

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: P651851

Luminaire Tested: **GALN-SA4A-840-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651851
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-SA4A-840-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 615mA 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: 13114.5 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 121
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

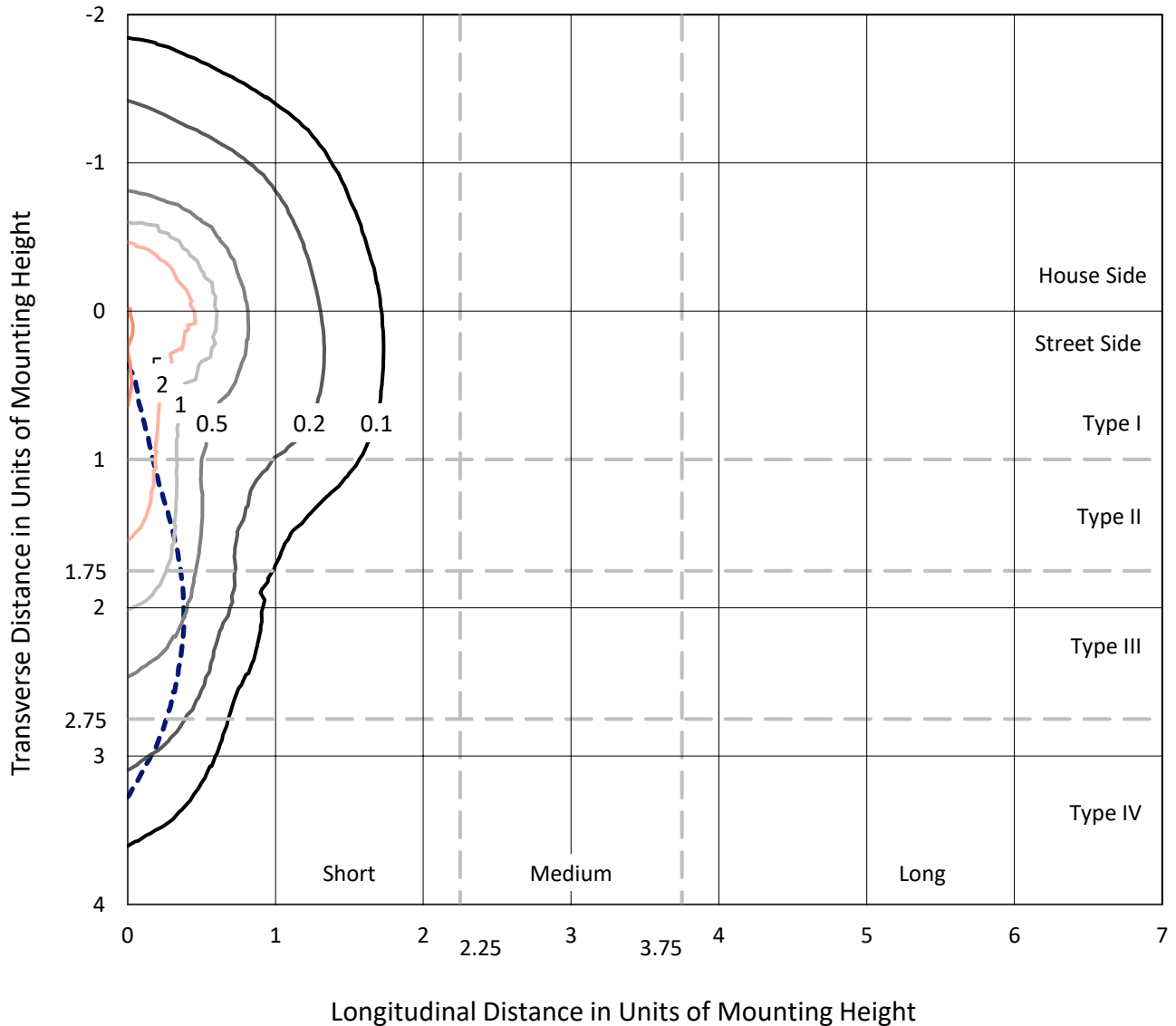




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Iso-Footcandle Lines of Horizontal Illumination

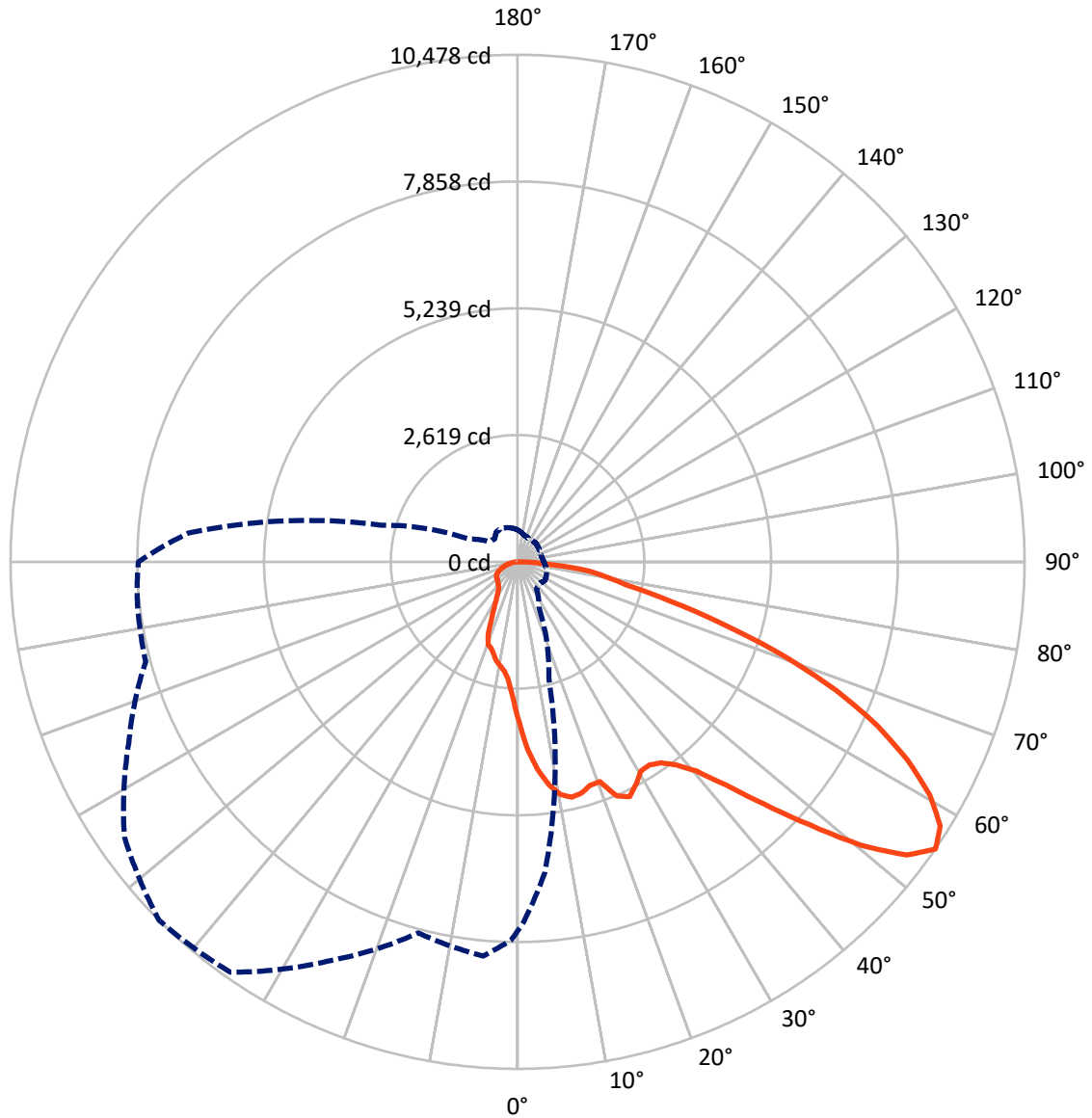
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	2868.7	0.0	2868.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	10245.8	0.0	10245.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	13114.5	0.0	13114.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.9	2.1
10°-20°	740.0	5.6
20°-30°	1278.5	9.7
30°-40°	1485.8	11.3
40°-50°	2072.9	15.8
50°-60°	2812.8	21.4
60°-70°	2676.0	20.4
70°-80°	1445.6	11.0
80°-90°	324.0	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°	13114.5	100.0
0°-180°	13114.5	100.0

Coefficient of Utilization



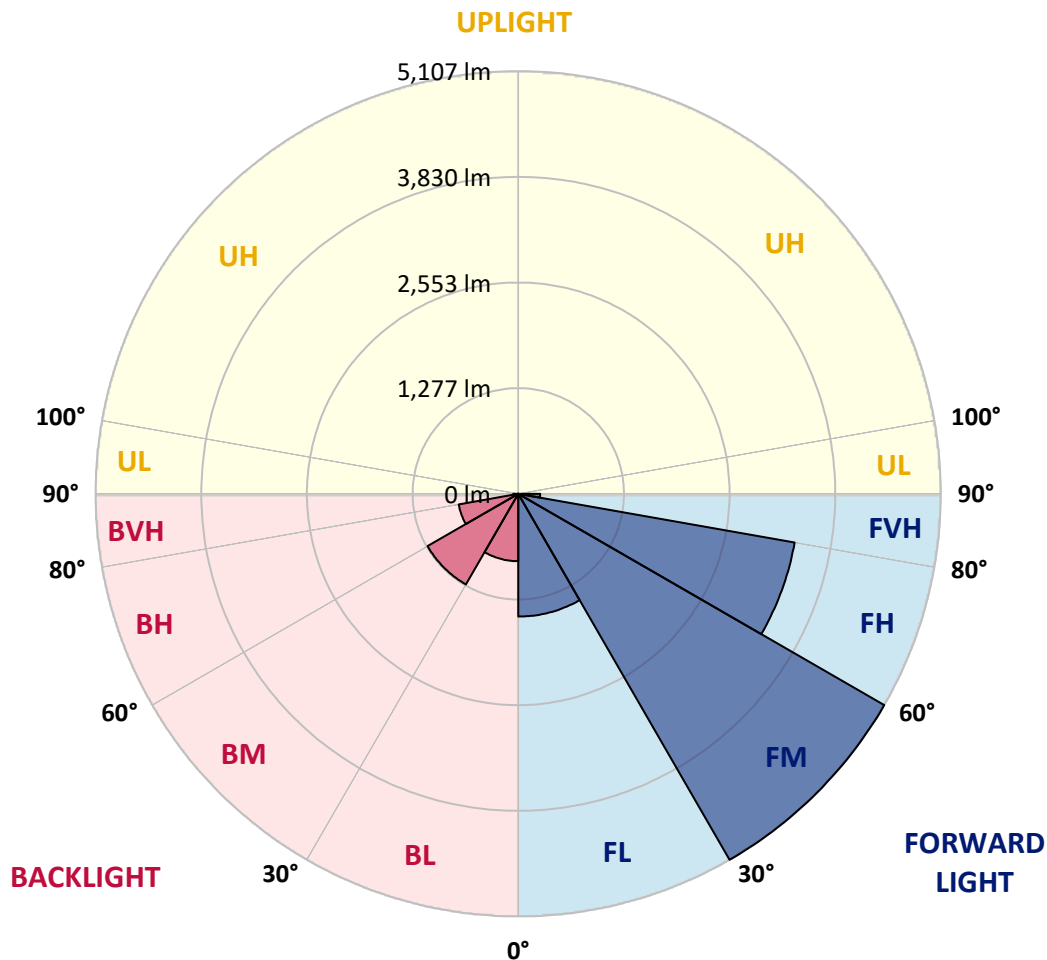
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1483.3	11.3			
FM (30°-60°)	5106.5	38.9			
FH (60°-80°)	3391.2	25.9			G2/5000
FVH (80°-90°)	264.8	2.0			G3/500
BL (0°-30°)	814.2	6.2	B2/1000		
BM (30°-60°)	1264.9	9.6	B2/2500		
BH (60°-80°)	730.4	5.6	B2/1000		G2/1000
BVH (80°-90°)	59.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3291.3	3291.3	3291.3	3291.3	3291.3	3291.3	3291.3	3291.3	3291.3	3291.3	3291.3
2.5°	3656.3	3642.5	3603.6	3501.5	3398.6	3293.9	3213.4	3113.0	3008.3	2952.1	2880.3
5°	3706.5	3691.0	3599.2	3369.1	3160.6	2941.7	2766.9	2613.7	2551.5	2459.8	2386.3
7.5°	3588.9	3582.0	3444.4	3113.9	2828.4	2542.0	2343.9	2221.0	2109.4	2067.9	2076.5
10°	3481.6	3453.9	3281.8	2850.0	2516.9	2284.2	2142.3	2022.0	1943.2	1922.5	1926.8
12.5°	3392.5	3355.3	3152.0	2672.6	2381.0	2195.0	2014.2	1888.7	1816.9	1836.8	1904.3
15°	3374.3	3324.1	3097.4	2612.1	2306.6	2067.0	1868.9	1724.4	1670.7	1714.0	1822.1
17.5°	3492.0	3428.8	3190.8	2632.0	2235.7	1936.3	1693.2	1527.9	1482.9	1552.1	1693.2
20°	3870.0	3776.6	3482.4	2747.0	2228.7	1871.5	1591.1	1425.0	1444.0	1575.5	1722.6
22.5°	4569.2	4429.0	3992.9	2914.9	2265.1	1855.0	1570.3	1483.9	1588.5	1700.2	1797.0
25°	4707.6	4597.7	4084.7	2952.9	2257.3	1843.7	1629.2	1672.4	1789.2	1844.6	1810.8
27.5°	4785.5	4660.0	4078.6	2764.4	2018.5	1672.4	1557.4	1629.2	1658.6	1605.0	1513.2
30°	4967.1	4836.5	4181.5	2566.2	1662.1	1240.7	1087.6	1058.1	1078.1	1088.4	1055.5
32.5°	5217.2	5088.3	4375.3	2436.4	1437.1	1026.1	875.6	834.0	824.5	813.3	800.3
35°	5540.8	5342.6	4565.7	2353.4	1344.5	949.2	810.7	778.7	765.7	750.2	736.3
37.5°	5869.6	5661.9	4806.2	2266.0	1283.1	895.5	767.4	752.7	730.2	713.8	693.9
40°	6219.1	5986.3	5025.1	2189.8	1223.4	860.8	736.3	734.5	705.2	686.1	662.7
42.5°	6522.0	6282.3	5220.7	2143.1	1177.6	824.5	717.3	722.4	692.1	663.6	633.4
45°	6762.5	6527.1	5401.5	2143.1	1140.3	788.2	713.8	710.3	680.0	644.5	610.0
47.5°	6973.6	6730.4	5578.0	2197.6	1117.0	757.9	694.8	700.8	669.7	624.7	591.0
50°	7137.1	6922.5	5815.9	2282.4	1093.6	733.7	670.5	703.4	661.0	614.3	575.3
52.5°	7345.6	7153.5	6102.3	2398.4	1073.7	706.9	648.9	703.4	660.2	615.2	572.8
55°	7634.6	7432.1	6447.5	2494.4	1041.7	681.8	629.9	683.5	657.6	610.8	565.8
57.5°	7837.0	7685.6	6691.5	2558.4	995.8	649.8	612.6	664.5	646.3	594.4	545.1
58°	7846.5	7698.6	6727.0	2573.1	984.6	643.7	608.2	655.8	641.1	587.4	538.2
60°	7737.5	7610.4	6733.9	2552.4	920.6	613.4	585.8	620.3	613.4	546.8	501.0
62.5°	7341.3	7205.4	6454.4	2383.6	835.8	576.3	551.1	572.8	557.2	489.7	447.3
65°	6778.0	6528.0	5879.9	2118.9	775.2	536.4	504.4	506.1	489.7	441.3	404.0
67.5°	6027.9	5748.4	4978.4	1785.8	729.4	492.3	449.0	444.7	424.8	393.7	363.4
70°	5104.7	4913.5	4045.7	1452.7	678.4	443.9	386.8	384.2	372.1	348.7	321.9
72.5°	4137.4	3894.3	3267.0	1162.9	616.0	397.1	328.7	334.0	318.4	301.9	277.7
75°	3053.3	2894.1	2525.5	932.7	532.1	346.1	274.3	276.0	269.1	251.8	232.7
77.5°	2010.7	1963.1	1806.6	612.6	409.2	275.2	224.1	225.8	220.6	205.0	185.2
80°	1353.2	1321.1	1224.2	394.5	273.4	199.0	173.1	174.8	173.9	157.4	130.6
82.5°	834.0	820.2	789.0	266.5	189.5	142.7	114.2	119.4	128.9	110.8	89.1
85°	393.7	394.5	476.8	145.3	111.6	91.8	62.3	66.6	66.6	66.6	50.2
87.5°	51.0	53.7	65.8	61.4	40.7	34.6	22.5	19.0	16.4	21.6	15.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3291.3	3291.3	3291.3	3291.3	3291.3	3291.3	3291.3	3291.3	3291.3	3291.3	3291.3
2.5°	2855.2	2837.9	2800.7	2792.0	2786.8	2801.5	2762.6	2772.9	2755.7	2804.1	2796.3
5°	2390.5	2392.3	2422.6	2442.5	2449.4	2442.5	2416.5	2371.5	2336.9	2323.1	2326.5
7.5°	2060.0	2090.3	2142.3	2200.2	2253.0	2268.6	2253.9	2168.2	2074.7	2016.0	1996.9
10°	1950.2	1990.8	2050.5	2096.4	2143.1	2180.3	2188.1	2121.5	2010.7	1871.5	1816.9
12.5°	1956.3	2011.6	2068.7	2083.4	2079.1	2093.8	2086.9	2075.6	2002.9	1825.6	1734.7
15°	1899.1	1964.9	2004.7	1996.9	1983.1	1970.0	1951.9	1923.4	1897.4	1772.8	1672.4
17.5°	1767.6	1835.1	1867.9	1870.6	1870.6	1867.1	1823.0	1812.6	1809.2	1748.6	1687.1
20°	1791.8	1829.0	1814.4	1790.1	1797.0	1820.4	1794.4	1789.2	1809.2	1836.0	1824.7
22.5°	1805.7	1792.7	1682.0	1574.7	1550.5	1623.1	1637.8	1695.8	1776.3	1873.2	1936.3
25°	1720.0	1615.3	1417.2	1296.1	1227.7	1295.2	1383.4	1490.8	1611.0	1735.6	1809.2
27.5°	1437.9	1358.4	1216.5	1107.4	1047.8	1058.1	1133.4	1231.2	1342.8	1426.8	1480.3
30°	1083.2	1047.8	974.2	937.0	900.7	892.0	924.0	961.3	1010.5	1021.0	1034.8
32.5°	797.7	792.6	796.8	784.7	777.8	776.9	767.4	776.1	781.3	787.3	775.2
35°	721.6	714.7	702.6	699.1	694.8	696.5	692.1	687.9	691.3	696.5	700.0
37.5°	682.6	672.3	655.0	648.9	648.9	651.5	644.5	642.9	648.9	665.3	674.0
40°	652.4	640.3	620.3	612.6	617.7	624.7	615.2	611.7	626.4	643.7	657.6
42.5°	623.9	614.3	595.3	586.6	591.0	603.9	590.0	587.4	606.5	625.5	642.0
45°	599.5	590.0	572.8	568.4	570.2	582.3	572.8	572.8	591.0	611.7	626.4
47.5°	580.5	568.4	557.2	553.7	555.5	562.4	560.7	560.7	577.9	599.5	614.3
50°	561.5	551.1	536.4	538.2	542.4	552.0	551.1	553.7	571.0	597.9	613.4
52.5°	552.9	537.3	520.8	522.6	535.5	546.8	543.4	546.0	565.8	616.0	638.5
55°	543.4	522.6	503.6	506.1	520.8	537.3	532.9	536.4	559.8	628.1	659.3
57.5°	525.2	501.0	480.2	481.9	503.6	520.8	513.9	518.2	546.0	615.2	648.1
58°	517.4	496.6	476.8	477.6	498.4	517.4	509.6	513.1	541.6	611.7	642.9
60°	484.5	472.4	455.1	456.0	475.8	492.3	487.9	491.4	519.1	586.6	610.0
62.5°	439.5	432.6	428.2	428.2	440.3	456.0	460.3	464.7	489.7	530.3	551.1
65°	391.1	391.1	391.9	391.9	399.7	419.7	422.2	433.5	456.8	476.8	492.3
67.5°	358.2	356.5	358.2	353.9	357.3	369.5	382.4	392.8	417.1	430.8	436.1
70°	315.8	315.0	315.8	309.7	314.0	324.5	333.1	350.4	375.5	385.9	388.5
72.5°	274.3	274.3	276.0	271.6	271.6	282.9	289.0	308.0	331.4	337.4	338.3
75°	231.0	233.6	233.6	227.6	229.3	236.2	244.0	259.5	281.2	285.5	285.5
77.5°	183.4	192.9	192.9	186.9	189.5	190.3	200.7	208.5	225.0	226.6	219.8
80°	133.2	142.7	150.5	145.3	149.7	144.5	150.5	155.8	172.2	164.4	153.1
82.5°	95.2	102.1	108.2	109.0	104.7	95.2	102.9	103.9	111.6	101.3	95.2
85°	52.8	58.9	66.6	63.2	56.3	50.2	52.8	54.5	53.7	51.0	47.6
87.5°	13.9	14.7	16.4	12.1	11.3	9.5	13.0	13.0	14.7	15.6	14.7
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°	3291.3	3291.3	3291.3	3291.3	3291.3	3291.3	3291.3	3291.3	3291.3	3291.3	3291.3
2.5°	2802.4	2840.5	2922.6	2985.0	3061.1	3153.7	3262.7	3372.6	3491.1	3528.3	3580.2
5°	2318.7	2413.9	2453.7	2567.1	2679.5	2848.2	3028.2	3236.8	3465.2	3575.0	3680.6
7.5°	1981.3	2032.4	2073.9	2157.0	2291.9	2497.0	2722.8	2983.2	3306.8	3466.9	3621.8
10°	1799.7	1804.8	1855.8	1958.9	2076.5	2257.3	2471.0	2762.6	3123.4	3318.1	3499.7
12.5°	1679.4	1656.9	1712.3	1819.5	1952.8	2119.7	2316.1	2593.9	2991.0	3190.8	3410.7
15°	1573.8	1538.4	1579.9	1689.7	1821.3	2017.6	2228.7	2522.9	2939.1	3171.8	3415.8
17.5°	1576.4	1478.6	1493.4	1586.0	1716.6	1916.5	2172.6	2520.3	3017.8	3286.0	3575.0
20°	1771.1	1614.5	1547.9	1565.2	1691.5	1909.5	2198.5	2641.5	3276.5	3667.6	3976.5
22.5°	1962.3	1867.9	1760.7	1725.2	1794.4	2022.9	2363.7	2927.9	3838.9	4428.1	4986.2
25°	1895.7	1976.1	1949.3	1899.1	1914.7	2104.2	2476.2	3163.2	4275.8	4939.4	5463.8
27.5°	1516.7	1662.9	1692.3	1691.5	1697.6	1853.2	2227.1	3004.9	4330.4	5037.3	5538.2
30°	1066.0	1078.9	1094.5	1124.8	1152.4	1291.8	1742.6	2638.0	4306.1	5081.3	5583.1
32.5°	769.2	786.5	808.1	849.7	915.4	1092.8	1524.5	2521.2	4434.2	5263.9	5714.7
35°	703.4	723.3	744.1	791.6	854.0	1018.4	1437.9	2472.8	4644.4	5559.8	5950.9
37.5°	682.6	705.2	723.3	757.9	808.1	964.7	1359.2	2439.9	4859.9	5873.0	6267.6
40°	667.9	693.9	708.6	736.3	770.9	915.4	1289.2	2413.9	5068.4	6159.4	6522.0
42.5°	655.0	681.8	700.8	720.7	749.2	871.3	1226.9	2387.9	5249.2	6437.1	6775.4
45°	639.4	673.1	697.4	712.9	738.1	834.0	1179.3	2367.2	5455.1	6683.7	7031.5
47.5°	626.4	663.6	693.9	712.1	721.6	808.1	1141.2	2395.8	5702.6	6941.5	7269.4
50°	627.3	662.7	700.8	729.4	704.3	786.5	1117.9	2509.1	6024.4	7247.8	7457.2
52.5°	655.0	698.2	728.5	735.5	680.0	760.5	1105.7	2707.3	6405.1	7518.6	7646.7
55°	686.1	731.1	764.0	759.7	667.1	727.6	1103.1	2918.4	6822.1	7834.4	7893.3
57.5°	674.8	740.6	790.8	768.3	667.9	695.6	1091.9	3088.7	7170.8	8070.7	8137.3
58°	671.4	737.1	794.2	766.6	665.3	686.1	1089.3	3103.5	7219.3	8087.1	8171.8
60°	637.6	706.9	791.6	753.6	650.6	660.2	1060.8	3151.1	7206.3	8002.3	8192.6
62.5°	576.3	633.4	731.9	690.5	605.6	625.5	996.8	3092.3	6855.0	7593.9	7888.9
65°	507.0	549.4	615.2	607.4	541.6	590.0	909.3	2859.5	6151.6	6931.2	7241.8
67.5°	455.1	489.7	531.3	520.0	487.1	542.4	815.0	2465.8	5362.6	6135.2	6526.2
70°	402.3	429.2	449.9	442.1	431.8	495.8	731.1	2001.2	4606.3	5379.0	5757.9
72.5°	348.7	373.7	391.1	379.8	373.7	446.5	662.7	1553.1	3638.2	4437.6	4924.7
75°	291.6	316.6	328.7	315.8	312.3	393.7	561.5	1160.2	2729.7	3421.0	3841.5
77.5°	225.8	252.6	268.2	263.9	265.6	323.6	453.4	794.2	1951.9	2331.8	2774.7
80°	158.4	187.7	198.1	193.8	205.9	246.6	320.1	504.4	1346.3	1513.2	1825.6
82.5°	97.8	125.5	127.2	131.5	140.2	182.6	241.4	307.1	845.3	873.9	1100.5
85°	49.3	59.7	64.0	71.0	78.7	111.6	137.6	190.3	544.2	411.8	615.2
87.5°	16.4	17.3	20.8	26.0	32.0	45.8	58.9	77.9	135.0	74.4	190.3
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3291.3	3291.3	3291.3	3291.3	3291.3	3291.3	3291.3	3291.3	3291.3	3291.3
2.5°	3684.9	3758.4	3812.1	3861.5	3813.9	3809.5	3762.8	3687.5	3656.3	3656.3
5°	3902.1	4074.2	4213.6	4302.6	4264.6	4172.9	4021.5	3828.6	3724.7	3706.5
7.5°	3961.8	4301.8	4560.5	4652.2	4588.2	4385.7	4095.9	3770.5	3621.8	3588.9
10°	3925.5	4367.6	4747.4	4892.8	4803.6	4497.3	4102.0	3703.1	3519.7	3481.6
12.5°	3887.4	4376.2	4782.0	4992.3	4934.2	4587.3	4146.0	3658.9	3447.0	3392.5
15°	3915.0	4379.7	4739.6	4956.8	4993.9	4695.5	4218.7	3691.0	3432.3	3374.3
17.5°	4089.9	4445.4	4679.1	4854.7	4985.3	4842.6	4425.5	3844.1	3563.8	3492.0
20°	4454.9	4602.9	4713.6	4849.5	5059.7	5142.8	4848.6	4264.6	3933.2	3870.0
22.5°	5512.3	5485.4	5258.7	5256.1	5560.7	5893.8	5873.9	5119.4	4621.0	4569.2
25°	5908.4	5783.9	5456.0	5376.3	5510.5	6024.4	5950.0	5294.2	4833.9	4707.6
27.5°	5753.6	5444.7	5229.3	5211.2	5167.0	5652.4	5831.5	5365.2	4908.3	4785.5
30°	5744.1	5289.9	4981.8	5018.2	5060.5	5524.4	5897.3	5587.5	5098.6	4967.1
32.5°	5767.5	5311.5	5000.0	5007.0	5133.3	5543.4	5969.9	5829.7	5348.7	5217.2
35°	5861.8	5434.4	5116.0	5099.5	5296.8	5667.9	6093.6	6210.4	5690.5	5540.8
37.5°	6014.1	5679.2	5327.9	5323.6	5610.0	5892.9	6247.6	6594.6	6030.5	5869.6
40°	6238.1	5965.5	5705.2	5681.8	6035.7	6258.9	6447.5	7003.8	6425.9	6219.1
42.5°	6508.9	6309.1	6202.6	6295.2	6635.2	6669.9	6758.9	7382.0	6762.5	6522.0
45°	6759.9	6750.4	6898.3	7144.0	7342.1	7134.5	7084.3	7635.4	7023.7	6762.5
47.5°	7058.3	7316.2	7762.6	8122.5	8330.2	7675.2	7362.0	7800.7	7214.1	6973.6
50°	7361.2	7993.6	8706.5	9208.4	9252.5	8262.7	7553.3	7956.4	7387.1	7137.1
52.5°	7679.6	8534.4	9483.5	10066.7	9981.0	8774.1	7738.4	8062.0	7565.4	7345.6
55°	7956.4	8865.7	9917.8	10477.6	10352.2	9085.5	7938.3	8176.2	7819.7	7634.6
57.5°	8111.3	8893.4	9809.7	10298.5	10162.7	9024.9	8030.0	8261.0	7982.4	7837.0
58°	8133.8	8856.2	9713.6	10194.7	10056.3	8973.9	8029.1	8257.5	7992.8	7846.5
60°	8113.9	8614.9	9356.3	9784.6	9639.3	8653.8	7996.2	8192.6	7861.2	7737.5
62.5°	7929.6	8196.0	8739.4	9050.9	9009.4	8153.7	7861.2	7947.8	7460.7	7341.3
65°	7687.3	7625.1	7949.5	8170.1	8201.3	7779.1	7727.1	7418.3	6946.7	6778.0
67.5°	7393.1	6977.9	6977.0	7102.5	7154.4	7202.8	7447.7	6842.9	6206.1	6027.9
70°	6893.9	5980.3	5705.2	5853.1	5809.9	6219.1	6948.4	6034.8	5313.2	5104.7
72.5°	5978.6	4745.7	4305.2	4495.6	4386.6	4877.1	6079.8	4966.3	4393.6	4137.4
75°	4846.0	3549.9	3095.7	3270.5	3202.9	3699.6	5058.9	3607.0	3151.1	3053.3
77.5°	3762.8	2572.3	2308.4	2284.2	2334.4	2753.1	3710.8	2435.5	2077.4	2010.7
80°	2417.4	1841.1	1856.8	1825.6	1851.5	1735.6	2253.0	1553.9	1406.8	1353.2
82.5°	1591.1	1283.1	1529.7	1412.0	1341.1	1167.1	1477.8	1017.4	863.5	834.0
85°	1084.1	944.8	860.0	657.6	774.4	898.9	1108.4	547.7	434.3	393.7
87.5°	489.7	328.7	241.4	148.9	235.3	271.6	538.2	64.0	49.3	51.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)