

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: P647939

Luminaire Tested: **GALN-SA5A-835-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647939
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-SA5A-835-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 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: 9913.6 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

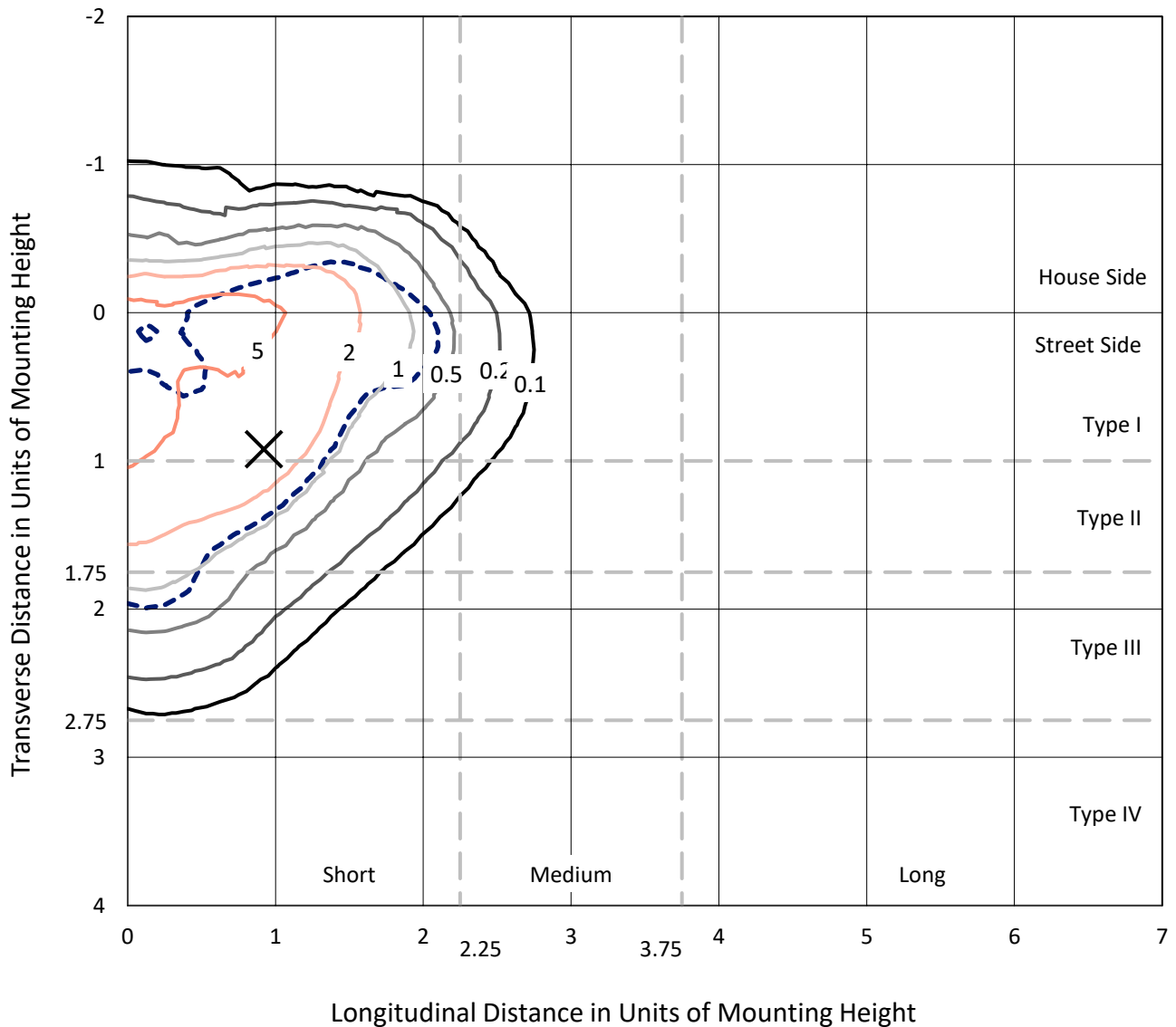
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

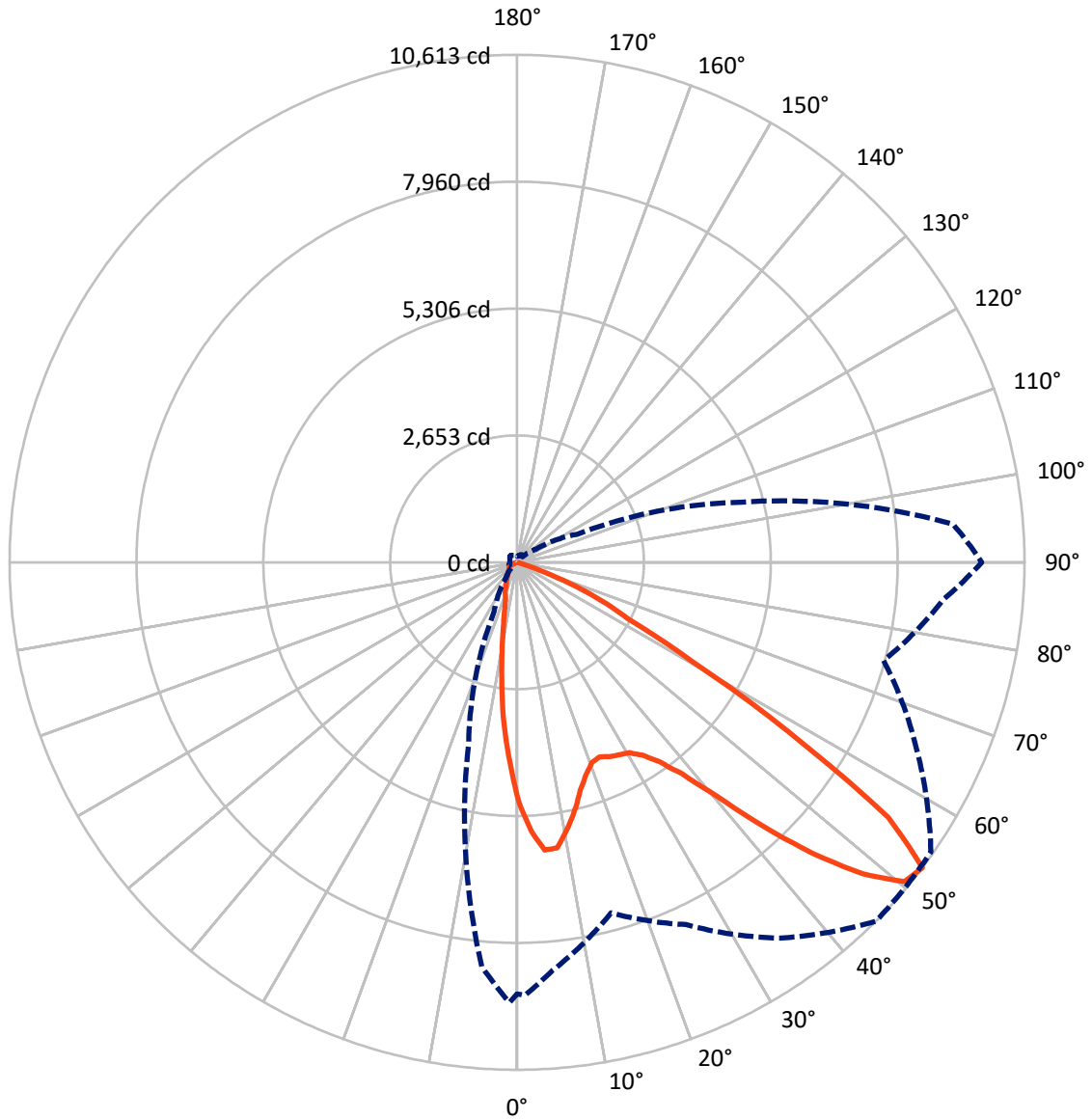
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	2012.0	0.0	2012.0
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	7901.6	0.0	7901.6
	% Fixture	79.7	0.0	79.7
Total	Lumens	9913.6	0.0	9913.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.6	3.7
10°-20°	723.3	7.3
20°-30°	1100.7	11.1
30°-40°	1645.1	16.6
40°-50°	2342.8	23.6
50°-60°	2518.4	25.4
60°-70°	1116.0	11.3
70°-80°	90.3	0.9
80°-90°	10.5	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°	9913.6	100.0
0°-180°	9913.6	100.0

Coefficient of Utilization



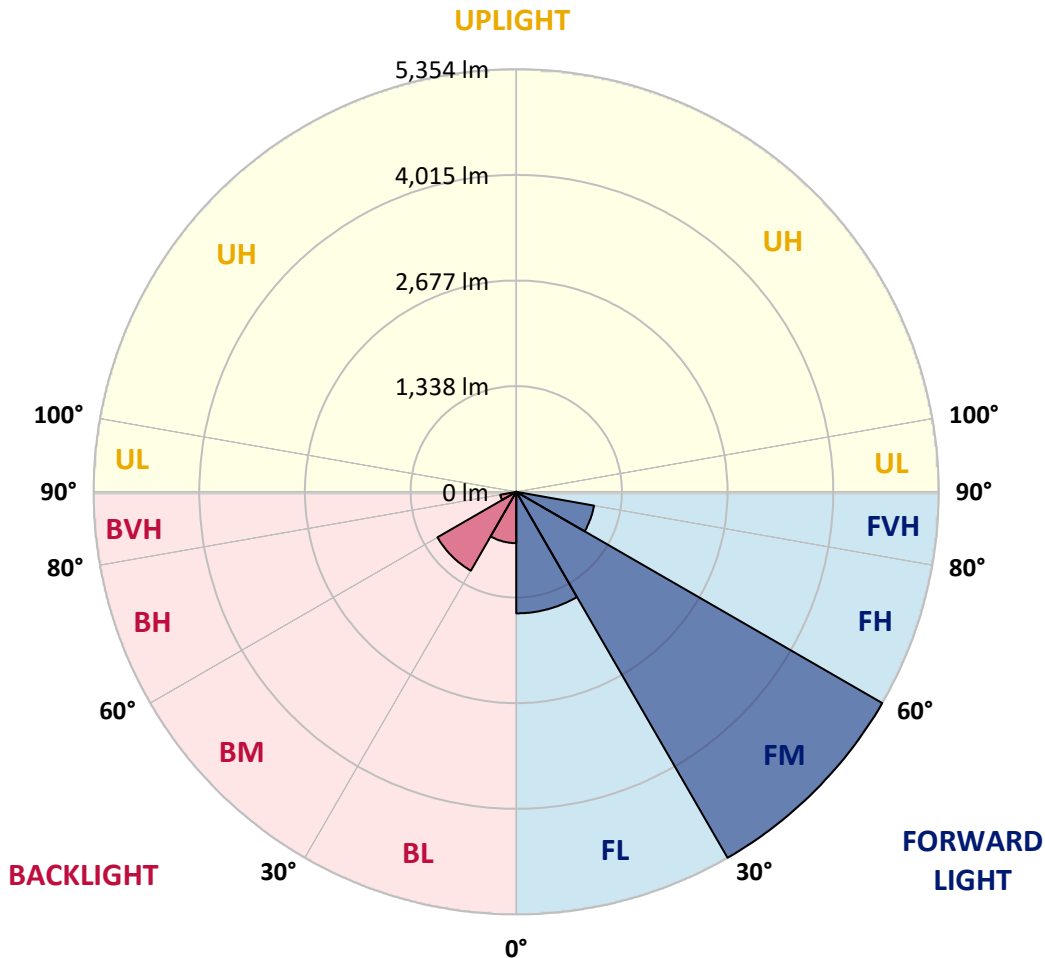
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1539.8	15.5			
FM (30°-60°)	5353.6	54.0			
FH (60°-80°)	1000.4	10.1			G1/1800
FVH (80°-90°)	7.8	0.1			G0/10
BL (0°-30°)	650.7	6.6	B2/1000		
BM (30°-60°)	1152.6	11.6	B2/2500		
BH (60°-80°)	205.9	2.1	B1/500		G1/500
BVH (80°-90°)	2.7	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°	5026.6	5026.6	5026.6	5026.6	5026.6	5026.6	5026.6	5026.6	5026.6	5026.6	5026.6
2.5°	5319.1	5334.7	5420.5	5527.7	5584.3	5713.0	5623.3	5646.7	5597.9	5426.3	5291.8
5°	5157.3	5155.4	5264.5	5529.7	5781.2	6036.6	6044.4	5908.0	5668.1	5404.9	5028.6
7.5°	4669.8	4745.8	4859.0	5282.0	5748.1	5939.1	6030.8	5870.9	5502.4	5126.1	4718.6
10°	4301.3	4340.3	4531.4	5042.2	5383.4	5638.9	5695.5	5603.8	5321.0	4851.2	4394.9
12.5°	4088.7	4108.2	4332.5	4761.4	5122.2	5311.3	5338.6	5381.5	5178.8	4738.1	4190.1
15°	4090.7	4106.3	4408.5	4767.3	4909.6	4859.0	4948.6	4946.7	5034.5	4716.6	4361.8
17.5°	4385.1	4402.7	4675.7	4853.1	4790.7	4671.8	4665.9	4755.6	4940.8	4983.7	4621.1
20°	4892.1	4933.1	5133.9	5124.1	4773.2	4533.3	4467.0	4535.3	4966.2	5209.9	5143.6
22.5°	5574.6	5631.1	5771.5	5502.4	4853.1	4439.8	4418.3	4550.9	5133.9	5715.0	5736.3
25°	6366.2	6461.7	6530.0	6184.8	5137.8	4601.6	4500.2	4728.3	5360.0	6262.8	6490.9
27.5°	6890.6	6990.1	6974.5	6481.2	5328.9	4644.4	4558.7	4771.2	5557.0	6393.4	6884.8
30°	7300.1	7360.6	7469.7	6641.1	5519.9	4765.3	4619.2	4952.6	5621.3	6619.6	7360.6
32.5°	7777.9	7818.8	7826.6	6923.8	5814.4	4917.5	4806.3	5178.8	5906.0	6836.1	7781.8
35°	8259.5	8319.9	8193.2	7272.8	5995.7	5200.1	5118.3	5570.7	6134.1	7060.3	8245.8
37.5°	8782.0	8813.2	8520.7	7417.1	6255.0	5660.3	5615.5	5993.8	6530.0	7465.8	8760.5
40°	9220.7	9250.0	8869.7	7594.6	6528.0	6303.8	6418.8	6801.0	7068.1	7729.1	9017.9
42.5°	9464.4	9532.6	8986.7	7497.1	7075.9	7033.0	7543.9	7678.4	7692.0	7803.1	9248.0
45°	9530.8	9499.5	8793.7	7577.0	7555.6	8232.1	8696.2	8873.7	8312.1	7939.7	9306.5
47.5°	9224.6	9265.6	8509.0	7506.8	8185.3	9140.7	9741.3	10070.8	8774.2	7820.8	9162.2
50°	8976.9	8924.3	8417.4	7456.1	8355.0	9569.7	10495.9	10570.0	9199.2	7966.9	9004.3
52.5°	9025.7	9058.8	8563.6	7590.6	8358.9	9595.0	10612.9	10562.2	9212.9	7933.8	8947.7
55°	9129.1	8982.8	8501.2	7294.3	7799.3	8887.3	9419.6	9341.6	8503.1	7580.9	8809.3
57.5°	7877.3	8103.4	7816.8	6512.4	6401.3	6695.7	6686.0	6925.8	6342.8	6524.1	8019.6
60°	6393.4	6432.4	6539.7	5570.7	4430.0	4328.6	4188.2	4036.1	4268.1	5578.4	7294.3
62.5°	5623.3	5576.4	5958.6	5067.6	3127.5	2618.6	2595.2	2688.8	3293.2	5321.0	6841.9
65°	4086.8	4145.3	4422.2	3932.8	2347.6	1998.5	1963.5	2240.3	2665.4	4264.3	5221.6
67.5°	2495.7	2608.9	2634.2	2425.6	1593.0	1265.4	1214.7	1466.2	1924.5	2759.0	3061.2
70°	1152.3	1288.8	1417.5	1323.9	922.3	520.6	491.3	616.1	971.0	1587.1	1624.2
72.5°	349.0	350.9	491.3	512.8	298.3	117.0	103.4	136.5	329.5	524.5	551.8
75°	25.4	27.3	66.3	76.0	56.5	29.3	31.2	37.0	70.2	117.0	87.8
77.5°	2.0	2.0	2.0	9.8	17.5	19.5	25.4	29.3	37.0	42.9	39.0
80°	2.0	0.0	2.0	7.8	13.6	19.5	23.4	27.3	29.3	33.1	29.3
82.5°	0.0	0.0	0.0	5.9	13.6	19.5	21.5	29.3	33.1	39.0	33.1
85°	0.0	0.0	0.0	5.9	13.6	21.5	19.5	9.8	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°	5026.6	5026.6	5026.6	5026.6	5026.6	5026.6	5026.6	5026.6	5026.6	5026.6	5026.6
2.5°	5315.2	5239.1	5065.6	4977.9	4771.2	4741.9	4539.2	4506.0	4437.8	4400.8	4311.0
5°	4862.8	4771.2	4488.5	4250.6	3973.7	3780.7	3632.5	3498.0	3420.0	3347.9	3381.0
7.5°	4494.3	4227.2	3913.3	3515.5	3195.7	2989.1	2762.9	2577.6	2468.5	2394.4	2412.0
10°	4108.2	3934.7	3498.0	3051.5	2665.4	2519.1	2341.7	2199.4	2045.4	1912.8	1850.4
12.5°	3987.3	3730.0	3182.1	2727.8	2435.4	2293.0	2090.2	1926.4	1729.5	1567.6	1511.1
15°	4008.8	3761.2	3096.3	2610.8	2265.7	2020.0	1778.3	1575.5	1359.1	1245.9	1187.4
17.5°	4357.9	3928.9	3152.8	2488.0	2029.8	1688.5	1390.2	1132.8	971.0	854.0	828.6
20°	4786.8	4291.5	3273.7	2398.3	1836.8	1343.4	1015.9	793.6	659.1	639.6	633.7
22.5°	5414.7	4884.3	3533.1	2337.8	1600.8	1047.0	696.1	577.1	540.1	536.2	538.2
25°	6292.1	5627.2	3815.8	2287.1	1423.3	807.2	569.3	489.4	477.7	471.8	481.6
27.5°	6672.3	6075.6	3966.0	2177.9	1261.6	727.3	561.6	485.5	452.3	442.6	448.4
30°	7142.2	6373.9	4201.9	1990.8	1023.7	598.6	524.5	528.4	512.8	464.1	448.4
32.5°	7766.1	6746.4	4320.8	1858.2	914.5	495.2	384.1	352.9	393.8	401.7	415.3
35°	8165.8	7124.7	4381.3	1780.2	857.9	423.1	325.6	296.4	286.7	288.5	296.4
37.5°	8908.7	7635.5	4457.3	1698.3	815.0	368.5	294.4	267.2	253.5	253.5	261.3
40°	9353.3	8041.1	4560.7	1653.5	772.1	335.4	267.2	243.7	232.0	232.0	235.9
42.5°	9464.4	8241.9	4525.5	1637.9	723.4	327.6	243.7	226.2	212.5	210.5	208.7
45°	9663.3	8548.0	4531.4	1620.3	672.7	298.3	230.0	210.5	191.1	189.1	187.2
47.5°	9881.7	8768.3	4543.0	1552.1	624.0	249.5	239.8	195.0	171.6	167.7	167.7
50°	9694.5	8943.8	4644.4	1483.8	561.6	202.8	235.9	183.3	152.1	146.3	148.2
52.5°	9717.9	9150.5	4859.0	1388.3	483.6	161.8	191.1	173.5	138.4	128.7	130.6
55°	9343.5	8932.2	4888.2	1286.9	378.3	124.8	146.3	152.1	117.0	113.1	113.1
57.5°	8043.0	7563.4	4313.0	1043.2	249.5	103.4	105.3	132.6	101.4	97.5	99.4
60°	6882.9	6071.8	3470.6	688.3	156.0	81.9	76.0	134.5	89.7	87.8	93.6
62.5°	6274.5	4989.6	2632.3	427.0	107.3	62.4	52.6	109.2	78.0	78.0	85.8
65°	4533.3	3351.7	1530.6	224.3	76.0	48.8	39.0	62.4	64.4	66.3	70.2
67.5°	2807.8	1692.5	645.4	109.2	50.7	33.1	25.4	39.0	42.9	42.9	46.8
70°	1386.3	674.6	214.5	62.4	39.0	27.3	17.5	21.5	21.5	19.5	21.5
72.5°	428.9	202.8	54.6	39.0	27.3	17.5	9.8	7.8	3.9	0.0	2.0
75°	48.8	39.0	35.1	27.3	17.5	7.8	2.0	0.0	0.0	0.0	0.0
77.5°	29.3	33.1	33.1	27.3	17.5	5.9	0.0	0.0	0.0	0.0	0.0
80°	23.4	25.4	27.3	25.4	15.6	7.8	0.0	0.0	0.0	0.0	0.0
82.5°	29.3	33.1	37.0	33.1	21.5	9.8	3.9	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	5.9	2.0	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°	5026.6	5026.6	5026.6	5026.6	5026.6	5026.6	5026.6	5026.6	5026.6	5026.6	5026.6
2.5°	4274.0	4231.1	4291.5	4201.9	4199.9	4201.9	4176.5	4153.1	4190.1	4289.6	4299.4
5°	3262.1	3353.7	3383.0	3478.5	3425.9	3347.9	3363.5	3310.8	3439.5	3496.0	3451.2
7.5°	2374.9	2369.0	2566.0	2577.6	2603.0	2605.0	2601.0	2497.7	2392.5	2415.8	2486.0
10°	1842.6	1743.1	1838.7	1828.9	1891.3	1873.8	1899.1	1788.0	1825.0	1825.0	1869.9
12.5°	1501.3	1396.1	1378.5	1353.2	1378.5	1388.3	1398.0	1376.6	1439.0	1468.2	1499.4
15°	1146.5	1088.0	1072.4	1023.7	1031.4	1058.8	1082.2	1091.9	1072.4	1117.3	1121.2
17.5°	832.6	830.6	840.4	838.4	830.6	824.8	822.9	797.5	789.7	793.6	809.2
20°	631.7	647.3	680.5	713.6	731.2	709.7	680.5	637.6	620.1	624.0	625.9
22.5°	540.1	563.5	608.3	645.4	663.0	624.0	571.3	534.2	526.5	524.5	522.6
25°	489.4	516.7	549.8	561.6	559.6	536.2	497.2	481.6	477.7	473.8	456.3
27.5°	462.1	471.8	477.7	491.3	497.2	481.6	471.8	448.4	444.6	444.6	432.8
30°	446.5	440.7	448.4	438.7	446.5	434.8	436.8	436.8	427.0	430.9	430.9
32.5°	415.3	417.3	417.3	397.8	403.6	389.9	403.6	415.3	417.3	419.2	434.8
35°	304.2	339.3	356.8	356.8	362.7	352.9	350.9	337.3	319.8	302.2	294.4
37.5°	267.2	280.8	304.2	317.8	327.6	319.8	302.2	280.8	271.0	263.2	255.4
40°	237.9	249.5	265.2	280.8	300.3	290.5	263.2	253.5	241.8	241.8	234.0
42.5°	214.5	220.3	230.0	253.5	274.9	255.4	235.9	228.2	222.3	220.3	218.4
45°	193.0	195.0	204.8	224.3	249.5	230.0	210.5	200.8	202.8	204.8	202.8
47.5°	173.5	177.4	183.3	206.7	222.3	212.5	191.1	185.3	185.3	185.3	187.2
50°	150.1	159.9	171.6	191.1	202.8	196.9	179.4	171.6	167.7	167.7	169.6
52.5°	134.5	142.3	157.9	181.3	196.9	187.2	169.6	157.9	150.1	148.2	152.1
55°	117.0	130.6	156.0	173.5	195.0	185.3	165.8	152.1	138.4	136.5	136.5
57.5°	105.3	126.8	150.1	171.6	189.1	181.3	165.8	148.2	130.6	128.7	128.7
60°	99.4	122.9	146.3	165.8	189.1	177.4	163.8	144.3	124.8	124.8	122.9
62.5°	93.6	115.0	138.4	157.9	181.3	171.6	157.9	138.4	118.9	118.9	115.0
65°	78.0	99.4	115.0	132.6	157.9	148.2	134.5	120.9	105.3	101.4	103.4
67.5°	54.6	68.3	83.9	101.4	117.0	113.1	107.3	97.5	83.9	81.9	79.9
70°	27.3	37.0	50.7	68.3	81.9	78.0	74.1	66.3	58.5	56.5	56.5
72.5°	3.9	11.7	21.5	31.2	42.9	44.9	42.9	41.0	39.0	37.0	39.0
75°	0.0	0.0	0.0	7.8	17.5	21.5	25.4	29.3	29.3	25.4	31.2
77.5°	0.0	0.0	0.0	0.0	2.0	9.8	19.5	25.4	31.2	27.3	37.0
80°	0.0	0.0	0.0	0.0	2.0	11.7	19.5	27.3	31.2	27.3	39.0
82.5°	0.0	0.0	0.0	0.0	2.0	13.6	19.5	25.4	29.3	27.3	35.1
85°	0.0	0.0	0.0	0.0	5.9	11.7	7.8	3.9	2.0	2.0	5.9
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°	5026.6	5026.6	5026.6	5026.6	5026.6	5026.6	5026.6	5026.6	5026.6	5026.6
2.5°	4353.9	4492.4	4640.6	4697.1	4872.6	5005.2	5094.9	5287.9	5317.2	5319.1
5°	3498.0	3568.2	3821.7	3940.6	4201.9	4404.6	4621.1	4933.1	5141.6	5157.3
7.5°	2486.0	2681.0	2788.3	3098.3	3420.0	3737.8	4059.5	4422.2	4663.9	4669.8
10°	2000.5	2127.3	2318.3	2550.4	2821.4	3145.1	3574.0	3995.2	4240.9	4301.3
12.5°	1610.6	1832.8	2051.2	2291.1	2497.7	2741.4	3203.6	3765.1	3967.9	4088.7
15°	1240.1	1442.8	1700.2	1981.0	2215.0	2540.6	3067.1	3708.5	4049.8	4090.7
17.5°	914.5	1095.8	1333.7	1598.9	1949.8	2412.0	3090.5	3995.2	4316.9	4385.1
20°	657.1	762.4	949.5	1257.7	1704.1	2261.8	3113.8	4285.7	4775.1	4892.1
22.5°	520.6	563.5	686.3	959.3	1429.2	2103.8	3279.6	4841.4	5404.9	5574.6
25°	452.3	475.8	534.2	756.5	1255.7	2088.3	3544.8	5508.2	6243.3	6366.2
27.5°	436.8	440.7	491.3	694.1	1162.1	1984.9	3646.2	5982.0	6765.9	6890.6
30°	460.2	522.6	526.5	586.9	988.5	1780.2	3698.8	6440.3	7208.5	7300.1
32.5°	397.8	378.3	391.9	454.3	869.6	1661.2	3798.3	6840.0	7713.5	7777.9
35°	276.9	290.5	321.7	393.8	760.4	1536.5	3823.6	7280.6	8193.2	8259.5
37.5°	255.4	263.2	288.5	335.4	668.8	1466.2	3788.5	7602.4	8690.4	8782.0
40°	237.9	247.7	261.3	304.2	600.6	1388.3	3739.8	7892.9	8994.6	9220.7
42.5°	224.3	232.0	243.7	290.5	542.1	1310.3	3671.5	8302.3	9267.5	9464.4
45°	208.7	220.3	234.0	282.7	508.9	1257.7	3620.8	8277.0	9425.4	9530.8
47.5°	193.0	212.5	228.2	263.2	499.2	1232.3	3642.3	8181.4	9296.7	9224.6
50°	177.4	202.8	230.0	218.4	475.8	1181.6	3667.7	8312.1	8990.6	8976.9
52.5°	163.8	193.0	214.5	179.4	423.1	1132.8	3913.3	8483.6	9207.1	9025.7
55°	144.3	173.5	171.6	144.3	343.2	1095.8	4106.3	8487.6	9060.8	9129.1
57.5°	130.6	154.0	134.5	120.9	253.5	916.4	3792.4	7116.8	7756.4	7877.3
60°	120.9	150.1	101.4	95.5	165.8	661.0	3310.8	5512.2	6165.3	6393.4
62.5°	111.1	142.3	79.9	78.0	115.0	469.9	2721.9	4613.3	5313.3	5623.3
65°	97.5	101.4	64.4	60.4	81.9	253.5	1657.4	3176.2	3971.8	4086.8
67.5°	79.9	78.0	52.6	48.8	54.6	122.9	731.2	1591.1	2302.7	2495.7
70°	64.4	64.4	44.9	39.0	39.0	56.5	191.1	633.7	1041.2	1152.3
72.5°	46.8	48.8	35.1	31.2	29.3	27.3	31.2	126.8	273.0	349.0
75°	41.0	42.9	35.1	27.3	21.5	17.5	13.6	11.7	15.6	25.4
77.5°	44.9	44.9	37.0	25.4	19.5	13.6	7.8	3.9	3.9	2.0
80°	56.5	58.5	48.8	33.1	23.4	15.6	9.8	3.9	2.0	2.0
82.5°	60.4	66.3	54.6	41.0	29.3	17.5	9.8	2.0	0.0	0.0
85°	15.6	25.4	42.9	37.0	29.3	17.5	9.8	2.0	0.0	0.0
87.5°	0.0	2.0	5.9	5.9	7.8	7.8	5.9	2.0	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

(END OF REPORT)