

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: P579636

Luminaire Tested: **CTN-CA10-760-727-U-T5-HSS-HM-EX90**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-1)
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-EX90
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: 72827 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U2 - G5

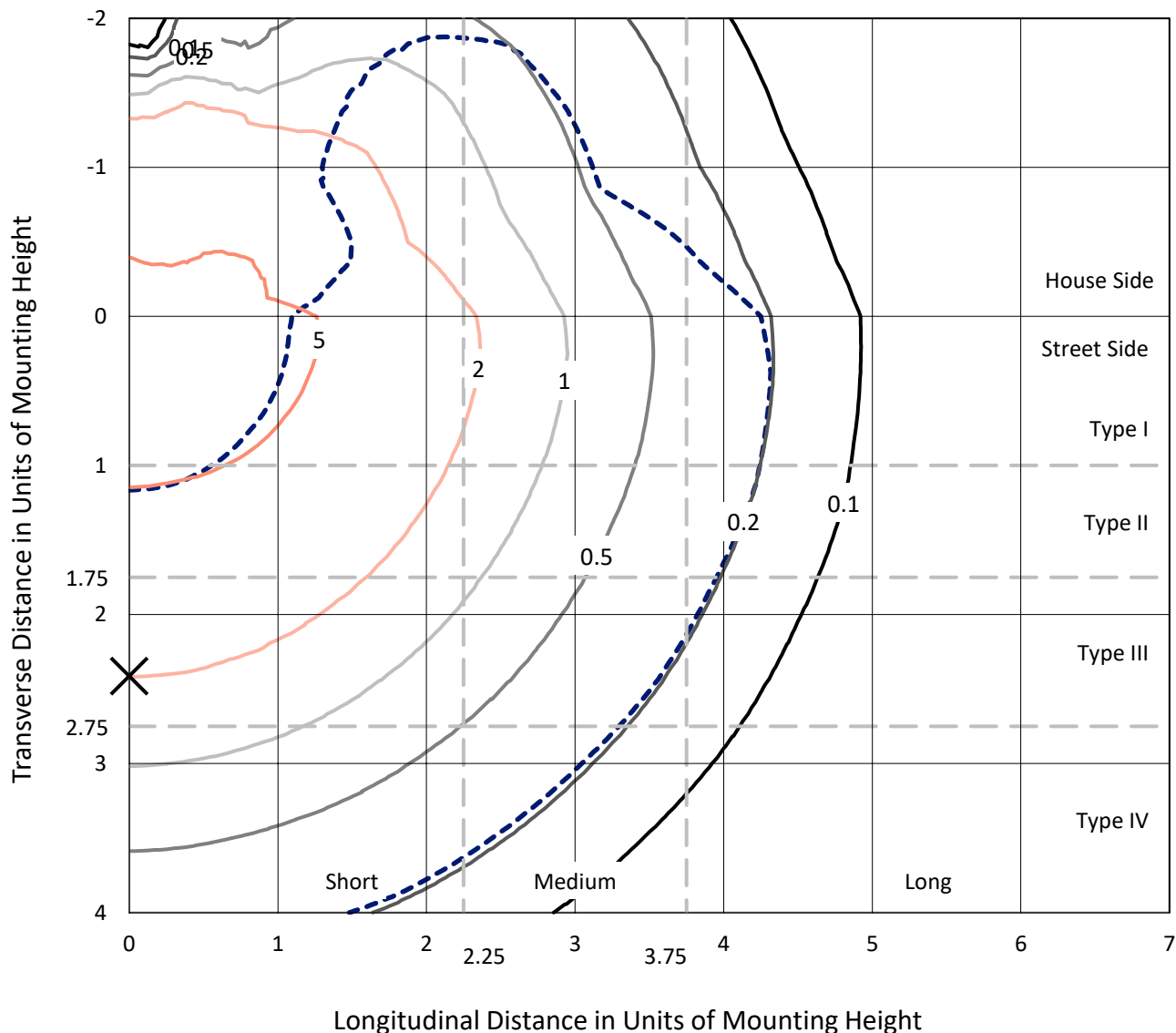
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

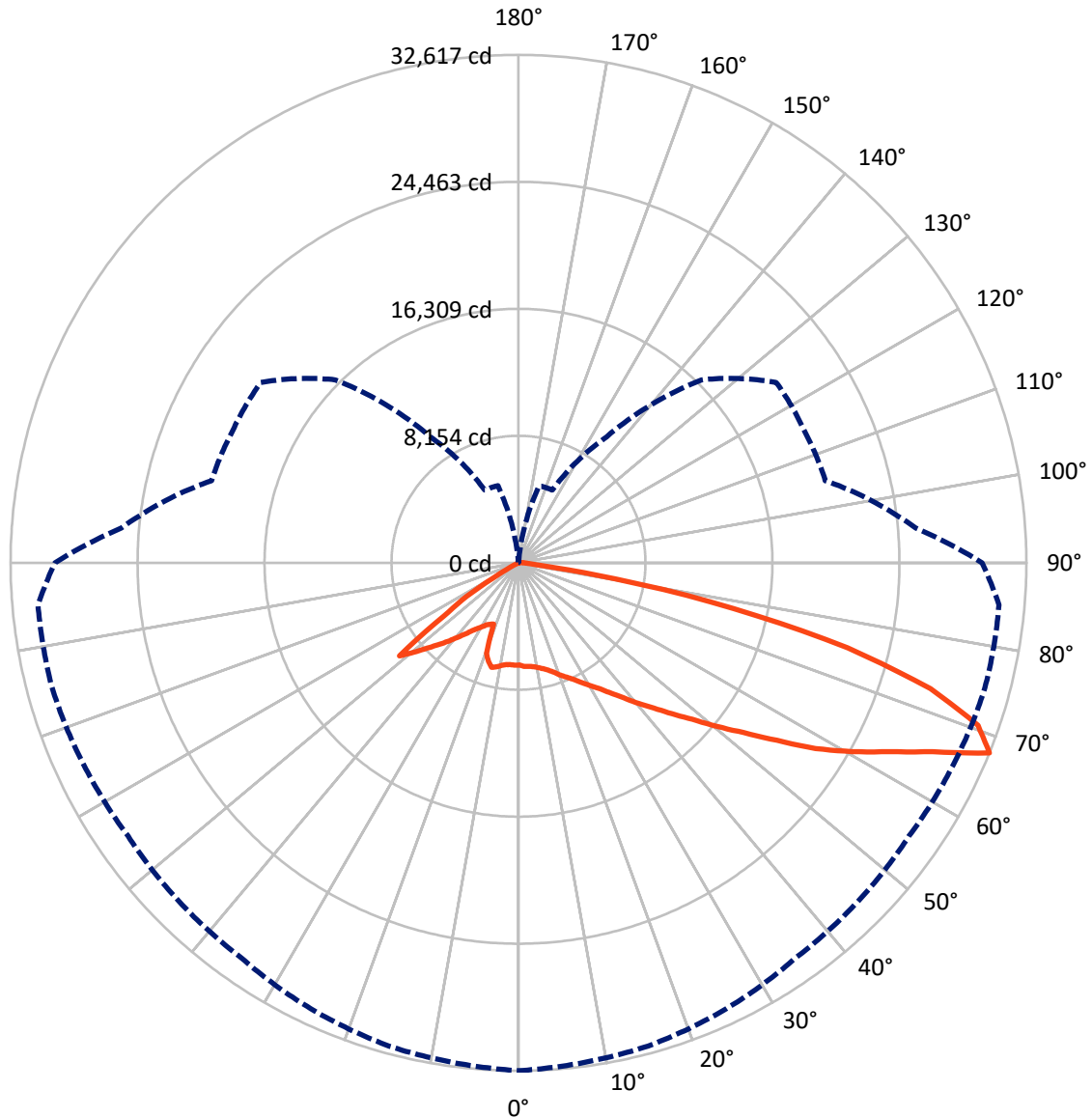
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.3 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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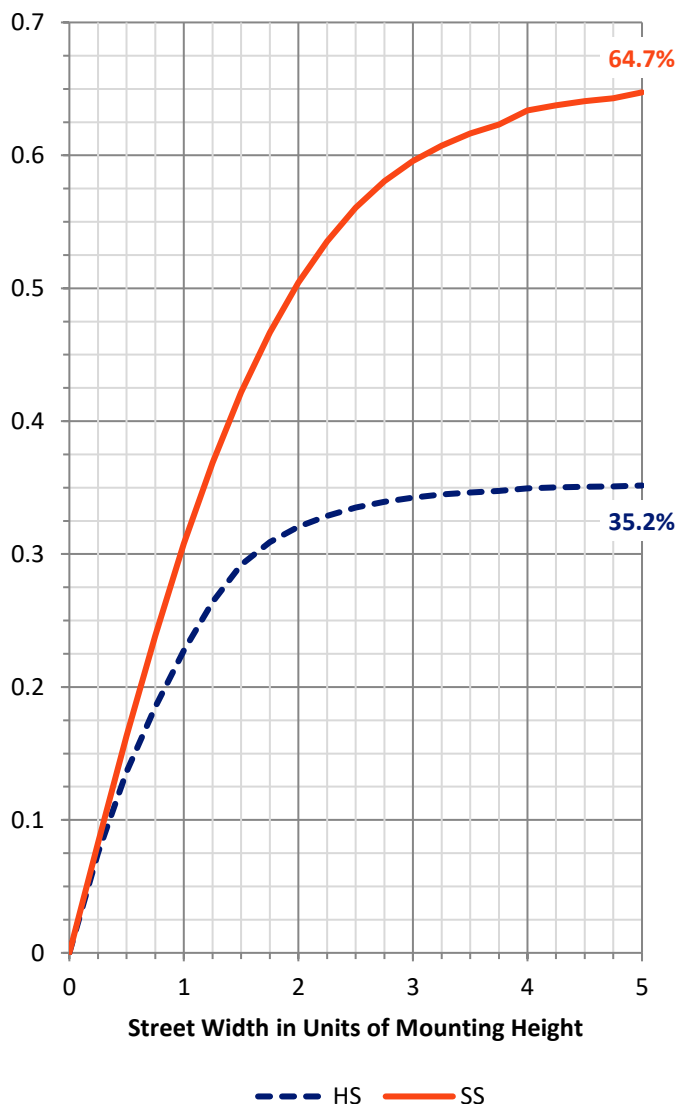
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25635.0	1.5	25636.5
	% Fixture	35.2	0.0	35.2
Street Side	Lumens	47139.1	51.4	47190.5
	% Fixture	64.7	0.1	64.8
Total	Lumens	72774.1	52.9	72827.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	631.4	0.9
10°-20°	1961.4	2.7
20°-30°	3400.6	4.7
30°-40°	5579.8	7.7
40°-50°	9307.3	12.8
50°-60°	15062.6	20.7
60°-70°	20791.3	28.5
70°-80°	15000.0	20.6
80°-90°	1039.7	1.4
90°-100°	45.1	0.1
100°-110°	7.5	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°	72774.1	99.9
0°-180°	72827.0	100.0

Coefficient of Utilization

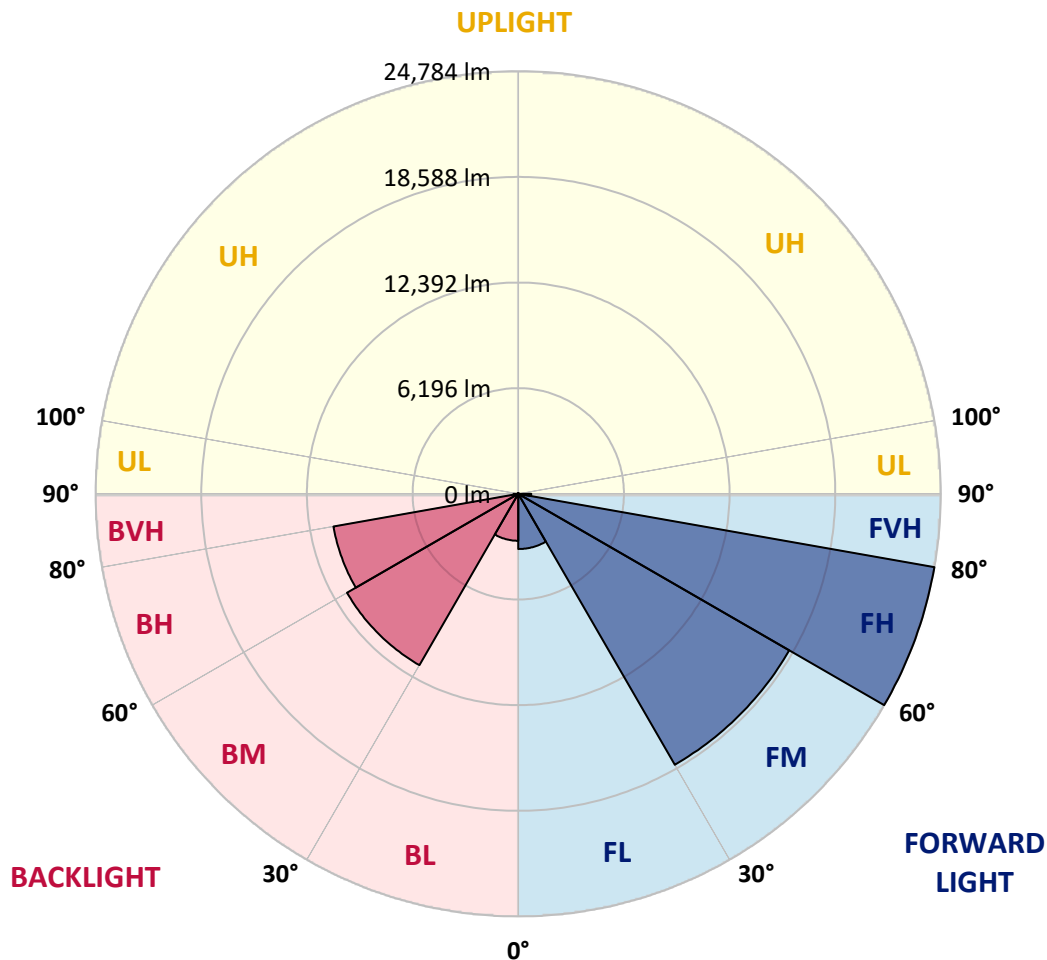


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3238.5	4.4			
FM (30°-60°)	18350.6	25.2			
FH (60°-80°)	24784.0	34.0			G5
FVH (80°-90°)	766.1	1.1			G5
BL (0°-30°)	2754.8	3.8	B4/5000		
BM (30°-60°)	11599.2	15.9	B5		
BH (60°-80°)	11007.3	15.1	B5		G5
BVH (80°-90°)	273.6	0.4			G3/500
UL (90°-100°)	45.1	0.1		U2/50	
UH (100°-180°)	7.8	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°	6563.0	6563.0	6563.0	6563.0	6563.0	6563.0	6563.0	6563.0	6563.0	6563.0	6563.0
2.5°	6663.4	6624.3	6627.1	6666.1	6560.2	6599.2	6554.6	6593.7	6574.1	6588.1	6604.8
5°	6682.9	6635.5	6641.1	6688.4	6604.8	6635.5	6582.5	6604.8	6588.1	6604.8	6607.6
7.5°	6733.1	6685.7	6688.4	6724.7	6638.3	6660.6	6610.4	6621.5	6593.7	6624.3	6616.0
10°	6839.0	6794.4	6777.7	6808.3	6733.1	6735.8	6677.3	6688.4	6646.6	6688.4	6671.7
12.5°	6981.2	6919.9	6925.4	6942.2	6850.2	6855.7	6786.0	6802.8	6733.1	6791.6	6772.1
15°	7154.0	7078.8	7087.1	7115.0	7025.8	7017.4	6953.3	6953.3	6892.0	6936.6	6917.1
17.5°	7393.8	7310.2	7304.6	7324.1	7251.6	7251.6	7179.1	7170.8	7109.4	7145.7	7140.1
20°	7706.1	7611.3	7594.6	7630.8	7538.8	7549.9	7457.9	7449.6	7382.7	7405.0	7407.8
22.5°	7987.7	7912.4	7909.6	7965.4	7856.6	7870.6	7786.9	7764.6	7708.9	7739.5	7747.9
25°	8311.1	8299.9	8291.6	8311.1	8202.3	8202.3	8143.8	8124.3	8088.0	8110.3	8132.6
27.5°	8718.1	8712.5	8690.2	8693.0	8601.0	8615.0	8550.8	8539.7	8523.0	8520.2	8509.0
30°	9167.0	9141.9	9111.2	9130.7	9088.9	9102.9	9047.1	9010.9	9005.3	9008.1	8991.3
32.5°	9666.0	9632.6	9613.1	9646.5	9663.3	9702.3	9699.5	9599.1	9599.1	9641.0	9565.7
35°	10285.0	10232.0	10248.7	10293.4	10326.8	10427.2	10410.4	10340.7	10363.1	10382.6	10293.4
37.5°	11012.7	10976.4	11051.7	11135.3	11138.1	11280.3	11246.9	11263.6	11260.8	11235.7	11177.2
40°	11885.3	11826.8	11904.8	11968.9	11929.9	12100.0	12094.4	12169.7	12219.9	12306.3	12272.8
42.5°	12752.4	12707.8	12783.0	12922.4	12900.1	13095.3	13123.2	13240.3	13310.0	13443.8	13365.7
45°	13820.2	13795.1	13864.8	13973.5	14048.8	14308.1	14411.2	14461.4	14637.1	14798.8	14617.6
47.5°	15016.2	15049.7	15038.6	15236.5	15403.8	15718.8	15760.6	15922.4	16075.7	16254.1	16078.5
50°	16505.0	16449.3	16499.5	16689.1	16962.3	17190.9	17405.6	17637.0	17787.5	17971.5	17648.1
52.5°	18108.2	18155.6	18267.1	18559.8	18760.6	19031.0	19226.1	19502.2	19649.9	19808.8	19387.9
55°	20129.5	20168.5	20291.2	20592.3	20734.5	21041.1	21175.0	21451.0	21593.2	21662.9	21124.8
57.5°	22499.3	22368.2	22468.6	22624.7	22845.0	23176.8	23213.0	23472.3	23472.3	23561.5	22875.7
60°	24615.4	24526.2	24632.1	24855.2	24941.6	25242.7	25212.0	25423.9	25479.7	25412.8	24593.1
62.5°	26700.8	26717.5	26854.2	26926.6	26893.2	27071.6	27144.1	27367.2	27275.1	27297.5	26352.3
65°	29232.3	29271.4	29257.4	29123.6	28822.5	29173.8	29154.3	29508.3	29530.7	29731.4	28632.9
67.5°	32617.0	32444.1	32129.1	31591.0	30994.4	30788.0	30606.8	30782.5	31008.3	30972.1	29767.6
70°	31301.0	31019.5	30855.0	30386.6	29589.2	29176.6	28800.2	28830.9	29159.8	29190.5	27958.2
72.5°	27671.0	27528.9	26896.0	26486.1	25939.7	25621.9	25167.4	25270.6	25699.9	25772.4	24791.0
75°	21827.4	21696.3	21124.8	20991.0	20720.5	20876.7	20765.1	20807.0	21152.7	20834.8	20246.6
77.5°	14126.9	14157.5	14068.3	14372.2	14361.1	14369.4	14776.5	14818.3	15155.6	14960.5	14391.7
80°	6334.4	6426.4	6643.8	7084.3	6816.7	6961.7	7117.8	7070.4	7410.5	6641.1	6917.1
82.5°	1282.5	1327.1	1251.8	1307.6	1221.2	1265.8	1329.9	1232.3	1221.2	1131.9	1051.1
85°	660.8	669.1	666.3	652.4	574.3	529.7	510.2	429.4	387.5	379.2	351.3
87.5°	429.4	434.9	421.0	418.2	368.0	337.3	301.1	253.7	211.9	147.8	122.7
90°	262.1	262.1	248.1	234.2	209.1	186.8	150.6	108.7	64.1	25.1	13.9
92.5°	175.6	175.6	170.1	161.7	145.0	125.5	97.6	64.1	30.7	11.2	5.6
95°	111.5	111.5	108.7	105.9	94.8	80.9	61.3	39.0	19.5	8.4	2.8
97.5°	72.5	72.5	72.5	69.7	64.1	55.8	41.8	25.1	13.9	5.6	2.8
100°	44.6	47.4	44.6	44.6	41.8	36.2	27.9	16.7	11.2	5.6	2.8
102.5°	25.1	25.1	27.9	27.9	25.1	22.3	16.7	13.9	8.4	5.6	2.8
105°	11.2	11.2	13.9	13.9	13.9	11.2	11.2	8.4	5.6	5.6	2.8
107.5°	2.8	2.8	2.8	5.6	8.4	8.4	8.4	8.4	5.6	2.8	2.8
110°	0.0	0.0	0.0	2.8	2.8	5.6	5.6	5.6	5.6	2.8	2.8



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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°	6563.0	6563.0	6563.0	6563.0	6563.0	6563.0	6563.0	6563.0	6563.0	6563.0
2.5°	6588.1	6554.6	6579.7	6537.9	6526.7	6490.5	6560.2	6571.4	6565.8	6576.9
5°	6593.7	6551.8	6582.5	6540.7	6537.9	6498.9	6571.4	6574.1	6554.6	6563.0
7.5°	6610.4	6571.4	6593.7	6546.3	6551.8	6504.4	6588.1	6585.3	6574.1	6593.7
10°	6671.7	6627.1	6635.5	6585.3	6599.2	6549.0	6652.2	6657.8	6646.6	6682.9
12.5°	6777.7	6716.3	6735.8	6677.3	6688.4	6638.3	6763.7	6772.1	6772.1	6830.6
15°	6922.6	6858.5	6900.3	6825.1	6827.8	6752.6	6847.4	6847.4	6858.5	6939.4
17.5°	7134.5	7056.5	7112.2	7042.5	6607.6	6443.1	6766.5	6964.5	6635.5	6607.6
20°	7396.6	7360.4	7391.0	7276.7	6571.4	5818.6	5233.1	5202.4	5852.0	6175.5
22.5°	7717.2	7681.0	7694.9	7549.9	5866.0	5336.3	5327.9	5272.1	4460.8	4237.8
25°	8093.6	8074.1	8043.4	6827.8	6063.9	5556.5	5489.6	4761.9	4296.3	4338.2
27.5°	8497.9	8439.3	7405.0	7092.7	6367.8	5776.8	5397.6	4446.9	4430.2	4469.2
30°	8949.5	8640.1	7580.6	7474.7	6721.9	6050.0	4697.8	4642.0	4642.0	4703.4
32.5°	9523.9	8068.5	8068.5	8012.8	7159.6	5311.2	4945.9	4912.5	4951.5	4976.6
35°	9437.4	8679.1	8768.3	8743.2	7753.5	5408.7	5344.6	5288.9	5297.2	5297.2
37.5°	9465.3	9496.0	9601.9	9493.2	6763.7	5832.5	5729.4	5718.2	5726.6	5746.1
40°	10340.7	10357.5	10396.5	10156.7	7268.4	6326.0	6183.8	6155.9	6183.8	6225.6
42.5°	11283.1	11330.5	11375.1	9236.7	7973.7	6886.4	6744.2	6691.2	6741.4	6786.0
45°	12398.3	12470.8	11787.7	10053.6	8771.1	7524.9	7374.3	7310.2	7340.8	7379.9
47.5°	13652.9	13767.2	11115.8	11093.5	9707.9	8280.4	8107.5	7984.9	8032.3	8029.5
50°	15069.2	13156.6	12281.2	12267.3	10753.4	9122.4	8944.0	8832.4	8868.7	8840.8
52.5°	16599.8	13516.3	13544.2	13541.4	11846.3	10028.5	9864.0	9724.6	9437.4	9702.3
55°	18166.7	14759.7	14865.7	14849.0	12992.1	10965.3	10789.6	10658.6	6964.5	5882.7
57.5°	19725.2	16059.0	16092.4	16131.5	14179.8	11868.6	11096.3	10193.0	3972.9	3953.4
60°	21264.2	17296.8	17363.8	17386.1	14821.1	9825.0	4536.1	4619.7	1201.6	1435.8
62.5°	22858.9	18518.0	18579.3	18559.8	15459.5	9136.3	4764.7	4669.9	111.5	103.2
65°	24894.2	20048.6	19962.2	19898.1	16466.0	9749.7	5118.8	5093.7	36.2	25.1
67.5°	25607.9	20397.1	20221.5	20199.2	16611.0	9880.7	5146.7	5127.2	36.2	25.1
70°	23990.9	19072.8	18771.7	18780.1	15456.8	9242.3	4801.0	4773.1	33.5	25.1
72.5°	21010.5	16845.2	16719.7	16056.2	13385.3	8129.9	4257.3	4151.4	33.5	22.3
75°	17249.4	13608.3	13329.5	12585.1	10653.0	6462.6	3342.8	3206.2	30.7	19.5
77.5°	11974.5	9543.4	9010.9	8252.5	7126.2	4285.2	2247.1	2071.5	27.9	19.5
80°	5428.3	3917.2	3936.7	3016.6	2417.2	1452.6	713.7	646.8	25.1	16.7
82.5°	945.1	697.0	655.2	632.9	526.9	356.9	217.5	186.8	22.3	11.2
85°	329.0	264.9	292.7	345.7	306.7	214.7	133.8	128.2	13.9	5.6
87.5°	111.5	117.1	136.6	164.5	145.0	83.6	50.2	36.2	2.8	0.0
90°	11.2	13.9	13.9	13.9	8.4	0.0	0.0	0.0	0.0	0.0
92.5°	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	2.8	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	2.8	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	2.8	2.8	2.8	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)