

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: P579631

Luminaire Tested: **CTN-CA10-630-727-U-T5N-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579631
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-630-727-U-T5N-HSS-HM-EX120
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: 61375 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U2 - G5

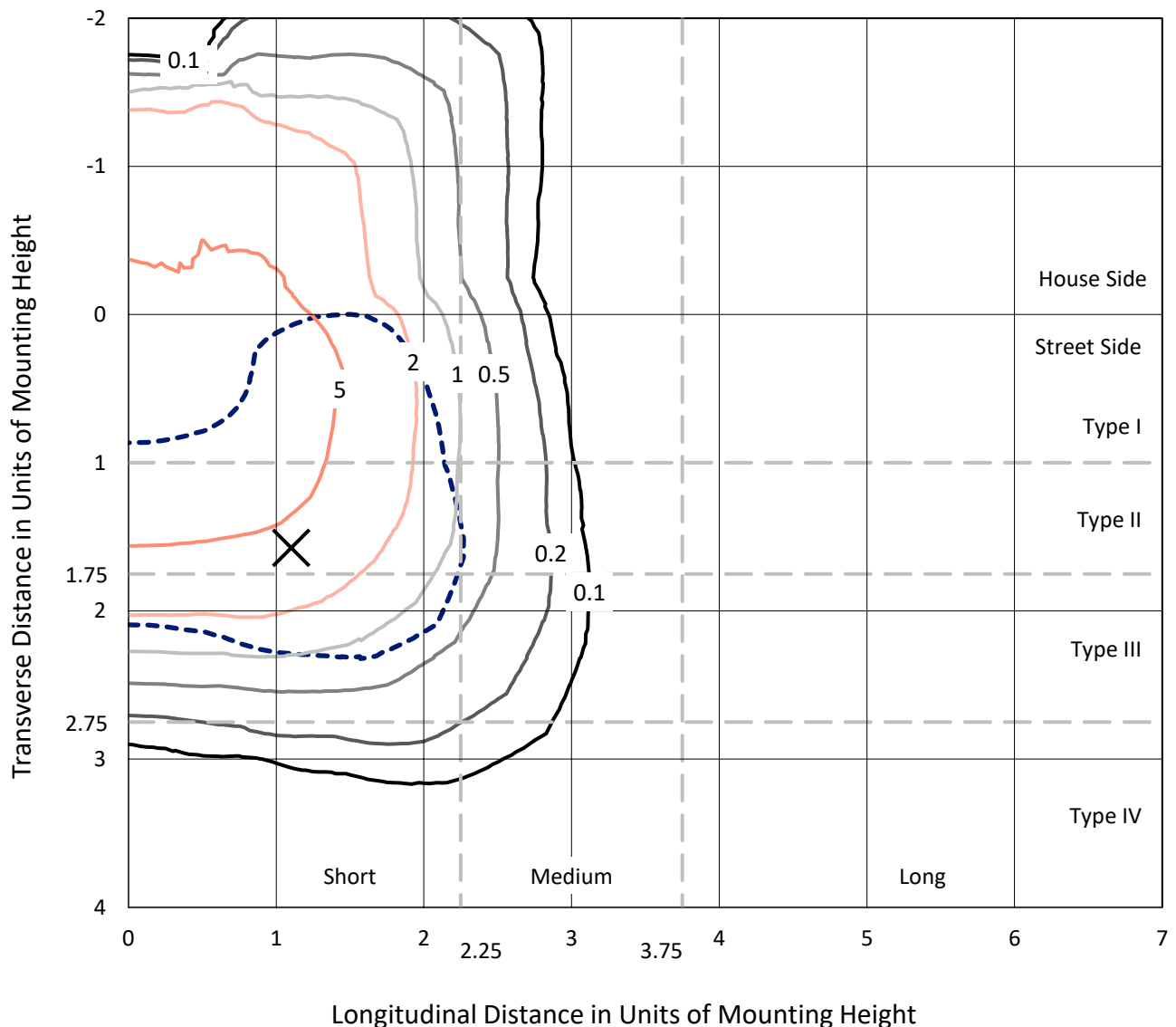
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

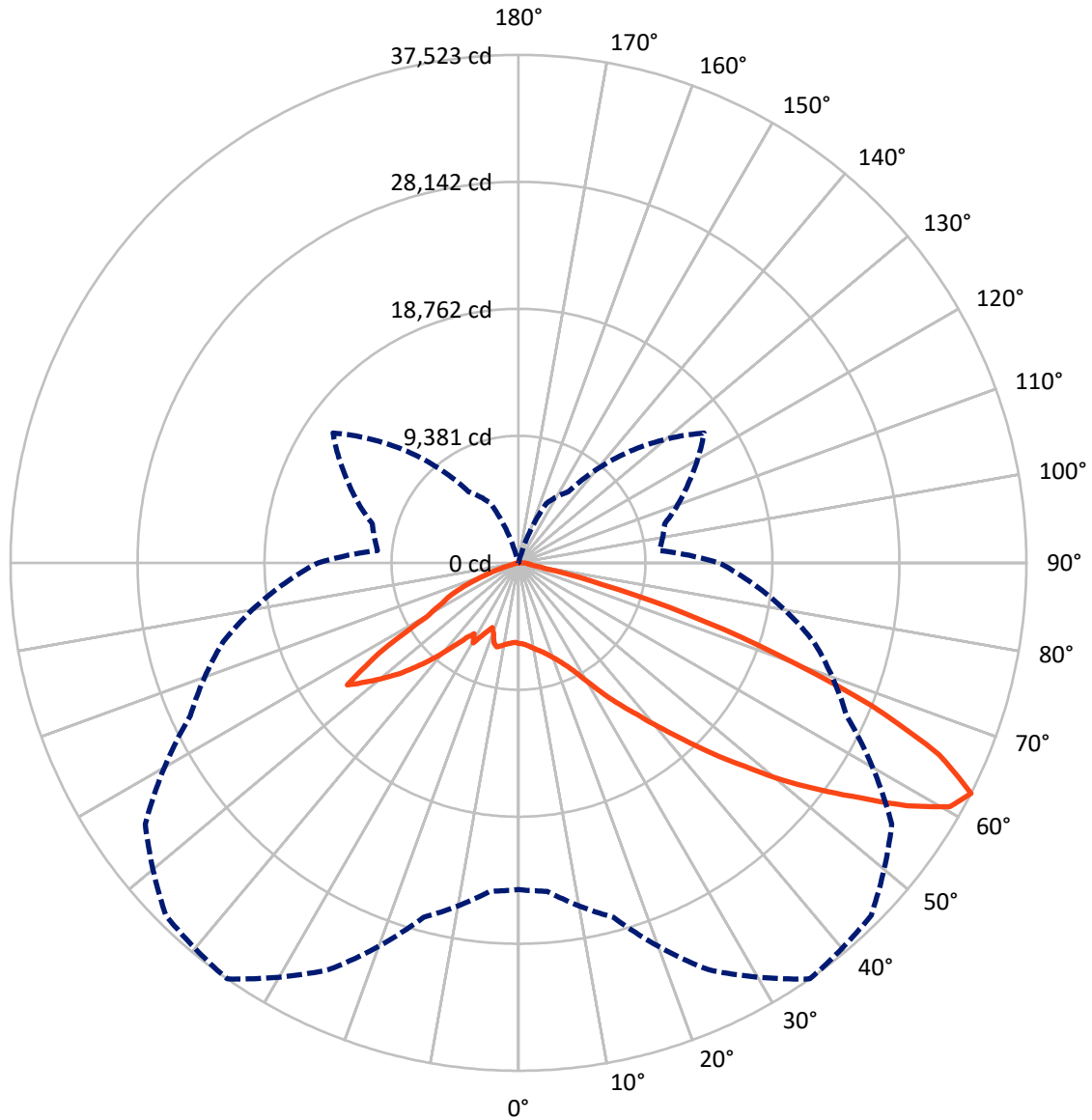
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9 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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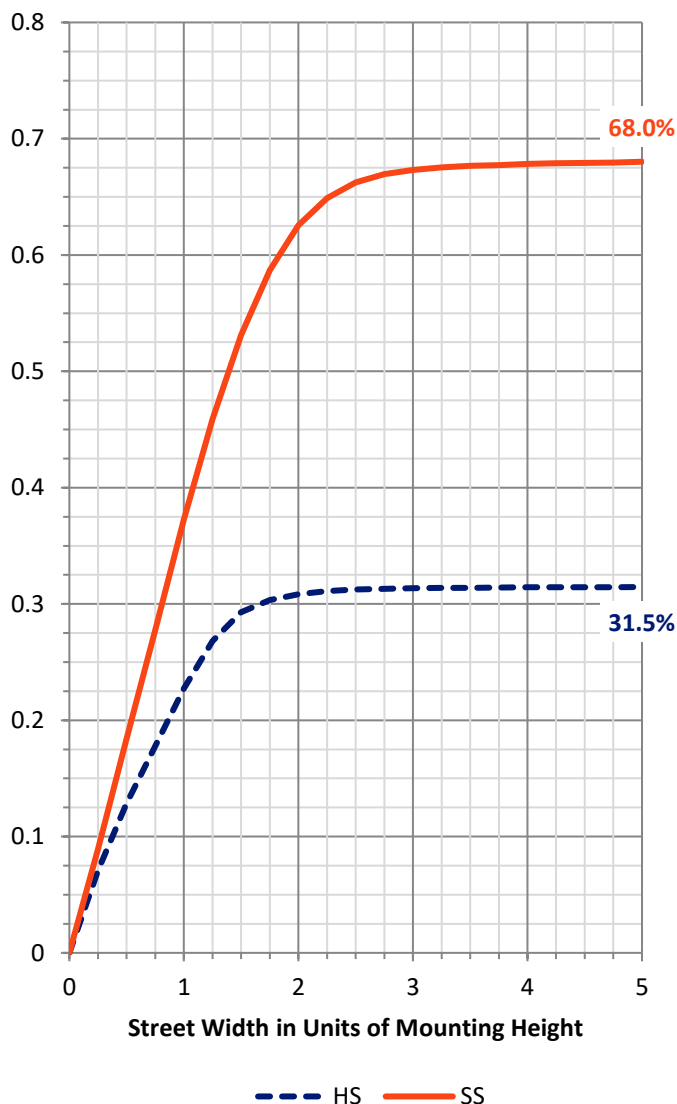
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19416.4	0.0	19416.5
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	41923.5	35.0	41958.6
	% Fixture	68.3	0.1	68.4
Total	Lumens	61339.9	35.1	61375.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.5	1.0
10°-20°	1888.8	3.1
20°-30°	3507.3	5.7
30°-40°	6914.8	11.3
40°-50°	12412.9	20.2
50°-60°	18043.6	29.4
60°-70°	14828.9	24.2
70°-80°	2818.7	4.6
80°-90°	337.4	0.5
90°-100°	31.9	0.1
100°-110°	3.1	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°	61339.9	99.9
0°-180°	61375.0	100.0

Coefficient of Utilization

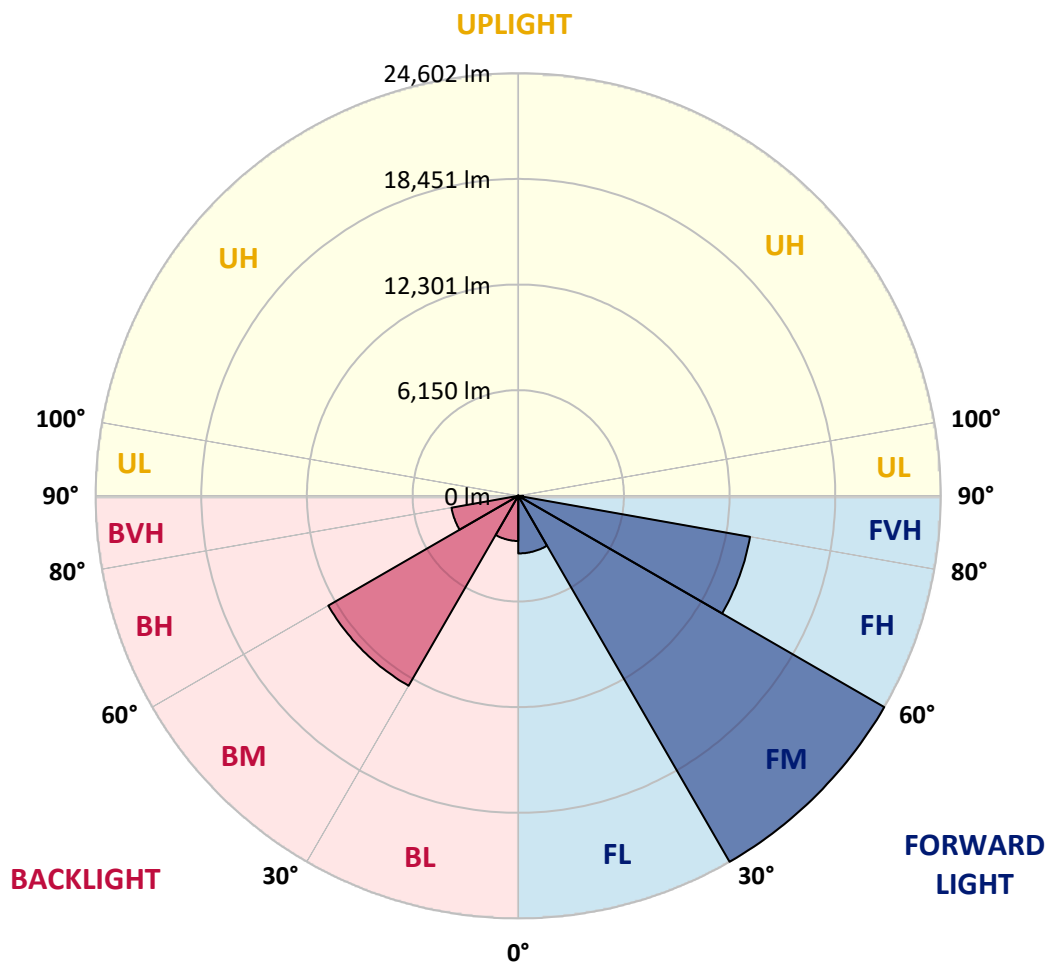


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3354.5	5.5			
FM (30°-60°)	24601.9	40.1			
FH (60°-80°)	13700.3	22.3			G5
FVH (80°-90°)	266.8	0.4			G3/500
BL (0°-30°)	2629.0	4.3	B4/5000		
BM (30°-60°)	12769.4	20.8	B5		
BH (60°-80°)	3947.3	6.4	B4/5000		G4/5000
BVH (80°-90°)	70.6	0.1			G1/100
UL (90°-100°)	31.9	0.1		U2/50	
UH (100°-180°)	3.1	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°	5957.4	5957.4	5957.4	5957.4	5957.4	5957.4	5957.4	5957.4	5957.4	5957.4	5957.4
2.5°	6109.6	6059.7	6064.7	6102.1	5989.8	6027.2	5974.9	6019.8	5999.8	6019.8	6032.2
5°	6231.8	6169.4	6166.9	6204.4	6114.6	6137.0	6077.1	6107.1	6079.6	6104.6	6104.6
7.5°	6381.5	6329.1	6316.6	6346.6	6266.7	6276.7	6216.8	6229.3	6196.9	6229.3	6204.4
10°	6568.6	6521.2	6501.2	6516.2	6443.9	6448.9	6384.0	6389.0	6341.6	6369.0	6349.1
12.5°	6765.7	6700.8	6690.8	6715.8	6640.9	6631.0	6576.1	6581.1	6528.7	6553.6	6538.7
15°	6970.2	6902.9	6905.4	6930.3	6855.5	6860.5	6803.1	6813.1	6760.7	6785.6	6765.7
17.5°	7242.2	7174.8	7169.8	7214.7	7152.4	7172.3	7112.4	7124.9	7087.5	7092.5	7070.0
20°	7631.3	7544.0	7526.6	7591.4	7509.1	7534.1	7501.6	7544.0	7529.1	7516.6	7499.1
22.5°	8095.4	8028.0	7993.1	8043.0	7945.7	7993.1	8010.5	8097.9	8120.3	8105.3	7830.9
25°	8716.6	8681.6	8646.7	8624.2	8507.0	8581.8	8671.6	8816.3	8911.1	8948.6	8566.9
27.5°	9554.8	9572.2	9420.1	9395.1	9262.9	9380.1	9542.3	9776.8	9968.9	10038.8	9524.8
30°	10632.5	10655.0	10447.9	10388.0	10308.2	10408.0	10709.8	10966.8	11251.2	11368.4	10682.4
32.5°	12064.5	12044.5	11740.2	11625.4	11553.0	11593.0	11909.8	12261.6	12580.9	12845.3	12002.1
35°	13813.3	13750.9	13426.6	13109.8	12822.9	12945.1	13177.1	13603.7	14087.7	14476.9	13304.3
37.5°	15844.0	15784.1	15290.1	14773.7	14207.4	14259.8	14466.9	15162.9	15786.6	15888.9	13082.3
40°	17942.0	17917.1	17450.6	16794.5	15913.8	15666.8	15941.3	16789.5	17448.1	15664.3	13598.7
42.5°	20037.6	19917.8	19655.9	18999.8	17827.3	17283.4	17652.6	18500.8	19209.3	16422.7	14796.2
45°	22150.6	22028.4	21806.3	21324.9	20105.0	19314.1	19421.4	20361.9	21003.0	17844.7	16043.5
47.5°	24026.7	23936.8	23777.2	23507.7	22420.1	21704.1	21497.0	22155.6	22592.2	18999.8	17001.5
50°	25643.2	25565.9	25628.3	25538.5	25219.1	24468.2	23784.7	23742.3	23951.8	20027.6	17882.2
52.5°	27065.2	26960.4	27227.4	27544.2	27838.6	27671.4	26017.4	25246.6	25057.0	20798.5	18473.4
55°	28240.2	28202.8	28661.8	29517.5	30637.7	31076.7	28404.9	26636.1	26044.9	21452.1	18528.3
57.5°	28943.7	29033.6	30004.0	31660.5	33850.9	34057.9	31199.0	28113.0	26915.5	21848.8	18790.2
60°	27741.3	28045.6	29791.9	33267.1	36585.1	36674.9	33207.2	28407.4	25775.4	20421.8	17390.7
62.5°	24138.9	24358.4	27105.1	33164.8	37523.1	36839.5	33656.3	26745.9	22589.7	17323.3	14791.2
65°	17056.4	17310.9	20621.4	29906.7	34137.8	34162.7	30829.8	23128.6	18056.8	13411.6	11420.8
67.5°	10288.2	10699.9	13835.7	21711.6	28108.0	28619.4	25720.6	17510.4	12922.7	8756.5	7391.9
70°	3375.4	3752.1	6316.6	12850.3	20262.1	22452.5	19316.6	11378.4	6748.2	3702.2	2981.2
72.5°	1337.2	1509.3	2225.3	5683.0	13057.4	14990.8	11902.3	5498.4	2265.2	982.9	855.7
75°	893.1	910.6	1027.8	1935.9	6389.0	8197.7	5737.9	1599.1	840.7	613.7	538.9
77.5°	778.4	780.8	833.2	1020.3	2080.6	3143.3	1651.5	858.2	696.0	503.9	446.6
80°	713.5	723.5	755.9	870.7	953.0	1067.7	815.8	716.0	603.7	464.0	421.6
82.5°	683.6	691.0	711.0	788.3	770.9	800.8	658.6	568.8	508.9	426.6	404.1
85°	623.7	636.2	648.6	696.0	633.7	548.8	508.9	381.7	364.2	321.8	296.9
87.5°	471.5	469.0	456.5	464.0	424.1	346.8	286.9	214.5	174.6	144.7	119.7
90°	197.1	199.6	192.1	182.1	159.7	132.2	99.8	59.9	29.9	10.0	5.0
92.5°	149.7	152.2	147.2	132.2	114.8	92.3	67.4	34.9	20.0	7.5	2.5
95°	92.3	94.8	89.8	79.8	69.9	52.4	34.9	22.5	12.5	5.0	0.0
97.5°	54.9	57.4	52.4	47.4	37.4	24.9	20.0	15.0	10.0	5.0	0.0
100°	32.4	32.4	29.9	24.9	17.5	15.0	12.5	10.0	7.5	2.5	0.0
102.5°	15.0	15.0	15.0	10.0	7.5	7.5	7.5	7.5	7.5	2.5	0.0
105°	5.0	5.0	2.5	2.5	2.5	5.0	5.0	5.0	5.0	2.5	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.0	5.0	2.5	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5	2.5	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°	5957.4	5957.4	5957.4	5957.4	5957.4	5957.4	5957.4	5957.4	5957.4	5957.4
2.5°	6019.8	5972.4	5979.8	5937.4	5927.5	5882.6	5962.4	5969.9	5947.4	5969.9
5°	6094.6	6037.2	6052.2	6004.8	5992.3	5930.0	5994.8	5989.8	5972.4	5994.8
7.5°	6204.4	6139.5	6147.0	6092.1	6079.6	6009.8	6069.7	6052.2	6032.2	6059.7
10°	6344.1	6281.7	6284.2	6209.4	6201.9	6122.0	6199.4	6166.9	6137.0	6176.9
12.5°	6538.7	6451.3	6443.9	6361.5	6359.0	6276.7	6356.5	6329.1	6289.2	6351.6
15°	6763.2	6645.9	6616.0	6511.2	6508.7	6421.4	6501.2	6458.8	6438.9	6513.7
17.5°	7055.1	6907.9	6680.9	6324.1	6162.0	6189.4	6471.3	6573.6	6306.7	6346.6
20°	7232.2	6518.7	6186.9	6039.7	5962.4	5518.3	4917.1	4967.0	5558.2	5840.1
22.5°	6932.8	6720.8	6598.5	6391.5	5313.8	5161.6	5196.5	5186.5	4423.1	4196.1
25°	7556.5	7356.9	7134.9	5857.6	5635.6	5570.7	5588.2	4872.2	4455.6	4473.0
27.5°	8454.6	8197.7	6790.6	6236.8	6191.9	6097.1	5752.8	4892.1	4944.5	4979.5
30°	9589.7	8676.6	7232.2	6990.2	6900.4	6798.1	5338.7	5465.9	5563.2	5670.5
32.5°	10687.4	8439.6	8077.9	7825.9	7686.2	6171.9	6022.3	6256.8	6354.1	6446.4
35°	10587.6	9455.0	8986.0	8666.7	8404.7	6660.9	6793.1	7149.9	7406.8	7404.3
37.5°	10862.0	10560.2	10018.8	9614.7	7294.6	7461.7	7738.6	8145.3	8457.1	8454.6
40°	12007.1	11680.3	11171.4	10303.2	8082.9	8472.1	8851.3	9233.0	9457.5	9474.9
42.5°	13144.7	12892.7	12433.7	9100.7	9048.4	9587.2	9983.9	10225.9	10363.1	10410.5
45°	14277.3	14040.3	12216.6	10066.2	10225.9	10759.7	11001.7	11049.1	11196.3	11191.3
47.5°	15177.9	14975.8	11238.7	11213.8	11610.4	11979.6	11902.3	11842.4	11879.9	11899.8
50°	16008.6	13037.4	12116.9	12481.1	13084.8	13129.7	12807.9	10146.0	12560.9	12518.5
52.5°	14871.0	12723.1	12935.1	13788.3	14816.1	14294.7	13666.1	8893.7	11780.1	12900.2
55°	13012.5	13227.0	13706.0	15138.0	16153.3	15534.6	14484.3	9158.1	7818.5	6364.0
57.5°	13271.9	13611.2	14521.8	16500.1	17385.7	12304.0	13518.9	6456.3	4370.7	4368.3
60°	12358.8	12872.8	14504.3	17111.3	14072.7	7883.3	5416.0	147.2	848.2	840.7
62.5°	10447.9	11178.8	13838.2	16724.6	11657.8	6406.4	4824.8	12.5	5.0	5.0
65°	8080.4	8941.1	11538.1	14481.9	10328.1	5518.3	3582.4	0.0	0.0	0.0
67.5°	5298.8	6097.1	8664.2	12029.5	8574.4	4171.2	2407.4	0.0	0.0	0.0
70°	2207.8	3193.2	5383.6	8694.1	6306.7	2731.7	1142.6	0.0	0.0	0.0
72.5°	638.6	972.9	2424.9	5191.5	3914.2	1429.5	424.1	0.0	0.0	0.0
75°	421.6	444.1	733.4	2088.1	1903.5	523.9	172.1	0.0	0.0	0.0
77.5°	354.3	364.2	466.5	583.8	611.2	207.1	139.7	0.0	0.0	0.0
80°	326.8	329.3	419.1	434.1	326.8	172.1	137.2	0.0	0.0	0.0
82.5°	304.4	296.9	356.7	344.3	271.9	149.7	127.2	0.0	0.0	0.0
85°	209.6	214.5	242.0	306.9	164.7	74.8	89.8	0.0	0.0	0.0
87.5°	64.9	74.8	94.8	97.3	29.9	10.0	0.0	0.0	0.0	0.0
90°	2.5	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)