
BH (60°-80°)	6547.0	8.8	B5		G5
BVH (80°-90°)	108.6	0.1			G2/225
UL (90°-100°)	31.8	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°	6655.0	6655.0	6655.0	6655.0	6655.0	6655.0	6655.0	6655.0	6655.0	6655.0	6655.0
2.5°	6797.2	6741.4	6749.8	6788.8	6666.1	6716.3	6663.4	6713.5	6696.8	6719.1	6735.8
5°	6894.8	6825.1	6830.6	6875.2	6780.5	6822.3	6769.3	6802.8	6774.9	6805.5	6808.3
7.5°	7028.6	6970.0	6961.7	7006.3	6925.4	6961.7	6908.7	6925.4	6897.6	6933.8	6922.6
10°	7207.0	7154.0	7140.1	7170.8	7106.7	7126.2	7070.4	7092.7	7050.9	7092.7	7073.2
12.5°	7405.0	7335.3	7338.1	7371.5	7307.4	7321.3	7276.7	7301.8	7251.6	7296.2	7282.3
15°	7639.2	7538.8	7558.3	7594.6	7533.2	7575.0	7522.1	7558.3	7510.9	7558.3	7541.6
17.5°	7943.1	7828.7	7842.7	7901.2	7851.1	7918.0	7856.6	7901.2	7878.9	7909.6	7904.0
20°	8327.8	8252.5	8238.6	8311.1	8238.6	8322.2	8288.8	8366.8	8372.4	8403.1	8417.0
22.5°	8840.8	8790.6	8757.2	8807.3	8743.2	8801.8	8849.2	8983.0	9033.2	9114.0	9119.6
25°	9523.9	9521.1	9445.8	9448.6	9367.7	9445.8	9579.6	9788.7	9922.6	10025.7	9986.7
27.5°	10446.7	10463.4	10349.1	10304.5	10209.7	10326.8	10602.8	10862.1	11104.7	11249.6	11249.6
30°	11651.1	11667.8	11500.6	11411.4	11324.9	11528.4	11857.4	12194.8	12540.5	12749.6	12702.2
32.5°	13245.9	13192.9	12953.1	12791.4	12643.7	12877.8	13257.0	13639.0	14110.2	14411.3	14375.0
35°	15180.7	14988.4	14748.6	14447.5	14129.7	14313.7	14670.5	15150.1	15805.3	16256.9	16142.6
37.5°	17427.9	17238.3	16828.5	16309.9	15755.1	15777.4	16059.0	16889.8	17709.5	18077.5	17999.4
40°	19761.5	19613.7	19237.3	18571.0	17567.3	17335.9	17798.7	18799.6	19583.0	20045.8	19914.8
42.5°	22139.6	21989.1	21704.7	21035.6	19705.7	19148.1	19630.4	20720.5	21556.9	22011.4	21860.8
45°	24512.2	24339.4	24113.6	23522.5	22253.9	21437.1	21707.5	22708.4	23472.3	23988.1	23678.6
47.5°	26597.7	26483.4	26330.0	26090.3	24980.6	24077.3	24057.8	24718.6	25245.5	25585.6	25206.5
50°	28412.7	28331.8	28418.3	28368.1	27963.8	27141.3	26636.7	26592.1	26762.2	27010.3	26469.4
52.5°	30040.9	29898.7	30219.3	30618.0	30916.3	30749.0	29115.3	28198.0	28011.2	28094.8	27481.5
55°	31373.5	31306.6	31844.7	32845.6	34225.7	34593.7	31660.7	29759.3	29070.6	29026.0	28329.0
57.5°	32187.6	32282.4	33358.6	35265.6	37797.1	37914.2	34786.1	31429.3	30102.2	29622.7	28819.7
60°	30891.2	31256.5	33093.8	37027.6	40827.7	40900.2	37080.6	31736.0	28814.1	27740.8	26745.4
62.5°	26882.1	27099.5	30224.9	36969.1	41820.2	41112.1	37627.1	29884.7	25298.5	23586.6	22666.6
65°	18936.2	19343.3	22691.7	33261.0	38109.4	38198.6	34518.4	25839.3	20202.0	18308.9	17715.1
67.5°	11436.4	11826.8	15392.6	24010.4	30980.4	31981.3	28794.6	19563.5	14486.5	12094.4	11495.0
70°	3713.6	4137.4	7014.6	14152.0	22789.2	25189.7	21668.5	12732.9	7586.2	5314.0	4669.9
72.5°	1410.7	1539.0	2283.4	6181.0	14193.8	16817.3	13402.0	6387.3	2350.3	1399.6	1229.5
75°	917.3	936.8	1067.8	2166.3	6844.6	9259.0	6459.8	1870.8	942.3	836.4	775.1
77.5°	789.0	802.9	858.7	1079.0	2180.2	3540.8	1854.0	956.3	786.2	697.0	655.2
80°	744.4	750.0	786.2	914.5	1020.4	1182.1	892.2	800.2	685.9	655.2	624.5
82.5°	705.4	724.9	744.4	830.8	828.0	850.3	716.5	627.3	582.7	613.4	602.2
85°	658.0	669.1	683.1	741.6	674.7	571.5	552.0	432.1	421.0	448.9	421.0
87.5°	462.8	490.7	474.0	499.1	468.4	365.2	309.5	245.3	195.2	161.7	156.1
90°	189.6	192.4	181.2	167.3	147.8	122.7	97.6	61.3	27.9	13.9	5.6
92.5°	147.8	147.8	142.2	128.2	111.5	92.0	69.7	39.0	19.5	8.4	2.8
95°	92.0	94.8	89.2	80.9	69.7	55.8	41.8	22.3	13.9	5.6	2.8
97.5°	58.5	58.5	53.0	47.4	39.0	27.9	19.5	16.7	11.2	5.6	0.0
100°	33.5	33.5	30.7	25.1	19.5	13.9	13.9	11.2	8.4	2.8	0.0
102.5°	19.5	19.5	13.9	11.2	8.4	8.4	8.4	8.4	5.6	2.8	0.0
105°	8.4	8.4	5.6	5.6	2.8	2.8	5.6	5.6	5.6	2.8	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.6	5.6	2.8	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.6	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°	6655.0	6655.0	6655.0	6655.0	6655.0	6655.0	6655.0	6655.0	6655.0	6655.0
2.5°	6724.7	6674.5	6682.9	6635.5	6627.1	6579.7	6674.5	6685.7	6657.8	6682.9
5°	6802.8	6741.4	6760.9	6708.0	6699.6	6635.5	6719.1	6713.5	6691.2	6716.3
7.5°	6919.9	6855.7	6866.9	6808.3	6797.2	6727.5	6805.5	6780.5	6758.2	6788.8
10°	7084.3	7011.9	7017.4	6942.2	6950.5	6858.5	6953.3	6908.7	6880.8	6922.6
12.5°	7282.3	7201.4	7204.2	7126.2	7123.4	7034.2	7117.8	7092.7	7050.9	7115.0
15°	7538.8	7446.8	7438.4	7335.3	7307.4	7207.0	7285.1	7237.7	7209.8	7301.8
17.5°	7898.5	7795.3	7764.6	7639.2	7117.8	6816.7	7234.9	7377.1	7204.2	7176.4
20°	8378.0	8291.6	8221.9	8032.3	7156.8	6217.3	5523.1	5528.6	6259.1	6596.4
22.5°	9027.6	8924.4	8793.4	8523.0	6565.8	5824.2	5827.0	5818.6	4993.3	4644.8
25°	9917.0	9791.5	9523.9	7996.0	6970.0	6284.2	6267.5	5450.6	4996.1	5021.2
27.5°	11118.6	10862.1	9295.2	8662.4	7689.3	6880.8	6479.3	5486.8	5542.6	5581.6
30°	12646.4	11614.9	10045.2	9668.8	8553.6	7672.6	5991.4	6128.1	6239.6	6264.7
32.5°	14213.3	11648.3	11244.1	10845.4	9618.7	6981.2	6752.6	7011.9	7129.0	7142.9
35°	14199.4	13075.8	12554.4	12105.6	10605.6	7469.1	7614.1	8012.8	8311.1	8297.1
37.5°	15027.4	14651.0	14029.3	13460.5	9546.2	8414.2	8673.5	9125.2	9487.6	9476.5
40°	16758.8	16323.8	15665.9	14472.6	10569.4	9496.0	9858.4	10343.5	10600.0	10614.0
42.5°	18395.3	18035.7	17363.8	13521.9	11849.1	10798.0	11127.0	11453.2	11612.1	11662.3
45°	20023.5	19767.0	17531.0	14943.8	13396.4	12108.4	12325.8	12387.2	12554.4	12534.9
47.5°	21345.1	21060.7	16856.3	16728.1	15272.8	13351.8	13335.1	13254.2	13315.6	13329.5
50°	22552.3	19125.8	18211.3	18637.9	17241.1	14620.4	14302.5	14138.0	14054.4	14018.1
52.5°	23505.8	19131.4	19477.1	20611.8	19463.1	15997.6	15314.6	14851.8	13003.3	14450.3
55°	24317.1	19920.4	20675.9	22722.3	21378.5	17439.0	16229.0	15403.8	8679.1	6958.9
57.5°	24782.7	20519.8	21863.6	24699.0	23051.3	19042.2	14941.0	12919.7	4906.9	4901.3
60°	22984.4	19443.6	21830.2	25736.2	22569.0	14770.9	6083.5	5090.9	928.4	953.5
62.5°	19457.6	16914.9	20703.8	25167.4	21018.9	12994.9	5456.1	3920.0	30.7	25.1
65°	15074.8	13494.0	17433.5	22136.8	19123.0	10842.6	4067.7	2824.3	8.4	0.0
67.5°	9861.2	9509.9	12863.9	18356.3	15596.2	8400.3	2729.5	1352.2	5.6	0.0
70°	4204.3	4870.7	8149.4	13310.0	11938.3	5779.6	1315.9	487.9	2.8	0.0
72.5°	1176.5	1558.5	3627.2	7798.1	7508.1	3038.9	513.0	206.3	2.8	0.0
75°	697.0	599.4	1039.9	3111.4	3655.1	1067.8	237.0	158.9	2.8	0.0
77.5°	579.9	468.4	596.6	794.6	1106.8	384.7	200.7	142.2	0.0	0.0
80°	543.7	415.4	515.8	554.8	546.5	320.6	197.9	142.2	0.0	0.0
82.5°	515.8	362.4	426.6	426.6	457.2	295.5	186.8	139.4	0.0	0.0
85°	387.5	253.7	284.4	368.0	329.0	209.1	136.6	111.5	0.0	0.0
87.5°	147.8	92.0	111.5	117.1	94.8	47.4	11.2	11.2	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)