

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: P579398

Luminaire Tested: **CTN-CA10-760-722-U-T5N-HSS-HM-EX180**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579398
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-CA10-760-722-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: 58809 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U2 - G5

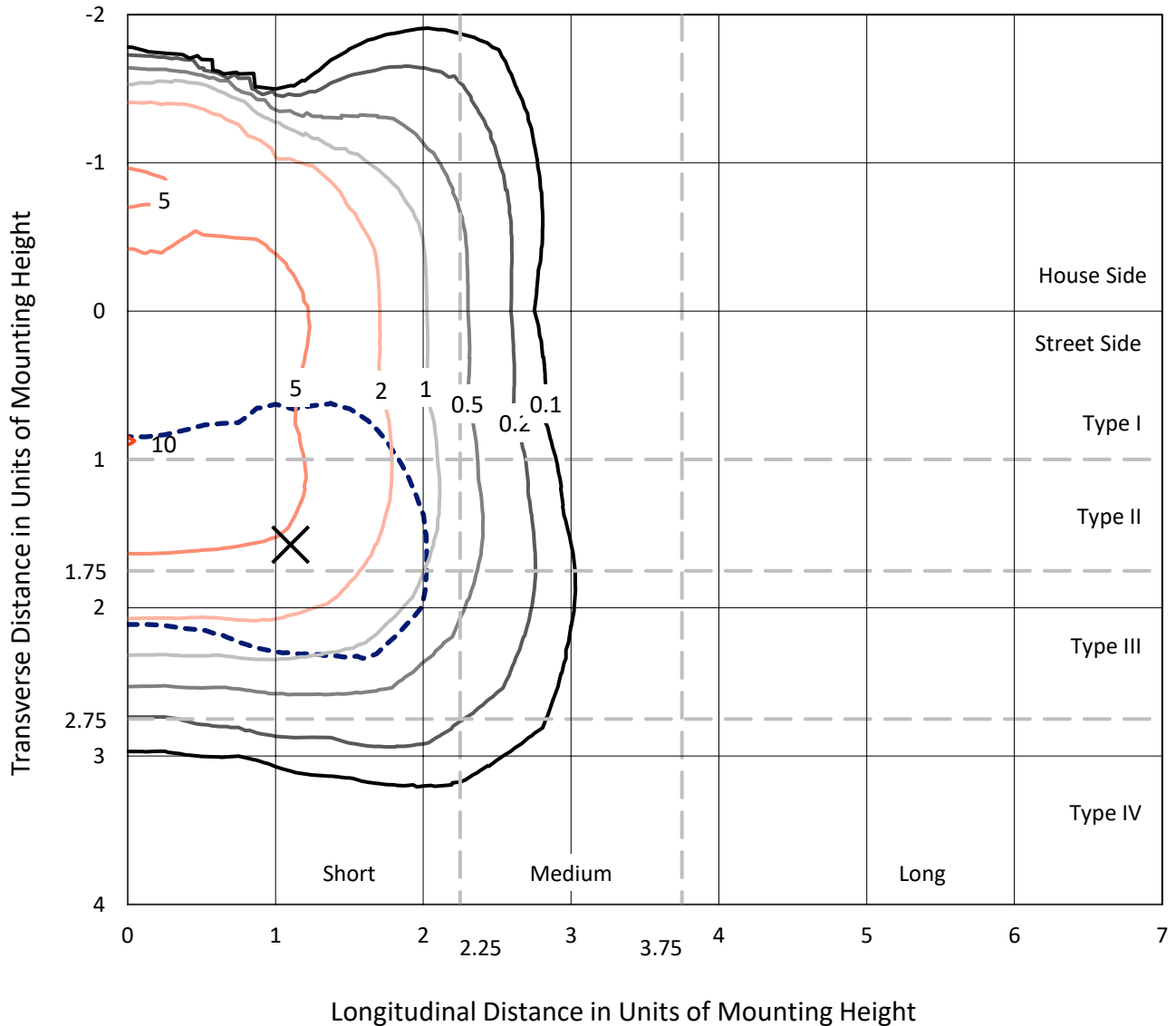
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

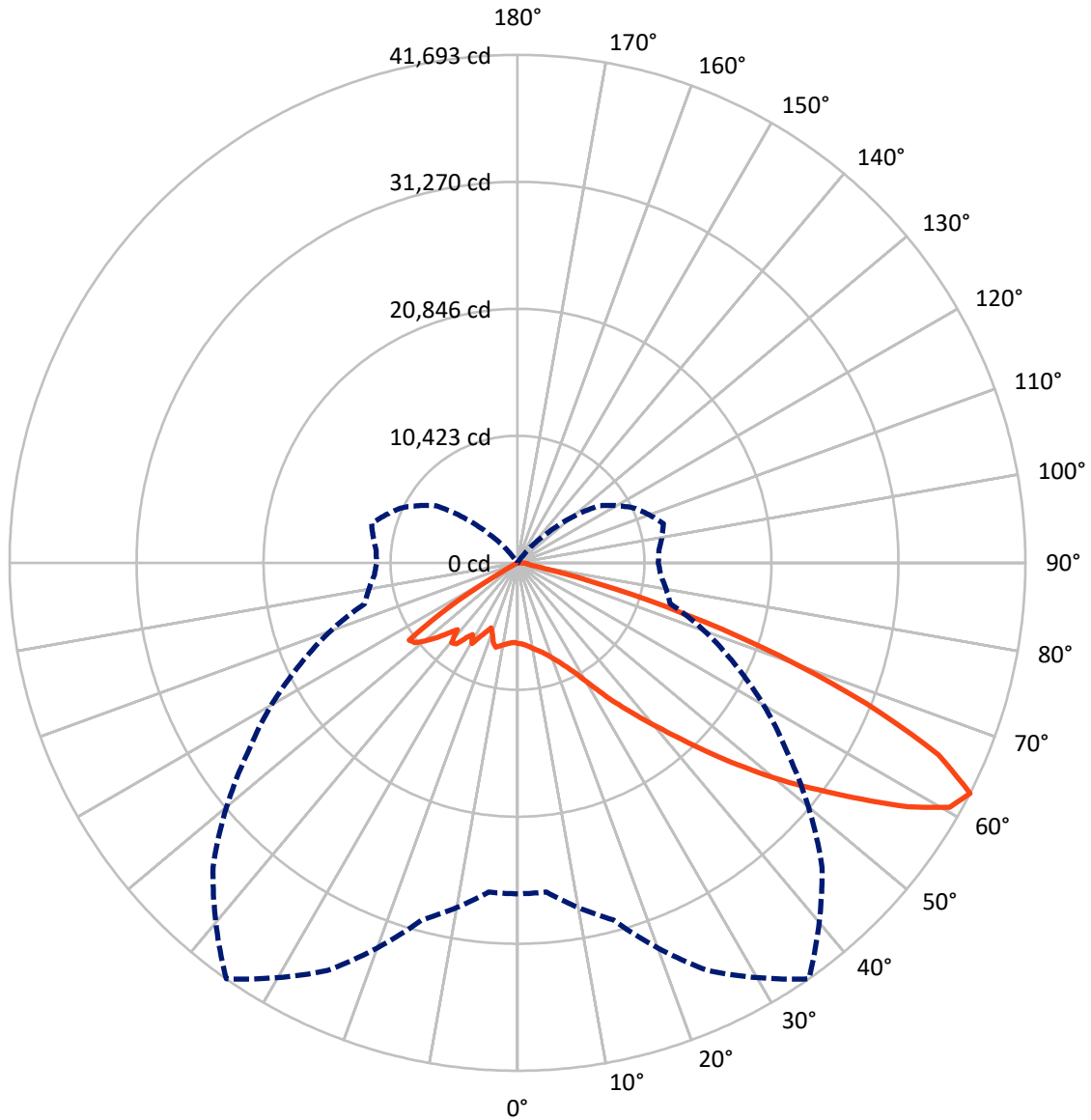
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.1 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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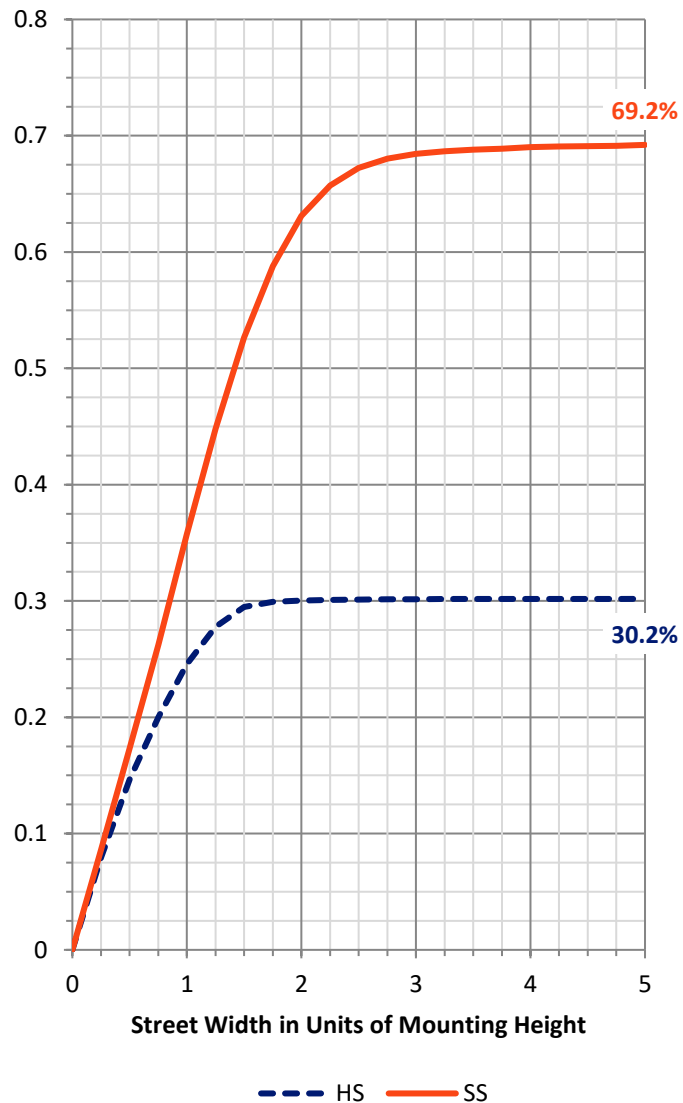
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17848.7	0.0	17848.8
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	40909.2	51.0	40960.3
	% Fixture	69.6	0.1	69.6
Total	Lumens	58757.9	51.1	58809.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	653.4	1.1
10°-20°	2097.2	3.6
20°-30°	3833.0	6.5
30°-40°	7304.5	12.4
40°-50°	12537.6	21.3
50°-60°	16819.4	28.6
60°-70°	12786.1	21.7
70°-80°	2421.1	4.1
80°-90°	305.7	0.5
90°-100°	44.9	0.1
100°-110°	6.1	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°	58757.9	99.9
0°-180°	58809.0	100.0

Coefficient of Utilization

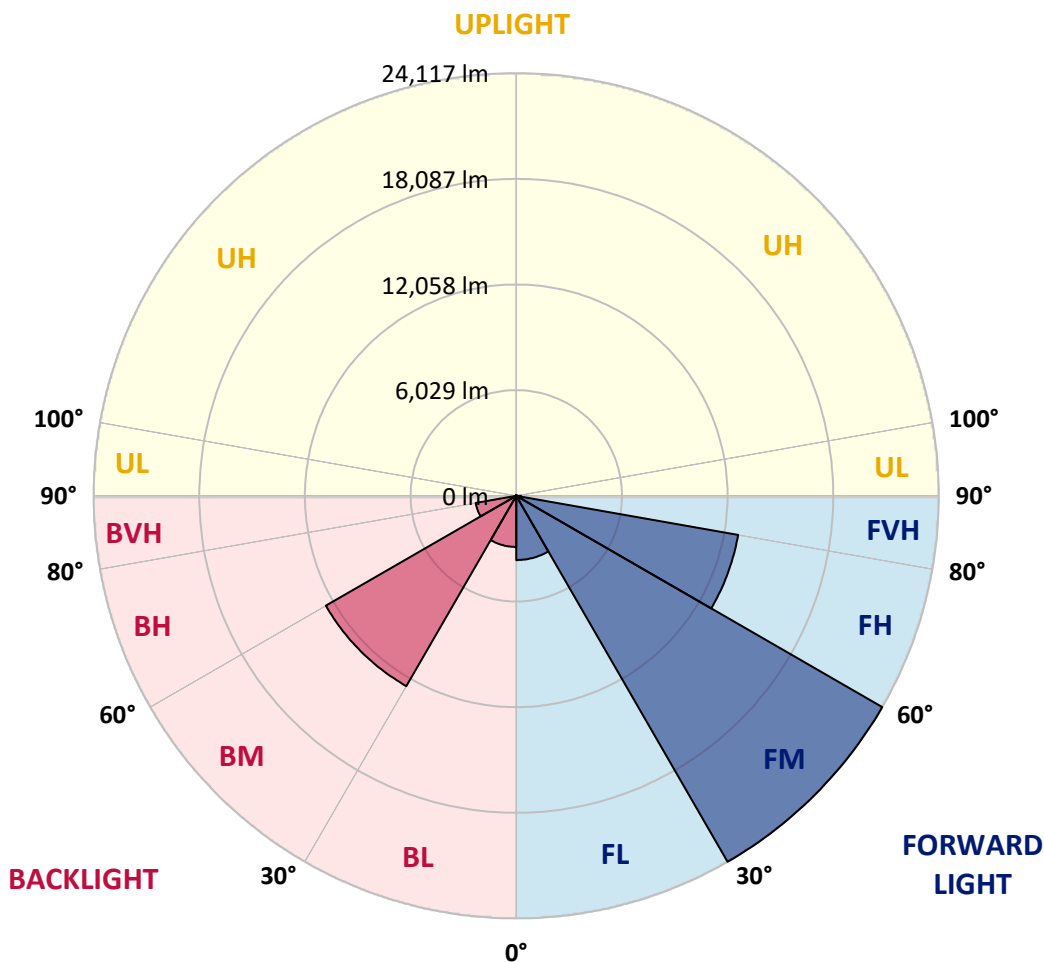


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3666.0	6.2			
FM (30°-60°)	24116.6	41.0			
FH (60°-80°)	12856.7	21.9			G5
FVH (80°-90°)	269.9	0.5			G3/500
BL (0°-30°)	2917.6	5.0	B4/5000		
BM (30°-60°)	12544.9	21.3	B5		
BH (60°-80°)	2350.4	4.0	B3/2500		G3/2500
BVH (80°-90°)	35.8	0.1			G1/100
UL (90°-100°)	44.9	0.1		U2/50	
UH (100°-180°)	6.2	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°	6622.6	6622.6	6622.6	6622.6	6622.6	6622.6	6622.6	6622.6	6622.6	6622.6	6622.6
2.5°	6786.2	6736.3	6739.0	6783.4	6655.9	6703.0	6647.6	6703.0	6672.5	6694.7	6705.8
5°	6905.4	6855.5	6849.9	6897.1	6788.9	6822.2	6766.8	6805.6	6764.0	6791.7	6791.7
7.5°	7085.6	7035.7	7019.0	7055.1	6955.3	6980.2	6922.0	6944.2	6897.1	6933.1	6913.7
10°	7299.0	7243.6	7224.2	7243.6	7157.6	7171.5	7102.2	7127.1	7057.8	7099.4	7071.7
12.5°	7526.3	7454.3	7454.3	7470.9	7379.4	7382.2	7318.4	7332.3	7263.0	7307.3	7274.1
15°	7773.0	7692.7	7703.7	7720.4	7623.4	7640.0	7573.5	7595.6	7523.6	7567.9	7534.6
17.5°	8100.2	8014.2	8003.1	8053.0	7961.6	7992.0	7917.2	7944.9	7881.2	7895.0	7878.4
20°	8552.0	8443.9	8419.0	8485.5	8382.9	8405.1	8349.7	8405.1	8338.6	8238.8	7958.8
22.5°	9092.6	8998.3	8956.7	9001.1	8879.1	8917.9	8915.2	9003.9	8820.9	8191.6	7911.7
25°	9805.0	9741.3	9660.9	9666.4	9519.5	9577.7	9683.0	9752.3	8973.4	8421.7	8427.3
27.5°	10755.9	10692.1	10581.2	10539.6	10326.2	10467.6	10631.1	9954.7	9342.1	9483.5	9405.8
30°	11970.1	11959.0	11734.4	11662.3	11429.5	11606.9	11465.5	10306.8	10517.5	10714.3	10595.1
32.5°	13586.2	13508.6	13184.2	13054.0	12810.0	12912.6	11665.1	11498.8	11812.0	12078.2	11953.4
35°	15540.6	15304.9	14975.0	14717.2	14293.1	13722.0	12424.7	12749.0	13217.5	13583.4	12979.1
37.5°	17810.9	17555.9	17040.3	16577.3	15909.2	14129.5	13569.6	14218.2	14805.9	14409.5	13015.1
40°	20147.8	19920.5	19435.4	18839.4	17711.1	15393.6	14958.4	15734.6	16402.7	14132.3	13439.3
42.5°	22468.1	22274.1	21883.2	21295.5	19842.9	16898.9	16480.3	17314.7	16685.4	14672.9	14650.7
45°	24807.8	24710.8	24267.2	23765.5	22368.3	18825.5	18185.2	18836.6	16056.2	15967.5	15914.8
47.5°	26703.9	26720.5	26565.3	26304.7	25062.8	20940.7	20106.2	18174.1	16821.3	16918.3	16943.2
50°	28658.3	28533.5	28525.2	28541.8	28023.4	23665.7	21414.7	17874.7	17822.0	17813.7	17791.5
52.5°	30224.5	30066.5	30393.6	30654.2	30961.9	26706.7	21217.9	18889.3	18587.1	18481.8	17835.9
55°	31499.7	31438.7	31971.0	32852.5	34221.9	29927.9	22958.8	19878.9	19274.6	16813.0	15166.3
57.5°	32273.1	32361.8	33459.6	35192.2	37756.4	32597.5	24985.2	20882.4	16502.5	14808.7	14703.4
60°	30792.8	31261.3	33129.7	36933.1	40744.7	35109.0	26493.2	21084.8	14850.3	13943.8	13733.1
62.5°	27169.6	27125.3	30335.4	36933.1	41692.8	35358.5	26970.0	19651.6	12973.6	11792.6	11557.0
65°	19230.3	19346.7	22775.8	33282.2	37980.9	32888.5	24877.1	16707.6	10348.4	9264.5	8945.7
67.5°	11900.7	11892.4	15249.5	24511.2	30917.5	27535.6	20943.4	12807.2	7182.6	6159.7	5813.2
70°	4111.1	4227.5	6858.2	14343.0	22759.2	21572.7	15673.6	8086.3	3786.7	2700.1	2278.7
72.5°	1635.6	1674.4	2461.7	6395.3	14218.2	14412.3	9525.0	3928.1	1133.8	720.8	676.4
75°	1070.0	1075.6	1180.9	2309.2	6899.8	7753.6	4424.3	1128.3	526.7	482.4	471.3
77.5°	923.1	925.9	981.3	1169.8	2248.2	3016.1	1258.5	668.1	440.8	396.4	385.3
80°	856.6	859.4	887.1	1006.3	1083.9	1028.5	670.9	537.8	371.5	352.1	349.3
82.5°	809.5	820.6	834.4	906.5	876.0	773.4	557.2	435.2	285.5	304.9	313.3
85°	745.7	756.8	765.1	806.7	731.8	565.5	432.5	327.1	183.0	199.6	196.8
87.5°	560.0	565.5	554.4	548.9	510.1	396.4	285.5	207.9	72.1	66.5	61.0
90°	268.9	266.1	255.0	235.6	205.1	160.8	119.2	66.5	30.5	13.9	5.5
92.5°	213.5	210.7	205.1	185.7	160.8	119.2	85.9	47.1	27.7	11.1	2.8
95°	144.2	138.6	133.1	119.2	99.8	72.1	49.9	33.3	22.2	8.3	2.8
97.5°	94.3	91.5	83.2	72.1	55.4	38.8	30.5	24.9	19.4	8.3	2.8
100°	58.2	58.2	52.7	41.6	27.7	22.2	19.4	19.4	13.9	5.5	0.0
102.5°	36.0	33.3	30.5	19.4	13.9	13.9	13.9	13.9	11.1	5.5	0.0
105°	19.4	19.4	13.9	11.1	8.3	5.5	8.3	11.1	8.3	2.8	0.0
107.5°	5.5	5.5	5.5	2.8	2.8	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	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°	6622.6	6622.6	6622.6	6622.6	6622.6	6622.6	6622.6	6622.6	6622.6	6622.6
2.5°	6691.9	6639.2	6653.1	6600.4	6592.1	6536.7	6630.9	6636.5	6611.5	6639.2
5°	6777.9	6714.1	6739.0	6675.3	6664.2	6592.1	6667.0	6658.7	6639.2	6661.4
7.5°	6899.8	6836.1	6849.9	6775.1	6761.2	6680.8	6752.9	6725.2	6700.2	6730.7
10°	7068.9	6996.9	7007.9	6919.2	6908.1	6813.9	6897.1	6855.5	6819.4	6861.0
12.5°	7276.8	7182.6	7171.5	7077.2	7068.9	6980.2	7066.2	7024.6	6988.5	7055.1
15°	7515.2	7390.5	7373.9	7254.7	7240.8	7149.3	7232.5	7171.5	7143.8	7229.7
17.5°	7834.0	7393.3	7146.5	6971.9	6872.1	6822.2	6971.9	7174.3	7113.3	7116.1
20°	7703.7	7229.7	6899.8	6750.1	6642.0	6159.7	5494.4	5685.6	6073.7	6265.0
22.5°	7664.9	7498.6	7362.8	7110.5	6037.7	5766.0	5804.8	5760.5	5028.6	4748.7
25°	8407.9	8216.6	7922.7	6600.4	6290.0	6229.0	6251.1	5486.0	4934.4	5014.8
27.5°	9358.7	9161.9	7712.1	6971.9	6910.9	6830.5	6392.5	5436.1	5511.0	5588.6
30°	10556.3	9522.3	8041.9	7814.6	7701.0	7617.8	5993.3	6071.0	6195.7	6292.7
32.5°	11723.3	9491.8	8987.2	8704.5	8563.1	6949.7	6772.3	6952.5	7080.0	7154.9
35°	11737.2	10578.4	10046.2	9683.0	8784.9	7470.9	7634.4	7936.6	8249.9	8308.1
37.5°	12056.0	11809.3	11199.4	10742.0	6533.9	8338.6	8698.9	9045.5	9358.7	9378.1
40°	13325.6	13059.5	12488.4	11482.2	7215.9	8504.9	9871.5	10262.4	10525.8	10511.9
42.5°	14592.5	14409.5	13816.3	10204.2	8130.7	7368.3	11102.4	11360.2	11526.5	11642.9
45°	15867.7	15684.7	13680.5	11204.9	9220.1	8069.7	10803.0	12263.9	12446.9	12505.1
47.5°	16862.9	16411.0	12535.6	12532.8	10581.2	8967.8	8920.7	13078.9	13239.7	13198.1
50°	17783.2	14650.7	13550.2	12968.0	11989.5	9813.3	9486.2	11005.3	13957.7	13896.7
52.5°	16180.9	14218.2	14420.6	11795.4	13120.5	10653.3	10123.8	9868.8	12682.5	14315.3
55°	14470.5	14747.7	15310.5	12959.7	9519.5	10925.0	10664.4	10157.1	8557.6	7202.0
57.5°	14767.1	15180.2	15207.9	14038.1	9852.1	6825.0	8740.5	7651.1	4834.6	4845.7
60°	13777.5	14315.3	11116.2	9358.7	5297.5	1422.1	138.6	122.0	842.7	1025.7
62.5°	11648.5	12397.0	10611.7	8152.8	3398.6	52.7	13.9	2.8	0.0	0.0
65°	9020.5	9921.4	8967.8	7035.7	3016.1	16.6	0.0	0.0	0.0	0.0
67.5°	5949.0	6761.2	6813.9	5885.2	2514.3	8.3	0.0	0.0	0.0	0.0
70°	2492.1	3509.5	4241.4	4374.4	1976.5	2.8	0.0	0.0	0.0	0.0
72.5°	720.8	1114.4	2040.3	2628.0	1255.8	0.0	0.0	0.0	0.0	0.0
75°	479.6	512.8	590.5	1183.7	626.5	0.0	0.0	0.0	0.0	0.0
77.5°	396.4	404.7	338.2	324.3	180.2	0.0	0.0	0.0	0.0	0.0
80°	360.4	354.8	271.7	191.3	66.5	0.0	0.0	0.0	0.0	0.0
82.5°	332.7	316.0	196.8	99.8	44.4	0.0	0.0	0.0	0.0	0.0
85°	224.5	221.8	88.7	61.0	8.3	0.0	0.0	0.0	0.0	0.0
87.5°	61.0	77.6	19.4	8.3	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)