

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: P651956

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651956
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16378.5 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

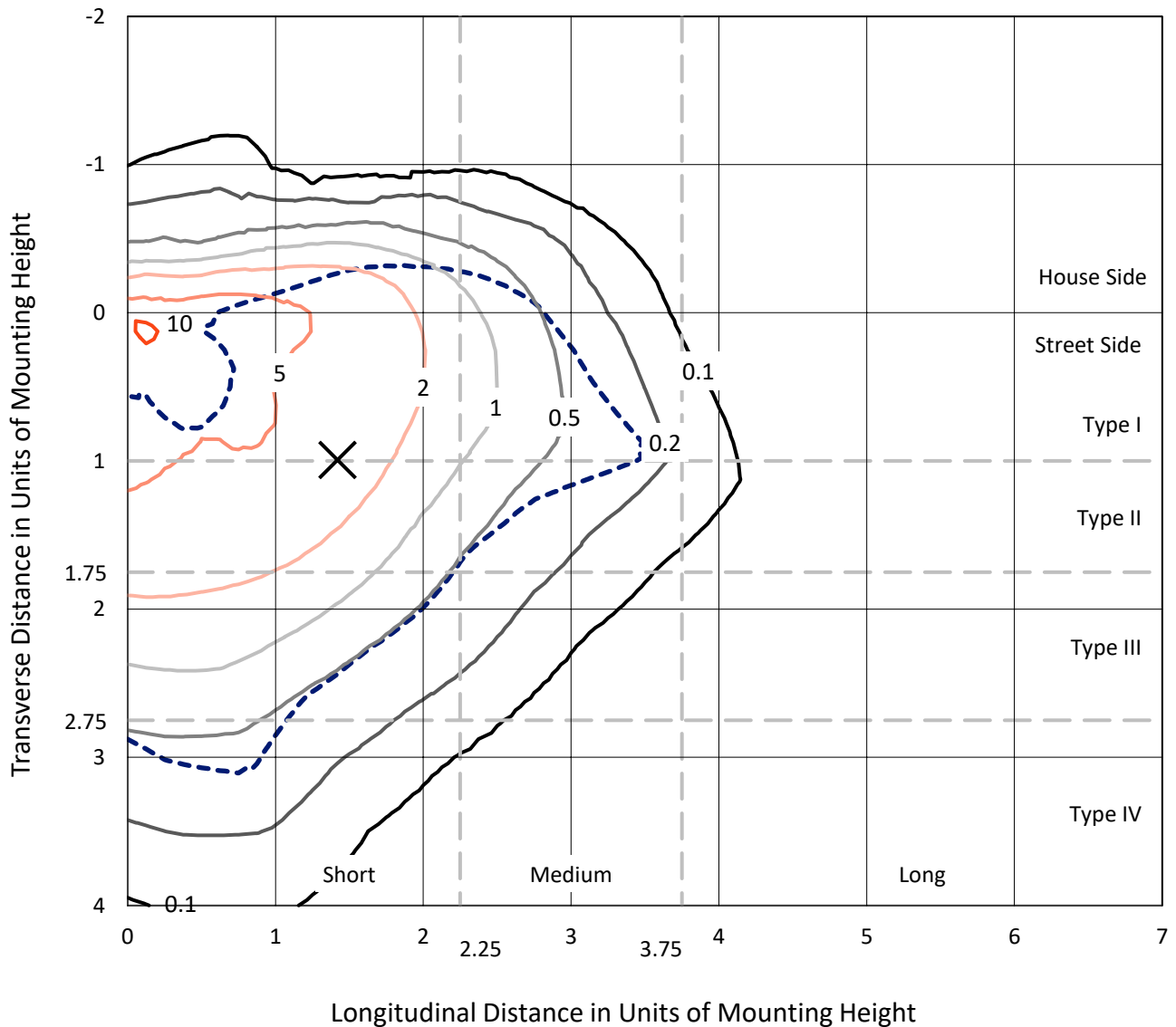
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

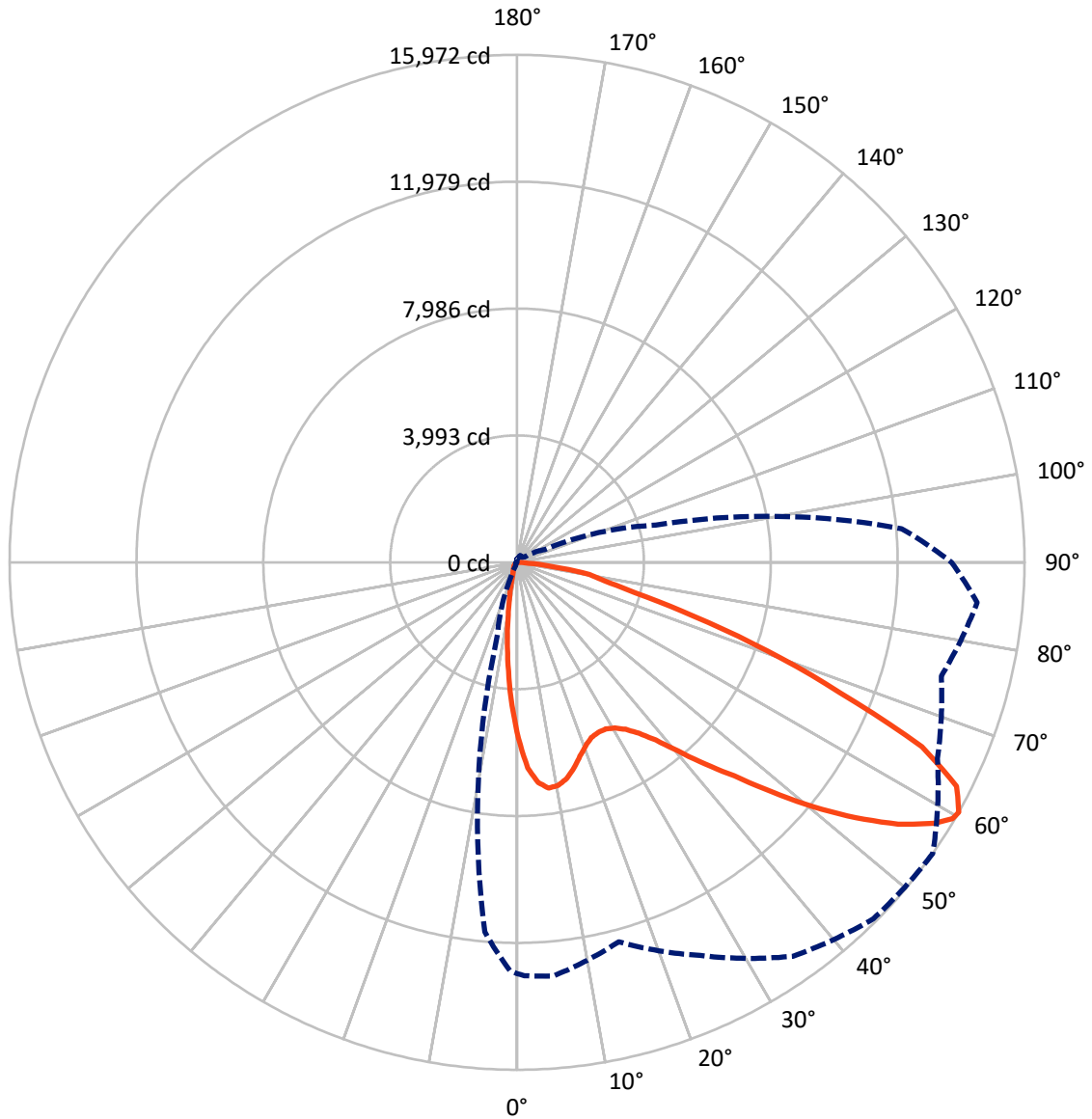
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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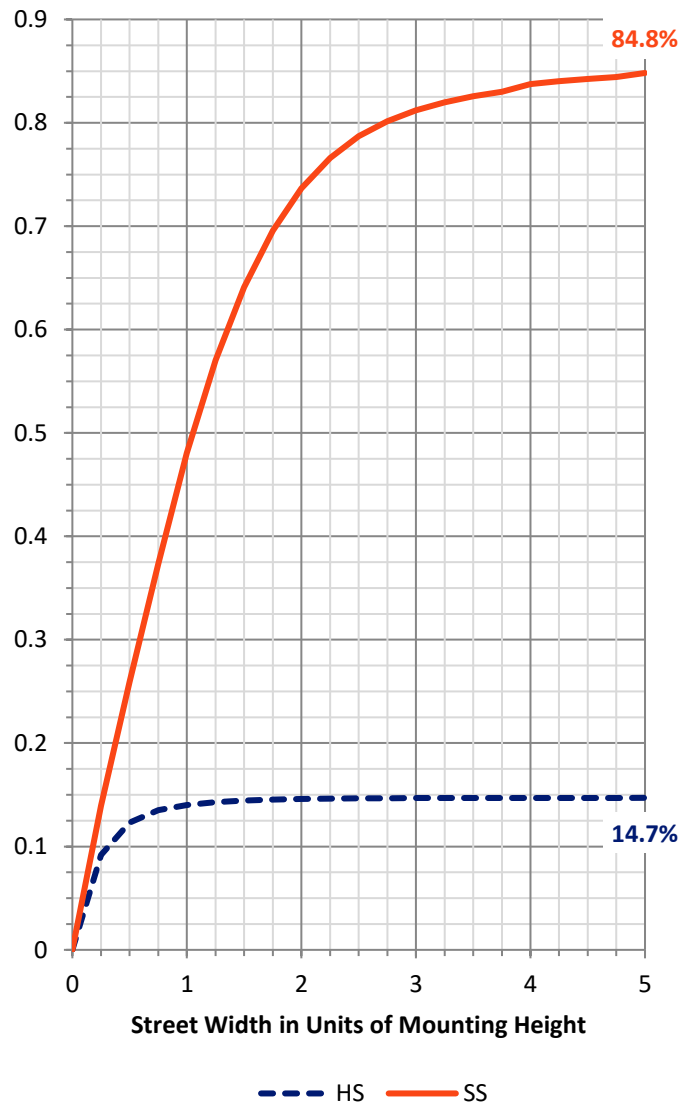
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2430.7	0.0	2430.7
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	13947.8	0.0	13947.8
	% Fixture	85.2	0.0	85.2
Total	Lumens	16378.5	0.0	16378.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.7	2.5
10°-20°	808.7	4.9
20°-30°	1197.0	7.3
30°-40°	1784.3	10.9
40°-50°	2613.1	16.0
50°-60°	3772.5	23.0
60°-70°	3968.5	24.2
70°-80°	1632.5	10.0
80°-90°	191.2	1.2
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°	16378.5	100.0
0°-180°	16378.5	100.0

Coefficient of Utilization

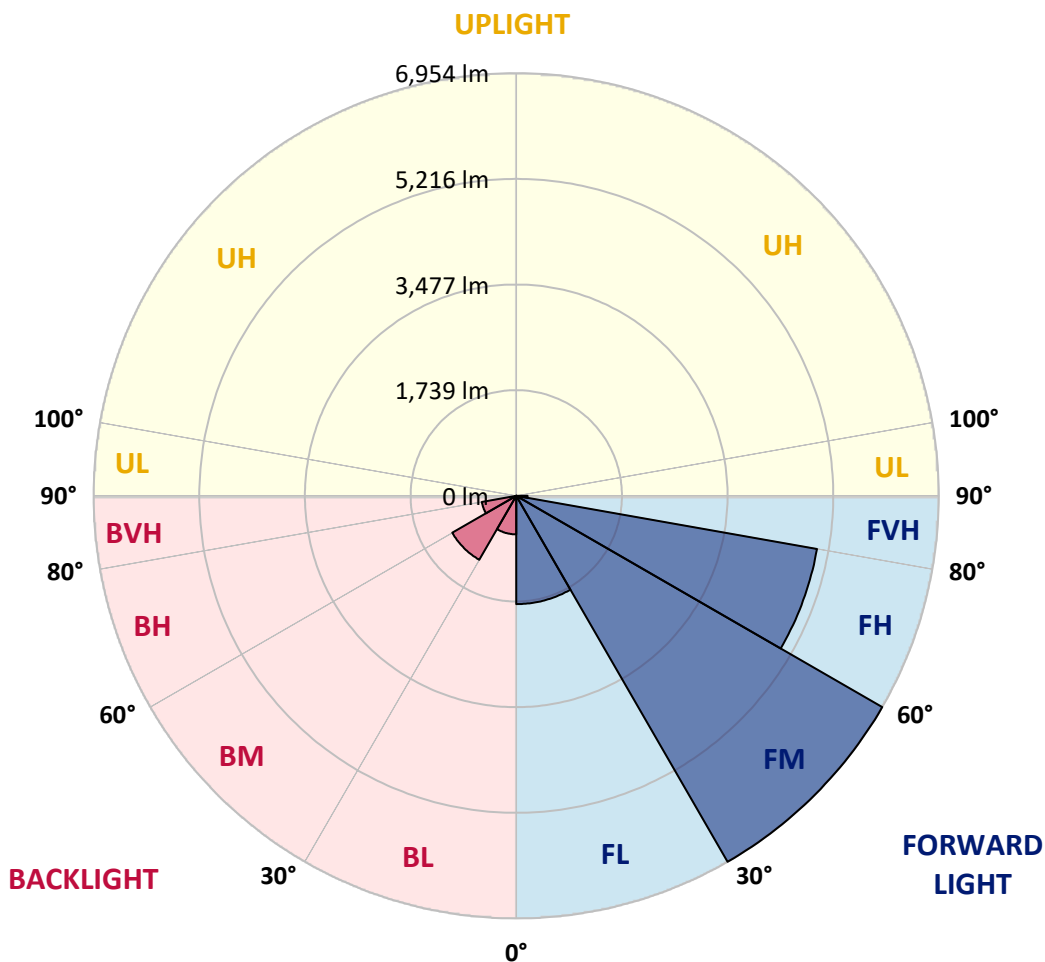


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1782.2	10.9			
FM (30°-60°)	6954.3	42.5			
FH (60°-80°)	5025.7	30.7			G3/7500
FVH (80°-90°)	185.6	1.1			G2/225
BL (0°-30°)	634.2	3.9	B2/1000		
BM (30°-60°)	1215.6	7.4	B2/2500		
BH (60°-80°)	575.3	3.5	B2/1000		G2/1000
BVH (80°-90°)	5.6	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-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5545.7	5545.7	5545.7	5545.7	5545.7	5545.7	5545.7	5545.7	5545.7	5545.7	5545.7
2.5°	6058.8	6048.7	6138.2	6284.5	6432.0	6508.8	6493.7	6487.4	6365.1	6275.6	6087.8
5°	6046.2	6097.9	6258.0	6653.8	6953.9	7098.9	7141.7	6961.5	6723.2	6377.7	5951.7
7.5°	5684.4	5748.7	6009.6	6628.6	7161.9	7477.1	7465.7	7177.0	6685.4	6150.8	5543.2
10°	5235.6	5311.3	5617.5	6368.9	7061.0	7477.1	7499.8	7134.1	6522.7	5837.0	5197.8
12.5°	4919.2	5008.7	5347.8	6126.9	6801.3	7211.1	7237.6	6972.8	6400.4	5715.9	5009.9
15°	4812.0	4896.5	5240.6	6004.6	6525.2	6745.8	6739.6	6711.9	6352.6	5744.9	5020.0
17.5°	4996.0	5065.4	5453.7	6060.1	6266.8	6244.1	6276.9	6410.5	6362.6	5988.2	5337.7
20°	5471.3	5541.9	5959.2	6230.2	6068.9	5925.2	5940.3	6163.4	6455.9	6445.8	5834.4
22.5°	6125.6	6245.4	6623.5	6560.6	6042.4	5727.2	5695.8	5985.6	6614.7	6972.8	6505.1
25°	6953.9	7074.9	7369.9	7087.5	6172.3	5680.6	5651.6	5931.5	6807.6	7487.2	7260.2
27.5°	7649.7	7741.8	8035.5	7600.6	6363.8	5700.8	5652.9	5939.1	6964.0	7924.6	7896.9
30°	8207.0	8275.1	8447.8	7840.1	6529.0	5789.0	5733.5	6050.0	7033.3	8137.7	8412.4
32.5°	8655.8	8770.5	8824.7	8096.1	6766.0	5955.5	5860.8	6263.0	7202.2	8401.2	8953.3
35°	9168.9	9301.3	9231.9	8340.6	7078.7	6215.2	6099.2	6608.5	7458.2	8644.5	9581.1
37.5°	9819.4	9971.9	9700.9	8597.8	7409.0	6606.0	6551.7	7093.8	7846.4	8992.4	10254.3
40°	10492.6	10580.9	10156.0	8910.5	7814.9	7174.5	7226.2	7814.9	8354.5	9409.7	10970.4
42.5°	11018.3	11101.5	10623.7	9172.7	8229.7	7849.0	8064.5	8684.8	8936.9	9837.0	11504.9
45°	11420.4	11491.1	10947.7	9458.8	8789.5	8826.0	9233.2	9581.1	9520.6	10098.0	11917.1
47.5°	11733.1	11793.6	11197.3	9766.4	9627.8	10021.1	10643.9	10791.4	10125.7	10380.4	12290.3
50°	11861.7	11879.3	11275.5	10158.5	10579.6	11544.0	12193.2	12103.8	10819.1	10694.3	12687.4
52.5°	12029.3	12025.5	11498.6	10531.7	11474.7	12905.5	13553.5	13350.5	11603.3	11164.5	13133.7
55°	12469.3	12474.4	11976.4	11061.2	12237.4	14004.8	14698.2	14550.7	12430.2	11958.8	13654.4
57.5°	13003.9	13022.8	12655.9	11680.1	12966.0	14801.6	15552.9	15496.2	13548.4	12842.5	14146.0
59°	13073.2	13111.0	12977.4	12116.4	13398.5	15046.2	15845.4	15900.9	14147.3	13424.9	14412.0
60°	12947.1	13010.2	13070.7	12363.5	13651.9	15134.4	15863.0	15971.5	14597.3	13820.7	14533.1
62.5°	12397.4	12497.1	12800.9	13123.6	13968.3	14859.5	15299.6	15526.5	15154.6	14860.8	14544.4
65°	11677.6	11729.3	12168.0	13258.5	13354.3	13576.2	13712.3	14003.6	14485.1	15261.7	14023.8
67.5°	10497.6	10650.2	11187.2	12475.6	11542.7	11280.5	11246.4	10956.5	12207.1	14306.2	12740.4
70°	8672.1	8740.3	9402.1	10227.8	8711.2	8307.8	8469.2	8360.8	9462.6	12315.5	10254.3
72.5°	6558.0	6711.9	7358.6	8152.8	5927.7	5404.5	5849.5	5809.2	7107.7	9897.6	7044.6
75°	4665.8	4765.4	5589.8	6380.2	4151.4	3517.3	3677.4	3827.4	4962.0	7814.9	4162.8
77.5°	3205.9	3291.6	3910.6	4219.5	3028.1	2900.8	2653.7	2798.7	3251.3	4636.8	2265.4
80°	1933.9	1930.1	2337.3	2412.9	2109.1	2449.5	2054.9	2307.0	1965.4	1984.3	877.4
82.5°	1255.6	1243.0	1429.6	1558.2	1173.7	1234.2	828.3	1193.9	1280.8	553.5	277.4
85°	562.3	586.2	687.1	906.4	514.4	273.6	169.0	366.8	545.9	278.6	0.0
87.5°	58.0	45.4	121.0	220.6	70.6	7.6	25.2	12.6	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°	5545.7	5545.7	5545.7	5545.7	5545.7	5545.7	5545.7	5545.7	5545.7	5545.7	5545.7
2.5°	6000.8	5927.7	5709.6	5505.4	5330.1	5115.8	4977.1	4759.1	4626.7	4586.3	4592.6
5°	5760.0	5549.5	5134.7	4803.2	4433.8	4223.2	3903.1	3595.4	3429.0	3367.3	3339.5
7.5°	5255.7	5030.1	4529.6	4009.0	3613.1	3243.7	3005.5	2734.4	2549.1	2396.5	2370.1
10°	4881.3	4585.0	3964.8	3405.0	3092.4	2815.1	2576.8	2305.8	2087.7	1913.7	1865.8
12.5°	4657.0	4325.3	3633.3	3164.3	2868.1	2583.1	2273.0	1959.1	1735.9	1548.1	1461.2
15°	4616.6	4232.1	3539.9	2991.6	2626.0	2281.8	1869.5	1530.5	1301.0	1123.2	1069.1
17.5°	4859.9	4399.8	3526.1	2811.3	2309.6	1821.7	1393.0	1111.9	853.4	753.9	714.8
20°	5293.6	4696.0	3524.9	2602.1	1984.3	1403.1	978.3	724.9	620.2	572.4	549.7
22.5°	5884.8	5099.4	3591.7	2421.7	1646.4	1035.0	698.5	577.4	516.9	477.8	468.9
25°	6607.2	5697.0	3755.6	2299.5	1388.0	811.9	576.2	494.2	443.8	426.1	418.6
27.5°	7248.9	6269.3	3935.8	2173.4	1202.7	718.6	534.5	452.5	412.3	398.4	387.0
30°	7802.3	6788.7	4022.8	2007.0	1053.9	658.1	542.1	484.1	431.2	389.6	370.6
32.5°	8263.8	7187.1	4079.5	1855.8	927.9	538.3	428.7	374.4	350.4	335.3	322.7
35°	8841.1	7618.3	4045.5	1770.0	863.5	490.4	390.8	322.7	282.4	252.1	239.5
37.5°	9446.2	8049.4	3986.3	1699.4	834.6	455.1	371.9	306.4	262.2	230.7	214.3
40°	10072.8	8449.0	3916.9	1633.8	808.1	432.4	360.5	292.5	248.3	214.3	196.6
42.5°	10646.4	8838.6	3889.2	1591.0	765.2	436.2	351.7	286.2	234.5	199.1	184.1
45°	11110.3	9207.9	3927.0	1568.3	718.6	429.9	354.2	278.6	223.1	189.1	174.0
47.5°	11605.8	9729.9	4049.2	1545.6	673.2	399.6	373.2	277.4	218.1	182.8	166.4
50°	12181.9	10398.0	4329.1	1490.1	617.7	366.8	397.1	276.1	211.8	175.3	158.9
52.5°	12949.6	11157.0	4617.8	1393.0	537.1	335.3	379.5	272.3	199.1	166.4	150.0
55°	13639.3	11956.2	4862.4	1278.3	435.0	290.0	341.6	255.9	177.8	151.3	136.2
57.5°	13924.2	12407.5	4854.8	1119.5	347.9	254.7	281.1	234.5	155.1	133.6	121.0
59°	13819.5	12350.8	4692.2	1002.2	317.7	235.7	233.2	231.9	145.0	121.0	110.9
60°	13672.1	12144.0	4517.0	944.3	298.8	223.1	214.3	229.4	136.2	113.5	103.4
62.5°	13107.2	11286.8	3935.8	845.9	273.6	189.1	171.5	194.1	121.0	98.3	89.5
65°	12289.0	9969.4	3332.0	818.2	266.0	156.3	142.5	138.7	103.4	83.2	75.6
67.5°	10693.1	8436.4	2699.1	799.3	268.5	131.1	124.8	104.6	85.7	69.3	64.3
70°	8561.2	6578.2	2210.0	777.8	271.1	107.1	104.6	83.2	69.3	58.0	53.0
72.5°	5201.5	3899.3	1739.7	675.7	263.5	85.7	93.3	63.1	50.5	41.6	39.1
75°	3216.0	2668.8	1079.2	525.7	174.0	63.1	65.5	39.1	34.1	26.5	26.5
77.5°	1863.2	1685.5	385.8	189.1	76.9	37.8	29.0	20.2	18.9	11.4	11.4
80°	772.8	619.0	133.6	64.3	41.6	17.7	6.3	1.3	0.0	0.0	0.0
82.5°	225.6	200.4	36.6	29.0	12.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	5545.7	5545.7	5545.7	5545.7	5545.7	5545.7	5545.7	5545.7	5545.7	5545.7	5545.7
2.5°	4485.5	4443.8	4425.0	4489.3	4430.1	4505.7	4447.6	4472.9	4547.3	4580.0	4664.5
5°	3357.2	3314.3	3294.1	3391.2	3386.2	3434.1	3429.0	3473.2	3511.0	3426.5	3513.5
7.5°	2338.6	2309.6	2357.5	2433.1	2513.7	2487.3	2487.3	2428.1	2448.2	2435.6	2431.8
10°	1778.8	1679.2	1654.0	1651.5	1681.7	1688.1	1654.0	1572.1	1602.4	1611.1	1664.1
12.5°	1399.3	1322.5	1205.2	1152.3	1138.4	1149.7	1037.5	965.6	999.7	979.5	1031.2
15°	1003.5	940.5	871.1	811.9	795.5	772.8	650.5	564.8	554.7	558.5	567.3
17.5°	716.0	673.2	673.2	610.1	576.2	508.0	446.3	408.5	404.7	408.5	414.8
20°	528.2	505.5	503.0	486.6	448.8	403.4	360.5	353.0	350.4	356.8	359.3
22.5°	455.1	431.2	411.0	409.7	374.4	336.6	316.5	306.4	307.6	310.2	316.5
25°	407.2	382.0	360.5	347.9	322.7	296.3	277.4	272.3	272.3	276.1	277.4
27.5°	373.2	341.6	322.7	305.1	282.4	259.7	243.3	239.5	237.0	239.5	245.8
30°	349.2	317.7	293.8	267.3	249.6	228.2	214.3	209.2	208.0	209.2	214.3
32.5°	298.8	279.9	261.0	237.0	215.5	201.7	186.6	177.8	177.8	180.3	185.4
35°	225.6	215.5	214.3	208.0	190.4	175.3	157.6	148.8	148.8	153.8	156.3
37.5°	199.1	180.3	177.8	175.3	167.7	147.5	131.1	123.5	122.3	126.1	131.1
40°	181.6	160.1	148.8	146.2	147.5	124.8	107.1	99.6	99.6	100.8	105.9
42.5°	167.7	142.5	122.3	119.8	124.8	104.6	87.0	79.4	79.4	79.4	85.7
45°	156.3	127.3	103.4	90.7	98.3	85.7	70.6	63.1	60.6	63.1	65.5
47.5°	148.8	116.0	90.7	73.1	73.1	68.0	56.8	47.9	45.4	46.7	50.5
50°	142.5	105.9	76.9	59.3	53.0	54.2	42.9	36.6	34.1	34.1	37.8
52.5°	132.4	95.8	66.8	50.5	40.4	36.6	31.5	26.5	25.2	26.5	29.0
55°	119.8	87.0	58.0	41.6	31.5	25.2	22.7	18.9	17.7	18.9	22.7
57.5°	105.9	73.1	46.7	32.8	21.4	16.4	15.1	12.6	10.1	11.4	13.9
59°	97.1	65.5	40.4	26.5	16.4	11.4	11.4	8.8	6.3	7.6	11.4
60°	93.3	60.6	34.1	22.7	13.9	8.8	8.8	6.3	3.8	5.0	8.8
62.5°	79.4	50.5	26.5	13.9	6.3	1.3	3.8	1.3	0.0	1.3	3.8
65°	66.8	40.4	17.7	6.3	0.0	0.0	0.0	0.0	0.0	0.0	1.3
67.5°	55.5	30.3	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	44.2	20.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	30.3	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	18.9	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5545.7	5545.7	5545.7	5545.7	5545.7	5545.7	5545.7	5545.7	5545.7	5545.7
2.5°	4669.6	4849.8	4960.7	5170.0	5384.3	5549.5	5756.2	5941.6	6018.4	6058.8
5°	3601.8	3852.6	4065.6	4384.6	4680.9	5041.5	5407.0	5838.2	6003.3	6046.2
7.5°	2527.6	2783.5	3006.7	3376.1	3798.4	4281.3	4828.3	5375.5	5616.3	5684.4
10°	1825.5	2099.1	2371.4	2740.7	3135.3	3658.5	4228.3	4905.3	5182.7	5235.6
12.5°	1152.3	1446.0	1888.5	2344.9	2762.1	3183.2	3779.5	4515.7	4822.0	4919.2
15°	668.2	887.5	1221.6	1816.6	2347.4	2904.6	3555.1	4369.5	4712.4	4812.0
17.5°	447.6	523.2	752.6	1207.8	1908.6	2647.4	3498.4	4489.3	4868.7	4996.0
20°	376.9	411.0	491.6	736.2	1470.0	2418.0	3513.5	4814.6	5312.5	5471.3
22.5°	331.5	363.1	414.8	529.5	1026.2	2133.0	3585.4	5279.7	5922.7	6125.6
25°	292.5	324.0	369.4	438.7	689.6	1804.0	3743.0	5960.5	6730.8	6953.9
27.5°	259.7	288.7	327.7	387.0	530.8	1437.2	3882.9	6623.5	7468.2	7649.7
30°	229.4	253.4	291.2	336.6	441.3	1108.1	3953.5	7203.5	8005.3	8207.0
32.5°	199.1	221.9	258.4	295.0	363.1	844.6	3904.3	7629.6	8527.2	8655.8
35°	170.2	194.1	224.4	258.4	313.9	682.1	3658.5	8108.7	9068.0	9168.9
37.5°	146.2	166.4	197.9	224.4	283.7	545.9	3361.0	8539.8	9674.4	9819.4
40°	123.5	143.7	175.3	199.1	261.0	429.9	3092.4	9018.9	10313.6	10492.6
42.5°	100.8	124.8	152.6	191.7	224.4	327.7	2767.1	9407.2	10793.9	11018.3
45°	80.7	107.1	137.4	190.4	195.4	249.6	2453.3	9709.7	11218.8	11420.4
47.5°	64.3	90.7	132.4	177.8	160.1	197.9	2274.2	10026.1	11571.7	11733.1
50°	51.7	75.6	138.7	156.3	133.6	167.7	2269.2	10379.1	11754.5	11861.7
52.5°	41.6	61.8	117.2	119.8	113.5	147.5	2405.3	10776.2	11941.1	12029.3
55°	35.3	51.7	76.9	88.2	102.1	133.6	2507.4	11387.6	12386.2	12469.3
57.5°	27.8	44.2	59.3	70.6	90.7	122.3	2521.3	11859.2	12949.6	13003.9
59°	24.0	37.8	53.0	63.1	83.2	114.7	2464.6	11888.1	12986.2	13073.2
60°	20.2	34.1	46.7	59.3	76.9	108.4	2402.8	11677.6	12850.1	12947.1
62.5°	15.1	26.5	34.1	47.9	63.1	93.3	2110.4	10942.7	12329.4	12397.4
65°	10.1	18.9	25.2	35.3	49.2	80.7	1719.6	9989.6	11525.1	11677.6
67.5°	6.3	13.9	20.2	26.5	40.4	68.0	1225.3	8566.3	10399.3	10497.6
70°	3.8	8.8	15.1	21.4	31.5	54.2	727.4	6771.1	8652.0	8672.1
72.5°	2.5	6.3	10.1	15.1	25.2	49.2	353.0	4413.7	6317.3	6558.0
75°	1.3	3.8	6.3	11.4	20.2	40.4	169.0	2948.7	4596.4	4665.8
77.5°	0.0	1.3	3.8	7.6	15.1	31.5	98.3	1936.4	3134.1	3205.9
80°	0.0	0.0	2.5	6.3	11.4	20.2	59.3	1142.2	1898.6	1933.9
82.5°	0.0	0.0	1.3	5.0	7.6	15.1	30.3	501.7	1243.0	1255.6
85°	0.0	0.0	1.3	5.0	6.3	10.1	11.4	68.0	552.2	562.3
87.5°	0.0	0.0	1.3	6.3	6.3	6.3	6.3	3.8	46.7	58.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)