

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: P652232

Luminaire Tested: **GALN-SA2B-840-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-840-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8294.8 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

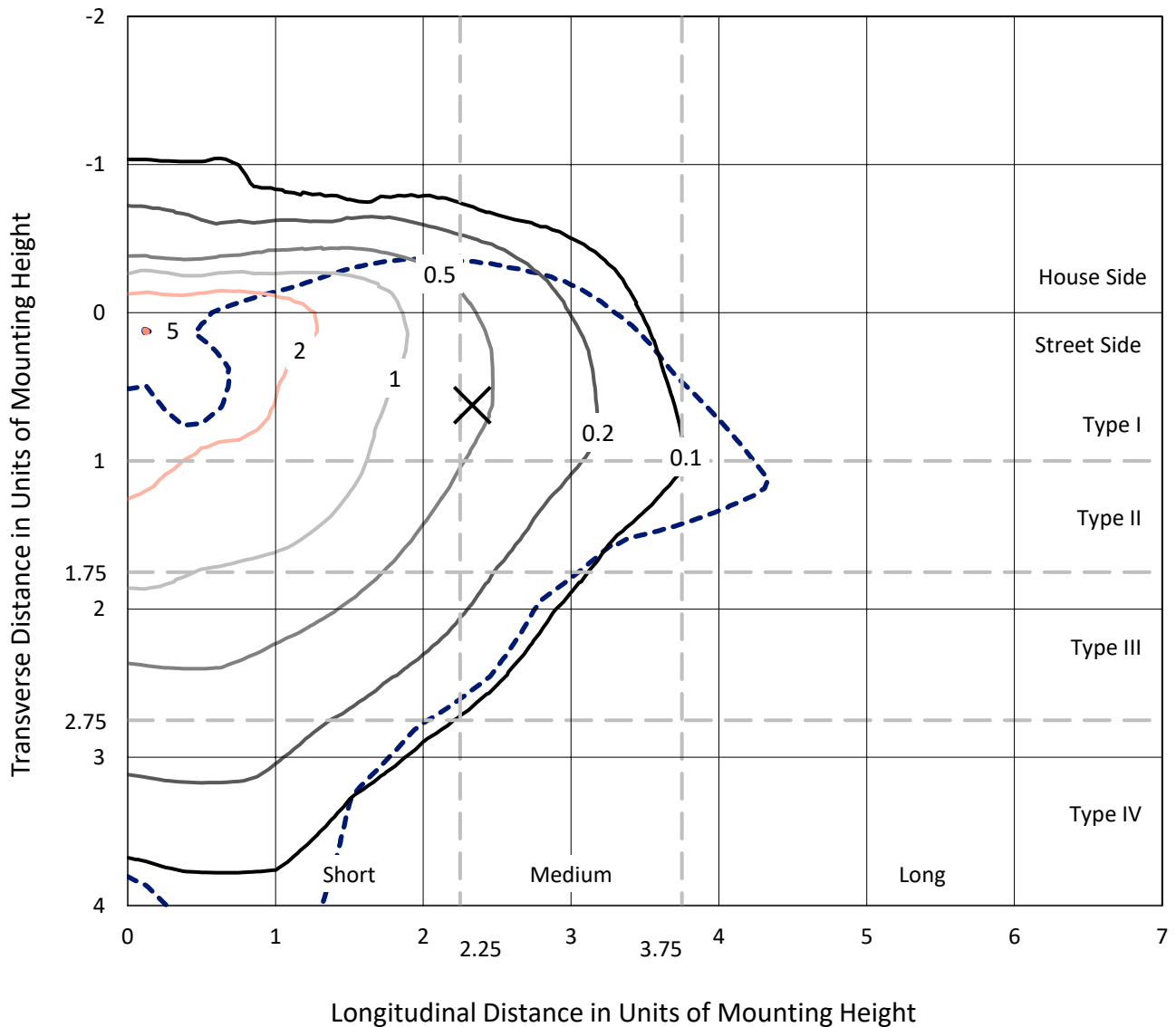
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

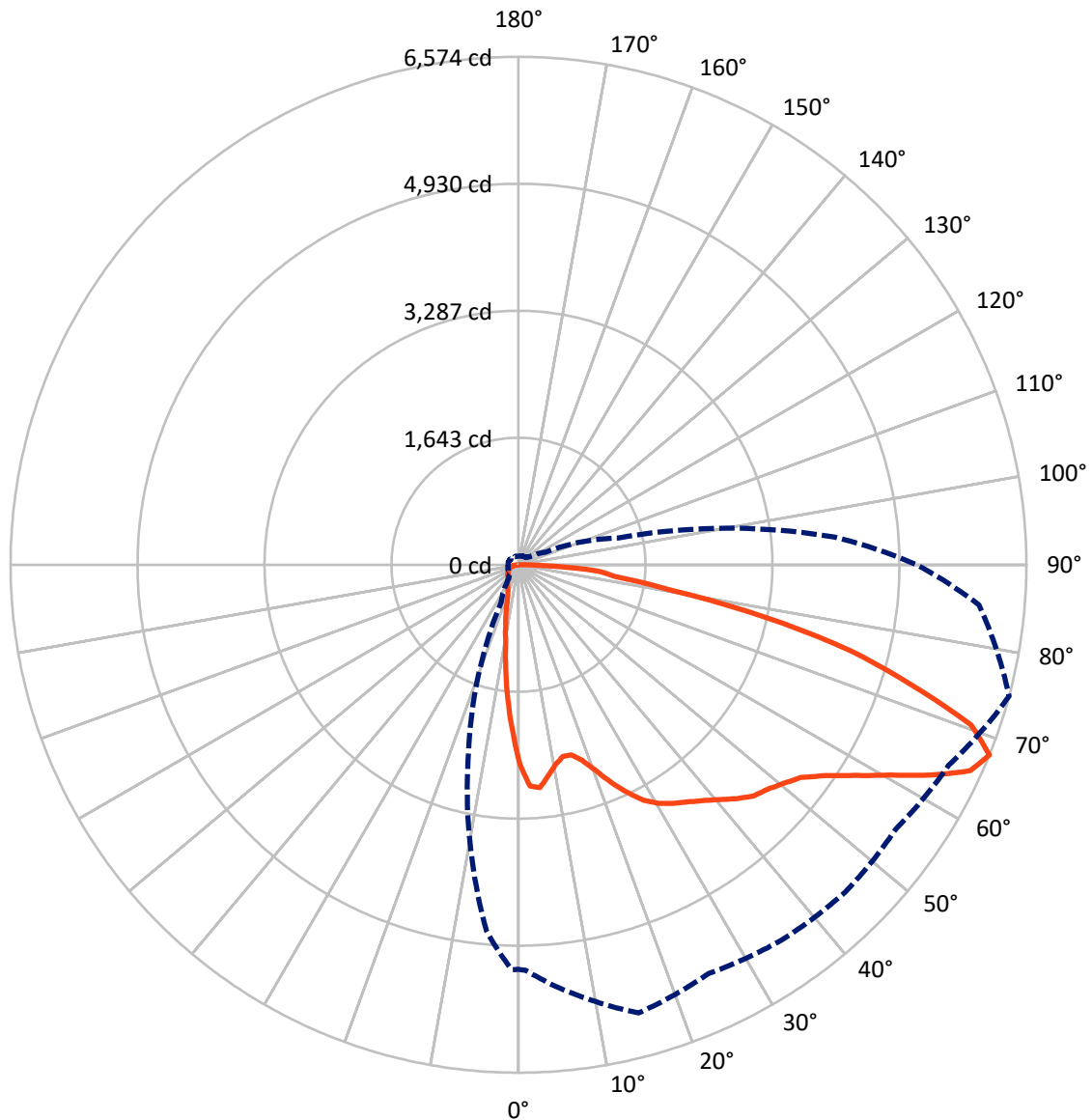
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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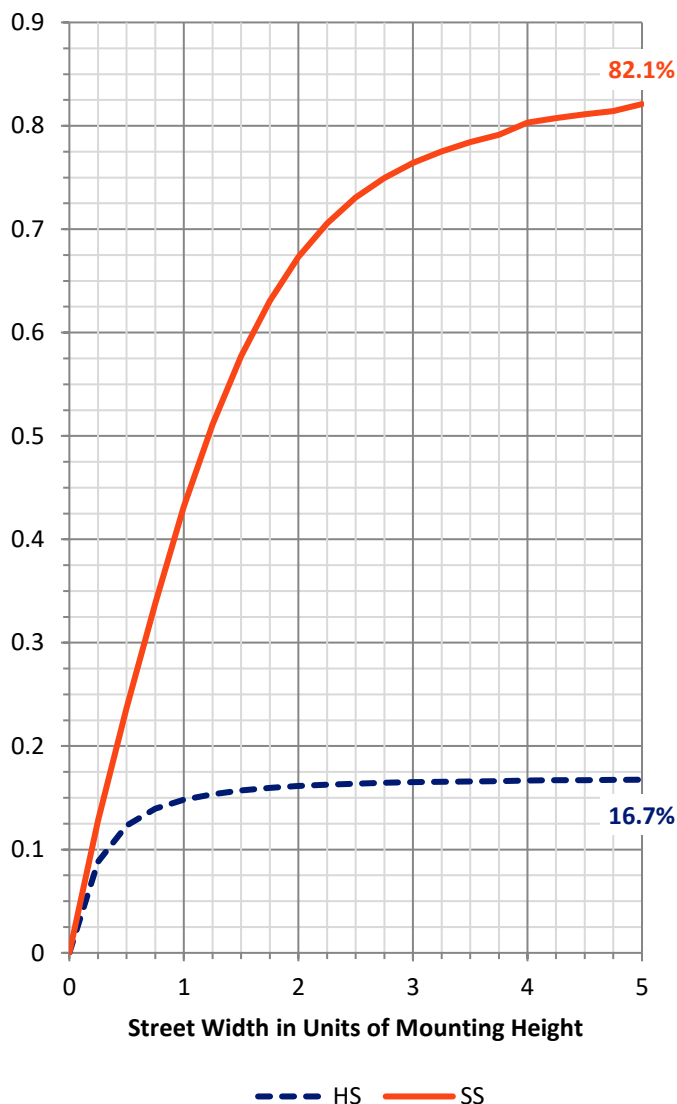
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1402.0	0.0	1402.0
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	6892.8	0.0	6892.8
	% Fixture	83.1	0.0	83.1
Total	Lumens	8294.8	0.0	8294.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.6	2.4
10°-20°	409.9	4.9
20°-30°	589.9	7.1
30°-40°	849.6	10.2
40°-50°	1193.5	14.4
50°-60°	1664.5	20.1
60°-70°	1978.9	23.9
70°-80°	1165.5	14.1
80°-90°	246.5	3.0
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°	8294.8	100.0
0°-180°	8294.8	100.0

Coefficient of Utilization

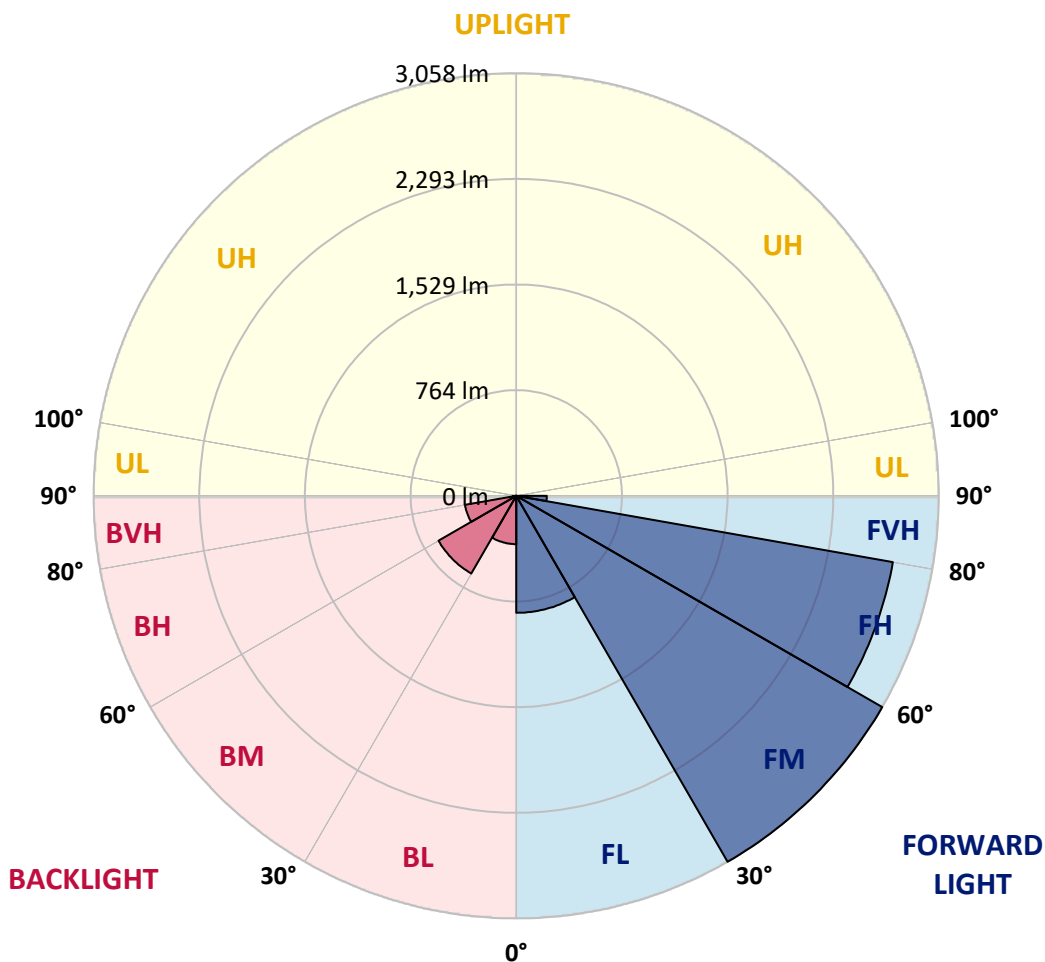


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	846.7	10.2			
FM (30°-60°)	3058.0	36.9			
FH (60°-80°)	2767.2	33.4			G2/5000
FVH (80°-90°)	221.0	2.7			G2/225
BL (0°-30°)	349.7	4.2	B1/500		
BM (30°-60°)	649.5	7.8	B1/1000		
BH (60°-80°)	377.3	4.5	B1/500		G1/500
BVH (80°-90°)	25.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5
2.5°	2794.1	2797.8	2821.8	2891.5	2939.4	2956.9	2969.2	2946.3	2923.9	2869.7	2787.7
5°	2785.6	2807.4	2869.7	3026.1	3149.5	3202.7	3218.6	3150.0	3036.7	2897.3	2729.8
7.5°	2622.9	2652.1	2747.9	3010.1	3227.7	3352.1	3335.7	3211.7	3007.4	2759.1	2525.0
10°	2429.8	2462.2	2577.7	2894.6	3175.0	3346.3	3346.3	3195.2	2923.9	2628.7	2359.0
12.5°	2276.6	2310.6	2442.5	2776.1	3065.4	3227.7	3254.8	3125.0	2863.9	2546.3	2250.0
15°	2226.0	2259.0	2401.1	2704.2	2949.5	3048.4	3057.5	3014.9	2834.6	2552.1	2245.2
17.5°	2288.9	2331.4	2475.0	2725.5	2843.1	2849.0	2855.9	2889.3	2837.8	2659.1	2342.0
20°	2470.2	2515.9	2666.0	2794.1	2750.0	2689.3	2693.1	2779.3	2875.5	2835.6	2573.4
22.5°	2731.9	2771.8	2925.5	2914.9	2710.6	2585.7	2559.6	2679.8	2931.4	3055.9	2819.7
25°	3014.4	3061.2	3237.8	3094.1	2721.8	2523.9	2507.4	2621.3	2989.3	3261.7	3104.2
27.5°	3337.8	3383.5	3522.9	3275.0	2780.3	2519.1	2499.5	2615.9	3041.5	3452.1	3376.0
30°	3578.2	3620.2	3714.9	3427.2	2852.1	2551.1	2526.6	2658.0	3086.1	3582.4	3640.9
32.5°	3767.0	3810.7	3862.2	3521.8	2946.8	2609.0	2563.8	2734.6	3144.7	3681.9	3837.2
35°	3963.8	4015.4	4011.7	3605.9	3035.1	2676.1	2631.9	2845.2	3236.7	3768.6	4086.2
37.5°	4213.3	4234.0	4207.4	3681.4	3141.0	2796.8	2772.4	3009.6	3367.5	3873.4	4377.2
40°	4466.5	4508.0	4371.3	3772.9	3269.6	3023.9	3021.3	3252.7	3522.9	3996.3	4659.1
42.5°	4683.5	4718.6	4524.5	3852.6	3425.6	3301.1	3321.3	3578.7	3726.6	4138.8	4885.6
45°	4846.8	4878.2	4666.0	3929.8	3630.8	3621.3	3740.4	3928.2	3983.5	4267.0	5018.6
47.5°	4985.6	5016.0	4764.3	4046.8	3884.6	4003.7	4211.1	4292.5	4203.1	4340.4	5167.5
50°	5102.7	5111.7	4831.9	4186.2	4199.4	4472.4	4673.4	4726.1	4420.2	4445.8	5296.8
52.5°	5224.5	5212.8	4948.4	4361.7	4539.9	4917.0	5063.3	5118.1	4628.2	4575.5	5485.1
55°	5497.4	5508.5	5209.6	4582.9	4884.0	5353.7	5546.3	5493.6	4858.5	4814.4	5724.4
57.5°	5827.1	5817.5	5577.1	4929.3	5234.6	5760.1	5903.7	5819.1	5165.9	5142.5	5967.0
60°	5955.3	5968.1	5884.6	5301.6	5580.3	6115.9	6262.8	6131.4	5534.5	5523.9	6150.0
62.5°	5826.6	5898.4	5954.8	5632.9	5875.0	6377.6	6523.4	6373.4	5919.1	5996.2	6278.1
65°	5570.2	5585.7	5777.7	5913.8	6017.0	6420.7	6496.8	6417.0	6240.4	6426.6	6272.3
67.5°	5237.2	5250.5	5475.5	6005.8	5834.0	5931.4	5984.6	5961.2	6141.0	6573.9	5983.5
70°	4920.2	4909.6	5147.3	5771.3	5078.7	4930.9	4975.0	4901.6	5298.9	6213.8	5417.0
72.5°	4303.1	4341.5	4596.8	5119.2	4021.2	3780.9	3877.1	3687.2	4075.5	5321.8	4396.8
75°	3370.7	3379.8	3805.9	4296.2	3033.5	2654.3	2784.6	2705.3	3121.8	4439.4	3036.2
77.5°	2334.0	2313.8	2771.8	3281.4	2163.3	1943.0	1945.2	1907.5	2179.8	3268.6	2062.8
80°	1482.4	1451.6	1735.1	2027.1	1486.7	1590.4	1538.3	1536.7	1419.2	2016.5	1247.4
82.5°	801.1	835.1	1096.2	1270.8	1066.5	1229.3	1126.6	1093.6	974.0	1262.3	797.9
85°	364.9	396.8	584.6	864.4	810.1	819.1	547.3	645.7	805.8	1025.0	426.1
87.5°	35.7	45.8	120.8	408.0	276.6	218.1	81.4	156.9	202.7	364.3	34.1
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°	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5
2.5°	2754.3	2726.6	2632.4	2554.8	2472.4	2409.5	2327.6	2272.9	2235.1	2178.2	2171.3
5°	2627.6	2560.1	2396.3	2229.2	2085.1	1976.6	1866.5	1765.4	1705.9	1687.2	1663.3
7.5°	2414.3	2300.6	2089.9	1898.4	1733.0	1571.2	1446.8	1358.5	1299.4	1264.9	1223.4
10°	2238.8	2106.9	1850.5	1616.0	1479.8	1379.2	1269.7	1175.0	1102.1	1039.9	1005.8
12.5°	2120.7	1971.8	1683.5	1493.1	1387.7	1280.8	1152.7	1046.3	938.8	868.1	837.8
15°	2085.1	1927.7	1631.9	1431.9	1280.8	1141.0	997.3	858.5	752.1	685.1	662.8
17.5°	2172.3	1981.9	1631.4	1350.6	1155.3	988.3	804.2	674.0	564.9	514.9	499.0
20°	2335.1	2086.2	1636.2	1270.2	1019.1	784.1	585.1	478.2	426.1	404.8	396.8
22.5°	2562.2	2245.2	1650.5	1190.9	870.2	602.2	438.3	384.0	365.4	361.7	360.1
25°	2842.0	2442.0	1698.9	1119.7	744.7	459.6	366.5	342.0	331.4	327.7	327.1
27.5°	3099.5	2696.2	1757.4	1058.5	623.4	396.3	331.4	310.7	300.0	299.5	300.6
30°	3331.9	2909.0	1806.4	989.9	531.3	352.1	308.5	287.8	277.7	277.1	280.3
32.5°	3533.0	3084.0	1842.5	922.3	480.3	325.0	287.8	265.4	256.9	255.3	256.9
35°	3747.8	3258.5	1826.1	869.7	451.0	302.7	272.3	250.5	240.4	235.6	235.6
37.5°	3993.1	3438.3	1797.9	826.0	437.7	284.0	259.0	237.8	227.7	222.9	222.4
40°	4260.7	3618.1	1759.0	787.3	424.5	272.9	250.0	227.7	215.5	210.7	209.6
42.5°	4496.8	3771.8	1727.2	761.7	402.7	275.0	242.0	220.2	204.8	198.4	197.9
45°	4702.1	3926.6	1721.3	746.8	384.6	271.8	239.9	214.4	196.3	189.4	188.3
47.5°	4862.7	4087.8	1754.7	738.3	364.9	254.8	253.7	210.7	188.8	181.4	180.3
50°	5058.5	4316.5	1831.4	720.7	346.8	238.8	268.1	210.1	183.0	173.4	170.7
52.5°	5319.2	4614.3	1935.1	689.4	320.8	224.0	255.8	210.1	176.1	166.5	163.3
55°	5713.3	4994.1	2036.7	645.2	284.0	204.3	230.9	203.7	165.9	157.4	155.3
57.5°	5974.5	5271.8	2101.6	584.1	238.3	189.9	198.9	193.6	155.8	146.8	146.8
60°	5987.8	5346.2	2070.7	507.0	209.6	176.6	172.9	195.2	146.8	137.3	136.2
62.5°	5834.6	5163.8	1910.1	437.7	194.2	162.2	156.3	171.3	137.8	128.2	126.6
65°	5595.2	4698.4	1631.4	404.8	185.6	149.4	141.0	140.4	128.2	119.2	117.0
67.5°	5155.3	4105.8	1340.4	385.6	181.4	135.1	127.2	124.5	117.0	109.6	108.5
70°	4506.9	3438.8	1075.0	377.7	179.2	120.2	113.9	110.7	104.3	98.4	97.9
72.5°	3506.4	2789.3	887.3	372.3	178.2	106.4	99.5	95.2	91.5	86.2	86.2
75°	2518.6	2052.1	677.1	335.6	164.9	91.5	84.0	81.4	76.0	71.8	72.8
77.5°	1587.7	1381.9	445.7	246.8	127.7	73.4	67.0	65.4	61.1	55.3	59.0
80°	1072.4	971.8	260.1	155.3	80.3	53.7	51.6	51.0	46.3	39.9	40.5
82.5°	729.8	715.9	135.1	88.3	46.3	31.4	30.4	31.4	26.1	21.3	21.3
85°	285.1	389.4	63.8	34.6	14.9	4.8	6.9	7.5	4.3	2.1	2.7
87.5°	5.3	39.9	1.6	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°	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5
2.5°	2160.6	2155.8	2163.8	2129.7	2136.7	2149.4	2155.8	2159.6	2212.3	2200.0	2233.5
5°	1685.6	1680.8	1711.7	1716.0	1731.9	1728.8	1744.1	1747.9	1767.0	1773.9	1820.8
7.5°	1226.1	1246.8	1281.9	1300.0	1327.1	1335.7	1327.7	1347.4	1307.4	1336.2	1344.7
10°	985.1	960.1	945.2	986.7	992.0	1031.4	1015.4	1002.6	1026.1	1027.1	1049.5
12.5°	820.2	766.5	730.8	742.5	755.3	772.4	775.0	800.5	817.5	833.5	846.8
15°	643.1	624.4	592.0	576.1	594.2	601.1	617.5	638.8	656.9	661.7	679.8
17.5°	493.6	496.8	491.5	481.9	493.1	498.4	499.5	500.0	504.8	501.6	528.2
20°	397.4	408.5	421.8	423.9	427.6	430.3	425.5	407.5	408.0	419.2	427.6
22.5°	359.6	361.7	376.6	381.4	393.1	388.3	374.5	365.9	364.9	367.5	371.8
25°	329.8	333.0	343.6	351.0	360.1	351.6	341.5	333.5	332.4	335.1	339.3
27.5°	303.2	308.0	317.6	325.0	333.5	325.6	316.0	309.1	308.5	308.0	310.7
30°	281.9	287.2	294.2	302.7	308.5	301.6	292.6	288.8	288.3	287.2	288.3
32.5°	260.6	269.1	276.1	280.3	286.2	280.8	273.9	271.8	268.1	264.9	263.3
35°	236.7	245.7	256.4	261.7	267.5	262.2	257.4	248.4	242.0	241.5	242.5
37.5°	222.9	226.6	235.1	244.1	250.0	247.3	238.3	229.3	227.7	227.7	228.8
40°	210.7	212.3	216.0	227.7	238.3	230.3	219.2	216.5	216.5	216.0	216.5
42.5°	198.4	200.0	200.0	209.1	226.1	213.3	204.8	204.8	204.8	205.3	206.9
45°	187.2	187.8	187.2	193.6	209.6	198.9	193.1	194.7	195.8	196.8	197.9
47.5°	177.6	178.2	177.6	183.0	191.0	186.7	183.5	185.6	187.8	189.4	190.4
50°	169.1	168.6	169.7	172.9	176.6	177.6	175.5	178.7	179.8	181.9	184.6
52.5°	161.7	161.1	162.2	163.8	169.1	169.1	169.1	171.8	173.9	176.1	179.8
55°	153.2	153.7	155.3	157.4	164.3	163.3	163.8	165.9	168.1	171.3	173.4
57.5°	145.2	146.2	148.4	151.6	158.5	157.9	158.5	159.5	162.2	163.8	165.9
60°	136.2	138.3	141.0	143.1	150.0	149.4	152.1	154.2	155.8	155.8	156.9
62.5°	127.2	130.4	133.0	134.6	142.0	142.5	146.2	147.8	148.9	147.8	149.4
65°	118.1	122.9	124.0	126.1	133.6	134.1	138.3	142.0	141.0	139.9	142.5
67.5°	109.1	114.9	114.4	117.0	124.5	125.6	129.3	135.7	133.6	132.5	134.6
70°	98.9	103.2	103.7	105.3	115.4	113.9	119.7	125.6	124.0	124.5	124.5
72.5°	87.8	91.5	91.5	94.7	105.3	102.7	107.5	113.9	113.9	113.3	113.3
75°	74.4	76.6	78.7	83.5	94.7	91.5	94.7	100.5	101.6	100.5	100.5
77.5°	60.1	63.3	64.3	70.7	78.7	78.2	81.4	84.0	86.2	85.1	85.1
80°	42.6	45.8	50.0	56.9	61.7	63.3	64.9	67.0	68.1	68.1	69.1
82.5°	24.0	28.8	32.5	39.4	41.5	49.5	48.9	50.5	48.9	43.1	47.9
85°	5.3	10.1	14.4	18.1	20.8	28.8	30.4	34.1	28.2	26.1	26.1
87.5°	0.0	0.0	0.0	0.0	0.0	4.3	8.5	11.7	10.1	8.5	8.5
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°	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5	2591.5
2.5°	2261.7	2308.0	2363.8	2460.1	2527.6	2600.5	2674.0	2752.1	2772.9	2794.1
5°	1833.5	1924.5	1973.9	2103.2	2238.8	2411.1	2552.1	2706.3	2770.8	2785.6
7.5°	1388.8	1450.6	1580.3	1711.2	1879.2	2060.1	2276.1	2516.5	2591.5	2622.9
10°	1101.0	1185.1	1298.9	1439.4	1586.7	1781.4	2025.0	2305.9	2412.2	2429.8
12.5°	937.2	1030.8	1154.8	1303.2	1442.6	1589.3	1835.1	2125.0	2238.8	2276.6
15°	749.5	862.8	1005.8	1162.3	1313.8	1474.4	1723.4	2050.5	2181.9	2226.0
17.5°	588.9	680.3	835.1	1004.8	1184.5	1387.7	1700.0	2086.2	2247.9	2288.9
20°	450.5	516.0	646.3	825.5	1036.2	1302.1	1705.9	2220.7	2414.3	2470.2
22.5°	389.4	422.9	502.2	672.9	908.5	1227.7	1729.8	2405.3	2638.8	2731.9
25°	352.6	370.2	414.9	526.6	786.7	1155.3	1784.6	2653.7	2952.7	3014.4
27.5°	321.3	334.0	361.7	442.0	676.1	1088.3	1848.4	2929.3	3245.8	3337.8
30°	291.5	308.5	334.5	392.6	605.4	1027.1	1928.7	3152.7	3492.6	3578.2
32.5°	268.6	285.6	309.6	358.0	545.2	962.8	1976.6	3348.9	3694.2	3767.0
35°	250.0	264.3	289.4	330.3	499.5	913.8	1967.0	3504.8	3889.4	3963.8
37.5°	236.7	248.9	273.9	304.3	464.9	862.8	1962.2	3710.7	4127.1	4213.3
40°	224.5	237.2	260.1	287.2	430.3	802.7	1964.9	3914.9	4380.3	4466.5
42.5°	214.9	229.3	247.8	282.4	394.7	754.3	1964.9	4092.6	4600.5	4683.5
45°	206.9	222.4	240.4	281.9	366.5	717.5	1951.6	4245.2	4776.0	4846.8
47.5°	200.0	217.1	243.0	272.3	359.6	691.0	1939.9	4367.6	4919.2	4985.6
50°	195.2	215.5	258.5	261.1	361.7	683.0	1996.3	4521.8	5045.2	5102.7
52.5°	191.5	216.0	258.0	244.6	358.0	688.3	2113.9	4762.8	5220.2	5224.5
55°	184.0	215.5	244.6	226.1	342.5	697.4	2264.9	5112.8	5494.2	5497.4
57.5°	176.6	209.6	227.2	210.1	311.2	697.4	2446.8	5444.1	5824.4	5827.1
60°	169.1	218.1	199.5	196.3	270.2	684.6	2638.8	5589.9	5928.2	5955.3
62.5°	161.7	219.7	178.2	184.0	240.4	653.7	2781.9	5428.7	5787.8	5826.6
65°	153.2	177.1	164.3	171.3	225.0	602.2	2736.7	5133.5	5523.9	5570.2
67.5°	143.1	150.0	149.4	157.9	219.7	526.0	2498.4	4760.1	5239.9	5237.2
70°	130.9	134.6	136.2	145.2	209.6	467.0	2081.9	4275.6	4860.6	4920.2
72.5°	118.1	121.3	122.9	130.9	199.5	433.5	1616.0	3608.0	4210.1	4303.1
75°	104.3	106.4	108.5	115.4	188.8	384.0	1151.1	2754.3	3224.5	3370.7
77.5°	89.9	89.9	92.6	99.5	159.0	317.1	772.4	1931.9	2184.6	2334.0
80°	72.8	73.4	72.3	79.8	117.0	217.1	438.8	1290.4	1453.8	1482.4
82.5°	55.8	54.2	54.7	58.5	87.2	147.8	234.1	801.6	817.0	801.1
85°	35.1	35.1	34.1	38.3	55.8	77.1	127.7	491.0	383.5	364.9
87.5°	14.4	11.7	13.3	15.4	26.6	31.4	50.0	101.1	38.9	35.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)