

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: P527301

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527301  
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-SA2B-740-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 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: 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

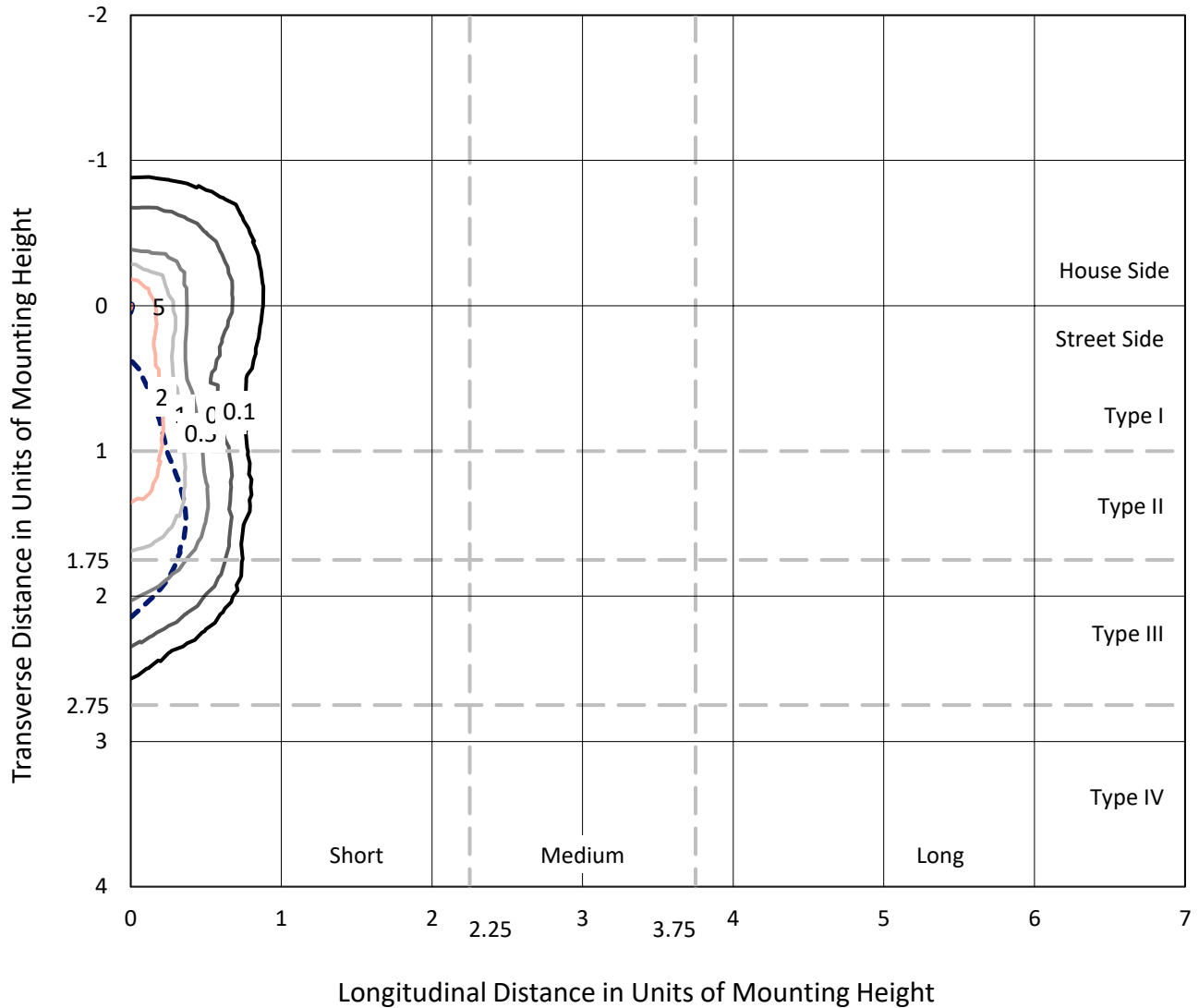
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

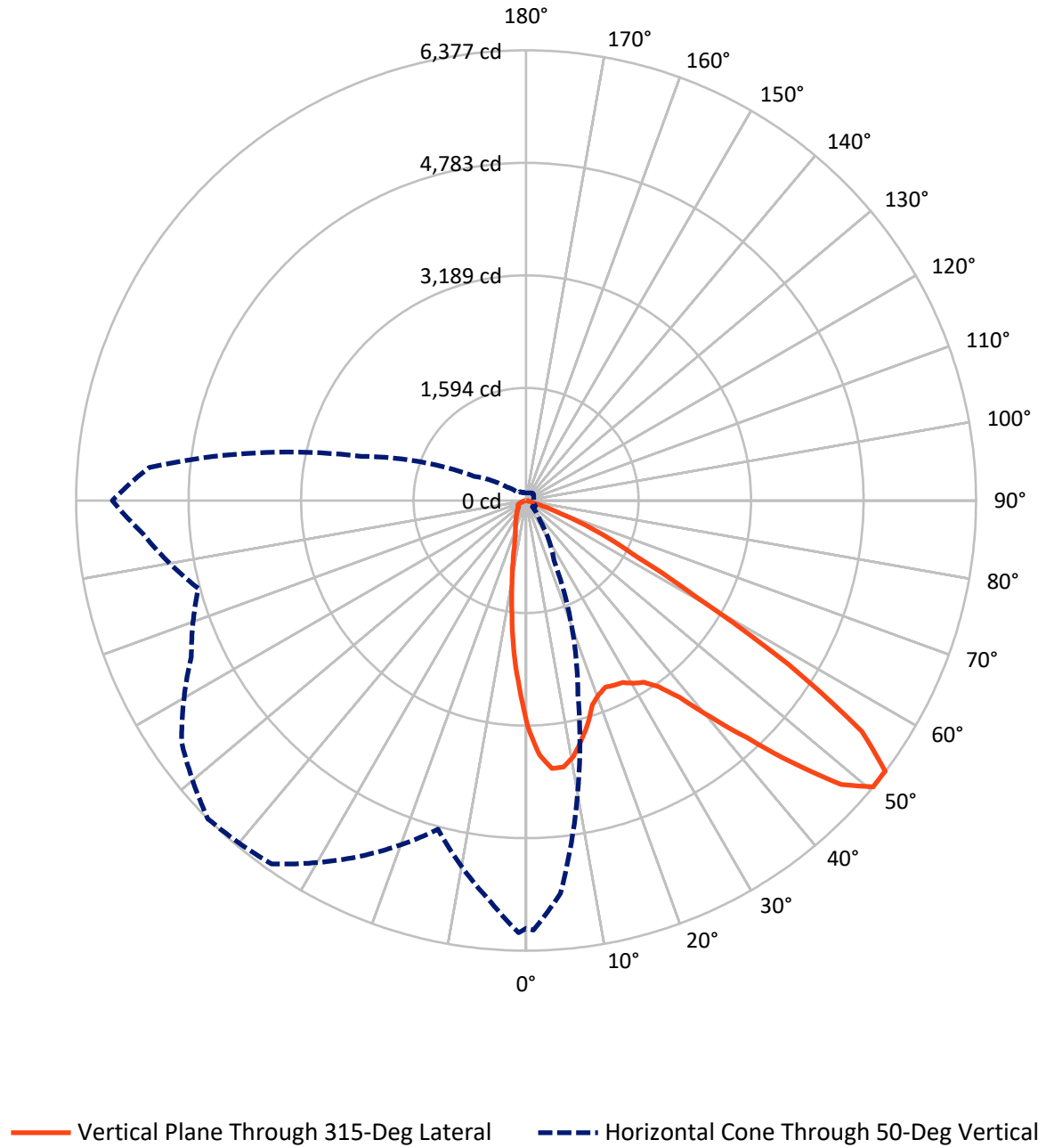
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1267.1	0.0	1267.1
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	5058.9	0.0	5058.9
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	6326.0	0.0	6326.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.8	3.7
10°-20°	464.7	7.3
20°-30°	698.2	11.0
30°-40°	1047.9	16.6
40°-50°	1472.8	23.3
50°-60°	1588.7	25.1
60°-70°	737.6	11.7
70°-80°	69.4	1.1
80°-90°	12.8	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°	6326.0	100.0
0°-180°	6326.0	100.0

**Coefficient of Utilization**



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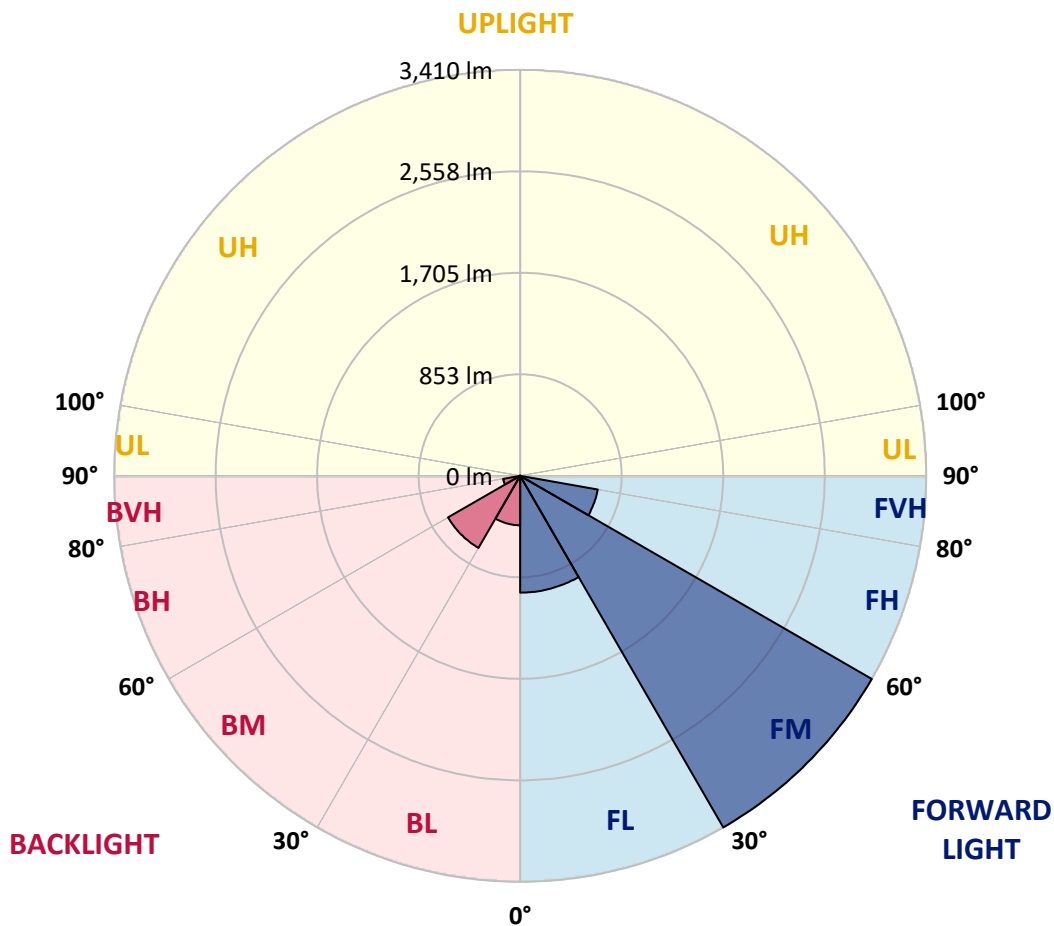
CATALOG NUMBER: GALN-SA2B-740-U-SLR-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	981.4	15.5			
FM (30°-60°)	3410.2	53.9			
FH (60°-80°)	661.5	10.5			G1/1800
FVH (80°-90°)	5.8	0.1			G0/10
BL (0°-30°)	415.3	6.6	B1/500		
BM (30°-60°)	699.3	11.1	B1/1000		
BH (60°-80°)	145.5	2.3	B1/500		G1/500
BVH (80°-90°)	7.0	0.1			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°	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1
2.5°	3334.8	3283.4	3218.1	3164.2	3083.8	2921.9	2878.0	2825.3	2781.3	2722.3	2639.5
5°	3032.4	3016.0	2985.9	2782.6	2635.7	2439.9	2279.3	2211.5	2122.4	2049.6	1996.9
7.5°	2801.4	2736.2	2640.8	2436.2	2201.5	1991.9	1813.6	1709.5	1591.5	1551.3	1479.8
10°	2554.2	2569.2	2428.7	2141.2	1857.6	1688.1	1577.7	1477.3	1370.6	1300.3	1198.6
12.5°	2475.1	2426.1	2318.2	1963.0	1720.8	1562.6	1428.3	1304.1	1191.1	1078.1	980.2
15°	2526.6	2451.2	2300.6	1925.3	1615.3	1418.3	1250.1	1081.9	977.7	833.4	731.7
17.5°	2711.1	2650.8	2448.7	1965.5	1561.4	1280.2	1030.5	857.2	697.8	567.3	515.9
20°	3018.6	2933.2	2679.7	2017.0	1481.0	1113.3	835.9	622.5	471.9	416.7	387.8
22.5°	3319.8	3273.3	2953.3	2116.1	1409.5	965.2	627.6	419.2	352.7	342.6	323.8
25°	3893.4	3754.1	3371.2	2295.6	1354.3	825.9	473.2	337.6	298.7	291.2	293.7
27.5°	4234.8	4118.0	3757.8	2414.8	1292.8	719.2	400.4	310.0	283.7	267.3	261.1
30°	4562.4	4426.8	3949.9	2485.1	1161.0	606.2	355.2	297.5	291.2	267.3	259.8
32.5°	4814.6	4681.6	4227.2	2590.6	1107.0	533.4	292.4	232.2	215.9	213.4	236.0
35°	5201.2	5059.4	4464.5	2648.3	1065.6	495.8	253.5	207.1	188.3	180.7	182.0
37.5°	5561.4	5464.8	4684.1	2670.9	1021.7	484.5	227.2	185.8	169.4	164.4	163.2
40°	5862.7	5646.8	4892.4	2694.7	1002.8	463.1	210.9	169.4	158.1	150.6	150.6
42.5°	6000.7	5781.1	5125.9	2680.9	997.8	429.3	210.9	155.6	146.8	139.3	138.1
45°	5970.6	5881.5	5230.1	2674.7	997.8	395.4	192.0	151.9	139.3	129.3	126.8
47.5°	6048.4	5931.7	5360.6	2701.0	977.7	371.5	161.9	159.4	131.8	119.2	116.7
50°	6062.2	6084.8	5587.8	2837.8	933.8	341.4	126.8	156.9	126.8	107.9	105.4
52°	6152.6	6012.0	5656.8	2910.6	887.4	318.8	106.7	134.3	121.7	100.4	97.9
52.5°	6028.3	6120.0	5673.1	2937.0	892.4	303.7	102.9	131.8	119.2	100.4	94.1
55°	5889.0	5976.9	5606.6	2993.5	818.3	238.5	80.3	95.4	107.9	87.9	84.1
57.5°	5118.4	5207.5	4872.4	2741.2	666.5	168.2	66.5	71.5	95.4	81.6	77.8
60°	4549.8	4485.8	4089.2	2286.8	473.2	94.1	52.7	55.2	104.2	75.3	74.1
62.5°	4158.2	4021.4	3417.7	1765.9	288.7	62.8	41.4	42.7	80.3	70.3	70.3
65°	3076.3	2923.2	2270.5	1068.1	141.8	43.9	31.4	33.9	50.2	60.2	60.2
67.5°	1755.9	1696.9	1097.0	482.0	59.0	27.6	23.8	26.4	38.9	48.9	46.4
70°	807.0	724.2	421.7	101.7	27.6	18.8	18.8	21.3	31.4	36.4	33.9
72.5°	236.0	223.4	102.9	16.3	11.3	11.3	12.6	16.3	23.8	27.6	25.1
75°	17.6	11.3	7.5	5.0	5.0	7.5	10.0	16.3	23.8	26.4	21.3
77.5°	1.3	2.5	1.3	1.3	3.8	7.5	11.3	20.1	31.4	32.6	23.8
80°	1.3	1.3	0.0	1.3	3.8	7.5	12.6	22.6	35.1	37.7	20.1
82.5°	0.0	0.0	0.0	1.3	5.0	10.0	15.1	23.8	32.6	40.2	21.3
85°	0.0	0.0	0.0	1.3	7.5	13.8	17.6	6.3	3.8	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°	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1
2.5°	2698.5	2665.9	2653.3	2664.6	2660.8	2657.1	2726.1	2711.1	2708.5	2731.1	2726.1
5°	2025.8	1968.0	2126.2	2062.2	2128.7	2168.8	2176.4	2180.1	2226.6	2177.6	2241.6
7.5°	1443.4	1458.4	1457.2	1499.9	1576.4	1644.2	1684.4	1653.0	1650.5	1644.2	1616.6
10°	1153.5	1127.1	1122.1	1112.0	1135.9	1193.6	1242.6	1203.7	1176.0	1213.7	1202.4
12.5°	942.6	906.2	886.1	845.9	847.2	886.1	886.1	886.1	913.7	935.1	951.4
15°	722.9	692.8	692.8	652.7	643.9	645.1	665.2	667.7	711.7	724.2	730.5
17.5°	505.8	489.5	508.3	524.6	514.6	517.1	524.6	527.1	533.4	528.4	541.0
20°	389.1	386.6	391.6	420.5	441.8	454.4	445.6	433.0	425.5	407.9	407.9
22.5°	330.1	335.1	343.9	367.7	395.4	402.9	392.9	364.0	341.4	338.9	340.1
25°	293.7	298.7	312.5	327.6	342.6	355.2	345.2	323.8	311.3	300.0	300.0
27.5°	271.1	273.6	281.1	292.4	305.0	315.0	311.3	300.0	286.2	281.1	269.9
30°	253.5	257.3	266.1	268.6	279.9	284.9	278.6	276.1	267.3	261.1	257.3
32.5°	244.7	243.5	249.8	252.3	253.5	257.3	249.8	253.5	252.3	242.2	238.5
35°	184.5	194.5	210.9	224.7	228.4	233.5	232.2	227.2	213.4	202.1	188.3
37.5°	165.7	172.0	180.7	192.0	207.1	213.4	210.9	198.3	182.0	174.5	172.0
40°	153.1	156.9	164.4	172.0	187.0	198.3	189.5	178.2	165.7	159.4	155.6
42.5°	141.8	143.1	146.8	154.4	165.7	183.2	168.2	153.1	148.1	144.3	141.8
45°	129.3	129.3	134.3	138.1	150.6	166.9	151.9	138.1	135.6	133.0	131.8
47.5°	119.2	120.5	123.0	128.0	138.1	149.4	139.3	128.0	121.7	120.5	118.0
50°	106.7	107.9	113.0	118.0	130.5	136.8	130.5	118.0	111.7	107.9	107.9
52°	96.6	100.4	105.4	115.5	124.3	134.3	126.8	113.0	105.4	101.7	99.2
52.5°	95.4	97.9	102.9	114.2	124.3	133.0	125.5	111.7	102.9	100.4	97.9
55°	85.3	89.1	97.9	111.7	123.0	133.0	123.0	110.5	97.9	91.6	89.1
57.5°	81.6	84.1	95.4	113.0	121.7	133.0	123.0	110.5	97.9	86.6	84.1
60°	77.8	82.8	95.4	109.2	120.5	134.3	124.3	109.2	95.4	81.6	81.6
62.5°	74.1	77.8	94.1	106.7	115.5	129.3	119.2	106.7	91.6	77.8	76.6
65°	64.0	70.3	82.8	89.1	99.2	111.7	101.7	92.9	80.3	69.0	67.8
67.5°	48.9	51.5	61.5	69.0	75.3	86.6	81.6	70.3	61.5	52.7	52.7
70°	33.9	36.4	43.9	47.7	54.0	60.2	56.5	47.7	41.4	36.4	35.1
72.5°	23.8	25.1	27.6	30.1	32.6	35.1	33.9	27.6	23.8	22.6	21.3
75°	18.8	21.3	22.6	21.3	20.1	18.8	18.8	16.3	13.8	12.6	12.6
77.5°	18.8	20.1	18.8	16.3	13.8	12.6	11.3	10.0	7.5	6.3	7.5
80°	16.3	16.3	16.3	13.8	12.6	11.3	10.0	8.8	7.5	6.3	6.3
82.5°	17.6	17.6	16.3	13.8	13.8	11.3	11.3	10.0	8.8	6.3	6.3
85°	0.0	0.0	0.0	2.5	6.3	11.3	11.3	10.0	8.8	7.5	7.5
87.5°	0.0	0.0	0.0	0.0	1.3	2.5	5.0	6.3	7.5	7.5	7.5
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1
2.5°	2771.3	2819.0	2909.4	2999.7	3055.0	3120.2	3238.2	3301.0	3382.5	3422.7	3501.8
5°	2232.9	2345.8	2386.0	2488.9	2599.3	2709.8	2885.5	3078.8	3239.5	3349.9	3493.0
7.5°	1629.1	1655.5	1811.1	1880.2	2060.9	2261.7	2501.4	2744.9	2948.3	3129.0	3238.2
10°	1221.2	1317.9	1415.8	1547.6	1693.2	1900.2	2129.9	2398.5	2662.1	2842.8	2980.9
12.5°	981.5	1058.1	1188.6	1330.4	1509.9	1646.7	1877.7	2143.7	2485.1	2662.1	2844.1
15°	743.0	840.9	989.0	1135.9	1325.4	1469.7	1703.2	2038.3	2477.6	2721.1	2878.0
17.5°	551.0	617.5	750.6	915.0	1108.3	1311.6	1626.6	2027.0	2561.7	2851.6	3013.5
20°	421.7	444.3	528.4	675.3	884.9	1150.9	1502.4	2076.0	2810.2	3169.2	3333.6
22.5°	341.4	351.4	384.1	485.7	689.1	1010.4	1443.4	2109.9	3090.1	3549.5	3769.1
25°	297.5	295.0	316.3	360.2	538.4	878.6	1368.1	2237.9	3432.7	3996.3	4193.3
27.5°	271.1	271.1	281.1	312.5	446.8	793.2	1320.4	2329.5	3777.9	4389.1	4495.8
30°	257.3	259.8	288.7	298.7	371.5	691.6	1241.3	2422.4	4108.0	4640.2	4787.0
32.5°	238.5	228.4	222.2	247.3	312.5	599.9	1162.2	2461.3	4375.3	4947.7	5073.2
35°	183.2	178.2	185.8	204.6	268.6	522.1	1074.4	2505.2	4682.8	5304.1	5329.2
37.5°	165.7	164.4	169.4	185.8	225.9	454.4	1011.6	2493.9	4917.5	5599.1	5531.3
40°	153.1	153.1	156.9	170.7	202.1	406.7	946.4	2483.9	5144.7	5930.4	5732.1
42.5°	143.1	143.1	149.4	158.1	192.0	375.3	897.4	2470.1	5335.5	6133.8	5850.1
45°	129.3	133.0	143.1	151.9	194.5	353.9	861.0	2417.4	5400.8	6131.2	5793.6
47.5°	119.2	124.3	134.3	146.8	175.7	347.7	835.9	2370.9	5378.2	5980.6	5616.6
50°	107.9	114.2	128.0	149.4	149.4	335.1	809.6	2412.3	5361.9	5863.9	5447.2
52°	100.4	105.4	123.0	145.6	130.5	308.8	793.2	2492.7	5428.4	5848.8	5371.9
52.5°	99.2	102.9	119.2	143.1	124.3	303.7	781.9	2511.5	5449.7	5811.2	5423.4
55°	87.9	92.9	109.2	111.7	101.7	249.8	745.5	2554.2	5344.3	5737.1	5374.4
57.5°	82.8	85.3	96.6	91.6	87.9	188.3	641.4	2487.6	4746.9	5095.8	5000.4
60°	76.6	79.1	90.4	71.5	74.1	131.8	482.0	2160.1	3811.8	4246.1	4418.0
62.5°	74.1	72.8	85.3	57.7	62.8	95.4	340.1	1755.9	2937.0	3495.5	3793.0
65°	65.3	64.0	61.5	48.9	54.0	74.1	203.3	1145.9	2069.7	2644.5	2807.7
67.5°	50.2	52.7	45.2	38.9	45.2	57.7	113.0	513.3	1085.7	1586.5	1718.3
70°	35.1	37.7	36.4	33.9	40.2	47.7	65.3	175.7	449.3	833.4	918.7
72.5°	21.3	26.4	27.6	28.9	35.1	41.4	46.4	56.5	119.2	295.0	366.5
75°	12.6	17.6	21.3	25.1	28.9	35.1	38.9	40.2	41.4	55.2	89.1
77.5°	8.8	12.6	18.8	23.8	28.9	35.1	41.4	43.9	41.4	38.9	41.4
80°	7.5	12.6	17.6	22.6	30.1	36.4	41.4	41.4	40.2	35.1	37.7
82.5°	7.5	12.6	18.8	23.8	28.9	35.1	40.2	41.4	37.7	35.1	36.4
85°	8.8	13.8	20.1	25.1	31.4	28.9	26.4	21.3	20.1	16.3	17.6
87.5°	8.8	12.6	12.6	13.8	15.1	15.1	15.1	13.8	11.3	10.0	10.0
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°	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1	3208.1
2.5°	3505.5	3606.0	3602.2	3604.7	3589.6	3488.0	3439.0	3314.8	3349.9	3334.8
5°	3639.8	3739.0	3824.3	3814.3	3698.8	3560.8	3356.2	3162.9	3110.2	3032.4
7.5°	3505.5	3744.0	3823.1	3811.8	3641.1	3464.1	3137.8	2944.5	2852.9	2801.4
10°	3292.2	3568.3	3666.2	3686.3	3570.8	3302.2	3002.2	2692.2	2643.3	2554.2
12.5°	3170.4	3371.2	3431.5	3485.5	3445.3	3244.5	2899.3	2601.9	2534.1	2475.1
15°	3071.3	3190.5	3215.6	3277.1	3301.0	3193.0	2953.3	2699.8	2532.8	2526.6
17.5°	3162.9	3113.9	3022.3	3041.1	3116.5	3194.3	3092.6	2893.0	2731.1	2711.1
20°	3314.8	3098.9	2891.8	2938.2	3001.0	3239.5	3303.5	3162.9	3070.0	3018.6
22.5°	3489.2	3125.2	2850.4	2873.0	2992.2	3341.1	3644.9	3567.0	3393.8	3319.8
25°	3811.8	3198.0	2883.0	2898.1	3061.2	3483.0	3953.6	4011.4	3908.4	3893.4
27.5°	4126.8	3386.3	2954.5	2920.7	3096.4	3621.0	4140.6	4450.6	4269.9	4234.8
30°	4287.5	3539.4	3061.2	3003.5	3242.0	3705.1	4253.6	4736.8	4578.7	4562.4
32.5°	4533.5	3678.7	3144.1	3070.0	3323.6	3809.3	4464.5	5049.3	4896.2	4814.6
35°	4636.4	3830.6	3326.1	3239.5	3557.0	3954.9	4572.4	5328.0	5280.3	5201.2
37.5°	4834.7	3993.8	3540.7	3535.7	3839.4	4144.4	4766.9	5707.0	5698.2	5561.4
40°	4851.0	4172.0	3879.6	4037.7	4276.2	4474.5	4937.6	5812.4	5955.5	5862.7
42.5°	4876.1	4484.5	4465.7	4596.2	4800.8	4758.1	4943.9	5837.5	6055.9	6000.7
45°	4887.4	4797.1	5061.9	5302.9	5388.2	5129.7	4884.9	5789.9	6108.7	5970.6
47.5°	4797.1	5065.7	5543.9	6009.5	6034.6	5358.1	4859.8	5740.9	6140.0	6048.4
50°	4809.6	5233.8	5960.6	6377.3	6285.6	5560.2	4820.9	5710.8	6123.7	6062.2
52°	4779.5	5237.6	6019.5	6369.7	6305.7	5448.5	4754.4	5595.3	6108.7	6152.6
52.5°	4813.4	5215.0	5958.0	6374.7	6291.9	5503.7	4745.6	5659.3	6117.4	6028.3
55°	4696.6	4946.4	5597.8	5774.8	5762.2	4995.4	4475.7	5447.2	5887.8	5889.0
57.5°	4244.8	4287.5	4390.4	4386.6	4328.9	3927.3	3828.1	5009.2	5248.9	5118.4
60°	3740.2	3139.0	2861.7	2748.7	2684.7	2619.4	3386.3	4582.4	4605.0	4549.8
62.5°	3231.9	2176.4	1807.4	1776.0	1791.1	2029.5	3273.3	4413.0	4277.4	4158.2
65°	2608.1	1586.5	1312.9	1271.4	1418.3	1675.6	2649.6	3383.8	3175.4	3076.3
67.5°	1637.9	1157.2	887.4	809.6	986.5	1153.5	1740.8	2126.2	1892.7	1755.9
70°	971.5	646.4	401.6	360.2	405.4	615.0	975.2	1060.6	877.3	807.0
72.5°	382.8	237.2	111.7	95.4	99.2	215.9	359.0	350.2	264.8	236.0
75°	102.9	71.5	38.9	31.4	26.4	40.2	57.7	37.7	13.8	17.6
77.5°	47.7	42.7	33.9	26.4	20.1	15.1	7.5	2.5	2.5	1.3
80°	41.4	36.4	31.4	26.4	20.1	12.6	6.3	1.3	1.3	1.3
82.5°	38.9	33.9	28.9	23.8	18.8	12.6	6.3	1.3	0.0	0.0
85°	16.3	21.3	23.8	22.6	20.1	12.6	6.3	1.3	0.0	0.0
87.5°	8.8	7.5	6.3	5.0	3.8	2.5	2.5	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)