

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: P579392

Luminaire Tested: **CTN-CA10-630-722-U-T5N-HSS-HM-EX180**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579392
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-CA10-630-722-U-T5N-HSS-HM-EX180
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: 50937 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U2 - G4

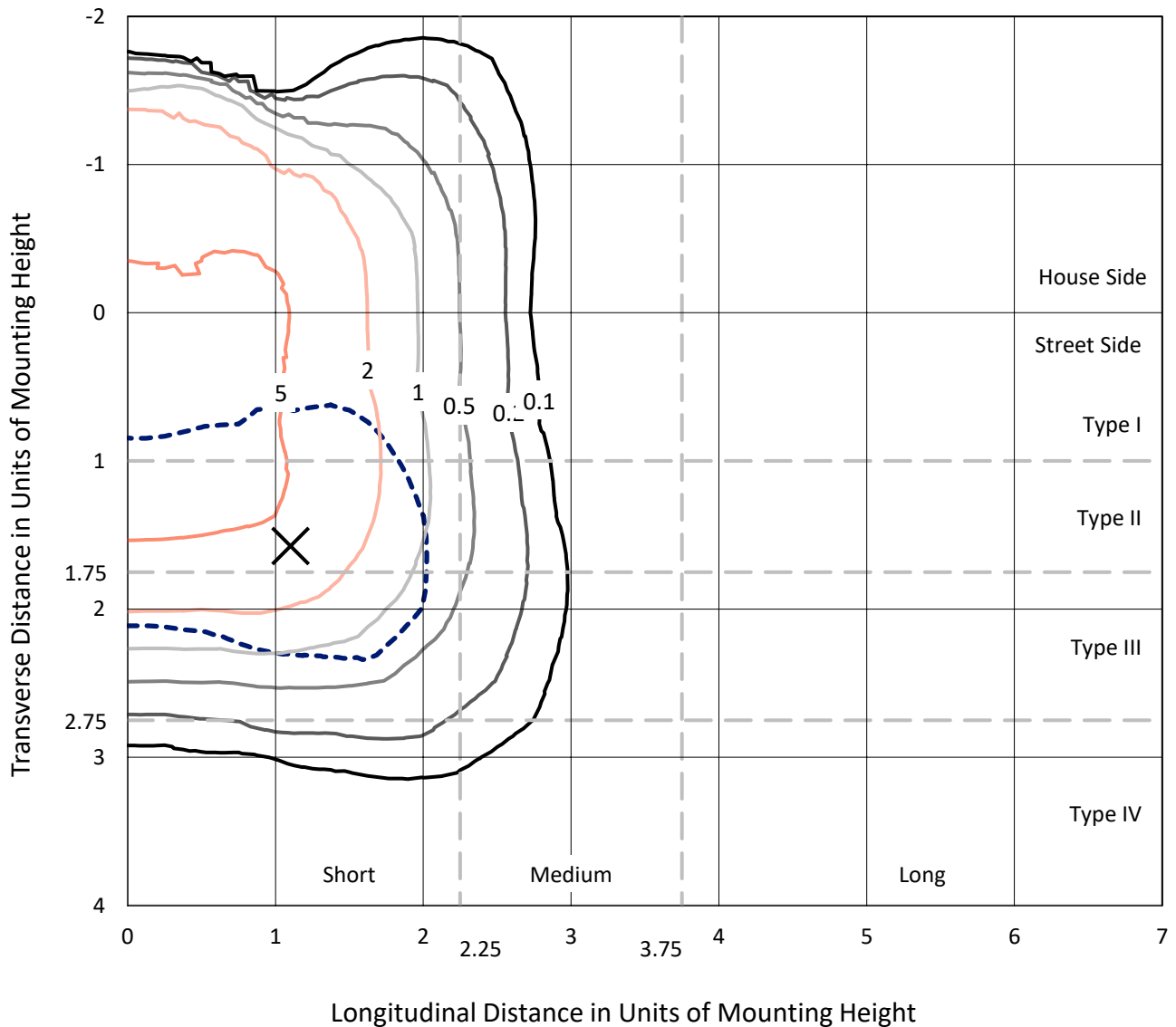
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

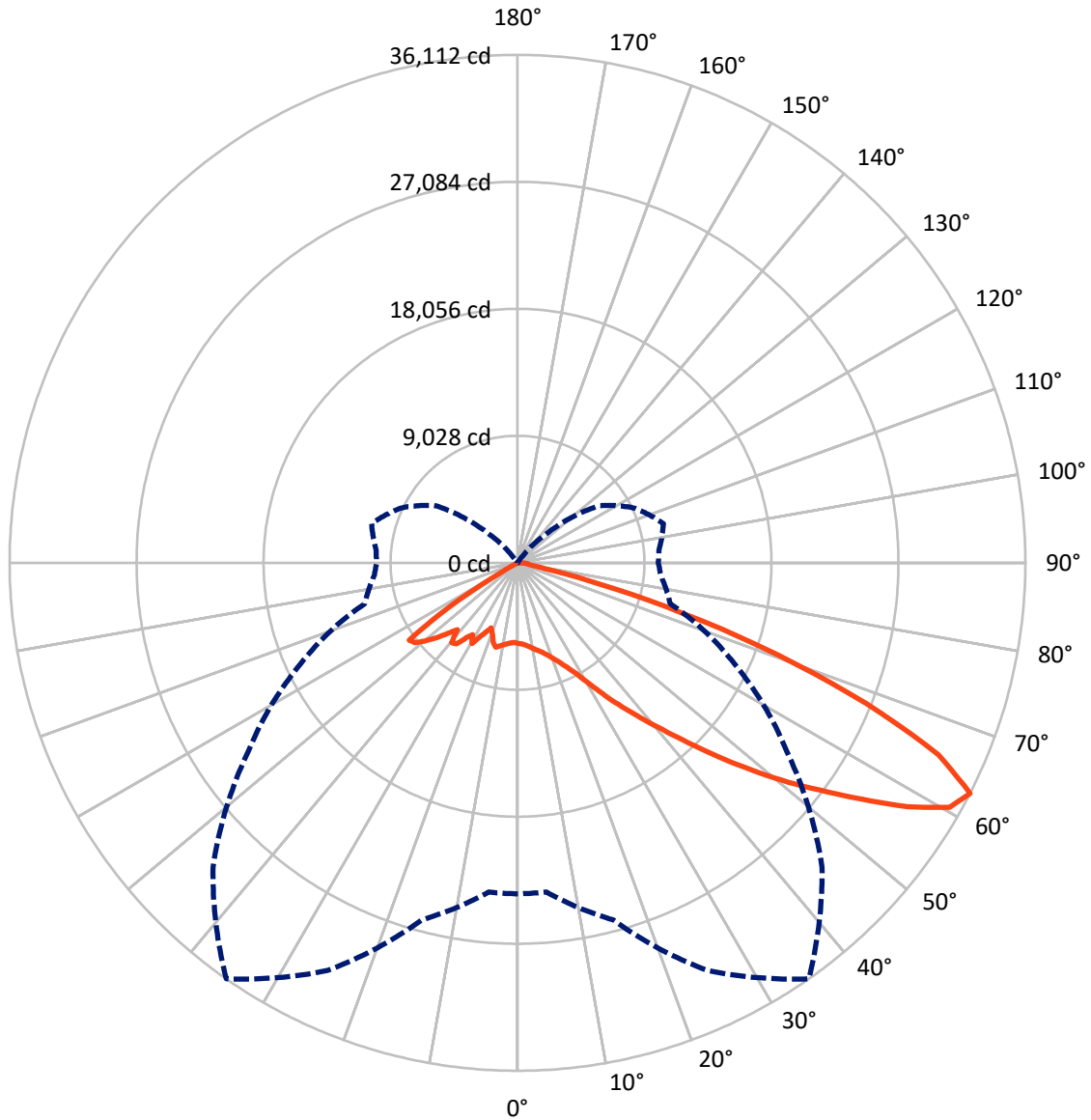
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.7 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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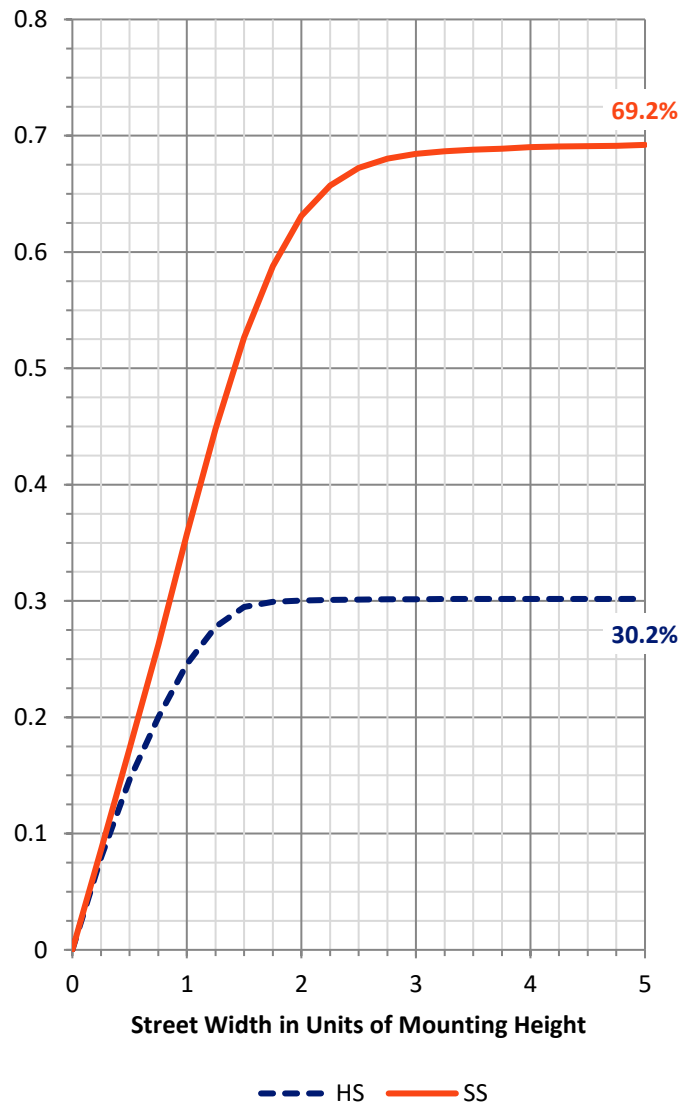
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15459.5	0.0	15459.6
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	35433.2	44.2	35477.4
	% Fixture	69.6	0.1	69.6
Total	Lumens	50892.7	44.2	50937.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	566.0	1.1
10°-20°	1816.4	3.6
20°-30°	3320.0	6.5
30°-40°	6326.7	12.4
40°-50°	10859.3	21.3
50°-60°	14568.0	28.6
60°-70°	11074.6	21.7
70°-80°	2097.0	4.1
80°-90°	264.8	0.5
90°-100°	38.9	0.1
100°-110°	5.3	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°	50892.7	99.9
0°-180°	50937.0	100.0

Coefficient of Utilization

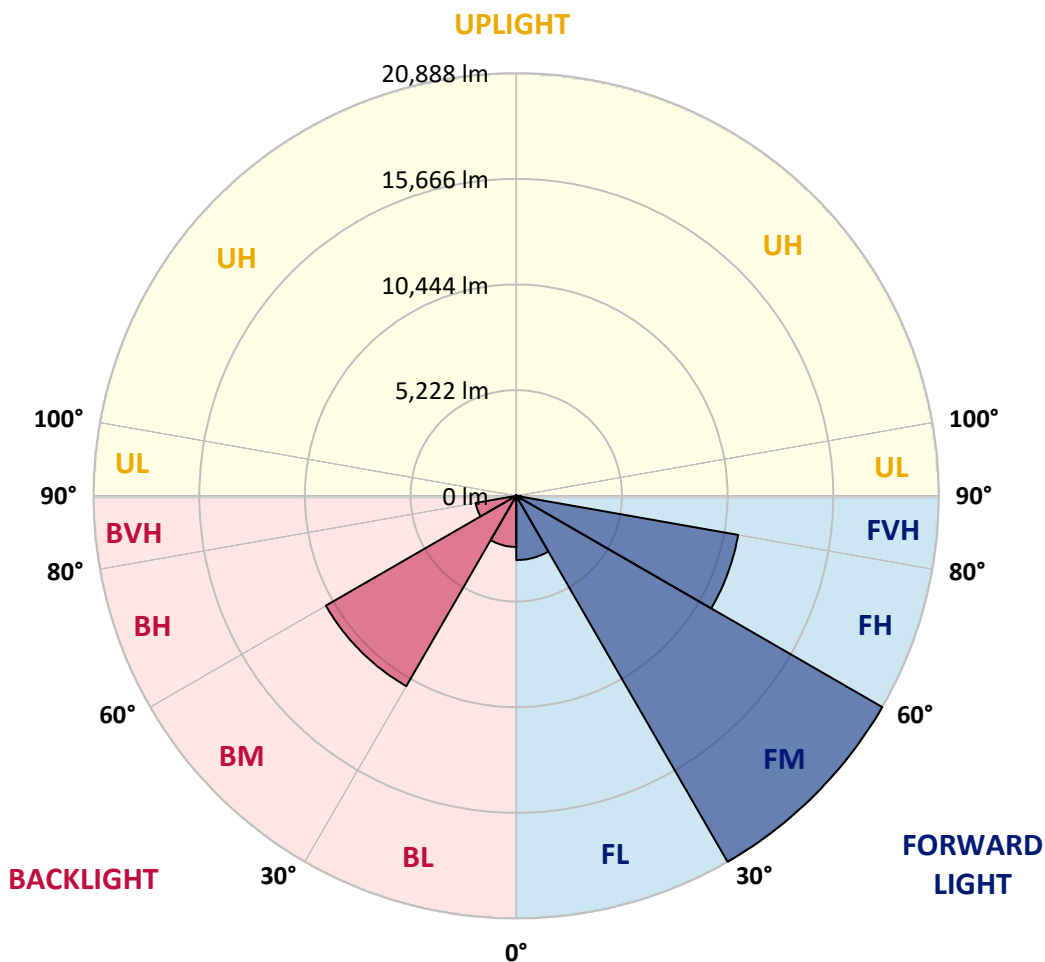


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3175.3	6.2			
FM (30°-60°)	20888.4	41.0			
FH (60°-80°)	11135.8	21.9			G4/12000
FVH (80°-90°)	233.8	0.5			G3/500
BL (0°-30°)	2527.1	5.0	B4/5000		
BM (30°-60°)	10865.6	21.3	B5		
BH (60°-80°)	2035.8	4.0	B3/2500		G3/2500
BVH (80°-90°)	31.0	0.1			G1/100
UL (90°-100°)	38.9	0.1		U2/50	
UH (100°-180°)	5.3	0.0		U1/10	

BUG Rating: B5-U2-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5736.1	5736.1	5736.1	5736.1	5736.1	5736.1	5736.1	5736.1	5736.1	5736.1	5736.1
2.5°	5877.8	5834.6	5837.0	5875.4	5764.9	5805.8	5757.7	5805.8	5779.4	5798.6	5808.2
5°	5981.0	5937.8	5933.0	5973.8	5880.2	5909.0	5861.0	5894.6	5858.6	5882.6	5882.6
7.5°	6137.1	6093.9	6079.5	6110.7	6024.3	6045.9	5995.4	6014.7	5973.8	6005.0	5988.2
10°	6322.0	6274.0	6257.2	6274.0	6199.5	6211.5	6151.5	6173.1	6113.1	6149.1	6125.1
12.5°	6518.9	6456.4	6456.4	6470.9	6391.6	6394.0	6338.8	6350.8	6290.8	6329.2	6300.4
15°	6732.6	6662.9	6672.5	6687.0	6602.9	6617.3	6559.7	6578.9	6516.5	6554.9	6526.1
17.5°	7015.9	6941.5	6931.9	6975.1	6895.8	6922.3	6857.4	6881.4	6826.2	6838.2	6823.8
20°	7407.3	7313.6	7292.0	7349.6	7260.8	7280.0	7232.0	7280.0	7222.4	7135.9	6893.4
22.5°	7875.5	7793.8	7757.8	7796.2	7690.6	7724.2	7721.8	7798.6	7640.2	7095.1	6852.6
25°	8492.5	8437.3	8367.7	8372.5	8245.2	8295.7	8386.9	8446.9	7772.2	7294.4	7299.2
27.5°	9316.1	9260.9	9164.8	9128.8	8943.9	9066.4	9208.1	8622.2	8091.6	8214.0	8146.8
30°	10367.8	10358.2	10163.7	10101.3	9899.6	10053.2	9930.8	8927.1	9109.6	9280.1	9176.8
32.5°	11767.6	11700.4	11419.4	11306.6	11095.3	11184.1	10103.7	9959.6	10230.9	10461.4	10353.4
35°	13460.3	13256.2	12970.5	12747.2	12379.9	11885.2	10761.5	11042.5	11448.3	11765.2	11241.8
37.5°	15426.8	15205.9	14759.3	14358.3	13779.7	12238.2	11753.2	12315.0	12824.1	12480.7	11273.0
40°	17450.9	17254.0	16833.8	16317.6	15340.4	13333.1	12956.1	13628.4	14207.1	12240.6	11640.3
42.5°	19460.6	19292.5	18954.0	18444.9	17186.8	14636.9	14274.3	14997.0	14452.0	12708.8	12689.6
45°	21487.1	21403.0	21018.9	20584.3	19374.1	16305.6	15750.9	16315.2	13906.9	13830.1	13784.5
47.5°	23129.4	23143.8	23009.4	22783.7	21708.0	18137.6	17414.9	15741.3	14569.6	14653.7	14675.3
50°	24822.2	24714.1	24706.9	24721.3	24272.3	20497.8	18548.2	15482.0	15436.4	15429.2	15410.0
52.5°	26178.8	26041.9	26325.2	26550.9	26817.4	23131.8	18377.7	16360.8	16099.1	16007.9	15448.4
55°	27283.2	27230.4	27691.4	28455.0	29641.1	25921.8	19885.6	17218.0	16694.6	14562.4	13136.2
57.5°	27953.1	28030.0	28980.8	30481.4	32702.4	28234.1	21640.7	18087.2	14293.5	12826.5	12735.2
60°	26671.0	27076.7	28695.1	31989.3	35290.8	30409.4	22946.9	18262.5	12862.5	12077.3	11894.8
62.5°	23532.8	23494.4	26274.8	31989.3	36111.9	30625.5	23359.9	17021.1	11237.0	10214.1	10010.0
65°	16656.1	16757.0	19727.1	28827.1	32896.9	28486.2	21547.1	14471.2	8963.2	8024.3	7748.2
67.5°	10307.7	10300.5	13208.2	21230.2	26779.0	23849.7	18140.0	11092.9	6221.1	5335.2	5035.0
70°	3560.8	3661.6	5940.2	12423.1	19712.7	18685.0	13575.6	7003.9	3279.8	2338.6	1973.7
72.5°	1416.6	1450.2	2132.1	5539.2	12315.0	12483.1	8250.0	3402.3	982.0	624.3	585.9
75°	926.8	931.6	1022.9	2000.1	5976.2	6715.8	3832.1	977.2	456.2	417.8	408.2
77.5°	799.6	802.0	850.0	1013.2	1947.3	2612.4	1090.1	578.7	381.8	343.4	333.7
80°	741.9	744.3	768.3	871.6	938.8	890.8	581.1	465.8	321.7	304.9	302.5
82.5°	701.1	710.7	722.7	785.1	758.7	669.9	482.6	377.0	247.3	264.1	271.3
85°	645.9	655.5	662.7	698.7	633.9	489.8	374.6	283.3	158.5	172.9	170.5
87.5°	485.0	489.8	480.2	475.4	441.8	343.4	247.3	180.1	62.4	57.6	52.8
90°	232.9	230.5	220.9	204.1	177.7	139.3	103.2	57.6	26.4	12.0	4.8
92.5°	184.9	182.5	177.7	160.9	139.3	103.2	74.4	40.8	24.0	9.6	2.4
95°	124.9	120.1	115.3	103.2	86.4	62.4	43.2	28.8	19.2	7.2	2.4
97.5°	81.6	79.2	72.0	62.4	48.0	33.6	26.4	21.6	16.8	7.2	2.4
100°	50.4	50.4	45.6	36.0	24.0	19.2	16.8	16.8	12.0	4.8	0.0
102.5°	31.2	28.8	26.4	16.8	12.0	12.0	12.0	12.0	9.6	4.8	0.0
105°	16.8	16.8	12.0	9.6	7.2	4.8	7.2	9.6	7.2	2.4	0.0
107.5°	4.8	4.8	4.8	2.4	2.4	0.0	2.4	4.8	4.8	2.4	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	4.8	2.4	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°	5736.1	5736.1	5736.1	5736.1	5736.1	5736.1	5736.1	5736.1	5736.1	5736.1
2.5°	5796.2	5750.5	5762.5	5716.9	5709.7	5661.7	5743.3	5748.1	5726.5	5750.5
5°	5870.6	5815.4	5837.0	5781.8	5772.1	5709.7	5774.5	5767.3	5750.5	5769.7
7.5°	5976.2	5921.0	5933.0	5868.2	5856.2	5786.6	5849.0	5825.0	5803.4	5829.8
10°	6122.7	6060.3	6069.9	5993.0	5983.4	5901.8	5973.8	5937.8	5906.6	5942.6
12.5°	6302.8	6221.1	6211.5	6129.9	6122.7	6045.9	6120.3	6084.3	6053.1	6110.7
15°	6509.3	6401.2	6386.8	6283.6	6271.6	6192.3	6264.4	6211.5	6187.5	6262.0
17.5°	6785.4	6403.6	6189.9	6038.7	5952.2	5909.0	6038.7	6213.9	6161.1	6163.5
20°	6672.5	6262.0	5976.2	5846.6	5752.9	5335.2	4758.9	4924.6	5260.7	5426.4
22.5°	6638.9	6494.9	6377.2	6158.7	5229.5	4994.2	5027.8	4989.4	4355.5	4113.0
25°	7282.4	7116.7	6862.2	5716.9	5448.0	5395.2	5414.4	4751.7	4273.9	4343.5
27.5°	8106.0	7935.5	6679.7	6038.7	5985.8	5916.2	5536.8	4708.5	4773.3	4840.5
30°	9143.2	8247.6	6965.5	6768.6	6670.1	6598.1	5191.1	5258.3	5366.4	5450.4
32.5°	10154.1	8221.2	7784.2	7539.3	7416.9	6019.5	5865.8	6021.9	6132.3	6197.1
35°	10166.1	9162.4	8701.4	8386.9	7609.0	6470.9	6612.5	6874.2	7145.6	7196.0
37.5°	10442.2	10228.5	9700.3	9304.1	5659.3	7222.4	7534.5	7834.7	8106.0	8122.8
40°	11541.9	11311.4	10816.8	9945.2	6250.0	7366.5	8550.2	8888.7	9116.8	9104.8
42.5°	12639.2	12480.7	11966.9	8838.3	7042.3	6382.0	9616.2	9839.5	9983.6	10084.4
45°	13743.7	13585.2	11849.2	9705.1	7985.9	6989.5	9356.9	10622.3	10780.8	10831.2
47.5°	14605.6	14214.3	10857.6	10855.2	9164.8	7767.4	7726.6	11328.2	11467.5	11431.4
50°	15402.8	12689.6	11736.4	11232.2	10384.6	8499.8	8216.4	9532.2	12089.3	12036.5
52.5°	14015.0	12315.0	12490.3	10216.5	11364.2	9227.3	8768.7	8547.8	10984.8	12399.1
55°	12533.5	12773.6	13261.1	11225.0	8245.2	9462.6	9236.9	8797.5	7412.1	6238.0
57.5°	12790.4	13148.2	13172.2	12159.0	8533.4	5911.4	7570.5	6626.9	4187.4	4197.1
60°	11933.3	12399.1	9628.2	8106.0	4588.4	1231.7	120.1	105.6	729.9	888.4
62.5°	10089.3	10737.5	9191.3	7061.5	2943.7	45.6	12.0	2.4	0.0	0.0
65°	7813.0	8593.4	7767.4	6093.9	2612.4	14.4	0.0	0.0	0.0	0.0
67.5°	5152.7	5856.2	5901.8	5097.4	2177.8	7.2	0.0	0.0	0.0	0.0
70°	2158.6	3039.7	3673.6	3788.9	1712.0	2.4	0.0	0.0	0.0	0.0
72.5°	624.3	965.2	1767.2	2276.2	1087.7	0.0	0.0	0.0	0.0	0.0
75°	415.4	444.2	511.4	1025.3	542.6	0.0	0.0	0.0	0.0	0.0
77.5°	343.4	350.6	292.9	280.9	156.1	0.0	0.0	0.0	0.0	0.0
80°	312.1	307.3	235.3	165.7	57.6	0.0	0.0	0.0	0.0	0.0
82.5°	288.1	273.7	170.5	86.4	38.4	0.0	0.0	0.0	0.0	0.0
85°	194.5	192.1	76.8	52.8	7.2	0.0	0.0	0.0	0.0	0.0
87.5°	52.8	67.2	16.8	7.2	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)