

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: P650860

Luminaire Tested: **GALN-SA4C-840-U-SLR-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-840-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16797.3 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

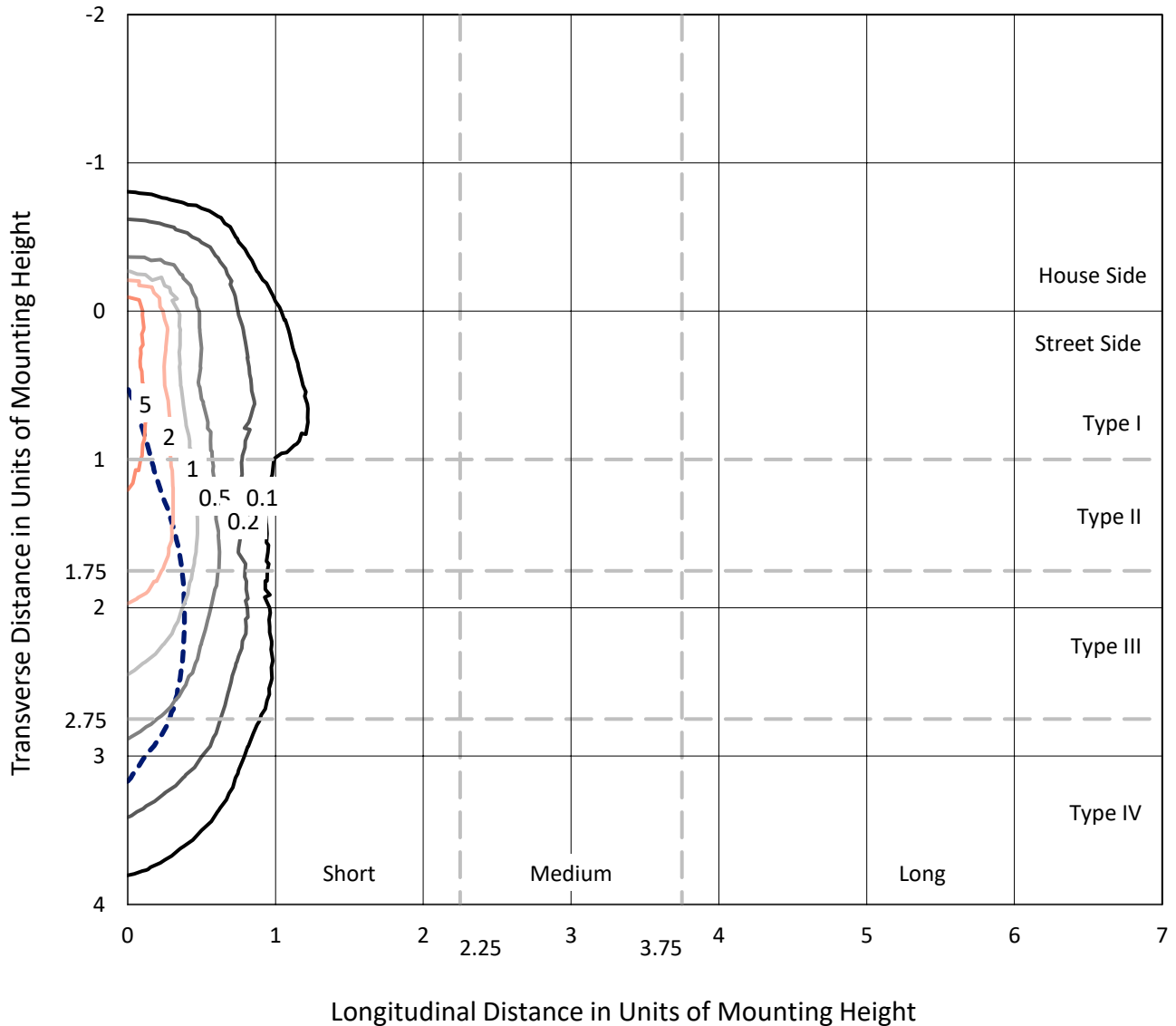
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

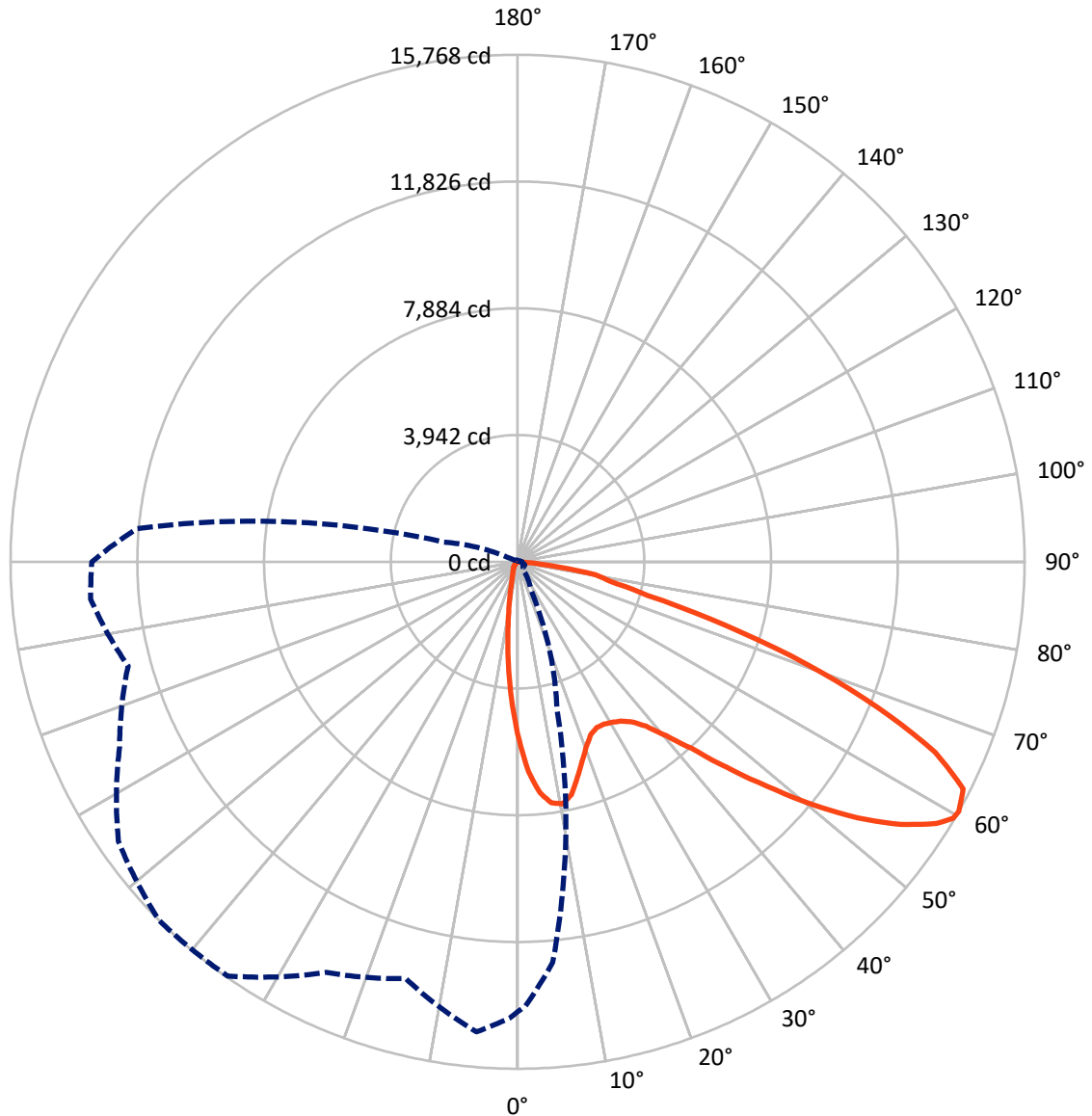
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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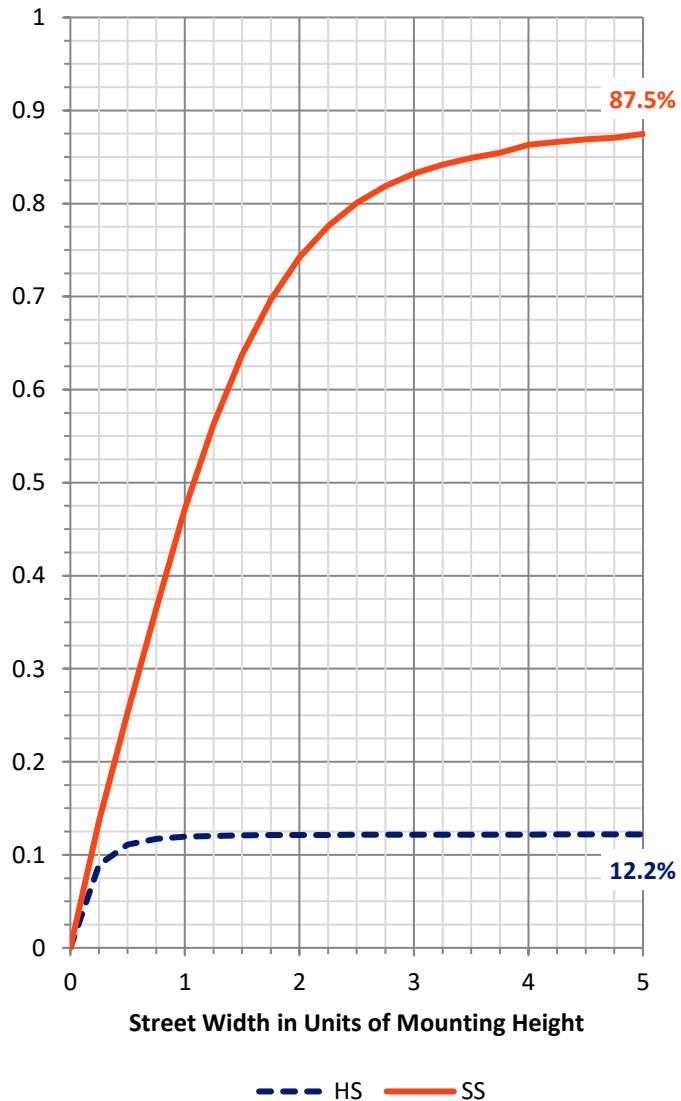
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2071.8	0.0	2071.8
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	14725.5	0.0	14725.5
	% Fixture	87.7	0.0	87.7
Total	Lumens	16797.3	0.0	16797.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.9	2.5
10°-20°	820.1	4.9
20°-30°	1202.4	7.2
30°-40°	1788.2	10.6
40°-50°	2602.4	15.5
50°-60°	3752.9	22.3
60°-70°	4127.8	24.6
70°-80°	1848.9	11.0
80°-90°	241.6	1.4
90°-100°	0.0	0.0
100°-110°	0.0	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°	16797.3	100.0
0°-180°	16797.3	100.0

Coefficient of Utilization



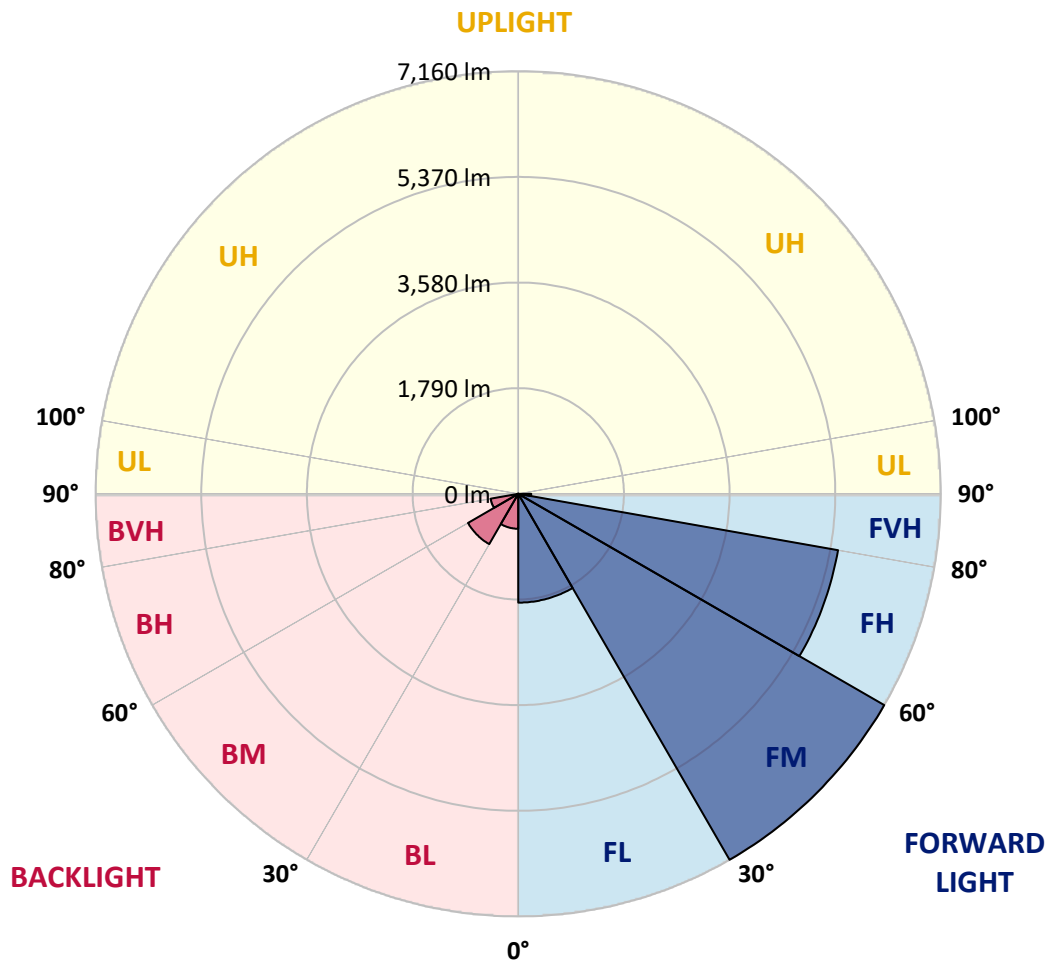
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1843.4	11.0			
FM	(30°-60°)	7159.5	42.6			
FH	(60°-80°)	5501.6	32.8			G3/7500
FVH	(80°-90°)	220.9	1.3			G2/225
BL	(0°-30°)	592.0	3.5	B2/1000		
BM	(30°-60°)	984.0	5.9	B1/1000		
BH	(60°-80°)	475.1	2.8	B1/500		G1/500
BVH	(80°-90°)	20.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5551.8	5551.8	5551.8	5551.8	5551.8	5551.8	5551.8	5551.8	5551.8	5551.8	5551.8
2.5°	6103.3	6076.6	6015.3	5828.8	5666.7	5454.7	5240.2	5071.7	4968.2	4778.0	4691.2
5°	5913.1	5925.9	5748.4	5365.3	4938.9	4647.7	4329.8	4077.0	3798.6	3622.4	3437.3
7.5°	5416.4	5390.9	5198.1	4664.4	4146.0	3724.5	3322.4	2995.5	2789.9	2625.2	2487.3
10°	4991.2	4972.1	4725.7	4038.7	3482.0	3166.6	2894.6	2608.6	2387.7	2146.4	1953.6
12.5°	4724.3	4680.9	4397.5	3679.9	3226.6	2932.9	2636.7	2339.2	2034.0	1790.2	1556.4
15°	4635.0	4572.4	4257.1	3556.0	3063.2	2690.4	2318.7	1976.6	1625.4	1356.0	1179.8
17.5°	4797.1	4693.7	4357.9	3534.3	2867.8	2373.6	1916.6	1470.9	1105.7	900.2	791.6
20°	5168.7	5050.0	4613.2	3512.6	2650.7	2018.7	1456.9	1039.4	764.8	652.4	592.5
22.5°	5720.3	5556.8	4991.2	3547.1	2450.3	1672.7	1052.1	734.2	607.8	537.6	495.4
25°	6382.9	6246.4	5470.0	3669.7	2292.0	1400.7	813.3	600.1	512.0	468.6	436.6
27.5°	7109.5	6891.2	6089.3	3816.5	2147.7	1190.0	713.8	536.3	455.8	416.3	399.6
30°	7626.6	7456.8	6607.7	3918.6	1967.6	1031.7	652.4	528.7	457.1	409.9	379.2
32.5°	8137.3	7920.3	7041.9	3965.9	1836.1	921.9	564.4	461.0	400.9	376.7	346.0
35°	8683.8	8456.6	7474.7	3940.3	1737.8	849.1	512.0	411.2	343.5	302.6	272.0
37.5°	9236.7	8996.7	7905.0	3848.4	1676.5	819.7	471.1	390.7	324.3	282.2	249.0
40°	9893.0	9572.5	8308.5	3773.1	1612.7	804.4	444.4	377.9	310.2	265.6	232.4
42.5°	10429.3	10124.1	8690.2	3733.5	1569.2	768.7	444.4	367.8	301.3	251.5	217.1
45°	10937.5	10620.8	9102.6	3765.4	1551.4	723.9	449.4	366.4	294.9	241.3	206.9
47.5°	11362.7	11088.2	9526.6	3885.4	1528.3	675.5	422.6	384.3	291.2	232.4	196.6
50°	11864.5	11598.9	10087.1	4128.0	1487.6	627.0	389.5	413.7	289.8	224.7	187.7
52.5°	12571.9	12284.6	10860.9	4403.9	1422.4	552.9	358.8	409.9	284.8	211.9	178.8
55°	13436.3	13203.9	11757.3	4734.6	1333.1	469.9	310.2	363.9	269.5	190.2	163.4
57.5°	13990.5	13792.6	12428.9	4877.5	1196.4	384.3	273.2	305.2	246.4	169.8	145.6
59°	14055.5	13876.8	12569.3	4830.3	1107.0	351.1	255.4	261.7	240.0	158.4	135.3
60°	14000.6	13815.5	12513.2	4738.4	1024.0	328.2	240.0	232.4	241.3	152.0	127.7
62.5°	13648.3	13331.6	11967.9	4272.4	895.1	301.3	213.2	190.2	213.2	136.7	113.6
65°	12967.7	12492.7	10889.0	3616.0	844.0	286.0	181.3	159.6	162.1	120.0	98.3
67.5°	11779.0	11180.1	9452.5	2938.0	822.3	287.3	153.2	143.0	125.1	102.2	86.8
70°	9899.4	9301.9	7584.5	2417.1	812.1	287.3	130.3	122.6	104.7	85.5	75.4
72.5°	7015.0	6371.5	5116.3	1898.6	731.7	286.0	111.1	111.1	85.5	71.5	61.3
75°	3963.4	3968.4	3216.4	1343.2	607.8	236.2	89.4	88.1	62.6	54.9	46.0
77.5°	2309.8	2268.9	2168.1	577.2	282.2	107.2	62.6	53.7	43.4	39.6	33.2
80°	1187.5	976.8	951.3	209.4	100.8	67.7	43.4	30.6	28.1	25.6	23.0
82.5°	351.1	352.4	314.1	84.3	56.2	44.7	21.7	16.6	15.3	14.0	14.0
85°	24.2	15.3	17.9	25.6	34.5	17.9	1.3	3.9	3.9	5.1	6.4
87.5°	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5551.8	5551.8	5551.8	5551.8	5551.8	5551.8	5551.8	5551.8	5551.8	5551.8	5551.8
2.5°	4595.4	4651.6	4546.9	4549.4	4462.6	4490.7	4388.5	4421.7	4361.8	4407.7	4543.0
5°	3457.7	3470.5	3386.2	3359.4	3372.2	3424.6	3444.9	3351.7	3391.3	3313.5	3308.3
7.5°	2436.2	2451.5	2403.1	2396.7	2488.6	2466.9	2506.4	2410.7	2320.1	2359.6	2286.8
10°	1892.3	1828.4	1728.8	1700.8	1682.9	1694.4	1694.4	1607.6	1594.8	1560.3	1612.7
12.5°	1494.0	1416.0	1321.5	1193.9	1161.9	1159.4	1112.1	1035.5	1011.3	981.9	1025.3
15°	1085.3	1053.4	974.2	902.7	830.0	815.9	739.3	676.8	593.7	582.2	578.4
17.5°	763.5	716.3	715.0	674.1	632.0	603.9	532.4	461.0	429.0	425.2	425.2
20°	572.0	555.4	528.7	523.5	510.7	478.8	414.9	376.7	361.4	362.6	367.8
22.5°	481.4	469.9	445.6	434.1	429.0	400.9	353.7	328.2	320.5	320.5	321.8
25°	430.3	420.1	393.3	375.4	369.0	348.6	311.6	292.4	286.0	286.0	286.0
27.5°	392.0	379.2	351.1	335.8	324.3	301.3	278.4	259.2	252.8	252.8	254.1
30°	365.2	351.1	325.6	305.2	287.3	266.8	247.7	231.1	223.5	222.2	223.5
32.5°	329.4	316.6	291.2	278.4	257.9	233.6	218.3	203.0	195.4	196.6	195.4
35°	256.7	252.8	235.0	238.8	227.2	206.9	192.8	176.2	167.3	166.0	168.5
37.5°	233.6	218.3	197.9	199.1	195.4	187.7	164.8	146.8	140.4	140.4	141.7
40°	215.8	200.5	177.5	166.0	167.3	167.3	143.0	123.9	117.5	116.2	118.7
42.5°	200.5	185.1	159.6	140.4	135.3	141.7	121.3	102.2	95.8	93.2	95.8
45°	190.2	173.7	144.3	122.6	107.2	114.9	99.6	84.3	76.6	76.6	75.4
47.5°	180.1	164.8	132.8	106.0	89.4	85.5	81.7	67.7	60.0	58.7	60.0
50°	171.1	155.8	120.0	91.9	75.4	66.4	66.4	53.7	48.5	46.0	47.3
52.5°	162.1	145.6	108.6	81.7	65.1	53.7	47.3	43.4	39.6	38.3	39.6
55°	149.4	132.8	97.1	70.2	56.2	44.7	37.0	35.7	33.2	30.6	33.2
57.5°	134.1	118.7	85.5	60.0	44.7	34.5	30.6	29.4	26.8	25.6	25.6
59°	125.1	111.1	79.1	52.3	39.6	30.6	28.1	26.8	24.2	21.7	23.0
60°	120.0	108.6	75.4	48.5	35.7	28.1	25.6	24.2	21.7	20.4	21.7
62.5°	106.0	97.1	66.4	39.6	28.1	20.4	17.9	19.2	17.9	16.6	17.9
65°	93.2	85.5	56.2	30.6	21.7	14.0	12.8	16.6	15.3	14.0	15.3
67.5°	83.0	74.1	47.3	23.0	15.3	7.7	8.9	14.0	14.0	12.8	14.0
70°	71.5	63.8	38.3	16.6	7.7	3.9	6.4	10.2	12.8	11.5	12.8
72.5°	58.7	49.8	29.4	11.5	3.9	0.0	3.9	8.9	12.8	11.5	12.8
75°	46.0	37.0	21.7	6.4	0.0	0.0	1.3	7.7	12.8	11.5	12.8
77.5°	33.2	26.8	12.8	1.3	0.0	0.0	1.3	7.7	12.8	11.5	12.8
80°	21.7	19.2	5.1	0.0	0.0	0.0	1.3	7.7	12.8	12.8	14.0
82.5°	14.0	10.2	0.0	0.0	0.0	0.0	2.5	10.2	14.0	15.3	15.3
85°	6.4	0.0	0.0	0.0	0.0	0.0	5.1	12.8	16.6	16.6	16.6
87.5°	0.0	0.0	0.0	0.0	0.0	2.5	8.9	15.3	19.2	19.2	19.2
90°	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5551.8	5551.8	5551.8	5551.8	5551.8	5551.8	5551.8	5551.8	5551.8	5551.8	5551.8
2.5°	4566.0	4646.4	4760.1	4935.0	5076.8	5300.2	5471.3	5705.0	5941.2	6012.7	6123.7
5°	3360.6	3464.1	3722.0	3957.0	4105.1	4577.5	4876.3	5347.4	5770.1	5973.1	6194.0
7.5°	2334.1	2456.6	2653.3	2981.4	3293.0	3677.4	4160.0	4698.8	5318.1	5608.0	5919.5
10°	1638.2	1791.4	2068.5	2337.9	2729.9	3095.0	3571.4	4166.4	4849.5	5191.7	5582.4
12.5°	1034.3	1170.8	1537.3	1839.9	2329.0	2752.9	3192.1	3730.9	4522.6	4873.8	5283.6
15°	591.2	706.1	877.2	1265.4	1808.0	2368.6	2916.3	3542.0	4355.4	4788.1	5231.3
17.5°	440.5	471.1	547.7	767.4	1261.5	1916.6	2662.3	3484.5	4469.0	4977.1	5482.8
20°	370.3	390.7	426.5	513.3	804.4	1476.0	2414.5	3494.8	4836.7	5475.2	5955.2
22.5°	331.9	344.7	374.1	430.3	549.0	1075.1	2124.7	3554.7	5282.3	6086.7	6640.9
25°	291.2	307.7	333.3	381.8	457.1	745.7	1838.7	3688.8	5906.7	6863.1	7384.1
27.5°	259.2	274.5	300.1	344.7	400.9	569.4	1505.4	3803.8	6565.6	7644.5	8071.0
30°	227.2	242.6	268.1	303.9	355.0	461.0	1146.6	3871.4	7205.3	8230.6	8558.7
32.5°	200.5	213.2	237.5	269.5	311.6	390.7	904.0	3801.2	7694.3	8763.1	8982.6
35°	173.7	189.0	209.4	238.8	275.8	333.3	752.1	3558.6	8114.4	9310.8	9389.9
37.5°	145.6	163.4	185.1	211.9	241.3	306.5	603.9	3290.4	8563.8	9993.9	9863.7
40°	122.6	139.2	159.6	189.0	215.8	280.9	464.7	3004.4	9049.1	10634.9	10380.8
42.5°	99.6	117.5	141.7	168.5	213.2	245.2	360.0	2708.2	9484.5	11192.9	10848.1
45°	79.1	94.5	120.0	154.5	211.9	210.7	278.4	2415.8	9812.6	11591.3	11196.7
47.5°	62.6	75.4	100.8	150.7	195.4	178.8	223.5	2234.5	10157.3	11950.0	11463.6
50°	49.8	62.6	86.8	157.0	171.1	153.2	187.7	2263.9	10490.6	12132.6	11573.3
52.5°	42.1	54.9	75.4	123.9	131.5	134.1	164.8	2399.2	10920.9	12328.0	11791.7
55°	37.0	48.5	63.8	86.8	102.2	120.0	150.7	2497.5	11496.7	12746.8	12273.0
57.5°	29.4	42.1	57.4	74.1	84.3	104.7	139.2	2505.2	12017.7	13284.4	12912.8
59°	26.8	38.3	53.7	70.2	75.4	94.5	131.5	2440.1	12036.9	13364.8	13206.5
60°	24.2	37.0	51.0	65.1	71.5	89.4	125.1	2364.7	11863.2	13237.1	13327.7
62.5°	20.4	32.0	44.7	52.3	61.3	74.1	108.6	2091.5	11021.8	12658.7	13103.0
65°	17.9	28.1	38.3	43.4	51.0	63.8	95.8	1673.9	10092.3	11874.7	12459.5
67.5°	16.6	25.6	33.2	37.0	44.7	58.7	85.5	1182.4	8888.2	10880.0	11492.9
70°	15.3	24.2	29.4	34.5	39.6	49.8	72.7	689.5	6846.5	9135.9	9783.3
72.5°	15.3	23.0	25.6	29.4	34.5	44.7	67.7	372.8	4680.9	6969.0	7805.4
75°	15.3	21.7	23.0	25.6	30.6	40.9	60.0	195.4	3026.2	4841.8	5975.6
77.5°	15.3	20.4	23.0	24.2	29.4	35.7	52.3	122.6	2016.1	3391.3	4038.7
80°	16.6	20.4	21.7	24.2	28.1	33.2	43.4	81.7	1184.9	2040.4	2457.9
82.5°	17.9	20.4	23.0	25.6	29.4	32.0	38.3	51.0	546.5	1349.6	1527.1
85°	19.2	21.7	24.2	26.8	30.6	32.0	35.7	37.0	89.4	609.1	823.6
87.5°	20.4	23.0	25.6	28.1	33.2	33.2	33.2	33.2	30.6	65.1	166.0
90°	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5551.8	5551.8	5551.8	5551.8	5551.8	5551.8	5551.8	5551.8	5551.8	5551.8
2.5°	6264.2	6408.5	6509.4	6534.9	6462.2	6428.9	6337.0	6194.0	6107.2	6103.3
5°	6601.3	6939.7	7174.7	7214.2	7073.7	6836.2	6554.1	6190.2	5976.9	5913.1
7.5°	6543.8	7136.3	7514.3	7569.2	7332.9	6879.6	6333.2	5747.1	5514.7	5416.4
10°	6307.7	7030.3	7570.4	7657.3	7341.9	6703.4	6008.9	5355.2	5066.5	4991.2
12.5°	6105.9	6836.2	7316.4	7436.4	7197.6	6560.5	5814.8	5103.6	4794.5	4724.3
15°	6017.8	6606.4	6900.1	6961.4	6921.8	6471.1	5794.3	5065.3	4711.6	4635.0
17.5°	6105.9	6411.0	6448.1	6510.7	6598.7	6462.2	5990.9	5273.4	4891.6	4797.1
20°	6337.0	6241.2	6088.0	6114.8	6316.6	6499.2	6340.8	5734.4	5269.5	5168.7
22.5°	6730.3	6199.1	5851.8	5828.8	6084.2	6623.0	6854.2	6358.7	5819.9	5720.3
25°	7212.9	6305.1	5765.0	5715.2	5993.6	6804.4	7412.2	7123.5	6534.9	6382.9
27.5°	7739.0	6524.7	5765.0	5716.4	5985.9	6965.2	7889.7	7800.3	7275.5	7109.5
30°	8027.6	6706.0	5848.0	5793.1	6080.3	7058.4	8145.0	8401.7	7832.2	7626.6
32.5°	8285.4	6957.6	6010.1	5906.7	6278.2	7196.4	8373.6	8912.4	8275.3	8137.3
35°	8522.9	7227.0	6233.6	6113.6	6538.8	7385.3	8626.4	9448.7	8892.0	8683.8
37.5°	8784.7	7539.8	6582.2	6480.0	6974.2	7753.0	8926.5	10153.5	9498.5	9236.7
40°	9069.4	7902.5	7155.5	7112.1	7666.2	8169.3	9305.7	10905.6	10190.6	9893.0
42.5°	9359.3	8319.9	7857.7	7929.2	8450.2	8752.8	9695.1	11484.0	10757.5	10429.3
45°	9622.4	8853.7	8770.7	9124.3	9364.5	9322.3	9983.7	11891.3	11251.6	10937.5
47.5°	9954.3	9631.3	9875.2	10420.4	10426.8	9941.5	10202.0	12224.5	11676.8	11362.7
50°	10325.9	10549.3	11301.4	11856.8	11707.5	10550.6	10457.4	12619.1	12116.0	11864.5
52.5°	10756.2	11577.2	12619.1	13235.8	12887.2	11214.6	10882.6	13045.6	12813.2	12571.9
55°	11256.7	12278.2	13933.0	14424.6	14073.5	12039.4	11528.7	13624.0	13601.0	13436.3
57.5°	11822.4	13018.8	14694.0	15359.3	15046.4	13007.2	12431.4	14169.2	14082.4	13990.5
59°	12269.3	13399.2	15029.8	15719.3	15530.3	13685.3	13037.9	14508.8	14193.5	14055.5
60°	12540.0	13657.2	15153.6	15767.8	15724.4	14088.8	13422.3	14674.9	14192.2	14000.6
62.5°	13343.1	14107.9	15106.4	15552.0	15721.8	14862.6	14549.7	14857.4	13929.1	13648.3
65°	13629.1	13958.5	14323.7	14268.8	14414.4	14823.0	15269.9	14656.9	13367.4	12967.7
67.5°	13072.4	12320.3	12449.3	12082.8	12011.3	13178.4	14977.5	13676.3	12268.0	11779.0
70°	11019.2	9438.5	9373.4	9541.9	9079.7	10669.3	13449.1	11787.9	10453.5	9899.4
72.5°	8673.7	6670.3	6121.2	6741.8	6727.7	8140.0	11172.4	8364.7	7062.3	7015.0
75°	6820.9	4643.9	4075.7	4176.6	4370.7	5892.6	8898.4	5311.7	4349.0	3963.4
77.5°	4578.8	3290.4	3069.6	2945.7	3155.1	3783.3	5629.7	2880.6	2438.8	2309.8
80°	2639.2	2390.3	2714.6	2464.3	2576.7	2383.9	2800.1	1321.5	1096.8	1187.5
82.5°	1717.3	1361.2	1450.5	1077.7	1473.5	1486.2	898.9	390.7	330.7	351.1
85°	1073.9	638.4	358.8	255.4	508.2	934.7	280.9	24.2	28.1	24.2
87.5°	278.4	106.0	44.7	66.4	81.7	72.7	65.1	3.9	1.3	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)