

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: P522150

Luminaire Tested: **CTN-CA10-630-730-U-T5R-HSS-HM-EX120**

Issue Date: 5/10/2021

Test Information

Test Method: LM-79-08
Report Number: P522150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-894-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 5/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-630-730-U-T5R-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 69797 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U2 - G5

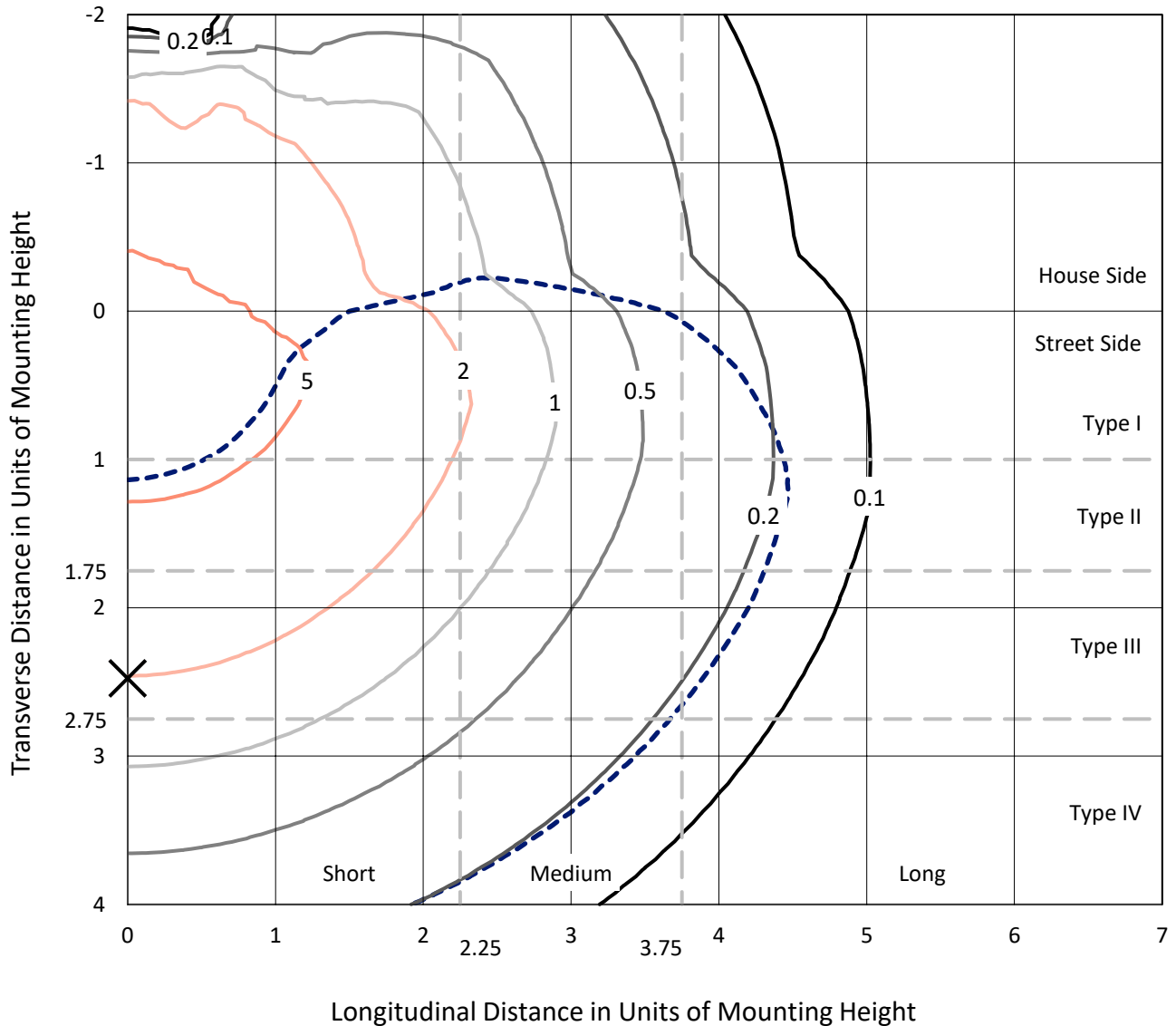
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

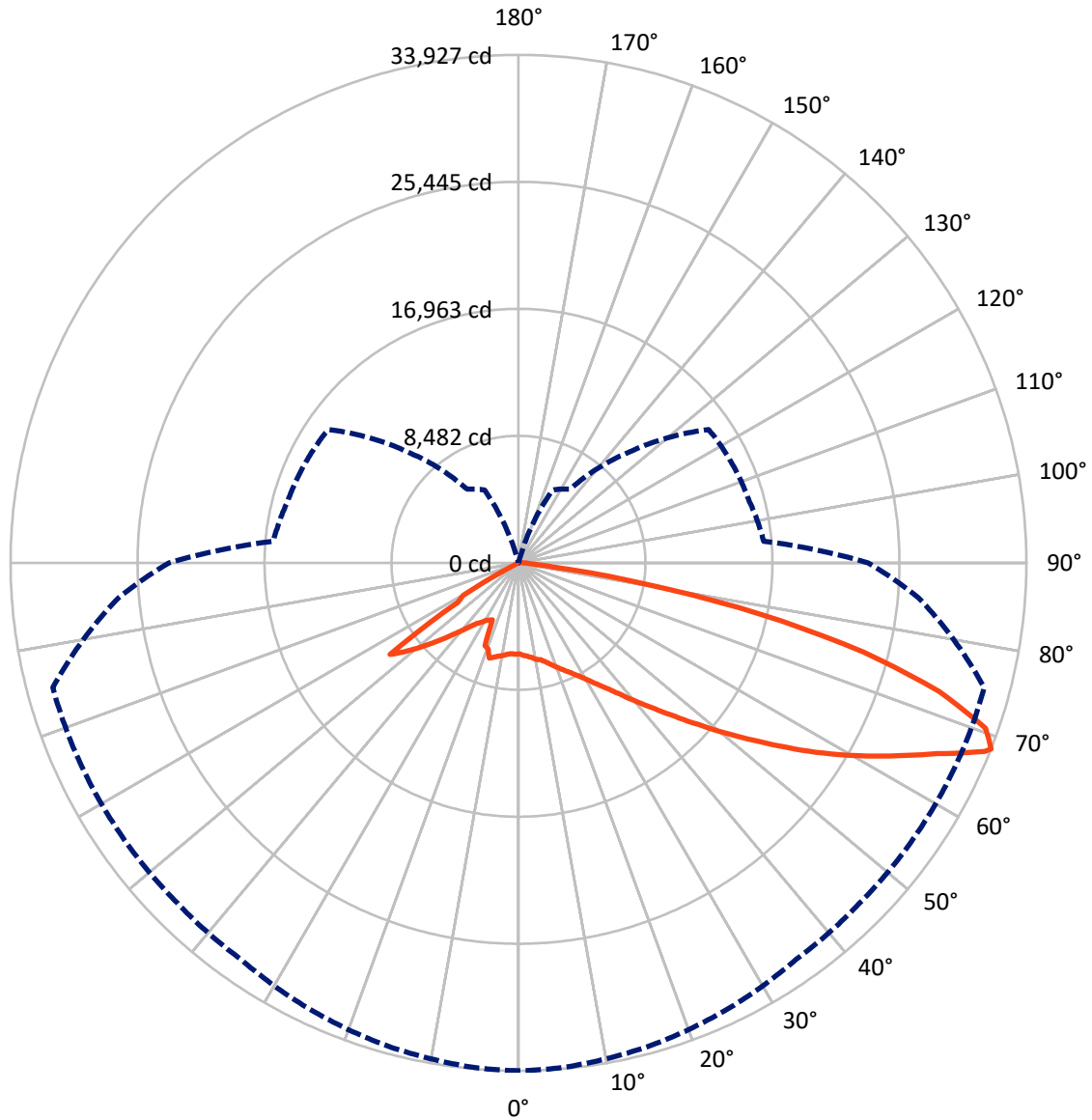
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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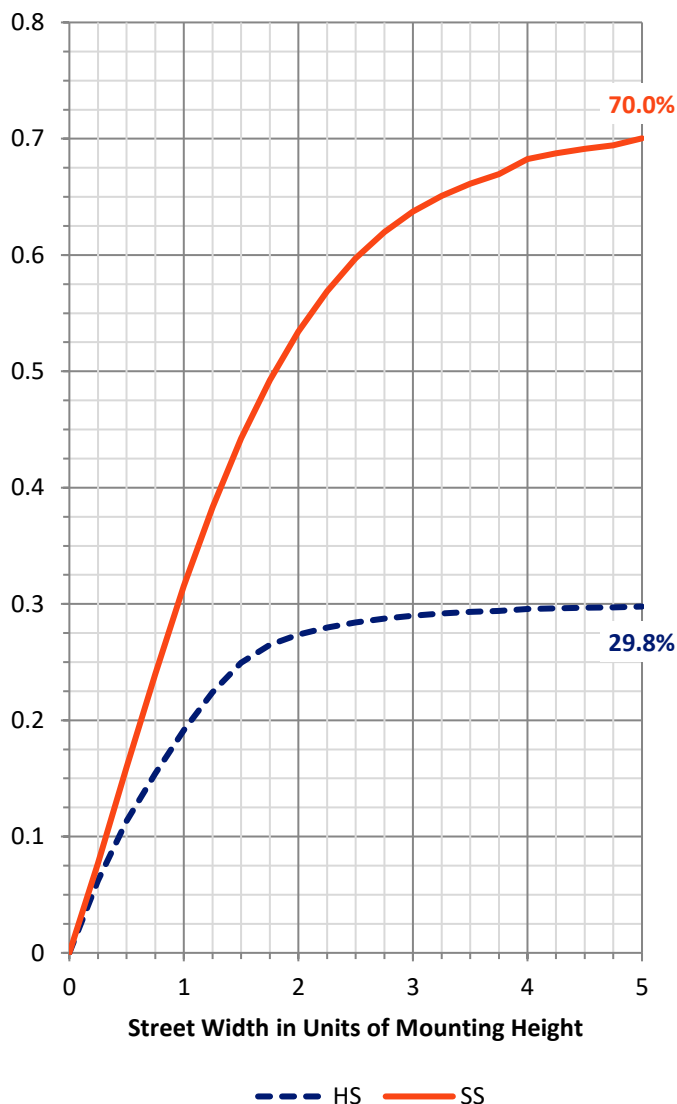
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20805.7	3.2	20808.9
	% Fixture	29.8	0.0	29.8
Street Side	Lumens	48959.5	28.6	48988.1
	% Fixture	70.1	0.0	70.2
Total	Lumens	69765.2	31.8	69797.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	590.6	0.8
10°-20°	1879.7	2.7
20°-30°	3219.6	4.6
30°-40°	5223.0	7.5
40°-50°	8808.3	12.6
50°-60°	14357.8	20.6
60°-70°	19256.1	27.6
70°-80°	14957.0	21.4
80°-90°	1473.0	2.1
90°-100°	28.0	0.0
100°-110°	1.6	0.0
110°-120°	0.4	0.0
120°-130°	0.3	0.0
130°-140°	0.4	0.0
140°-150°	0.4	0.0
150°-160°	0.4	0.0
160°-170°	0.3	0.0
170°-180°	0.1	0.0
0°-90°	69765.2	100.0
0°-180°	69797.0	100.0

Coefficient of Utilization

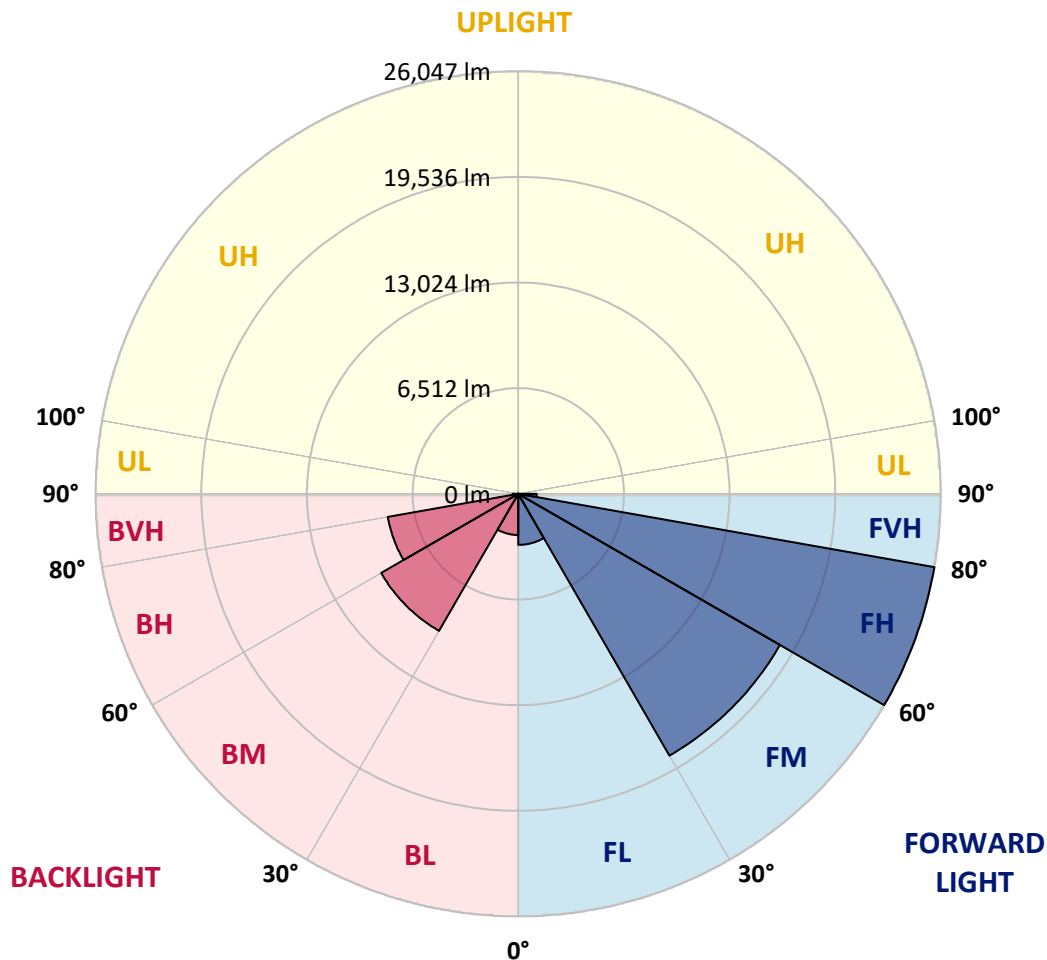


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3148.2	4.5			
FM (30°-60°)	18631.3	26.7			
FH (60°-80°)	26047.4	37.3			G5
FVH (80°-90°)	1132.6	1.6			G5
BL (0°-30°)	2541.7	3.6	B4/5000		
BM (30°-60°)	9757.8	14.0	B5		
BH (60°-80°)	8165.8	11.7	B5		G5
BVH (80°-90°)	340.5	0.5			G3/500
UL (90°-100°)	28.0	0.0		U2/50	
UH (100°-180°)	3.8	0.0		U1/10	

BUG Rating: B5-U2-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6085.0	6085.0	6085.0	6085.0	6085.0	6085.0	6085.0	6085.0	6085.0	6085.0	6085.0
2.5°	6186.0	6168.7	6165.8	6200.5	6090.8	6145.6	6096.6	6137.0	6111.0	6131.2	6134.1
5°	6269.8	6238.0	6217.8	6258.2	6188.9	6214.9	6160.1	6177.4	6105.2	6145.6	6151.4
7.5°	6391.0	6339.0	6333.3	6344.8	6284.2	6304.4	6214.9	6235.1	6183.2	6160.1	6180.3
10°	6555.5	6506.5	6468.9	6494.9	6414.1	6425.6	6330.4	6333.3	6295.7	6252.4	6287.1
12.5°	6647.9	6653.7	6636.4	6656.6	6590.2	6552.6	6486.2	6463.2	6425.6	6373.7	6356.4
15°	6878.8	6867.3	6832.6	6864.4	6855.7	6821.1	6740.3	6688.3	6607.5	6578.6	6549.8
17.5°	7161.7	7124.2	7095.3	7135.7	7179.0	7106.9	7028.9	6956.8	6850.0	6792.2	6757.6
20°	7459.0	7433.1	7404.2	7467.7	7482.1	7427.3	7369.6	7262.8	7138.6	7063.6	6991.4
22.5°	7791.0	7739.0	7747.7	7831.4	7805.4	7779.5	7704.4	7617.8	7467.7	7372.4	7164.6
25°	8134.5	8105.6	8146.1	8183.6	8163.4	8108.5	8071.0	8007.5	7840.1	7724.6	7421.5
27.5°	8561.7	8515.5	8567.5	8581.9	8564.6	8550.2	8498.2	8449.2	8267.3	8137.4	7759.3
30°	9064.0	9009.2	9092.9	9072.7	9055.3	9066.9	9035.1	8928.3	8766.7	8590.6	8212.5
32.5°	9661.5	9589.4	9684.6	9641.3	9600.9	9681.7	9606.7	9505.7	9315.1	9110.2	8740.7
35°	10354.3	10357.2	10406.3	10334.1	10319.7	10406.3	10357.2	10233.1	10057.0	9843.4	9318.0
37.5°	11194.3	11171.2	11295.4	11260.7	11208.8	11324.2	11338.7	11182.8	10865.3	10654.5	10033.9
40°	12216.2	12210.4	12250.8	12256.6	12242.2	12297.0	12323.0	12115.2	11910.2	11592.7	9468.1
42.5°	13307.3	13330.4	13402.6	13350.6	13419.9	13492.1	13500.8	13327.6	13033.1	11122.2	10057.0
45°	14617.9	14690.0	14739.1	14727.6	14759.3	14863.2	14871.9	14779.5	14490.9	12048.8	11125.1
47.5°	16121.8	16191.1	16205.5	16297.9	16269.0	16416.2	16396.0	16398.9	16090.1	13339.1	12288.4
50°	17850.9	17882.7	18001.0	18053.0	17980.8	18180.0	18128.0	18191.5	17810.5	14817.1	13538.3
52.5°	19686.8	19741.6	19790.7	19987.0	19894.6	20067.8	19998.5	20145.8	19704.1	16321.0	14926.7
55°	21773.8	21782.5	21866.2	22065.4	21944.1	22152.0	22050.9	22105.8	21753.6	17983.7	16372.9
57.5°	23985.0	23956.1	23987.9	24146.6	24036.9	24192.8	24152.4	24204.4	23875.3	19733.0	17429.5
60°	26173.0	26129.7	26175.9	26282.7	26132.6	26401.1	26256.8	26305.8	25950.8	21519.8	18936.3
62.5°	28372.7	28340.9	28288.9	28395.7	28176.4	28314.9	28375.5	28294.7	27983.0	23136.3	20246.8
65°	30733.9	30702.2	30511.6	30578.0	30185.5	30119.1	30142.2	30168.1	29960.3	24738.4	21684.3
67.5°	33603.2	33557.0	33199.1	32748.8	32183.0	32058.9	32070.4	32139.7	32168.6	26799.4	23367.2
68°	33926.5	33842.8	33444.5	32922.0	32330.2	32185.9	32171.5	32185.9	32200.3	26816.8	23349.9
70°	33100.9	33069.2	32766.1	32133.9	31527.7	31181.3	30881.1	30869.6	30731.0	25445.6	22059.6
72.5°	29374.3	29333.9	28973.1	28525.6	28150.4	27607.7	27218.0	27241.1	27013.0	22489.7	19308.6
75°	23771.4	23768.5	23335.5	22960.2	22966.0	22925.6	22795.7	23023.7	22787.0	19074.8	16468.2
77.5°	16566.3	16624.1	16595.2	16375.8	16684.7	17111.9	17576.7	18015.4	17879.8	15068.2	13131.3
80°	8654.1	8815.8	9387.3	9413.3	9629.8	10045.5	10363.0	10657.4	10677.6	8550.2	7586.1
82.5°	2300.6	2349.7	2543.1	2488.3	2471.0	2554.7	2623.9	2632.6	2638.4	2228.5	2081.3
85°	715.9	736.1	713.0	681.2	632.2	577.3	562.9	459.0	363.7	300.2	262.7
87.5°	508.0	542.7	490.7	461.9	409.9	389.7	349.3	274.2	213.6	150.1	101.0
90°	262.7	268.5	239.6	205.0	190.5	179.0	153.0	109.7	54.8	28.9	26.0
92.5°	132.8	135.7	118.4	101.0	86.6	75.1	57.7	31.8	17.3	8.7	2.9
95°	52.0	54.8	49.1	43.3	34.6	26.0	23.1	17.3	11.5	5.8	2.9
97.5°	17.3	17.3	17.3	14.4	14.4	14.4	14.4	11.5	8.7	5.8	2.9
100°	0.0	0.0	0.0	2.9	5.8	8.7	8.7	8.7	5.8	2.9	2.9
102.5°	0.0	0.0	0.0	0.0	0.0	2.9	5.8	5.8	5.8	2.9	2.9
105°	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9	2.9
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9
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	2.9
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9
165°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9
170°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9
175°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.9	2.9	2.9	2.9	2.9
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°	6085.0	6085.0	6085.0	6085.0	6085.0	6085.0	6085.0	6085.0	6085.0	6085.0
2.5°	6119.6	6102.3	6111.0	6038.8	6056.1	6010.0	6108.1	6082.1	6070.6	6111.0
5°	6134.1	6070.6	6122.5	6073.5	6082.1	6015.7	6096.6	6064.8	6061.9	6085.0
7.5°	6139.9	6108.1	6157.2	6076.3	6102.3	6076.3	6137.0	6105.2	6134.1	6154.3
10°	6220.7	6203.4	6197.6	6168.7	6188.9	6131.2	6206.2	6206.2	6220.7	6275.5
12.5°	6339.0	6315.9	6301.5	6249.5	6269.8	6252.4	6313.1	6324.6	6350.6	6373.7
15°	6500.7	6460.3	6445.8	6399.7	6414.1	6411.2	6454.5	6457.4	6515.1	6512.2
17.5°	6708.5	6650.8	6668.1	6633.5	6636.4	6613.3	6590.2	6590.2	6642.1	6653.7
20°	6956.8	6627.7	6194.7	5952.2	5908.9	5940.7	6064.8	6269.8	6012.8	6085.0
22.5°	6509.3	6212.0	6191.8	6137.0	6102.3	5328.7	5129.5	5066.0	5398.0	5969.5
25°	6567.1	6440.1	6402.5	6333.3	5311.4	5302.7	5245.0	5149.7	4208.7	4188.5
27.5°	6873.1	6748.9	6688.3	5548.1	5525.0	5522.1	5435.5	4480.0	4263.5	4292.4
30°	7231.0	7086.7	6001.3	5828.1	5807.9	5761.7	5265.2	4425.2	4422.3	4425.2
32.5°	7643.8	7164.6	6174.5	6165.8	6177.4	6035.9	4664.8	4647.5	4644.6	4673.4
35°	8209.6	6647.9	6607.5	6650.8	6590.2	5219.0	4944.8	4936.1	4939.0	4924.6
37.5°	7834.3	7167.5	7158.8	7158.8	7017.4	5340.3	5285.4	5325.8	5320.1	5299.8
40°	7993.1	7796.8	7744.8	7727.5	5932.0	5761.7	5730.0	5781.9	5790.6	5805.0
42.5°	8763.8	8584.8	8558.8	8353.9	6454.5	6399.7	6301.5	6356.4	6350.6	6367.9
45°	9710.6	9589.4	9476.8	7242.5	7158.8	7089.6	6988.5	7052.0	7069.3	7057.8
47.5°	10813.3	10680.5	9866.5	7964.2	7961.3	7906.5	7793.9	7845.9	7837.2	7837.2
50°	11921.8	11777.4	8963.0	8882.1	8853.3	8766.7	8674.3	8683.0	8685.9	8714.7
52.5°	13160.1	10518.9	9921.3	9759.7	9782.8	9725.0	9635.6	7294.5	9592.3	9618.2
55°	12299.9	11009.6	10975.0	10761.3	10816.2	10741.1	10683.4	7196.4	9540.3	10542.0
57.5°	12161.4	12069.0	12040.1	11820.7	11890.0	11177.0	11711.0	7874.7	6598.8	4820.7
60°	13220.7	13122.6	13105.3	12911.9	12906.1	8882.1	10645.9	5400.9	4220.2	4249.1
62.5°	14248.4	14089.6	14132.9	13904.9	9803.0	5412.4	4771.6	121.2	193.4	205.0
65°	15394.4	15128.8	15172.1	14961.4	10111.9	5706.9	5158.4	63.5	54.8	52.0
67.5°	16497.1	16032.3	15810.1	15587.8	10501.5	6010.0	5374.9	17.3	0.0	0.0
68°	16442.2	15951.5	15723.5	15512.7	10461.1	6001.3	5363.4	17.3	0.0	0.0
70°	15515.6	15074.0	14857.5	14695.8	9987.7	5796.3	5146.9	17.3	0.0	0.0
72.5°	13564.3	13318.9	13180.3	13038.9	8873.5	5184.4	4615.7	17.3	0.0	0.0
75°	11526.3	11457.0	11370.4	11058.7	7395.5	4243.3	3793.0	17.3	0.0	0.0
77.5°	9133.3	9130.4	8919.7	8553.1	5568.3	3114.7	2797.1	14.4	0.0	0.0
80°	4939.0	5383.6	5221.9	5034.3	3158.0	1694.4	1613.6	11.5	0.0	0.0
82.5°	1388.5	1313.4	1261.5	1180.6	663.9	369.5	360.8	11.5	0.0	0.0
85°	193.4	213.6	236.7	268.5	153.0	98.1	86.6	5.8	0.0	0.0
87.5°	109.7	124.1	153.0	158.8	57.7	46.2	14.4	0.0	0.0	0.0
90°	23.1	26.0	28.9	28.9	11.5	11.5	0.0	0.0	0.0	0.0
92.5°	0.0	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	2.9	2.9	2.9	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°
110°	2.9	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
112.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	2.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	2.9	2.9	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)