

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: P647341

Luminaire Tested: **GALN-SA3D-835-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647341
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-SA3D-835-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA 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: 15586.4 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

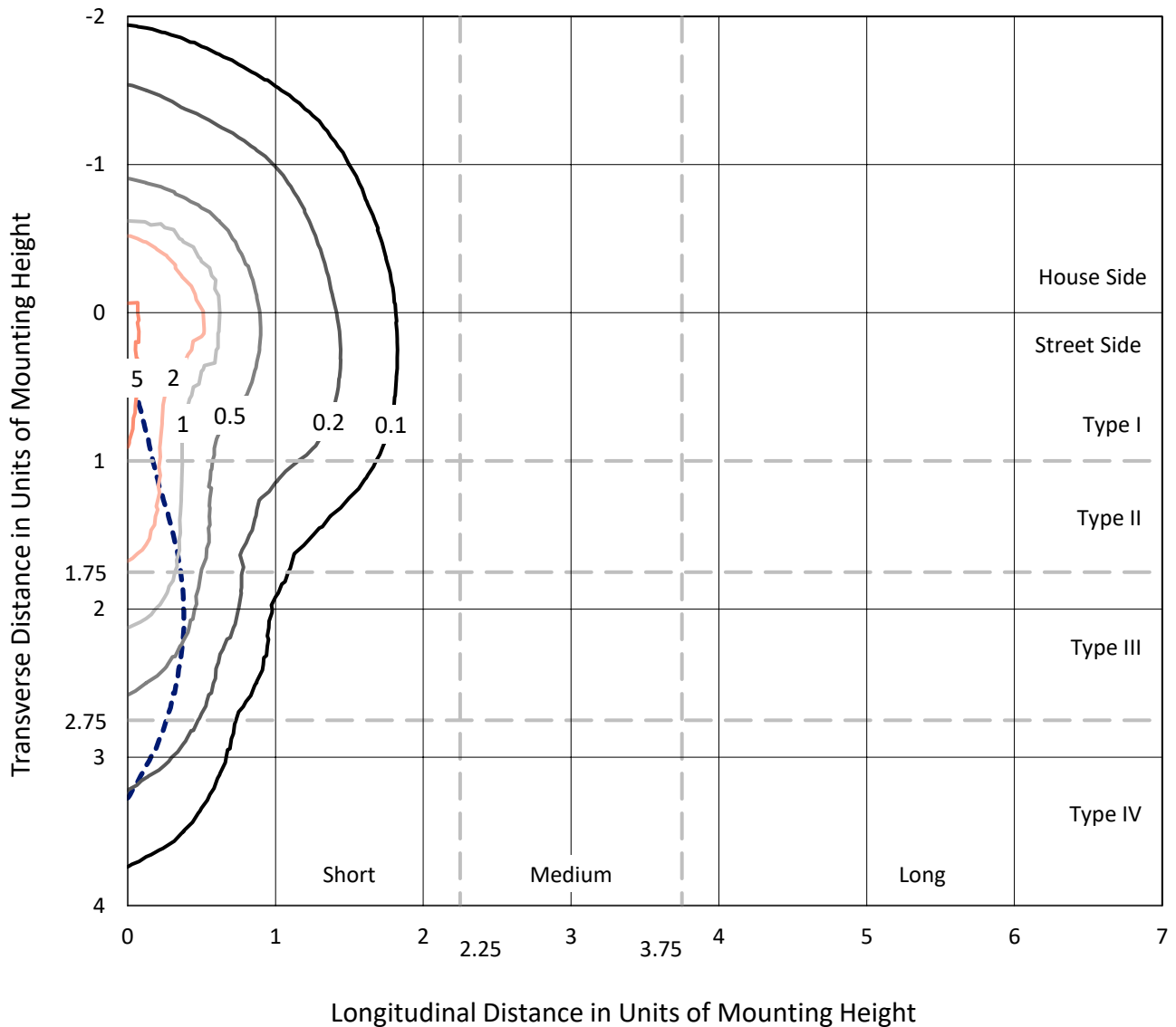
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

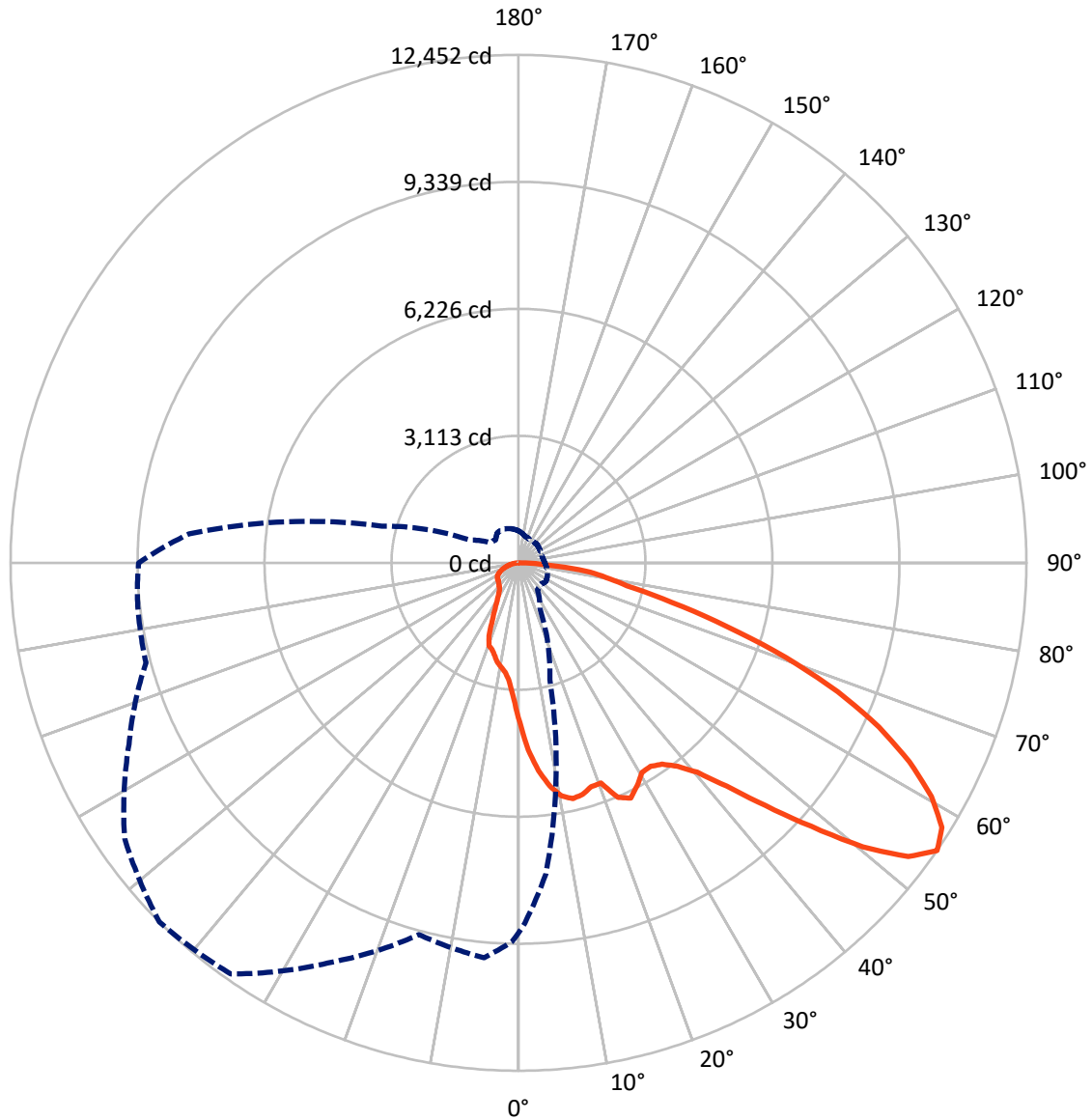
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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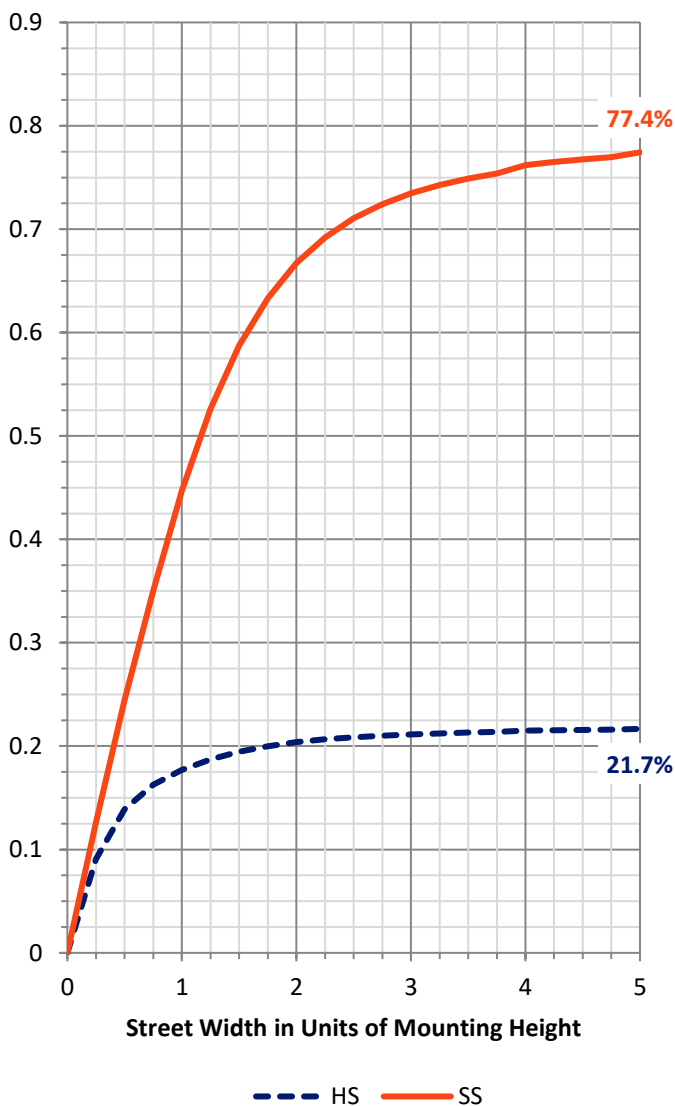
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3409.5	0.0	3409.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	12177.0	0.0	12177.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	15586.4	0.0	15586.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.5	2.1
10°-20°	879.5	5.6
20°-30°	1519.4	9.7
30°-40°	1765.8	11.3
40°-50°	2463.7	15.8
50°-60°	3342.9	21.4
60°-70°	3180.4	20.4
70°-80°	1718.1	11.0
80°-90°	385.1	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°	15586.4	100.0
0°-180°	15586.4	100.0

Coefficient of Utilization



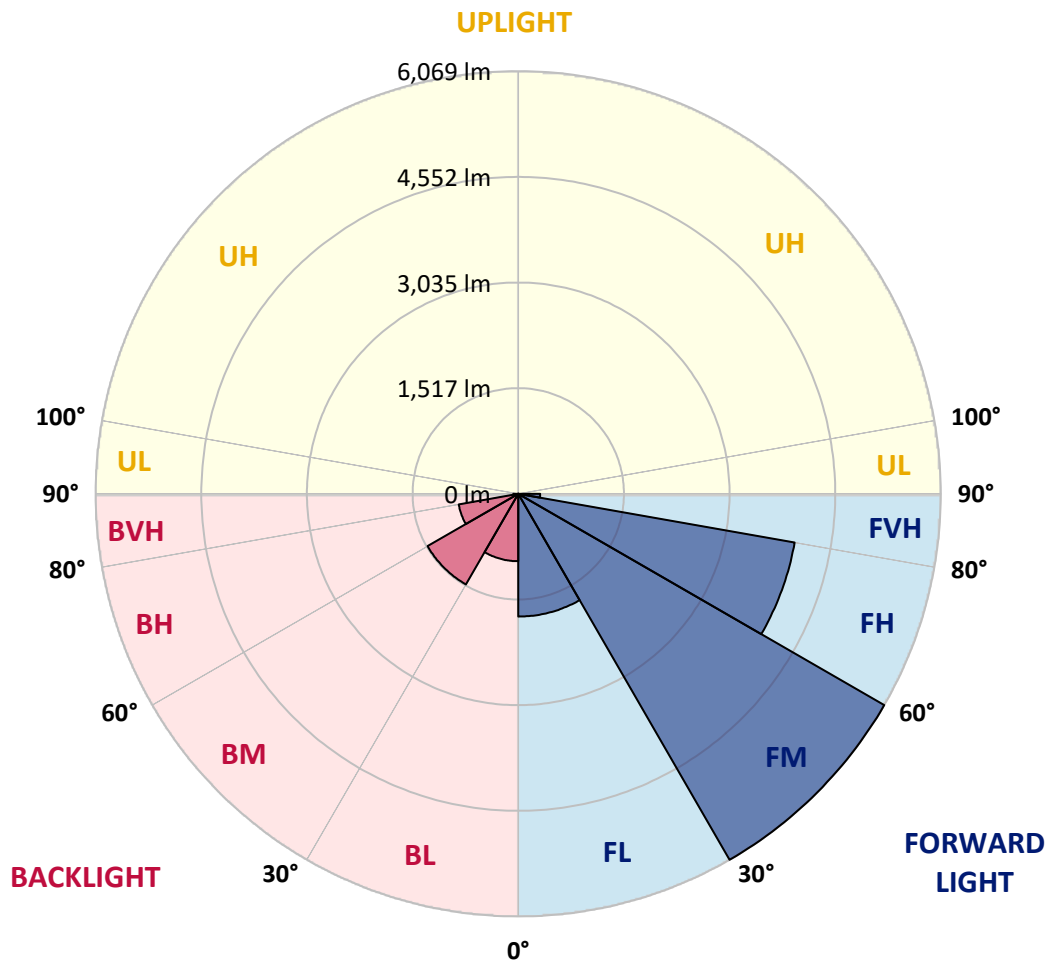
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1762.9	11.3			
FM (30°-60°)	6069.0	38.9			
FH (60°-80°)	4030.4	25.9			G2/5000
FVH (80°-90°)	314.7	2.0			G3/500
BL (0°-30°)	967.6	6.2	B2/1000		
BM (30°-60°)	1503.3	9.6	B2/2500		
BH (60°-80°)	868.1	5.6	B2/1000		G2/1000
BVH (80°-90°)	70.4	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°	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6
2.5°	4345.5	4329.1	4282.8	4161.4	4039.1	3914.7	3819.0	3699.8	3575.3	3508.5	3423.1
5°	4405.2	4386.7	4277.6	4004.1	3756.3	3496.2	3288.4	3106.4	3032.4	2923.4	2836.0
7.5°	4265.3	4257.1	4093.6	3700.8	3361.4	3021.0	2785.6	2639.6	2506.9	2457.6	2467.9
10°	4137.8	4104.9	3900.3	3387.2	2991.3	2714.7	2546.0	2403.1	2309.5	2284.9	2290.0
12.5°	4031.9	3987.7	3746.0	3176.3	2829.8	2608.7	2393.9	2244.7	2159.4	2183.0	2263.3
15°	4010.3	3950.6	3681.3	3104.4	2741.4	2456.6	2221.1	2049.3	1985.6	2037.1	2165.5
17.5°	4150.1	4075.0	3792.3	3128.0	2657.1	2301.3	2012.3	1815.9	1762.5	1844.7	2012.3
20°	4599.5	4488.5	4138.9	3264.8	2648.8	2224.2	1891.0	1693.6	1716.2	1872.5	2047.3
22.5°	5430.3	5263.8	4745.5	3464.3	2692.0	2204.6	1866.4	1763.5	1887.9	2020.5	2135.7
25°	5594.8	5464.2	4854.5	3509.5	2682.8	2191.2	1936.3	1987.6	2126.5	2192.3	2152.2
27.5°	5687.4	5538.3	4847.3	3285.4	2399.0	1987.6	1850.9	1936.3	1971.2	1907.5	1798.5
30°	5903.4	5748.1	4969.7	3049.9	1975.4	1474.5	1292.6	1257.6	1281.2	1293.6	1254.5
32.5°	6200.5	6047.3	5200.0	2895.6	1708.0	1219.5	1040.6	991.3	979.9	966.6	951.2
35°	6585.1	6349.7	5426.3	2797.0	1597.9	1128.0	963.5	925.4	910.0	891.5	875.1
37.5°	6975.8	6729.1	5712.1	2693.1	1525.0	1064.3	912.1	894.6	867.9	848.3	824.7
40°	7391.3	7114.7	5972.3	2602.6	1454.0	1023.1	875.1	873.0	838.0	815.4	787.7
42.5°	7751.2	7466.4	6204.6	2547.0	1399.5	979.9	852.5	858.6	822.6	788.7	752.7
45°	8037.0	7757.3	6419.6	2547.0	1355.3	936.8	848.3	844.2	808.2	766.1	724.9
47.5°	8287.9	7999.0	6629.3	2611.9	1327.5	900.8	825.7	832.9	795.9	742.4	702.4
50°	8482.3	8227.3	6912.1	2712.6	1299.8	871.9	796.9	836.0	785.6	730.1	683.8
52.5°	8730.1	8501.8	7252.5	2850.4	1276.1	840.1	771.2	836.0	784.6	731.1	680.7
55°	9073.6	8832.9	7662.8	2964.5	1238.1	810.2	748.6	812.4	781.5	726.0	672.5
57.5°	9314.2	9134.2	7952.7	3040.6	1183.6	772.3	728.0	789.7	768.1	706.4	647.9
58°	9325.5	9149.7	7994.9	3058.1	1170.2	765.1	722.9	779.4	761.9	698.2	639.6
60°	9195.9	9044.7	8003.1	3033.4	1094.1	729.1	696.2	737.3	729.1	649.9	595.4
62.5°	8725.0	8563.5	7671.0	2832.9	993.3	684.8	655.0	680.7	662.2	582.0	531.7
65°	8055.6	7758.4	6988.2	2518.3	921.4	637.5	599.5	601.6	582.0	524.5	480.2
67.5°	7164.1	6831.9	5916.7	2122.4	866.9	585.1	533.7	528.5	504.9	467.8	431.9
70°	6066.8	5839.6	4808.2	1726.5	806.2	527.5	459.6	456.6	442.2	414.4	382.5
72.5°	4917.2	4628.3	3882.8	1382.0	732.1	472.0	390.7	396.9	378.4	358.8	330.1
75°	3628.8	3439.6	3001.6	1108.5	632.4	411.3	326.0	328.0	319.8	299.3	276.6
77.5°	2389.7	2333.2	2147.1	728.0	486.4	327.0	266.3	268.4	262.2	243.7	220.0
80°	1608.2	1570.1	1455.0	468.9	324.9	236.5	205.7	207.7	206.7	187.1	155.3
82.5°	991.3	974.8	937.8	316.7	225.2	169.7	135.7	141.9	153.2	131.6	105.9
85°	467.8	468.9	566.6	172.7	132.6	109.0	74.1	79.2	79.2	79.2	59.7
87.5°	60.7	63.7	78.1	73.0	48.3	41.1	26.7	22.6	19.6	25.7	18.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6
2.5°	3393.3	3372.8	3328.5	3318.3	3312.1	3329.6	3283.3	3295.6	3275.1	3332.7	3323.4
5°	2841.1	2843.2	2879.2	2902.8	2911.0	2902.8	2872.0	2818.5	2777.4	2760.9	2765.0
7.5°	2448.4	2484.3	2546.0	2614.9	2677.6	2696.2	2678.6	2576.9	2465.8	2395.9	2373.3
10°	2317.8	2366.1	2437.0	2491.5	2547.0	2591.3	2600.5	2521.3	2389.7	2224.2	2159.4
12.5°	2325.0	2390.7	2458.6	2476.1	2471.0	2488.5	2480.2	2466.8	2380.5	2169.7	2061.7
15°	2257.1	2335.2	2382.5	2373.3	2356.8	2341.4	2319.8	2285.9	2255.0	2107.0	1987.6
17.5°	2100.8	2181.0	2220.0	2223.2	2223.2	2219.0	2166.6	2154.3	2150.1	2078.2	2005.2
20°	2129.6	2173.8	2156.3	2127.5	2135.7	2163.5	2132.7	2126.5	2150.1	2182.0	2168.7
22.5°	2146.0	2130.6	1999.0	1871.4	1842.7	1929.1	1946.5	2015.4	2111.0	2226.2	2301.3
25°	2044.3	1919.8	1684.3	1540.4	1459.1	1539.3	1644.2	1771.7	1914.7	2062.7	2150.1
27.5°	1709.0	1614.4	1445.7	1316.2	1245.3	1257.6	1347.1	1463.3	1595.9	1695.7	1759.4
30°	1287.4	1245.3	1157.8	1113.7	1070.4	1060.2	1098.2	1142.4	1201.0	1213.3	1229.9
32.5°	948.1	941.9	947.0	932.6	924.4	923.4	912.1	922.4	928.6	935.8	921.4
35°	857.6	849.4	835.0	830.8	825.7	827.8	822.6	817.5	821.6	827.8	831.9
37.5°	811.3	799.0	778.4	771.2	771.2	774.3	766.1	764.0	771.2	790.8	801.0
40°	775.3	760.9	737.3	728.0	734.2	742.4	731.1	727.0	744.5	765.1	781.5
42.5°	741.4	730.1	707.4	697.2	702.4	717.8	701.3	698.2	720.8	743.5	763.0
45°	712.6	701.3	680.7	675.6	677.6	692.0	680.7	680.7	702.4	727.0	744.5
47.5°	690.0	675.6	662.2	658.1	660.1	668.4	666.3	666.3	686.9	712.6	730.1
50°	667.4	655.0	637.5	639.6	644.7	656.1	655.0	658.1	678.6	710.6	729.1
52.5°	657.1	638.5	619.0	621.1	636.5	649.9	645.7	648.9	672.5	732.1	758.9
55°	645.7	621.1	598.4	601.6	619.0	638.5	633.4	637.5	665.3	746.5	783.5
57.5°	624.1	595.4	570.7	572.8	598.4	619.0	610.8	615.9	648.9	731.1	770.2
58°	614.9	590.2	566.6	567.6	592.3	614.9	605.7	609.8	643.7	727.0	764.0
60°	575.8	561.4	540.9	541.9	565.6	585.1	580.0	584.0	617.0	697.2	724.9
62.5°	522.3	514.1	509.0	509.0	523.4	541.9	547.1	552.2	582.0	630.3	655.0
65°	464.8	464.8	465.8	465.8	475.0	498.7	501.8	515.1	542.9	566.6	585.1
67.5°	425.7	423.7	425.7	420.5	424.7	439.1	454.5	466.8	495.6	512.1	518.3
70°	375.3	374.3	375.3	368.1	373.3	385.6	395.9	416.5	446.3	458.6	461.7
72.5°	326.0	326.0	328.0	322.9	322.9	336.2	343.4	366.1	393.8	401.1	402.1
75°	274.5	277.7	277.7	270.4	272.5	280.7	289.9	308.5	334.2	339.4	339.4
77.5°	218.0	229.3	229.3	222.1	225.2	226.2	238.6	247.8	267.3	269.4	261.2
80°	158.3	169.7	178.9	172.7	177.9	171.7	178.9	185.1	204.6	195.4	182.0
82.5°	113.1	121.4	128.6	129.6	124.4	113.1	122.4	123.4	132.6	120.3	113.1
85°	62.7	69.9	79.2	75.1	66.9	59.7	62.7	64.8	63.7	60.7	56.5
87.5°	16.4	17.5	19.6	14.4	13.4	11.3	15.4	15.4	17.5	18.5	17.5
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6
2.5°	3330.6	3375.8	3473.5	3547.5	3638.1	3748.1	3877.7	4008.3	4149.1	4193.4	4255.1
5°	2755.8	2868.9	2916.2	3050.9	3184.6	3385.1	3599.0	3846.8	4118.3	4248.9	4374.3
7.5°	2354.8	2415.4	2464.8	2563.5	2723.9	2967.6	3236.0	3545.5	3930.1	4120.3	4304.4
10°	2138.8	2145.0	2205.6	2328.0	2467.9	2682.8	2936.8	3283.3	3712.1	3943.4	4159.4
12.5°	1995.9	1969.2	2034.9	2162.5	2320.8	2519.3	2752.7	3082.7	3554.7	3792.3	4053.5
15°	1870.4	1828.3	1877.6	2008.2	2164.5	2397.9	2648.8	2998.5	3493.0	3769.7	4059.6
17.5°	1873.6	1757.4	1774.8	1884.8	2040.1	2277.7	2582.0	2995.4	3586.6	3905.4	4248.9
20°	2104.9	1918.7	1839.6	1860.2	2010.3	2269.4	2612.9	3139.4	3894.1	4358.9	4726.0
22.5°	2332.2	2220.0	2092.6	2050.4	2132.7	2404.1	2809.2	3479.7	4562.5	5262.7	5926.0
25°	2252.9	2348.6	2316.7	2257.1	2275.6	2500.7	2942.9	3759.4	5081.7	5870.5	6493.6
27.5°	1802.5	1976.4	2011.3	2010.3	2017.5	2202.6	2646.8	3571.2	5146.5	5986.7	6582.1
30°	1266.8	1282.2	1300.8	1336.7	1369.7	1535.2	2071.0	3135.2	5117.8	6039.1	6635.5
32.5°	914.2	934.7	960.4	1009.8	1087.9	1298.7	1811.9	2996.4	5269.9	6256.1	6791.8
35°	836.0	859.7	884.3	940.9	1014.9	1210.3	1709.0	2938.8	5519.8	6607.7	7072.5
37.5°	811.3	838.0	859.7	900.8	960.4	1146.5	1615.4	2899.8	5775.9	6980.0	7448.8
40°	793.8	824.7	842.2	875.1	916.2	1087.9	1532.2	2868.9	6023.7	7320.3	7751.2
42.5°	778.4	810.2	832.9	856.5	890.5	1035.4	1458.1	2838.1	6238.6	7650.4	8052.5
45°	759.9	800.0	828.8	847.3	877.1	991.3	1401.6	2813.4	6483.3	7943.5	8356.8
47.5°	744.5	788.7	824.7	846.3	857.6	960.4	1356.3	2847.3	6777.4	8249.9	8639.6
50°	745.5	787.7	832.9	866.9	837.0	934.7	1328.5	2982.0	7159.9	8613.9	8862.8
52.5°	778.4	829.8	865.8	874.1	808.2	903.9	1314.1	3217.5	7612.3	8935.8	9088.0
55°	815.4	868.9	908.0	902.8	792.8	864.7	1311.1	3468.4	8108.0	9311.0	9381.0
57.5°	802.0	880.2	939.8	913.1	793.8	826.8	1297.7	3670.9	8522.4	9591.8	9671.0
58°	798.0	876.1	944.0	911.0	790.8	815.4	1294.6	3688.5	8580.0	9611.3	9712.1
60°	757.9	840.1	940.9	895.6	773.3	784.6	1260.7	3745.0	8564.5	9510.6	9736.8
62.5°	684.8	752.7	869.9	820.6	719.8	743.5	1184.6	3675.1	8147.0	9025.2	9375.9
65°	602.6	652.9	731.1	721.8	643.7	701.3	1080.7	3398.5	7311.1	8237.6	8606.7
67.5°	540.9	582.0	631.3	618.0	579.0	644.7	968.6	2930.6	6373.3	7291.5	7756.3
70°	478.2	510.0	534.7	525.5	513.1	589.2	868.9	2378.4	5474.6	6392.8	6843.2
72.5°	414.4	444.2	464.8	451.4	444.2	530.6	787.7	1845.8	4323.9	5274.1	5853.0
75°	346.6	376.4	390.7	375.3	371.2	467.8	667.4	1378.9	3244.2	4065.8	4565.6
77.5°	268.4	300.3	318.8	313.6	315.7	384.6	538.8	944.0	2319.8	2771.2	3297.7
80°	188.2	223.2	235.4	230.4	244.8	293.1	380.5	599.5	1600.0	1798.5	2169.7
82.5°	116.2	149.1	151.1	156.3	166.5	217.0	286.9	365.0	1004.7	1038.6	1308.0
85°	58.6	70.9	76.1	84.3	93.6	132.6	163.5	226.2	646.8	489.5	731.1
87.5°	19.6	20.6	24.7	30.9	38.1	54.5	69.9	92.6	160.4	88.4	226.2
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°	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6	3911.6
2.5°	4379.5	4466.9	4530.6	4589.2	4532.6	4527.5	4472.0	4382.5	4345.5	4345.5
5°	4637.6	4842.2	5007.8	5113.6	5068.4	4959.4	4779.4	4550.2	4426.8	4405.2
7.5°	4708.5	5112.6	5420.1	5529.1	5453.0	5212.4	4867.9	4481.3	4304.4	4265.3
10°	4665.3	5190.7	5642.1	5814.9	5709.0	5345.0	4875.0	4401.0	4183.0	4137.8
12.5°	4620.1	5201.1	5683.3	5933.2	5864.3	5452.0	4927.5	4348.6	4096.7	4031.9
15°	4653.0	5205.1	5632.9	5891.0	5935.2	5580.4	5013.9	4386.7	4079.2	4010.3
17.5°	4860.7	5283.3	5560.9	5769.7	5925.0	5755.3	5259.6	4568.6	4235.5	4150.1
20°	5294.6	5470.4	5602.1	5763.5	6013.4	6112.1	5762.5	5068.4	4674.6	4599.5
22.5°	6551.2	6519.3	6249.9	6246.8	6608.8	7004.6	6981.0	6084.3	5492.0	5430.3
25°	7022.1	6874.0	6484.3	6389.7	6549.1	7159.9	7071.5	6292.0	5745.0	5594.8
27.5°	6838.1	6470.9	6214.9	6193.3	6140.9	6717.7	6930.6	6376.4	5833.4	5687.4
30°	6826.7	6286.9	5920.8	5964.0	6014.4	6565.5	7008.8	6640.6	6059.6	5903.4
32.5°	6854.5	6312.6	5942.4	5950.6	6100.8	6588.2	7095.2	6928.5	6356.9	6200.5
35°	6966.6	6458.7	6080.2	6060.7	6295.2	6736.2	7242.2	7381.0	6763.0	6585.1
37.5°	7147.5	6749.6	6332.1	6327.0	6667.4	7003.6	7425.2	7837.5	7167.1	6975.8
40°	7413.9	7090.0	6780.5	6752.7	7173.3	7438.6	7662.8	8323.9	7637.1	7391.3
42.5°	7735.7	7498.2	7371.7	7481.8	7885.9	7927.0	8033.0	8773.3	8037.0	7751.2
45°	8034.0	8022.6	8198.5	8490.5	8726.0	8479.2	8419.5	9074.6	8347.6	8037.0
47.5°	8388.7	8695.1	9225.7	9653.5	9900.3	9121.9	8749.6	9271.0	8573.8	8287.9
50°	8748.6	9500.3	10347.6	10944.0	10996.5	9820.1	8976.9	9456.1	8779.5	8482.3
52.5°	9127.0	10143.0	11271.0	11964.0	11862.2	10427.8	9197.0	9581.5	8991.3	8730.1
55°	9456.1	10536.8	11787.2	12452.4	12303.4	10798.0	9434.4	9717.3	9293.6	9073.6
57.5°	9640.1	10569.7	11658.6	12239.6	12078.2	10726.0	9543.4	9818.0	9486.9	9314.2
58°	9666.8	10525.5	11544.5	12116.2	11951.7	10665.3	9542.4	9813.9	9499.3	9325.5
60°	9643.2	10238.6	11119.9	11628.8	11456.1	10284.9	9503.3	9736.8	9343.0	9195.9
62.5°	9424.2	9740.9	10386.7	10756.9	10707.4	9690.5	9343.0	9445.8	8866.8	8725.0
65°	9136.3	9062.2	9447.8	9710.1	9747.1	9245.3	9183.6	8816.5	8256.0	8055.6
67.5°	8786.7	8293.1	8292.0	8441.1	8502.8	8560.5	8851.4	8132.6	7375.9	7164.1
70°	8193.3	7107.4	6780.5	6956.3	6904.9	7391.3	8258.1	7172.3	6314.7	6066.8
72.5°	7105.4	5640.1	5116.7	5343.0	5213.4	5796.4	7225.8	5902.3	5221.6	4917.2
75°	5759.4	4219.0	3679.2	3886.9	3806.7	4396.9	6012.3	4286.9	3745.0	3628.8
77.5°	4472.0	3057.1	2743.5	2714.7	2774.3	3272.0	4410.3	2894.6	2468.9	2389.7
80°	2873.0	2188.2	2206.7	2169.7	2200.5	2062.7	2677.6	1846.8	1672.0	1608.2
82.5°	1891.0	1525.0	1818.0	1678.1	1593.8	1387.2	1756.3	1209.3	1026.2	991.3
85°	1288.4	1122.9	1022.1	781.5	920.3	1068.4	1317.2	650.9	516.2	467.8
87.5°	582.0	390.7	286.9	176.9	279.7	322.9	639.6	76.1	58.6	60.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)