

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: P529173

Luminaire Tested: **GALN-SA4B-740-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-740-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12444 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

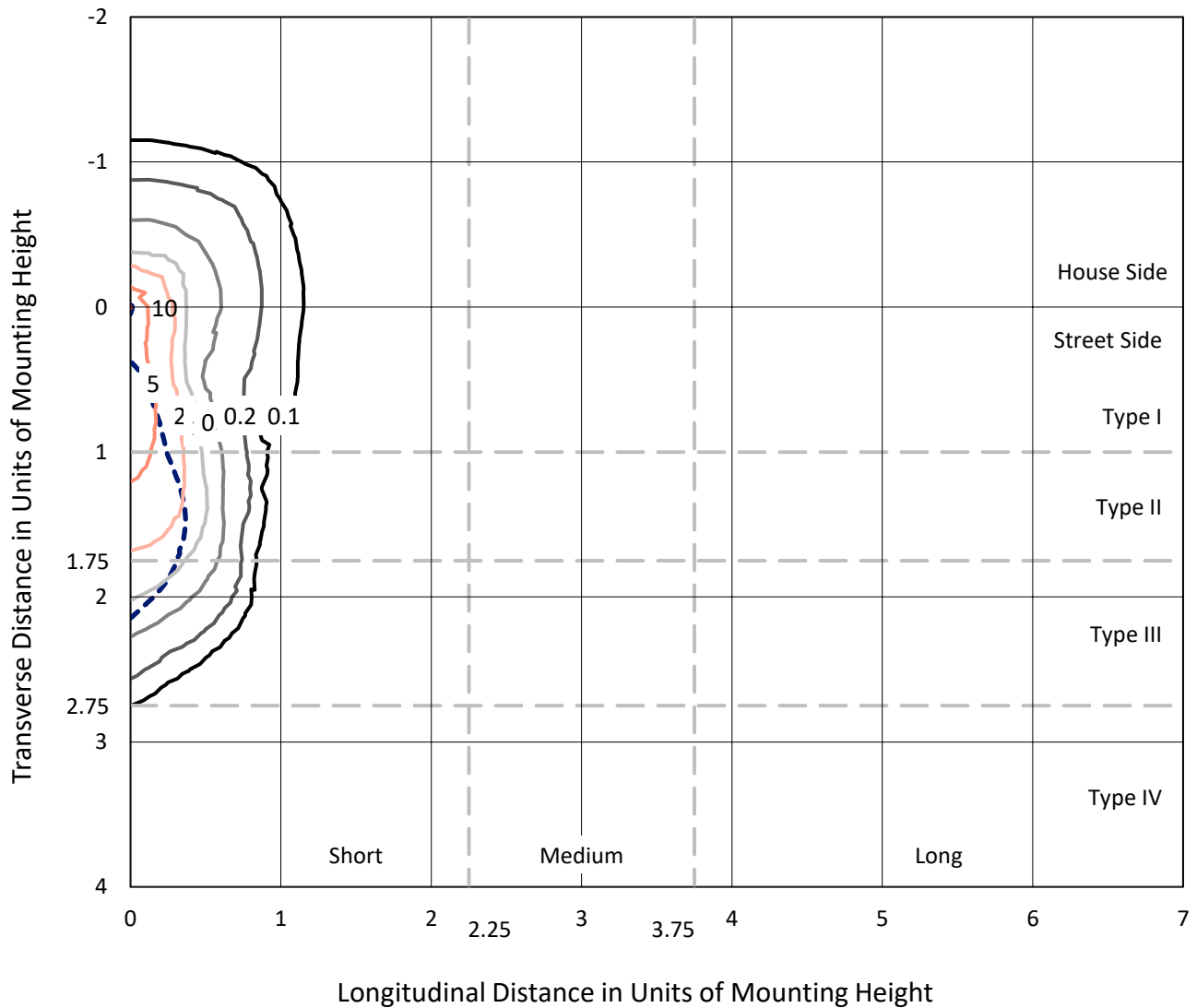
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

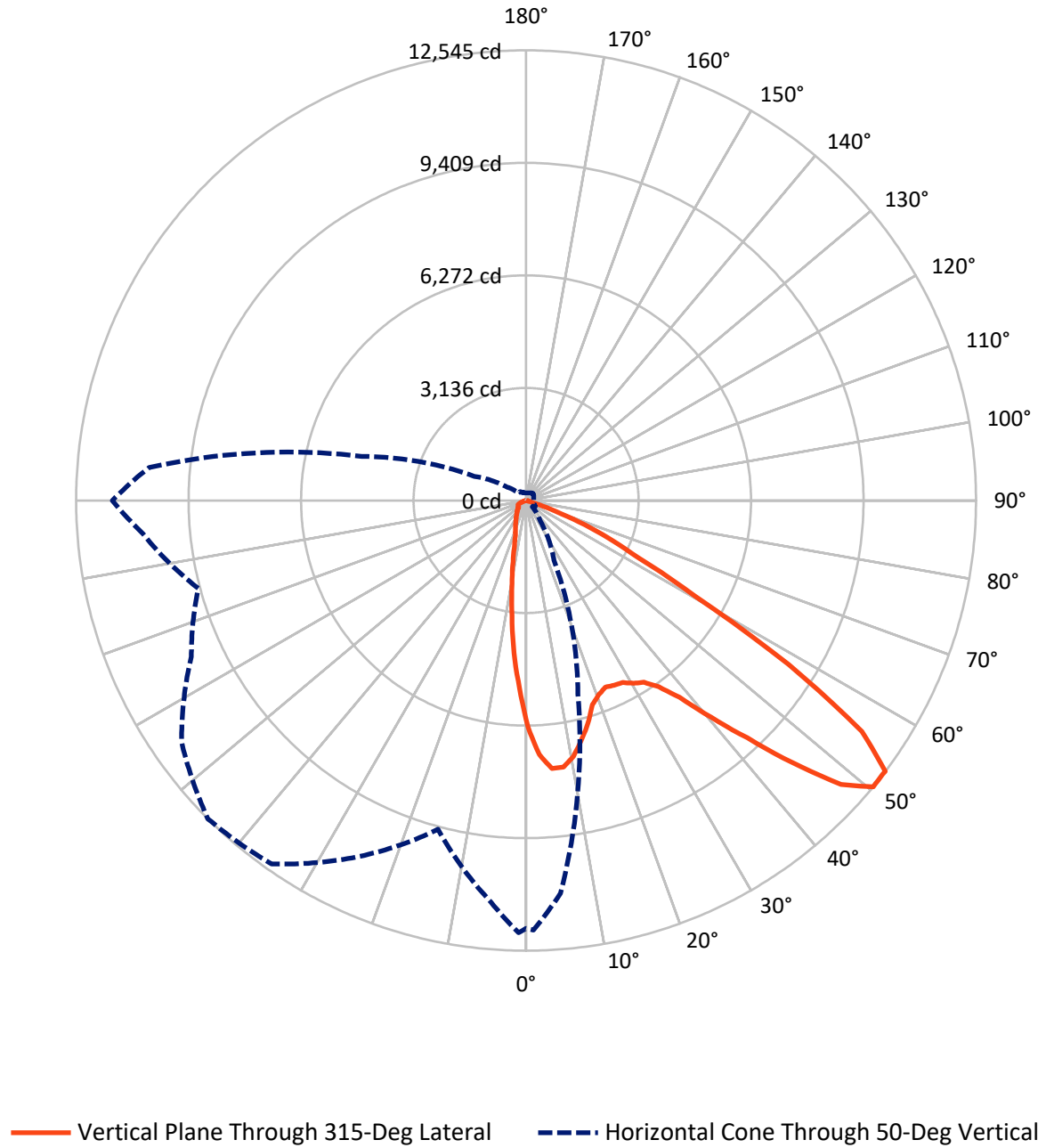
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2492.5	0.0	2492.5
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	9951.5	0.0	9951.5
	% Fixture	80.0	0.0	80.0
Total	Lumens	12444.0	0.0	12444.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.0	3.7
10°-20°	914.2	7.3
20°-30°	1373.4	11.0
30°-40°	2061.4	16.6
40°-50°	2897.2	23.3
50°-60°	3125.1	25.1
60°-70°	1451.0	11.7
70°-80°	136.5	1.1
80°-90°	25.2	0.2
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°	12444.0	100.0
0°-180°	12444.0	100.0

Coefficient of Utilization



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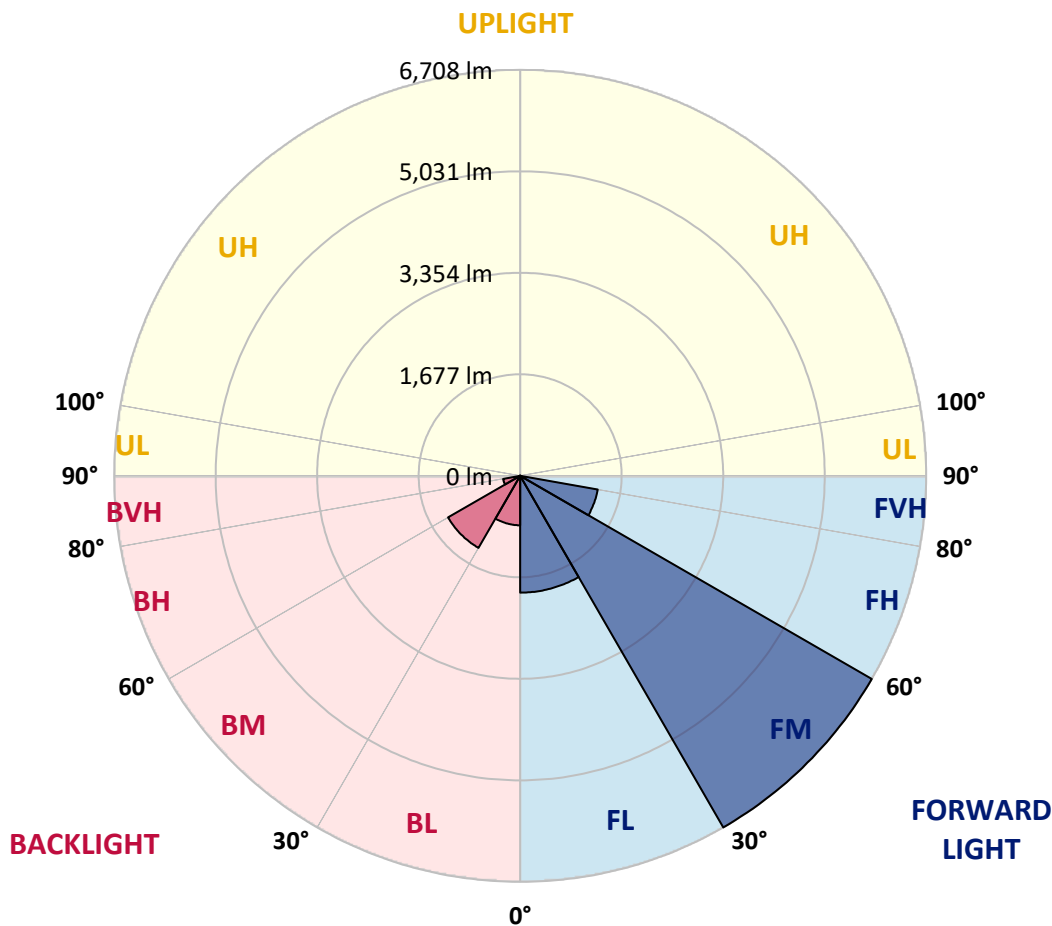
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1930.6	15.5			
FM (30°-60°)	6708.2	53.9			
FH (60°-80°)	1301.3	10.5			G1/1800
FVH (80°-90°)	11.3	0.1			G1/100
BL (0°-30°)	817.0	6.6	B2/1000		
BM (30°-60°)	1375.5	11.1	B2/2500		
BH (60°-80°)	286.2	2.3	B1/500		G1/500
BVH (80°-90°)	13.8	0.1			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6310.7	6310.7	6310.7	6310.7	6310.7	6310.7	6310.7	6310.7	6310.7	6310.7	6310.7
2.5°	6560.0	6458.8	6330.4	6224.3	6066.2	5747.8	5661.3	5557.6	5471.2	5355.2	5192.2
5°	5965.0	5932.9	5873.7	5473.7	5184.8	4799.7	4483.6	4350.3	4175.0	4031.8	3928.1
7.5°	5510.7	5382.3	5194.7	4792.3	4330.6	3918.2	3567.7	3362.7	3130.6	3051.6	2910.9
10°	5024.3	5054.0	4777.4	4212.1	3654.1	3320.8	3103.5	2906.0	2696.1	2557.8	2357.9
12.5°	4868.8	4772.5	4560.2	3861.5	3385.0	3073.9	2809.7	2565.3	2343.0	2120.8	1928.3
15°	4970.0	4821.9	4525.6	3787.4	3177.6	2789.9	2459.1	2128.2	1923.3	1639.4	1439.4
17.5°	5333.0	5214.5	4817.0	3866.4	3071.4	2518.3	2027.0	1686.3	1372.7	1116.0	1014.7
20°	5937.9	5770.0	5271.2	3967.6	2913.4	2190.0	1644.3	1224.6	928.3	819.7	762.9
22.5°	6530.4	6439.1	5809.5	4162.7	2772.6	1898.6	1234.5	824.6	693.8	674.0	637.0
25°	7658.7	7384.7	6631.6	4515.7	2664.0	1624.6	930.8	664.2	587.6	572.8	577.7
27.5°	8330.3	8100.7	7392.1	4750.3	2543.0	1414.7	787.6	609.8	558.0	525.9	513.5
30°	8974.7	8708.0	7769.8	4888.6	2283.8	1192.5	698.7	585.1	572.8	525.9	511.1
32.5°	9471.0	9209.2	8315.5	5095.9	2177.6	1049.3	575.3	456.8	424.7	419.7	464.2
35°	10231.4	9952.4	8782.1	5209.5	2096.2	975.2	498.7	407.4	370.3	355.5	358.0
37.5°	10940.0	10749.9	9214.2	5254.0	2009.7	953.0	446.9	365.4	333.3	323.4	321.0
40°	11532.5	11107.9	9624.0	5300.9	1972.7	911.0	414.8	333.3	311.1	296.3	296.3
42.5°	11804.1	11372.1	10083.3	5273.7	1962.8	844.4	414.8	306.2	288.9	274.1	271.6
45°	11744.9	11569.6	10288.2	5261.4	1962.8	777.7	377.8	298.7	274.1	254.3	249.4
47.5°	11897.9	11668.3	10545.0	5313.2	1923.3	730.8	318.5	313.6	259.2	234.6	229.6
50°	11925.1	11969.5	10991.8	5582.3	1836.9	671.6	249.4	308.6	249.4	212.3	207.4
52°	12102.9	11826.3	11127.6	5725.5	1745.6	627.1	209.9	264.2	239.5	197.5	192.6
52.5°	11858.4	12038.7	11159.7	5777.4	1755.4	597.5	202.5	259.2	234.6	197.5	185.2
55°	11584.4	11757.2	11028.9	5888.5	1609.8	469.1	158.0	187.6	212.3	172.8	165.4
57.5°	10068.4	10243.7	9584.5	5392.2	1311.0	330.8	130.9	140.7	187.6	160.5	153.1
60°	8950.0	8824.1	8043.9	4498.5	930.8	185.2	103.7	108.6	204.9	148.1	145.7
62.5°	8179.7	7910.6	6723.0	3473.8	567.9	123.4	81.5	83.9	158.0	138.3	138.3
65°	6051.4	5750.2	4466.4	2101.1	279.0	86.4	61.7	66.7	98.8	118.5	118.5
67.5°	3454.1	3338.0	2157.9	948.1	116.0	54.3	46.9	51.8	76.5	96.3	91.4
70°	1587.5	1424.6	829.6	200.0	54.3	37.0	37.0	42.0	61.7	71.6	66.7
72.5°	464.2	439.5	202.5	32.1	22.2	22.2	24.7	32.1	46.9	54.3	49.4
75°	34.6	22.2	14.8	9.9	9.9	14.8	19.8	32.1	46.9	51.8	42.0
77.5°	2.5	4.9	2.5	2.5	7.4	14.8	22.2	39.5	61.7	64.2	46.9
80°	2.5	2.5	0.0	2.5	7.4	14.8	24.7	44.4	69.1	74.1	39.5
82.5°	0.0	0.0	0.0	2.5	9.9	19.8	29.6	46.9	64.2	79.0	42.0
85°	0.0	0.0	0.0	2.5	14.8	27.2	34.6	12.3	7.4	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°	6310.7	6310.7	6310.7	6310.7	6310.7	6310.7	6310.7	6310.7	6310.7	6310.7	6310.7
2.5°	5308.3	5244.1	5219.4	5241.6	5234.2	5226.8	5362.6	5333.0	5328.0	5372.5	5362.6
5°	3984.9	3871.3	4182.4	4056.5	4187.4	4266.4	4281.2	4288.6	4379.9	4283.7	4409.6
7.5°	2839.3	2868.9	2866.5	2950.4	3101.0	3234.3	3313.4	3251.6	3246.7	3234.3	3180.0
10°	2269.0	2217.1	2207.3	2187.5	2234.4	2348.0	2444.3	2367.7	2313.4	2387.5	2365.3
12.5°	1854.2	1782.6	1743.1	1664.1	1666.6	1743.1	1743.1	1743.1	1797.4	1839.4	1871.5
15°	1422.1	1362.9	1362.9	1283.9	1266.6	1269.0	1308.6	1313.5	1399.9	1424.6	1436.9
17.5°	995.0	962.9	999.9	1032.0	1012.3	1017.2	1032.0	1037.0	1049.3	1039.4	1064.1
20°	765.4	760.4	770.3	827.1	869.1	893.8	876.5	851.8	837.0	802.4	802.4
22.5°	649.3	659.2	676.5	723.4	777.7	792.5	772.8	716.0	671.6	666.6	669.1
25°	577.7	587.6	614.8	644.4	674.0	698.7	679.0	637.0	612.3	590.1	590.1
27.5°	533.3	538.2	553.0	575.3	600.0	619.7	612.3	590.1	562.9	553.0	530.8
30°	498.7	506.1	523.4	528.4	550.6	560.5	548.1	543.2	525.9	513.5	506.1
32.5°	481.4	479.0	491.3	496.3	498.7	506.1	491.3	498.7	496.3	476.5	469.1
35°	362.9	382.7	414.8	441.9	449.4	459.2	456.8	446.9	419.7	397.5	370.3
37.5°	325.9	338.2	355.5	377.8	407.4	419.7	414.8	390.1	358.0	343.2	338.2
40°	301.2	308.6	323.4	338.2	367.9	390.1	372.8	350.6	325.9	313.6	306.2
42.5°	279.0	281.5	288.9	303.7	325.9	360.5	330.8	301.2	291.3	283.9	279.0
45°	254.3	254.3	264.2	271.6	296.3	328.4	298.7	271.6	266.6	261.7	259.2
47.5°	234.6	237.0	242.0	251.8	271.6	293.8	274.1	251.8	239.5	237.0	232.1
50°	209.9	212.3	222.2	232.1	256.8	269.1	256.8	232.1	219.7	212.3	212.3
52°	190.1	197.5	207.4	227.1	244.4	264.2	249.4	222.2	207.4	200.0	195.0
52.5°	187.6	192.6	202.5	224.7	244.4	261.7	246.9	219.7	202.5	197.5	192.6
55°	167.9	175.3	192.6	219.7	242.0	261.7	242.0	217.3	192.6	180.2	175.3
57.5°	160.5	165.4	187.6	222.2	239.5	261.7	242.0	217.3	192.6	170.4	165.4
60°	153.1	163.0	187.6	214.8	237.0	264.2	244.4	214.8	187.6	160.5	160.5
62.5°	145.7	153.1	185.2	209.9	227.1	254.3	234.6	209.9	180.2	153.1	150.6
65°	125.9	138.3	163.0	175.3	195.0	219.7	200.0	182.7	158.0	135.8	133.3
67.5°	96.3	101.2	121.0	135.8	148.1	170.4	160.5	138.3	121.0	103.7	103.7
70°	66.7	71.6	86.4	93.8	106.2	118.5	111.1	93.8	81.5	71.6	69.1
72.5°	46.9	49.4	54.3	59.3	64.2	69.1	66.7	54.3	46.9	44.4	42.0
75°	37.0	42.0	44.4	42.0	39.5	37.0	37.0	32.1	27.2	24.7	24.7
77.5°	37.0	39.5	37.0	32.1	27.2	24.7	22.2	19.8	14.8	12.3	14.8
80°	32.1	32.1	32.1	27.2	24.7	22.2	19.8	17.3	14.8	12.3	12.3
82.5°	34.6	34.6	32.1	27.2	27.2	22.2	22.2	19.8	17.3	12.3	12.3
85°	0.0	0.0	0.0	4.9	12.3	22.2	22.2	19.8	17.3	14.8	14.8
87.5°	0.0	0.0	0.0	0.0	2.5	4.9	9.9	12.3	14.8	14.8	14.8
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6310.7	6310.7	6310.7	6310.7	6310.7	6310.7	6310.7	6310.7	6310.7	6310.7	6310.7
2.5°	5451.5	5545.3	5723.1	5900.8	6009.5	6137.8	6369.9	6493.4	6653.9	6732.9	6888.4
5°	4392.3	4614.5	4693.5	4896.0	5113.2	5330.5	5676.2	6056.4	6372.4	6589.7	6871.1
7.5°	3204.7	3256.6	3562.7	3698.5	4054.0	4449.1	4920.6	5399.6	5799.6	6155.1	6369.9
10°	2402.3	2592.4	2785.0	3044.2	3330.6	3738.0	4189.8	4718.2	5236.7	5592.2	5863.8
12.5°	1930.7	2081.3	2338.1	2617.1	2970.2	3239.3	3693.6	4217.0	4888.6	5236.7	5594.7
15°	1461.6	1654.2	1945.5	2234.4	2607.2	2891.2	3350.4	4009.6	4873.7	5352.7	5661.3
17.5°	1083.9	1214.7	1476.4	1799.9	2180.1	2580.1	3199.8	3987.4	5039.2	5609.5	5928.0
20°	829.6	874.0	1039.4	1328.3	1740.6	2264.0	2955.4	4083.7	5528.0	6234.1	6557.6
22.5°	671.6	691.3	755.5	955.5	1355.5	1987.5	2839.3	4150.3	6078.6	6982.2	7414.3
25°	585.1	580.2	622.2	708.6	1059.2	1728.3	2691.2	4402.2	6752.6	7861.2	8248.8
27.5°	533.3	533.3	553.0	614.8	879.0	1560.4	2597.4	4582.4	7431.6	8634.0	8843.8
30°	506.1	511.1	567.9	587.6	730.8	1360.4	2441.8	4765.1	8080.9	9127.8	9416.6
32.5°	469.1	449.4	437.0	486.4	614.8	1180.2	2286.3	4841.6	8606.8	9732.7	9979.6
35°	360.5	350.6	365.4	402.4	528.4	1027.1	2113.4	4928.1	9211.7	10433.8	10483.2
37.5°	325.9	323.4	333.3	365.4	444.4	893.8	1990.0	4905.8	9673.4	11014.1	10880.7
40°	301.2	301.2	308.6	335.8	397.5	799.9	1861.6	4886.1	10120.3	11665.9	11275.8
42.5°	281.5	281.5	293.8	311.1	377.8	738.2	1765.3	4858.9	10495.6	12065.8	11507.8
45°	254.3	261.7	281.5	298.7	382.7	696.2	1693.7	4755.2	10624.0	12060.9	11396.7
47.5°	234.6	244.4	264.2	288.9	345.7	683.9	1644.3	4663.9	10579.5	11764.6	11048.6
50°	212.3	224.7	251.8	293.8	293.8	659.2	1592.5	4745.4	10547.4	11535.0	10715.3
52°	197.5	207.4	242.0	286.4	256.8	607.4	1560.4	4903.4	10678.3	11505.4	10567.2
52.5°	195.0	202.5	234.6	281.5	244.4	597.5	1538.2	4940.4	10720.2	11431.3	10668.4
55°	172.8	182.7	214.8	219.7	200.0	491.3	1466.6	5024.3	10512.9	11285.6	10572.1
57.5°	163.0	167.9	190.1	180.2	172.8	370.3	1261.6	4893.5	9337.6	10024.0	9836.4
60°	150.6	155.5	177.8	140.7	145.7	259.2	948.1	4249.1	7498.2	8352.5	8690.8
62.5°	145.7	143.2	167.9	113.6	123.4	187.6	669.1	3454.1	5777.4	6876.1	7461.2
65°	128.4	125.9	121.0	96.3	106.2	145.7	400.0	2254.2	4071.3	5202.1	5523.1
67.5°	98.8	103.7	88.9	76.5	88.9	113.6	222.2	1009.8	2135.7	3120.8	3380.0
70°	69.1	74.1	71.6	66.7	79.0	93.8	128.4	345.7	883.9	1639.4	1807.3
72.5°	42.0	51.8	54.3	56.8	69.1	81.5	91.4	111.1	234.6	580.2	720.9
75°	24.7	34.6	42.0	49.4	56.8	69.1	76.5	79.0	81.5	108.6	175.3
77.5°	17.3	24.7	37.0	46.9	56.8	69.1	81.5	86.4	81.5	76.5	81.5
80°	14.8	24.7	34.6	44.4	59.3	71.6	81.5	81.5	79.0	69.1	74.1
82.5°	14.8	24.7	37.0	46.9	56.8	69.1	79.0	81.5	74.1	69.1	71.6
85°	17.3	27.2	39.5	49.4	61.7	56.8	51.8	42.0	39.5	32.1	34.6
87.5°	17.3	24.7	24.7	27.2	29.6	29.6	29.6	27.2	22.2	19.8	19.8
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°	6310.7	6310.7	6310.7	6310.7	6310.7	6310.7	6310.7	6310.7	6310.7	6310.7
2.5°	6895.8	7093.3	7085.9	7090.9	7061.2	6861.3	6765.0	6520.5	6589.7	6560.0
5°	7160.0	7355.0	7522.9	7503.2	7276.0	7004.5	6602.0	6221.8	6118.1	5965.0
7.5°	6895.8	7364.9	7520.5	7498.2	7162.5	6814.3	6172.4	5792.2	5612.0	5510.7
10°	6476.1	7019.3	7211.8	7251.4	7024.2	6495.8	5905.8	5295.9	5199.6	5024.3
12.5°	6236.6	6631.6	6750.2	6856.3	6777.3	6382.3	5703.3	5118.2	4984.8	4868.8
15°	6041.6	6276.1	6325.5	6446.5	6493.4	6281.0	5809.5	5310.7	4982.4	4970.0
17.5°	6221.8	6125.5	5945.3	5982.3	6130.4	6283.5	6083.5	5691.0	5372.5	5333.0
20°	6520.5	6095.9	5688.5	5779.8	5903.3	6372.4	6498.3	6221.8	6039.1	5937.9
22.5°	6863.7	6147.7	5607.0	5651.5	5886.0	6572.4	7169.9	7016.8	6676.1	6530.4
25°	7498.2	6290.9	5671.2	5700.8	6021.8	6851.4	7777.2	7890.8	7688.4	7658.7
27.5°	8118.0	6661.3	5811.9	5745.3	6090.9	7123.0	8145.1	8755.0	8399.4	8330.3
30°	8434.0	6962.5	6021.8	5908.2	6377.3	7288.4	8367.3	9317.9	9006.8	8974.7
32.5°	8917.9	7236.5	6184.8	6039.1	6537.8	7493.3	8782.1	9932.6	9631.4	9471.0
35°	9120.4	7535.3	6542.8	6372.4	6997.0	7779.7	8994.4	10480.8	10386.9	10231.4
37.5°	9510.5	7856.2	6965.0	6955.1	7552.6	8152.5	9377.1	11226.4	11209.1	10940.0
40°	9542.6	8206.8	7631.6	7942.7	8411.8	8801.9	9712.9	11433.8	11715.2	11532.5
42.5°	9591.9	8821.6	8784.6	9041.4	9443.8	9359.8	9725.3	11483.2	11912.8	11804.1
45°	9614.2	9436.4	9957.3	10431.4	10599.3	10090.7	9609.2	11389.3	12016.5	11744.9
47.5°	9436.4	9964.7	10905.4	11821.4	11870.8	10540.0	9559.8	11293.0	12078.2	11897.9
50°	9461.1	10295.6	11725.1	12544.8	12364.6	10937.5	9483.3	11233.8	12046.1	11925.1
52°	9401.8	10303.0	11841.2	12530.0	12404.1	10717.8	9352.4	11006.6	12016.5	12102.9
52.5°	9468.5	10258.6	11720.2	12539.9	12376.9	10826.4	9335.2	11132.6	12033.7	11858.4
55°	9238.9	9730.2	11011.6	11359.7	11335.0	9826.5	8804.3	10715.3	11581.9	11584.4
57.5°	8350.0	8434.0	8636.4	8629.0	8515.5	7725.4	7530.3	9853.6	10325.2	10068.4
60°	7357.5	6174.9	5629.2	5407.0	5281.1	5152.7	6661.3	9014.2	9058.6	8950.0
62.5°	6357.6	4281.2	3555.3	3493.6	3523.2	3992.3	6439.1	8680.9	8414.2	8179.7
65°	5130.5	3120.8	2582.5	2501.1	2789.9	3296.1	5212.0	6656.3	6246.5	6051.4
67.5°	3222.0	2276.4	1745.6	1592.5	1940.6	2269.0	3424.5	4182.4	3723.2	3454.1
70°	1911.0	1271.5	790.1	708.6	797.5	1209.8	1918.4	2086.3	1725.8	1587.5
72.5°	753.0	466.6	219.7	187.6	195.0	424.7	706.1	688.8	521.0	464.2
75°	202.5	140.7	76.5	61.7	51.8	79.0	113.6	74.1	27.2	34.6
77.5°	93.8	83.9	66.7	51.8	39.5	29.6	14.8	4.9	4.9	2.5
80°	81.5	71.6	61.7	51.8	39.5	24.7	12.3	2.5	2.5	2.5
82.5°	76.5	66.7	56.8	46.9	37.0	24.7	12.3	2.5	0.0	0.0
85°	32.1	42.0	46.9	44.4	39.5	24.7	12.3	2.5	0.0	0.0
87.5°	17.3	14.8	12.3	9.9	7.4	4.9	4.9	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

(END OF REPORT)