

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: P579465

Luminaire Tested: **CTN-CA8-330-730-U-T5N-HSS-HM-EX90**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2110-429-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA8-330-730-U-T5N-HSS-HM-EX90
Description: CELESTEON HIGH MAST LUMINAIRE WITH FIELD INSTALLED SHIELD
Light Source: (8) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39627 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U2 - G4

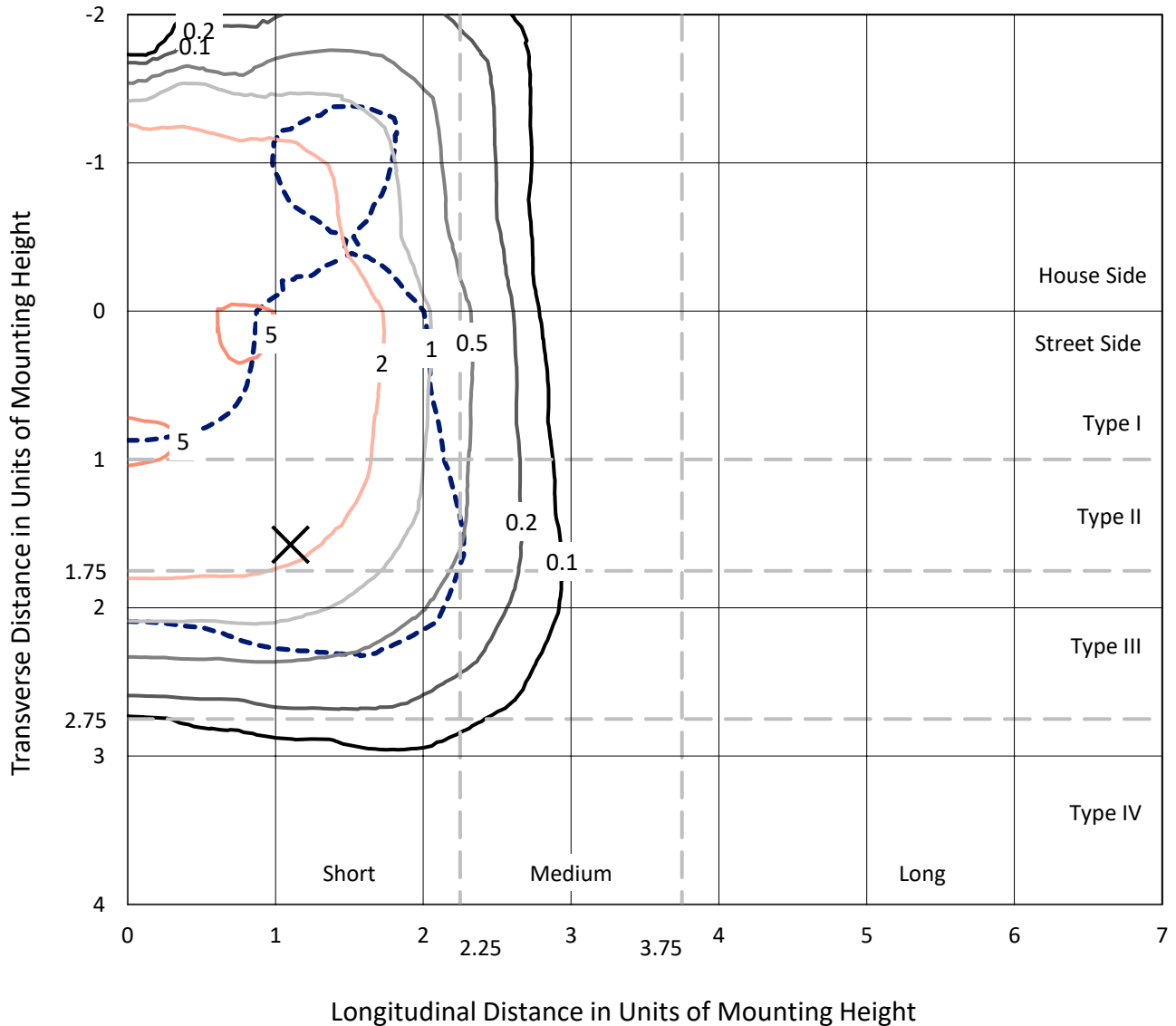
Input Watts (W): 331.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

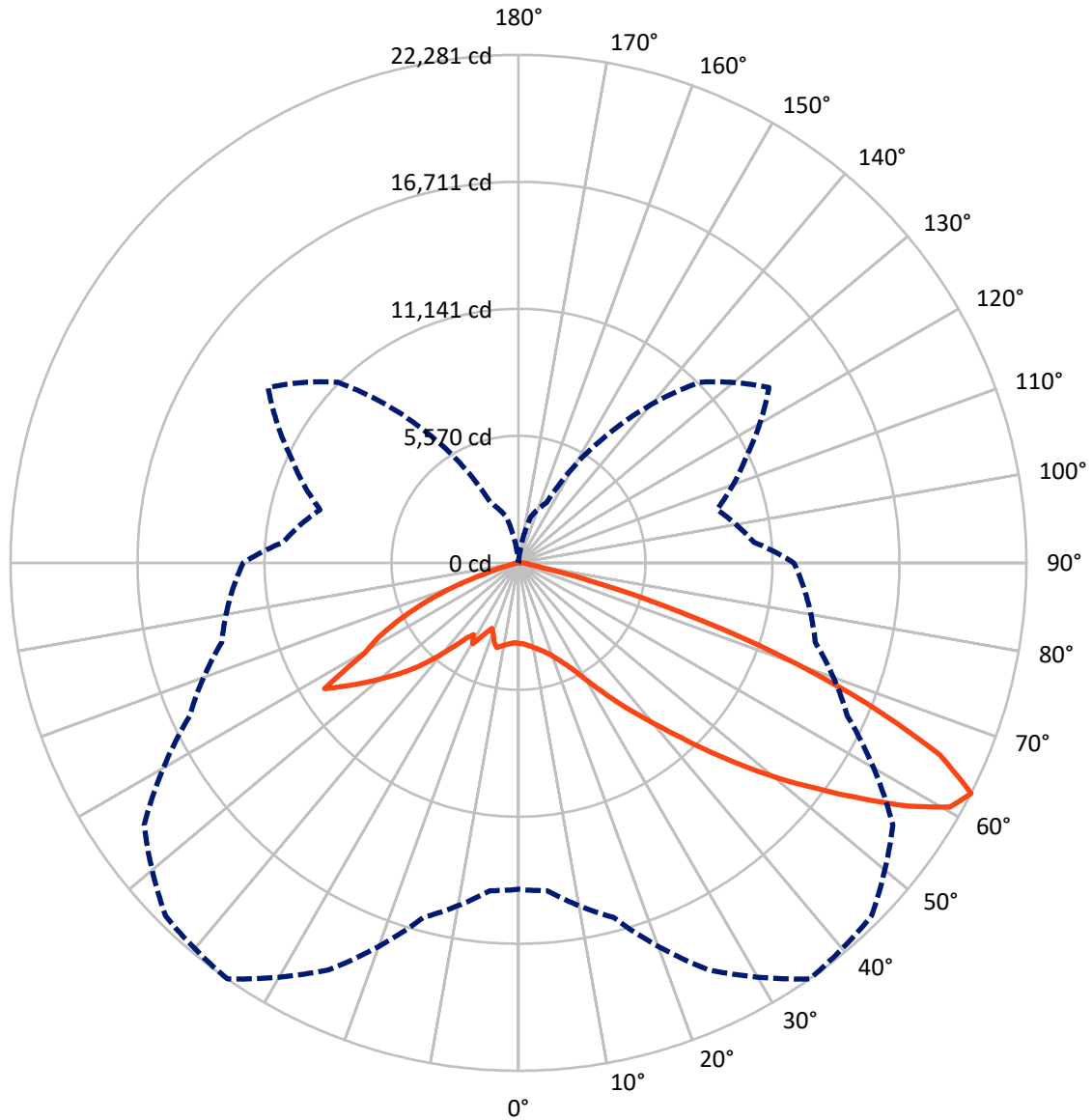
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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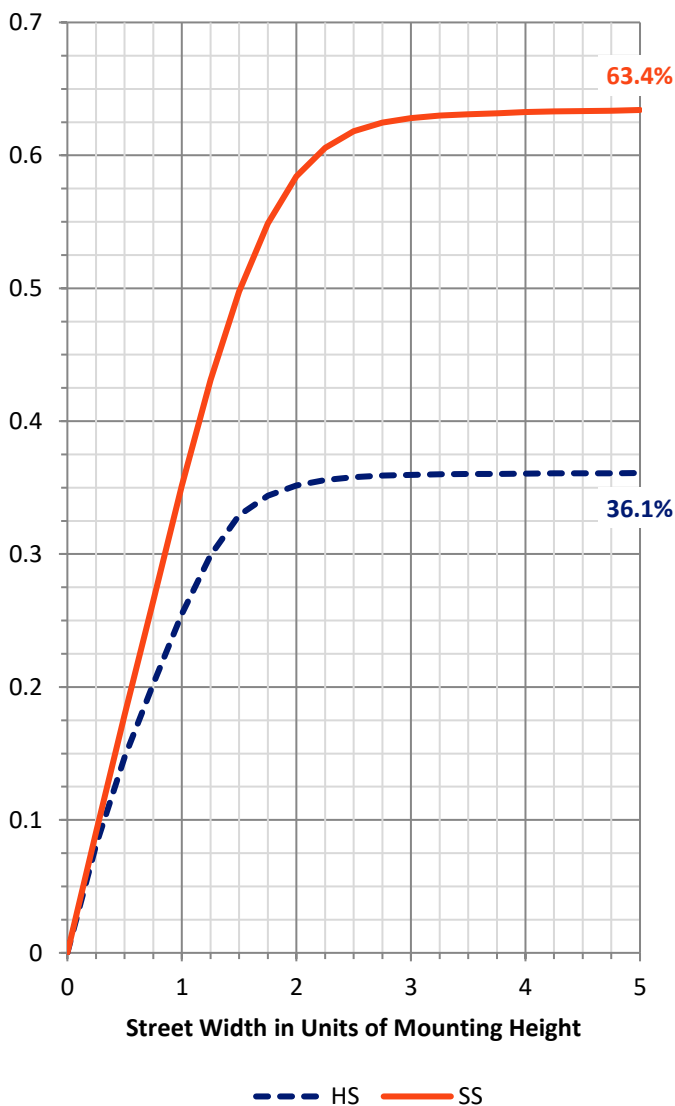
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14383.7	0.0	14383.7
	% Fixture	36.3	0.0	36.3
Street Side	Lumens	25224.5	18.8	25243.3
	% Fixture	63.7	0.0	63.7
Total	Lumens	39608.2	18.8	39627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.6	0.9
10°-20°	1126.6	2.8
20°-30°	2167.5	5.5
30°-40°	4323.8	10.9
40°-50°	7895.1	19.9
50°-60°	11798.0	29.8
60°-70°	9885.6	24.9
70°-80°	1850.0	4.7
80°-90°	213.0	0.5
90°-100°	16.9	0.0
100°-110°	1.8	0.0
110°-120°	0.0	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°	39608.2	100.0
0°-180°	39627.0	100.0

Coefficient of Utilization

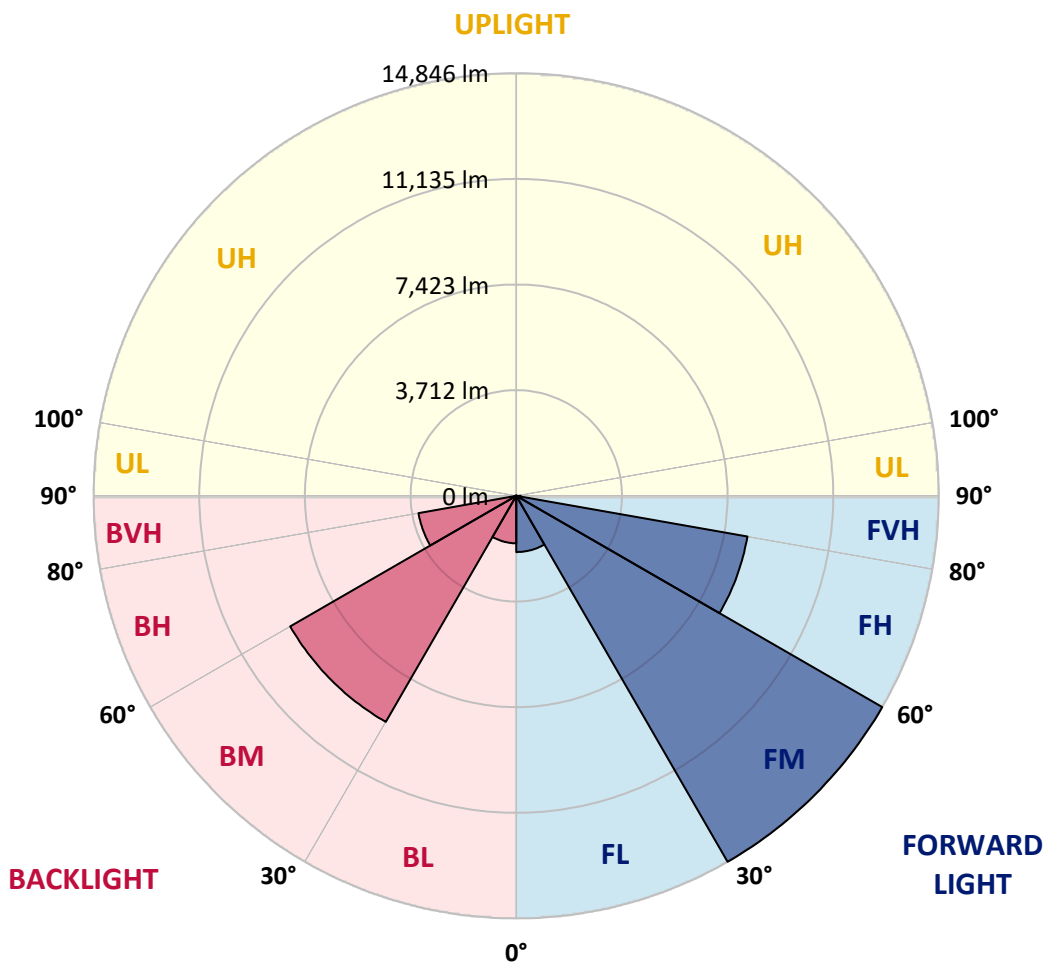


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1975.9	5.0			
FM	(30°-60°)	14846.1	37.5			
FH	(60°-80°)	8247.5	20.8			G4/12000
FVH	(80°-90°)	155.1	0.4			G2/225
BL	(0°-30°)	1666.8	4.2	B3/2500		
BM	(30°-60°)	9170.9	23.1	B5		
BH	(60°-80°)	3488.1	8.8	B4/5000		G4/5000
BVH	(80°-90°)	57.9	0.1			G1/100
UL	(90°-100°)	16.9	0.0		U2/50	
UH	(100°-180°)	1.9	0.0		U1/10	

BUG Rating: B5-U2-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3545.7	3545.7	3545.7	3545.7	3545.7	3545.7	3545.7	3545.7	3545.7	3545.7	3545.7
2.5°	3621.4	3591.7	3596.2	3617.0	3551.6	3578.4	3550.1	3576.9	3568.0	3579.9	3588.8
5°	3673.4	3636.3	3639.3	3663.0	3612.5	3634.8	3606.6	3624.4	3609.6	3625.9	3627.4
7.5°	3744.7	3713.5	3709.1	3732.8	3689.8	3709.1	3680.9	3689.8	3674.9	3694.2	3688.3
10°	3839.8	3811.6	3804.1	3820.5	3786.3	3796.7	3767.0	3778.9	3756.6	3778.9	3768.5
12.5°	3945.3	3908.1	3909.6	3927.4	3893.3	3900.7	3876.9	3890.3	3863.6	3887.3	3879.9
15°	4070.0	4016.6	4027.0	4046.3	4013.6	4035.9	4007.7	4027.0	4001.7	4027.0	4018.0
17.5°	4231.9	4171.0	4178.5	4209.7	4182.9	4218.6	4185.9	4209.7	4197.8	4214.1	4211.2
20°	4436.9	4396.8	4389.4	4428.0	4389.4	4434.0	4416.1	4457.7	4460.7	4477.0	4484.5
22.5°	4710.3	4683.5	4665.7	4692.4	4658.3	4689.5	4714.7	4786.0	4812.7	4855.8	4858.8
25°	5074.2	5072.7	5032.6	5034.1	4991.0	5032.6	5103.9	5215.3	5286.6	5341.6	5320.8
27.5°	5565.9	5574.8	5513.9	5490.1	5439.6	5502.0	5649.0	5787.2	5916.4	5993.7	5993.7
30°	6207.5	6216.5	6127.3	6079.8	6033.8	6142.2	6317.5	6497.2	6681.4	6792.8	6767.6
32.5°	7057.2	7029.0	6901.2	6815.1	6736.4	6861.1	7063.1	7266.7	7517.7	7678.1	7658.8
35°	8088.1	7985.6	7857.8	7697.4	7528.1	7626.1	7816.3	8071.7	8420.8	8661.5	8600.6
37.5°	9285.3	9184.3	8966.0	8689.7	8394.1	8406.0	8556.0	8998.6	9435.4	9631.4	9589.8
40°	10528.6	10449.9	10249.4	9894.4	9359.6	9236.3	9482.9	10016.2	10433.6	10680.1	10610.3
42.5°	11795.7	11715.5	11564.0	11207.5	10498.9	10201.8	10458.8	11039.6	11485.2	11727.4	11647.1
45°	13059.8	12967.7	12847.4	12532.4	11856.6	11421.4	11565.4	12098.7	12505.7	12780.5	12615.6
47.5°	14170.9	14110.0	14028.3	13900.5	13309.3	12828.0	12817.6	13169.7	13450.4	13631.7	13429.6
50°	15137.9	15094.8	15140.8	15114.1	14898.7	14460.5	14191.7	14167.9	14258.5	14390.7	14102.5
52.5°	16005.3	15929.6	16100.4	16312.8	16471.8	16382.6	15512.2	15023.5	14924.0	14968.5	14641.7
55°	16715.4	16679.7	16966.4	17499.7	18235.0	18431.0	16868.4	15855.3	15488.4	15464.7	15093.3
57.5°	17149.1	17199.6	17773.0	18789.0	20137.8	20200.2	18533.5	16745.1	16038.0	15782.5	15354.7
60°	16458.4	16653.0	17631.9	19727.8	21752.4	21791.0	19756.0	16908.5	15351.8	14779.9	14249.6
62.5°	14322.4	14438.2	16103.4	19696.6	22281.2	21903.9	20047.2	15922.2	13478.7	12566.6	12076.4
65°	10088.9	10305.8	12089.8	17721.0	20304.1	20351.7	18390.9	13766.8	10763.3	9754.7	9438.3
67.5°	6093.2	6301.1	8201.0	12792.4	16505.9	17039.2	15341.4	10423.2	7718.2	6443.7	6124.4
70°	1978.6	2204.4	3737.3	7540.0	12141.8	13420.7	11544.6	6783.9	4041.8	2831.2	2488.1
72.5°	751.6	819.9	1216.6	3293.2	7562.2	8960.0	7140.4	3403.1	1252.2	745.7	655.1
75°	488.7	499.1	568.9	1154.2	3646.7	4933.1	3441.7	996.7	502.1	445.6	412.9
77.5°	420.4	427.8	457.5	574.9	1161.6	1886.5	987.8	509.5	418.9	371.4	349.1
80°	396.6	399.6	418.9	487.2	543.7	629.8	475.3	426.3	365.4	349.1	332.7
82.5°	375.8	386.2	396.6	442.7	441.2	453.1	381.8	334.2	310.5	326.8	320.8
85°	350.6	356.5	363.9	395.1	359.5	304.5	294.1	230.2	224.3	239.2	224.3
87.5°	246.6	261.4	252.5	265.9	249.5	194.6	164.9	130.7	104.0	86.2	83.2
90°	101.0	102.5	96.6	89.1	78.7	65.4	52.0	32.7	14.9	7.4	3.0
92.5°	78.7	78.7	75.8	68.3	59.4	49.0	37.1	20.8	10.4	4.5	1.5
95°	49.0	50.5	47.5	43.1	37.1	29.7	22.3	11.9	7.4	3.0	1.5
97.5°	31.2	31.2	28.2	25.3	20.8	14.9	10.4	8.9	5.9	3.0	0.0
100°	17.8	17.8	16.3	13.4	10.4	7.4	7.4	5.9	4.5	1.5	0.0
102.5°	10.4	10.4	7.4	5.9	4.5	4.5	4.5	4.5	3.0	1.5	0.0
105°	4.5	4.5	3.0	3.0	1.5	1.5	3.0	3.0	3.0	1.5	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.0	3.0	1.5	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	3.0	1.5	1.5



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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°	3545.7	3545.7	3545.7	3545.7	3545.7	3545.7	3545.7	3545.7	3545.7	3545.7
2.5°	3582.8	3556.1	3560.5	3535.3	3530.8	3505.6	3556.1	3562.0	3547.2	3560.5
5°	3624.4	3591.7	3602.1	3573.9	3569.5	3535.3	3579.9	3576.9	3565.0	3578.4
7.5°	3686.8	3652.6	3658.6	3627.4	3621.4	3584.3	3625.9	3612.5	3600.6	3617.0
10°	3774.4	3735.8	3738.8	3698.7	3703.1	3654.1	3704.6	3680.9	3666.0	3688.3
12.5°	3879.9	3836.8	3838.3	3796.7	3795.2	3747.7	3792.3	3778.9	3756.6	3790.8
15°	4016.6	3967.5	3963.1	3908.1	3893.3	3839.8	3881.4	3856.1	3841.3	3890.3
17.5°	4208.2	4153.2	4136.9	4070.0	3792.3	3631.8	3854.7	3930.4	3838.3	3823.5
20°	4463.7	4417.6	4380.5	4279.5	3813.1	3312.5	2942.6	2945.6	3334.8	3514.5
22.5°	4809.8	4754.8	4685.0	4540.9	3498.2	3103.0	3104.5	3100.1	2660.4	2474.7
25°	5283.6	5216.8	5074.2	4260.2	3713.5	3348.1	3339.2	2904.0	2661.9	2675.2
27.5°	5923.8	5787.2	4952.4	4615.2	4096.8	3666.0	3452.1	2923.3	2953.0	2973.8
30°	6737.8	6188.2	5352.0	5151.4	4557.3	4087.9	3192.2	3264.9	3324.4	3337.7
32.5°	7572.6	6206.1	5990.7	5778.3	5124.7	3719.5	3597.7	3735.8	3798.2	3805.6
35°	7565.2	6966.6	6688.8	6449.7	5650.5	3979.4	4056.7	4269.1	4428.0	4420.6
37.5°	8006.4	7805.9	7474.6	7171.6	5086.1	4483.0	4621.1	4861.8	5054.9	5048.9
40°	8928.8	8697.1	8346.5	7710.8	5631.2	5059.3	5252.4	5510.9	5647.5	5655.0
42.5°	9800.8	9609.2	9251.2	7204.3	6313.0	5753.0	5928.3	6102.1	6186.8	6213.5
45°	10668.3	10531.6	9340.3	7961.8	7137.4	6451.2	6567.0	6599.7	6688.8	6678.4
47.5°	11372.3	11220.8	8980.8	8912.5	8137.1	7113.7	7104.7	7061.7	7094.3	7101.8
50°	12015.5	10189.9	9702.7	9930.0	9185.8	7789.5	7620.2	7532.5	7488.0	7468.7
52.5°	12523.5	10192.9	10377.1	10981.7	10369.7	8523.3	8159.4	7912.8	6928.0	7698.9
55°	12955.8	10613.3	11015.8	12106.1	11390.2	9291.3	8646.6	8206.9	4624.1	3707.6
57.5°	13203.9	10932.7	11648.6	13159.3	12281.4	10145.4	7960.3	6883.4	2614.3	2611.4
60°	12245.8	10359.3	11630.8	13711.9	12024.4	7869.7	3241.2	2712.4	494.6	508.0
62.5°	10366.7	9012.0	11030.7	13408.8	11198.5	6923.5	2907.0	2088.5	16.3	13.4
65°	8031.6	7189.4	9288.3	11794.2	10188.5	5776.8	2167.2	1504.7	4.5	0.0
67.5°	5253.9	5066.8	6853.7	9780.0	8309.4	4475.6	1454.2	720.4	3.0	0.0
70°	2240.0	2595.0	4341.9	7091.4	6360.5	3079.3	701.1	259.9	1.5	0.0
72.5°	626.8	830.3	1932.5	4154.7	4000.2	1619.1	273.3	109.9	1.5	0.0
75°	371.4	319.4	554.1	1657.7	1947.4	568.9	126.3	84.7	1.5	0.0
77.5°	309.0	249.5	317.9	423.3	589.7	205.0	106.9	75.8	0.0	0.0
80°	289.7	221.3	274.8	295.6	291.1	170.8	105.5	75.8	0.0	0.0
82.5°	274.8	193.1	227.3	227.3	243.6	157.5	99.5	74.3	0.0	0.0
85°	206.5	135.2	151.5	196.1	175.3	111.4	72.8	59.4	0.0	0.0
87.5°	78.7	49.0	59.4	62.4	50.5	25.3	5.9	5.9	0.0	0.0
90°	1.5	0.0	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)