

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: P452117

Luminaire Tested: **GALN-SA3A-740-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452117
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-740-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11768 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

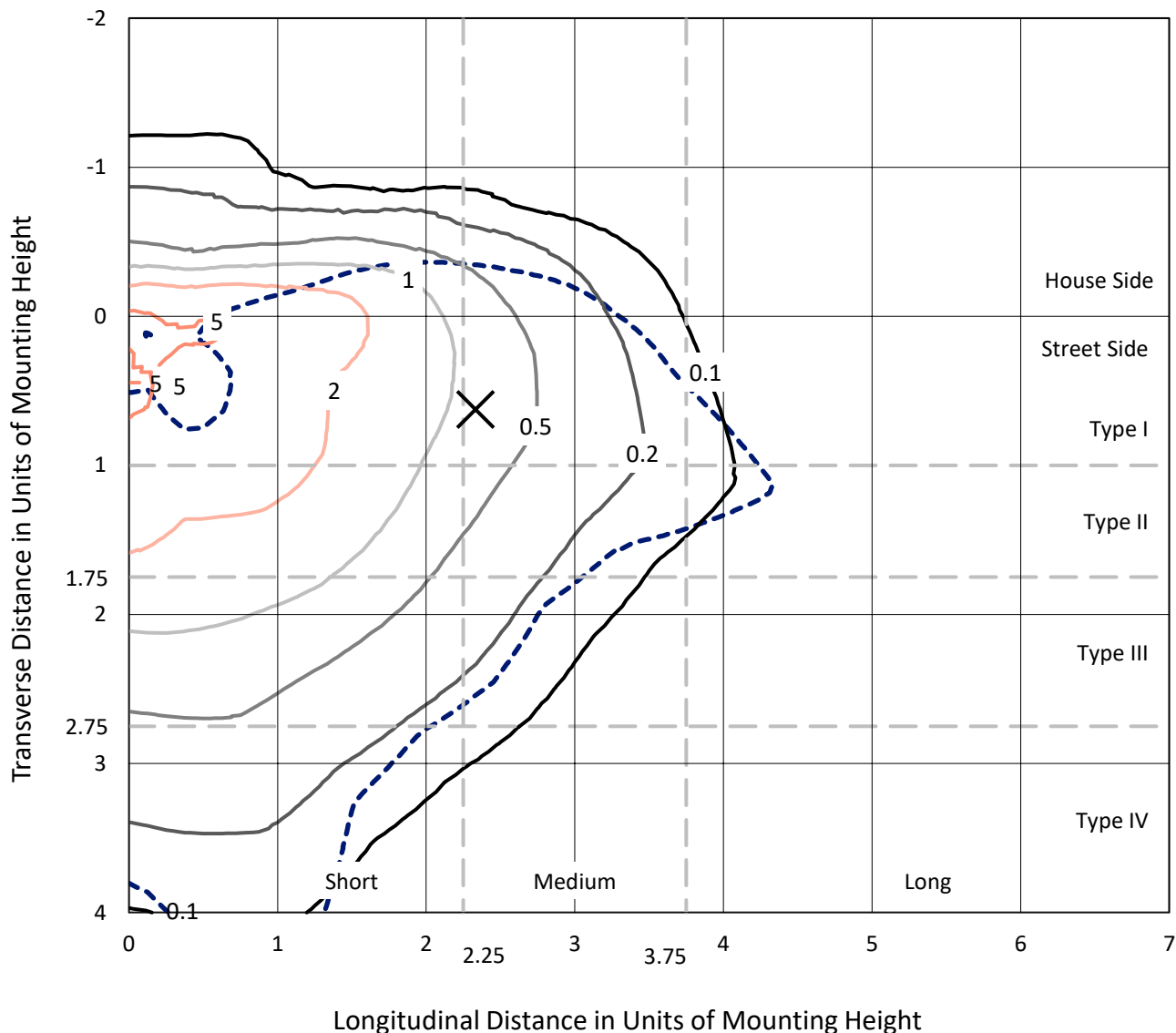
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

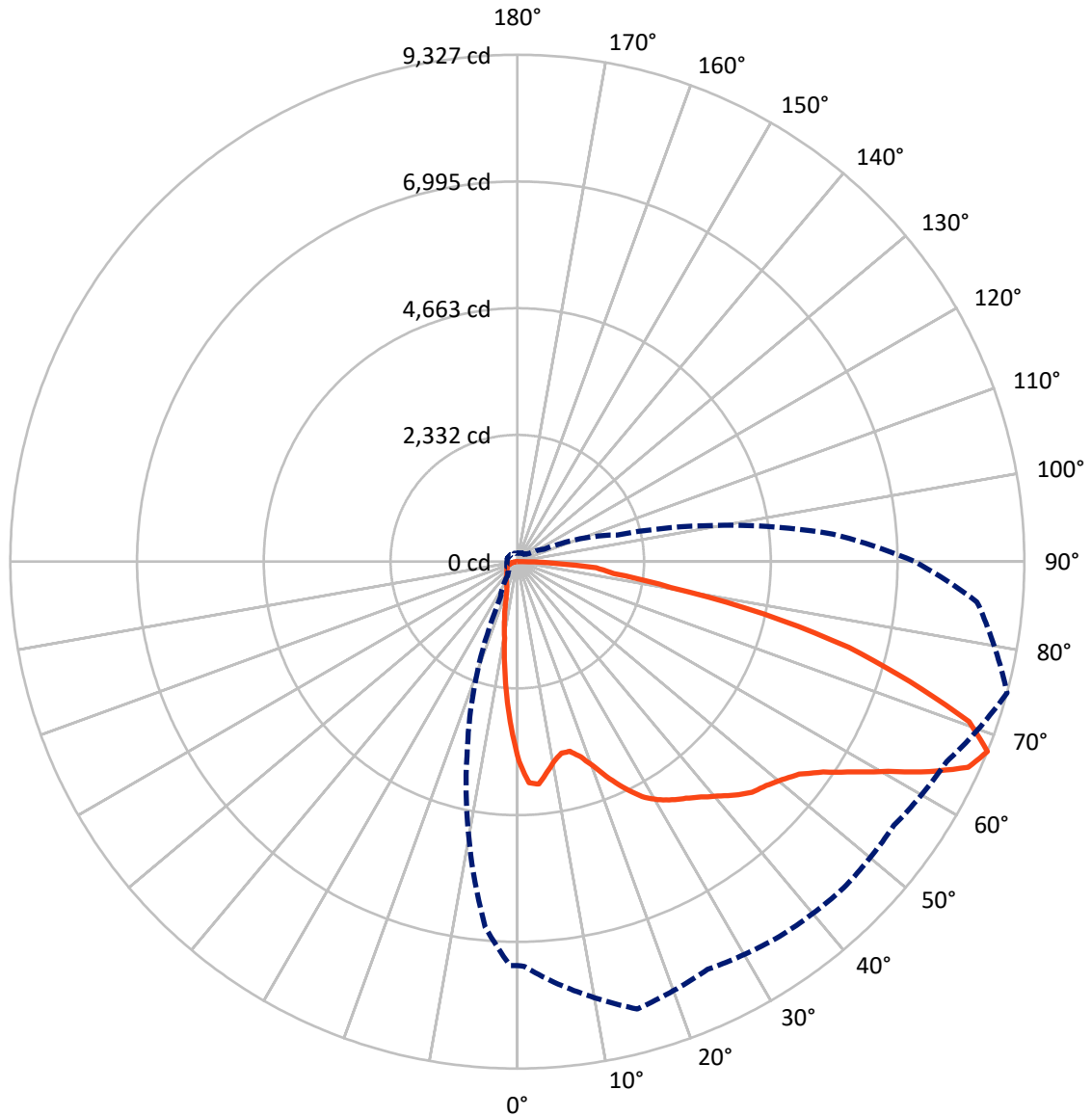
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1989.0	0.0	1989.0
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	9778.9	0.0	9778.9
	% Fixture	83.1	0.0	83.1
Total	Lumens	11768.0	0.0	11768.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.9	2.4
10°-20°	581.6	4.9
20°-30°	836.9	7.1
30°-40°	1205.4	10.2
40°-50°	1693.2	14.4
50°-60°	2361.4	20.1
60°-70°	2807.6	23.9
70°-80°	1653.5	14.1
80°-90°	349.7	3.0
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°	11768.0	100.0
0°-180°	11768.0	100.0

Coefficient of Utilization



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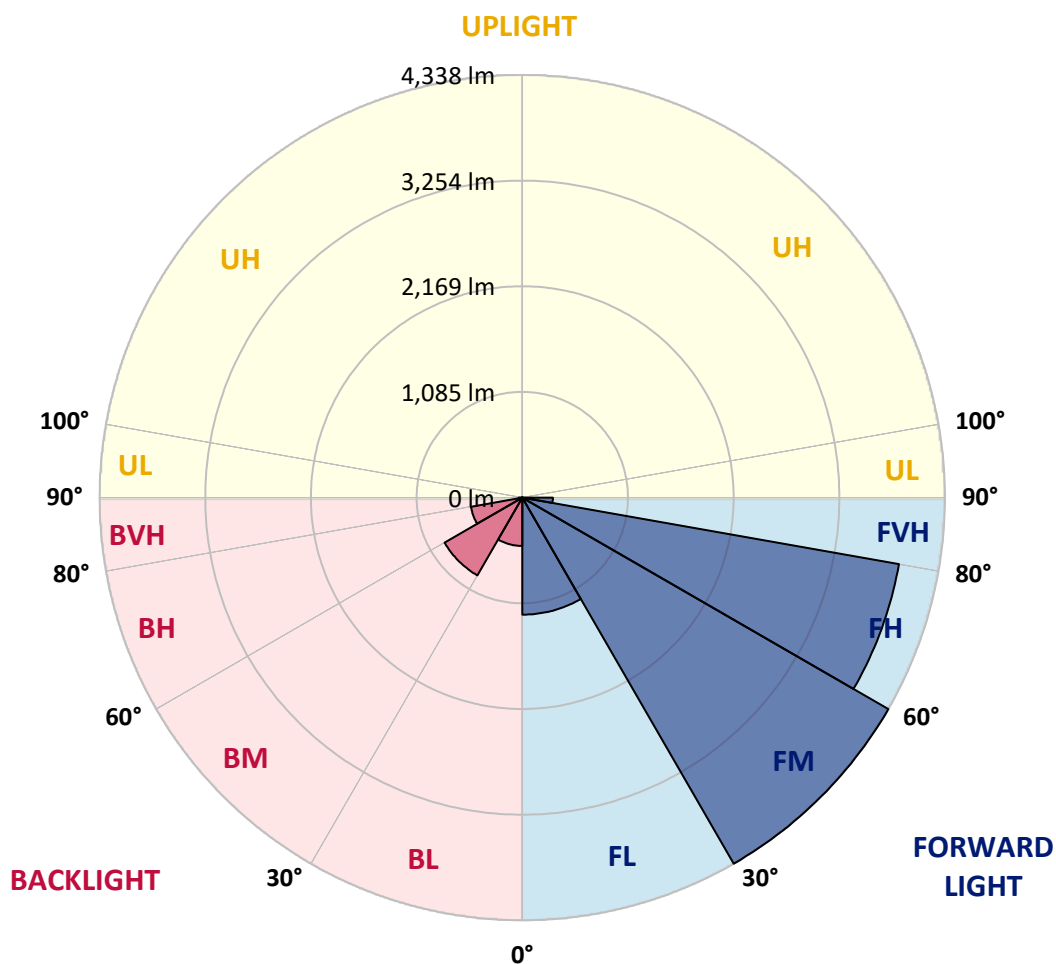
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1201.2	10.2			
FM	(30°-60°)	4338.4	36.9			
FH	(60°-80°)	3925.8	33.4			G2/5000
FVH	(80°-90°)	313.5	2.7			G3/500
BL	(0°-30°)	496.1	4.2	B1/500		
BM	(30°-60°)	921.5	7.8	B1/1000		
BH	(60°-80°)	535.2	4.5	B2/1000		G2/1000
BVH	(80°-90°)	36.2	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-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3676.6	3676.6	3676.6	3676.6	3676.6	3676.6	3676.6	3676.6	3676.6	3676.6	3676.6
2.5°	3964.1	3969.4	4003.4	4102.2	4170.1	4195.0	4212.4	4179.9	4148.3	4071.3	3955.1
5°	3952.0	3983.0	4071.3	4293.1	4468.2	4543.7	4566.3	4469.0	4308.2	4110.5	3872.8
7.5°	3721.1	3762.6	3898.5	4270.5	4579.2	4755.7	4732.3	4556.5	4266.7	3914.3	3582.3
10°	3447.2	3493.2	3657.0	4106.7	4504.4	4747.4	4747.4	4533.1	4148.3	3729.4	3346.8
12.5°	3229.9	3278.2	3465.3	3938.5	4349.0	4579.2	4617.6	4433.5	4063.0	3612.5	3192.1
15°	3158.2	3205.0	3406.4	3836.6	4184.5	4324.8	4337.7	4277.3	4021.5	3620.8	3185.3
17.5°	3247.2	3307.6	3511.3	3866.8	4033.5	4041.8	4051.7	4099.2	4026.0	3772.4	3322.7
20°	3504.5	3569.4	3782.3	3964.1	3901.5	3815.5	3820.7	3943.0	4079.6	4023.0	3650.9
22.5°	3875.8	3932.4	4150.5	4135.4	3845.6	3668.3	3631.3	3801.9	4158.8	4335.4	4000.3
25°	4276.5	4342.9	4593.5	4389.7	3861.5	3580.8	3557.4	3718.9	4241.1	4627.4	4404.1
27.5°	4735.4	4800.3	4998.0	4646.3	3944.5	3574.0	3546.0	3711.3	4315.0	4897.6	4789.7
30°	5076.5	5136.1	5270.4	4862.1	4046.4	3619.2	3584.5	3770.9	4378.4	5082.5	5165.5
32.5°	5344.4	5406.2	5479.4	4996.5	4180.7	3701.5	3637.4	3879.6	4461.4	5223.6	5444.0
35°	5623.6	5696.8	5691.5	5115.7	4306.0	3796.6	3734.0	4036.6	4592.0	5346.6	5797.1
37.5°	5977.5	6006.9	5969.2	5222.9	4456.1	3967.9	3933.2	4269.7	4777.6	5495.3	6209.9
40°	6336.7	6395.6	6201.6	5352.7	4638.8	4290.1	4286.4	4614.6	4998.0	5669.6	6609.9
42.5°	6644.6	6694.4	6419.0	5465.9	4859.9	4683.3	4712.0	5077.2	5287.0	5871.8	6931.4
45°	6876.3	6920.8	6619.7	5575.3	5151.2	5137.6	5306.6	5573.0	5651.5	6053.7	7120.0
47.5°	7073.2	7116.2	6759.3	5741.3	5511.1	5680.2	5974.5	6089.9	5963.2	6157.9	7331.3
50°	7239.3	7252.1	6855.1	5939.0	5957.9	6345.0	6630.3	6705.0	6271.1	6307.3	7514.7
52.5°	7412.1	7395.5	7020.4	6188.0	6440.8	6975.9	7183.4	7261.1	6566.1	6491.4	7781.8
55°	7799.2	7815.0	7390.9	6502.0	6929.1	7595.4	7868.6	7793.9	6892.9	6830.2	8121.4
57.5°	8267.1	8253.5	7912.4	6993.2	7426.4	8172.0	8375.7	8255.8	7329.1	7295.9	8465.5
60°	8448.9	8467.1	8348.6	7521.5	7916.9	8676.8	8885.1	8698.7	7852.0	7836.9	8725.1
62.5°	8266.3	8368.2	8448.2	7991.6	8335.0	9048.1	9254.9	9042.1	8397.6	8507.0	8907.0
65°	7902.6	7924.5	8196.9	8390.1	8536.5	9109.2	9217.2	9104.0	8853.4	9117.5	8898.7
67.5°	7430.2	7449.0	7768.3	8520.6	8276.9	8415.0	8490.4	8457.2	8712.3	9326.6	8488.9
70°	6980.4	6965.3	7302.6	8187.8	7205.3	6995.5	7058.1	6954.0	7517.7	8815.7	7685.2
72.5°	6105.0	6159.4	6521.6	7262.6	5705.1	5364.0	5500.6	5231.2	5782.0	7550.2	6237.8
75°	4782.1	4795.0	5399.4	6095.2	4303.7	3765.6	3950.5	3838.1	4429.0	6298.2	4307.5
77.5°	3311.4	3282.7	3932.4	4655.4	3069.1	2756.7	2759.7	2706.1	3092.5	4637.3	2926.5
80°	2103.2	2059.4	2461.6	2875.9	2109.2	2256.4	2182.4	2180.2	2013.4	2860.8	1769.6
82.5°	1136.5	1184.8	1555.3	1802.8	1513.1	1744.0	1598.3	1551.5	1381.7	1790.8	1132.0
85°	517.7	563.0	829.3	1226.3	1149.3	1162.1	776.5	916.1	1143.3	1454.2	604.5
87.5°	50.6	64.9	171.3	578.8	392.4	309.4	115.5	222.6	287.5	516.9	48.3
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°	3676.6	3676.6	3676.6	3676.6	3676.6	3676.6	3676.6	3676.6	3676.6	3676.6	3676.6
2.5°	3907.5	3868.3	3734.7	3624.5	3507.6	3418.5	3302.3	3224.6	3171.0	3090.2	3080.4
5°	3727.9	3632.1	3399.6	3162.7	2958.2	2804.2	2648.0	2504.6	2420.1	2393.7	2359.8
7.5°	3425.3	3263.8	2965.0	2693.3	2458.6	2229.2	2052.6	1927.3	1843.6	1794.5	1735.7
10°	3176.3	2989.1	2625.4	2292.6	2099.4	1956.8	1801.3	1667.0	1563.6	1475.3	1427.0
12.5°	3008.7	2797.4	2388.4	2118.3	1968.9	1817.2	1635.3	1484.4	1331.9	1231.6	1188.6
15°	2958.2	2734.8	2315.2	2031.5	1817.2	1618.7	1414.9	1218.0	1067.1	972.0	940.3
17.5°	3081.9	2811.8	2314.5	1916.0	1639.1	1402.1	1141.0	956.1	801.4	730.5	707.9
20°	3312.9	2959.7	2321.3	1802.1	1445.9	1112.3	830.1	678.4	604.5	574.3	563.0
22.5°	3635.1	3185.3	2341.6	1689.6	1234.6	854.3	621.8	544.8	518.4	513.2	510.9
25°	4032.0	3464.5	2410.3	1588.5	1056.5	652.0	519.9	485.2	470.1	464.9	464.1
27.5°	4397.3	3825.3	2493.3	1501.7	884.4	562.2	470.1	440.7	425.6	424.9	426.4
30°	4727.1	4127.1	2562.8	1404.4	753.9	499.6	437.7	408.3	393.9	393.2	397.7
32.5°	5012.3	4375.4	2614.1	1308.5	681.4	461.1	408.3	376.6	364.5	362.2	364.5
35°	5317.2	4622.9	2590.7	1233.8	639.9	429.4	386.4	355.4	341.1	334.3	334.3
37.5°	5665.1	4878.0	2550.7	1172.0	621.1	403.0	367.5	337.3	323.0	316.2	315.4
40°	6044.7	5133.1	2495.6	1116.9	602.2	387.1	354.7	323.0	305.6	298.8	297.3
42.5°	6379.7	5351.1	2450.3	1080.6	571.3	390.1	343.4	312.4	290.5	281.5	280.7
45°	6671.0	5570.7	2442.0	1059.5	545.6	385.6	340.3	304.1	278.5	268.7	267.1
47.5°	6898.9	5799.4	2489.6	1047.4	517.7	361.5	360.0	298.8	267.9	257.3	255.8
50°	7176.6	6123.9	2598.2	1022.5	492.0	338.8	380.3	298.1	259.6	246.0	242.2
52.5°	7546.4	6546.5	2745.4	978.0	455.0	317.7	363.0	298.1	249.8	236.2	231.7
55°	8105.6	7085.3	2889.5	915.4	403.0	289.8	327.5	289.0	235.4	223.4	220.4
57.5°	8476.1	7479.2	2981.6	828.6	338.1	269.4	282.2	274.7	221.1	208.3	208.3
60°	8495.0	7584.9	2937.8	719.2	297.3	250.5	245.3	277.0	208.3	194.7	193.2
62.5°	8277.6	7326.0	2709.9	621.1	275.4	230.2	221.9	243.0	195.5	181.9	179.6
65°	7938.0	6665.7	2314.5	574.3	263.4	212.1	200.0	199.2	181.9	169.0	166.0
67.5°	7314.0	5825.1	1901.7	547.1	257.3	191.7	180.4	176.6	166.0	155.5	153.9
70°	6394.1	4878.7	1525.1	535.8	254.3	170.5	161.5	157.0	147.9	139.6	138.9
72.5°	4974.6	3957.3	1258.7	528.2	252.8	150.9	141.1	135.1	129.8	122.3	122.3
75°	3573.2	2911.4	960.7	476.2	233.9	129.8	119.2	115.5	107.9	101.9	103.4
77.5°	2252.6	1960.6	632.4	350.2	181.1	104.1	95.1	92.8	86.8	78.5	83.8
80°	1521.4	1378.7	369.0	220.4	114.0	76.2	73.2	72.4	65.7	56.6	57.4
82.5°	1035.4	1015.7	191.7	125.3	65.7	44.5	43.0	44.5	37.0	30.2	30.2
85°	404.5	552.4	90.6	49.1	21.1	6.8	9.8	10.6	6.0	3.0	3.8
87.5°	7.5	56.6	2.3	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°	3676.6	3676.6	3676.6	3676.6	3676.6	3676.6	3676.6	3676.6	3676.6	3676.6	3676.6
2.5°	3065.3	3058.6	3069.9	3021.6	3031.4	3049.5	3058.6	3063.8	3138.5	3121.2	3168.7
5°	2391.5	2384.7	2428.4	2434.5	2457.1	2452.6	2474.5	2479.7	2506.9	2516.7	2583.1
7.5°	1739.4	1768.9	1818.7	1844.3	1882.8	1894.9	1883.6	1911.5	1854.9	1895.7	1907.7
10°	1397.6	1362.1	1341.0	1399.9	1407.4	1463.2	1440.6	1422.5	1455.7	1457.2	1488.9
12.5°	1163.7	1087.4	1036.9	1053.5	1071.6	1095.7	1099.5	1135.7	1159.9	1182.5	1201.4
15°	912.4	885.9	839.9	817.3	842.9	852.7	876.1	906.3	932.0	938.8	964.4
17.5°	700.3	704.8	697.3	683.7	699.6	707.1	708.6	709.4	716.2	711.6	749.4
20°	563.7	579.6	598.4	601.4	606.7	610.5	603.7	578.1	578.8	594.7	606.7
22.5°	510.1	513.2	534.3	541.1	557.7	550.9	531.3	519.2	517.7	521.5	527.5
25°	467.9	472.4	487.5	498.1	510.9	498.8	484.5	473.2	471.6	475.4	481.5
27.5°	430.1	436.9	450.5	461.1	473.2	461.8	448.3	438.4	437.7	436.9	440.7
30°	400.0	407.5	417.3	429.4	437.7	427.9	415.1	409.8	409.0	407.5	409.0
32.5°	369.8	381.8	391.7	397.7	406.0	398.4	388.6	385.6	380.3	375.8	373.5
35°	335.8	348.6	363.7	371.3	379.6	372.0	365.2	352.4	343.4	342.6	344.1
37.5°	316.2	321.5	333.6	346.4	354.7	350.9	338.1	325.2	323.0	323.0	324.5
40°	298.8	301.1	306.4	323.0	338.1	326.8	310.9	307.1	307.1	306.4	307.1
42.5°	281.5	283.7	283.7	296.6	320.7	302.6	290.5	290.5	290.5	291.3	293.6
45°	265.6	266.4	265.6	274.7	297.3	282.2	273.9	276.2	277.7	279.2	280.7
47.5°	252.0	252.8	252.0	259.6	270.9	264.9	260.4	263.4	266.4	268.7	270.2
50°	240.0	239.2	240.7	245.3	250.5	252.0	249.0	253.6	255.1	258.1	261.9
52.5°	229.4	228.7	230.2	232.4	240.0	240.0	240.0	243.7	246.8	249.8	255.1
55°	217.3	218.1	220.4	223.4	233.2	231.7	232.4	235.4	238.5	243.0	246.0
57.5°	206.0	207.5	210.5	215.1	224.9	224.1	224.9	226.4	230.2	232.4	235.4
60°	193.2	196.2	200.0	203.0	212.8	212.1	215.8	218.8	221.1	221.1	222.6
62.5°	180.4	184.9	188.7	190.9	201.5	202.2	207.5	209.8	211.3	209.8	212.1
65°	167.5	174.3	175.8	178.8	189.4	190.2	196.2	201.5	200.0	198.5	202.2
67.5°	154.7	163.0	162.2	166.0	176.6	178.1	183.4	192.4	189.4	187.9	190.9
70°	140.4	146.4	147.2	149.4	163.8	161.5	169.8	178.1	175.8	176.6	176.6
72.5°	124.5	129.8	129.8	134.3	149.4	145.6	152.4	161.5	161.5	160.7	160.7
75°	105.6	108.7	111.7	118.5	134.3	129.8	134.3	142.6	144.1	142.6	142.6
77.5°	85.3	89.8	91.3	100.4	111.7	110.9	115.5	119.2	122.3	120.7	120.7
80°	60.4	64.9	70.9	80.7	87.5	89.8	92.1	95.1	96.6	96.6	98.1
82.5°	34.0	40.8	46.0	55.8	58.9	70.2	69.4	71.7	69.4	61.1	67.9
85°	7.5	14.3	20.4	25.7	29.4	40.8	43.0	48.3	40.0	37.0	37.0
87.5°	0.0	0.0	0.0	0.0	0.0	6.0	12.1	16.6	14.3	12.1	12.1
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°	3676.6	3676.6	3676.6	3676.6	3676.6	3676.6	3676.6	3676.6	3676.6	3676.6
2.5°	3208.7	3274.4	3353.6	3490.2	3586.0	3689.4	3793.6	3904.5	3933.9	3964.1
5°	2601.2	2730.3	2800.5	2983.8	3176.3	3420.8	3620.8	3839.6	3930.9	3952.0
7.5°	1970.4	2057.9	2242.0	2427.7	2666.1	2922.7	3229.1	3570.2	3676.6	3721.1
10°	1562.1	1681.3	1842.8	2042.1	2251.1	2527.3	2872.9	3271.4	3422.3	3447.2
12.5°	1329.7	1462.5	1638.3	1848.9	2046.6	2254.9	2603.5	3014.8	3176.3	3229.9
15°	1063.3	1224.0	1427.0	1648.9	1864.0	2091.9	2445.0	2909.1	3095.5	3158.2
17.5°	835.4	965.2	1184.8	1425.5	1680.6	1968.9	2411.8	2959.7	3189.1	3247.2
20°	639.2	732.0	916.9	1171.2	1470.0	1847.4	2420.1	3150.6	3425.3	3504.5
22.5°	552.4	599.9	712.4	954.6	1288.9	1741.7	2454.1	3412.5	3743.8	3875.8
25°	500.3	525.2	588.6	747.1	1116.1	1639.1	2531.8	3764.9	4189.0	4276.5
27.5°	455.8	473.9	513.2	627.1	959.1	1544.0	2622.4	4155.8	4604.8	4735.4
30°	413.5	437.7	474.7	556.9	858.8	1457.2	2736.3	4472.7	4955.0	5076.5
32.5°	381.1	405.2	439.2	507.9	773.5	1365.9	2804.2	4751.2	5241.0	5344.4
35°	354.7	375.1	410.5	468.6	708.6	1296.5	2790.7	4972.3	5517.9	5623.6
37.5°	335.8	353.2	388.6	431.7	659.6	1224.0	2783.9	5264.4	5855.2	5977.5
40°	318.5	336.6	369.0	407.5	610.5	1138.8	2787.6	5554.1	6214.5	6336.7
42.5°	304.9	325.2	351.7	400.7	559.9	1070.1	2787.6	5806.2	6526.9	6644.6
45°	293.6	315.4	341.1	400.0	519.9	1018.0	2768.8	6022.8	6775.9	6876.3
47.5°	283.7	307.9	344.9	386.4	510.1	980.3	2752.2	6196.3	6978.9	7073.2
50°	277.0	305.6	366.8	370.5	513.2	969.0	2832.2	6415.2	7157.8	7239.3
52.5°	271.7	306.4	366.0	347.1	507.9	976.5	2998.9	6757.0	7406.0	7412.1
55°	261.1	305.6	347.1	320.7	486.0	989.3	3213.3	7253.6	7794.7	7799.2
57.5°	250.5	297.3	322.2	298.1	441.5	989.3	3471.3	7723.7	8263.3	8267.1
60°	240.0	309.4	283.0	278.5	383.4	971.2	3743.8	7930.5	8410.5	8448.9
62.5°	229.4	311.7	252.8	261.1	341.1	927.5	3946.8	7701.8	8211.2	8266.3
65°	217.3	251.3	233.2	243.0	319.2	854.3	3882.6	7283.0	7836.9	7902.6
67.5°	203.0	212.8	212.1	224.1	311.7	746.3	3544.5	6753.3	7433.9	7430.2
70°	185.6	190.9	193.2	206.0	297.3	662.6	2953.7	6065.8	6895.9	6980.4
72.5°	167.5	172.1	174.3	185.6	283.0	615.0	2292.6	5118.7	5973.0	6105.0
75°	147.9	150.9	153.9	163.8	267.9	544.8	1633.0	3907.5	4574.6	4782.1
77.5°	127.5	127.5	131.3	141.1	225.6	449.8	1095.7	2740.8	3099.3	3311.4
80°	103.4	104.1	102.6	113.2	166.0	307.9	622.6	1830.8	2062.4	2103.2
82.5°	79.2	77.0	77.7	83.0	123.8	209.8	332.0	1137.2	1159.1	1136.5
85°	49.8	49.8	48.3	54.3	79.2	109.4	181.1	696.5	544.1	517.7
87.5°	20.4	16.6	18.9	21.9	37.7	44.5	70.9	143.4	55.1	50.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)