

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: P651954

Luminaire Tested: **GALN-SA6A-840-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651954
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-840-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12608.2 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

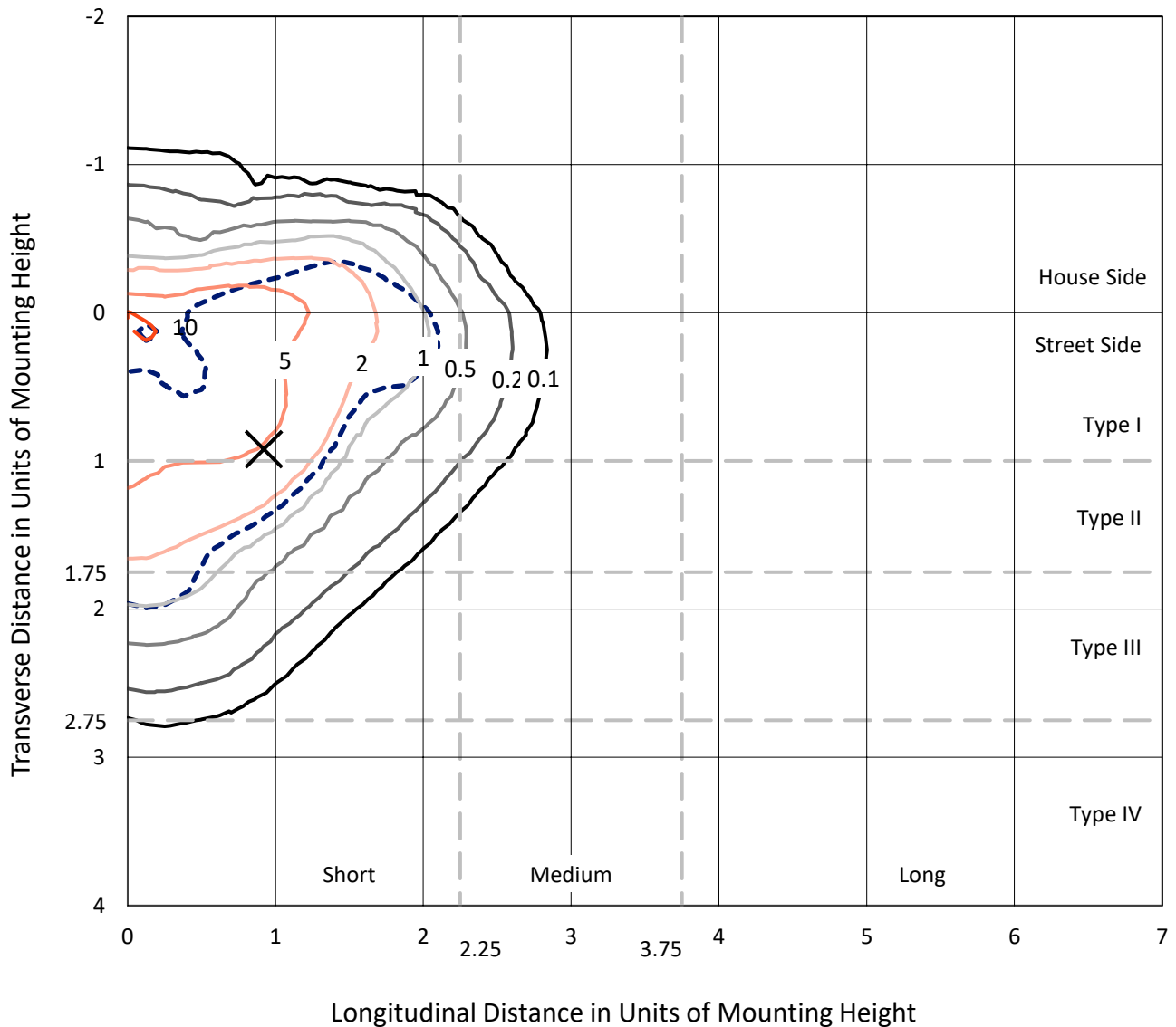
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

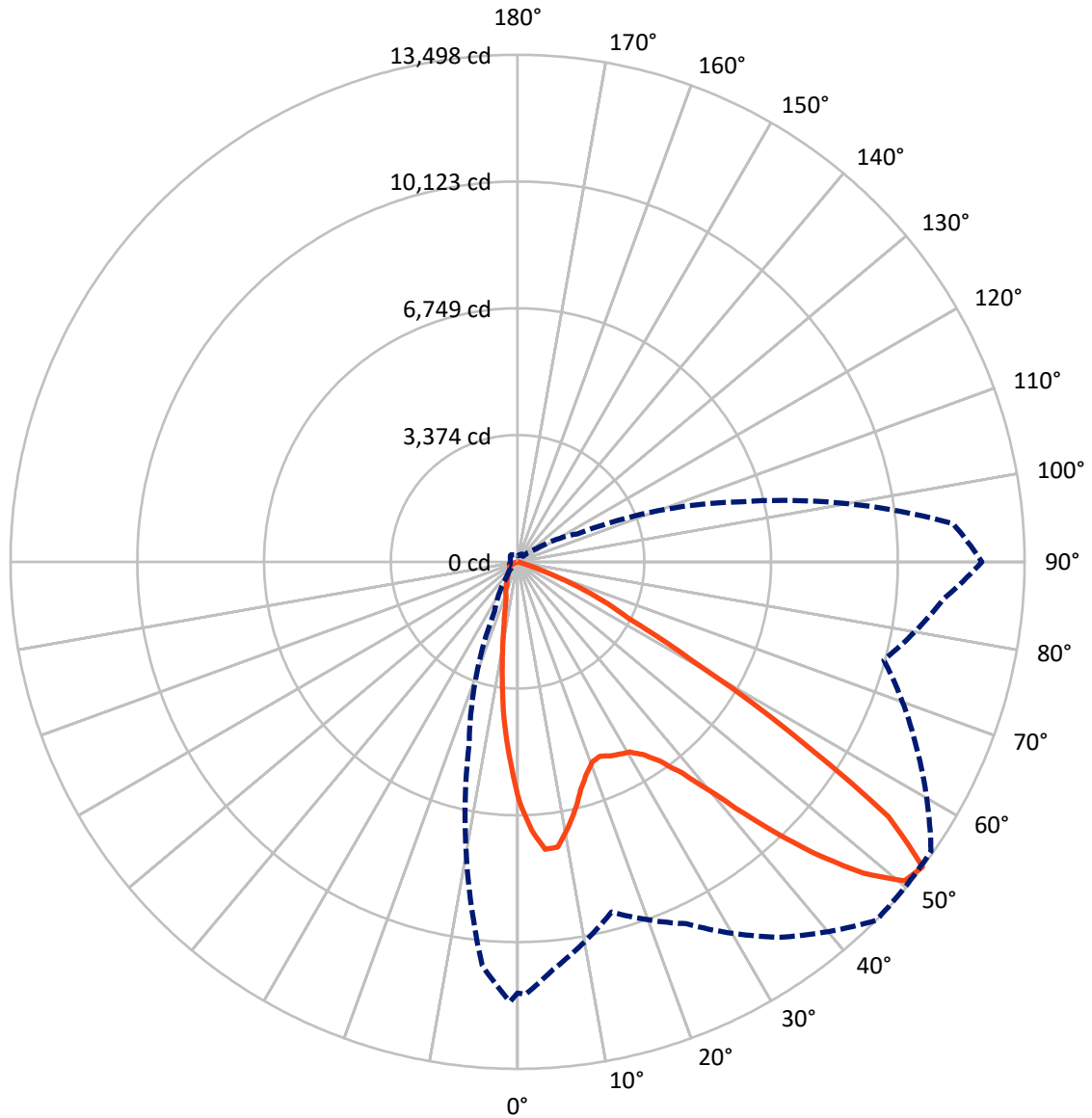
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2558.8	0.0	2558.8
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	10049.4	0.0	10049.4
	% Fixture	79.7	0.0	79.7
Total	Lumens	12608.2	0.0	12608.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.2	3.7
10°-20°	919.9	7.3
20°-30°	1399.9	11.1
30°-40°	2092.3	16.6
40°-50°	2979.6	23.6
50°-60°	3202.9	25.4
60°-70°	1419.3	11.3
70°-80°	114.8	0.9
80°-90°	13.4	0.1
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°	12608.2	100.0
0°-180°	12608.2	100.0

Coefficient of Utilization

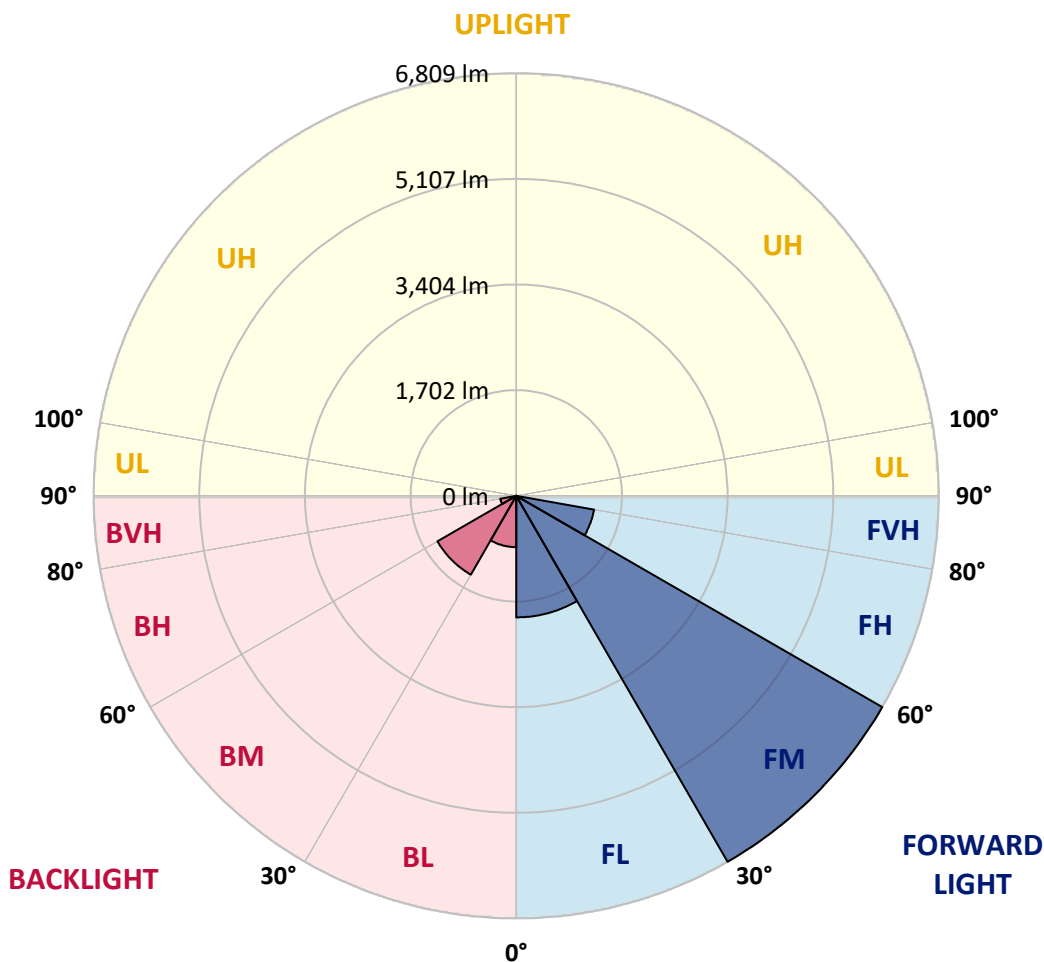


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1958.3	15.5			
FM (30°-60°)	6808.9	54.0			
FH (60°-80°)	1272.3	10.1			G1/1800
FVH (80°-90°)	9.9	0.1			G0/10
BL (0°-30°)	827.6	6.6	B2/1000		
BM (30°-60°)	1465.9	11.6	B2/2500		
BH (60°-80°)	261.8	2.1	B1/500		G1/500
BVH (80°-90°)	3.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6392.9	6392.9	6392.9	6392.9	6392.9	6392.9	6392.9	6392.9	6392.9	6392.9	6392.9
2.5°	6764.9	6784.8	6893.9	7030.3	7102.2	7265.9	7151.8	7181.6	7119.6	6901.3	6730.3
5°	6559.1	6556.7	6695.5	7032.8	7352.7	7677.5	7687.4	7513.8	7208.8	6874.1	6395.5
7.5°	5939.1	6035.9	6179.8	6717.8	7310.5	7553.5	7670.1	7466.7	6998.0	6519.4	6001.2
10°	5470.5	5520.1	5763.1	6412.8	6846.7	7171.6	7243.5	7127.0	6767.4	6169.8	5589.5
12.5°	5200.2	5225.0	5510.1	6055.7	6514.5	6755.0	6789.7	6844.3	6586.4	6025.9	5329.2
15°	5202.7	5222.5	5606.9	6063.2	6244.2	6179.8	6293.8	6291.3	6402.9	5998.7	5547.3
17.5°	5577.1	5599.5	5946.6	6172.3	6093.0	5941.7	5934.2	6048.3	6283.9	6338.4	5877.2
20°	6221.9	6273.9	6529.4	6517.0	6070.6	5765.6	5681.3	5768.1	6316.1	6626.1	6541.8
22.5°	7089.8	7161.7	7340.2	6998.0	6172.3	5646.6	5619.3	5787.9	6529.4	7268.3	7295.7
25°	8096.6	8218.2	8305.0	7866.0	6534.3	5852.4	5723.4	6013.6	6817.1	7965.2	8255.3
27.5°	8763.7	8890.1	8870.4	8242.9	6777.4	5906.9	5797.9	6068.2	7067.5	8131.4	8756.2
30°	9284.5	9361.3	9500.2	8446.2	7020.4	6060.7	5874.7	6298.8	7149.3	8419.0	9361.3
32.5°	9892.0	9944.1	9954.0	8805.9	7394.8	6254.1	6112.7	6586.4	7511.4	8694.3	9897.0
35°	10504.5	10581.4	10420.2	9249.7	7625.4	6613.7	6509.5	7084.8	7801.5	8979.4	10487.2
37.5°	11169.2	11208.8	10836.8	9433.2	7955.3	7199.0	7141.9	7623.0	8305.0	9495.2	11141.8
40°	11727.1	11764.2	11280.7	9658.9	8302.4	8017.3	8163.6	8649.6	8989.4	9830.0	11469.1
42.5°	12037.1	12123.9	11429.5	9534.9	8999.3	8944.7	9594.5	9765.5	9782.9	9924.2	11761.8
45°	12121.3	12081.7	11184.0	9636.6	9609.4	10469.8	11060.0	11285.6	10571.5	10097.8	11836.1
47.5°	11732.0	11784.1	10821.9	9547.3	10410.3	11625.4	12389.2	12808.3	11159.2	9946.6	11652.6
50°	11417.1	11350.1	10705.4	9482.9	10626.0	12171.0	13348.9	13443.1	11699.8	10132.5	11451.8
52.5°	11479.1	11521.3	10891.4	9653.9	10631.0	12203.2	13497.6	13433.2	11717.1	10090.4	11379.9
55°	11610.5	11424.6	10812.0	9277.0	9919.3	11303.0	11980.0	11880.8	10814.5	9641.6	11203.8
57.5°	10018.5	10306.1	9941.6	8282.6	8141.2	8515.7	8503.3	8808.3	8066.9	8297.5	10199.5
60°	8131.4	8180.9	8317.3	7084.8	5634.2	5505.2	5326.6	5133.2	5428.3	7094.8	9277.0
62.5°	7151.8	7092.3	7578.3	6445.1	3977.6	3330.4	3300.7	3419.7	4188.4	6767.4	8701.7
65°	5197.7	5272.1	5624.3	5001.8	2985.7	2541.8	2497.2	2849.3	3389.9	5423.4	6641.0
67.5°	3174.2	3318.0	3350.2	3084.9	2026.1	1609.4	1544.9	1864.8	2447.6	3509.0	3893.3
70°	1465.6	1639.2	1802.9	1683.8	1172.9	662.1	624.9	783.6	1234.9	2018.6	2065.7
72.5°	443.9	446.4	624.9	652.2	379.4	148.8	131.4	173.6	419.1	667.1	701.8
75°	32.2	34.7	84.4	96.7	71.9	37.2	39.7	47.1	89.3	148.8	111.6
77.5°	2.4	2.4	2.4	12.4	22.3	24.8	32.2	37.2	47.1	54.6	49.6
80°	2.4	0.0	2.4	9.9	17.3	24.8	29.8	34.7	37.2	42.1	37.2
82.5°	0.0	0.0	0.0	7.4	17.3	24.8	27.2	37.2	42.1	49.6	42.1
85°	0.0	0.0	0.0	7.4	17.3	27.2	24.8	12.4	0.0	0.0	0.0
87.5°	0.0	0.0	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°	6392.9	6392.9	6392.9	6392.9	6392.9	6392.9	6392.9	6392.9	6392.9	6392.9	6392.9
2.5°	6760.0	6663.2	6442.6	6331.0	6068.2	6030.9	5773.0	5730.8	5644.0	5596.9	5482.9
5°	6184.7	6068.2	5708.5	5406.0	5053.9	4808.3	4619.9	4448.8	4349.6	4257.8	4300.0
7.5°	5716.0	5376.3	4977.0	4471.1	4064.5	3801.6	3513.9	3278.3	3139.5	3045.3	3067.5
10°	5225.0	5004.3	4448.8	3881.0	3389.9	3204.0	2978.2	2797.3	2601.3	2432.7	2353.4
12.5°	5071.2	4743.9	4047.1	3469.3	3097.3	2916.3	2658.4	2450.1	2199.6	1993.8	1921.9
15°	5098.5	4783.6	3938.0	3320.5	2881.5	2569.1	2261.6	2003.7	1728.4	1584.6	1510.2
17.5°	5542.4	4996.8	4009.9	3164.3	2581.5	2147.5	1768.1	1440.8	1234.9	1086.2	1053.9
20°	6088.0	5458.1	4163.6	3050.1	2336.0	1708.6	1292.0	1009.3	838.1	813.4	805.9
22.5°	6886.4	6212.0	4493.5	2973.3	2035.9	1331.6	885.3	734.0	686.9	682.0	684.4
25°	8002.4	7156.7	4853.0	2908.9	1810.3	1026.6	724.1	622.4	607.5	600.1	612.5
27.5°	8485.9	7727.1	5044.0	2770.0	1604.5	924.9	714.2	617.5	575.3	562.9	570.4
30°	9083.6	8106.6	5344.1	2531.9	1301.9	761.3	667.1	672.0	652.2	590.2	570.4
32.5°	9877.1	8580.2	5495.3	2363.3	1163.0	629.9	488.5	448.8	500.9	510.8	528.2
35°	10385.5	9061.3	5572.1	2264.1	1091.1	538.2	414.1	376.9	364.6	367.0	376.9
37.5°	11330.3	9710.9	5668.8	2159.9	1036.5	468.7	374.4	339.8	322.4	322.4	332.3
40°	11895.7	10226.8	5800.3	2102.9	982.0	426.6	339.8	310.0	295.1	295.1	300.1
42.5°	12037.1	10482.2	5755.6	2083.1	920.1	416.6	310.0	287.6	270.3	267.9	265.3
45°	12290.0	10871.5	5763.1	2060.7	855.5	379.4	292.6	267.9	243.0	240.5	238.1
47.5°	12567.7	11151.7	5778.0	1973.9	793.6	317.4	305.0	248.0	218.2	213.3	213.3
50°	12329.6	11374.9	5906.9	1887.1	714.2	257.9	300.1	233.1	193.4	185.9	188.5
52.5°	12359.4	11637.8	6179.8	1765.6	615.0	205.8	243.0	220.7	176.1	163.7	166.2
55°	11883.3	11360.1	6216.9	1636.7	481.1	158.7	185.9	193.4	148.8	143.8	143.8
57.5°	10229.3	9619.2	5485.3	1326.7	317.4	131.4	133.9	168.6	128.9	124.0	126.5
60°	8753.8	7722.1	4414.1	875.4	198.4	104.1	96.7	171.1	114.0	111.6	119.0
62.5°	7980.1	6345.8	3347.8	543.1	136.4	79.4	66.9	138.8	99.2	99.2	109.1
65°	5765.6	4262.8	1946.7	285.2	96.7	62.0	49.6	79.4	81.8	84.4	89.3
67.5°	3571.0	2152.5	820.8	138.8	64.5	42.1	32.2	49.6	54.6	54.6	59.5
70°	1763.2	858.0	272.8	79.4	49.6	34.7	22.3	27.2	27.2	24.8	27.2
72.5°	545.6	257.9	69.5	49.6	34.7	22.3	12.4	9.9	5.0	0.0	2.4
75°	62.0	49.6	44.7	34.7	22.3	9.9	2.4	0.0	0.0	0.0	0.0
77.5°	37.2	42.1	42.1	34.7	22.3	7.4	0.0	0.0	0.0	0.0	0.0
80°	29.8	32.2	34.7	32.2	19.8	9.9	0.0	0.0	0.0	0.0	0.0
82.5°	37.2	42.1	47.1	42.1	27.2	12.4	5.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	7.4	2.4	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6392.9	6392.9	6392.9	6392.9	6392.9	6392.9	6392.9	6392.9	6392.9	6392.9	6392.9
2.5°	5435.8	5381.2	5458.1	5344.1	5341.5	5344.1	5311.8	5282.0	5329.2	5455.6	5468.0
5°	4148.7	4265.3	4302.5	4424.0	4357.1	4257.8	4277.7	4210.7	4374.4	4446.3	4389.3
7.5°	3020.5	3013.0	3263.4	3278.3	3310.6	3313.0	3308.1	3176.6	3042.7	3072.5	3161.7
10°	2343.4	2217.0	2338.5	2326.0	2405.4	2383.1	2415.4	2274.0	2321.1	2321.1	2378.2
12.5°	1909.5	1775.5	1753.2	1721.0	1753.2	1765.6	1778.0	1750.8	1830.1	1867.3	1907.0
15°	1458.1	1383.8	1363.9	1301.9	1311.8	1346.5	1376.3	1388.7	1363.9	1421.0	1425.9
17.5°	1058.9	1056.4	1068.8	1066.3	1056.4	1049.0	1046.5	1014.2	1004.3	1009.3	1029.1
20°	803.5	823.3	865.5	907.6	929.9	902.6	865.5	810.9	788.6	793.6	796.0
22.5°	686.9	716.7	773.7	820.8	843.1	793.6	726.6	679.4	669.5	667.1	664.6
25°	622.4	657.2	699.3	714.2	711.7	682.0	632.3	612.5	607.5	602.6	580.3
27.5°	587.7	600.1	607.5	624.9	632.3	612.5	600.1	570.4	565.4	565.4	550.5
30°	567.8	560.4	570.4	557.9	567.8	553.0	555.5	555.5	543.1	548.1	548.1
32.5°	528.2	530.7	530.7	505.9	513.3	495.9	513.3	528.2	530.7	533.2	553.0
35°	386.9	431.5	453.8	453.8	461.3	448.8	446.4	429.0	406.7	384.3	374.4
37.5°	339.8	357.1	386.9	404.2	416.6	406.7	384.3	357.1	344.7	334.8	324.9
40°	302.5	317.4	337.2	357.1	381.9	369.5	334.8	322.4	307.5	307.5	297.5
42.5°	272.8	280.2	292.6	322.4	349.7	324.9	300.1	290.1	282.7	280.2	277.7
45°	245.5	248.0	260.4	285.2	317.4	292.6	267.9	255.4	257.9	260.4	257.9
47.5°	220.7	225.6	233.1	262.9	282.7	270.3	243.0	235.6	235.6	235.6	238.1
50°	190.9	203.4	218.2	243.0	257.9	250.4	228.2	218.2	213.3	213.3	215.7
52.5°	171.1	181.1	200.8	230.6	250.4	238.1	215.7	200.8	190.9	188.5	193.4
55°	148.8	166.2	198.4	220.7	248.0	235.6	210.8	193.4	176.1	173.6	173.6
57.5°	133.9	161.2	190.9	218.2	240.5	230.6	210.8	188.5	166.2	163.7	163.7
60°	126.5	156.3	185.9	210.8	240.5	225.6	208.3	183.5	158.7	158.7	156.3
62.5°	119.0	146.3	176.1	200.8	230.6	218.2	200.8	176.1	151.3	151.3	146.3
65°	99.2	126.5	146.3	168.6	200.8	188.5	171.1	153.7	133.9	128.9	131.4
67.5°	69.5	86.8	106.6	128.9	148.8	143.8	136.4	124.0	106.6	104.1	101.7
70°	34.7	47.1	64.5	86.8	104.1	99.2	94.2	84.4	74.4	71.9	71.9
72.5°	5.0	14.9	27.2	39.7	54.6	57.0	54.6	52.1	49.6	47.1	49.6
75°	0.0	0.0	0.0	9.9	22.3	27.2	32.2	37.2	37.2	32.2	39.7
77.5°	0.0	0.0	0.0	0.0	2.4	12.4	24.8	32.2	39.7	34.7	47.1
80°	0.0	0.0	0.0	0.0	2.4	14.9	24.8	34.7	39.7	34.7	49.6
82.5°	0.0	0.0	0.0	0.0	2.4	17.3	24.8	32.2	37.2	34.7	44.7
85°	0.0	0.0	0.0	0.0	7.4	14.9	9.9	5.0	2.4	2.4	7.4
87.5°	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6392.9	6392.9	6392.9	6392.9	6392.9	6392.9	6392.9	6392.9	6392.9	6392.9
2.5°	5537.5	5713.5	5902.0	5973.9	6197.1	6365.7	6479.7	6725.3	6762.5	6764.9
5°	4448.8	4538.0	4860.5	5011.7	5344.1	5601.9	5877.2	6273.9	6539.3	6559.1
7.5°	3161.7	3409.8	3546.2	3940.4	4349.6	4753.8	5163.0	5624.3	5931.7	5939.1
10°	2544.3	2705.5	2948.5	3243.6	3588.3	4000.0	4545.5	5081.2	5393.6	5470.5
12.5°	2048.3	2331.0	2608.8	2913.8	3176.6	3486.6	4074.3	4788.6	5046.4	5200.2
15°	1577.1	1835.1	2162.4	2519.5	2817.1	3231.2	3900.7	4716.6	5150.6	5202.7
17.5°	1163.0	1393.6	1696.2	2033.5	2479.9	3067.5	3930.5	5081.2	5490.3	5577.1
20°	835.7	969.6	1207.7	1599.5	2167.3	2876.6	3960.3	5450.7	6073.1	6221.9
22.5°	662.1	716.7	872.9	1220.0	1817.7	2675.7	4171.0	6157.4	6874.1	7089.8
25°	575.3	605.1	679.4	962.2	1597.0	2655.9	4508.3	7005.5	7940.4	8096.6
27.5°	555.5	560.4	624.9	882.8	1478.0	2524.4	4637.3	7608.1	8604.9	8763.7
30°	585.3	664.6	669.5	746.4	1257.3	2264.1	4704.2	8190.8	9167.9	9284.5
32.5°	505.9	481.1	498.5	577.8	1106.0	2112.8	4830.7	8699.2	9810.2	9892.0
35°	352.1	369.5	409.1	500.9	967.2	1954.1	4862.9	9259.7	10420.2	10504.5
37.5°	324.9	334.8	367.0	426.6	850.6	1864.8	4818.3	9668.8	11052.6	11169.2
40°	302.5	315.0	332.3	386.9	763.8	1765.6	4756.3	10038.3	11439.5	11727.1
42.5°	285.2	295.1	310.0	369.5	689.4	1666.4	4669.5	10559.1	11786.6	12037.1
45°	265.3	280.2	297.5	359.6	647.2	1599.5	4605.1	10526.9	11987.4	12121.3
47.5°	245.5	270.3	290.1	334.8	634.9	1567.3	4632.3	10405.4	11823.8	11732.0
50°	225.6	257.9	292.6	277.7	605.1	1502.8	4664.5	10571.5	11434.5	11417.1
52.5°	208.3	245.5	272.8	228.2	538.2	1440.8	4977.0	10789.7	11709.7	11479.1
55°	183.5	220.7	218.2	183.5	436.5	1393.6	5222.5	10794.7	11523.7	11610.5
57.5°	166.2	195.9	171.1	153.7	322.4	1165.5	4823.2	9051.3	9864.8	10018.5
60°	153.7	190.9	128.9	121.5	210.8	840.7	4210.7	7010.5	7841.2	8131.4
62.5°	141.4	181.1	101.7	99.2	146.3	597.6	3461.8	5867.2	6757.5	7151.8
65°	124.0	128.9	81.8	76.9	104.1	322.4	2107.9	4039.7	5051.4	5197.7
67.5°	101.7	99.2	66.9	62.0	69.5	156.3	929.9	2023.5	2928.7	3174.2
70°	81.8	81.8	57.0	49.6	49.6	71.9	243.0	805.9	1324.2	1465.6
72.5°	59.5	62.0	44.7	39.7	37.2	34.7	39.7	161.2	347.2	443.9
75°	52.1	54.6	44.7	34.7	27.2	22.3	17.3	14.9	19.8	32.2
77.5°	57.0	57.0	47.1	32.2	24.8	17.3	9.9	5.0	5.0	2.4
80°	71.9	74.4	62.0	42.1	29.8	19.8	12.4	5.0	2.4	2.4
82.5°	76.9	84.4	69.5	52.1	37.2	22.3	12.4	2.4	0.0	0.0
85°	19.8	32.2	54.6	47.1	37.2	22.3	12.4	2.4	0.0	0.0
87.5°	0.0	2.4	7.4	7.4	9.9	9.9	7.4	2.4	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

(END OF REPORT)