

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: P579487

Luminaire Tested: **CTN-CA10-630-740-U-T5N-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579487
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-CA10-630-740-U-T5N-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 72479 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U2 - G5

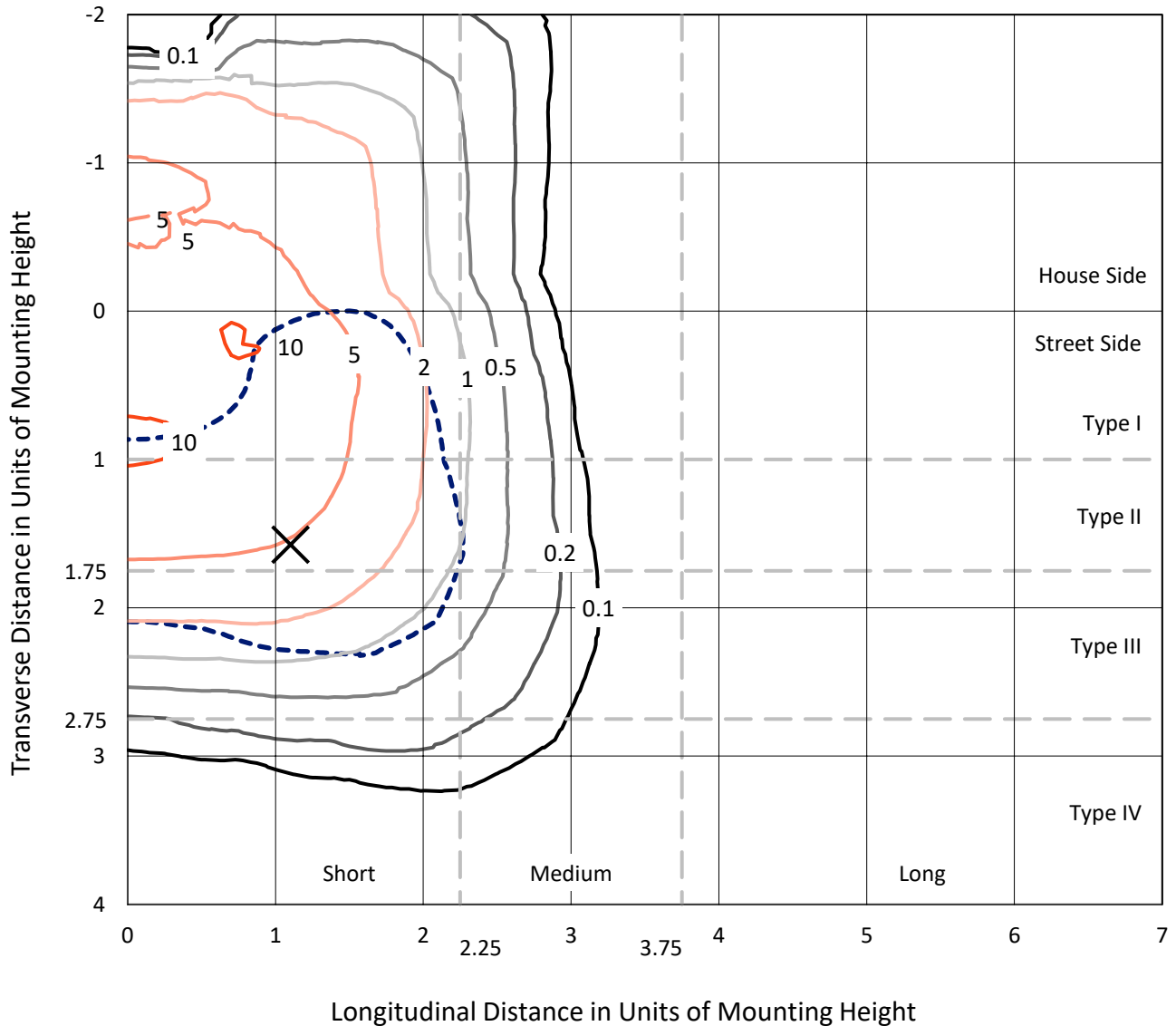
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

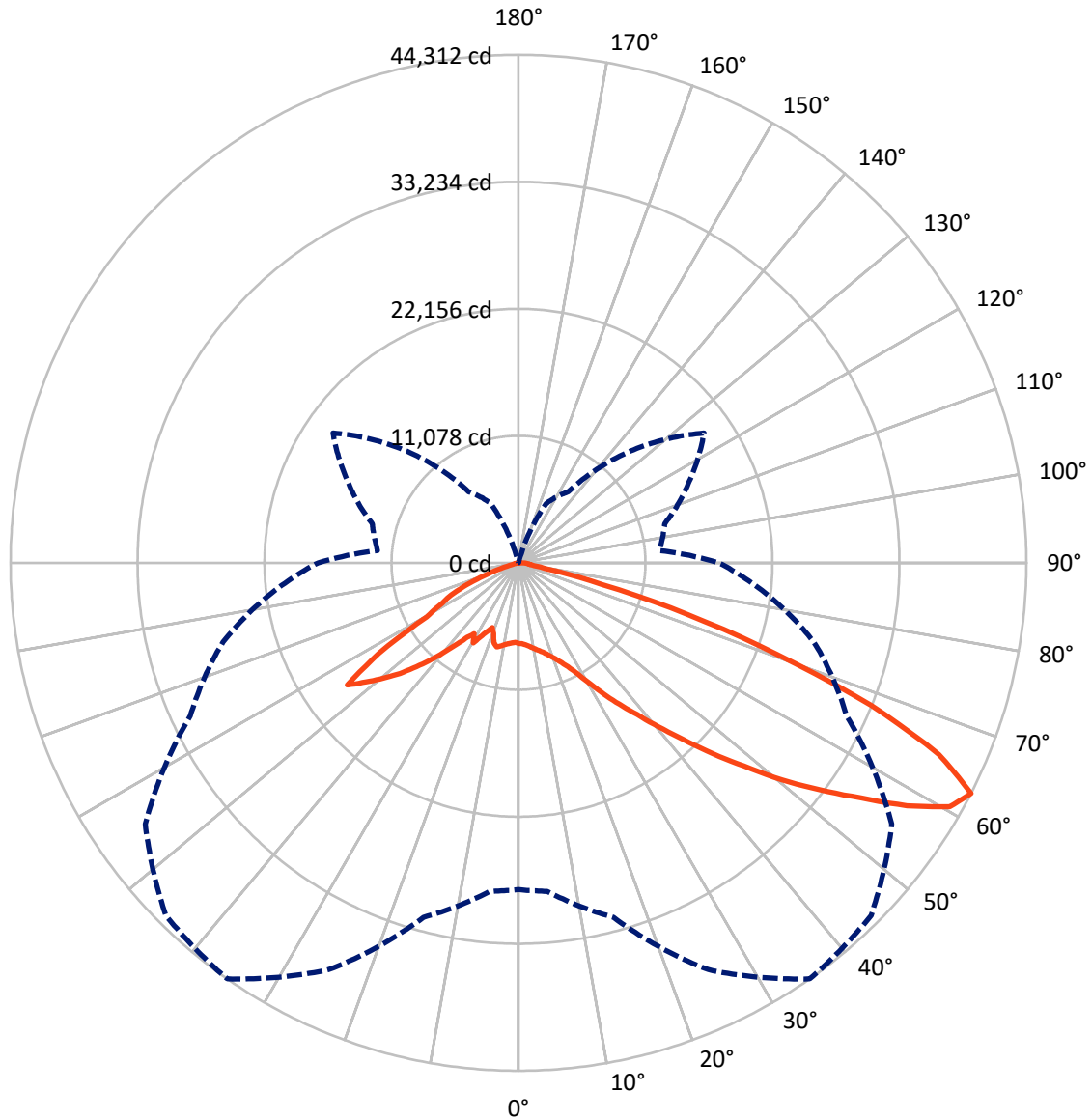
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.6 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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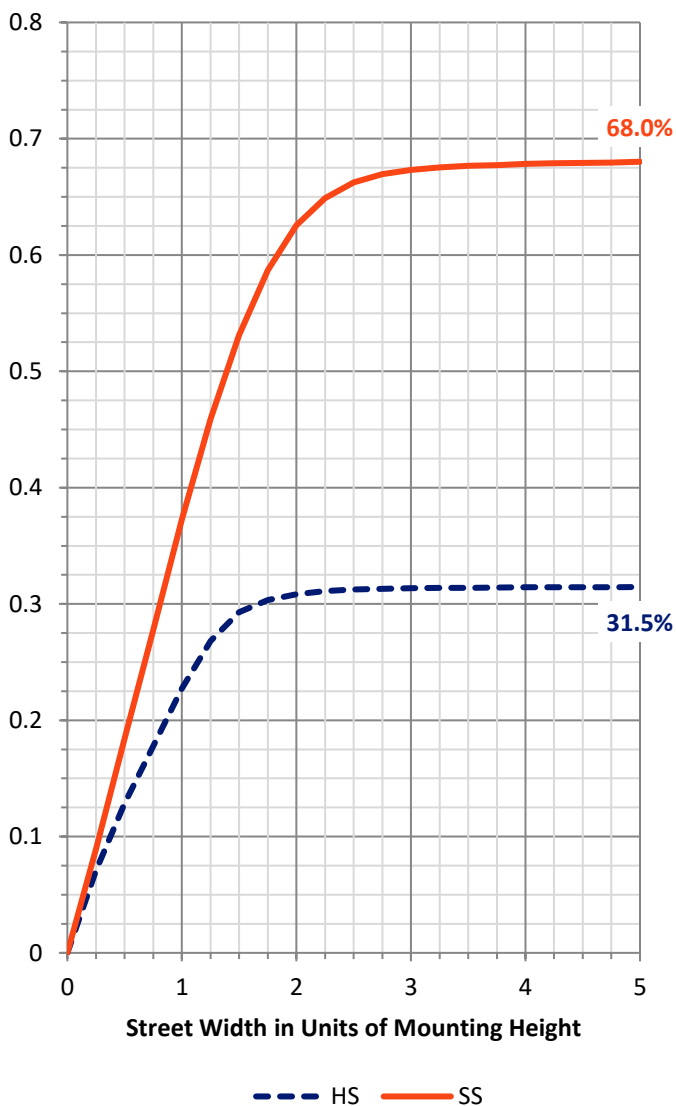
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22929.2	0.0	22929.3
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	49508.3	41.4	49549.7
	% Fixture	68.3	0.1	68.4
Total	Lumens	72437.6	41.4	72479.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	693.7	1.0
10°-20°	2230.5	3.1
20°-30°	4141.8	5.7
30°-40°	8165.9	11.3
40°-50°	14658.7	20.2
50°-60°	21308.0	29.4
60°-70°	17511.7	24.2
70°-80°	3328.7	4.6
80°-90°	398.5	0.5
90°-100°	37.7	0.1
100°-110°	3.6	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°	72437.6	99.9
0°-180°	72479.0	100.0

Coefficient of Utilization

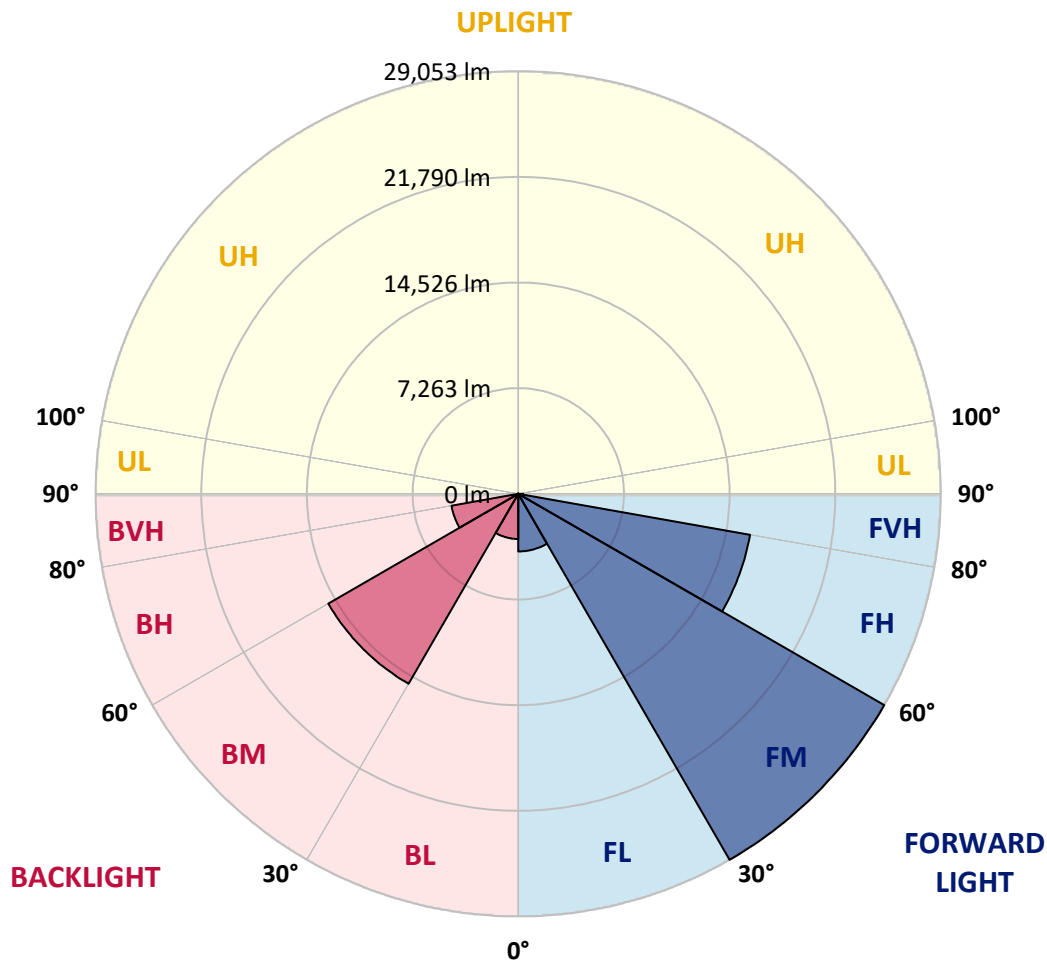


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3961.4	5.5			
FM (30°-60°)	29052.9	40.1			
FH (60°-80°)	16179.0	22.3			G5
FVH (80°-90°)	315.1	0.4			G3/500
BL (0°-30°)	3104.7	4.3	B4/5000		
BM (30°-60°)	15079.7	20.8	B5		
BH (60°-80°)	4661.5	6.4	B4/5000		G4/5000
BVH (80°-90°)	83.4	0.1			G1/100
UL (90°-100°)	37.7	0.1		U2/50	
UH (100°-180°)	3.7	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°	7035.2	7035.2	7035.2	7035.2	7035.2	7035.2	7035.2	7035.2	7035.2	7035.2	7035.2
2.5°	7214.9	7156.0	7161.9	7206.1	7073.5	7117.7	7055.8	7108.9	7085.3	7108.9	7123.6
5°	7359.3	7285.6	7282.7	7326.9	7220.8	7247.3	7176.6	7212.0	7179.6	7209.0	7209.0
7.5°	7536.0	7474.2	7459.4	7494.8	7400.5	7412.3	7341.6	7356.3	7318.0	7356.3	7326.9
10°	7757.0	7701.0	7677.4	7695.1	7609.7	7615.6	7539.0	7544.9	7488.9	7521.3	7497.7
12.5°	7989.7	7913.1	7901.4	7930.8	7842.4	7830.6	7765.8	7771.7	7709.9	7739.3	7721.6
15°	8231.3	8151.8	8154.7	8184.2	8095.8	8101.7	8033.9	8045.7	7983.8	8013.3	7989.7
17.5°	8552.4	8472.9	8467.0	8520.0	8446.4	8469.9	8399.2	8414.0	8369.8	8375.7	8349.2
20°	9012.0	8908.9	8888.3	8964.9	8867.7	8897.1	8858.8	8908.9	8891.2	8876.5	8855.9
22.5°	9560.0	9480.4	9439.2	9498.1	9383.2	9439.2	9459.8	9562.9	9589.4	9571.8	9247.7
25°	10293.6	10252.3	10211.1	10184.6	10046.1	10134.5	10240.5	10411.4	10523.3	10567.5	10116.8
27.5°	11283.4	11304.1	11124.3	11094.9	10938.7	11077.2	11268.7	11545.6	11772.5	11855.0	11248.1
30°	12556.1	12582.6	12338.1	12267.4	12173.1	12291.0	12647.5	12950.9	13286.8	13425.2	12615.1
32.5°	14247.2	14223.6	13864.2	13728.7	13643.2	13690.4	14064.5	14479.9	14857.0	15169.3	14173.5
35°	16312.4	16238.7	15855.7	15481.6	15142.8	15287.1	15561.1	16064.9	16636.4	17096.0	15711.4
37.5°	18710.5	18639.8	18056.4	17446.6	16777.8	16839.7	17084.2	17906.2	18642.7	18763.5	15449.2
40°	21188.1	21158.6	20607.7	19832.9	18793.0	18501.3	18825.4	19827.0	20604.8	18498.4	16059.0
42.5°	23662.8	23521.4	23212.1	22437.2	21052.6	20410.3	20846.4	21848.0	22684.7	19394.0	17473.1
45°	26158.1	26013.8	25751.6	25183.0	23742.3	22808.4	22935.1	24045.8	24802.9	21073.2	18946.2
47.5°	28373.6	28267.5	28079.0	27760.8	26476.3	25630.8	25386.3	26164.0	26679.6	22437.2	20077.4
50°	30282.6	30191.3	30264.9	30158.9	29781.8	28895.0	28087.8	28037.7	28285.2	23651.0	21117.4
52.5°	31961.9	31838.1	32153.4	32527.5	32875.2	32677.8	30724.5	29814.2	29590.3	24561.4	21815.6
55°	33349.5	33305.3	33847.4	34857.9	36180.6	36699.2	33543.9	31455.2	30756.9	25333.2	21880.4
57.5°	34180.3	34286.3	35432.3	37388.5	39975.2	40219.7	36843.5	33199.2	31785.1	25801.7	22189.8
60°	32760.3	33119.7	35181.9	39285.8	43204.1	43310.1	39215.1	33546.9	30438.8	24116.5	20537.0
62.5°	28506.1	28765.4	32009.0	39165.0	44311.8	43504.6	39745.4	31584.8	26676.6	20457.5	17467.2
65°	20142.3	20442.8	24352.2	35317.4	40314.0	40343.4	36407.5	27313.0	21323.6	15838.1	13487.1
67.5°	12149.6	12635.7	16338.9	25639.6	33193.3	33797.3	30373.9	20678.4	15260.6	10340.7	8729.2
70°	3986.0	4430.9	7459.4	15175.2	23928.0	26514.6	22811.4	13437.0	7969.1	4372.0	3520.5
72.5°	1579.1	1782.4	2627.9	6711.1	15419.7	17702.9	14055.7	6493.1	2675.0	1160.8	1010.5
75°	1054.7	1075.3	1213.8	2286.1	7544.9	9680.8	6776.0	1888.4	992.8	724.7	636.4
77.5°	919.2	922.1	984.0	1204.9	2457.0	3712.0	1950.3	1013.4	822.0	595.1	527.3
80°	842.6	854.4	892.7	1028.2	1125.4	1260.9	963.4	845.5	712.9	548.0	497.9
82.5°	807.2	816.1	839.6	931.0	910.3	945.7	777.8	671.7	601.0	503.8	477.3
85°	736.5	751.2	766.0	822.0	748.3	648.1	601.0	450.7	430.1	380.0	350.6
87.5°	556.8	553.9	539.1	548.0	500.8	409.5	338.8	253.4	206.2	170.9	141.4
90°	232.7	235.7	226.8	215.1	188.5	156.1	117.8	70.7	35.4	11.8	5.9
92.5°	176.8	179.7	173.8	156.1	135.5	109.0	79.5	41.2	23.6	8.8	2.9
95°	109.0	112.0	106.1	94.3	82.5	61.9	41.2	26.5	14.7	5.9	0.0
97.5°	64.8	67.8	61.9	56.0	44.2	29.5	23.6	17.7	11.8	5.9	0.0
100°	38.3	38.3	35.4	29.5	20.6	17.7	14.7	11.8	8.8	2.9	0.0
102.5°	17.7	17.7	17.7	11.8	8.8	8.8	8.8	8.8	8.8	2.9	0.0
105°	5.9	5.9	2.9	2.9	2.9	5.9	5.9	5.9	5.9	2.9	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	5.9	5.9	2.9	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	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°	7035.2	7035.2	7035.2	7035.2	7035.2	7035.2	7035.2	7035.2	7035.2	7035.2
2.5°	7108.9	7052.9	7061.7	7011.6	6999.9	6946.8	7041.1	7049.9	7023.4	7049.9
5°	7197.2	7129.5	7147.2	7091.2	7076.5	7002.8	7079.4	7073.5	7052.9	7079.4
7.5°	7326.9	7250.3	7259.1	7194.3	7179.6	7097.1	7167.8	7147.2	7123.6	7156.0
10°	7491.8	7418.2	7421.1	7332.8	7323.9	7229.6	7321.0	7282.7	7247.3	7294.5
12.5°	7721.6	7618.5	7609.7	7512.5	7509.5	7412.3	7506.6	7474.2	7427.0	7500.7
15°	7986.8	7848.3	7813.0	7689.2	7686.3	7583.2	7677.4	7627.4	7603.8	7692.2
17.5°	8331.5	8157.7	7889.6	7468.3	7276.8	7309.2	7642.1	7762.9	7447.7	7494.8
20°	8540.6	7698.1	7306.2	7132.4	7041.1	6516.7	5806.7	5865.6	6563.8	6896.7
22.5°	8187.1	7936.7	7792.3	7547.8	6275.1	6095.4	6136.7	6124.9	5223.4	4955.3
25°	8923.6	8688.0	8425.8	6917.4	6655.2	6578.6	6599.2	5753.7	5261.7	5282.3
27.5°	9984.2	9680.8	8019.2	7365.2	7312.1	7200.2	6793.6	5777.2	5839.1	5880.3
30°	11324.7	10246.4	8540.6	8254.9	8148.8	8028.0	6304.6	6454.8	6569.7	6696.4
32.5°	12620.9	9966.5	9539.4	9241.8	9076.8	7288.6	7111.8	7388.7	7503.6	7612.6
35°	12503.1	11165.6	10611.7	10234.6	9925.3	7866.0	8022.1	8443.4	8746.9	8743.9
37.5°	12827.2	12470.7	11831.4	11354.1	8614.3	8811.7	9138.7	9618.9	9987.2	9984.2
40°	14179.4	13793.5	13192.5	12167.3	9545.3	10004.8	10452.6	10903.4	11168.5	11189.2
42.5°	15522.8	15225.3	14683.2	10747.3	10685.4	11321.7	11790.2	12075.9	12238.0	12293.9
45°	16860.3	16580.5	14426.9	11887.4	12075.9	12706.4	12992.2	13048.1	13221.9	13216.1
47.5°	17923.9	17685.2	13272.0	13242.6	13711.0	14147.0	14055.7	13985.0	14029.2	14052.7
50°	18904.9	15396.1	14309.0	14739.2	15452.1	15505.1	15125.1	11981.7	14833.4	14783.4
52.5°	17561.5	15024.9	15275.4	16282.9	17496.7	16881.0	16138.6	10502.7	13911.3	15234.1
55°	15366.7	15620.0	16185.7	17876.7	19075.8	18345.2	17104.9	10815.0	9233.0	7515.4
57.5°	15673.1	16073.7	17149.1	19485.3	20531.1	14530.0	15964.7	7624.4	5161.5	5158.6
60°	14594.8	15201.7	17128.4	20207.1	16618.8	9309.6	6395.9	173.8	1001.7	992.8
62.5°	12338.1	13201.3	16341.8	19750.4	13767.0	7565.5	5697.7	14.7	5.9	5.9
65°	9542.3	10558.7	13625.6	17101.9	12196.7	6516.7	4230.6	0.0	0.0	0.0
67.5°	6257.4	7200.2	10231.7	14205.9	10125.6	4925.8	2843.0	0.0	0.0	0.0
70°	2607.3	3771.0	6357.6	10267.0	7447.7	3225.9	1349.3	0.0	0.0	0.0
72.5°	754.2	1149.0	2863.6	6130.8	4622.4	1688.1	500.8	0.0	0.0	0.0
75°	497.9	524.4	866.1	2465.9	2247.8	618.7	203.3	0.0	0.0	0.0
77.5°	418.3	430.1	550.9	689.4	721.8	244.5	165.0	0.0	0.0	0.0
80°	385.9	388.9	494.9	512.6	385.9	203.3	162.0	0.0	0.0	0.0
82.5°	359.4	350.6	421.3	406.6	321.1	176.8	150.2	0.0	0.0	0.0
85°	247.5	253.4	285.8	362.4	194.4	88.4	106.1	0.0	0.0	0.0
87.5°	76.6	88.4	112.0	114.9	35.4	11.8	0.0	0.0	0.0	0.0
90°	2.9	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)