

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: P648270

Luminaire Tested: **GALN-SA2B-835-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648270
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-835-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6672.7 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 82
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

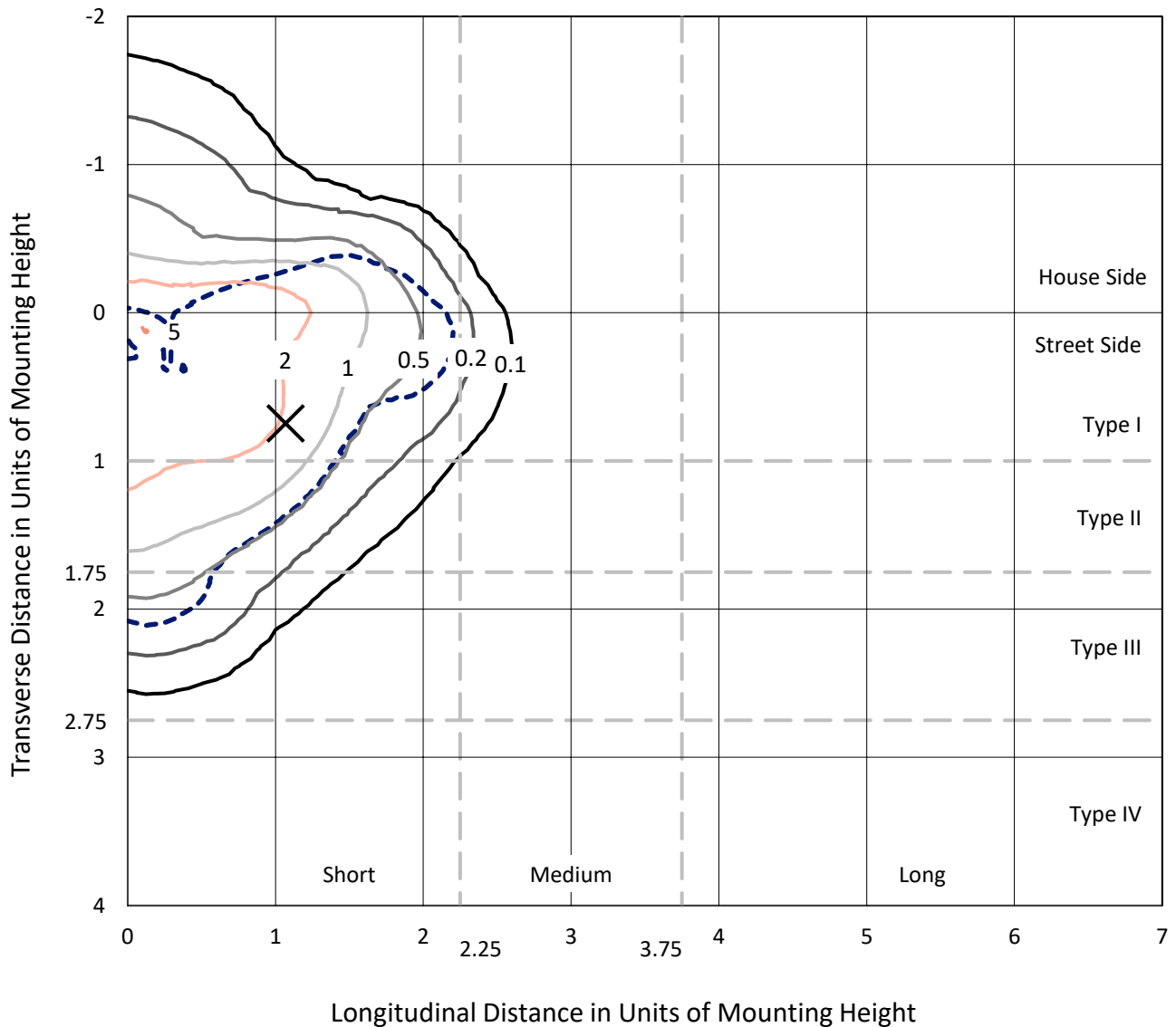




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Iso-Footcandle Lines of Horizontal Illumination

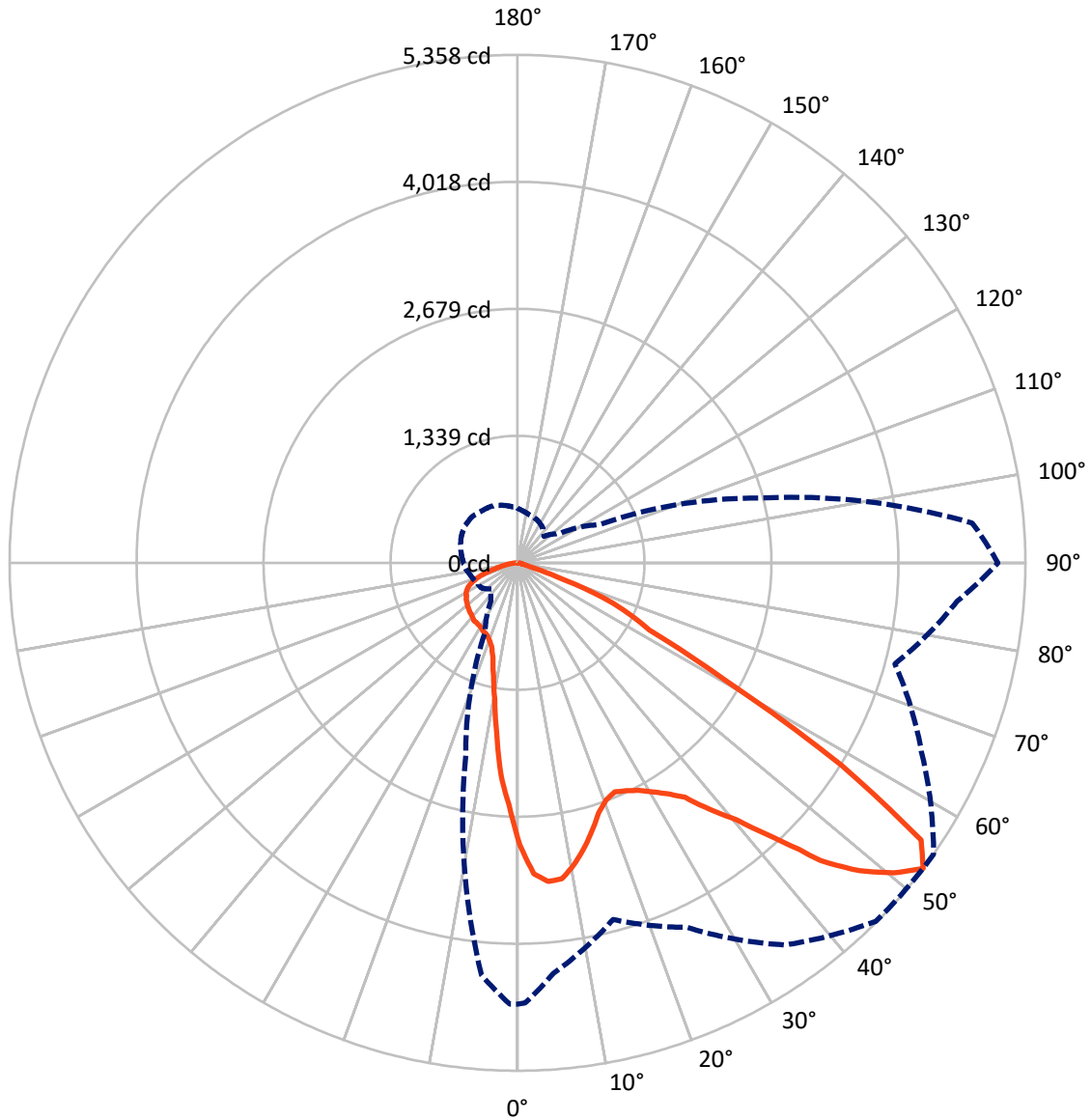
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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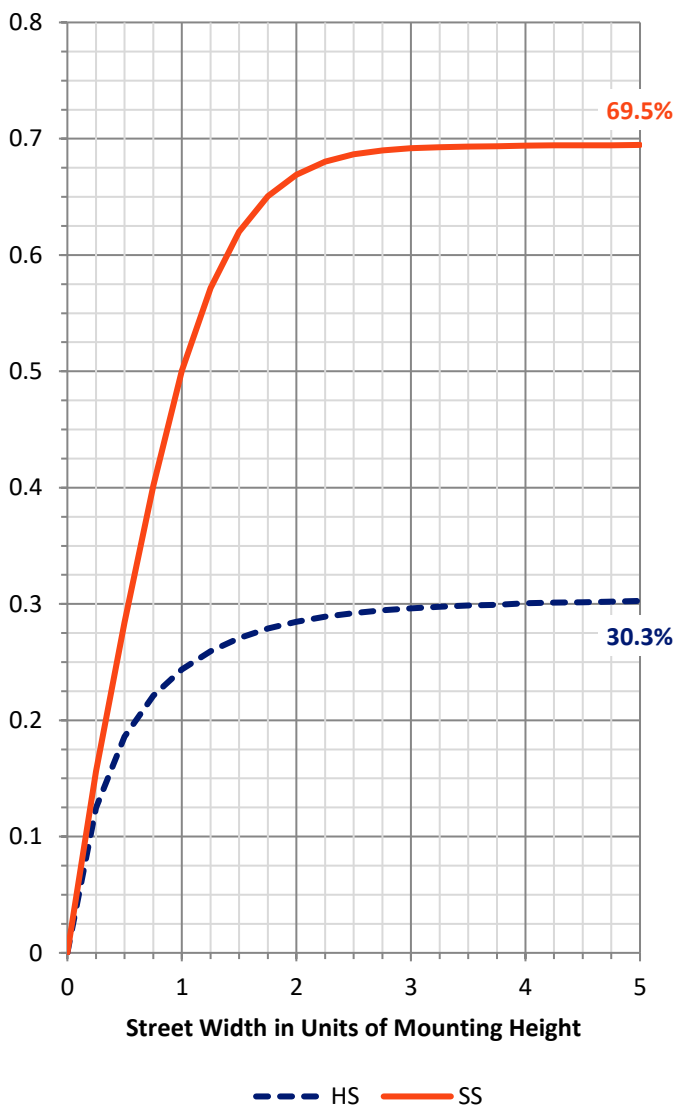
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2035.5	0.0	2035.5
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	4637.2	0.0	4637.2
	% Fixture	69.5	0.0	69.5
Total	Lumens	6672.7	0.0	6672.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.4	3.4
10°-20°	490.3	7.3
20°-30°	743.5	11.1
30°-40°	1074.2	16.1
40°-50°	1435.4	21.5
50°-60°	1602.2	24.0
60°-70°	878.9	13.2
70°-80°	190.0	2.8
80°-90°	30.7	0.5
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°	6672.7	100.0
0°-180°	6672.7	100.0

Coefficient of Utilization

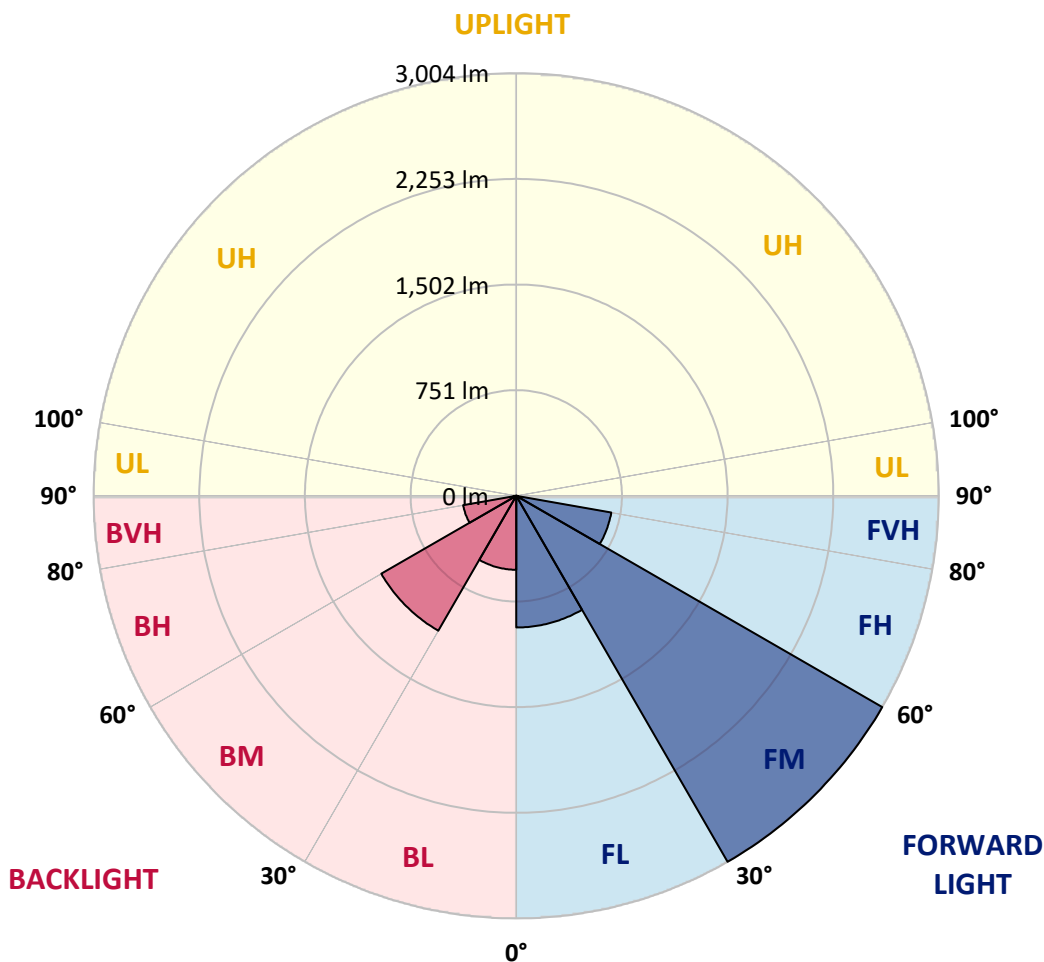


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	935.6	14.0			
FM (30°-60°)	3004.4	45.0			
FH (60°-80°)	685.8	10.3			G1/1800
FVH (80°-90°)	11.4	0.2			G1/100
BL (0°-30°)	525.5	7.9	B2/1000		
BM (30°-60°)	1107.5	16.6	B2/2500		
BH (60°-80°)	383.1	5.7	B1/500		G1/500
BVH (80°-90°)	19.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6
2.5°	3123.7	3106.2	3121.7	3195.7	3238.6	3267.9	3286.4	3283.4	3213.3	3145.1	3145.1
5°	3032.1	3009.7	3041.8	3209.4	3377.9	3392.6	3416.9	3377.0	3273.7	3149.0	2993.1
7.5°	2767.0	2783.6	2837.2	3057.5	3276.6	3386.7	3416.0	3365.3	3197.7	2964.8	2735.9
10°	2538.1	2577.1	2700.8	2938.5	3140.2	3283.4	3315.6	3244.5	3112.0	2826.5	2621.9
12.5°	2459.2	2434.8	2572.2	2810.0	3002.9	3079.9	3094.4	3099.3	3009.7	2756.3	2506.9
15°	2449.5	2465.0	2572.2	2752.5	2871.3	2875.3	2899.6	2937.6	2949.2	2804.1	2560.5
17.5°	2589.8	2571.2	2681.3	2824.6	2768.1	2711.5	2717.4	2772.0	2868.4	2845.0	2729.1
20°	2797.3	2839.2	2925.9	2911.3	2759.3	2616.1	2617.0	2668.7	2858.7	3014.6	2963.9
22.5°	3142.2	3183.1	3247.4	3071.1	2759.3	2587.8	2554.7	2624.9	2921.0	3216.3	3228.9
25°	3456.9	3531.9	3549.4	3341.9	2897.6	2614.1	2592.7	2661.8	2983.4	3413.0	3532.9
27.5°	3743.4	3770.6	3847.6	3516.3	2974.6	2631.7	2629.7	2718.3	3062.3	3511.4	3804.8
30°	3969.4	3966.4	4010.3	3626.4	3097.4	2730.1	2635.6	2803.1	3165.6	3674.1	4056.1
32.5°	4123.4	4156.5	4249.0	3779.4	3149.0	2823.6	2749.5	2902.5	3291.3	3751.1	4233.4
35°	4394.2	4451.7	4334.8	3864.2	3312.7	2916.1	2829.4	3038.0	3353.6	3834.9	4450.7
37.5°	4649.5	4605.6	4486.7	3910.0	3418.9	3087.6	3006.7	3300.0	3547.5	4017.1	4594.9
40°	4813.2	4812.2	4600.8	3946.9	3493.9	3349.8	3344.8	3566.0	3785.3	4132.1	4756.6
42.5°	4884.3	4952.5	4647.5	3943.1	3651.8	3667.3	3765.8	3963.5	3953.8	4155.5	4752.7
44°	4981.7	5022.6	4728.4	3951.9	3757.0	3881.7	4113.6	4239.2	4100.9	4142.9	4747.9
45°	4977.8	4980.7	4613.4	3963.5	3846.6	4061.0	4268.5	4480.9	4230.5	4115.5	4812.2
47.5°	4863.8	4830.7	4516.0	3876.8	4126.3	4534.5	4726.4	4855.1	4390.3	4057.0	4732.3
50°	4638.7	4600.8	4279.3	3839.8	4184.7	4828.8	5093.7	5140.6	4535.4	3999.6	4653.4
52.5°	4654.3	4643.6	4346.4	3895.3	4243.2	4921.3	5346.1	5357.8	4700.1	4120.4	4654.3
55°	4933.0	4895.9	4539.4	3964.5	4200.3	4813.2	5185.3	5164.9	4644.6	4047.3	4740.0
57.5°	4514.0	4538.4	4272.4	3690.7	3676.1	3912.9	4076.5	4025.9	3875.8	3652.7	4409.8
60°	3642.0	3711.2	3736.6	3086.7	2773.9	2652.1	2603.4	2513.7	2539.1	3000.9	3873.9
62.5°	3123.7	3119.8	3278.6	2798.3	1817.1	1562.8	1539.5	1559.9	1852.2	2954.2	3794.0
65°	2476.7	2542.9	2591.7	2371.5	1438.1	1160.4	1159.5	1289.1	1602.7	2469.0	3063.3
67.5°	1572.6	1659.3	1719.7	1517.0	961.7	826.2	803.8	959.7	1110.8	1619.3	1844.4
70°	886.7	927.5	954.9	874.9	611.8	428.7	403.4	440.4	671.3	1048.4	1093.2
72.5°	342.0	360.5	397.5	400.4	230.9	138.4	112.0	134.4	282.6	415.1	395.6
75°	52.6	56.5	79.9	95.4	66.2	50.7	53.6	55.5	78.9	107.2	89.7
77.5°	25.4	25.4	24.4	28.3	33.1	36.0	39.0	42.9	46.7	51.7	49.7
80°	16.6	16.6	16.6	19.5	24.4	29.2	33.1	35.1	37.0	41.0	39.0
82.5°	10.7	10.7	10.7	14.6	19.5	24.4	26.3	31.2	35.1	41.0	38.0
85°	5.9	5.9	5.9	9.7	14.6	20.4	19.5	15.6	8.8	0.9	2.0
87.5°	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6
2.5°	3063.3	3018.5	3014.6	2922.9	2841.1	2801.2	2769.0	2679.3	2698.8	2647.2	2646.2
5°	2915.2	2823.6	2675.5	2553.7	2431.9	2407.6	2301.3	2208.8	2211.7	2145.4	2157.2
7.5°	2649.2	2585.9	2405.6	2214.6	2052.9	1937.9	1837.5	1777.2	1700.2	1673.9	1660.3
10°	2480.6	2402.7	2200.0	1960.3	1779.1	1717.7	1621.3	1567.6	1488.8	1449.8	1422.5
12.5°	2406.6	2292.5	2039.2	1795.7	1674.8	1611.5	1529.7	1432.3	1338.7	1302.7	1253.0
15°	2414.4	2278.0	1992.5	1729.4	1584.2	1461.5	1388.4	1280.3	1184.8	1121.4	1085.4
17.5°	2532.3	2366.6	2014.0	1678.8	1470.2	1316.3	1173.1	1056.2	980.2	932.4	920.7
20°	2810.9	2585.9	2050.0	1596.9	1356.2	1164.3	988.0	866.2	807.7	806.7	807.7
22.5°	3042.8	2819.7	2123.0	1548.2	1242.2	969.4	794.0	755.1	743.4	767.7	770.7
25°	3355.5	3082.7	2248.7	1522.9	1137.0	826.2	718.1	703.4	702.5	733.7	734.6
27.5°	3676.1	3312.7	2323.8	1448.8	1029.9	752.1	672.3	669.4	685.0	718.1	715.1
30°	3894.3	3505.6	2459.2	1360.1	903.2	686.9	653.8	657.6	679.1	704.5	708.3
32.5°	4148.6	3695.6	2494.2	1311.4	825.3	632.4	608.9	617.7	645.0	685.0	706.3
35°	4440.0	3830.0	2547.9	1245.2	796.0	590.5	578.7	588.5	621.6	647.9	671.3
37.5°	4655.3	4067.8	2557.6	1193.5	763.9	567.0	548.6	580.7	600.2	637.2	648.9
40°	4815.1	4240.3	2583.0	1161.4	738.5	536.8	536.8	558.3	584.6	618.7	642.1
42.5°	4917.4	4365.9	2601.4	1132.1	689.8	528.1	523.2	544.7	579.7	612.9	623.6
44°	4979.7	4419.5	2583.0	1104.9	676.2	517.3	517.3	535.9	563.1	602.1	614.8
45°	4995.4	4486.7	2542.0	1103.9	659.6	504.7	502.8	537.8	556.3	604.1	611.8
47.5°	5055.8	4569.6	2546.9	1072.7	619.7	474.5	508.6	524.2	540.7	582.6	608.9
50°	5053.8	4621.2	2536.1	1026.9	590.5	440.4	496.9	514.4	531.0	573.9	584.6
52.5°	5067.4	4814.1	2634.6	953.9	537.8	396.5	457.9	496.9	517.3	553.4	575.8
55°	5060.6	4924.2	2732.0	899.3	463.8	370.3	424.8	470.6	499.8	537.8	548.6
57.5°	4622.2	4352.3	2528.4	797.0	383.9	339.0	378.0	443.3	480.4	519.3	533.0
60°	3776.5	3354.6	2085.1	586.5	315.7	311.8	351.7	434.6	450.1	484.2	507.6
62.5°	3490.0	2942.4	1653.5	448.2	269.9	285.5	324.5	392.7	417.0	458.9	480.4
65°	2731.0	1954.5	1024.0	303.0	237.7	256.3	293.2	344.0	383.9	422.8	448.2
67.5°	1617.4	1067.9	506.7	212.4	207.5	227.0	265.0	303.0	348.8	391.7	404.3
70°	880.8	525.2	216.3	161.8	176.3	193.9	230.9	257.2	301.1	334.2	355.6
72.5°	282.6	159.8	108.1	119.9	134.4	155.0	177.3	209.5	240.7	260.1	277.7
75°	68.2	67.3	77.0	83.8	97.4	113.0	131.5	148.1	172.4	191.0	206.6
77.5°	47.8	51.7	59.4	69.1	74.1	79.9	91.6	104.2	114.9	128.6	138.4
80°	37.0	39.9	45.8	50.7	55.5	60.4	66.2	71.1	77.9	86.7	91.6
82.5°	35.1	37.0	42.9	45.8	43.8	42.9	46.7	48.7	49.7	52.6	55.5
85°	2.9	0.0	2.0	6.8	16.6	24.4	26.3	26.3	25.4	27.2	27.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	3.9	2.9
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°	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6
2.5°	2634.6	2601.4	2614.1	2629.7	2607.3	2555.6	2569.3	2563.5	2616.1	2612.2	2664.8
5°	2208.8	2157.2	2163.0	2239.0	2214.6	2240.9	2188.3	2181.5	2191.2	2196.2	2204.9
7.5°	1690.4	1683.6	1742.1	1806.4	1836.6	1805.4	1753.8	1742.1	1731.4	1709.9	1758.6
10°	1379.6	1381.6	1377.7	1426.4	1460.5	1453.7	1422.5	1418.6	1398.1	1390.4	1417.6
12.5°	1231.6	1205.3	1192.6	1177.0	1203.3	1220.9	1207.2	1197.4	1198.4	1208.2	1212.1
15°	1088.3	1071.8	1044.4	1026.9	1039.6	1030.8	1026.0	1045.5	1040.6	1038.6	1062.0
17.5°	927.5	941.2	939.2	919.8	936.3	929.5	928.6	914.9	896.4	882.8	890.5
20°	821.4	846.7	866.2	867.2	875.9	874.9	860.4	818.4	804.8	801.9	803.8
22.5°	783.4	797.0	820.3	853.5	853.5	837.9	820.3	771.6	759.0	745.3	739.5
25°	753.2	779.5	809.6	813.5	829.1	814.6	786.3	761.9	735.6	717.1	717.1
27.5°	737.6	766.8	789.2	796.0	817.5	805.8	776.5	745.3	714.2	713.2	696.6
30°	730.8	758.0	772.7	789.2	799.0	780.4	771.6	738.5	707.4	699.5	672.3
32.5°	710.3	749.3	776.5	772.7	780.4	772.7	760.0	732.7	697.7	680.1	677.1
35°	686.9	725.8	755.1	775.6	780.4	763.9	756.1	719.0	671.3	662.6	632.4
37.5°	674.2	697.7	733.7	766.8	773.6	764.8	738.5	700.6	652.8	643.1	616.8
40°	658.7	688.9	717.1	744.4	764.8	743.4	713.2	676.2	654.7	625.5	617.7
42.5°	646.9	681.1	704.5	734.6	758.0	729.8	694.7	669.4	639.2	619.7	597.3
44°	643.1	674.2	689.8	726.9	746.4	724.9	695.7	669.4	634.3	616.8	597.3
45°	629.4	672.3	688.9	722.0	738.5	721.0	684.0	657.6	632.4	610.9	590.5
47.5°	615.8	645.0	673.2	699.5	711.3	705.4	674.2	642.1	611.8	599.2	579.7
50°	611.8	641.1	667.4	691.8	705.4	693.7	665.5	634.3	599.2	578.7	562.2
52.5°	592.4	628.4	657.6	665.5	683.0	676.2	654.7	620.6	587.5	569.9	556.3
55°	564.2	602.1	642.1	651.8	677.1	666.4	634.3	602.1	573.9	547.6	530.0
57.5°	553.4	590.5	629.4	642.1	657.6	640.1	632.4	598.2	553.4	539.8	512.5
60°	526.1	572.9	605.0	634.3	635.2	630.4	616.8	577.8	540.7	515.4	496.0
62.5°	504.7	548.6	573.9	601.2	617.7	604.1	590.5	554.4	514.4	486.2	463.8
65°	473.6	513.5	534.9	551.5	569.9	568.1	544.7	518.3	476.5	454.1	432.6
67.5°	425.8	460.9	490.1	505.7	517.3	514.4	496.9	478.4	435.5	413.1	397.5
70°	368.3	404.3	422.8	431.6	443.3	449.1	435.5	426.7	388.8	359.6	344.9
72.5°	296.2	319.5	346.9	354.6	359.6	363.4	363.4	355.6	316.6	305.0	279.6
75°	218.2	236.8	257.2	257.2	266.0	267.0	268.9	264.0	234.8	219.2	213.4
77.5°	148.1	161.8	178.3	185.1	191.0	190.0	189.0	175.4	159.8	153.0	147.1
80°	96.5	110.1	117.9	126.7	132.5	131.5	133.5	123.7	116.9	105.2	107.2
82.5°	57.5	68.2	76.0	86.7	86.7	89.7	89.7	86.7	79.9	74.1	74.1
85°	27.2	36.0	41.0	47.8	51.7	52.6	46.7	39.9	33.1	30.2	33.1
87.5°	4.9	6.8	9.7	8.8	10.7	9.7	9.7	9.7	9.7	7.8	8.8
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°	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6	2976.6
2.5°	2645.3	2694.0	2728.1	2784.6	2882.1	2960.0	3039.9	3099.3	3106.2	3123.7
5°	2237.0	2263.3	2350.1	2463.1	2542.9	2674.5	2759.3	2913.2	2970.7	3032.1
7.5°	1747.0	1789.9	1905.7	1981.8	2157.2	2321.8	2492.3	2682.3	2758.3	2767.0
10°	1473.1	1535.5	1614.5	1736.2	1831.8	2014.9	2227.3	2438.7	2523.5	2538.1
12.5°	1293.9	1373.8	1479.0	1566.7	1658.3	1818.0	2021.7	2282.8	2392.9	2459.2
15°	1121.4	1204.3	1320.2	1442.0	1522.9	1713.8	1953.5	2247.8	2391.0	2449.5
17.5°	944.1	1021.1	1116.6	1248.1	1410.8	1625.2	1942.8	2364.7	2521.6	2589.8
20°	792.2	835.0	946.1	1081.5	1285.1	1534.5	1946.7	2537.2	2767.0	2797.3
22.5°	732.7	742.4	786.3	911.0	1134.1	1442.0	2015.8	2781.7	3042.8	3142.2
25°	686.9	685.0	696.6	780.4	1024.0	1406.0	2084.1	3006.7	3348.7	3456.9
27.5°	661.6	642.1	643.1	722.0	946.1	1347.5	2171.7	3265.0	3695.6	3743.4
30°	648.9	645.0	633.3	665.5	861.3	1259.8	2186.4	3519.3	3900.2	3969.4
32.5°	641.1	603.1	588.5	600.2	781.4	1164.3	2240.9	3686.8	4153.5	4123.4
35°	602.1	568.1	558.3	569.9	724.9	1110.8	2204.9	3832.9	4343.5	4394.2
37.5°	587.5	557.3	537.8	528.1	672.3	1065.9	2186.4	4058.1	4527.7	4649.5
40°	573.9	541.8	518.3	508.6	631.3	1006.5	2180.5	4231.5	4740.0	4813.2
42.5°	558.3	537.8	511.5	494.0	581.7	947.0	2113.3	4285.0	4805.3	4884.3
44°	553.4	522.3	494.9	489.1	562.2	916.8	2099.7	4333.7	4861.9	4981.7
45°	548.6	519.3	488.1	480.4	555.4	900.3	2081.1	4345.5	4955.4	4977.8
47.5°	534.9	516.4	486.2	464.8	540.7	864.2	2025.6	4279.3	4859.9	4863.8
50°	524.2	502.8	471.6	429.7	521.2	834.1	2050.9	4254.9	4630.0	4638.7
52.5°	512.5	480.4	462.8	390.7	489.1	808.7	2104.5	4365.0	4656.3	4654.3
55°	498.8	463.8	420.9	357.6	435.5	776.5	2234.1	4582.3	4899.9	4933.0
57.5°	477.4	447.2	385.9	328.3	374.1	715.1	2192.2	4166.2	4508.2	4514.0
60°	449.1	420.9	349.8	305.9	306.9	564.2	1960.3	3246.5	3557.2	3642.0
62.5°	421.9	406.3	319.5	273.8	261.1	449.1	1657.3	2697.9	3053.5	3123.7
65°	389.7	351.7	293.2	249.5	224.1	314.7	1174.0	2015.8	2382.2	2476.7
67.5°	348.8	307.9	258.2	219.2	191.9	210.5	606.0	1145.8	1517.0	1572.6
70°	305.0	267.0	217.3	185.1	155.0	145.2	267.0	546.6	829.1	886.7
72.5°	250.4	215.3	173.4	146.2	116.0	100.4	89.7	146.2	294.3	342.0
75°	181.2	156.8	130.5	104.2	81.8	64.3	52.6	43.8	48.7	52.6
77.5°	133.5	114.0	96.5	74.1	57.5	45.8	36.0	27.2	26.3	25.4
80°	104.2	92.6	77.0	59.4	44.8	34.1	25.4	18.5	16.6	16.6
82.5°	81.8	76.0	63.3	48.7	37.0	27.2	18.5	12.7	10.7	10.7
85°	31.2	31.2	45.8	39.9	28.3	19.5	12.7	6.8	5.9	5.9
87.5°	7.8	7.8	7.8	7.8	6.8	5.9	5.9	2.9	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)