

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: P579635

Luminaire Tested: **CTN-CA10-760-727-U-T5-HSS-HM-EX180**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-3)
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-EX180
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: 55631 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U3 - G5

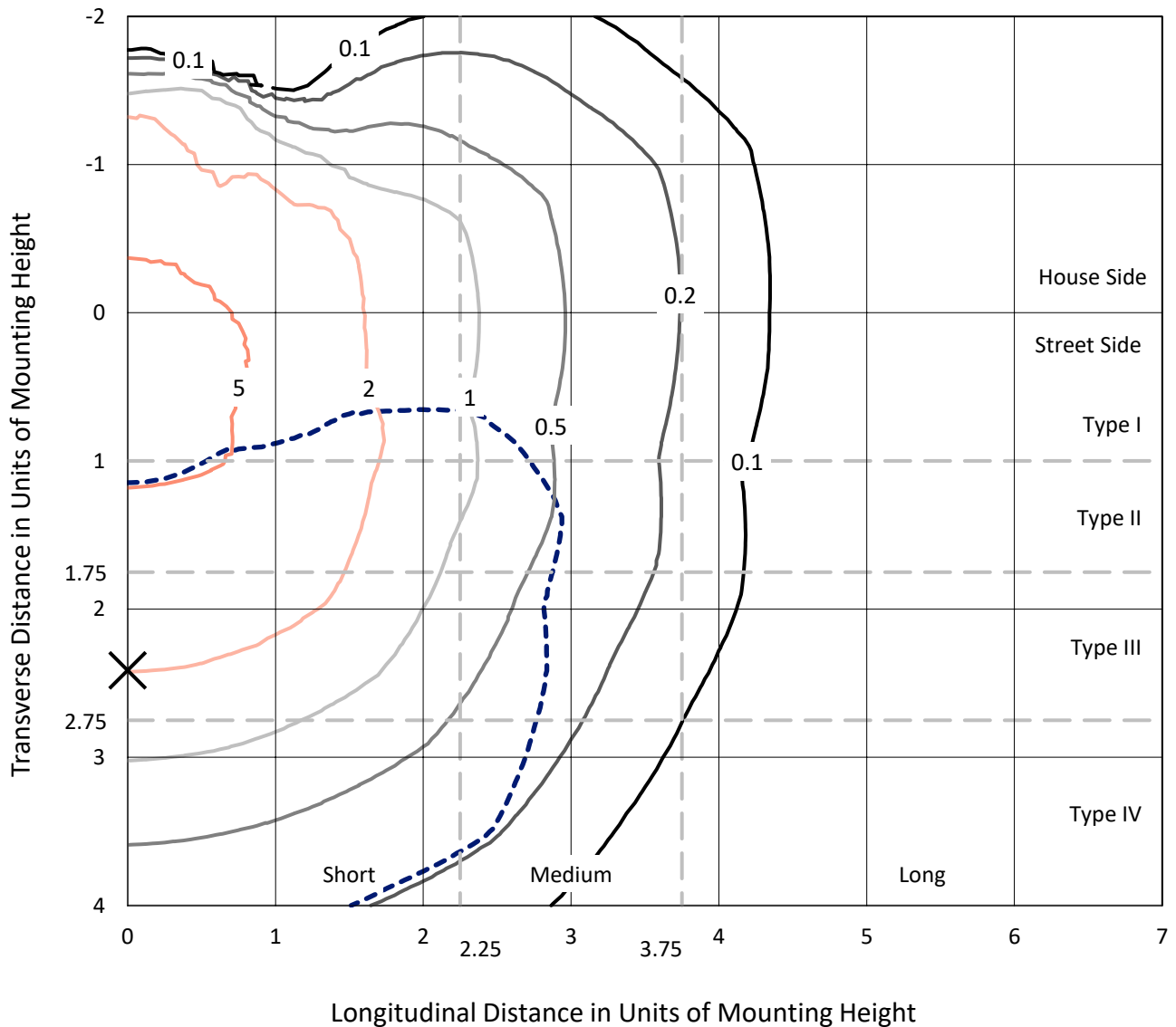
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

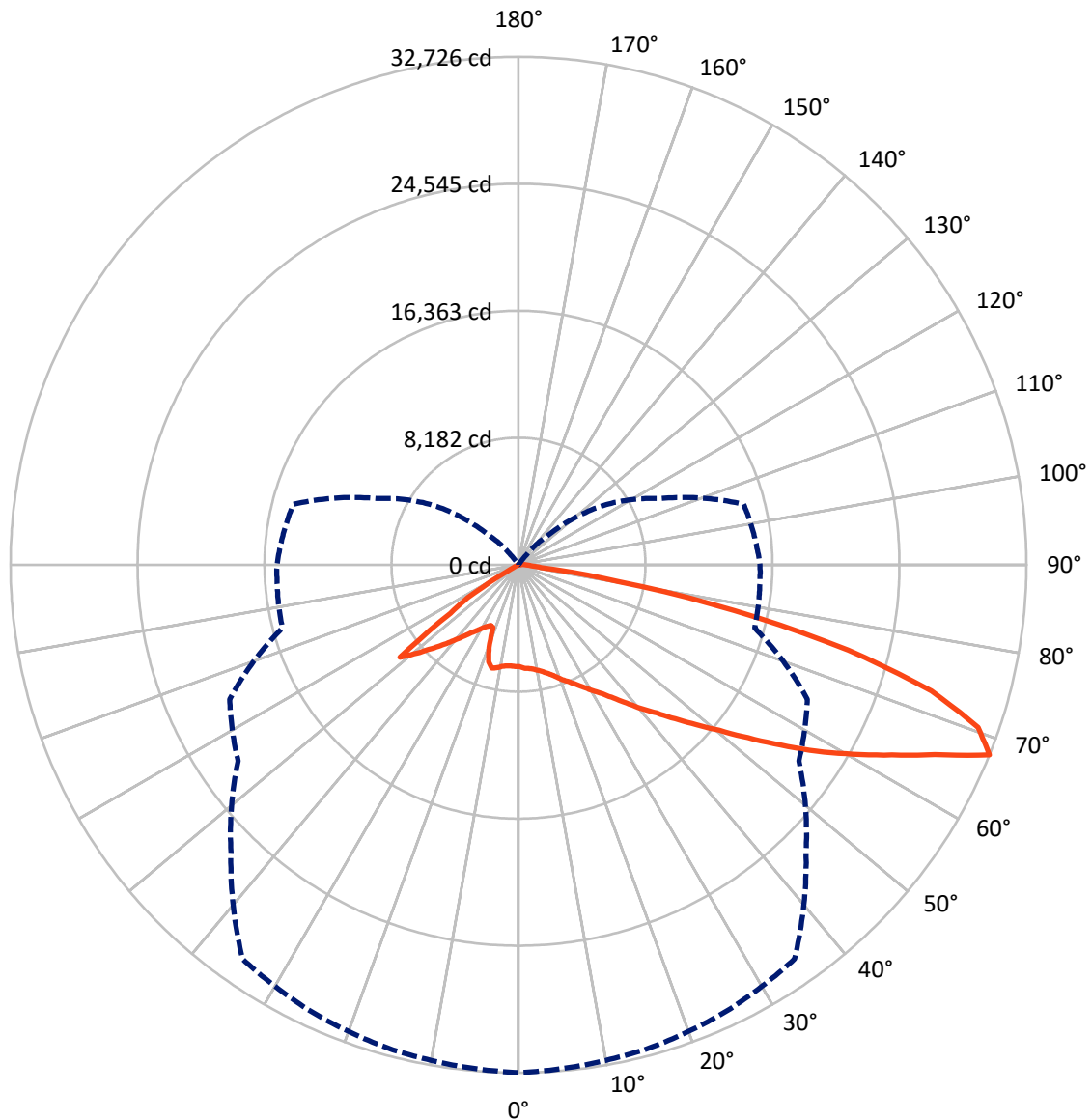
✕ Max cd
 - - - 1/2 Max cd



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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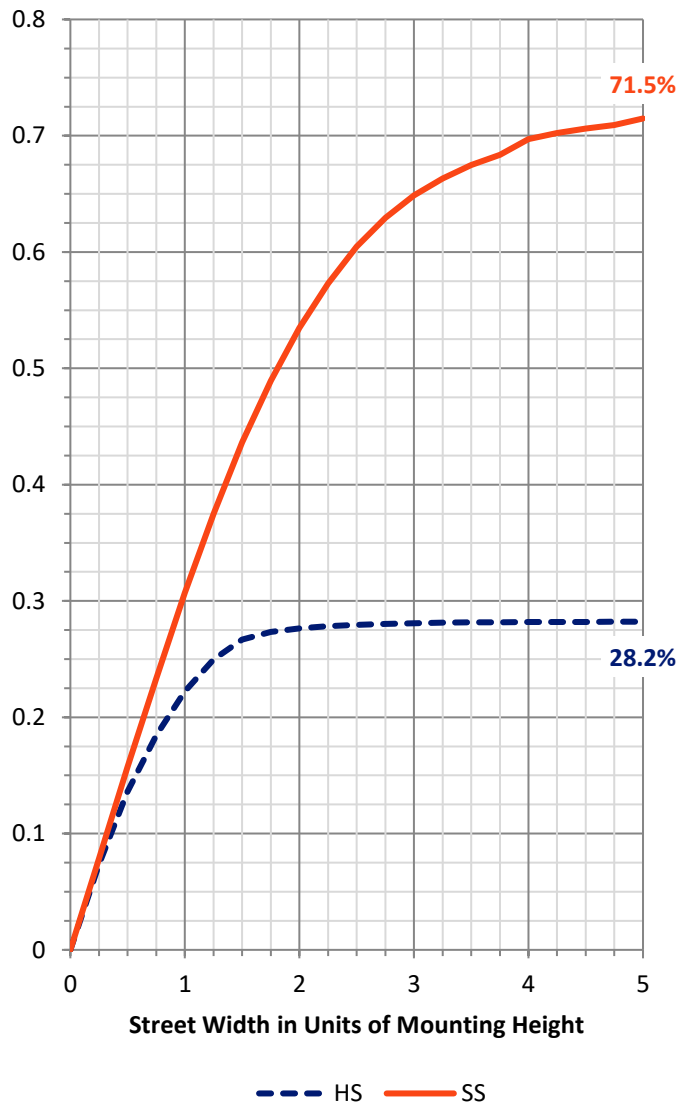
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15766.9	0.2	15767.1
	% Fixture	28.3	0.0	28.3
Street Side	Lumens	39793.1	70.9	39863.9
	% Fixture	71.5	0.1	71.7
Total	Lumens	55559.9	71.1	55631.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	631.8	1.1
10°-20°	1945.1	3.5
20°-30°	3220.8	5.8
30°-40°	5070.1	9.1
40°-50°	7934.7	14.3
50°-60°	11456.5	20.6
60°-70°	14192.6	25.5
70°-80°	10336.1	18.6
80°-90°	772.2	1.4
90°-100°	60.6	0.1
100°-110°	10.1	0.0
110°-120°	0.3	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°	55559.9	99.9
0°-180°	55631.0	100.0

Coefficient of Utilization

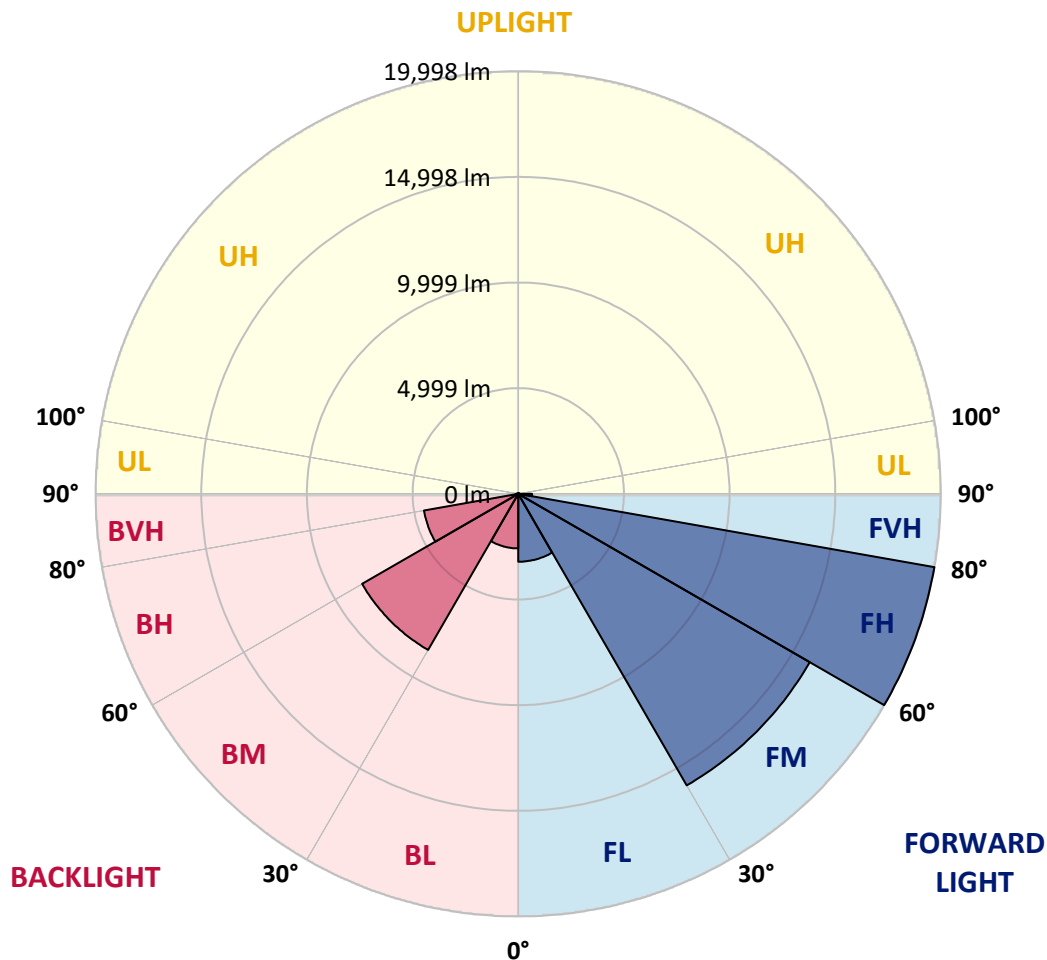


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3213.1	5.8			
FM	(30°-60°)	15931.1	28.6			
FH	(60°-80°)	19997.5	35.9			G5
FVH	(80°-90°)	651.3	1.2			G4/750
BL	(0°-30°)	2584.7	4.6	B4/5000		
BM	(30°-60°)	8530.2	15.3	B5		
BH	(60°-80°)	4531.2	8.1	B4/5000		G4/5000
BVH	(80°-90°)	120.8	0.2			G2/225
UL	(90°-100°)	60.6	0.1		U3/500	
UH	(100°-180°)	10.5	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°	6551.9	6551.9	6551.9	6551.9	6551.9	6551.9	6551.9	6551.9	6551.9	6551.9	6551.9
2.5°	6671.8	6635.5	6635.5	6674.6	6565.8	6599.3	6554.7	6593.7	6571.4	6582.6	6596.5
5°	6710.8	6669.0	6671.8	6719.2	6621.6	6649.5	6596.5	6616.0	6596.5	6604.9	6604.9
7.5°	6783.3	6747.1	6747.1	6774.9	6677.4	6685.7	6638.3	6638.3	6613.2	6632.8	6616.0
10°	6919.9	6880.9	6861.4	6875.3	6788.9	6777.7	6713.6	6713.6	6674.6	6705.2	6680.1
12.5°	7084.4	7028.7	7023.1	7025.9	6928.3	6908.8	6836.3	6839.1	6766.6	6808.4	6777.7
15°	7282.4	7212.7	7207.1	7218.2	7115.1	7078.8	6998.0	6998.0	6917.1	6939.4	6897.6
17.5°	7536.1	7455.2	7441.3	7460.8	7357.6	7324.2	7229.4	7212.7	7123.4	7106.7	7070.5
20°	7870.6	7778.6	7750.8	7792.6	7661.5	7630.9	7516.6	7480.3	7360.4	7162.5	6903.2
22.5°	8171.8	8099.3	8082.5	8110.4	7990.5	7959.9	7848.3	7773.1	7483.1	7084.4	6844.6
25°	8514.7	8486.8	8478.4	8461.7	8353.0	8300.0	8194.1	8088.1	7430.1	6883.7	6878.1
27.5°	8938.5	8924.5	8885.5	8871.6	8751.7	8718.2	8578.8	7895.7	7240.5	7201.5	7179.2
30°	9401.3	9373.4	9334.4	9337.2	9256.3	9195.0	8863.2	7725.7	7605.8	7605.8	7547.2
32.5°	9914.3	9883.6	9844.6	9852.9	9819.5	9766.5	8768.4	8174.5	8082.5	8107.6	8035.1
35°	10550.0	10499.8	10485.8	10519.3	10522.1	10179.1	8935.7	8785.1	8712.6	8695.9	8422.7
37.5°	11291.6	11249.8	11299.9	11378.0	11288.8	10285.1	9602.0	9554.6	9482.1	9077.9	8431.0
40°	12181.0	12105.7	12167.0	12217.2	12158.7	10915.2	10301.8	10318.5	10254.4	9055.6	8339.0
42.5°	13062.0	12989.5	13042.5	13167.9	13145.6	11695.8	11155.0	11191.2	10544.4	9108.5	9052.8
45°	14152.1	14127.0	14110.3	14213.4	14299.9	12629.8	12167.0	12164.2	10338.1	9950.5	9900.3
47.5°	15387.2	15353.7	15362.1	15493.2	15624.2	13745.0	13363.1	12242.3	10870.6	10909.6	10865.0
50°	16764.5	16728.3	16837.0	17026.6	17093.5	14996.9	14528.5	12030.4	11980.2	12022.0	11946.8
52.5°	18512.6	18431.7	18599.0	18802.6	18889.0	16477.3	14592.6	13282.2	13198.6	13207.0	12967.2
55°	20500.5	20436.4	20586.9	20815.5	20943.8	18130.6	15925.3	14500.6	14450.4	13028.5	11732.1
57.5°	22661.2	22588.7	22789.5	22856.4	22889.8	19839.7	17266.3	15822.1	13499.7	11896.6	11824.1
60°	24780.1	24702.1	24955.8	24966.9	25064.5	21546.0	18540.5	17096.3	13006.2	12794.3	12733.0
62.5°	27005.0	26907.4	27130.4	27122.1	26929.7	23107.3	19803.5	18320.2	13887.2	13720.0	13625.2
65°	29475.2	29402.7	29558.8	29307.9	28925.9	24721.6	21113.8	19652.9	14913.2	14882.6	14860.3
67.5°	32726.0	32583.9	32268.8	31733.5	31003.0	26202.0	22050.6	20531.1	15746.9	15604.7	15560.1
70°	31418.5	31251.2	31011.4	30423.1	29678.7	24810.8	20545.1	19204.0	14723.7	14729.2	14623.3
72.5°	27819.1	27529.1	27303.3	26478.0	26068.2	21668.7	17902.0	16666.9	12735.8	12972.8	12922.6
75°	21944.7	21649.1	21278.3	20954.9	20910.3	17575.8	14433.7	13544.3	10154.1	10326.9	10452.4
77.5°	14224.6	14115.9	14584.2	14277.6	14553.6	12102.9	10310.2	9546.3	6998.0	7435.7	7377.2
80°	6510.1	6384.6	7137.4	6925.5	7028.7	5944.1	5038.0	4840.0	3167.2	3189.5	3256.4
82.5°	1472.1	1421.9	1474.9	1355.0	1321.5	1118.0	984.2	892.2	560.4	593.9	624.5
85°	805.7	805.7	794.6	738.8	632.9	521.4	412.6	317.8	172.9	189.6	186.8
87.5°	566.0	552.0	549.2	490.7	421.0	356.9	284.4	203.5	97.6	66.9	61.3
90°	387.5	382.0	362.4	326.2	281.6	231.4	172.9	100.4	41.8	19.5	13.9
92.5°	281.6	276.0	262.1	231.4	192.4	156.1	114.3	66.9	33.5	13.9	2.8
95°	186.8	184.0	175.6	150.6	125.5	100.4	72.5	41.8	27.9	11.2	2.8
97.5°	128.2	125.5	117.1	100.4	80.9	64.1	44.6	30.7	22.3	8.4	2.8
100°	86.4	83.6	78.1	64.1	50.2	39.0	27.9	22.3	16.7	8.4	2.8
102.5°	55.8	53.0	47.4	39.0	27.9	22.3	19.5	16.7	11.2	5.6	2.8
105°	33.5	30.7	25.1	19.5	16.7	13.9	13.9	11.2	8.4	2.8	2.8
107.5°	16.7	13.9	11.2	11.2	11.2	8.4	8.4	8.4	5.6	2.8	0.0
110°	2.8	2.8	5.6	5.6	5.6	5.6	5.6	5.6	5.6	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°	6551.9	6551.9	6551.9	6551.9	6551.9	6551.9	6551.9	6551.9	6551.9	6551.9
2.5°	6582.6	6538.0	6563.1	6524.0	6515.7	6473.8	6540.7	6549.1	6543.5	6554.7
5°	6590.9	6543.5	6571.4	6524.0	6524.0	6479.4	6543.5	6543.5	6526.8	6532.4
7.5°	6613.2	6565.8	6585.4	6532.4	6535.2	6482.2	6560.3	6551.9	6538.0	6557.5
10°	6677.4	6624.4	6621.6	6571.4	6582.6	6526.8	6624.4	6624.4	6610.4	6646.7
12.5°	6780.5	6702.5	6688.5	6627.2	6649.5	6602.1	6722.0	6727.5	6730.3	6788.9
15°	6889.3	6794.5	6808.4	6735.9	6727.5	6702.5	6811.2	6805.6	6802.8	6883.7
17.5°	7042.6	6596.5	6524.0	6473.8	6462.7	6401.3	6501.7	6694.1	6593.7	6538.0
20°	6800.0	6565.8	6278.7	6181.1	6161.6	5629.1	5208.1	5397.7	5654.2	5676.5
22.5°	6579.8	6496.1	6473.8	6320.5	5470.1	5291.7	5308.4	5238.7	4630.9	4366.1
25°	6853.0	6780.5	6685.7	5748.9	5548.2	5484.1	5464.6	4750.8	4271.3	4301.9
27.5°	7156.9	7076.1	6250.8	5762.9	5807.5	5718.3	5277.8	4433.0	4405.1	4458.1
30°	7536.1	6889.3	6100.2	6072.4	6114.2	5999.9	4689.5	4628.2	4619.8	4675.5
32.5°	7968.2	6643.9	6501.7	6501.7	6482.2	5247.1	4940.4	4898.6	4920.9	4979.4
35°	7806.5	7028.7	7011.9	7081.6	6613.2	5383.7	5341.9	5269.4	5286.1	5305.6
37.5°	7628.1	7661.5	7669.9	7633.7	4823.3	5774.0	5740.6	5726.6	5709.9	5715.5
40°	8291.6	8313.9	8305.6	7973.8	5205.3	5849.3	6192.2	6167.1	6164.4	6197.8
42.5°	9066.7	9128.1	9080.7	7034.2	5715.5	4918.1	6713.6	6699.7	6694.1	6763.8
45°	9939.4	9997.9	9002.6	7533.3	6259.2	5091.0	6749.9	7268.4	7310.2	7371.6
47.5°	10884.5	10873.4	8308.4	8300.0	6897.6	5570.5	5612.3	7948.7	8018.4	8040.7
50°	11971.9	10184.7	9097.4	8790.7	7619.7	6108.6	5949.7	7293.5	8832.5	8854.8
52.5°	11740.4	10076.0	10003.5	7711.7	8266.5	6702.5	6546.3	6504.5	9155.9	9694.0
55°	10943.1	11026.7	10923.6	8461.7	6061.2	7232.2	7134.6	7092.8	6811.2	5392.1
57.5°	11829.7	11854.8	11765.5	9150.4	6164.4	4508.3	7023.1	6025.0	3914.4	3894.9
60°	12749.7	12791.5	8762.8	6722.0	3950.7	1508.3	359.7	379.2	1081.8	950.7
62.5°	13628.0	13669.8	9275.8	6142.1	2495.3	111.5	72.5	50.2	55.8	55.8
65°	14773.8	14790.6	9928.2	6501.7	2592.9	27.9	8.4	0.0	0.0	0.0
67.5°	15367.7	15024.8	10092.7	6666.2	2662.6	16.7	5.6	0.0	0.0	0.0
70°	14469.9	14101.9	9395.7	6248.0	2481.4	13.9	2.8	0.0	0.0	0.0
72.5°	12749.7	12571.3	8433.8	5539.8	2197.0	8.4	2.8	0.0	0.0	0.0
75°	10566.7	10329.7	6992.4	4617.0	1817.8	5.6	0.0	0.0	0.0	0.0
77.5°	7516.6	7544.4	4873.5	3365.2	1237.9	5.6	0.0	0.0	0.0	0.0
80°	3289.9	3365.2	2135.6	1544.6	437.7	2.8	0.0	0.0	0.0	0.0
82.5°	627.3	577.1	278.8	220.3	55.8	0.0	0.0	0.0	0.0	0.0
85°	206.3	225.8	103.2	83.6	25.1	0.0	0.0	0.0	0.0	0.0
87.5°	72.5	92.0	30.7	25.1	5.6	0.0	0.0	0.0	0.0	0.0
90°	11.2	11.2	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)