

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: P451653

Luminaire Tested: **GALN-SA2C-740-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451653
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-SA2C-740-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA 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: 12187 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

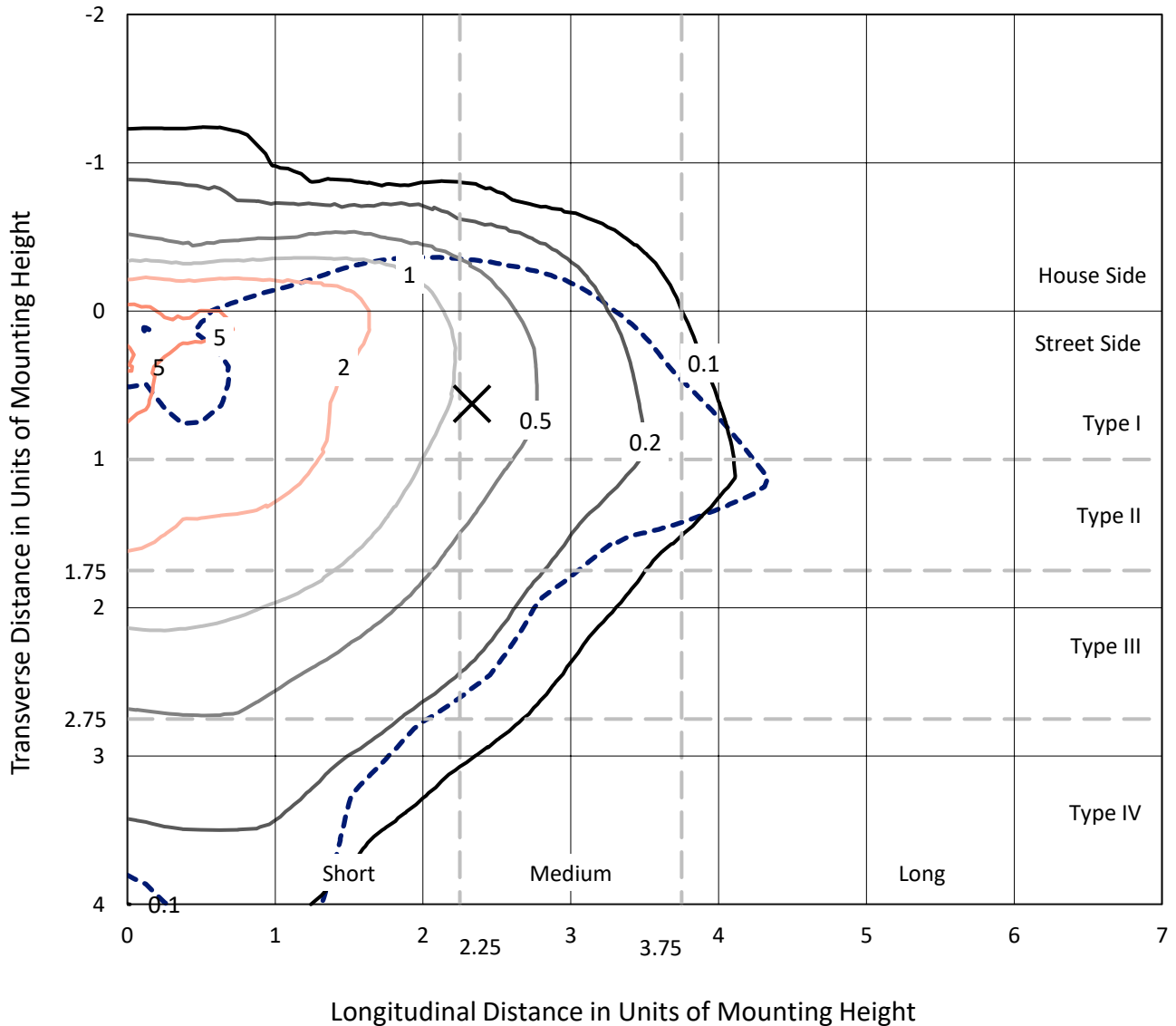
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

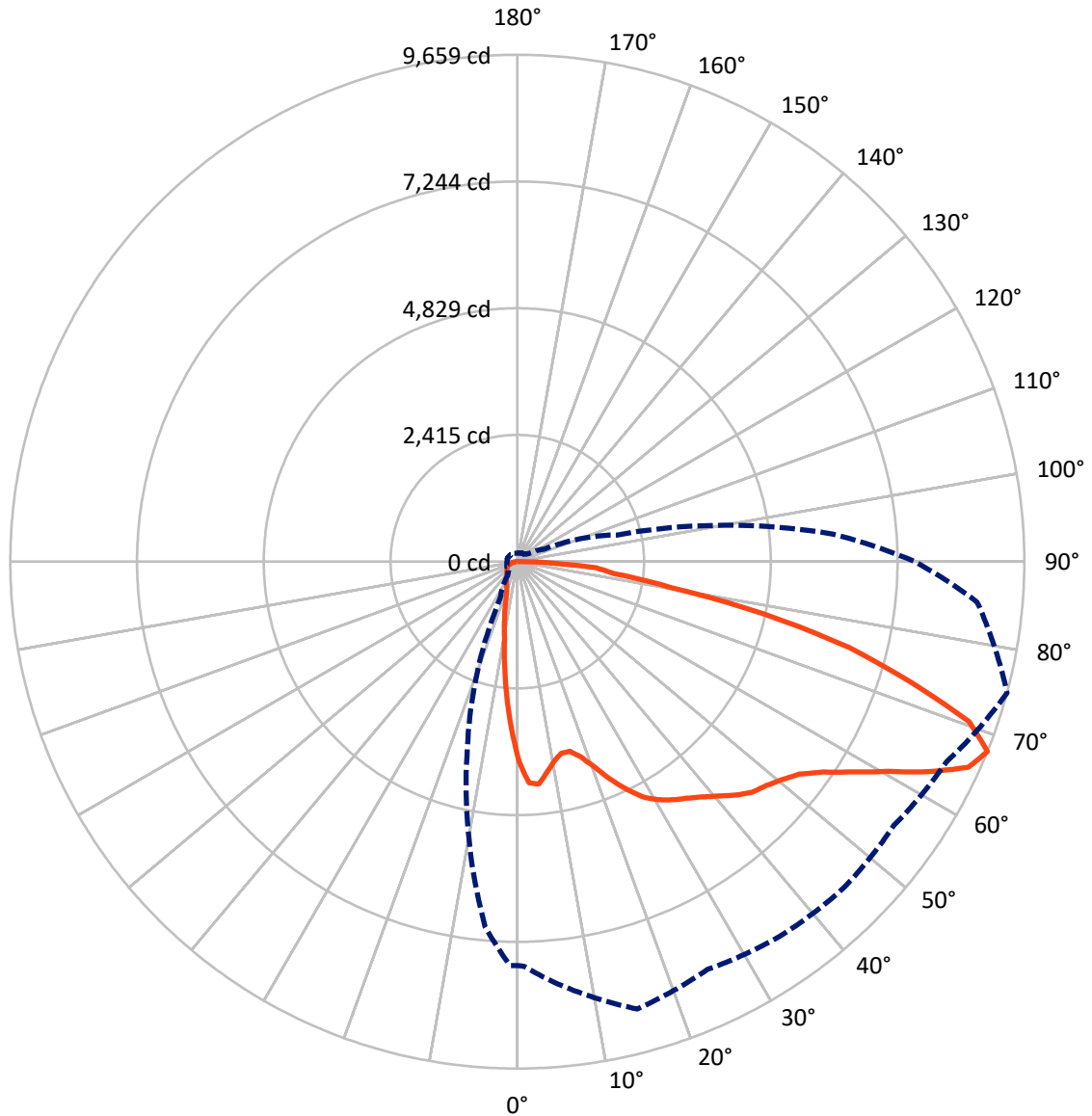
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	2059.9	0.0	2059.9
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	10127.1	0.0	10127.1
	% Fixture	83.1	0.0	83.1
Total	Lumens	12187.0	0.0	12187.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.8	2.4
10°-20°	602.3	4.9
20°-30°	866.7	7.1
30°-40°	1248.3	10.2
40°-50°	1753.5	14.4
50°-60°	2445.5	20.1
60°-70°	2907.5	23.9
70°-80°	1712.4	14.1
80°-90°	362.1	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°	12187.0	100.0
0°-180°	12187.0	100.0

Coefficient of Utilization



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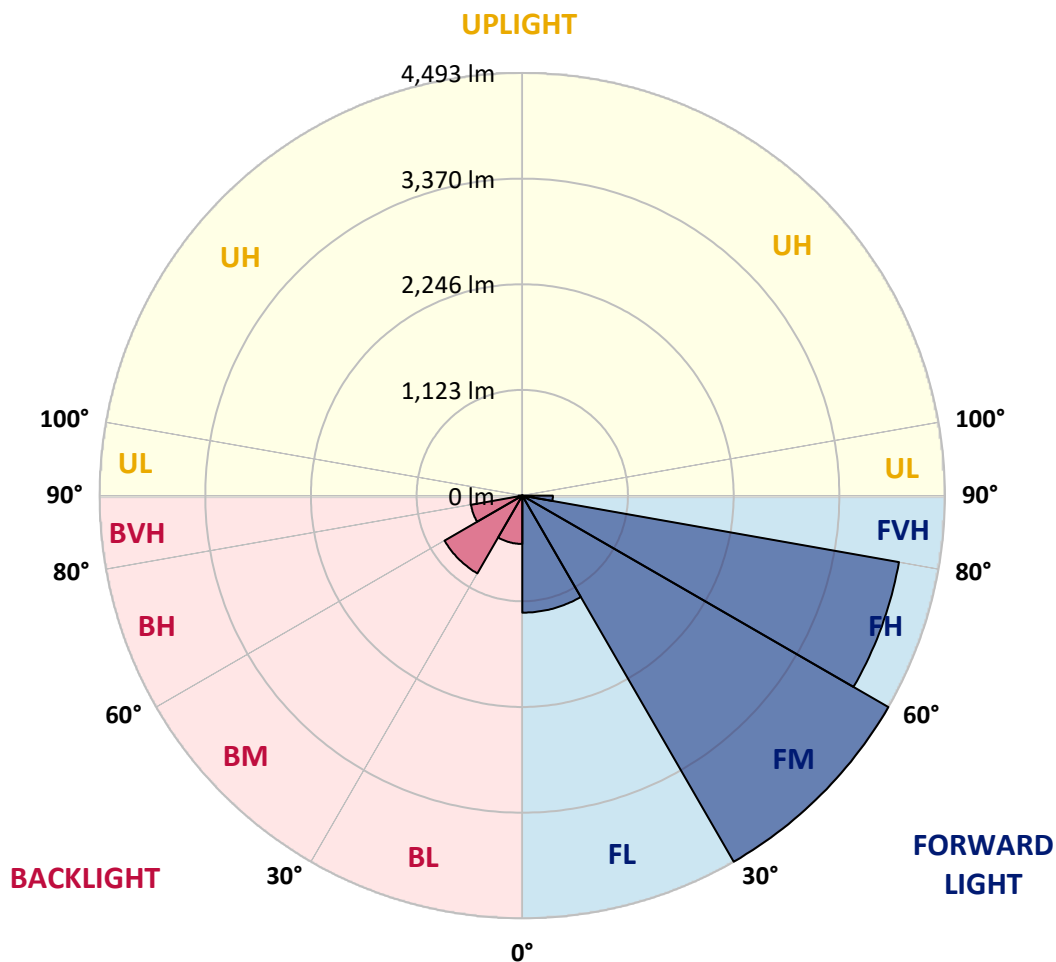
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1244.0	10.2			
FM	(30°-60°)	4492.9	36.9			
FH	(60°-80°)	4065.6	33.4			G2/5000
FVH	(80°-90°)	324.7	2.7			G3/500
BL	(0°-30°)	513.8	4.2	B2/1000		
BM	(30°-60°)	954.3	7.8	B1/1000		
BH	(60°-80°)	554.3	4.5	B2/1000		G2/1000
BVH	(80°-90°)	37.5	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°	3807.5	3807.5	3807.5	3807.5	3807.5	3807.5	3807.5	3807.5	3807.5	3807.5	3807.5
2.5°	4105.3	4110.7	4145.9	4248.3	4318.6	4344.4	4362.4	4328.8	4295.9	4216.2	4095.9
5°	4092.8	4124.8	4216.2	4446.0	4627.3	4705.5	4728.9	4628.1	4461.6	4256.9	4010.7
7.5°	3853.6	3896.6	4037.3	4422.6	4742.2	4925.1	4900.8	4718.7	4418.6	4053.7	3709.8
10°	3569.9	3617.6	3787.2	4253.0	4664.8	4916.5	4916.5	4694.5	4295.9	3862.2	3466.0
12.5°	3344.9	3394.9	3588.7	4078.7	4503.8	4742.2	4782.0	4591.4	4207.6	3741.1	3305.8
15°	3270.6	3319.1	3527.7	3973.2	4333.5	4478.8	4492.1	4429.6	4164.7	3749.7	3298.7
17.5°	3362.8	3425.3	3636.4	4004.4	4177.2	4185.8	4195.9	4245.2	4169.3	3906.8	3441.0
20°	3629.3	3696.5	3916.9	4105.3	4040.4	3951.3	3956.8	4083.4	4224.8	4166.2	3780.9
22.5°	4013.8	4072.4	4298.3	4282.7	3982.6	3798.9	3760.6	3937.2	4306.9	4489.8	4142.8
25°	4428.8	4497.6	4757.0	4546.0	3999.0	3708.3	3684.0	3851.3	4392.1	4792.2	4560.9
27.5°	4904.0	4971.2	5175.9	4811.7	4084.9	3701.2	3672.3	3843.5	4468.7	5072.0	4960.2
30°	5257.2	5318.9	5458.1	5035.3	4190.4	3748.1	3712.2	3905.2	4534.3	5263.5	5349.4
32.5°	5534.6	5598.7	5674.5	5174.4	4329.6	3833.3	3766.9	4017.7	4620.3	5409.6	5637.8
35°	5823.8	5899.6	5894.1	5297.8	4459.3	3931.8	3866.9	4180.3	4755.5	5537.0	6003.5
37.5°	6190.3	6220.8	6181.7	5408.8	4614.8	4109.2	4073.2	4421.8	4947.7	5690.9	6431.0
40°	6562.3	6623.3	6422.4	5543.2	4803.9	4442.9	4439.0	4778.9	5175.9	5871.5	6845.2
42.5°	6881.2	6932.8	6647.5	5660.5	5032.9	4850.0	4879.7	5258.0	5475.2	6080.9	7178.2
45°	7121.1	7167.2	6855.4	5773.8	5334.6	5320.5	5495.6	5771.4	5852.7	6269.3	7373.5
47.5°	7325.1	7369.6	7000.0	5945.7	5707.4	5882.4	6187.2	6306.8	6175.5	6377.1	7592.4
50°	7497.0	7510.3	7099.2	6150.5	6170.0	6570.9	6866.3	6943.7	6494.3	6531.8	7782.3
52.5°	7676.0	7658.8	7270.4	6408.4	6670.2	7224.3	7439.2	7519.7	6799.9	6722.5	8058.9
55°	8076.9	8093.3	7654.1	6733.5	7175.8	7865.9	8148.8	8071.4	7138.3	7073.4	8410.6
57.5°	8561.4	8547.4	8194.1	7242.2	7690.8	8463.0	8674.0	8549.7	7590.0	7555.6	8767.0
60°	8749.8	8768.5	8645.8	7789.3	8198.8	8985.8	9201.5	9008.4	8131.6	8116.0	9035.8
62.5°	8560.6	8666.1	8749.0	8276.2	8631.8	9370.3	9584.4	9364.0	8696.6	8809.9	9224.1
65°	8184.0	8206.6	8488.7	8688.8	8840.4	9433.6	9545.3	9428.1	9168.7	9442.2	9215.5
67.5°	7694.7	7714.3	8044.8	8824.0	8571.6	8714.6	8792.7	8758.4	9022.5	9658.7	8791.2
70°	7228.9	7213.3	7562.7	8479.4	7461.8	7244.6	7309.4	7201.6	7785.4	9129.6	7958.9
72.5°	6322.4	6378.7	6753.8	7521.2	5908.2	5555.0	5696.4	5417.4	5987.9	7819.0	6459.9
75°	4952.4	4965.7	5591.7	6312.2	4456.9	3899.7	4091.2	3974.7	4586.7	6522.5	4460.8
77.5°	3429.3	3399.6	4072.4	4821.1	3178.4	2854.8	2858.0	2802.5	3202.6	4802.4	3030.7
80°	2178.1	2132.7	2549.3	2978.3	2184.3	2336.7	2260.1	2257.8	2085.1	2962.7	1832.6
82.5°	1177.0	1227.0	1610.7	1867.0	1566.9	1806.1	1655.2	1606.8	1430.9	1854.5	1172.3
85°	536.1	583.0	858.9	1270.0	1190.2	1203.5	804.2	948.8	1184.0	1506.0	626.0
87.5°	52.4	67.2	177.4	599.4	406.4	320.4	119.6	230.5	297.8	535.3	50.0
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°	3807.5	3807.5	3807.5	3807.5	3807.5	3807.5	3807.5	3807.5	3807.5	3807.5	3807.5
2.5°	4046.6	4006.0	3867.7	3753.6	3632.4	3540.2	3419.9	3339.4	3283.9	3200.3	3190.1
5°	3860.6	3761.4	3520.7	3275.3	3063.5	2904.1	2742.3	2593.8	2506.3	2478.9	2443.8
7.5°	3547.3	3380.0	3070.5	2789.2	2546.2	2308.6	2125.7	1996.0	1909.2	1858.4	1797.5
10°	3289.4	3095.6	2718.9	2374.2	2174.2	2026.5	1865.5	1726.4	1619.3	1527.8	1477.8
12.5°	3115.9	2897.1	2473.5	2193.7	2039.0	1881.9	1693.5	1537.2	1379.4	1275.4	1230.9
15°	3063.5	2832.2	2397.7	2103.8	1881.9	1676.3	1465.3	1261.4	1105.1	1006.6	973.8
17.5°	3191.7	2911.9	2396.9	1984.2	1697.4	1452.0	1181.6	990.2	830.0	756.5	733.1
20°	3430.8	3065.1	2403.9	1866.2	1497.4	1151.9	859.7	702.6	626.0	594.7	583.0
22.5°	3764.5	3298.7	2425.0	1749.8	1278.5	884.7	644.0	564.2	536.9	531.4	529.1
25°	4175.6	3587.9	2496.1	1645.1	1094.1	675.2	538.5	502.5	486.9	481.4	480.6
27.5°	4553.8	3961.5	2582.1	1555.2	915.9	582.2	486.9	456.4	440.8	440.0	441.6
30°	4895.4	4274.1	2654.0	1454.4	780.7	517.4	453.3	422.8	407.9	407.2	411.9
32.5°	5190.8	4531.2	2707.1	1355.1	705.7	477.5	422.8	390.0	377.5	375.1	377.5
35°	5506.5	4787.5	2682.9	1277.8	662.7	444.7	400.1	368.1	353.2	346.2	346.2
37.5°	5866.8	5051.7	2641.5	1213.7	643.2	417.3	380.6	349.3	334.5	327.5	326.7
40°	6259.9	5315.8	2584.4	1156.6	623.6	400.9	367.3	334.5	316.5	309.5	307.9
42.5°	6606.9	5541.7	2537.6	1119.1	591.6	404.0	355.6	323.5	300.9	291.5	290.7
45°	6908.5	5769.1	2529.0	1097.2	565.0	399.4	352.5	314.9	288.4	278.2	276.7
47.5°	7144.5	6005.9	2578.2	1084.7	536.1	374.3	372.8	309.5	277.4	266.5	264.9
50°	7432.1	6341.9	2690.7	1058.9	509.5	350.9	393.9	308.7	268.8	254.8	250.9
52.5°	7815.1	6779.6	2843.1	1012.8	471.2	329.0	375.9	308.7	258.7	244.6	239.9
55°	8394.2	7337.6	2992.4	948.0	417.3	300.1	339.2	299.3	243.8	231.3	228.2
57.5°	8777.9	7745.5	3087.7	858.1	350.1	279.0	292.3	284.5	229.0	215.7	215.7
60°	8797.4	7854.9	3042.4	744.8	307.9	259.5	254.0	286.8	215.7	201.6	200.1
62.5°	8572.4	7586.9	2806.4	643.2	285.3	238.4	229.8	251.6	202.4	188.3	186.0
65°	8220.7	6903.1	2396.9	594.7	272.7	219.6	207.1	206.3	188.3	175.1	171.9
67.5°	7574.4	6032.5	1969.4	566.6	266.5	198.5	186.8	182.9	171.9	161.0	159.4
70°	6621.7	5052.4	1579.4	554.9	263.4	176.6	167.2	162.6	153.2	144.6	143.8
72.5°	5151.7	4098.2	1303.6	547.1	261.8	156.3	146.1	139.9	134.4	126.6	126.6
75°	3700.4	3015.1	994.9	493.1	242.3	134.4	123.5	119.6	111.8	105.5	107.1
77.5°	2332.8	2030.4	654.9	362.6	187.6	107.8	98.5	96.1	89.9	81.3	86.7
80°	1575.5	1427.8	382.2	228.2	118.0	78.9	75.8	75.0	68.0	58.6	59.4
82.5°	1072.2	1051.9	198.5	129.7	68.0	46.1	44.5	46.1	38.3	31.3	31.3
85°	418.9	572.1	93.8	50.8	21.9	7.0	10.2	10.9	6.3	3.1	3.9
87.5°	7.8	58.6	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°	3807.5	3807.5	3807.5	3807.5	3807.5	3807.5	3807.5	3807.5	3807.5	3807.5	3807.5
2.5°	3174.5	3167.5	3179.2	3129.2	3139.3	3158.1	3167.5	3172.9	3250.3	3232.3	3281.6
5°	2476.6	2469.6	2514.9	2521.1	2544.6	2539.9	2562.6	2568.0	2596.2	2606.3	2675.1
7.5°	1801.4	1831.9	1883.4	1910.0	1949.9	1962.4	1950.6	1979.6	1920.9	1963.1	1975.7
10°	1447.4	1410.6	1388.7	1449.7	1457.5	1515.3	1491.9	1473.1	1507.5	1509.1	1541.9
12.5°	1205.1	1126.2	1073.8	1091.0	1109.7	1134.7	1138.7	1176.2	1201.2	1224.6	1244.2
15°	944.8	917.5	869.8	846.4	872.9	883.1	907.3	938.6	965.2	972.2	998.8
17.5°	725.2	729.9	722.1	708.0	724.5	732.3	733.8	734.6	741.7	737.0	776.0
20°	583.8	600.2	619.7	622.9	628.3	632.2	625.2	598.6	599.4	615.8	628.3
22.5°	528.3	531.4	553.3	560.3	577.5	570.5	550.2	537.7	536.1	540.0	546.3
25°	484.5	489.2	504.9	515.8	529.1	516.6	501.7	490.0	488.4	492.4	498.6
27.5°	445.5	452.5	466.6	477.5	490.0	478.3	464.2	454.1	453.3	452.5	456.4
30°	414.2	422.0	432.2	444.7	453.3	443.1	429.8	424.4	423.6	422.0	423.6
32.5°	382.9	395.4	405.6	411.9	420.5	412.6	402.5	399.4	393.9	389.2	386.8
35°	347.8	361.1	376.7	384.5	393.1	385.3	378.2	365.0	355.6	354.8	356.4
37.5°	327.5	332.9	345.4	358.7	367.3	363.4	350.1	336.8	334.5	334.5	336.0
40°	309.5	311.8	317.3	334.5	350.1	338.4	322.0	318.1	318.1	317.3	318.1
42.5°	291.5	293.8	293.8	307.1	332.1	313.4	300.9	300.9	300.9	301.7	304.0
45°	275.1	275.9	275.1	284.5	307.9	292.3	283.7	286.0	287.6	289.2	290.7
47.5°	261.0	261.8	261.0	268.8	280.6	274.3	269.6	272.7	275.9	278.2	279.8
50°	248.5	247.7	249.3	254.0	259.5	261.0	257.9	262.6	264.1	267.3	271.2
52.5°	237.6	236.8	238.4	240.7	248.5	248.5	248.5	252.4	255.6	258.7	264.1
55°	225.1	225.9	228.2	231.3	241.5	239.9	240.7	243.8	247.0	251.6	254.8
57.5°	213.4	214.9	218.0	222.7	232.9	232.1	232.9	234.5	238.4	240.7	243.8
60°	200.1	203.2	207.1	210.2	220.4	219.6	223.5	226.6	229.0	229.0	230.5
62.5°	186.8	191.5	195.4	197.7	208.7	209.4	214.9	217.3	218.8	217.3	219.6
65°	173.5	180.5	182.1	185.2	196.2	196.9	203.2	208.7	207.1	205.5	209.4
67.5°	160.2	168.8	168.0	171.9	182.9	184.4	189.9	199.3	196.2	194.6	197.7
70°	145.4	151.6	152.4	154.7	169.6	167.2	175.8	184.4	182.1	182.9	182.9
72.5°	128.9	134.4	134.4	139.1	154.7	150.8	157.9	167.2	167.2	166.5	166.5
75°	109.4	112.5	115.7	122.7	139.1	134.4	139.1	147.7	149.3	147.7	147.7
77.5°	88.3	93.0	94.6	103.9	115.7	114.9	119.6	123.5	126.6	125.0	125.0
80°	62.5	67.2	73.5	83.6	90.7	93.0	95.3	98.5	100.0	100.0	101.6
82.5°	35.2	42.2	47.7	57.8	61.0	72.7	71.9	74.2	71.9	63.3	70.3
85°	7.8	14.8	21.1	26.6	30.5	42.2	44.5	50.0	41.4	38.3	38.3
87.5°	0.0	0.0	0.0	0.0	0.0	6.3	12.5	17.2	14.8	12.5	12.5
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3807.5	3807.5	3807.5	3807.5	3807.5	3807.5	3807.5	3807.5	3807.5	3807.5
2.5°	3323.0	3391.0	3473.0	3614.5	3713.7	3820.8	3928.6	4043.5	4074.0	4105.3
5°	2693.9	2827.5	2900.2	3090.1	3289.4	3542.6	3749.7	3976.3	4070.9	4092.8
7.5°	2040.5	2131.2	2321.9	2514.1	2761.1	3026.8	3344.1	3697.3	3807.5	3853.6
10°	1617.7	1741.2	1908.4	2114.8	2331.2	2617.3	2975.2	3387.8	3544.1	3569.9
12.5°	1377.0	1514.6	1696.7	1914.7	2119.4	2335.1	2696.2	3122.1	3289.4	3344.9
15°	1101.1	1267.6	1477.8	1707.6	1930.3	2166.3	2532.1	3012.7	3205.7	3270.6
17.5°	865.1	999.5	1227.0	1476.3	1740.4	2039.0	2497.7	3065.1	3302.7	3362.8
20°	661.9	758.1	949.5	1212.9	1522.4	1913.1	2506.3	3262.8	3547.3	3629.3
22.5°	572.1	621.3	737.7	988.6	1334.8	1803.7	2541.5	3534.0	3877.1	4013.8
25°	518.1	543.9	609.6	773.7	1155.9	1697.4	2622.0	3898.9	4338.2	4428.8
27.5°	472.0	490.8	531.4	649.4	993.3	1599.0	2715.7	4303.8	4768.8	4904.0
30°	428.3	453.3	491.6	576.8	889.4	1509.1	2833.7	4632.0	5131.4	5257.2
32.5°	394.7	419.7	454.8	526.0	801.0	1414.5	2904.1	4920.4	5427.6	5534.6
35°	367.3	388.4	425.1	485.3	733.8	1342.6	2890.0	5149.4	5714.4	5823.8
37.5°	347.8	365.7	402.5	447.0	683.0	1267.6	2883.0	5451.8	6063.7	6190.3
40°	329.8	348.6	382.2	422.0	632.2	1179.3	2886.9	5751.9	6435.7	6562.3
42.5°	315.7	336.8	364.2	415.0	579.9	1108.2	2886.9	6012.9	6759.3	6881.2
45°	304.0	326.7	353.2	414.2	538.5	1054.3	2867.4	6237.2	7017.2	7121.1
47.5°	293.8	318.9	357.1	400.1	528.3	1015.2	2850.2	6417.0	7227.4	7325.1
50°	286.8	316.5	379.8	383.7	531.4	1003.5	2933.0	6643.6	7412.6	7497.0
52.5°	281.3	317.3	379.0	359.5	526.0	1011.3	3105.7	6997.6	7669.7	7676.0
55°	270.4	316.5	359.5	332.1	503.3	1024.6	3327.7	7511.9	8072.2	8076.9
57.5°	259.5	307.9	333.7	308.7	457.2	1024.6	3594.9	7998.7	8557.5	8561.4
60°	248.5	320.4	293.1	288.4	397.0	1005.8	3877.1	8212.9	8709.9	8749.8
62.5°	237.6	322.8	261.8	270.4	353.2	960.5	4087.3	7976.1	8503.6	8560.6
65°	225.1	260.2	241.5	251.6	330.6	884.7	4020.9	7542.3	8116.0	8184.0
67.5°	210.2	220.4	219.6	232.1	322.8	772.9	3670.7	6993.7	7698.6	7694.7
70°	192.3	197.7	200.1	213.4	307.9	686.2	3058.8	6281.8	7141.4	7228.9
72.5°	173.5	178.2	180.5	192.3	293.1	636.9	2374.2	5301.0	6185.6	6322.4
75°	153.2	156.3	159.4	169.6	277.4	564.2	1691.2	4046.6	4737.5	4952.4
77.5°	132.1	132.1	136.0	146.1	233.7	465.8	1134.7	2838.4	3209.7	3429.3
80°	107.1	107.8	106.3	117.2	171.9	318.9	644.7	1895.9	2135.9	2178.1
82.5°	82.1	79.7	80.5	86.0	128.2	217.3	343.9	1177.7	1200.4	1177.0
85°	51.6	51.6	50.0	56.3	82.1	113.3	187.6	721.3	563.5	536.1
87.5°	21.1	17.2	19.5	22.7	39.1	46.1	73.5	148.5	57.1	52.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)