

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: P647884

Luminaire Tested: **GALN-SA4A-835-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647884
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-835-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7830.8 lumens
Efficiency: N/A
Efficacy: 64.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

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

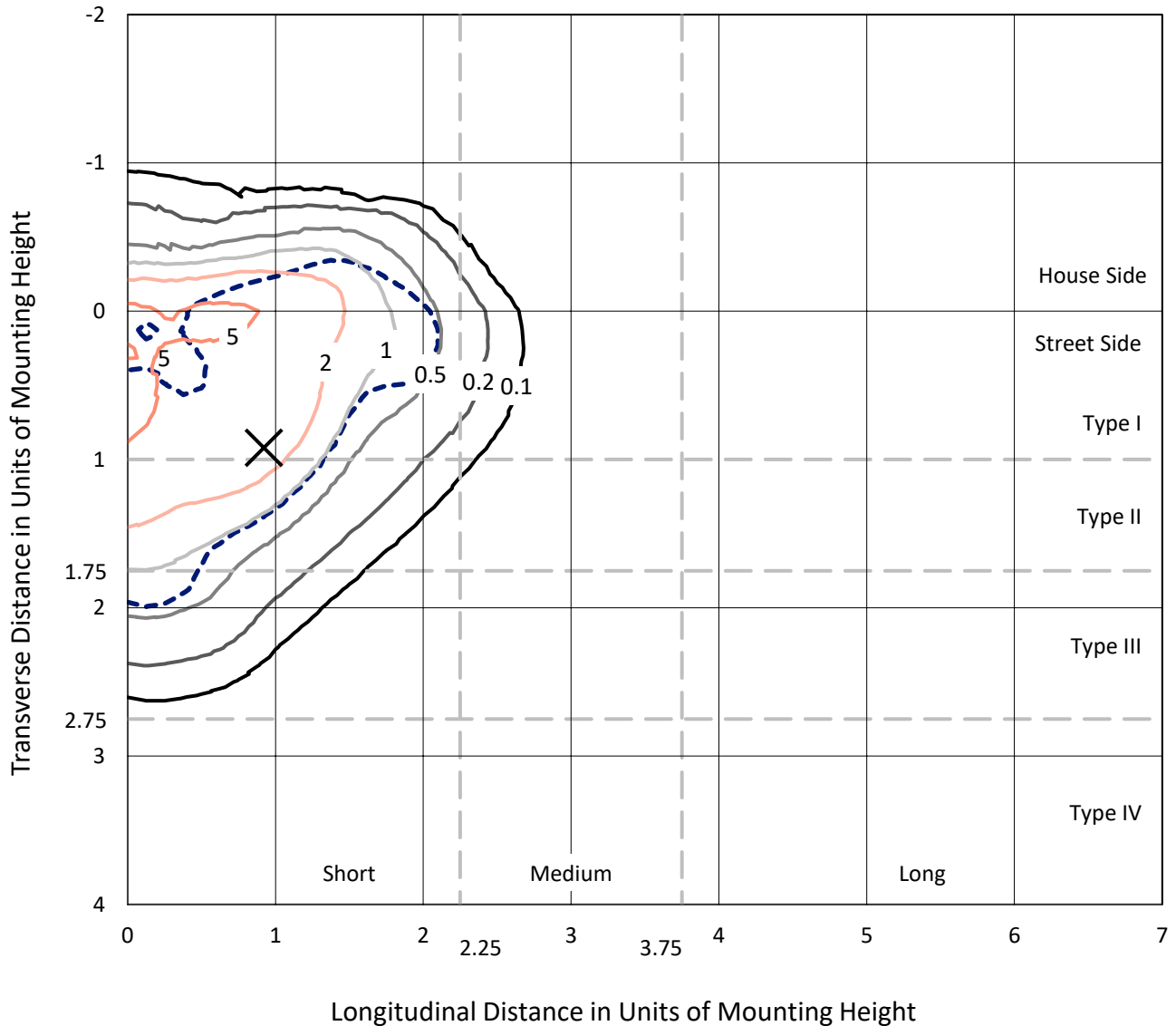




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Iso-Footcandle Lines of Horizontal Illumination

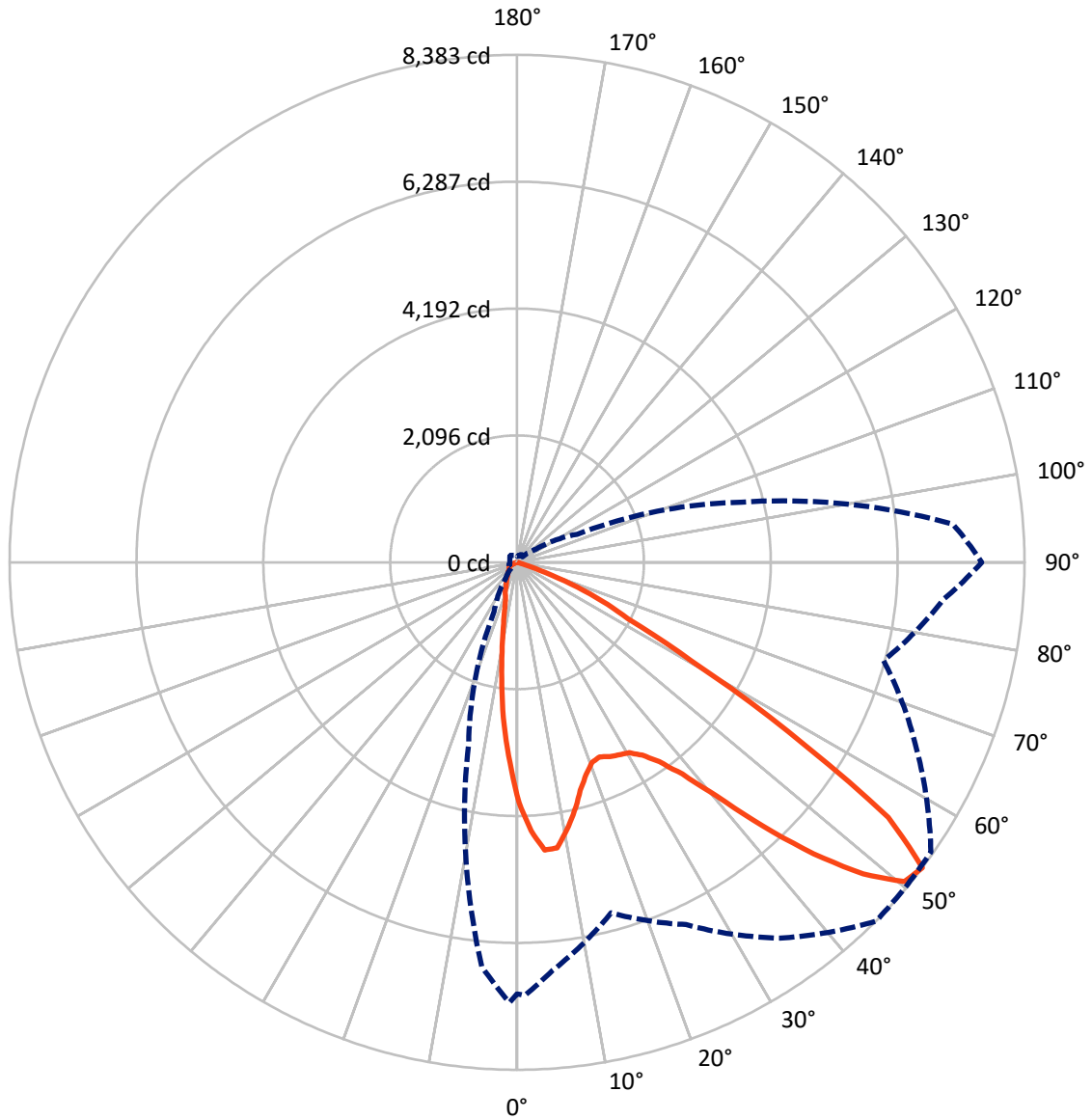
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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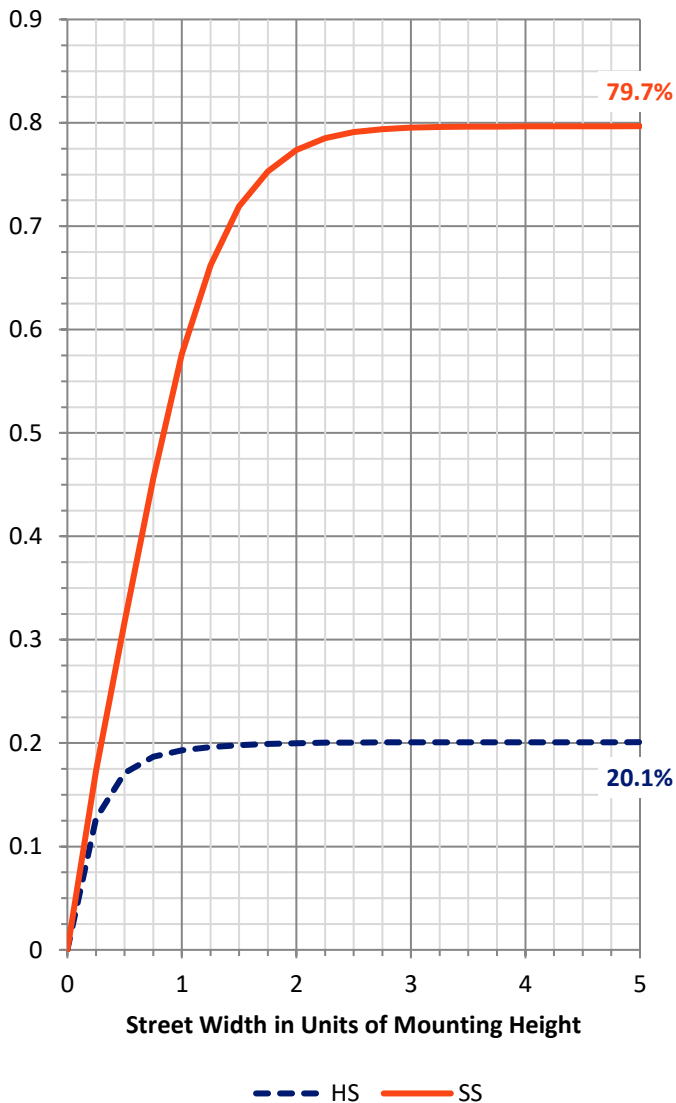
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1589.3	0.0	1589.3
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	6241.5	0.0	6241.5
	% Fixture	79.7	0.0	79.7
Total	Lumens	7830.8	0.0	7830.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.6	3.7
10°-20°	571.3	7.3
20°-30°	869.4	11.1
30°-40°	1299.5	16.6
40°-50°	1850.6	23.6
50°-60°	1989.3	25.4
60°-70°	881.5	11.3
70°-80°	71.3	0.9
80°-90°	8.3	0.1
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°	7830.8	100.0
0°-180°	7830.8	100.0

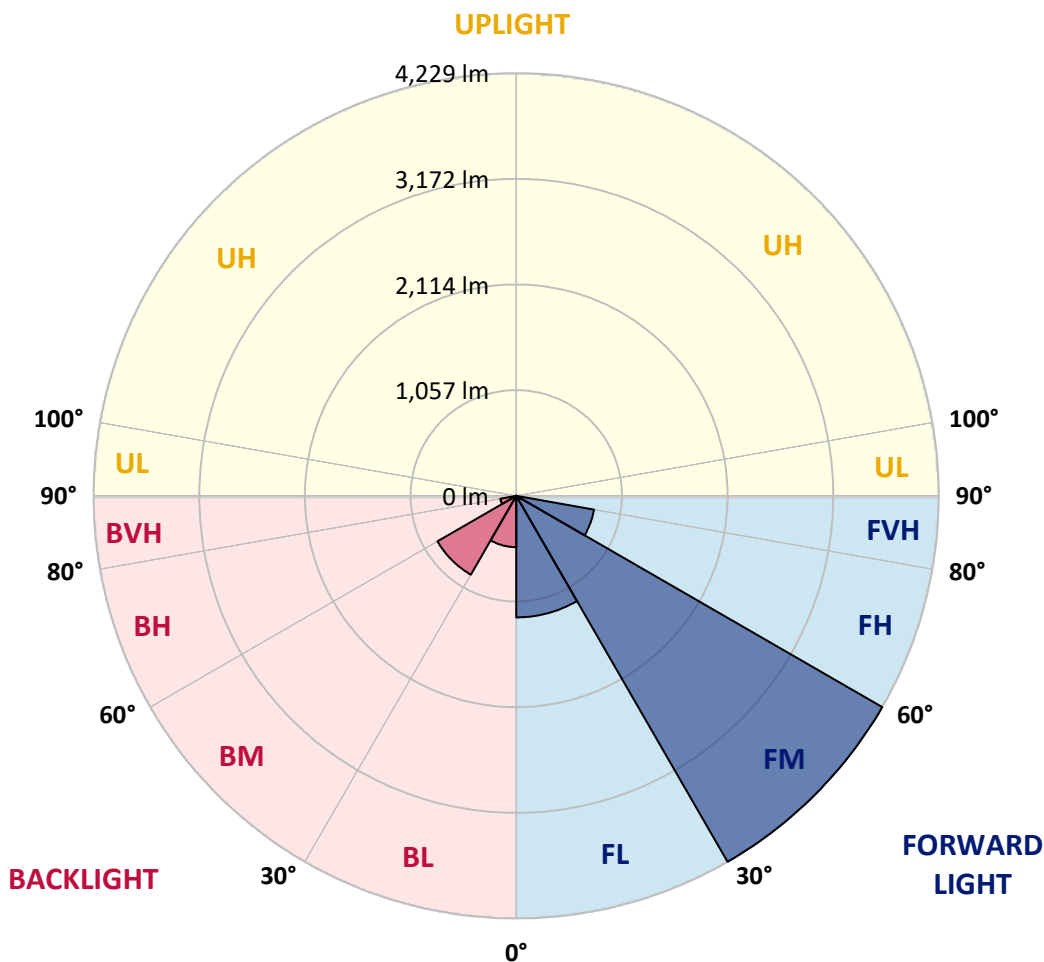


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1216.3	15.5			
FM (30°-60°)	4228.9	54.0			
FH (60°-80°)	790.2	10.1			G1/1800
FVH (80°-90°)	6.2	0.1			G0/10
BL (0°-30°)	514.0	6.6	B2/1000		
BM (30°-60°)	910.5	11.6	B1/1000		
BH (60°-80°)	162.6	2.1	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3970.6	3970.6	3970.6	3970.6	3970.6	3970.6	3970.6	3970.6	3970.6	3970.6	3970.6
2.5°	4201.6	4213.9	4281.7	4366.4	4411.0	4512.7	4441.9	4460.4	4421.8	4286.3	4180.0
5°	4073.8	4072.2	4158.4	4368.0	4566.6	4768.4	4774.6	4666.8	4477.3	4269.4	3972.1
7.5°	3688.7	3748.8	3838.1	4172.4	4540.5	4691.3	4763.8	4637.5	4346.4	4049.1	3727.2
10°	3397.6	3428.4	3579.3	3982.9	4252.4	4454.2	4498.9	4426.5	4203.1	3831.9	3471.6
12.5°	3229.7	3245.1	3422.3	3761.1	4046.1	4195.5	4217.0	4250.9	4090.7	3742.7	3309.8
15°	3231.3	3243.6	3482.3	3765.8	3878.2	3838.1	3909.0	3907.4	3976.7	3725.7	3445.4
17.5°	3463.8	3477.7	3693.3	3833.5	3784.2	3690.3	3685.7	3756.5	3902.8	3936.7	3650.2
20°	3864.3	3896.7	4055.3	4047.6	3770.4	3580.9	3528.5	3582.5	3922.8	4115.4	4063.0
22.5°	4403.4	4448.0	4558.9	4346.4	3833.5	3507.0	3490.1	3594.8	4055.3	4514.2	4531.2
25°	5028.7	5104.1	5158.0	4885.5	4058.4	3634.8	3554.7	3734.9	4233.9	4947.1	5127.2
27.5°	5442.9	5521.6	5509.2	5119.6	4209.3	3668.7	3600.9	3768.8	4389.5	5050.3	5438.3
30°	5766.4	5814.2	5900.4	5245.9	4360.2	3764.2	3648.7	3912.0	4440.3	5228.9	5814.2
32.5°	6143.7	6176.1	6182.3	5469.2	4592.8	3884.3	3796.5	4090.7	4665.2	5399.9	6146.9
35°	6524.2	6572.0	6471.8	5744.9	4736.1	4107.6	4042.9	4400.3	4845.4	5577.0	6513.4
37.5°	6936.9	6961.6	6730.6	5858.8	4940.9	4471.2	4435.7	4734.5	5158.0	5897.3	6920.0
40°	7283.5	7306.6	7006.3	5999.0	5156.5	4979.4	5070.2	5372.2	5583.1	6105.3	7123.3
42.5°	7476.0	7529.9	7098.7	5922.0	5589.3	5555.4	5958.9	6065.2	6076.0	6163.8	7305.1
45°	7528.4	7503.7	6946.2	5985.1	5968.2	6502.6	6869.2	7009.3	6565.8	6271.6	7351.3
47.5°	7286.6	7318.9	6721.4	5929.7	6465.6	7220.4	7694.7	7955.0	6930.8	6177.6	7237.3
50°	7090.9	7049.3	6648.9	5889.6	6599.7	7559.2	8290.8	8349.3	7266.6	6293.1	7112.5
52.5°	7129.4	7155.7	6764.4	5995.9	6602.7	7579.2	8383.2	8343.1	7277.4	6267.0	7067.8
55°	7211.1	7095.6	6715.2	5761.8	6160.7	7020.1	7440.6	7379.0	6716.7	5988.2	6958.5
57.5°	6222.3	6400.9	6174.6	5144.2	5056.4	5288.9	5281.3	5470.7	5010.2	5153.4	6334.7
60°	5050.3	5081.0	5165.8	4400.3	3499.3	3419.2	3308.3	3188.1	3371.4	4406.4	5761.8
62.5°	4441.9	4404.9	4706.8	4002.9	2470.4	2068.5	2050.0	2123.9	2601.4	4203.1	5404.5
65°	3228.2	3274.4	3493.1	3106.6	1854.4	1578.7	1551.0	1769.7	2105.4	3368.4	4124.6
67.5°	1971.4	2060.8	2080.7	1916.0	1258.4	999.6	959.6	1158.2	1520.1	2179.3	2418.1
70°	910.2	1018.1	1119.7	1045.8	728.5	411.2	388.1	486.7	767.0	1253.7	1282.9
72.5°	275.7	277.3	388.1	405.0	235.7	92.4	81.7	107.8	260.3	414.3	435.9
75°	20.0	21.5	52.4	60.1	44.6	23.1	24.7	29.3	55.4	92.4	69.3
77.5°	1.6	1.6	1.6	7.7	13.9	15.4	20.0	23.1	29.3	33.9	30.8
80°	1.6	0.0	1.6	6.2	10.8	15.4	18.5	21.5	23.1	26.2	23.1
82.5°	0.0	0.0	0.0	4.6	10.8	15.4	16.9	23.1	26.2	30.8	26.2
85°	0.0	0.0	0.0	4.6	10.8	16.9	15.4	7.7	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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°	3970.6	3970.6	3970.6	3970.6	3970.6	3970.6	3970.6	3970.6	3970.6	3970.6	3970.6
2.5°	4198.5	4138.5	4001.4	3932.1	3768.8	3745.7	3585.5	3559.4	3505.4	3476.2	3405.3
5°	3841.2	3768.8	3545.5	3357.6	3138.9	2986.4	2869.4	2763.1	2701.4	2644.5	2670.7
7.5°	3550.1	3339.1	3091.1	2776.9	2524.3	2361.1	2182.5	2036.1	1949.8	1891.3	1905.2
10°	3245.1	3108.0	2763.1	2410.4	2105.4	1989.9	1849.8	1737.3	1615.6	1510.9	1461.6
12.5°	3149.7	2946.4	2513.6	2154.7	1923.7	1811.2	1651.0	1521.7	1366.1	1238.3	1193.6
15°	3166.6	2971.0	2445.8	2062.3	1789.7	1595.6	1404.6	1244.5	1073.5	984.2	938.0
17.5°	3442.3	3103.4	2490.5	1965.3	1603.3	1333.8	1098.2	894.8	767.0	674.6	654.6
20°	3781.1	3389.9	2585.9	1894.4	1450.8	1061.2	802.4	626.9	520.6	505.2	500.6
22.5°	4277.1	3858.2	2790.8	1846.7	1264.5	827.1	549.8	455.9	426.7	423.5	425.1
25°	4970.2	4444.9	3014.2	1806.6	1124.3	637.6	449.8	386.6	377.3	372.7	380.5
27.5°	5270.5	4799.2	3132.7	1720.4	996.5	574.5	443.6	383.5	357.3	349.6	354.2
30°	5641.7	5034.8	3319.1	1572.5	808.6	472.9	414.3	417.4	405.0	366.6	354.2
32.5°	6134.5	5329.0	3413.0	1467.8	722.3	391.2	303.4	278.7	311.1	317.3	328.1
35°	6450.3	5627.8	3460.8	1406.2	677.7	334.2	257.2	234.1	226.4	227.9	234.1
37.5°	7037.1	6031.3	3520.8	1341.5	643.8	291.1	232.6	211.0	200.2	200.2	206.4
40°	7388.2	6351.7	3602.5	1306.0	609.9	264.9	211.0	192.5	183.3	183.3	186.4
42.5°	7476.0	6510.3	3574.7	1293.8	571.4	258.8	192.5	178.7	167.9	166.3	164.8
45°	7633.1	6752.1	3579.3	1279.9	531.3	235.7	181.7	166.3	151.0	149.4	147.8
47.5°	7805.6	6926.2	3588.6	1225.9	492.8	197.2	189.4	154.0	135.5	132.5	132.5
50°	7657.7	7064.8	3668.7	1172.1	443.6	160.2	186.4	144.8	120.1	115.5	117.1
52.5°	7676.2	7228.0	3838.1	1096.6	381.9	127.9	151.0	137.1	109.4	101.6	103.2
55°	7380.5	7055.5	3861.2	1016.5	298.8	98.6	115.5	120.1	92.4	89.3	89.3
57.5°	6353.2	5974.4	3406.8	824.0	197.2	81.7	83.2	104.8	80.1	77.0	78.5
60°	5436.8	4796.1	2741.5	543.7	123.2	64.7	60.1	106.3	70.9	69.3	73.9
62.5°	4956.3	3941.3	2079.3	337.3	84.7	49.3	41.6	86.3	61.6	61.6	67.7
65°	3580.9	2647.6	1209.0	177.1	60.1	38.5	30.8	49.3	50.8	52.4	55.4
67.5°	2217.8	1336.9	509.8	86.3	40.0	26.2	20.0	30.8	33.9	33.9	37.0
70°	1095.0	532.9	169.4	49.3	30.8	21.5	13.9	16.9	16.9	15.4	16.9
72.5°	338.8	160.2	43.1	30.8	21.5	13.9	7.7	6.2	3.1	0.0	1.6
75°	38.5	30.8	27.7	21.5	13.9	6.2	1.6	0.0	0.0	0.0	0.0
77.5°	23.1	26.2	26.2	21.5	13.9	4.6	0.0	0.0	0.0	0.0	0.0
80°	18.5	20.0	21.5	20.0	12.3	6.2	0.0	0.0	0.0	0.0	0.0
82.5°	23.1	26.2	29.3	26.2	16.9	7.7	3.1	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	4.6	1.6	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3970.6	3970.6	3970.6	3970.6	3970.6	3970.6	3970.6	3970.6	3970.6	3970.6	3970.6
2.5°	3376.1	3342.2	3389.9	3319.1	3317.6	3319.1	3299.1	3280.5	3309.8	3388.4	3396.1
5°	2576.7	2649.1	2672.2	2747.7	2706.1	2644.5	2656.8	2615.2	2716.9	2761.6	2726.1
7.5°	1875.9	1871.3	2026.9	2036.1	2056.2	2057.6	2054.6	1972.9	1889.8	1908.2	1963.7
10°	1455.4	1376.9	1452.4	1444.7	1494.0	1480.1	1500.1	1412.4	1441.6	1441.6	1477.1
12.5°	1185.9	1102.8	1088.9	1068.9	1088.9	1096.6	1104.3	1087.4	1136.7	1159.8	1184.4
15°	905.6	859.4	847.1	808.6	814.8	836.3	854.8	862.5	847.1	882.5	885.6
17.5°	657.6	656.1	663.8	662.3	656.1	651.5	650.0	629.9	623.7	626.9	639.2
20°	499.0	511.3	537.5	563.7	577.5	560.6	537.5	503.6	489.8	492.8	494.4
22.5°	426.7	445.1	480.5	509.8	523.7	492.8	451.2	422.0	415.9	414.3	412.8
25°	386.6	408.2	434.3	443.6	442.0	423.5	392.8	380.5	377.3	374.3	360.4
27.5°	365.0	372.7	377.3	388.1	392.8	380.5	372.7	354.2	351.2	351.2	341.9
30°	352.7	348.0	354.2	346.6	352.7	343.4	345.0	345.0	337.3	340.4	340.4
32.5°	328.1	329.6	329.6	314.2	318.8	308.0	318.8	328.1	329.6	331.1	343.4
35°	240.3	268.0	281.9	281.9	286.5	278.7	277.3	266.5	252.6	238.7	232.6
37.5°	211.0	221.8	240.3	251.0	258.8	252.6	238.7	221.8	214.1	207.9	201.8
40°	187.9	197.2	209.5	221.8	237.2	229.5	207.9	200.2	191.0	191.0	184.8
42.5°	169.4	174.1	181.7	200.2	217.1	201.8	186.4	180.2	175.5	174.1	172.5
45°	152.5	154.0	161.7	177.1	197.2	181.7	166.3	158.6	160.2	161.7	160.2
47.5°	137.1	140.2	144.8	163.3	175.5	167.9	151.0	146.3	146.3	146.3	147.8
50°	118.6	126.3	135.5	151.0	160.2	155.6	141.7	135.5	132.5	132.5	134.0
52.5°	106.3	112.4	124.7	143.2	155.6	147.8	134.0	124.7	118.6	117.1	120.1
55°	92.4	103.2	123.2	137.1	154.0	146.3	130.9	120.1	109.4	107.8	107.8
57.5°	83.2	100.1	118.6	135.5	149.4	143.2	130.9	117.1	103.2	101.6	101.6
60°	78.5	97.0	115.5	130.9	149.4	140.2	129.4	114.0	98.6	98.6	97.0
62.5°	73.9	90.9	109.4	124.7	143.2	135.5	124.7	109.4	94.0	94.0	90.9
65°	61.6	78.5	90.9	104.8	124.7	117.1	106.3	95.5	83.2	80.1	81.7
67.5°	43.1	53.9	66.2	80.1	92.4	89.3	84.7	77.0	66.2	64.7	63.1
70°	21.5	29.3	40.0	53.9	64.7	61.6	58.5	52.4	46.2	44.6	44.6
72.5°	3.1	9.2	16.9	24.7	33.9	35.4	33.9	32.3	30.8	29.3	30.8
75°	0.0	0.0	0.0	6.2	13.9	16.9	20.0	23.1	23.1	20.0	24.7
77.5°	0.0	0.0	0.0	0.0	1.6	7.7	15.4	20.0	24.7	21.5	29.3
80°	0.0	0.0	0.0	0.0	1.6	9.2	15.4	21.5	24.7	21.5	30.8
82.5°	0.0	0.0	0.0	0.0	1.6	10.8	15.4	20.0	23.1	21.5	27.7
85°	0.0	0.0	0.0	0.0	4.6	9.2	6.2	3.1	1.6	1.6	4.6
87.5°	0.0	0.0	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3970.6	3970.6	3970.6	3970.6	3970.6	3970.6	3970.6	3970.6	3970.6	3970.6
2.5°	3439.2	3548.6	3665.6	3710.2	3848.9	3953.6	4024.5	4177.0	4200.1	4201.6
5°	2763.1	2818.5	3018.8	3112.7	3319.1	3479.3	3650.2	3896.7	4061.4	4073.8
7.5°	1963.7	2117.7	2202.4	2447.3	2701.4	2952.5	3206.6	3493.1	3684.1	3688.7
10°	1580.3	1680.3	1831.3	2014.6	2228.7	2484.3	2823.1	3155.8	3349.9	3397.6
12.5°	1272.2	1447.8	1620.3	1809.7	1972.9	2165.5	2530.5	2974.1	3134.3	3229.7
15°	979.5	1139.7	1343.0	1564.8	1749.6	2006.8	2422.7	2929.4	3198.9	3231.3
17.5°	722.3	865.6	1053.4	1263.0	1540.2	1905.2	2441.2	3155.8	3410.0	3463.8
20°	519.1	602.2	750.0	993.4	1346.1	1786.6	2459.6	3385.3	3771.9	3864.3
22.5°	411.2	445.1	542.1	757.8	1128.9	1661.8	2590.6	3824.3	4269.4	4403.4
25°	357.3	375.8	422.0	597.6	991.9	1649.5	2800.0	4351.0	4931.6	5028.7
27.5°	345.0	348.0	388.1	548.3	917.9	1567.9	2880.1	4725.2	5344.4	5442.9
30°	363.5	412.8	415.9	463.6	780.9	1406.2	2921.7	5087.2	5694.1	5766.4
32.5°	314.2	298.8	309.6	358.8	686.9	1312.2	3000.3	5402.9	6092.9	6143.7
35°	218.7	229.5	254.2	311.1	600.6	1213.6	3020.3	5751.0	6471.8	6524.2
37.5°	201.8	207.9	227.9	264.9	528.3	1158.2	2992.5	6005.1	6864.6	6936.9
40°	187.9	195.6	206.4	240.3	474.3	1096.6	2954.0	6234.6	7104.9	7283.5
42.5°	177.1	183.3	192.5	229.5	428.1	1035.0	2900.2	6558.1	7320.4	7476.0
45°	164.8	174.1	184.8	223.3	402.0	993.4	2860.1	6538.0	7445.2	7528.4
47.5°	152.5	167.9	180.2	207.9	394.3	973.4	2877.1	6462.6	7343.5	7286.6
50°	140.2	160.2	181.7	172.5	375.8	933.3	2897.1	6565.8	7101.7	7090.9
52.5°	129.4	152.5	169.4	141.7	334.2	894.8	3091.1	6701.3	7272.7	7129.4
55°	114.0	137.1	135.5	114.0	271.1	865.6	3243.6	6704.4	7157.2	7211.1
57.5°	103.2	121.7	106.3	95.5	200.2	723.9	2995.6	5621.6	6126.8	6222.3
60°	95.5	118.6	80.1	75.5	130.9	522.1	2615.2	4354.1	4870.0	5050.3
62.5°	87.8	112.4	63.1	61.6	90.9	371.2	2150.1	3644.1	4197.0	4441.9
65°	77.0	80.1	50.8	47.8	64.7	200.2	1309.2	2509.0	3137.3	3228.2
67.5°	63.1	61.6	41.6	38.5	43.1	97.0	577.5	1256.8	1818.9	1971.4
70°	50.8	50.8	35.4	30.8	30.8	44.6	151.0	500.6	822.5	910.2
72.5°	37.0	38.5	27.7	24.7	23.1	21.5	24.7	100.1	215.6	275.7
75°	32.3	33.9	27.7	21.5	16.9	13.9	10.8	9.2	12.3	20.0
77.5°	35.4	35.4	29.3	20.0	15.4	10.8	6.2	3.1	3.1	1.6
80°	44.6	46.2	38.5	26.2	18.5	12.3	7.7	3.1	1.6	1.6
82.5°	47.8	52.4	43.1	32.3	23.1	13.9	7.7	1.6	0.0	0.0
85°	12.3	20.0	33.9	29.3	23.1	13.9	7.7	1.6	0.0	0.0
87.5°	0.0	1.6	4.6	4.6	6.2	6.2	4.6	1.6	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

(END OF REPORT)