

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: P650861

Luminaire Tested: **GALN-SA4C-840-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650861
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-840-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 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: 20161.3 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

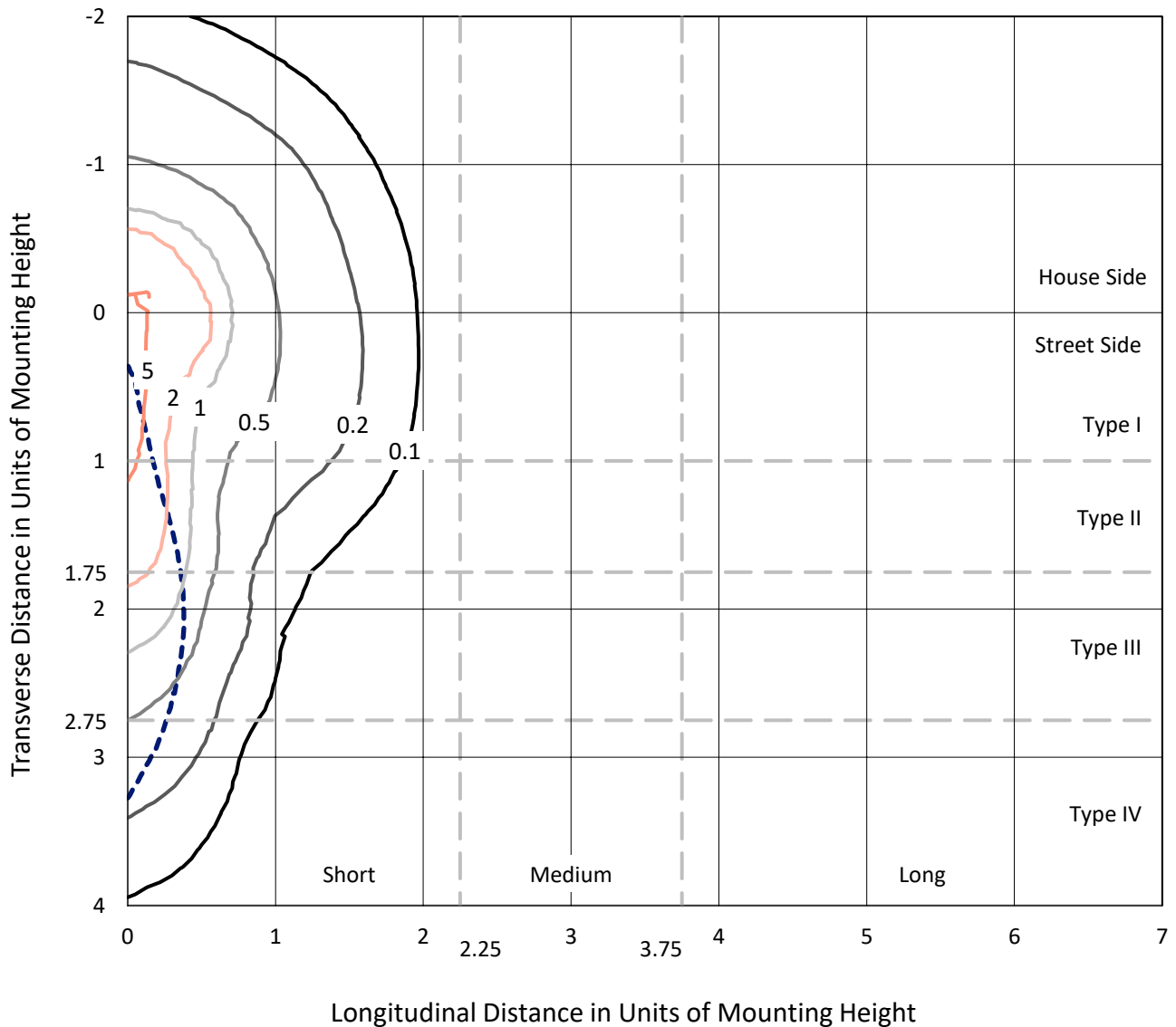
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

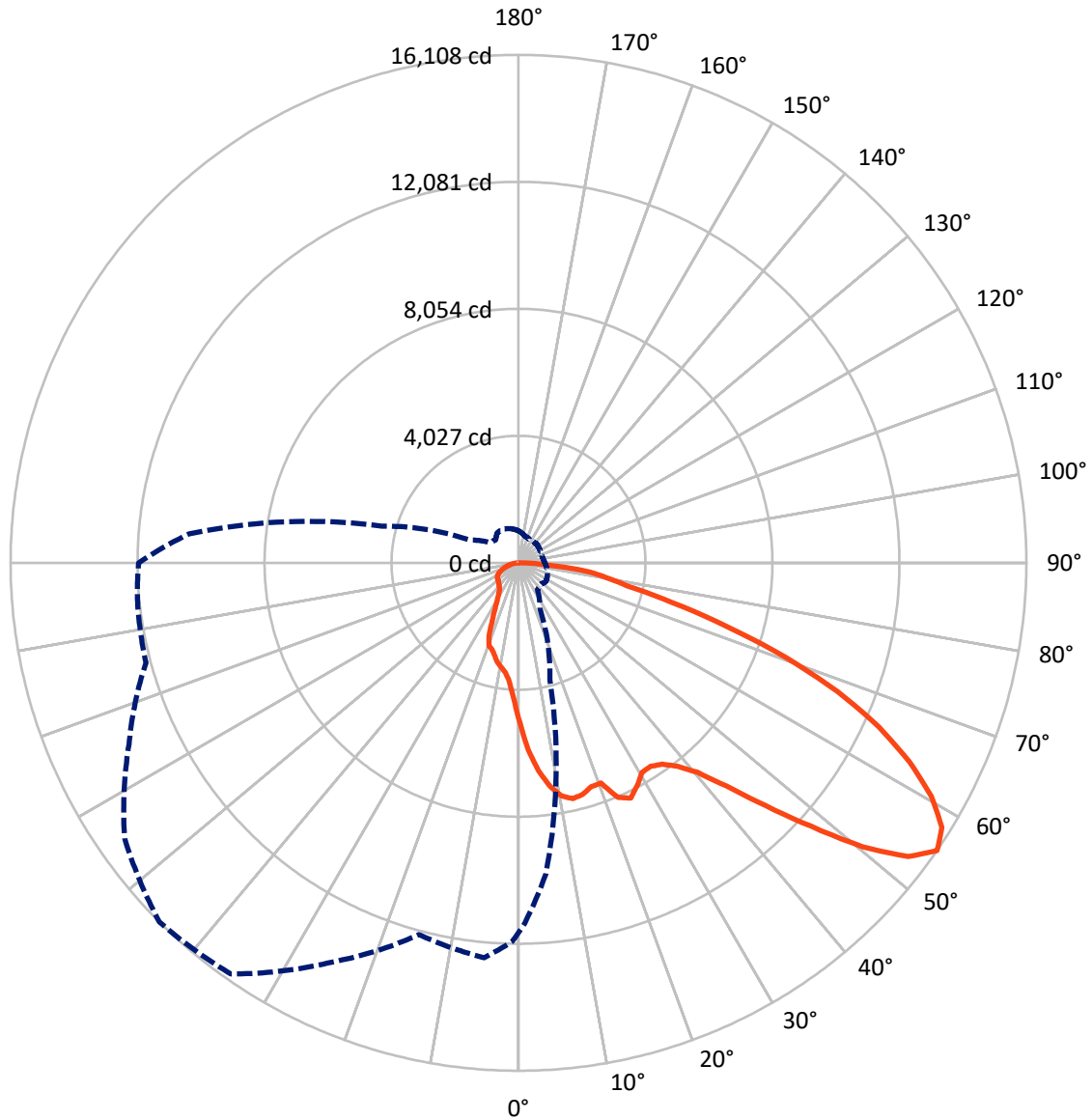
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	4410.2	0.0	4410.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	15751.1	0.0	15751.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	20161.3	0.0	20161.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.8	2.1
10°-20°	1137.7	5.6
20°-30°	1965.4	9.7
30°-40°	2284.1	11.3
40°-50°	3186.8	15.8
50°-60°	4324.1	21.4
60°-70°	4113.9	20.4
70°-80°	2222.4	11.0
80°-90°	498.1	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°	20161.3	100.0
0°-180°	20161.3	100.0

Coefficient of Utilization



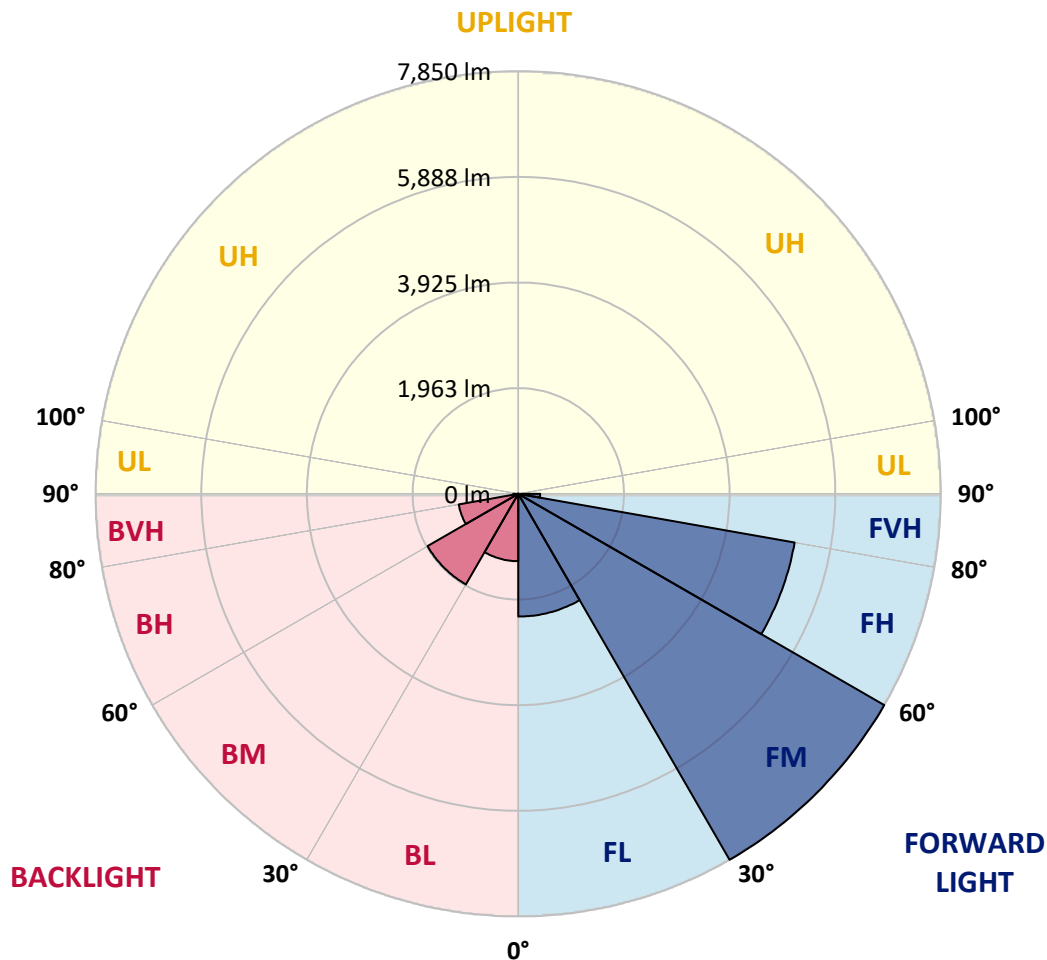
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2280.3	11.3			
FM (30°-60°)	7850.4	38.9			
FH (60°-80°)	5213.4	25.9			G3/7500
FVH (80°-90°)	407.1	2.0			G3/500
BL (0°-30°)	1251.6	6.2	B3/2500		
BM (30°-60°)	1944.6	9.6	B2/2500		
BH (60°-80°)	1122.9	5.6	B3/2500		G3/2500
BVH (80°-90°)	91.0	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°	5059.7	5059.7	5059.7	5059.7	5059.7	5059.7	5059.7	5059.7	5059.7	5059.7	5059.7
2.5°	5621.0	5599.7	5539.8	5382.9	5224.6	5063.7	4939.9	4785.7	4624.7	4538.3	4427.9
5°	5698.1	5674.2	5533.2	5179.4	4858.9	4522.3	4253.7	4018.2	3922.4	3781.5	3668.4
7.5°	5517.2	5506.6	5295.1	4787.1	4348.1	3907.8	3603.3	3414.4	3242.8	3178.9	3192.3
10°	5352.3	5309.7	5045.1	4381.4	3869.3	3511.4	3293.4	3108.4	2987.4	2955.4	2962.2
12.5°	5215.3	5158.1	4845.6	4108.7	3660.5	3374.4	3096.5	2903.6	2793.2	2823.8	2927.5
15°	5187.4	5110.3	4761.7	4015.6	3546.1	3177.6	2873.0	2650.9	2568.4	2634.9	2801.2
17.5°	5368.3	5271.2	4905.4	4046.1	3437.0	2976.8	2603.0	2348.9	2279.8	2386.2	2603.0
20°	5949.6	5805.8	5353.6	4223.1	3426.3	2877.0	2446.0	2190.6	2219.9	2422.1	2648.2
22.5°	7024.3	6808.7	6138.4	4481.1	3482.2	2851.7	2414.1	2281.1	2442.1	2613.7	2762.6
25°	7237.1	7068.2	6279.4	4539.6	3470.2	2834.4	2504.6	2571.1	2750.7	2835.8	2783.9
27.5°	7356.8	7163.9	6270.1	4249.7	3103.1	2571.1	2394.2	2504.6	2549.8	2467.3	2326.4
30°	7636.1	7435.3	6428.4	3945.0	2555.1	1907.4	1671.9	1626.7	1657.3	1673.3	1622.7
32.5°	8020.5	7822.3	6726.3	3745.6	2209.3	1577.5	1346.0	1282.2	1267.6	1250.3	1230.4
35°	8518.0	8213.4	7018.9	3617.9	2067.0	1459.1	1246.3	1197.1	1177.1	1153.2	1131.9
37.5°	9023.4	8704.2	7388.7	3483.5	1972.6	1376.6	1179.8	1157.2	1122.6	1097.3	1066.7
40°	9560.7	9203.0	7725.2	3366.4	1880.7	1323.5	1131.9	1129.3	1084.0	1054.8	1018.9
42.5°	10026.3	9657.9	8025.8	3294.6	1810.3	1267.6	1102.6	1110.6	1064.1	1020.2	973.6
45°	10396.0	10034.3	8303.8	3294.6	1753.1	1211.7	1097.3	1092.0	1045.4	991.0	937.7
47.5°	10720.6	10346.8	8575.2	3378.5	1717.2	1165.2	1068.1	1077.4	1029.5	960.3	908.4
50°	10972.0	10642.1	8940.9	3508.8	1681.2	1127.9	1030.8	1081.4	1016.2	944.4	884.5
52.5°	11292.5	10997.3	9381.2	3687.0	1650.6	1086.7	997.6	1081.4	1014.8	945.7	880.5
55°	11736.8	11425.6	9911.9	3834.7	1601.4	1048.1	968.3	1050.7	1010.9	939.1	869.8
57.5°	12048.0	11815.3	10287.0	3933.1	1531.0	998.9	941.8	1021.5	993.6	913.7	838.0
58°	12062.6	11835.2	10341.5	3955.7	1513.6	989.6	935.0	1008.2	985.6	903.1	827.3
60°	11895.1	11699.6	10352.1	3923.8	1415.2	943.0	900.5	953.7	943.0	840.7	770.1
62.5°	11285.9	11077.1	9922.5	3664.4	1284.9	885.8	847.3	880.5	856.6	752.9	687.7
65°	10420.0	10035.6	9039.3	3257.4	1191.8	824.7	775.5	778.1	752.9	678.4	621.2
67.5°	9266.8	8837.1	7653.4	2745.4	1121.3	756.8	690.3	683.6	653.1	605.2	558.7
70°	7847.6	7553.6	6219.5	2233.3	1042.8	682.3	594.6	590.6	572.0	536.1	494.8
72.5°	6360.6	5986.7	5022.5	1787.6	947.1	610.5	505.4	513.4	489.5	464.2	427.0
75°	4694.0	4449.1	3882.6	1433.8	818.0	532.0	421.7	424.3	413.7	387.0	357.8
77.5°	3091.2	3018.0	2777.2	941.8	629.2	422.9	344.5	347.2	339.2	315.2	284.7
80°	2080.3	2031.1	1882.1	606.5	420.3	306.0	266.0	268.7	267.4	242.0	200.8
82.5°	1282.2	1260.9	1213.1	409.7	291.3	219.5	175.6	183.6	198.2	170.2	137.0
85°	605.2	606.5	732.8	223.5	171.6	141.0	95.8	102.4	102.4	102.4	77.1
87.5°	78.5	82.5	101.1	94.4	62.5	53.2	34.6	29.3	25.2	33.2	24.0
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°	5059.7	5059.7	5059.7	5059.7	5059.7	5059.7	5059.7	5059.7	5059.7	5059.7	5059.7
2.5°	4389.3	4362.7	4305.5	4292.2	4284.2	4306.8	4247.0	4262.9	4236.4	4310.9	4298.9
5°	3675.1	3677.7	3724.3	3754.9	3765.5	3754.9	3714.9	3645.8	3592.6	3571.3	3576.6
7.5°	3167.0	3213.5	3293.4	3382.4	3463.6	3487.5	3464.9	3333.2	3189.6	3099.2	3069.9
10°	2998.1	3060.6	3152.3	3222.8	3294.6	3351.9	3363.8	3261.4	3091.2	2877.0	2793.2
12.5°	3007.3	3092.4	3180.2	3202.9	3196.2	3218.8	3208.2	3190.9	3079.2	2806.5	2666.8
15°	2919.5	3020.6	3081.8	3069.9	3048.6	3028.6	3000.7	2956.8	2916.9	2725.3	2571.1
17.5°	2717.4	2821.1	2871.7	2875.7	2875.7	2870.3	2802.5	2786.6	2781.3	2688.1	2593.7
20°	2754.6	2811.8	2789.2	2752.0	2762.6	2798.5	2758.6	2750.7	2781.3	2822.5	2805.2
22.5°	2775.9	2756.0	2585.7	2420.8	2383.6	2495.2	2517.9	2607.0	2730.7	2879.7	2976.8
25°	2644.3	2483.3	2178.7	1992.5	1887.4	1991.2	2126.8	2291.7	2476.7	2668.2	2781.3
27.5°	2210.7	2088.3	1870.1	1702.5	1610.8	1626.7	1742.5	1892.8	2064.3	2193.3	2275.8
30°	1665.3	1610.8	1497.7	1440.5	1384.6	1371.3	1420.5	1477.7	1553.6	1569.6	1590.8
32.5°	1226.3	1218.4	1225.0	1206.4	1195.7	1194.4	1179.8	1193.1	1201.1	1210.4	1191.8
35°	1109.3	1098.7	1080.0	1074.7	1068.1	1070.8	1064.1	1057.4	1062.8	1070.8	1076.1
37.5°	1049.5	1033.5	1006.8	997.6	997.6	1001.5	991.0	988.3	997.6	1022.8	1036.1
40°	1002.9	984.3	953.7	941.8	949.7	960.3	945.7	940.4	963.0	989.6	1010.9
42.5°	959.0	944.4	915.1	901.8	908.4	928.4	907.1	903.1	932.4	961.7	986.9
45°	921.7	907.1	880.5	873.9	876.6	895.2	880.5	880.5	908.4	940.4	963.0
47.5°	892.5	873.9	856.6	851.3	854.0	864.5	861.9	861.9	888.5	921.7	944.4
50°	863.2	847.3	824.7	827.3	833.9	848.6	847.3	851.3	877.8	919.1	943.0
52.5°	849.9	826.0	800.7	803.4	823.3	840.7	835.3	839.3	869.8	947.1	981.6
55°	835.3	803.4	774.1	778.1	800.7	826.0	819.3	824.7	860.6	965.6	1013.6
57.5°	807.4	770.1	738.2	740.8	774.1	800.7	790.1	796.8	839.3	945.7	996.2
58°	795.4	763.5	732.8	734.2	766.2	795.4	783.4	788.8	832.7	940.4	988.3
60°	744.9	726.2	699.6	701.0	731.6	756.8	750.2	755.5	798.0	901.8	937.7
62.5°	675.7	665.1	658.4	658.4	677.0	701.0	707.6	714.3	752.9	815.3	847.3
65°	601.2	601.2	602.6	602.6	614.5	645.1	649.1	666.4	702.3	732.8	756.8
67.5°	550.7	548.0	550.7	544.0	549.3	567.9	587.9	603.8	641.1	662.4	670.4
70°	485.5	484.2	485.5	476.2	482.8	498.8	512.1	538.7	577.3	593.2	597.2
72.5°	421.7	421.7	424.3	417.6	417.6	435.0	444.2	473.5	509.4	518.7	520.1
75°	355.2	359.1	359.1	349.9	352.5	363.1	375.1	399.1	432.3	438.9	438.9
77.5°	282.0	296.6	296.6	287.3	291.3	292.6	308.6	320.6	345.8	348.5	337.8
80°	204.9	219.5	231.4	223.5	230.1	222.1	231.4	239.4	264.7	252.7	235.4
82.5°	146.3	156.9	166.3	167.6	161.0	146.3	158.3	159.6	171.6	155.6	146.3
85°	81.2	90.4	102.4	97.1	86.5	77.1	81.2	83.8	82.5	78.5	73.2
87.5°	21.3	22.6	25.2	18.6	17.3	14.6	19.9	19.9	22.6	24.0	22.6
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°	5059.7	5059.7	5059.7	5059.7	5059.7	5059.7	5059.7	5059.7	5059.7	5059.7	5059.7
2.5°	4308.2	4366.7	4493.0	4588.8	4705.9	4848.2	5015.8	5184.8	5366.9	5424.1	5503.9
5°	3564.7	3711.0	3772.1	3946.4	4119.3	4378.7	4655.4	4975.9	5327.1	5495.9	5658.2
7.5°	3045.9	3124.4	3188.2	3316.0	3523.5	3838.7	4185.8	4586.1	5083.7	5329.7	5567.8
10°	2766.6	2774.6	2853.1	3011.4	3192.3	3470.2	3798.8	4247.0	4801.7	5100.9	5380.2
12.5°	2581.7	2547.1	2632.2	2797.2	3002.0	3258.7	3560.7	3987.6	4598.2	4905.4	5243.2
15°	2419.5	2364.9	2428.7	2597.7	2799.9	3101.8	3426.3	3878.6	4518.4	4876.1	5251.2
17.5°	2423.4	2273.1	2295.8	2438.1	2638.9	2946.2	3339.9	3874.6	4639.4	5051.7	5495.9
20°	2722.7	2482.0	2379.5	2406.2	2600.4	2935.5	3379.8	4060.8	5037.1	5638.3	6113.1
22.5°	3016.7	2871.7	2706.8	2652.2	2758.6	3109.8	3633.8	4501.0	5901.6	6807.5	7665.4
25°	2914.2	3037.9	2996.7	2919.5	2943.5	3234.8	3806.7	4862.8	6573.3	7593.6	8399.6
27.5°	2331.7	2556.5	2601.6	2600.4	2609.6	2849.1	3423.7	4619.4	6657.2	7743.8	8513.9
30°	1638.7	1658.6	1682.6	1729.1	1771.7	1985.9	2678.8	4055.5	6619.9	7811.7	8583.2
32.5°	1182.4	1209.0	1242.3	1306.2	1407.2	1679.9	2343.6	3875.9	6816.7	8092.4	8785.3
35°	1081.4	1112.0	1143.8	1217.0	1312.8	1565.5	2210.7	3801.4	7140.0	8547.3	9148.4
37.5°	1049.5	1084.0	1112.0	1165.2	1242.3	1483.0	2089.5	3750.9	7471.2	9028.7	9635.3
40°	1026.9	1066.7	1089.3	1131.9	1185.1	1407.2	1981.8	3711.0	7791.7	9469.0	10026.3
42.5°	1006.8	1048.1	1077.4	1107.9	1151.8	1339.4	1886.1	3671.0	8069.7	9896.0	10416.0
45°	983.0	1034.9	1072.0	1096.0	1134.6	1282.2	1812.9	3639.2	8386.3	10275.0	10809.7
47.5°	963.0	1020.2	1066.7	1094.6	1109.3	1242.3	1754.4	3683.1	8766.7	10671.4	11175.5
50°	964.3	1018.9	1077.4	1121.3	1082.7	1209.0	1718.5	3857.2	9261.5	11142.2	11464.1
52.5°	1006.8	1073.4	1120.0	1130.6	1045.4	1169.2	1699.8	4161.9	9846.8	11558.5	11755.4
55°	1054.8	1123.9	1174.5	1167.8	1025.5	1118.6	1695.9	4486.4	10487.9	12044.0	12134.5
57.5°	1037.5	1138.5	1215.7	1181.1	1026.9	1069.4	1678.6	4748.5	11023.8	12407.2	12509.6
58°	1032.2	1133.2	1221.0	1178.5	1022.8	1054.8	1674.6	4771.1	11098.3	12432.4	12562.8
60°	980.3	1086.7	1217.0	1158.5	1000.2	1014.8	1630.7	4844.2	11078.4	12302.1	12594.7
62.5°	885.8	973.6	1125.3	1061.4	931.1	961.7	1532.3	4753.8	10538.4	11674.3	12127.8
65°	779.4	844.6	945.7	933.8	832.7	907.1	1397.9	4396.0	9457.0	10655.4	11132.9
67.5°	699.6	752.9	816.7	799.4	748.8	833.9	1252.9	3790.8	8244.0	9431.7	10033.0
70°	618.5	659.8	691.6	679.7	663.7	762.1	1123.9	3076.5	7081.5	8269.2	8851.8
72.5°	536.1	574.6	601.2	583.9	574.6	686.3	1018.9	2387.5	5593.1	6822.1	7570.9
75°	448.3	486.9	505.4	485.5	480.1	605.2	863.2	1783.7	4196.4	5259.2	5905.7
77.5°	347.2	388.4	412.3	405.7	408.3	497.5	696.9	1221.0	3000.7	3584.6	4265.6
80°	243.4	288.6	304.6	298.0	316.6	379.0	492.2	775.5	2069.6	2326.4	2806.5
82.5°	150.3	192.8	195.5	202.2	215.5	280.6	371.1	472.2	1299.5	1343.4	1691.9
85°	75.8	91.8	98.4	109.1	121.0	171.6	211.5	292.6	836.6	633.1	945.7
87.5°	25.2	26.6	32.0	39.9	49.2	70.5	90.4	119.7	207.5	114.4	292.6
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°	5059.7	5059.7	5059.7	5059.7	5059.7	5059.7	5059.7	5059.7	5059.7	5059.7
2.5°	5664.9	5777.9	5860.4	5936.2	5863.1	5856.4	5784.6	5668.8	5621.0	5621.0
5°	5998.8	6263.4	6477.6	6614.5	6556.1	6415.1	6182.3	5885.7	5726.1	5698.1
7.5°	6090.5	6613.3	7010.9	7151.9	7053.6	6742.3	6296.7	5796.6	5567.8	5517.2
10°	6034.7	6714.4	7298.3	7521.7	7384.7	6913.9	6306.0	5692.8	5410.8	5352.3
12.5°	5976.1	6727.7	7351.4	7674.7	7585.6	7052.2	6373.9	5625.0	5299.1	5215.3
15°	6018.7	6733.0	7286.3	7620.1	7677.3	7218.5	6485.5	5674.2	5276.5	5187.4
17.5°	6287.4	6834.1	7193.2	7463.2	7664.0	7444.5	6803.4	5909.6	5478.7	5368.3
20°	6848.7	7076.1	7246.4	7455.2	7778.4	7906.1	7453.9	6556.1	6046.6	5949.6
22.5°	8474.1	8432.8	8084.4	8080.3	8548.5	9060.6	9030.1	7870.2	7104.1	7024.3
25°	9083.2	8891.7	8387.6	8265.3	8471.4	9261.5	9147.1	8138.9	7431.2	7237.1
27.5°	8845.1	8370.3	8039.1	8011.2	7943.3	8689.5	8964.9	8247.9	7545.6	7356.8
30°	8830.5	8132.2	7658.7	7714.6	7779.8	8492.7	9066.0	8589.8	7838.3	7636.1
32.5°	8866.4	8165.4	7686.7	7697.3	7891.4	8521.9	9177.7	8962.2	8222.7	8020.5
35°	9011.4	8354.3	7864.9	7839.6	8142.9	8713.5	9367.9	9547.5	8748.1	8518.0
37.5°	9245.5	8730.8	8190.8	8184.1	8624.4	9059.3	9604.6	10138.0	9270.8	9023.4
40°	9590.0	9171.0	8770.7	8734.8	9278.8	9622.0	9911.9	10767.2	9878.6	9560.7
42.5°	10006.3	9699.1	9535.5	9677.8	10200.5	10253.7	10390.7	11348.4	10396.0	10026.3
45°	10392.1	10377.4	10604.8	10982.6	11287.2	10968.0	10890.9	11738.1	10797.8	10396.0
47.5°	10850.9	11247.3	11933.6	12487.0	12806.2	11799.3	11317.8	11992.2	11090.4	10720.6
50°	11316.5	12288.8	13384.8	14156.2	14224.1	12702.5	11611.8	12231.6	11356.4	10972.0
52.5°	11806.0	13120.1	14579.2	15475.7	15344.0	13488.5	11896.4	12393.9	11630.4	11292.5
55°	12231.6	13629.5	15246.9	16107.5	15914.7	13967.4	12203.7	12569.4	12021.4	11736.8
57.5°	12469.7	13672.1	15080.6	15832.2	15623.3	13874.2	12344.6	12699.8	12271.5	12048.0
58°	12504.2	13614.9	14933.0	15672.5	15459.8	13795.8	12343.4	12694.5	12287.4	12062.6
60°	12473.6	13243.8	14383.7	15042.1	14818.7	13303.6	12292.8	12594.7	12085.3	11895.1
62.5°	12190.4	12600.0	13435.3	13914.2	13850.3	12534.9	12085.3	12218.3	11469.5	11285.9
65°	11817.9	11722.2	12221.0	12560.2	12608.0	11958.9	11879.1	11404.3	10679.4	10420.0
67.5°	11365.7	10727.2	10725.9	10918.8	10998.6	11073.1	11449.5	10519.7	9540.8	9266.8
70°	10598.2	9193.6	8770.7	8998.1	8931.6	9560.7	10682.0	9277.4	8168.1	7847.6
72.5°	9191.0	7295.6	6618.6	6911.2	6743.6	7497.8	9346.6	7634.8	6754.2	6360.6
75°	7449.9	5457.4	4759.1	5027.8	4924.1	5687.5	7777.1	5545.2	4844.2	4694.0
77.5°	5784.6	3954.4	3548.7	3511.4	3588.6	4232.4	5704.8	3744.2	3193.5	3091.2
80°	3716.3	2830.5	2854.4	2806.5	2846.4	2668.2	3463.6	2388.9	2162.7	2080.3
82.5°	2446.0	1972.6	2351.6	2170.7	2061.6	1794.3	2271.8	1564.2	1327.4	1282.2
85°	1666.6	1452.5	1322.1	1010.9	1190.4	1381.9	1703.9	841.9	667.7	605.2
87.5°	752.9	505.4	371.1	228.8	361.8	417.6	827.3	98.4	75.8	78.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)