

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: P527299

Luminaire Tested: **GALN-SA2B-740-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527299  
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-SA2B-740-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 800mA 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: 6326 lumens  
Efficiency: N/A  
Efficacy: 77.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

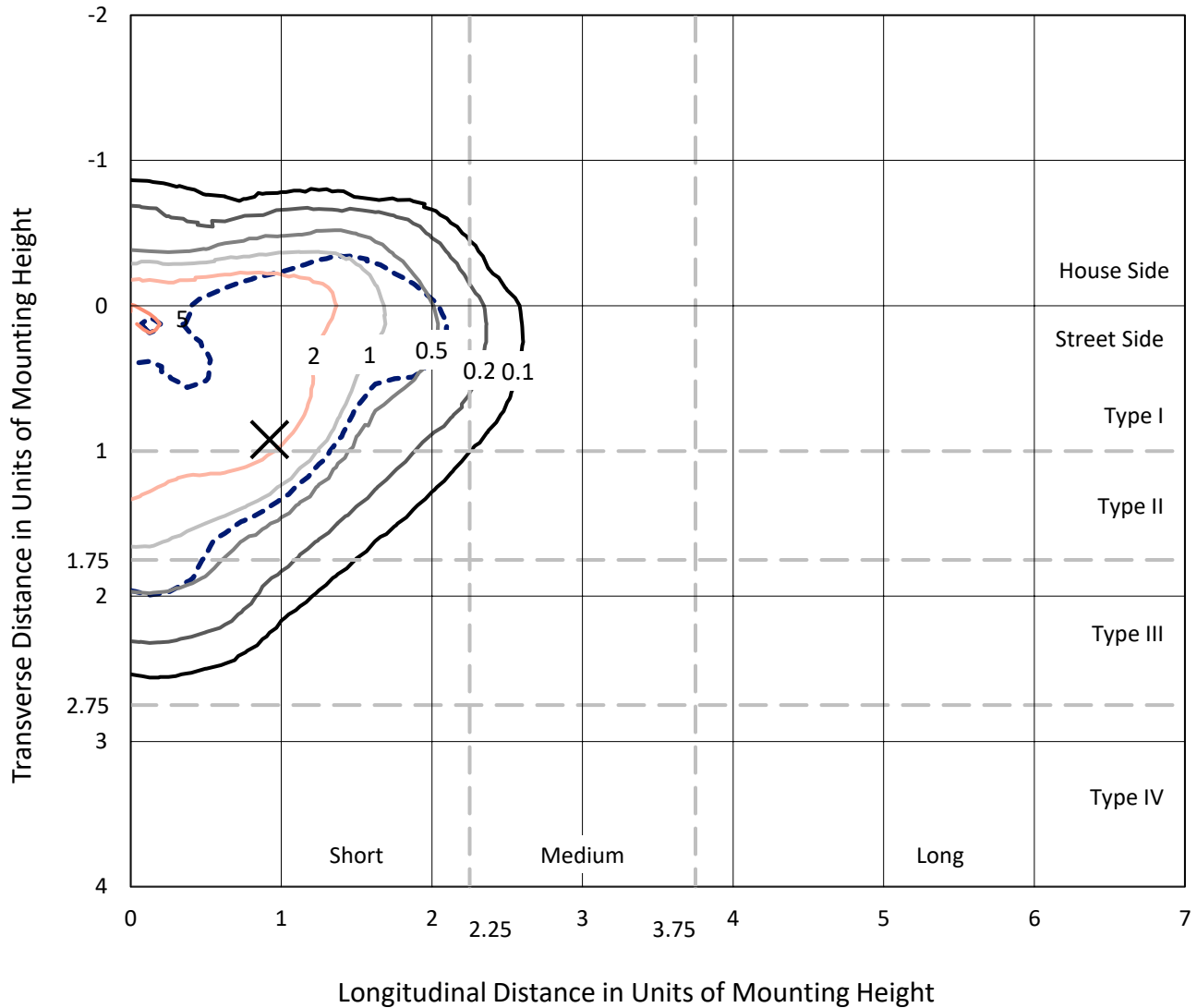
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

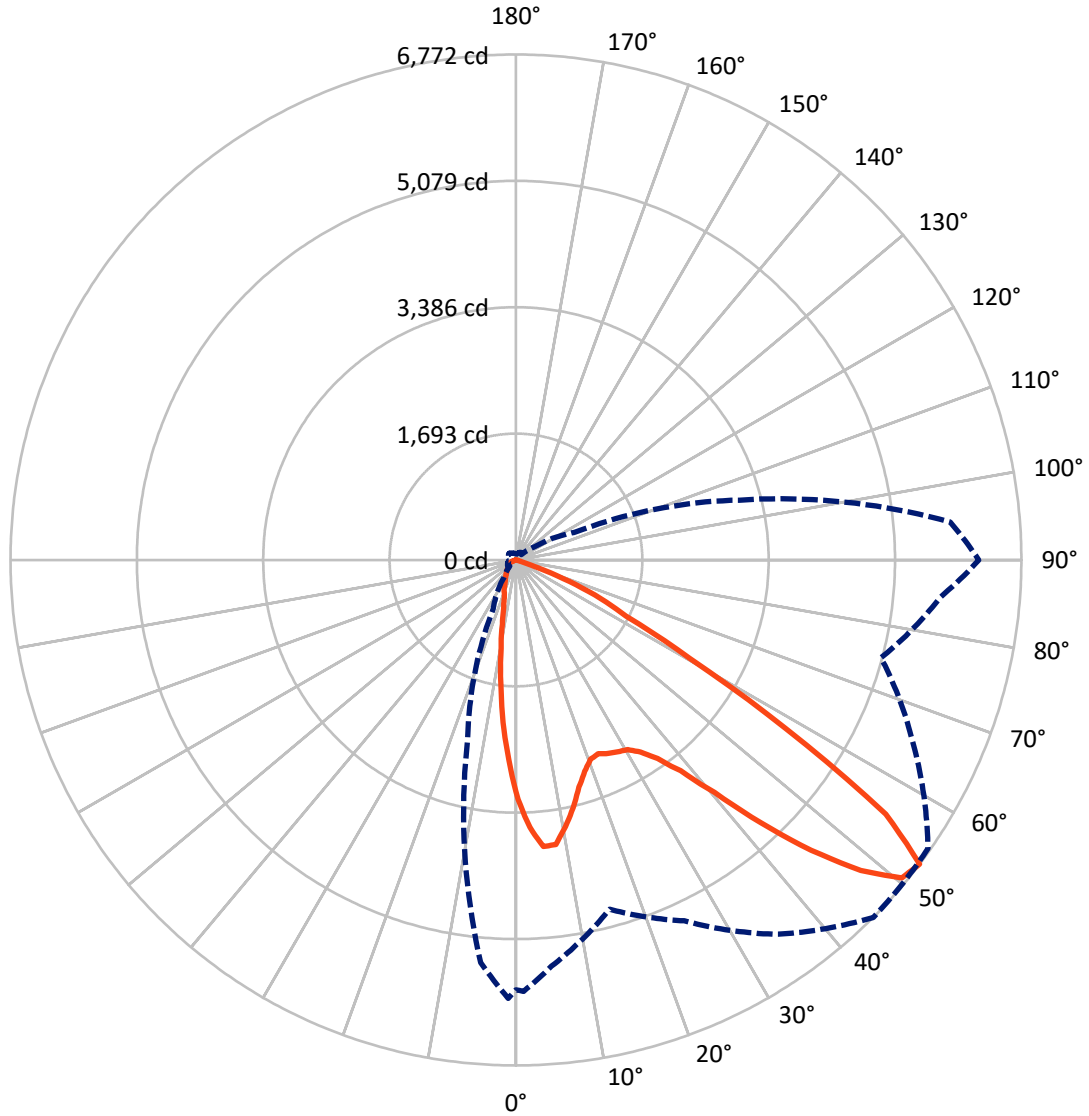
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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
<b>House Side</b>	Lumens	1283.9	0.0	1283.9
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	5042.1	0.0	5042.1
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	6326.0	0.0	6326.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.9	3.7
10°-20°	461.5	7.3
20°-30°	702.4	11.1
30°-40°	1049.8	16.6
40°-50°	1495.0	23.6
50°-60°	1607.0	25.4
60°-70°	712.1	11.3
70°-80°	57.6	0.9
80°-90°	6.7	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°	6326.0	100.0
0°-180°	6326.0	100.0

**Coefficient of Utilization**

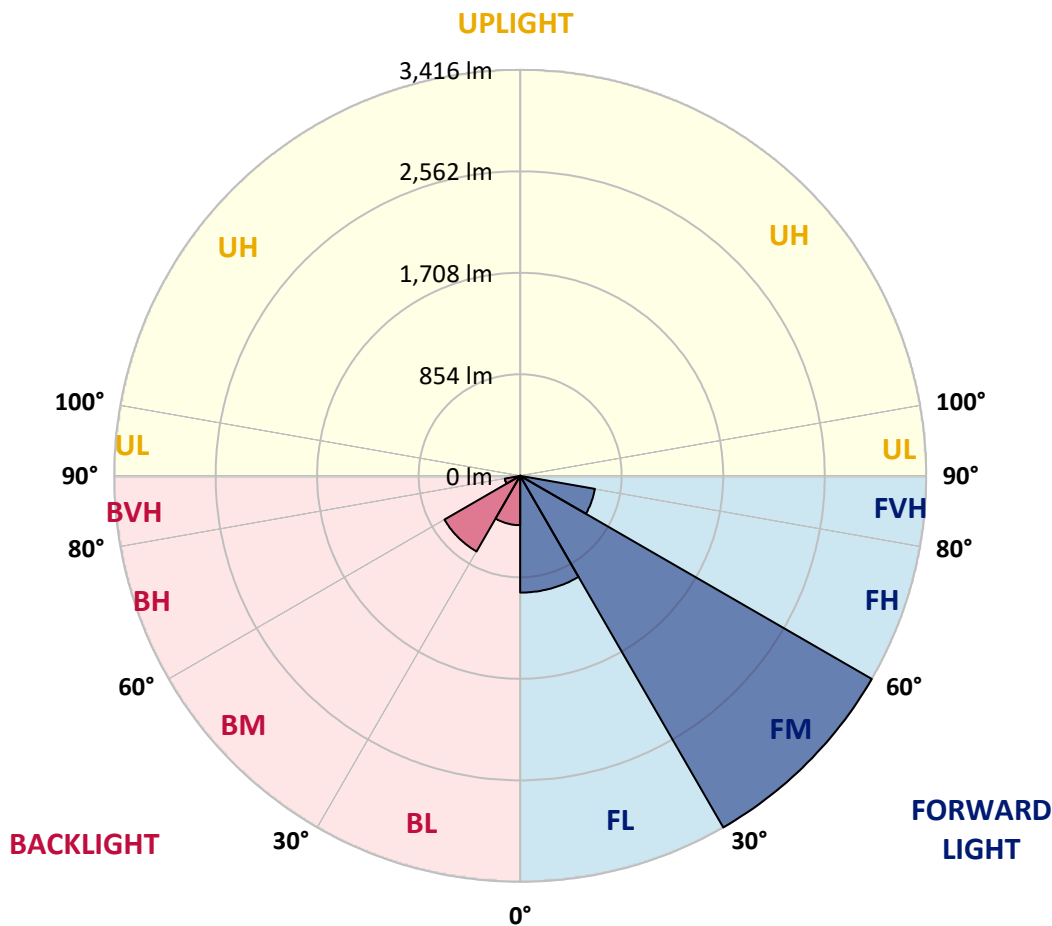


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	982.6	15.5			
FM (30°-60°)	3416.2	54.0			
FH (60°-80°)	638.4	10.1			G0/660
FVH (80°-90°)	5.0	0.1			G0/10
BL (0°-30°)	415.3	6.6	B1/500		
BM (30°-60°)	735.5	11.6	B1/1000		
BH (60°-80°)	131.4	2.1	B1/500		G1/500
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6
2.5°	3394.2	3404.2	3458.9	3527.3	3563.4	3645.5	3588.3	3603.2	3572.1	3462.6	3376.8
5°	3290.9	3289.7	3359.4	3528.6	3689.1	3852.1	3857.1	3770.0	3616.9	3449.0	3208.8
7.5°	2979.9	3028.4	3100.6	3370.6	3667.9	3789.9	3848.3	3746.3	3511.2	3271.0	3011.0
10°	2744.7	2769.6	2891.5	3217.5	3435.3	3598.3	3634.3	3575.9	3395.5	3095.6	2804.5
12.5°	2609.1	2621.6	2764.6	3038.4	3268.5	3389.2	3406.6	3434.0	3304.6	3023.4	2673.8
15°	2610.4	2620.3	2813.2	3042.1	3132.9	3100.6	3157.8	3156.6	3212.6	3009.7	2783.3
17.5°	2798.2	2809.4	2983.6	3096.8	3057.0	2981.1	2977.4	3034.6	3152.8	3180.2	2948.8
20°	3121.7	3147.9	3276.0	3269.8	3045.8	2892.8	2850.5	2894.0	3169.0	3324.5	3282.2
22.5°	3557.2	3593.3	3682.9	3511.2	3096.8	2833.1	2819.4	2904.0	3276.0	3646.8	3660.5
25°	4062.3	4123.3	4166.9	3946.6	3278.5	2936.3	2871.6	3017.2	3420.3	3996.4	4142.0
27.5°	4397.0	4460.5	4450.5	4135.8	3400.4	2963.7	2909.0	3044.6	3546.0	4079.8	4393.3
30°	4658.3	4696.9	4766.6	4237.8	3522.4	3040.9	2947.5	3160.3	3587.1	4224.1	4696.9
32.5°	4963.2	4989.3	4994.3	4418.2	3710.2	3137.9	3067.0	3304.6	3768.7	4362.2	4965.6
35°	5270.5	5309.0	5228.2	4640.9	3825.9	3318.3	3266.1	3554.7	3914.3	4505.3	5261.8
37.5°	5603.9	5623.8	5437.2	4733.0	3991.4	3611.9	3583.3	3824.7	4166.9	4764.1	5590.2
40°	5883.9	5902.5	5659.9	4846.2	4165.6	4022.5	4095.9	4339.8	4510.3	4932.1	5754.5
42.5°	6039.4	6082.9	5734.6	4784.0	4515.2	4487.9	4813.9	4899.7	4908.4	4979.3	5901.3
45°	6081.7	6061.8	5611.4	4835.0	4821.3	5253.1	5549.2	5662.4	5304.1	5066.4	5938.6
47.5°	5886.4	5912.5	5429.7	4790.2	5223.2	5832.9	6216.1	6426.3	5598.9	4990.5	5846.5
50°	5728.3	5694.8	5371.3	4757.9	5331.4	6106.6	6697.6	6744.9	5870.2	5083.8	5745.8
52.5°	5759.5	5780.6	5464.6	4843.7	5333.9	6122.8	6772.2	6739.9	5878.9	5062.7	5709.7
55°	5825.4	5732.1	5424.8	4654.6	4976.8	5671.1	6010.8	5961.0	5426.0	4837.5	5621.3
57.5°	5026.6	5170.9	4988.0	4155.7	4084.7	4272.6	4266.4	4419.4	4047.4	4163.1	5117.4
60°	4079.8	4104.7	4173.1	3554.7	2826.8	2762.1	2672.6	2575.5	2723.6	3559.7	4654.6
62.5°	3588.3	3558.4	3802.3	3233.7	1995.7	1671.0	1656.0	1715.8	2101.5	3395.5	4365.9
65°	2607.9	2645.2	2821.9	2509.6	1498.0	1275.3	1252.9	1429.6	1700.8	2721.1	3332.0
67.5°	1592.6	1664.8	1680.9	1547.8	1016.5	807.5	775.1	935.6	1228.0	1760.6	1953.4
70°	735.3	822.4	904.5	844.8	588.5	332.2	313.5	393.2	619.6	1012.8	1036.4
72.5°	222.7	224.0	313.5	327.2	190.4	74.7	65.9	87.1	210.3	334.7	352.1
75°	16.2	17.4	42.3	48.5	36.1	18.7	19.9	23.6	44.8	74.7	56.0
77.5°	1.2	1.2	1.2	6.2	11.2	12.4	16.2	18.7	23.6	27.4	24.9
80°	1.2	0.0	1.2	5.0	8.7	12.4	14.9	17.4	18.7	21.2	18.7
82.5°	0.0	0.0	0.0	3.7	8.7	12.4	13.7	18.7	21.2	24.9	21.2
85°	0.0	0.0	0.0	3.7	8.7	13.7	12.4	6.2	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°	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6
2.5°	3391.7	3343.2	3232.5	3176.5	3044.6	3025.9	2896.5	2875.4	2831.8	2808.2	2751.0
5°	3103.1	3044.6	2864.2	2712.4	2535.7	2412.5	2318.0	2232.1	2182.3	2136.3	2157.5
7.5°	2867.9	2697.4	2497.1	2243.3	2039.3	1907.4	1763.0	1644.8	1575.2	1527.9	1539.1
10°	2621.6	2510.8	2232.1	1947.2	1700.8	1607.5	1494.3	1403.5	1305.2	1220.6	1180.8
12.5°	2544.4	2380.2	2030.6	1740.7	1554.0	1463.2	1333.8	1229.3	1103.6	1000.3	964.3
15°	2558.1	2400.1	1975.8	1666.0	1445.8	1289.0	1134.7	1005.3	867.2	795.1	757.7
17.5°	2780.8	2507.1	2011.9	1587.6	1295.2	1077.5	887.1	722.9	619.6	545.0	528.8
20°	3054.5	2738.5	2089.0	1530.4	1172.0	857.3	648.2	506.4	420.5	408.1	404.4
22.5°	3455.2	3116.7	2254.5	1491.8	1021.5	668.1	444.2	368.3	344.6	342.2	343.4
25°	4015.1	3590.8	2434.9	1459.5	908.3	515.1	363.3	312.3	304.8	301.1	307.3
27.5°	4257.7	3877.0	2530.7	1389.8	805.0	464.1	358.3	309.8	288.7	282.4	286.2
30°	4557.5	4067.3	2681.3	1270.3	653.2	382.0	334.7	337.2	327.2	296.1	286.2
32.5°	4955.7	4305.0	2757.2	1185.7	583.5	316.0	245.1	225.2	251.3	256.3	265.0
35°	5210.8	4546.3	2795.7	1136.0	547.5	270.0	207.8	189.1	182.9	184.1	189.1
37.5°	5684.8	4872.3	2844.3	1083.7	520.1	235.2	187.9	170.5	161.7	161.7	166.7
40°	5968.5	5131.1	2910.2	1055.1	492.7	214.0	170.5	155.5	148.1	148.1	150.5
42.5°	6039.4	5259.3	2887.8	1045.1	461.6	209.0	155.5	144.3	135.6	134.4	133.1
45°	6166.3	5454.6	2891.5	1033.9	429.3	190.4	146.8	134.4	121.9	120.7	119.4
47.5°	6305.7	5595.2	2899.0	990.4	398.1	159.3	153.0	124.4	109.5	107.0	107.0
50°	6186.2	5707.2	2963.7	946.8	358.3	129.4	150.5	117.0	97.0	93.3	94.6
52.5°	6201.1	5839.1	3100.6	885.9	308.6	103.3	121.9	110.7	88.3	82.1	83.4
55°	5962.3	5699.7	3119.2	821.2	241.4	79.6	93.3	97.0	74.7	72.2	72.2
57.5°	5132.4	4826.3	2752.2	665.7	159.3	65.9	67.2	84.6	64.7	62.2	63.5
60°	4392.1	3874.5	2214.7	439.2	99.5	52.3	48.5	85.9	57.2	56.0	59.7
62.5°	4003.9	3183.9	1679.7	272.5	68.4	39.8	33.6	69.7	49.8	49.8	54.7
65°	2892.8	2138.8	976.7	143.1	48.5	31.1	24.9	39.8	41.1	42.3	44.8
67.5°	1791.7	1080.0	411.8	69.7	32.3	21.2	16.2	24.9	27.4	27.4	29.9
70°	884.6	430.5	136.9	39.8	24.9	17.4	11.2	13.7	13.7	12.4	13.7
72.5°	273.7	129.4	34.8	24.9	17.4	11.2	6.2	5.0	2.5	0.0	1.2
75°	31.1	24.9	22.4	17.4	11.2	5.0	1.2	0.0	0.0	0.0	0.0
77.5°	18.7	21.2	21.2	17.4	11.2	3.7	0.0	0.0	0.0	0.0	0.0
80°	14.9	16.2	17.4	16.2	10.0	5.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.7	21.2	23.6	21.2	13.7	6.2	2.5	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	3.7	1.2	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°	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6
2.5°	2727.3	2699.9	2738.5	2681.3	2680.0	2681.3	2665.1	2650.2	2673.8	2737.3	2743.5
5°	2081.6	2140.0	2158.7	2219.7	2186.1	2136.3	2146.3	2112.7	2194.8	2230.9	2202.3
7.5°	1515.4	1511.7	1637.4	1644.8	1661.0	1662.3	1659.8	1593.8	1526.6	1541.6	1586.4
10°	1175.8	1112.3	1173.3	1167.1	1206.9	1195.7	1211.9	1140.9	1164.6	1164.6	1193.2
12.5°	958.0	890.9	879.7	863.5	879.7	885.9	892.1	878.4	918.2	936.9	956.8
15°	731.6	694.3	684.3	653.2	658.2	675.6	690.5	696.8	684.3	712.9	715.4
17.5°	531.3	530.0	536.3	535.0	530.0	526.3	525.1	508.9	503.9	506.4	516.3
20°	403.1	413.1	434.2	455.4	466.6	452.9	434.2	406.9	395.7	398.1	399.4
22.5°	344.6	359.6	388.2	411.8	423.0	398.1	364.6	340.9	335.9	334.7	333.4
25°	312.3	329.7	350.9	358.3	357.1	342.2	317.3	307.3	304.8	302.3	291.1
27.5°	294.9	301.1	304.8	313.5	317.3	307.3	301.1	286.2	283.7	283.7	276.2
30°	284.9	281.2	286.2	279.9	284.9	277.5	278.7	278.7	272.5	275.0	275.0
32.5°	265.0	266.3	266.3	253.8	257.6	248.8	257.6	265.0	266.3	267.5	277.5
35°	194.1	216.5	227.7	227.7	231.4	225.2	224.0	215.2	204.1	192.9	187.9
37.5°	170.5	179.2	194.1	202.8	209.0	204.1	192.9	179.2	172.9	168.0	163.0
40°	151.8	159.3	169.2	179.2	191.6	185.4	168.0	161.7	154.3	154.3	149.3
42.5°	136.9	140.6	146.8	161.7	175.4	163.0	150.5	145.6	141.8	140.6	139.4
45°	123.2	124.4	130.6	143.1	159.3	146.8	134.4	128.2	129.4	130.6	129.4
47.5°	110.7	113.2	117.0	131.9	141.8	135.6	121.9	118.2	118.2	118.2	119.4
50°	95.8	102.0	109.5	121.9	129.4	125.7	114.5	109.5	107.0	107.0	108.2
52.5°	85.9	90.8	100.8	115.7	125.7	119.4	108.2	100.8	95.8	94.6	97.0
55°	74.7	83.4	99.5	110.7	124.4	118.2	105.8	97.0	88.3	87.1	87.1
57.5°	67.2	80.9	95.8	109.5	120.7	115.7	105.8	94.6	83.4	82.1	82.1
60°	63.5	78.4	93.3	105.8	120.7	113.2	104.5	92.1	79.6	79.6	78.4
62.5°	59.7	73.4	88.3	100.8	115.7	109.5	100.8	88.3	75.9	75.9	73.4
65°	49.8	63.5	73.4	84.6	100.8	94.6	85.9	77.1	67.2	64.7	65.9
67.5°	34.8	43.5	53.5	64.7	74.7	72.2	68.4	62.2	53.5	52.3	51.0
70°	17.4	23.6	32.3	43.5	52.3	49.8	47.3	42.3	37.3	36.1	36.1
72.5°	2.5	7.5	13.7	19.9	27.4	28.6	27.4	26.1	24.9	23.6	24.9
75°	0.0	0.0	0.0	5.0	11.2	13.7	16.2	18.7	18.7	16.2	19.9
77.5°	0.0	0.0	0.0	0.0	1.2	6.2	12.4	16.2	19.9	17.4	23.6
80°	0.0	0.0	0.0	0.0	1.2	7.5	12.4	17.4	19.9	17.4	24.9
82.5°	0.0	0.0	0.0	0.0	1.2	8.7	12.4	16.2	18.7	17.4	22.4
85°	0.0	0.0	0.0	0.0	3.7	7.5	5.0	2.5	1.2	1.2	3.7
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°	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6
2.5°	2778.3	2866.7	2961.2	2997.3	3109.3	3193.9	3251.1	3374.3	3393.0	3394.2
5°	2232.1	2276.9	2438.7	2514.6	2681.3	2810.7	2948.8	3147.9	3281.0	3290.9
7.5°	1586.4	1710.8	1779.2	1977.1	2182.3	2385.2	2590.4	2821.9	2976.2	2979.9
10°	1276.6	1357.4	1479.4	1627.4	1800.4	2006.9	2280.6	2549.4	2706.2	2744.7
12.5°	1027.7	1169.6	1308.9	1461.9	1593.8	1749.4	2044.2	2402.6	2532.0	2609.1
15°	791.3	920.7	1085.0	1264.1	1413.4	1621.2	1957.1	2366.5	2584.2	2610.4
17.5°	583.5	699.2	851.0	1020.3	1244.2	1539.1	1972.1	2549.4	2754.7	2798.2
20°	419.3	486.5	605.9	802.5	1087.4	1443.3	1987.0	2734.8	3047.1	3121.7
22.5°	332.2	359.6	438.0	612.2	912.0	1342.5	2092.8	3089.4	3449.0	3557.2
25°	288.7	303.6	340.9	482.8	801.3	1332.6	2262.0	3514.9	3984.0	4062.3
27.5°	278.7	281.2	313.5	442.9	741.5	1266.6	2326.7	3817.2	4317.4	4397.0
30°	293.6	333.4	335.9	374.5	630.8	1136.0	2360.3	4109.6	4599.8	4658.3
32.5°	253.8	241.4	250.1	289.9	554.9	1060.1	2423.7	4364.7	4922.1	4963.2
35°	176.7	185.4	205.3	251.3	485.2	980.4	2439.9	4645.9	5228.2	5270.5
37.5°	163.0	168.0	184.1	214.0	426.8	935.6	2417.5	4851.2	5545.4	5603.9
40°	151.8	158.0	166.7	194.1	383.2	885.9	2386.4	5036.6	5739.5	5883.9
42.5°	143.1	148.1	155.5	185.4	345.9	836.1	2342.8	5297.9	5913.7	6039.4
45°	133.1	140.6	149.3	180.4	324.7	802.5	2310.5	5281.7	6014.5	6081.7
47.5°	123.2	135.6	145.6	168.0	318.5	786.3	2324.2	5220.7	5932.4	5886.4
50°	113.2	129.4	146.8	139.4	303.6	754.0	2340.4	5304.1	5737.1	5728.3
52.5°	104.5	123.2	136.9	114.5	270.0	722.9	2497.1	5413.6	5875.2	5759.5
55°	92.1	110.7	109.5	92.1	219.0	699.2	2620.3	5416.1	5781.8	5825.4
57.5°	83.4	98.3	85.9	77.1	161.7	584.8	2420.0	4541.4	4949.5	5026.6
60°	77.1	95.8	64.7	61.0	105.8	421.8	2112.7	3517.4	3934.2	4079.8
62.5°	70.9	90.8	51.0	49.8	73.4	299.9	1736.9	2943.8	3390.5	3588.3
65°	62.2	64.7	41.1	38.6	52.3	161.7	1057.6	2026.8	2534.5	2607.9
67.5°	51.0	49.8	33.6	31.1	34.8	78.4	466.6	1015.3	1469.4	1592.6
70°	41.1	41.1	28.6	24.9	24.9	36.1	121.9	404.4	664.4	735.3
72.5°	29.9	31.1	22.4	19.9	18.7	17.4	19.9	80.9	174.2	222.7
75°	26.1	27.4	22.4	17.4	13.7	11.2	8.7	7.5	10.0	16.2
77.5°	28.6	28.6	23.6	16.2	12.4	8.7	5.0	2.5	2.5	1.2
80°	36.1	37.3	31.1	21.2	14.9	10.0	6.2	2.5	1.2	1.2
82.5°	38.6	42.3	34.8	26.1	18.7	11.2	6.2	1.2	0.0	0.0
85°	10.0	16.2	27.4	23.6	18.7	11.2	6.2	1.2	0.0	0.0
87.5°	0.0	1.2	3.7	3.7	5.0	5.0	3.7	1.2	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)