

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: P646901

Luminaire Tested: **GALN-SA4C-835-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-835-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18770.8 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

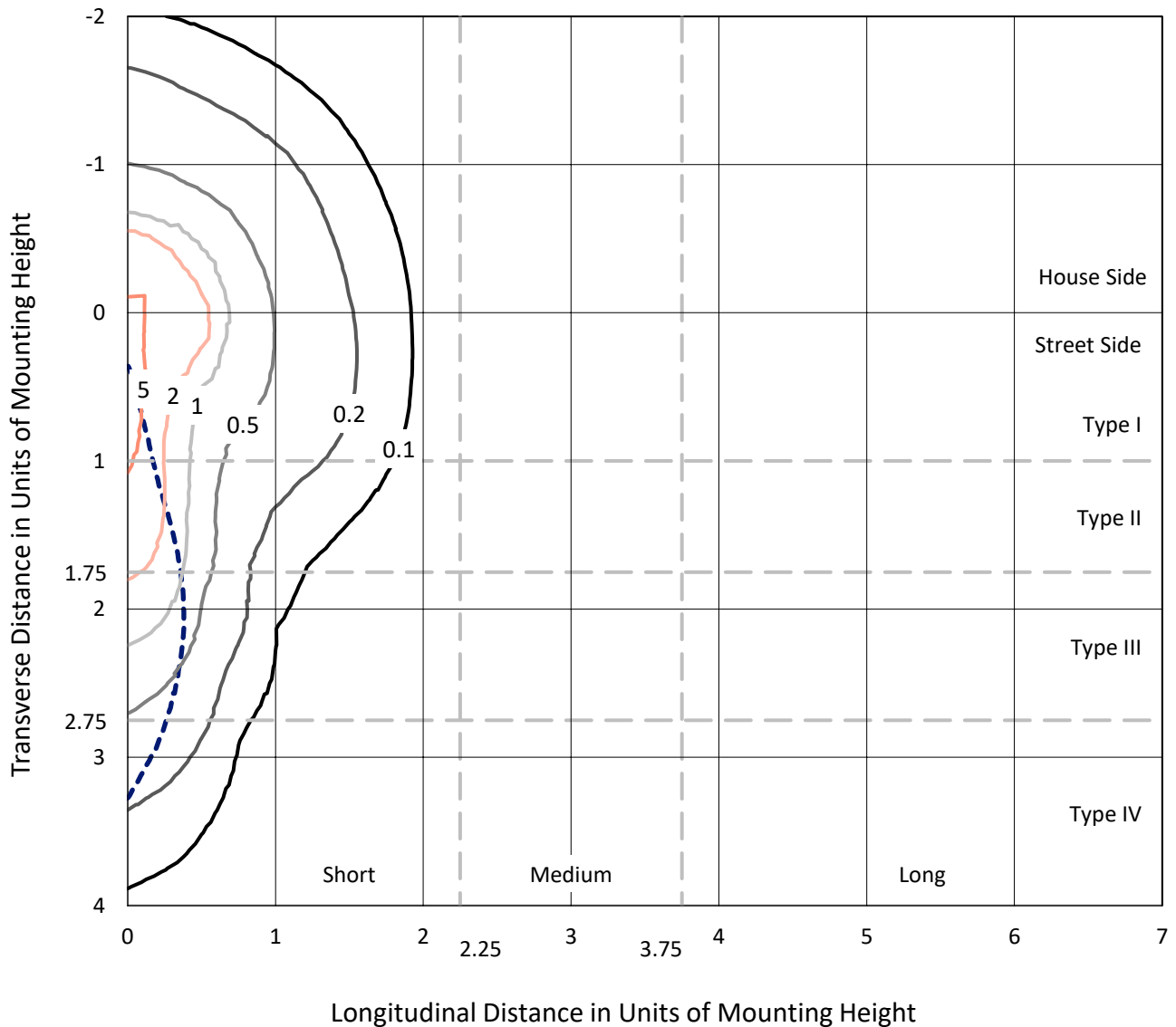
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

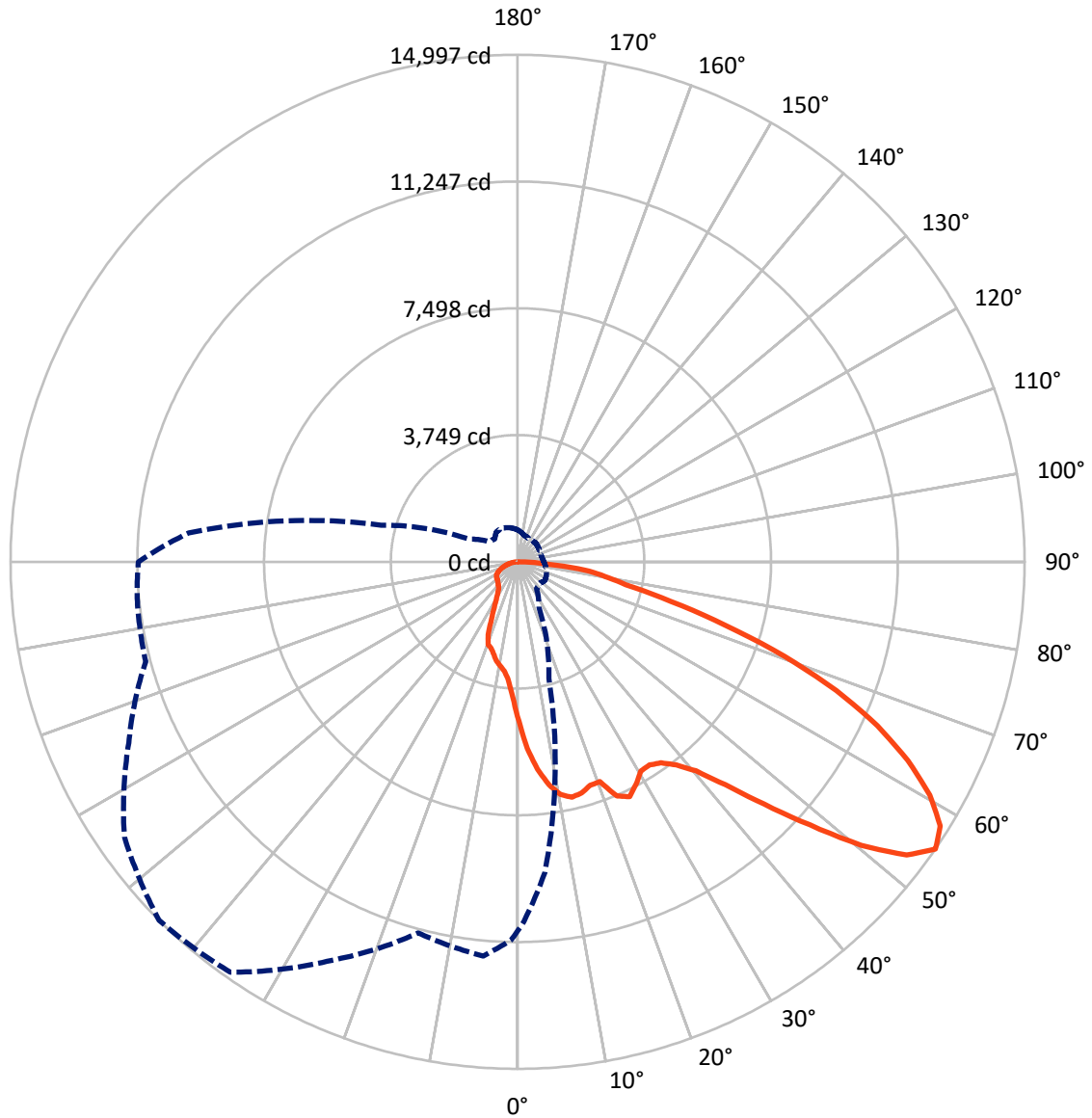
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4106.0	0.0	4106.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	14664.8	0.0	14664.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	18770.8	0.0	18770.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.3	2.1
10°-20°	1059.2	5.6
20°-30°	1829.9	9.7
30°-40°	2126.6	11.3
40°-50°	2967.0	15.8
50°-60°	4025.9	21.4
60°-70°	3830.2	20.4
70°-80°	2069.2	11.0
80°-90°	463.7	2.5
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°	18770.8	100.0
0°-180°	18770.8	100.0

Coefficient of Utilization

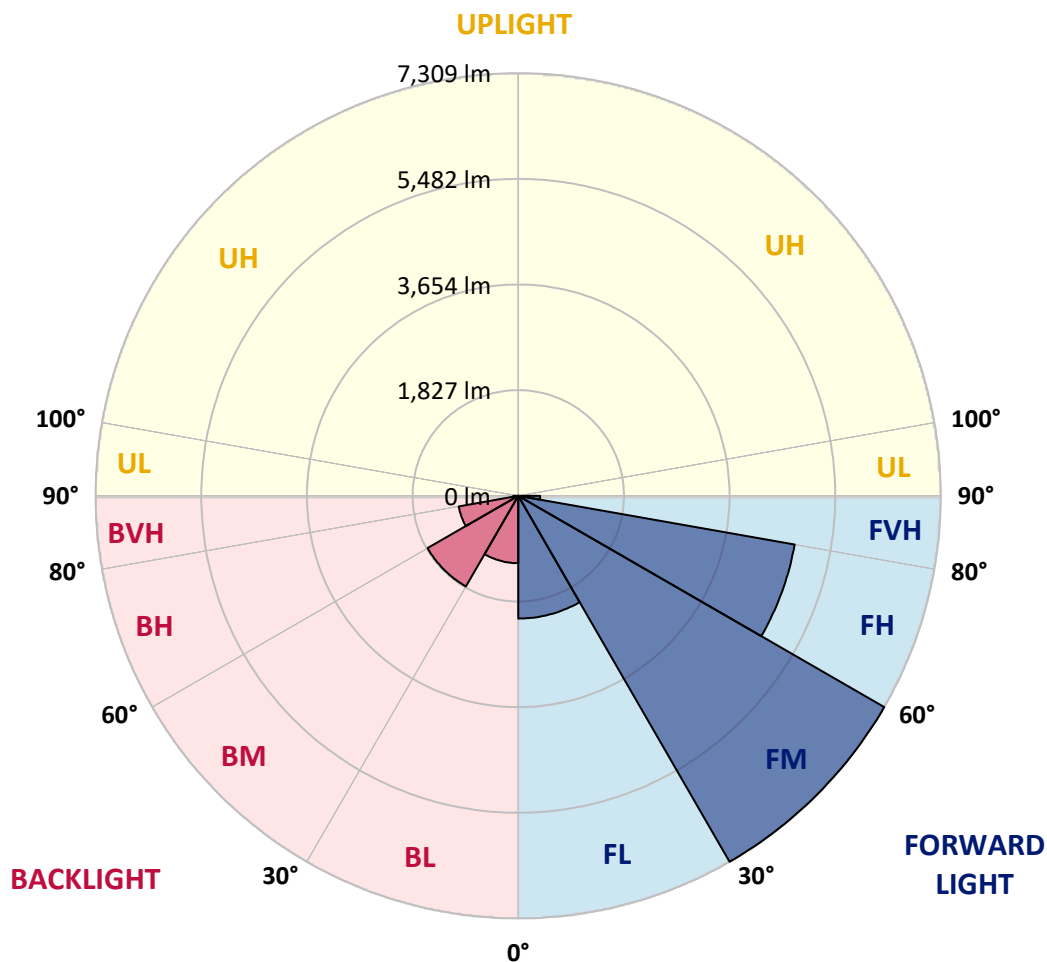


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2123.0	11.3			
FM (30°-60°)	7309.0	38.9			
FH (60°-80°)	4853.8	25.9			G2/5000
FVH (80°-90°)	379.0	2.0			G3/500
BL (0°-30°)	1165.3	6.2	B3/2500		
BM (30°-60°)	1810.5	9.6	B2/2500		
BH (60°-80°)	1045.5	5.6	B3/2500		G3/2500
BVH (80°-90°)	84.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4710.8	4710.8	4710.8	4710.8	4710.8	4710.8	4710.8	4710.8	4710.8	4710.8	4710.8
2.5°	5233.3	5213.5	5157.8	5011.7	4864.3	4714.4	4599.3	4455.7	4305.8	4225.3	4122.5
5°	5305.1	5282.9	5151.6	4822.2	4523.8	4210.4	3960.3	3741.1	3651.9	3520.7	3415.4
7.5°	5136.7	5126.8	4929.9	4456.9	4048.2	3638.3	3354.8	3178.9	3019.2	2959.7	2972.1
10°	4983.2	4943.5	4697.1	4079.2	3602.4	3269.3	3066.2	2894.0	2781.4	2751.6	2757.9
12.5°	4855.6	4802.4	4511.4	3825.3	3408.0	3141.7	2882.9	2703.4	2600.6	2629.1	2725.6
15°	4829.6	4757.8	4433.3	3738.7	3301.5	2958.5	2674.9	2468.1	2391.3	2453.2	2608.0
17.5°	4998.0	4907.7	4567.1	3767.1	3200.0	2771.5	2423.5	2186.9	2122.6	2221.6	2423.5
20°	5539.3	5405.4	4984.4	3931.8	3190.0	2678.6	2277.4	2039.6	2066.8	2255.0	2465.6
22.5°	6539.9	6339.2	5715.0	4172.1	3242.0	2655.1	2247.6	2123.8	2273.7	2433.4	2572.1
25°	6737.9	6580.7	5846.3	4226.6	3230.9	2638.9	2331.9	2393.8	2561.0	2640.2	2591.9
27.5°	6849.4	6669.8	5837.7	3956.6	2889.1	2393.8	2229.0	2331.9	2374.0	2297.2	2165.9
30°	7109.5	6922.5	5985.0	3673.0	2378.9	1775.8	1556.6	1514.6	1543.0	1557.9	1510.8
32.5°	7467.4	7282.8	6262.4	3487.2	2056.9	1468.7	1253.2	1193.8	1180.1	1164.1	1145.5
35°	7930.5	7646.9	6534.8	3368.4	1924.5	1358.5	1160.3	1114.5	1096.0	1073.6	1053.8
37.5°	8401.1	8103.9	6879.1	3243.3	1836.5	1281.7	1098.5	1077.4	1045.1	1021.7	993.2
40°	8901.4	8568.3	7192.4	3134.3	1751.0	1232.2	1053.8	1051.4	1009.3	982.0	948.6
42.5°	9334.8	8991.8	7472.3	3067.4	1685.4	1180.1	1026.6	1034.0	990.7	949.9	906.5
45°	9679.1	9342.3	7731.1	3067.4	1632.2	1128.1	1021.7	1016.7	973.3	922.6	873.0
47.5°	9981.2	9633.2	7983.8	3145.5	1598.7	1084.8	994.4	1003.1	958.5	894.1	845.8
50°	10215.3	9908.2	8324.3	3266.8	1565.3	1050.2	959.7	1006.8	946.1	879.2	823.5
52.5°	10513.7	10238.8	8734.2	3432.8	1536.8	1011.7	928.8	1006.8	944.8	880.5	819.8
55°	10927.4	10637.6	9228.3	3570.2	1491.0	975.9	901.5	978.3	941.2	874.3	809.9
57.5°	11217.1	11000.4	9577.6	3661.9	1425.4	930.0	876.8	951.0	925.0	850.7	780.2
58°	11230.7	11019.0	9628.3	3682.9	1409.2	921.4	870.5	938.7	917.6	840.9	770.2
60°	11074.8	10892.7	9638.2	3653.2	1317.6	878.0	838.4	887.9	878.0	782.7	717.0
62.5°	10507.5	10313.1	9238.2	3411.7	1196.3	824.7	788.9	819.8	797.5	700.9	640.3
65°	9701.4	9343.5	8415.9	3032.8	1109.6	767.8	722.0	724.4	700.9	631.6	578.3
67.5°	8627.7	8227.7	7125.5	2556.0	1044.0	704.6	642.7	636.5	608.1	563.4	520.1
70°	7306.4	7032.7	5790.6	2079.3	970.8	635.2	553.6	549.8	532.5	499.1	460.6
72.5°	5921.9	5573.9	4676.1	1664.3	881.7	568.4	470.6	478.0	455.7	432.2	397.5
75°	4370.2	4142.3	3614.8	1334.9	761.6	495.3	392.6	395.0	385.2	360.3	333.1
77.5°	2878.0	2809.9	2585.7	876.8	585.8	393.8	320.7	323.2	315.8	293.5	265.0
80°	1936.8	1891.0	1752.3	564.7	391.3	284.9	247.7	250.2	248.9	225.3	187.0
82.5°	1193.8	1174.0	1129.4	381.4	271.2	204.4	163.5	170.9	184.6	158.5	127.6
85°	563.4	564.7	682.3	208.0	159.7	131.2	89.2	95.4	95.4	95.4	71.8
87.5°	73.1	76.8	94.1	87.9	58.2	49.6	32.2	27.2	23.5	30.9	22.3
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°	4710.8	4710.8	4710.8	4710.8	4710.8	4710.8	4710.8	4710.8	4710.8	4710.8	4710.8
2.5°	4086.6	4061.8	4008.6	3996.2	3988.8	4009.8	3954.1	3968.9	3944.2	4013.6	4002.4
5°	3421.6	3424.1	3467.4	3495.9	3505.8	3495.9	3458.7	3394.4	3344.8	3325.0	3329.9
7.5°	2948.5	2991.9	3066.2	3149.1	3224.7	3247.0	3226.0	3103.3	2969.6	2885.4	2858.2
10°	2791.3	2849.5	2934.9	3000.5	3067.4	3120.7	3131.8	3036.5	2878.0	2678.6	2600.6
12.5°	2799.9	2879.2	2960.9	2982.0	2975.8	2996.9	2986.9	2970.9	2866.8	2612.9	2482.9
15°	2718.2	2812.3	2869.3	2858.2	2838.4	2819.7	2793.7	2752.9	2715.8	2537.4	2393.8
17.5°	2530.0	2626.6	2673.6	2677.4	2677.4	2672.4	2609.3	2594.4	2589.5	2502.7	2414.9
20°	2564.6	2617.9	2596.8	2562.2	2572.1	2605.5	2568.4	2561.0	2589.5	2627.8	2611.7
22.5°	2584.4	2565.9	2407.4	2253.9	2219.2	2323.2	2344.2	2427.2	2542.4	2681.1	2771.5
25°	2461.9	2312.0	2028.4	1855.1	1757.2	1853.8	1980.1	2133.7	2305.9	2484.1	2589.5
27.5°	2058.2	1944.3	1741.2	1585.1	1499.7	1514.6	1622.3	1762.2	1922.0	2042.1	2118.9
30°	1550.4	1499.7	1394.4	1341.1	1289.1	1276.8	1322.6	1375.8	1446.4	1461.3	1481.1
32.5°	1141.8	1134.3	1140.5	1123.2	1113.3	1112.0	1098.5	1110.8	1118.3	1126.9	1109.6
35°	1032.8	1022.9	1005.5	1000.6	994.4	996.9	990.7	984.5	989.5	996.9	1001.8
37.5°	977.1	962.2	937.4	928.8	928.8	932.5	922.6	920.1	928.8	952.3	964.7
40°	933.7	916.4	887.9	876.8	884.2	894.1	880.5	875.6	896.6	921.4	941.2
42.5°	892.9	879.2	852.0	839.6	845.8	864.4	844.5	840.9	868.1	895.4	918.9
45°	858.2	844.5	819.8	813.6	816.1	833.4	819.8	819.8	845.8	875.6	896.6
47.5°	830.9	813.6	797.5	792.6	795.1	804.9	802.5	802.5	827.2	858.2	879.2
50°	803.7	788.9	767.8	770.2	776.4	790.0	788.9	792.6	817.3	855.7	878.0
52.5°	791.3	769.1	745.5	748.0	766.6	782.7	777.7	781.4	809.9	881.7	913.9
55°	777.7	748.0	720.8	724.4	745.5	769.1	762.8	767.8	801.2	899.0	943.7
57.5°	751.7	717.0	687.3	689.7	720.8	745.5	735.6	741.8	781.4	880.5	927.5
58°	740.6	710.8	682.3	683.6	713.3	740.6	729.4	734.4	775.2	875.6	920.1
60°	693.5	676.1	651.4	652.6	681.1	704.6	698.4	703.4	743.0	839.6	873.0
62.5°	629.1	619.2	613.0	613.0	630.3	652.6	658.8	665.0	700.9	759.1	788.9
65°	559.8	559.8	561.0	561.0	572.1	600.6	604.3	620.4	653.9	682.3	704.6
67.5°	512.7	510.2	512.7	506.5	511.5	528.8	547.4	562.2	596.9	616.7	624.1
70°	452.0	450.8	452.0	443.3	449.5	464.4	476.8	501.5	537.5	552.3	556.0
72.5°	392.6	392.6	395.0	388.8	388.8	405.0	413.6	440.8	474.3	483.0	484.2
75°	330.7	334.3	334.3	325.7	328.2	338.1	349.2	371.5	402.5	408.6	408.6
77.5°	262.5	276.2	276.2	267.5	271.2	272.4	287.3	298.5	322.0	324.5	314.5
80°	190.7	204.4	215.5	208.0	214.2	206.8	215.5	222.9	246.4	235.3	219.2
82.5°	136.2	146.1	154.8	156.1	149.9	136.2	147.4	148.6	159.7	144.9	136.2
85°	75.6	84.2	95.4	90.4	80.5	71.8	75.6	78.0	76.8	73.1	68.1
87.5°	19.8	21.1	23.5	17.3	16.1	13.6	18.6	18.6	21.1	22.3	21.1
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4710.8	4710.8	4710.8	4710.8	4710.8	4710.8	4710.8	4710.8	4710.8	4710.8	4710.8
2.5°	4011.1	4065.6	4183.2	4272.4	4381.4	4513.8	4669.9	4827.2	4996.8	5050.0	5124.3
5°	3318.8	3455.1	3512.0	3674.2	3835.2	4076.7	4334.3	4632.7	4959.7	5116.9	5268.0
7.5°	2835.9	2908.9	2968.4	3087.3	3280.5	3573.9	3897.1	4269.9	4733.1	4962.1	5183.8
10°	2575.8	2583.3	2656.3	2803.7	2972.1	3230.9	3536.8	3954.1	4470.5	4749.1	5009.2
12.5°	2403.7	2371.5	2450.7	2604.3	2795.0	3034.0	3315.1	3712.6	4281.1	4567.1	4881.6
15°	2252.6	2201.8	2261.2	2418.5	2606.8	2887.9	3190.0	3611.1	4206.7	4539.8	4889.1
17.5°	2256.3	2116.4	2137.4	2269.9	2456.9	2743.0	3109.5	3607.4	4319.4	4703.3	5116.9
20°	2535.0	2310.8	2215.4	2240.2	2421.0	2733.1	3146.7	3780.7	4689.7	5249.5	5691.5
22.5°	2808.6	2673.6	2520.1	2469.3	2568.4	2895.3	3383.2	4190.6	5494.6	6338.0	7136.7
25°	2713.3	2828.4	2790.1	2718.2	2740.5	3011.7	3544.2	4527.5	6120.0	7069.9	7820.3
27.5°	2170.9	2380.2	2422.2	2421.0	2429.6	2652.6	3187.6	4300.9	6198.1	7209.8	7926.8
30°	1525.7	1544.2	1566.5	1609.8	1649.5	1848.9	2494.1	3775.8	6163.4	7273.0	7991.2
32.5°	1100.9	1125.6	1156.6	1216.1	1310.2	1564.0	2182.0	3608.6	6346.6	7534.3	8179.5
35°	1006.8	1035.3	1065.0	1133.1	1222.3	1457.6	2058.2	3539.2	6647.6	7957.8	8517.5
37.5°	977.1	1009.3	1035.3	1084.8	1156.6	1380.7	1945.4	3492.2	6955.9	8406.1	8970.8
40°	956.0	993.2	1014.2	1053.8	1103.4	1310.2	1845.1	3455.1	7254.3	8816.0	9334.8
42.5°	937.4	975.9	1003.1	1031.5	1072.4	1247.0	1756.0	3417.9	7513.2	9213.5	9697.7
45°	915.2	963.5	998.1	1020.4	1056.3	1193.8	1687.9	3388.2	7807.9	9566.4	10064.2
47.5°	896.6	949.9	993.2	1019.2	1032.8	1156.6	1633.4	3429.1	8162.1	9935.4	10404.7
50°	897.8	948.6	1003.1	1044.0	1008.0	1125.6	1600.0	3591.2	8622.8	10373.8	10673.5
52.5°	937.4	999.3	1042.7	1052.6	973.3	1088.5	1582.6	3874.8	9167.7	10761.4	10944.7
55°	982.0	1046.4	1093.5	1087.3	954.8	1041.5	1578.9	4177.0	9764.6	11213.4	11297.6
57.5°	965.9	1060.0	1131.9	1099.6	956.0	995.7	1562.8	4421.0	10263.6	11551.5	11646.9
58°	961.0	1055.1	1136.8	1097.2	952.3	982.0	1559.1	4442.0	10332.9	11575.0	11696.4
60°	912.7	1011.7	1133.1	1078.6	931.2	944.8	1518.2	4510.2	10314.4	11453.6	11726.1
62.5°	824.7	906.5	1047.7	988.2	866.9	895.4	1426.6	4425.9	9811.6	10869.1	11291.4
65°	725.7	786.4	880.5	869.4	775.2	844.5	1301.5	4092.8	8804.8	9920.5	10365.1
67.5°	651.4	700.9	760.4	744.2	697.2	776.4	1166.5	3529.4	7675.4	8781.3	9341.0
70°	575.8	614.3	643.9	632.8	617.9	709.6	1046.4	2864.4	6593.1	7698.9	8241.3
72.5°	499.1	534.9	559.8	543.6	534.9	639.0	948.6	2222.9	5207.3	6351.6	7048.8
75°	417.3	453.3	470.6	452.0	447.0	563.4	803.7	1660.7	3907.0	4896.5	5498.4
77.5°	323.2	361.6	383.9	377.7	380.1	463.1	648.9	1136.8	2793.7	3337.4	3971.5
80°	226.6	268.7	283.6	277.4	294.7	352.9	458.2	722.0	1926.9	2165.9	2612.9
82.5°	139.9	179.5	182.0	188.2	200.6	261.3	345.5	439.7	1209.9	1250.8	1575.2
85°	70.5	85.4	91.6	101.6	112.7	159.7	196.9	272.4	778.9	589.4	880.5
87.5°	23.5	24.7	29.8	37.1	45.8	65.6	84.2	111.4	193.2	106.5	272.4
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°	4710.8	4710.8	4710.8	4710.8	4710.8	4710.8	4710.8	4710.8	4710.8	4710.8
2.5°	5274.2	5379.4	5456.3	5526.8	5458.8	5452.5	5385.6	5277.9	5233.3	5233.3
5°	5585.1	5831.5	6030.8	6158.4	6104.0	5972.6	5755.9	5479.7	5331.2	5305.1
7.5°	5670.5	6157.2	6527.4	6658.7	6567.1	6277.3	5862.4	5396.8	5183.8	5136.7
10°	5618.5	6251.3	6795.0	7003.0	6875.4	6437.0	5871.1	5300.2	5037.7	4983.2
12.5°	5564.0	6263.7	6844.4	7145.4	7062.4	6565.8	5934.3	5237.1	4933.7	4855.6
15°	5603.6	6268.6	6783.8	7094.6	7147.9	6720.6	6038.3	5282.9	4912.6	4829.6
17.5°	5853.8	6362.7	6697.1	6948.5	7135.5	6931.1	6334.2	5502.1	5100.9	4998.0
20°	6376.4	6588.1	6746.6	6941.1	7242.0	7360.8	6939.8	6104.0	5629.6	5539.3
22.5°	7889.7	7851.2	7526.8	7523.1	7959.0	8435.7	8407.3	7327.4	6614.2	6539.9
25°	8456.8	8278.5	7809.2	7695.2	7887.2	8622.8	8516.2	7577.6	6918.7	6737.9
27.5°	8235.1	7793.0	7484.7	7458.7	7395.5	8090.3	8346.6	7679.1	7025.2	6849.4
30°	8221.5	7571.4	7130.5	7182.5	7243.2	7907.0	8440.7	7997.4	7297.7	7109.5
32.5°	8254.9	7602.3	7156.5	7166.4	7347.2	7934.2	8544.7	8344.1	7655.6	7467.4
35°	8389.9	7778.2	7322.5	7299.0	7581.3	8112.6	8721.8	8889.0	8144.8	7930.5
37.5°	8607.9	8128.6	7625.9	7619.7	8029.6	8434.6	8942.3	9438.8	8631.4	8401.1
40°	8928.6	8538.5	8165.8	8132.4	8638.8	8958.4	9228.3	10024.6	9197.4	8901.4
42.5°	9316.2	9030.2	8877.9	9010.4	9497.0	9546.6	9674.1	10565.7	9679.1	9334.8
45°	9675.4	9661.8	9873.5	10225.2	10508.8	10211.6	10139.8	10928.6	10053.1	9679.1
47.5°	10102.6	10471.6	11110.6	11625.8	11923.0	10985.6	10537.3	11165.1	10325.5	9981.2
50°	10536.0	11441.3	12461.7	13179.9	13243.1	11826.4	10811.0	11388.0	10573.2	10215.3
52.5°	10991.8	12215.3	13573.8	14408.4	14285.8	12558.3	11075.9	11539.1	10828.3	10513.7
55°	11388.0	12689.5	14195.4	14996.6	14817.1	13004.1	11362.0	11702.6	11192.4	10927.4
57.5°	11609.7	12729.2	14040.6	14740.3	14545.9	12917.4	11493.3	11823.9	11425.2	11217.1
58°	11641.9	12675.9	13903.2	14591.7	14393.6	12844.3	11492.1	11819.0	11440.0	11230.7
60°	11613.4	12330.4	13391.7	14004.7	13796.7	12386.1	11445.0	11726.1	11251.8	11074.8
62.5°	11349.7	11731.1	12508.7	12954.6	12895.1	11670.4	11251.8	11375.7	10678.5	10507.5
65°	11002.9	10913.8	11378.2	11693.9	11738.5	11134.2	11059.9	10617.8	9942.8	9701.4
67.5°	10581.9	9987.4	9986.2	10165.8	10240.1	10309.4	10659.8	9794.2	8882.8	8627.7
70°	9867.3	8559.6	8165.8	8377.6	8315.6	8901.4	9945.4	8637.6	7604.8	7306.4
72.5°	8557.1	6792.4	6162.1	6434.5	6278.6	6980.7	8702.0	7108.2	6288.4	5921.9
75°	6936.1	5081.0	4430.9	4681.0	4584.5	5295.3	7240.7	5162.8	4510.2	4370.2
77.5°	5385.6	3681.7	3303.9	3269.3	3341.1	3940.5	5311.3	3486.0	2973.3	2878.0
80°	3460.0	2635.3	2657.5	2612.9	2650.1	2484.1	3224.7	2224.1	2013.6	1936.8
82.5°	2277.4	1836.5	2189.4	2021.0	1919.4	1670.5	2115.1	1456.3	1235.9	1193.8
85°	1551.7	1352.3	1231.0	941.2	1108.3	1286.6	1586.4	783.9	621.6	563.4
87.5°	700.9	470.6	345.5	213.0	336.8	388.8	770.2	91.6	70.5	73.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)