

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: P579634

Luminaire Tested: **CTN-CA10-760-727-U-T5-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579634
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-760-727-U-T5-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: 66318 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U3 - G5

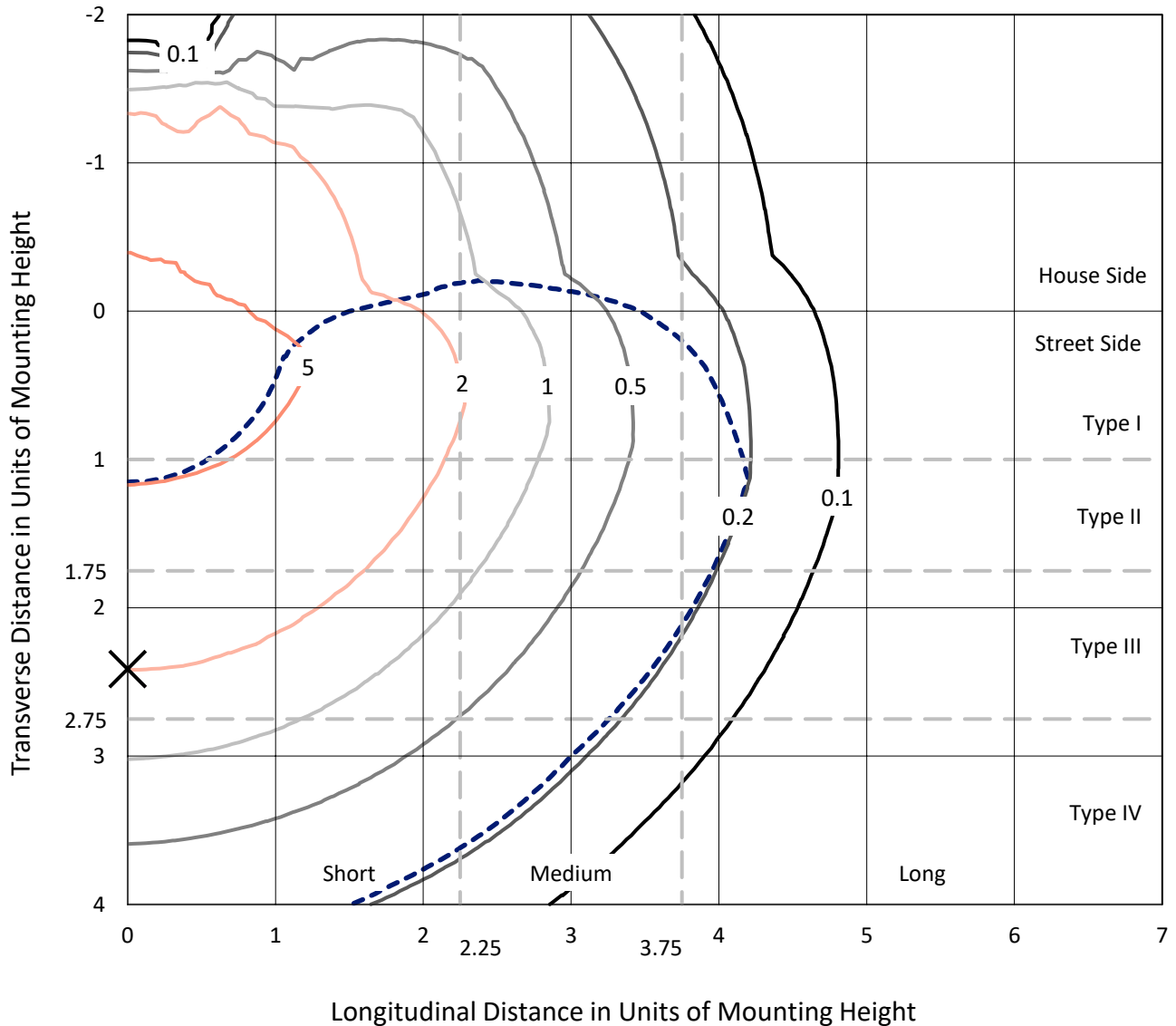
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

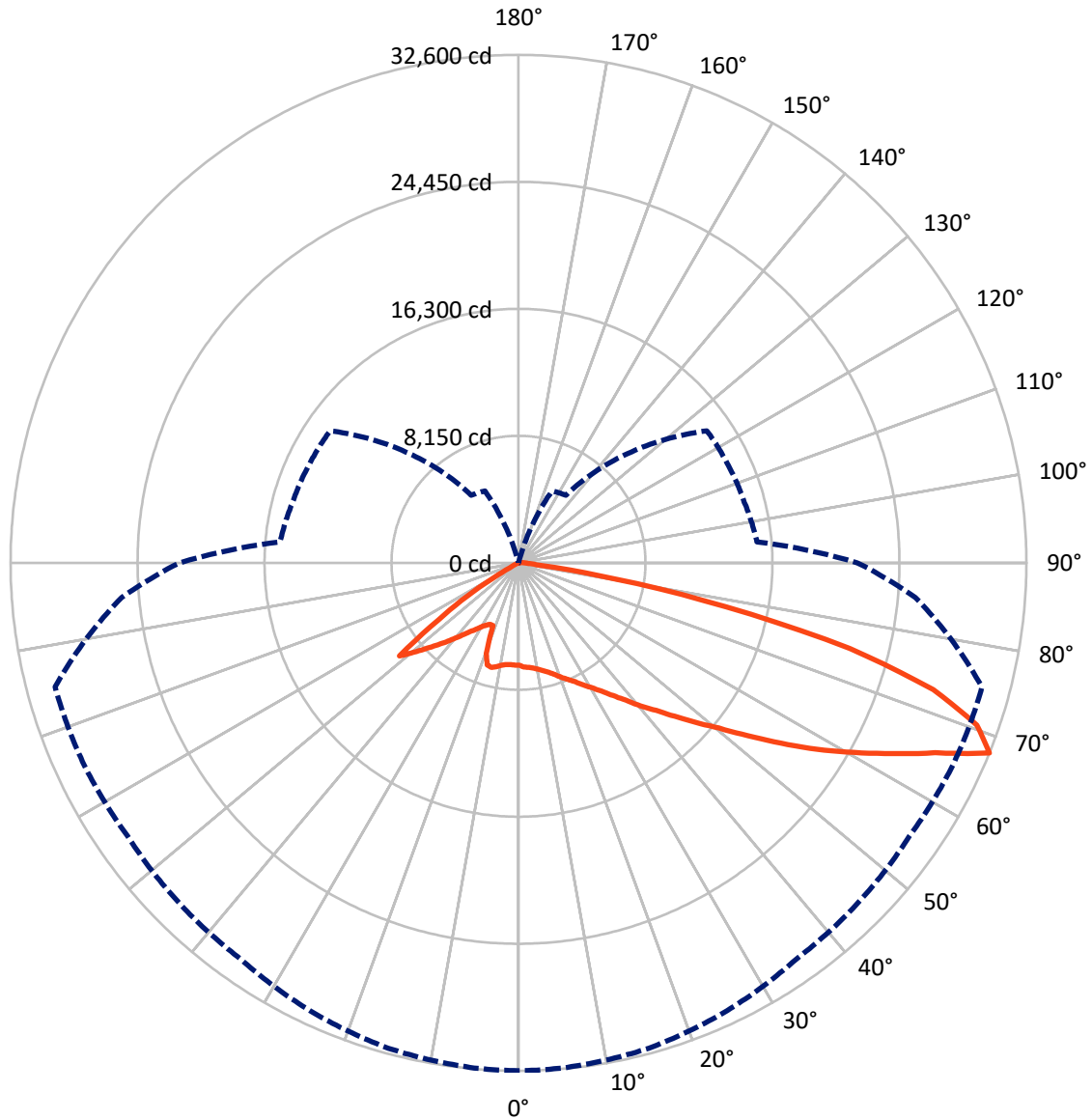
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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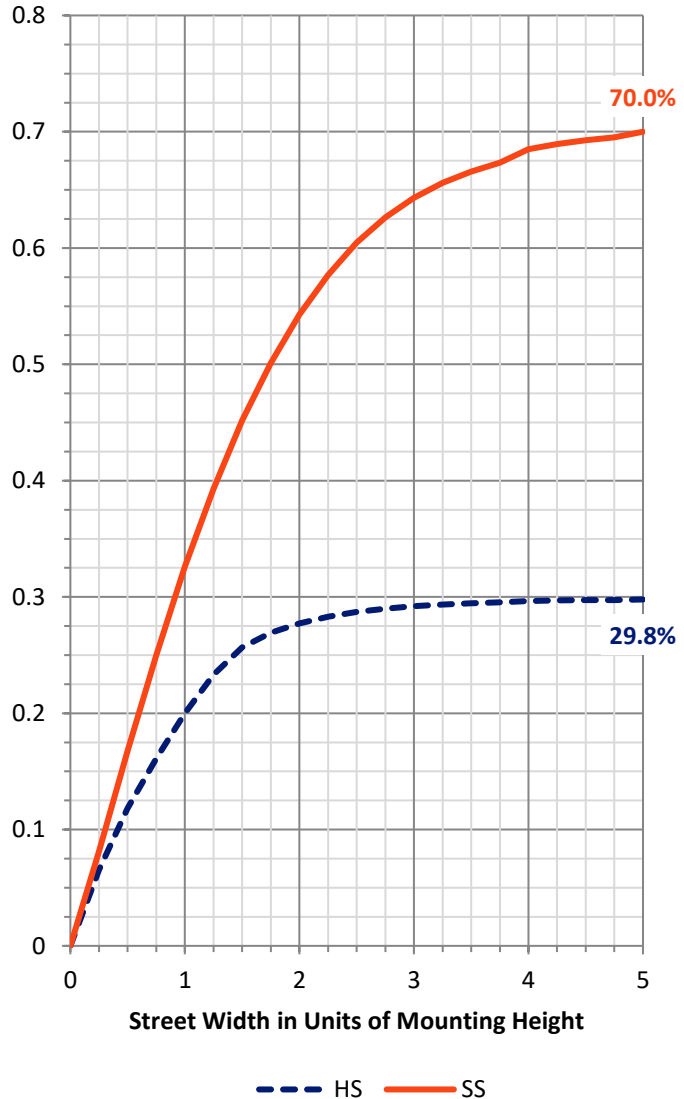
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19796.3	6.7	19803.0
	% Fixture	29.9	0.0	29.9
Street Side	Lumens	46440.4	74.6	46515.0
	% Fixture	70.0	0.1	70.1
Total	Lumens	66236.7	81.3	66318.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	633.5	1.0
10°-20°	1961.3	3.0
20°-30°	3291.4	5.0
30°-40°	5337.3	8.0
40°-50°	8721.6	13.2
50°-60°	13668.4	20.6
60°-70°	18306.1	27.6
70°-80°	13342.7	20.1
80°-90°	974.4	1.5
90°-100°	62.3	0.1
100°-110°	17.7	0.0
110°-120°	1.3	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°	66236.7	99.9
0°-180°	66318.0	100.0

Coefficient of Utilization

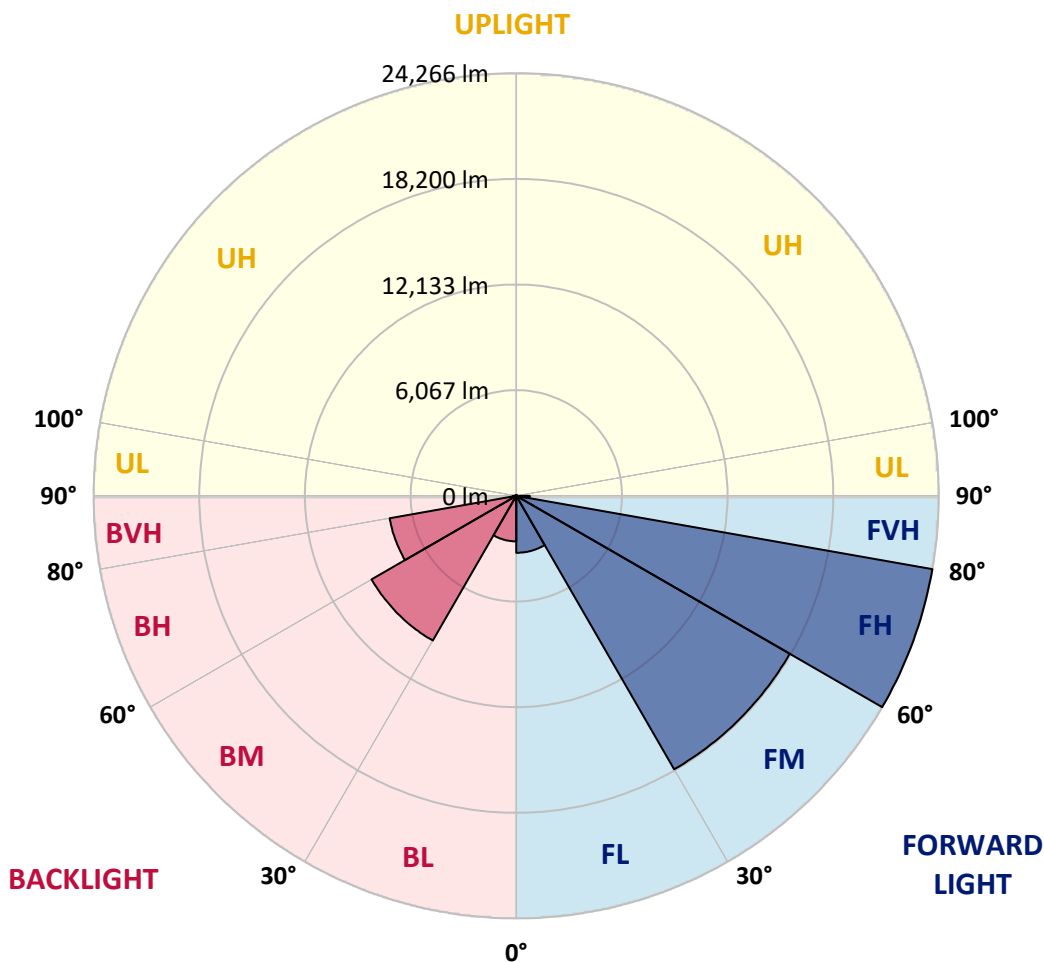


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3271.2	4.9			
FM (30°-60°)	18132.5	27.3			
FH (60°-80°)	24266.2	36.6			G5
FVH (80°-90°)	770.5	1.2			G5
BL (0°-30°)	2615.1	3.9	B4/5000		
BM (30°-60°)	9594.7	14.5	B5		
BH (60°-80°)	7382.6	11.1	B5		G5
BVH (80°-90°)	203.9	0.3			G2/225
UL (90°-100°)	62.3	0.1		U3/500	
UH (100°-180°)	19.0	0.0		U2/50	

BUG Rating: B5-U3-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6571.4	6571.4	6571.4	6571.4	6571.4	6571.4	6571.4	6571.4	6571.4	6571.4	6571.4
2.5°	6696.8	6657.8	6660.6	6696.8	6588.1	6624.3	6576.9	6613.2	6588.1	6596.4	6613.2
5°	6738.6	6696.8	6699.6	6744.2	6646.6	6677.3	6613.2	6632.7	6610.4	6621.5	6621.5
7.5°	6822.3	6774.9	6772.1	6800.0	6699.6	6710.8	6652.2	6655.0	6621.5	6643.8	6632.7
10°	6947.7	6908.7	6880.8	6897.6	6808.3	6802.8	6727.5	6730.3	6688.5	6713.5	6694.0
12.5°	7101.1	7048.1	7042.5	7048.1	6950.5	6928.2	6850.2	6855.7	6780.5	6819.5	6797.2
15°	7296.2	7212.6	7212.6	7243.3	7117.8	7101.1	7006.3	7011.9	6933.8	6964.5	6942.2
17.5°	7536.0	7455.2	7441.2	7463.5	7354.8	7332.5	7234.9	7229.3	7142.9	7151.3	7131.7
20°	7845.5	7764.6	7731.2	7786.9	7650.3	7633.6	7516.5	7505.3	7413.3	7388.2	7377.1
22.5°	8132.6	8068.5	8051.8	8113.1	7970.9	7957.0	7845.5	7831.5	7745.1	7708.9	7488.6
25°	8456.1	8442.1	8436.5	8456.1	8322.2	8294.4	8207.9	8188.4	8115.9	8071.3	7803.7
27.5°	8874.3	8868.7	8852.0	8854.7	8732.1	8707.0	8626.1	8612.2	8536.9	8486.7	8143.8
30°	9312.0	9312.0	9275.7	9295.2	9233.9	9194.9	9130.8	9080.6	9033.2	8980.2	8548.1
32.5°	9816.6	9813.8	9780.4	9838.9	9794.3	9794.3	9755.3	9702.3	9618.7	9593.6	9069.4
35°	10466.2	10424.4	10410.5	10505.2	10491.3	10516.4	10502.5	10446.7	10377.0	10318.5	9682.8
37.5°	11185.5	11174.4	11216.2	11274.7	11305.4	11372.3	11330.5	11327.7	11316.6	11168.8	9518.3
40°	12072.1	12024.7	12083.3	12113.9	12091.6	12200.4	12164.1	12194.8	12278.4	11090.7	9507.1
42.5°	12955.9	12914.1	12955.9	13106.5	13073.0	13204.0	13187.3	13307.2	13354.6	11255.2	10279.4
45°	14043.2	13995.8	14029.3	14207.7	14224.5	14383.4	14469.8	14584.1	14606.4	12320.2	11210.6
47.5°	15292.3	15214.2	15278.3	15362.0	15615.7	15766.2	15849.9	15989.3	16131.5	13602.7	12270.1
50°	16669.6	16664.0	16733.7	16878.7	17168.6	17319.2	17464.1	17609.1	17843.3	15033.0	13457.8
52.5°	18420.4	18384.2	18504.1	18640.7	18897.2	19128.6	19301.4	19452.0	19702.9	16480.0	14743.0
55°	20422.2	20296.8	20525.4	20756.8	20865.5	21138.7	21258.6	21384.1	21623.9	18002.2	15493.0
57.5°	22582.9	22552.3	22711.2	22794.8	23029.0	23199.1	23263.2	23399.8	23397.0	19585.8	16769.9
60°	24710.2	24676.7	24863.5	24913.7	25100.5	25253.9	25231.6	25354.2	25398.8	21071.8	18021.7
62.5°	26949.0	26893.2	27066.1	27077.2	26965.7	27213.8	27188.7	27291.9	27252.9	22524.4	19254.0
65°	29396.9	29438.7	29494.4	29265.8	28998.2	29212.8	29207.3	29402.4	29541.8	24554.1	20904.6
67.5°	32600.3	32547.3	32260.1	31708.1	31058.5	30841.0	30609.6	30751.8	30790.9	25563.3	21749.3
70°	31217.4	31100.3	30972.1	30408.9	29625.5	29073.4	28713.8	28864.3	29023.3	24158.2	20427.8
72.5°	27846.7	27556.8	26960.1	26463.9	26012.2	25474.1	25036.4	25298.5	25647.0	21428.7	18088.7
75°	21969.6	21699.1	21264.2	20926.9	20684.3	20678.7	20659.2	20862.7	20812.5	17400.0	14706.8
77.5°	13605.5	14171.5	14573.0	14285.8	14386.2	14179.9	14634.3	14902.0	15144.5	12473.6	10477.4
80°	6281.4	6426.4	7137.3	6953.3	6805.6	6763.7	6791.6	7257.2	7393.8	5598.3	4689.4
82.5°	1433.0	1374.5	1424.7	1321.5	1315.9	1254.6	1263.0	1263.0	1218.4	1031.6	864.3
85°	724.9	741.6	747.2	716.5	632.9	568.8	526.9	446.1	384.7	329.0	278.8
87.5°	485.1	499.1	507.4	465.6	418.2	365.2	331.8	270.4	214.7	133.8	103.2
90°	331.8	329.0	320.6	298.3	267.6	228.6	184.0	128.2	75.3	27.9	19.5
92.5°	237.0	231.4	228.6	209.1	186.8	156.1	119.9	80.9	41.8	19.5	11.2
95°	156.1	153.3	153.3	142.2	125.5	103.2	80.9	53.0	30.7	16.7	11.2
97.5°	108.7	105.9	105.9	100.4	89.2	75.3	55.8	36.2	25.1	16.7	11.2
100°	75.3	75.3	75.3	69.7	64.1	53.0	41.8	27.9	22.3	16.7	11.2
102.5°	50.2	50.2	53.0	50.2	44.6	36.2	27.9	22.3	19.5	13.9	11.2
105°	33.5	33.5	33.5	33.5	30.7	25.1	22.3	19.5	16.7	13.9	11.2
107.5°	22.3	22.3	22.3	22.3	19.5	16.7	16.7	16.7	13.9	13.9	11.2
110°	13.9	13.9	13.9	16.7	13.9	13.9	13.9	13.9	13.9	11.2	11.2



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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°	6571.4	6571.4	6571.4	6571.4	6571.4	6571.4	6571.4	6571.4	6571.4	6571.4
2.5°	6599.2	6560.2	6579.7	6540.7	6524.0	6487.7	6557.4	6563.0	6557.4	6568.6
5°	6607.6	6563.0	6585.3	6540.7	6532.3	6490.5	6560.2	6560.2	6543.5	6551.8
7.5°	6627.1	6579.7	6596.4	6543.5	6543.5	6493.3	6576.9	6571.4	6557.4	6576.9
10°	6694.0	6638.3	6638.3	6588.1	6593.7	6540.7	6643.8	6643.8	6632.7	6666.1
12.5°	6797.2	6727.5	6730.3	6660.6	6671.7	6629.9	6755.4	6760.9	6760.9	6816.7
15°	6931.0	6825.1	6836.2	6760.9	6783.2	6733.1	6844.6	6839.0	6852.9	6933.8
17.5°	7095.5	6978.4	6880.8	6635.5	6490.5	6496.1	6827.9	6981.2	6802.8	6855.7
20°	7165.2	6596.4	6287.0	6197.8	6178.2	5868.8	5235.9	5333.5	5930.1	6189.4
22.5°	6696.8	6515.6	6484.9	6370.6	5525.9	5291.7	5330.7	5274.9	4689.4	4357.7
25°	6925.4	6805.6	6735.8	5729.4	5539.8	5498.0	5470.1	4940.4	4304.7	4335.4
27.5°	7248.8	7092.7	6256.3	5754.5	5790.7	5726.6	5564.9	4444.1	4424.6	4474.8
30°	7630.8	7237.7	6097.4	6050.0	6091.8	6008.2	4678.3	4633.7	4633.7	4683.9
32.5°	8099.2	6565.8	6471.0	6476.6	6448.7	5500.8	4923.6	4912.5	4945.9	4987.8
35°	7968.2	7003.5	7011.9	7059.3	6995.1	5380.9	5308.4	5266.6	5294.4	5311.2
37.5°	7711.7	7661.5	7661.5	7608.5	5971.9	5801.9	5723.8	5718.2	5715.4	5715.4
40°	8358.5	8311.1	8252.5	8160.5	6247.9	6292.6	6175.5	6161.5	6169.9	6200.6
42.5°	9094.5	9075.0	9069.4	7003.5	6822.3	6855.7	6730.3	6694.0	6694.0	6763.7
45°	9961.6	9936.5	9320.3	7485.8	7455.2	7494.2	7354.8	7268.4	7315.8	7365.9
47.5°	10956.9	10956.9	8252.5	8207.9	8207.9	8230.2	8090.8	7973.7	8021.1	8037.9
50°	12047.0	10343.5	9080.6	9038.8	9077.8	9066.6	8921.7	7834.3	8840.8	8849.2
52.5°	12350.9	10059.2	9989.5	9942.1	9989.5	9981.1	9830.5	6535.1	9562.9	9699.5
55°	10948.5	10956.9	10943.0	10873.3	10923.5	10903.9	10756.2	7134.5	7050.9	6284.2
57.5°	11837.9	11849.1	11843.5	11832.3	11877.0	8628.9	11140.9	6445.9	3936.7	3939.5
60°	12805.4	12749.6	12732.9	12707.8	10770.1	6116.9	4642.0	448.9	1539.0	1516.7
62.5°	13683.6	13664.1	13605.5	13591.6	9139.1	4817.7	4706.2	103.2	80.9	78.1
65°	14904.7	14731.9	14684.5	14536.7	9741.3	5130.0	5024.0	30.7	2.8	0.0
67.5°	15359.2	15007.9	14837.8	14759.8	9911.4	5291.7	5088.1	30.7	2.8	0.0
70°	14500.5	14065.5	13850.9	13764.4	9261.8	4945.9	4745.2	30.7	2.8	0.0
72.5°	12858.3	12537.7	12451.3	12175.3	8166.1	4340.9	4165.3	30.7	0.0	0.0
75°	10547.1	10430.0	10324.0	10031.3	6638.3	3448.8	3292.6	27.9	0.0	0.0
77.5°	7675.4	7502.6	7307.4	6989.6	4480.3	2252.7	2171.9	25.1	0.0	0.0
80°	3459.9	3317.7	3270.3	2774.1	1589.2	733.2	646.8	22.3	0.0	0.0
82.5°	671.9	605.0	574.3	552.0	356.9	197.9	172.9	16.7	0.0	0.0
85°	228.6	253.7	295.5	326.2	200.7	119.9	100.4	11.2	0.0	0.0
87.5°	89.2	119.9	145.0	150.6	75.3	50.2	27.9	5.6	0.0	0.0
90°	16.7	22.3	19.5	13.9	8.4	2.8	0.0	0.0	0.0	0.0
92.5°	8.4	11.2	8.4	8.4	5.6	2.8	0.0	0.0	0.0	0.0
95°	11.2	11.2	11.2	8.4	5.6	2.8	0.0	0.0	0.0	0.0
97.5°	11.2	11.2	11.2	8.4	5.6	2.8	0.0	0.0	0.0	0.0
100°	11.2	11.2	11.2	8.4	5.6	2.8	0.0	0.0	0.0	0.0
102.5°	11.2	11.2	11.2	8.4	5.6	2.8	0.0	0.0	0.0	0.0
105°	11.2	13.9	11.2	8.4	5.6	2.8	0.0	0.0	0.0	0.0
107.5°	11.2	13.9	11.2	8.4	5.6	2.8	0.0	0.0	0.0	0.0
110°	11.2	13.9	11.2	8.4	5.6	2.8	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)