

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: P579394

Luminaire Tested: **CTN-CA10-760-722-U-T5-HSS-HM-EX120**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579394
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-CA10-760-722-U-T5-HSS-HM-EX120
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (10) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63828 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U3 - G5

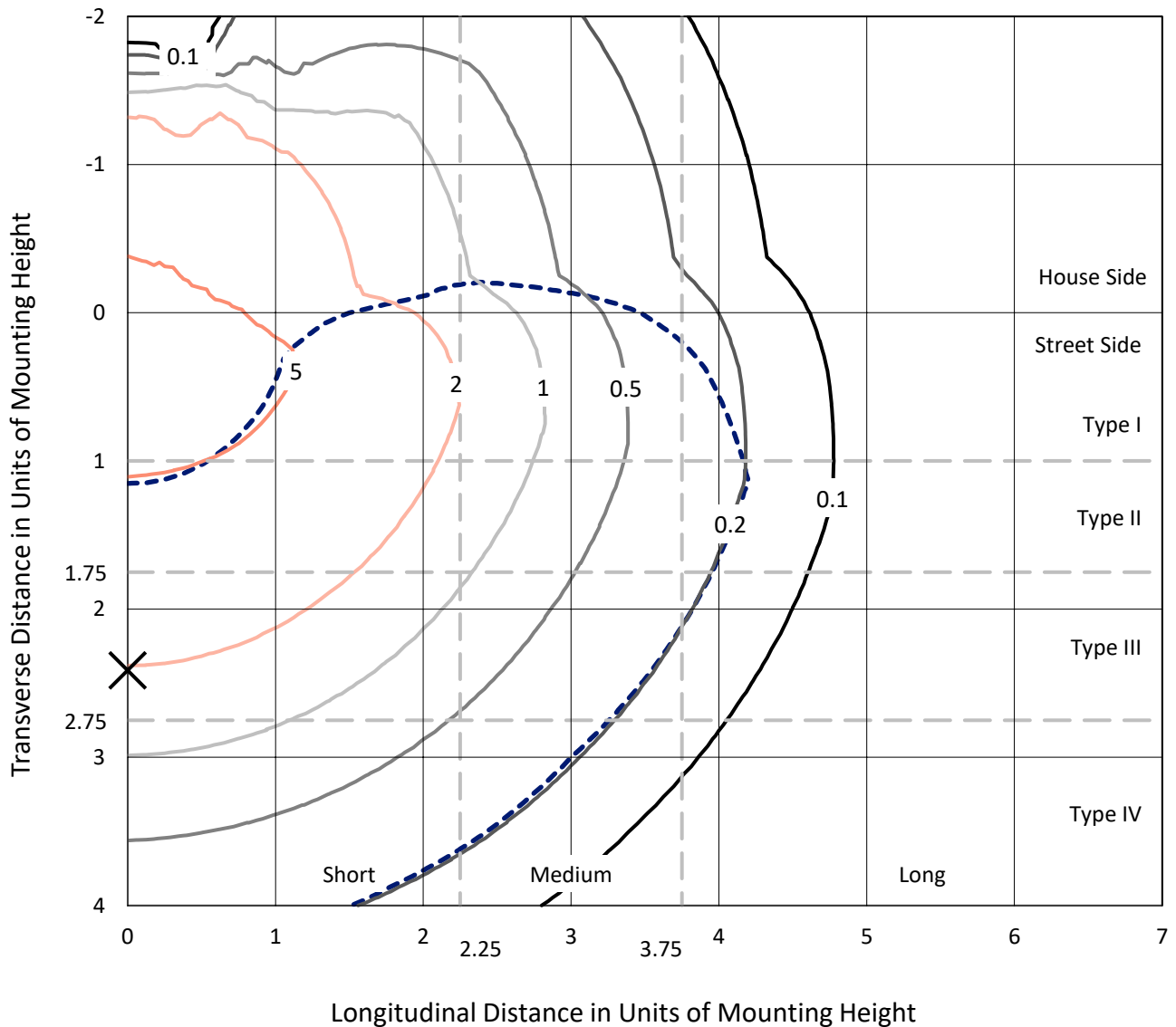
Input Watts (W): 761.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

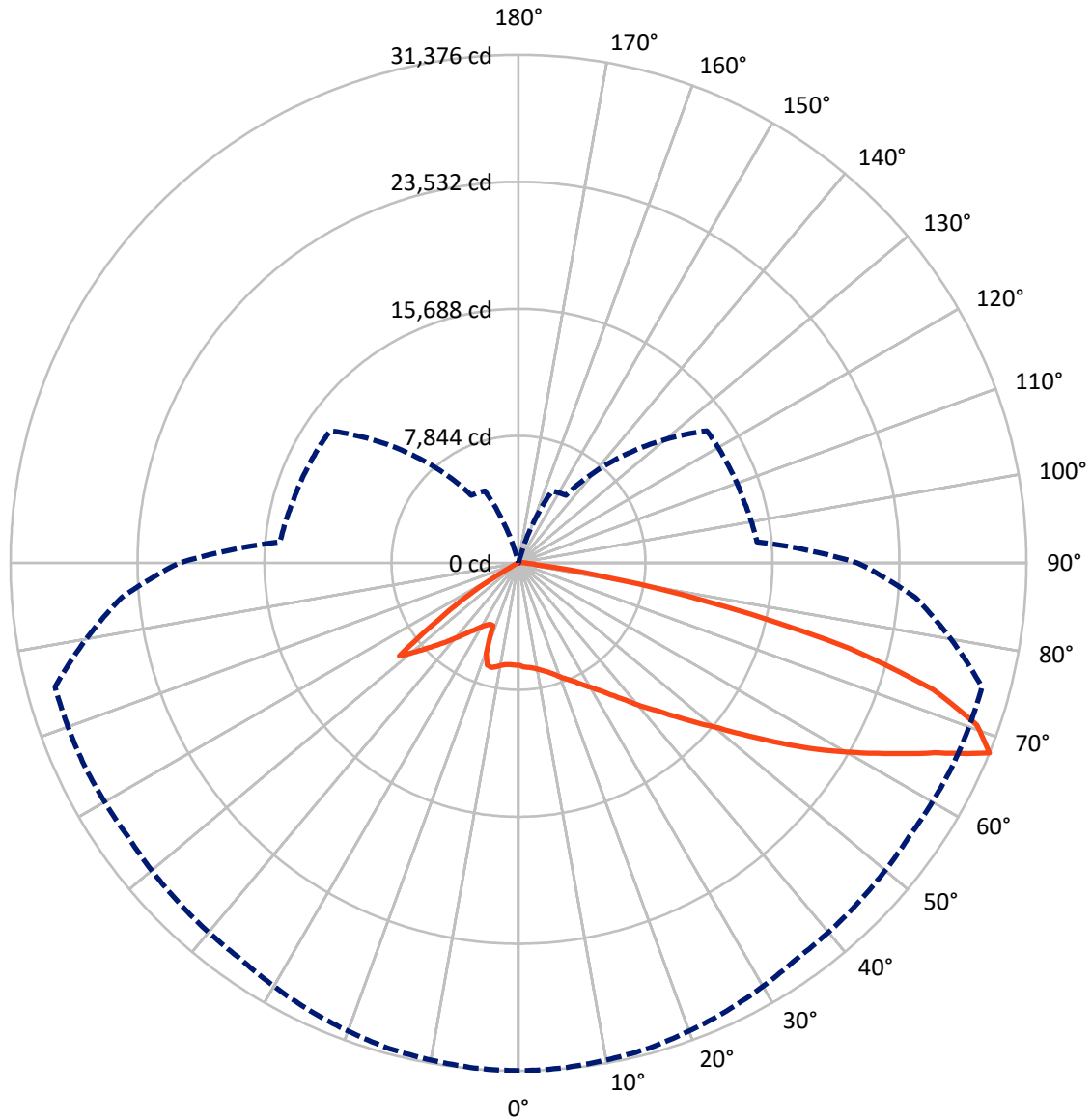
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 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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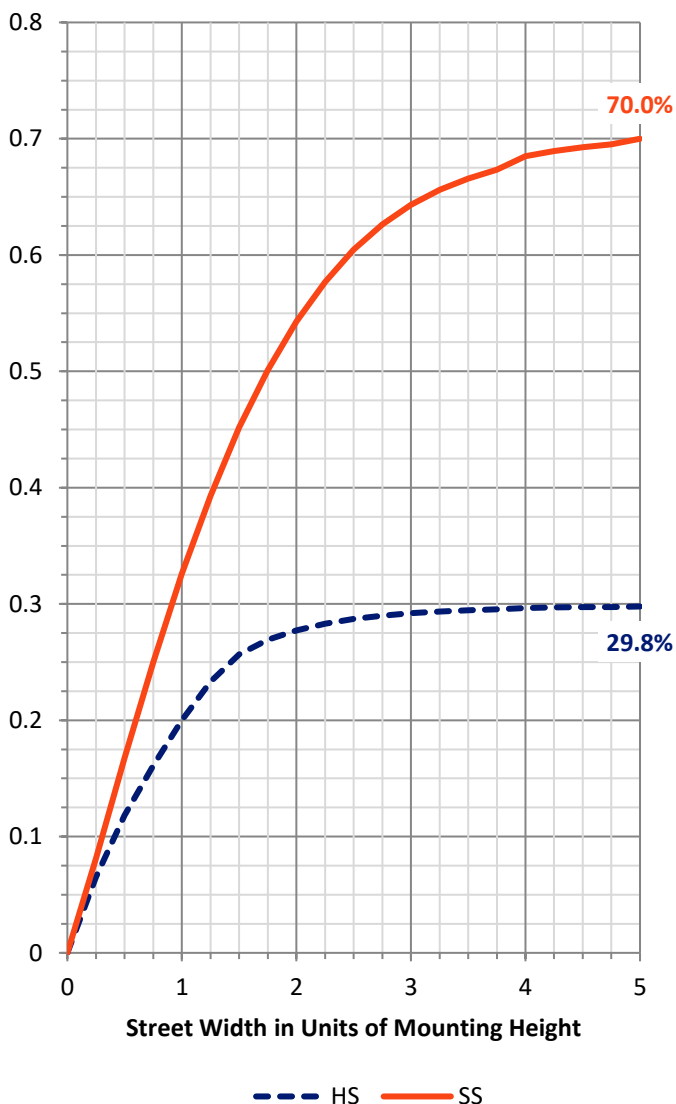
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19053.0	6.4	19059.4
	% Fixture	29.9	0.0	29.9
Street Side	Lumens	44696.7	71.9	44768.6
	% Fixture	70.0	0.1	70.1
Total	Lumens	63749.7	78.3	63828.0
	% Fixture	99.9	0.1	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.7	1.0
10°-20°	1887.7	3.0
20°-30°	3167.9	5.0
30°-40°	5136.9	8.0
40°-50°	8394.1	13.2
50°-60°	13155.2	20.6
60°-70°	17618.8	27.6
70°-80°	12841.7	20.1
80°-90°	937.8	1.5
90°-100°	60.0	0.1
100°-110°	17.1	0.0
110°-120°	1.2	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°	63749.7	99.9
0°-180°	63828.0	100.0

Coefficient of Utilization

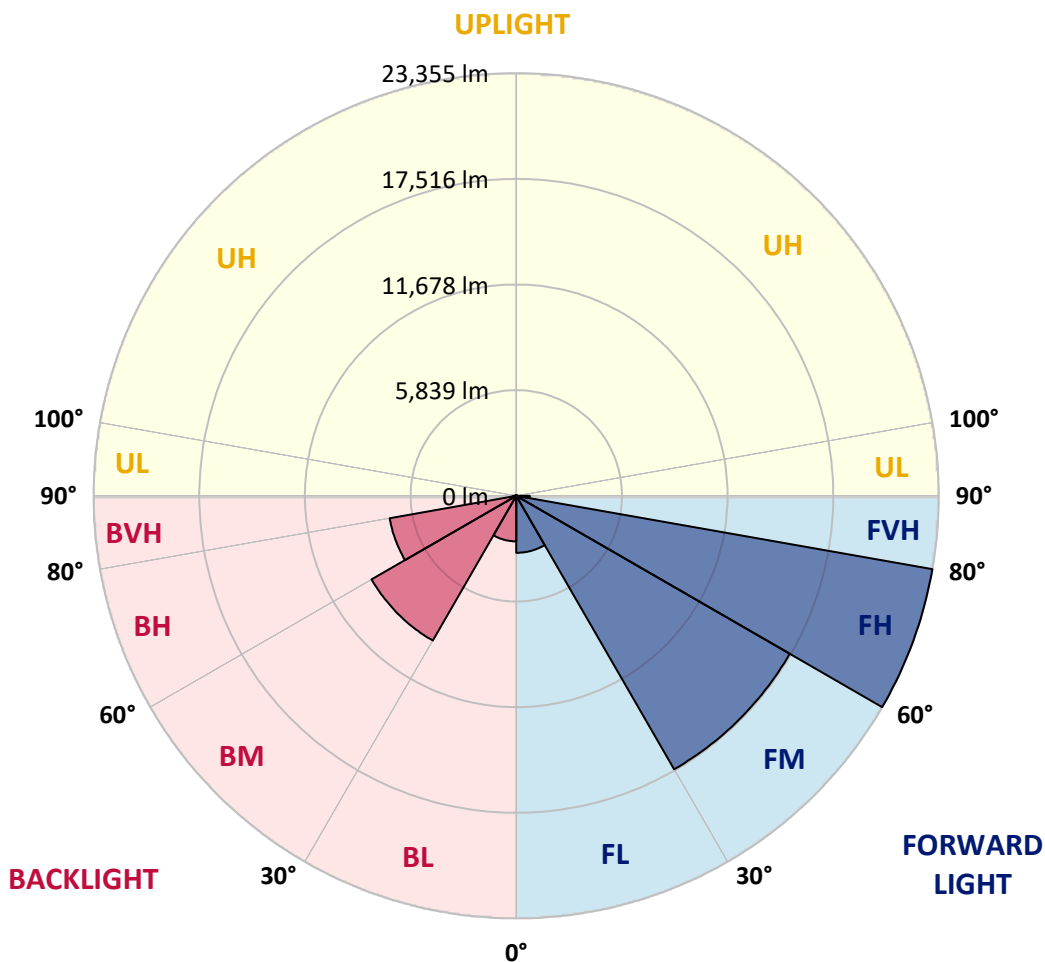


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3148.3	4.9			
FM (30°-60°)	17451.7	27.3			
FH (60°-80°)	23355.1	36.6			G5
FVH (80°-90°)	741.6	1.2			G4/750
BL (0°-30°)	2516.9	3.9	B4/5000		
BM (30°-60°)	9234.5	14.5	B5		
BH (60°-80°)	7105.4	11.1	B5		G5
BVH (80°-90°)	196.2	0.3			G2/225
UL (90°-100°)	60.0	0.1		U3/500	
UH (100°-180°)	18.3	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°	6324.6	6324.6	6324.6	6324.6	6324.6	6324.6	6324.6	6324.6	6324.6	6324.6	6324.6
2.5°	6445.4	6407.8	6410.5	6445.4	6340.7	6375.6	6330.0	6364.9	6340.7	6348.8	6364.9
5°	6485.6	6445.4	6448.1	6491.0	6397.1	6426.6	6364.9	6383.7	6362.2	6372.9	6372.9
7.5°	6566.1	6520.5	6517.8	6544.7	6448.1	6458.8	6402.4	6405.1	6372.9	6394.4	6383.7
10°	6686.9	6649.3	6622.5	6638.6	6552.7	6547.3	6474.9	6477.6	6437.3	6461.5	6442.7
12.5°	6834.5	6783.5	6778.1	6783.5	6689.6	6668.1	6593.0	6598.3	6525.9	6563.4	6542.0
15°	7022.3	6941.8	6941.8	6971.3	6850.6	6834.5	6743.2	6748.6	6673.5	6703.0	6681.5
17.5°	7253.1	7175.2	7161.8	7183.3	7078.6	7057.2	6963.3	6957.9	6874.7	6882.8	6864.0
20°	7550.9	7473.1	7440.9	7494.6	7363.1	7347.0	7234.3	7223.5	7135.0	7110.8	7100.1
22.5°	7827.3	7765.6	7749.5	7808.5	7671.7	7658.2	7550.9	7537.5	7454.3	7419.4	7207.4
25°	8138.6	8125.1	8119.8	8138.6	8009.8	7982.9	7899.7	7881.0	7811.2	7768.3	7510.7
27.5°	8541.1	8535.7	8519.6	8522.3	8404.2	8380.1	8302.2	8288.8	8216.4	8168.1	7838.0
30°	8962.3	8962.3	8927.5	8946.2	8887.2	8849.6	8787.9	8739.6	8694.0	8643.0	8227.1
32.5°	9448.0	9445.3	9413.1	9469.5	9426.6	9426.6	9389.0	9338.0	9257.5	9233.4	8728.9
35°	10073.2	10033.0	10019.6	10110.8	10097.4	10121.5	10108.1	10054.5	9987.4	9931.0	9319.2
37.5°	10765.5	10754.8	10795.1	10851.4	10880.9	10945.3	10905.1	10902.4	10891.7	10749.4	9160.9
40°	11618.9	11573.2	11629.6	11659.1	11637.6	11742.3	11707.4	11736.9	11817.4	10674.3	9150.2
42.5°	12469.5	12429.2	12469.5	12614.4	12582.2	12708.3	12692.2	12807.6	12853.2	10832.6	9893.5
45°	13516.0	13470.4	13502.6	13674.3	13690.4	13843.3	13926.5	14036.5	14058.0	11857.7	10789.7
47.5°	14718.1	14643.0	14704.7	14785.2	15029.4	15174.3	15254.8	15388.9	15525.8	13092.0	11809.4
50°	16043.7	16038.3	16105.4	16244.9	16524.0	16668.9	16808.4	16948.0	17173.4	14468.6	12952.5
52.5°	17728.8	17693.9	17809.3	17940.8	18187.7	18410.4	18576.7	18721.6	18963.1	15861.2	14189.5
55°	19655.4	19534.7	19754.7	19977.4	20082.1	20345.1	20460.4	20581.2	20812.0	17326.3	14911.3
57.5°	21735.0	21705.5	21858.5	21939.0	22164.4	22328.1	22389.8	22521.3	22518.6	18850.4	16140.3
60°	23782.4	23750.2	23930.0	23978.3	24158.1	24305.7	24284.2	24402.3	24445.2	20280.7	17345.1
62.5°	25937.1	25883.5	26049.8	26060.6	25953.2	26192.1	26167.9	26267.2	26229.6	21678.7	18531.1
65°	28293.1	28333.4	28387.0	28167.0	27909.4	28116.0	28110.6	28298.5	28432.6	23632.2	20119.7
67.5°	31376.3	31325.3	31048.9	30517.6	29892.4	29683.1	29460.4	29597.2	29634.8	24603.5	20932.7
70°	30045.3	29932.6	29809.2	29267.2	28513.1	27981.8	27635.7	27780.6	27933.5	23251.1	19660.8
72.5°	26801.2	26522.1	25947.9	25470.2	25035.5	24517.7	24096.4	24348.6	24684.0	20624.1	17409.5
75°	21144.7	20884.4	20465.8	20141.1	19907.7	19902.3	19883.5	20079.4	20031.1	16746.7	14154.6
77.5°	13094.7	13639.4	14025.8	13749.4	13846.0	13647.5	14084.8	14342.4	14575.9	12005.3	10084.0
80°	6045.6	6185.1	6869.3	6692.2	6550.0	6509.8	6536.6	6984.7	7116.2	5388.1	4513.4
82.5°	1379.2	1322.9	1371.2	1271.9	1266.5	1207.5	1215.6	1215.6	1172.6	992.8	831.8
85°	697.7	713.8	719.1	689.6	609.1	547.4	507.2	429.3	370.3	316.6	268.3
87.5°	466.9	480.3	488.4	448.1	402.5	351.5	319.3	260.3	206.6	128.8	99.3
90°	319.3	316.6	308.6	287.1	257.6	220.0	177.1	123.4	72.5	26.8	18.8
92.5°	228.1	222.7	220.0	201.3	179.8	150.3	115.4	77.8	40.3	18.8	10.7
95°	150.3	147.6	147.6	136.9	120.8	99.3	77.8	51.0	29.5	16.1	10.7
97.5°	104.7	102.0	102.0	96.6	85.9	72.5	53.7	34.9	24.2	16.1	10.7
100°	72.5	72.5	72.5	67.1	61.7	51.0	40.3	26.8	21.5	16.1	10.7
102.5°	48.3	48.3	51.0	48.3	42.9	34.9	26.8	21.5	18.8	13.4	10.7
105°	32.2	32.2	32.2	32.2	29.5	24.2	21.5	18.8	16.1	13.4	10.7
107.5°	21.5	21.5	21.5	21.5	18.8	16.1	16.1	16.1	13.4	13.4	10.7
110°	13.4	13.4	13.4	16.1	13.4	13.4	13.4	13.4	13.4	10.7	10.7



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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°	6324.6	6324.6	6324.6	6324.6	6324.6	6324.6	6324.6	6324.6	6324.6	6324.6
2.5°	6351.5	6313.9	6332.7	6295.1	6279.0	6244.1	6311.2	6316.6	6311.2	6321.9
5°	6359.5	6316.6	6338.0	6295.1	6287.1	6246.8	6313.9	6313.9	6297.8	6305.8
7.5°	6378.3	6332.7	6348.8	6297.8	6297.8	6249.5	6330.0	6324.6	6311.2	6330.0
10°	6442.7	6389.0	6389.0	6340.7	6346.1	6295.1	6394.4	6394.4	6383.7	6415.9
12.5°	6542.0	6474.9	6477.6	6410.5	6421.2	6381.0	6501.7	6507.1	6507.1	6560.8
15°	6670.8	6568.8	6579.5	6507.1	6528.6	6480.3	6587.6	6582.2	6595.6	6673.5
17.5°	6829.1	6716.4	6622.5	6386.3	6246.8	6252.2	6571.5	6719.1	6547.3	6598.3
20°	6896.2	6348.8	6050.9	5965.1	5946.3	5648.4	5039.3	5133.2	5707.5	5957.0
22.5°	6445.4	6271.0	6241.4	6131.4	5318.4	5093.0	5130.5	5076.9	4513.4	4194.1
25°	6665.4	6550.0	6482.9	5514.3	5331.8	5291.5	5264.7	4754.9	4143.1	4172.6
27.5°	6976.7	6826.4	6021.4	5538.4	5573.3	5511.6	5355.9	4277.2	4258.5	4306.8
30°	7344.3	6965.9	5868.5	5822.8	5863.1	5782.6	4502.6	4459.7	4459.7	4508.0
32.5°	7795.1	6319.3	6228.0	6233.4	6206.6	5294.2	4738.8	4728.0	4760.2	4800.5
35°	7669.0	6740.5	6748.6	6794.2	6732.5	5178.8	5109.1	5068.8	5095.7	5111.8
37.5°	7422.1	7373.8	7373.8	7322.8	5747.7	5584.0	5508.9	5503.5	5500.8	5500.8
40°	8044.6	7999.0	7942.7	7854.1	6013.4	6056.3	5943.6	5930.2	5938.2	5967.7
42.5°	8753.0	8734.3	8728.9	6740.5	6566.1	6598.3	6477.6	6442.7	6442.7	6509.8
45°	9587.6	9563.4	8970.4	7204.8	7175.2	7212.8	7078.6	6995.5	7041.1	7089.4
47.5°	10545.5	10545.5	7942.7	7899.7	7899.7	7921.2	7787.0	7674.3	7720.0	7736.1
50°	11594.7	9955.2	8739.6	8699.4	8736.9	8726.2	8586.7	7540.2	8508.9	8516.9
52.5°	11887.2	9681.5	9614.4	9568.8	9614.4	9606.3	9461.4	6289.7	9203.8	9335.3
55°	10537.5	10545.5	10532.1	10465.0	10513.3	10494.5	10352.3	6866.7	6786.2	6048.2
57.5°	11393.5	11404.2	11398.8	11388.1	11431.0	8304.9	10722.6	6203.9	3788.9	3791.6
60°	12324.6	12270.9	12254.8	12230.7	10365.7	5887.2	4467.8	432.0	1481.2	1459.7
62.5°	13169.8	13151.0	13094.7	13081.3	8796.0	4636.8	4529.5	99.3	77.8	75.1
65°	14345.1	14178.8	14133.1	13990.9	9375.6	4937.3	4835.4	29.5	2.7	0.0
67.5°	14782.5	14444.4	14280.7	14205.6	9539.3	5093.0	4897.1	29.5	2.7	0.0
70°	13956.0	13537.4	13330.8	13247.6	8914.0	4760.2	4567.0	29.5	2.7	0.0
72.5°	12375.6	12067.0	11983.8	11718.1	7859.5	4178.0	4008.9	29.5	0.0	0.0
75°	10151.1	10038.4	9936.4	9654.6	6389.0	3319.3	3169.0	26.8	0.0	0.0
77.5°	7387.2	7220.9	7033.0	6727.1	4312.1	2168.1	2090.3	24.2	0.0	0.0
80°	3330.0	3193.2	3147.6	2669.9	1529.5	705.7	622.5	21.5	0.0	0.0
82.5°	646.7	582.3	552.8	531.3	343.5	190.5	166.4	16.1	0.0	0.0
85°	220.0	244.2	284.4	314.0	193.2	115.4	96.6	10.7	0.0	0.0
87.5°	85.9	115.4	139.5	144.9	72.5	48.3	26.8	5.4	0.0	0.0
90°	16.1	21.5	18.8	13.4	8.1	2.7	0.0	0.0	0.0	0.0
92.5°	8.1	10.7	8.1	8.1	5.4	2.7	0.0	0.0	0.0	0.0
95°	10.7	10.7	10.7	8.1	5.4	2.7	0.0	0.0	0.0	0.0
97.5°	10.7	10.7	10.7	8.1	5.4	2.7	0.0	0.0	0.0	0.0
100°	10.7	10.7	10.7	8.1	5.4	2.7	0.0	0.0	0.0	0.0
102.5°	10.7	10.7	10.7	8.1	5.4	2.7	0.0	0.0	0.0	0.0
105°	10.7	13.4	10.7	8.1	5.4	2.7	0.0	0.0	0.0	0.0
107.5°	10.7	13.4	10.7	8.1	5.4	2.7	0.0	0.0	0.0	0.0
110°	10.7	13.4	10.7	8.1	5.4	2.7	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)