

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: P652346

Luminaire Tested: **GALN-SA4B-840-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652346
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-SA4B-840-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 800mA 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: 16317.9 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

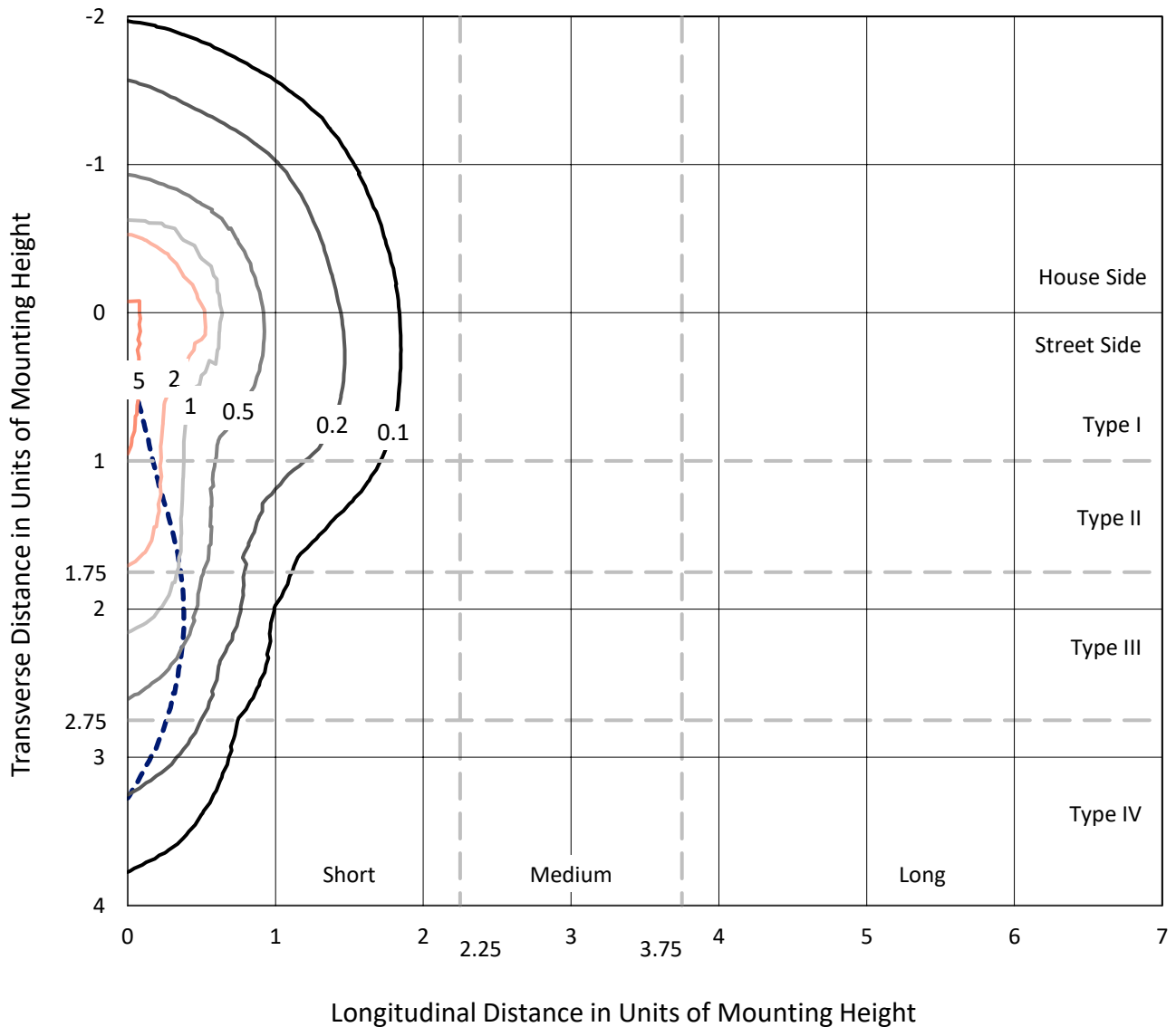
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

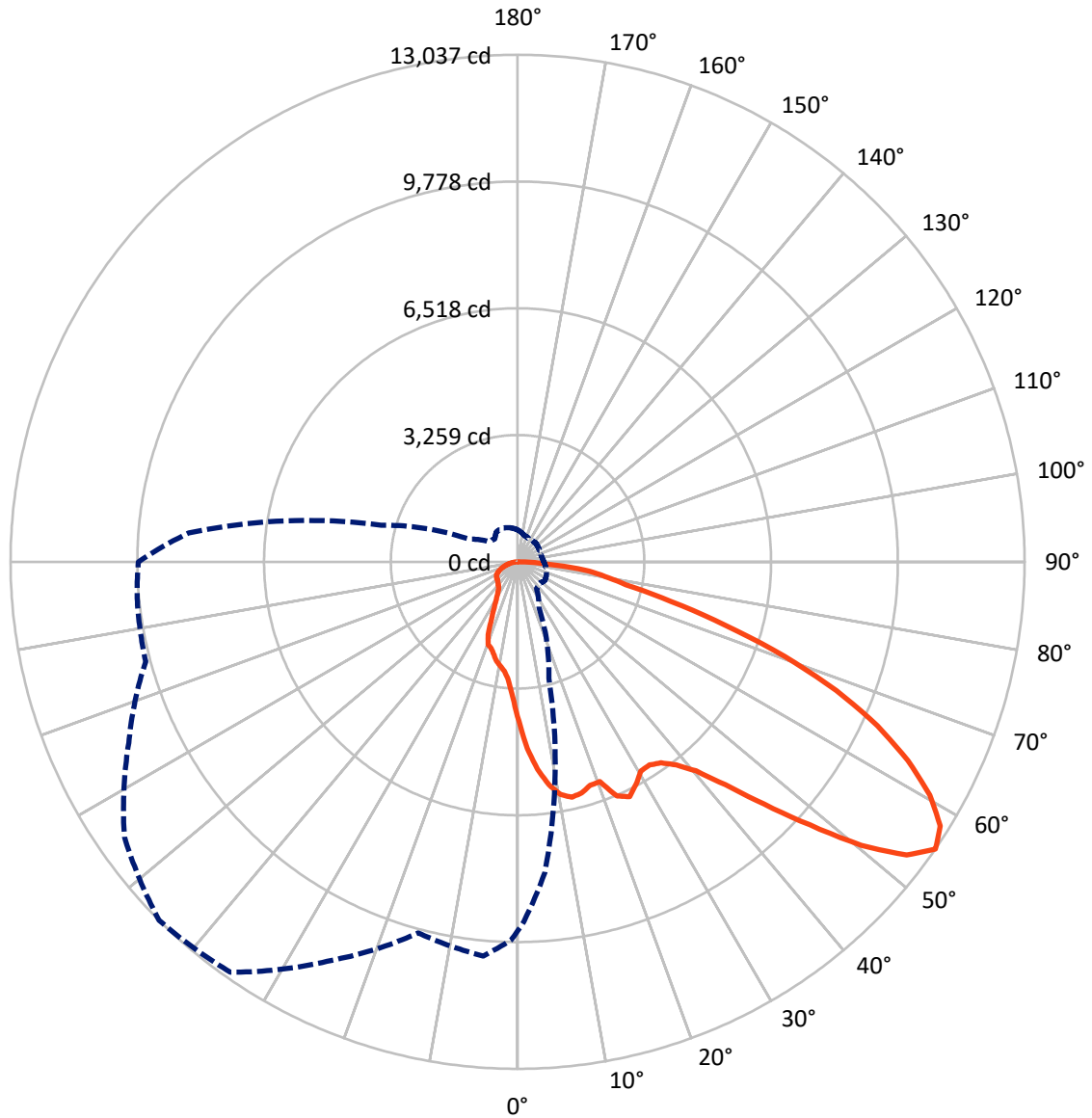
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	3569.5	0.0	3569.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	12748.5	0.0	12748.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	16317.9	0.0	16317.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.1	2.1
10°-20°	920.8	5.6
20°-30°	1590.7	9.7
30°-40°	1848.7	11.3
40°-50°	2579.3	15.8
50°-60°	3499.8	21.4
60°-70°	3329.6	20.4
70°-80°	1798.8	11.0
80°-90°	403.1	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°	16317.9	100.0
0°-180°	16317.9	100.0

Coefficient of Utilization

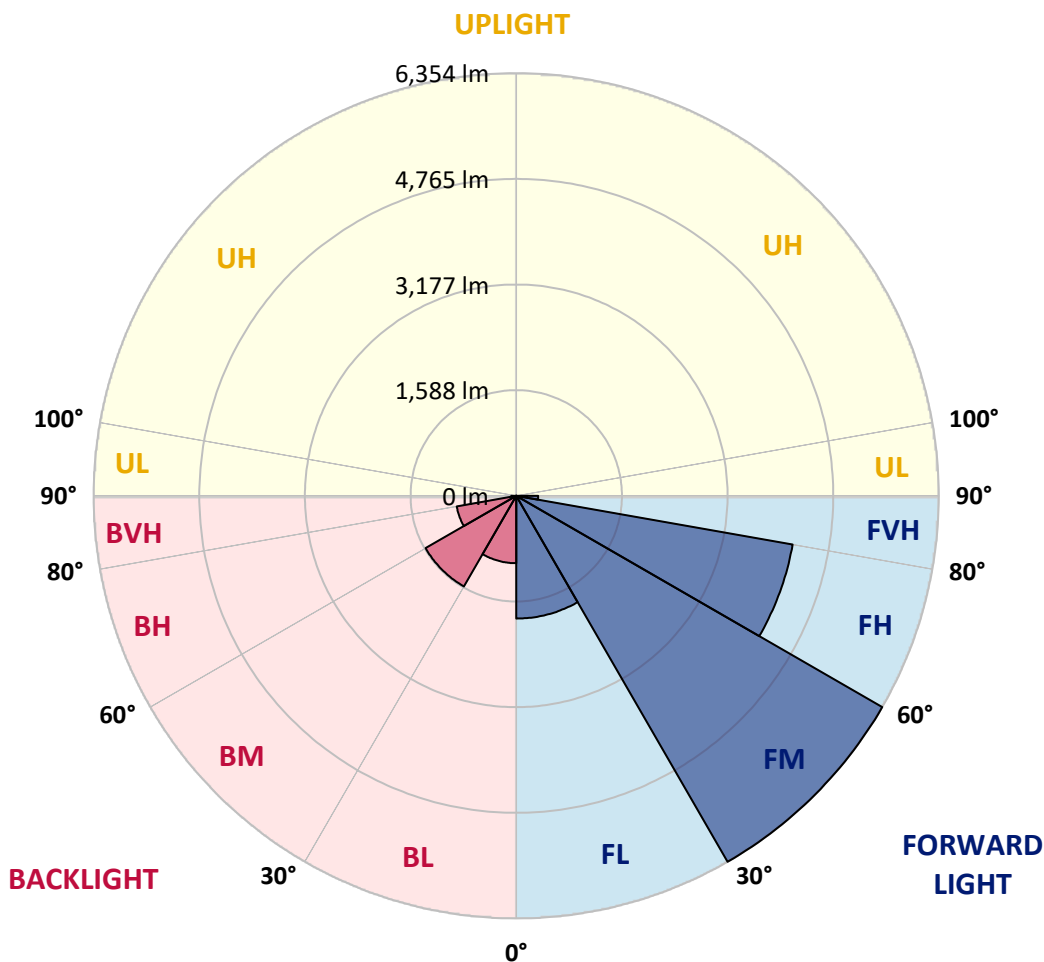


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1845.6	11.3			
FM (30°-60°)	6353.9	38.9			
FH (60°-80°)	4219.5	25.9			G2/5000
FVH (80°-90°)	329.5	2.0			G3/500
BL (0°-30°)	1013.0	6.2	B3/2500		
BM (30°-60°)	1573.9	9.6	B2/2500		
BH (60°-80°)	908.9	5.6	B2/1000		G2/1000
BVH (80°-90°)	73.7	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°	4095.2	4095.2	4095.2	4095.2	4095.2	4095.2	4095.2	4095.2	4095.2	4095.2	4095.2
2.5°	4549.5	4532.2	4483.8	4356.8	4228.6	4098.4	3998.3	3873.4	3743.1	3673.2	3583.8
5°	4611.9	4592.5	4478.4	4192.0	3932.6	3660.2	3442.8	3252.2	3174.7	3060.6	2969.1
7.5°	4465.5	4456.9	4285.7	3874.5	3519.2	3162.9	2916.3	2763.4	2624.6	2573.0	2583.7
10°	4332.0	4297.5	4083.3	3546.2	3131.6	2842.1	2665.5	2515.9	2417.9	2392.1	2397.4
12.5°	4221.1	4174.8	3921.8	3325.4	2962.7	2731.1	2506.2	2350.1	2260.8	2285.5	2369.4
15°	4198.5	4136.0	3854.1	3250.0	2870.1	2571.9	2325.4	2145.6	2078.8	2132.6	2267.2
17.5°	4344.9	4266.3	3970.3	3274.9	2781.8	2409.3	2106.8	1901.2	1845.2	1931.3	2106.8
20°	4815.4	4699.1	4333.1	3418.0	2773.2	2328.6	1979.8	1773.1	1796.7	1960.4	2143.4
22.5°	5685.2	5510.8	4968.2	3626.9	2818.4	2308.1	1953.9	1846.2	1976.5	2115.4	2236.0
25°	5857.5	5720.7	5082.3	3674.2	2808.7	2294.1	2027.1	2081.0	2226.3	2295.2	2253.2
27.5°	5954.4	5798.3	5074.8	3439.5	2511.6	2081.0	1937.7	2027.1	2063.7	1997.0	1882.8
30°	6180.4	6017.9	5202.9	3193.0	2068.0	1543.7	1353.3	1316.6	1341.4	1354.3	1313.4
32.5°	6491.5	6331.1	5444.0	3031.6	1788.1	1276.8	1089.4	1037.8	1025.9	1012.0	995.8
35°	6894.2	6647.6	5680.9	2928.2	1672.9	1180.9	1008.7	968.9	952.8	933.3	916.1
37.5°	7303.2	7044.9	5980.2	2819.5	1596.5	1114.2	954.9	936.6	908.6	888.2	863.4
40°	7738.2	7448.6	6252.6	2724.8	1522.2	1071.2	916.1	914.0	877.4	853.7	824.6
42.5°	8115.0	7816.8	6495.9	2666.6	1465.2	1025.9	892.5	898.9	861.3	825.7	788.0
45°	8414.2	8121.5	6720.9	2666.6	1418.9	980.7	888.2	883.8	846.1	802.1	759.0
47.5°	8676.9	8374.4	6940.4	2734.4	1389.8	943.0	864.5	872.0	833.3	777.3	735.3
50°	8880.4	8613.4	7236.5	2839.9	1360.7	912.9	834.4	875.2	822.5	764.4	715.9
52.5°	9139.8	8900.8	7592.9	2984.2	1336.0	879.5	807.4	875.2	821.4	765.4	712.7
55°	9499.4	9247.5	8022.4	3103.6	1296.1	848.3	783.7	850.5	818.2	760.0	704.1
57.5°	9751.3	9562.9	8326.0	3183.4	1239.1	808.5	762.2	826.8	804.2	739.6	678.2
58°	9763.2	9579.1	8370.1	3201.6	1225.1	801.0	756.8	816.0	797.7	731.0	669.6
60°	9627.5	9469.2	8378.7	3175.8	1145.4	763.3	728.8	771.9	763.3	680.4	623.3
62.5°	9134.4	8965.4	8031.0	2965.9	1039.9	717.0	685.8	712.7	693.3	609.3	556.6
65°	8433.6	8122.5	7316.2	2636.5	964.5	667.4	627.6	629.7	609.3	549.0	502.7
67.5°	7500.3	7152.5	6194.4	2222.0	907.5	612.6	558.8	553.4	528.6	489.8	452.1
70°	6351.6	6113.6	5033.9	1807.5	844.0	552.3	481.2	478.0	462.9	433.9	400.5
72.5°	5148.0	4845.5	4065.1	1446.9	766.5	494.2	409.1	415.5	396.2	375.7	345.6
75°	3799.1	3601.0	3142.4	1160.5	662.0	430.6	341.3	343.4	334.8	313.3	289.6
77.5°	2501.9	2442.7	2247.8	762.2	509.2	342.4	278.8	281.0	274.5	255.2	230.3
80°	1683.7	1643.9	1523.3	490.9	340.2	247.6	215.3	217.5	216.4	196.0	162.6
82.5°	1037.8	1020.6	981.8	331.6	235.7	177.6	142.1	148.5	160.4	137.8	110.8
85°	489.8	490.9	593.2	180.9	138.8	114.1	77.5	82.9	82.9	82.9	62.4
87.5°	63.5	66.8	81.8	76.4	50.6	43.1	28.0	23.7	20.4	26.9	19.3
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°	4095.2	4095.2	4095.2	4095.2	4095.2	4095.2	4095.2	4095.2	4095.2	4095.2	4095.2
2.5°	3552.6	3531.0	3484.8	3474.0	3467.5	3485.9	3437.4	3450.3	3428.8	3489.1	3479.4
5°	2974.4	2976.6	3014.3	3039.0	3047.7	3039.0	3006.7	2950.8	2907.8	2890.5	2894.8
7.5°	2563.3	2601.0	2665.5	2737.6	2803.3	2822.6	2804.4	2697.8	2581.5	2508.4	2484.7
10°	2426.5	2477.1	2551.4	2608.4	2666.6	2712.9	2722.6	2639.6	2501.9	2328.6	2260.8
12.5°	2434.0	2503.0	2574.0	2592.3	2586.9	2605.2	2596.6	2582.6	2492.2	2271.5	2158.4
15°	2363.0	2444.8	2494.3	2484.7	2467.4	2451.3	2428.6	2393.1	2360.9	2205.9	2081.0
17.5°	2199.4	2283.3	2324.3	2327.5	2327.5	2323.2	2268.3	2255.4	2251.0	2175.7	2099.2
20°	2229.5	2275.8	2257.5	2227.4	2236.0	2265.1	2232.8	2226.3	2251.0	2284.4	2270.4
22.5°	2246.7	2230.6	2092.8	1959.3	1929.2	2019.6	2037.9	2110.0	2210.1	2330.7	2409.3
25°	2140.2	2009.9	1763.4	1612.6	1527.6	1611.6	1721.4	1854.9	2004.5	2159.5	2251.0
27.5°	1789.2	1690.2	1513.6	1378.0	1303.7	1316.6	1410.3	1531.9	1670.8	1775.2	1842.0
30°	1347.9	1303.7	1212.2	1165.9	1120.7	1110.0	1149.7	1196.1	1257.4	1270.3	1287.6
32.5°	992.5	986.1	991.5	976.4	967.8	966.7	954.9	965.6	972.1	979.7	964.5
35°	897.9	889.2	874.1	869.8	864.5	866.7	861.3	855.9	860.2	866.7	870.9
37.5°	849.4	836.5	814.9	807.4	807.4	810.6	802.1	799.9	807.4	827.9	838.6
40°	811.7	796.7	771.9	762.2	768.7	777.3	765.4	761.1	779.4	801.0	818.2
42.5°	776.2	764.4	740.7	729.9	735.3	751.4	734.2	731.0	754.6	778.3	798.8
45°	746.1	734.2	712.7	707.3	709.5	724.5	712.7	712.7	735.3	761.1	779.4
47.5°	722.3	707.3	693.3	688.9	691.1	699.7	697.6	697.6	719.1	746.1	764.4
50°	698.7	685.8	667.4	669.6	675.0	686.8	685.8	688.9	710.5	743.9	763.3
52.5°	687.9	668.5	648.1	650.3	666.4	680.4	676.1	679.3	704.1	766.5	794.5
55°	676.1	650.3	626.5	629.7	648.1	668.5	663.1	667.4	696.5	781.5	820.3
57.5°	653.5	623.3	597.4	599.6	626.5	648.1	639.5	644.9	679.3	765.4	806.4
58°	643.8	618.0	593.2	594.3	620.1	643.8	634.1	638.4	673.9	761.1	799.9
60°	602.8	587.8	566.2	567.3	592.1	612.6	607.2	611.5	645.9	729.9	759.0
62.5°	546.9	538.2	532.9	532.9	548.0	567.3	572.7	578.1	609.3	659.9	685.8
65°	486.6	486.6	487.7	487.7	497.4	522.1	525.4	539.3	568.4	593.2	612.6
67.5°	445.6	443.5	445.6	440.3	444.6	459.7	475.8	488.8	518.9	536.1	542.6
70°	392.9	391.8	392.9	385.4	390.8	403.7	414.4	436.0	467.3	480.1	483.4
72.5°	341.3	341.3	343.4	338.0	338.0	352.0	359.5	383.2	412.3	419.8	420.9
75°	287.5	290.6	290.6	283.2	285.3	293.9	303.6	322.9	349.9	355.2	355.2
77.5°	228.2	240.1	240.1	232.5	235.7	236.8	249.8	259.4	279.9	282.1	273.4
80°	165.8	177.6	187.3	180.9	186.3	179.8	187.3	193.8	214.2	204.5	190.6
82.5°	118.4	127.0	134.6	135.7	130.3	118.4	128.1	129.2	138.8	126.0	118.4
85°	65.7	73.2	82.9	78.5	70.0	62.4	65.7	67.8	66.8	63.5	59.2
87.5°	17.2	18.3	20.4	15.1	14.0	11.9	16.1	16.1	18.3	19.3	18.3
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4095.2	4095.2	4095.2	4095.2	4095.2	4095.2	4095.2	4095.2	4095.2	4095.2	4095.2
2.5°	3487.0	3534.3	3636.6	3714.0	3808.8	3924.0	4059.7	4196.3	4343.8	4390.1	4454.7
5°	2885.1	3003.5	3053.1	3194.1	3334.1	3544.0	3767.9	4027.4	4311.6	4448.3	4579.6
7.5°	2465.3	2528.8	2580.4	2683.8	2851.7	3106.9	3387.9	3711.9	4114.5	4313.7	4506.4
10°	2239.2	2245.6	2309.2	2437.3	2583.7	2808.7	3074.6	3437.4	3886.3	4128.6	4354.6
12.5°	2089.5	2061.5	2130.5	2264.0	2429.7	2637.5	2881.9	3227.5	3721.6	3970.3	4243.7
15°	1958.3	1914.1	1965.8	2102.5	2266.2	2510.5	2773.2	3139.2	3657.0	3946.6	4250.2
17.5°	1961.5	1839.8	1858.1	1973.3	2135.9	2384.6	2703.2	3136.0	3755.0	4088.7	4448.3
20°	2203.7	2008.8	1925.9	1947.5	2104.6	2375.9	2735.5	3286.7	4076.8	4563.4	4947.8
22.5°	2441.6	2324.3	2190.7	2146.7	2232.8	2516.9	2941.1	3643.0	4776.6	5509.7	6204.1
25°	2358.7	2458.8	2425.4	2363.0	2382.4	2618.1	3081.1	3935.8	5320.3	6145.9	6798.4
27.5°	1887.2	2069.1	2105.7	2104.6	2112.2	2305.9	2771.0	3738.8	5388.1	6267.6	6890.9
30°	1326.3	1342.5	1361.8	1399.5	1434.0	1607.2	2168.2	3282.3	5357.9	6322.6	6946.9
32.5°	957.1	978.6	1005.5	1057.1	1139.0	1359.6	1896.9	3137.0	5517.3	6549.7	7110.6
35°	875.2	900.0	925.9	985.1	1062.5	1267.1	1789.2	3076.7	5778.8	6917.8	7404.4
37.5°	849.4	877.4	900.0	943.0	1005.5	1200.4	1691.3	3035.8	6047.0	7307.5	7798.4
40°	831.1	863.4	881.7	916.1	959.2	1139.0	1604.0	3003.5	6306.4	7663.9	8115.0
42.5°	814.9	848.3	872.0	896.8	932.2	1084.0	1526.5	2971.3	6531.4	8009.4	8430.4
45°	795.6	837.6	867.7	887.1	918.3	1037.8	1467.3	2945.4	6787.6	8316.3	8749.0
47.5°	779.4	825.7	863.4	886.0	897.9	1005.5	1419.9	2980.9	7095.5	8637.1	9045.1
50°	780.5	824.6	872.0	907.5	876.3	978.6	1390.9	3122.0	7495.9	9018.2	9278.7
52.5°	814.9	868.8	906.4	915.1	846.1	946.3	1375.8	3368.5	7969.7	9355.1	9514.5
55°	853.7	909.7	950.6	945.2	830.0	905.3	1372.6	3631.2	8488.5	9748.1	9821.3
57.5°	839.7	921.5	984.0	956.0	831.1	865.6	1358.6	3843.3	8922.3	10042.0	10124.9
58°	835.4	917.2	988.3	953.8	827.9	853.7	1355.4	3861.5	8982.6	10062.4	10167.9
60°	793.4	879.5	985.1	937.6	809.5	821.4	1319.9	3920.7	8966.5	9956.9	10193.8
62.5°	717.0	788.0	910.7	859.1	753.6	778.3	1240.1	3847.6	8529.4	9448.8	9815.9
65°	630.8	683.6	765.4	755.7	673.9	734.2	1131.5	3557.9	7654.2	8624.2	9010.6
67.5°	566.2	609.3	661.0	647.0	606.1	675.0	1014.1	3068.1	6672.4	7633.8	8120.4
70°	500.6	534.0	559.8	550.1	537.2	616.9	909.7	2490.0	5731.5	6692.8	7164.4
72.5°	433.9	465.1	486.6	472.6	465.1	555.5	824.6	1932.4	4526.9	5521.6	6127.7
75°	362.8	394.0	409.1	392.9	388.6	489.8	698.7	1443.7	3396.5	4256.6	4779.8
77.5°	281.0	314.4	333.7	328.3	330.5	402.6	564.1	988.3	2428.6	2901.3	3452.5
80°	197.0	233.6	246.5	241.1	256.3	306.8	398.3	627.6	1675.1	1882.8	2271.5
82.5°	121.6	156.1	158.3	163.7	174.4	227.2	300.3	382.2	1051.8	1087.3	1369.4
85°	61.4	74.3	79.6	88.3	98.0	138.8	171.1	236.8	677.2	512.4	765.4
87.5°	20.4	21.5	25.8	32.3	39.9	57.0	73.2	96.9	167.9	92.6	236.8
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°	4095.2	4095.2	4095.2	4095.2	4095.2	4095.2	4095.2	4095.2	4095.2	4095.2
2.5°	4585.0	4676.5	4743.2	4804.6	4745.4	4740.0	4681.8	4588.2	4549.5	4549.5
5°	4855.2	5069.5	5242.8	5353.6	5306.3	5192.2	5003.8	4763.7	4634.5	4611.9
7.5°	4929.5	5352.5	5674.5	5788.5	5708.9	5457.0	5096.4	4691.6	4506.4	4465.5
10°	4884.3	5434.4	5907.0	6087.8	5977.0	5595.8	5103.9	4607.6	4379.3	4332.0
12.5°	4836.9	5445.1	5950.1	6211.6	6139.6	5707.8	5158.8	4552.7	4288.9	4221.1
15°	4871.3	5449.4	5897.3	6167.5	6213.8	5842.4	5249.2	4592.5	4270.6	4198.5
17.5°	5088.8	5531.3	5821.9	6040.5	6203.0	6025.4	5506.5	4783.1	4434.3	4344.9
20°	5543.1	5727.2	5865.0	6034.0	6295.6	6398.9	6032.9	5306.3	4893.9	4815.4
22.5°	6858.6	6825.3	6543.2	6540.0	6918.9	7333.4	7308.6	6369.9	5749.8	5685.2
25°	7351.7	7196.7	6788.6	6689.7	6856.5	7495.9	7403.4	6587.4	6014.7	5857.5
27.5°	7159.0	6774.7	6506.6	6484.0	6429.1	7033.0	7255.9	6675.6	6107.3	5954.4
30°	7147.2	6582.0	6198.8	6243.9	6296.7	6873.7	7337.7	6952.3	6344.1	6180.4
32.5°	7176.3	6608.9	6221.3	6230.0	6387.1	6897.4	7428.1	7253.7	6655.2	6491.5
35°	7293.6	6761.7	6365.6	6345.1	6590.6	7052.5	7582.0	7727.4	7080.4	6894.2
37.5°	7483.0	7066.4	6629.4	6624.0	6980.3	7332.3	7773.7	8205.4	7503.5	7303.2
40°	7761.8	7422.8	7098.7	7069.6	7510.0	7787.7	8022.4	8714.6	7995.5	7738.2
42.5°	8098.8	7850.1	7717.7	7832.9	8256.0	8299.1	8409.9	9185.1	8414.2	8115.0
45°	8411.0	8399.2	8583.2	8889.0	9135.5	8877.2	8814.7	9500.4	8739.3	8414.2
47.5°	8782.4	9103.2	9658.7	10106.5	10364.9	9550.0	9160.3	9706.1	8976.2	8676.9
50°	9159.2	9946.2	10833.3	11457.6	11512.5	10281.0	9398.2	9899.8	9191.5	8880.4
52.5°	9555.4	10619.0	11800.0	12525.5	12419.0	10917.2	9628.6	10031.2	9413.3	9139.8
55°	9899.8	11031.3	12340.4	13036.9	12880.8	11304.7	9877.3	10173.3	9729.8	9499.4
57.5°	10092.6	11065.8	12205.9	12814.1	12645.0	11229.4	9991.4	10278.8	9932.1	9751.3
58°	10120.6	11019.5	12086.3	12684.9	12512.7	11165.9	9990.3	10274.5	9945.1	9763.2
60°	10095.8	10719.1	11641.7	12174.6	11993.8	10767.6	9949.4	10193.8	9781.4	9627.5
62.5°	9866.5	10198.1	10874.1	11261.7	11210.0	10145.3	9781.4	9889.1	9283.0	9134.4
65°	9565.0	9487.6	9891.3	10165.8	10204.5	9679.2	9614.6	9230.2	8643.5	8433.6
67.5°	9199.0	8682.3	8681.2	8837.3	8901.9	8962.2	9266.9	8514.4	7722.1	7500.3
70°	8577.9	7441.1	7098.7	7282.8	7229.0	7738.2	8645.7	7508.9	6611.0	6351.6
72.5°	7438.9	5904.8	5356.8	5593.7	5458.1	6068.5	7564.9	6179.3	5466.7	5148.0
75°	6029.7	4417.0	3851.9	4069.3	3985.3	4603.3	6294.5	4488.1	3920.7	3799.1
77.5°	4681.8	3200.6	2872.2	2842.1	2904.5	3425.6	4617.3	3030.5	2584.8	2501.9
80°	3007.8	2290.9	2310.2	2271.5	2303.8	2159.5	2803.3	1933.5	1750.5	1683.7
82.5°	1979.8	1596.5	1903.4	1756.9	1668.6	1452.2	1838.8	1266.0	1074.4	1037.8
85°	1348.9	1175.5	1070.1	818.2	963.5	1118.5	1379.1	681.5	540.4	489.8
87.5°	609.3	409.1	300.3	185.2	292.8	338.0	669.6	79.6	61.4	63.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)