

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: P527691

Luminaire Tested: **GALN-SA2D-727-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527691  
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-SA2D-727-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 1200mA 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: 7193 lumens  
Efficiency: N/A  
Efficacy: 57.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

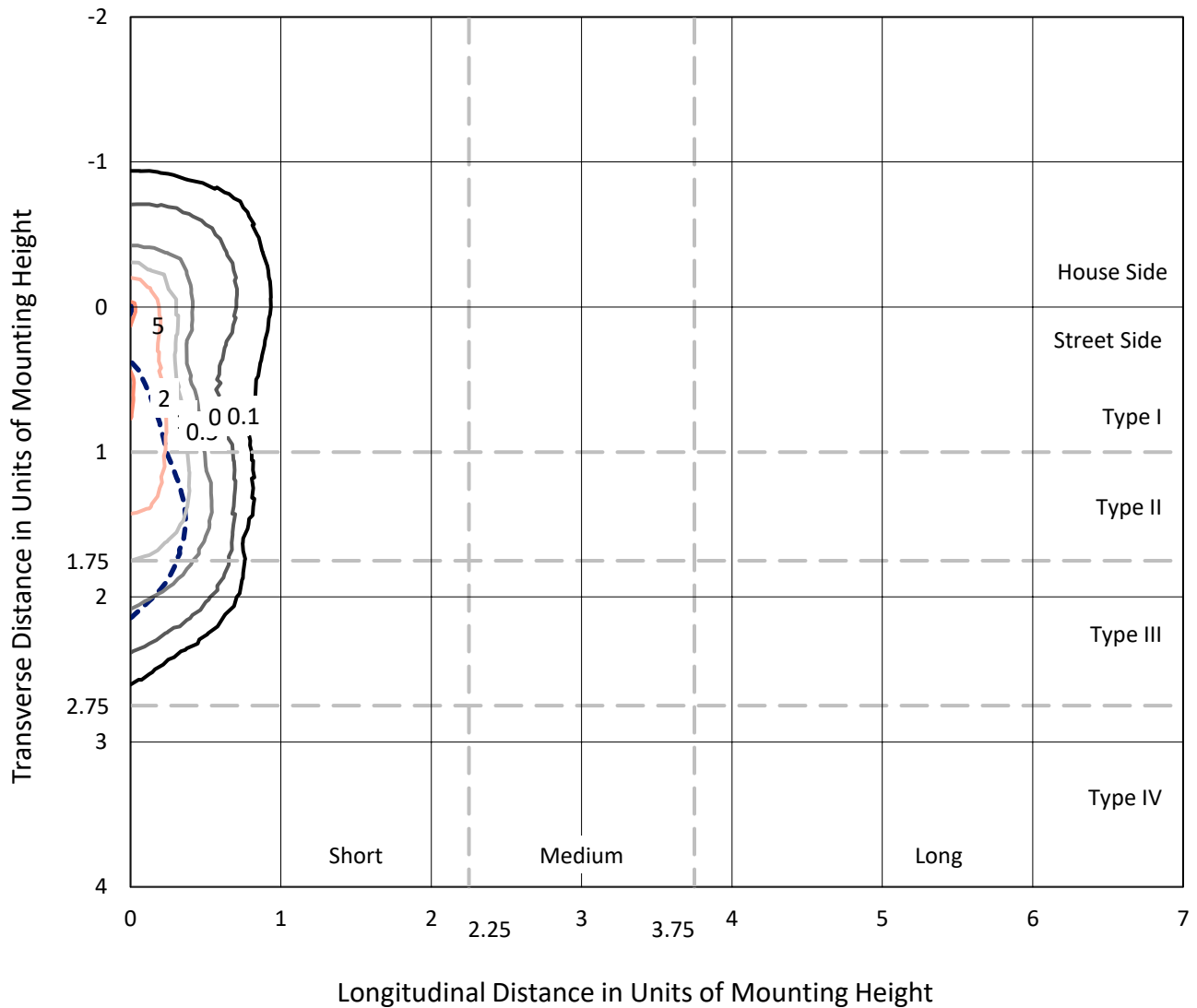
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

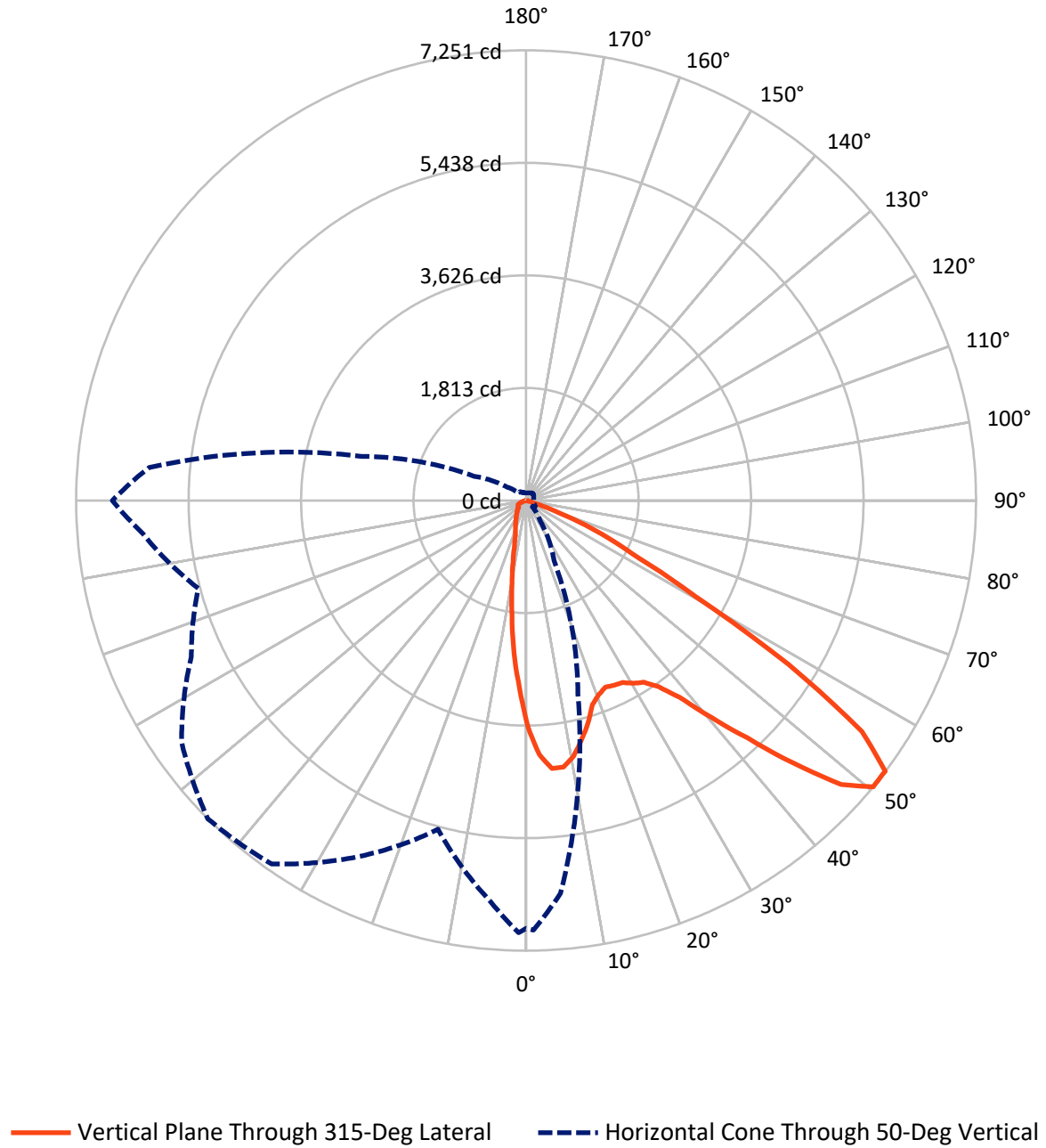
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	1440.8	0.0	1440.8
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	5752.2	0.0	5752.2
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	7193.0	0.0	7193.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	265.9	3.7
10°-20°	528.4	7.3
20°-30°	793.9	11.0
30°-40°	1191.6	16.6
40°-50°	1674.7	23.3
50°-60°	1806.4	25.1
60°-70°	838.7	11.7
70°-80°	78.9	1.1
80°-90°	14.5	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°	7193.0	100.0
0°-180°	7193.0	100.0

**Coefficient of Utilization**



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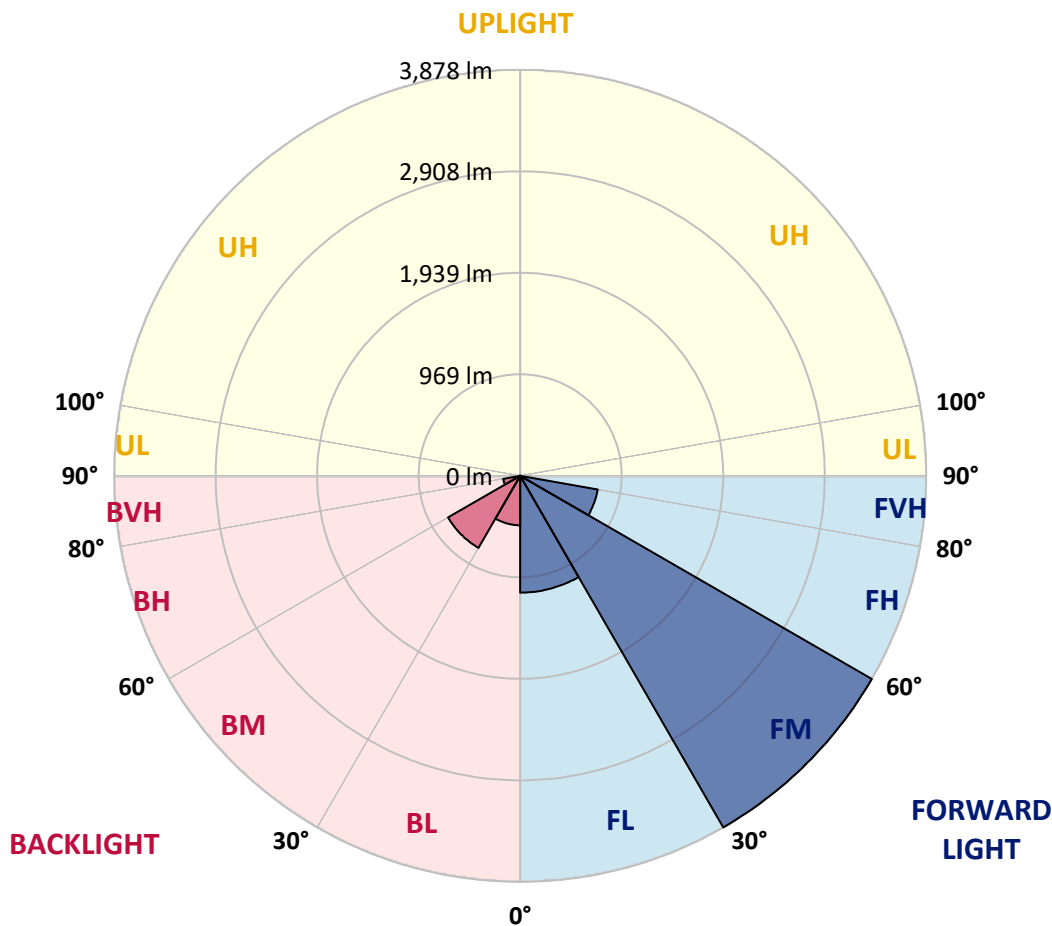
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1115.9	15.5			
FM (30°-60°)	3877.6	53.9			
FH (60°-80°)	752.2	10.5			G1/1800
FVH (80°-90°)	6.6	0.1			G0/10
BL (0°-30°)	472.2	6.6	B1/500		
BM (30°-60°)	795.1	11.1	B1/1000		
BH (60°-80°)	165.4	2.3	B1/500		G1/500
BVH (80°-90°)	8.0	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°	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8
2.5°	3791.9	3733.4	3659.2	3597.8	3506.5	3322.4	3272.4	3212.5	3162.5	3095.5	3001.3
5°	3448.0	3429.4	3395.2	3164.0	2997.0	2774.4	2591.7	2514.6	2413.3	2330.5	2270.6
7.5°	3185.4	3111.2	3002.7	2770.1	2503.2	2264.9	2062.2	1943.8	1809.6	1763.9	1682.6
10°	2904.2	2921.3	2761.5	2434.7	2112.2	1919.5	1793.9	1679.7	1558.4	1478.5	1362.9
12.5°	2814.3	2758.7	2635.9	2232.0	1956.6	1776.8	1624.1	1482.8	1354.4	1225.9	1114.6
15°	2872.8	2787.2	2615.9	2189.2	1836.7	1612.7	1421.4	1230.2	1111.7	947.6	832.0
17.5°	3082.6	3014.1	2784.3	2234.9	1775.4	1455.7	1171.7	974.7	793.5	645.1	586.6
20°	3432.3	3335.2	3046.9	2293.4	1684.0	1265.9	950.5	707.9	536.6	473.8	441.0
22.5°	3774.8	3722.0	3358.0	2406.2	1602.7	1097.5	713.6	476.7	401.0	389.6	368.2
25°	4427.0	4268.6	3833.3	2610.2	1539.9	939.1	538.0	383.9	339.7	331.1	333.9
27.5°	4815.2	4682.4	4272.8	2745.8	1469.9	817.7	455.3	352.5	322.5	304.0	296.8
30°	5187.6	5033.5	4491.2	2825.7	1320.1	689.3	403.9	338.2	331.1	304.0	295.4
32.5°	5474.5	5323.2	4806.6	2945.6	1258.7	606.5	332.5	264.0	245.5	242.6	268.3
35°	5914.0	5752.8	5076.3	3011.3	1211.6	563.7	288.3	235.5	214.1	205.5	206.9
37.5°	6323.6	6213.7	5326.1	3036.9	1161.7	550.9	258.3	211.2	192.7	187.0	185.5
40°	6666.1	6420.7	5563.0	3064.1	1140.3	526.6	239.8	192.7	179.8	171.3	171.3
42.5°	6823.1	6573.4	5828.4	3048.4	1134.6	488.1	239.8	177.0	167.0	158.4	157.0
45°	6788.9	6687.6	5946.9	3041.2	1134.6	449.5	218.4	172.7	158.4	147.0	144.1
47.5°	6877.4	6744.6	6095.3	3071.2	1111.7	422.4	184.1	181.2	149.8	135.6	132.7
50°	6893.1	6918.8	6353.6	3226.8	1061.8	388.2	144.1	178.4	144.1	122.7	119.9
52°	6995.8	6836.0	6432.1	3309.5	1009.0	362.5	121.3	152.7	138.4	114.2	111.3
52.5°	6854.5	6958.7	6450.7	3339.5	1014.7	345.4	117.0	149.8	135.6	114.2	107.0
55°	6696.1	6796.0	6375.0	3403.7	930.5	271.2	91.3	108.5	122.7	99.9	95.6
57.5°	5819.9	5921.2	5540.1	3116.9	757.8	191.2	75.6	81.3	108.5	92.8	88.5
60°	5173.4	5100.6	4649.6	2600.2	538.0	107.0	59.9	62.8	118.5	85.6	84.2
62.5°	4728.1	4572.5	3886.1	2008.0	328.2	71.4	47.1	48.5	91.3	79.9	79.9
65°	3497.9	3323.8	2581.7	1214.5	161.3	49.9	35.7	38.5	57.1	68.5	68.5
67.5°	1996.6	1929.5	1247.3	548.0	67.1	31.4	27.1	30.0	44.2	55.7	52.8
70°	917.6	823.5	479.5	115.6	31.4	21.4	21.4	24.3	35.7	41.4	38.5
72.5°	268.3	254.0	117.0	18.6	12.8	12.8	14.3	18.6	27.1	31.4	28.5
75°	20.0	12.8	8.6	5.7	5.7	8.6	11.4	18.6	27.1	30.0	24.3
77.5°	1.4	2.9	1.4	1.4	4.3	8.6	12.8	22.8	35.7	37.1	27.1
80°	1.4	1.4	0.0	1.4	4.3	8.6	14.3	25.7	40.0	42.8	22.8
82.5°	0.0	0.0	0.0	1.4	5.7	11.4	17.1	27.1	37.1	45.7	24.3
85°	0.0	0.0	0.0	1.4	8.6	15.7	20.0	7.1	4.3	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°	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8
2.5°	3068.3	3031.2	3017.0	3029.8	3025.5	3021.2	3099.7	3082.6	3079.8	3105.4	3099.7
5°	2303.4	2237.7	2417.6	2344.8	2420.4	2466.1	2474.7	2478.9	2531.7	2476.1	2548.9
7.5°	1641.2	1658.3	1656.9	1705.4	1792.5	1869.5	1915.2	1879.5	1876.7	1869.5	1838.2
10°	1311.5	1281.6	1275.9	1264.4	1291.6	1357.2	1412.9	1368.6	1337.2	1380.0	1367.2
12.5°	1071.8	1030.4	1007.6	961.9	963.3	1007.6	1007.6	1007.6	1039.0	1063.2	1081.8
15°	822.0	787.8	787.8	742.1	732.1	733.5	756.4	759.2	809.2	823.5	830.6
17.5°	575.1	556.6	578.0	596.5	585.1	588.0	596.5	599.4	606.5	600.8	615.1
20°	442.4	439.6	445.3	478.1	502.4	516.6	506.6	492.4	483.8	463.8	463.8
22.5°	375.3	381.0	391.0	418.2	449.5	458.1	446.7	413.9	388.2	385.3	386.8
25°	333.9	339.7	355.4	372.5	389.6	403.9	392.5	368.2	353.9	341.1	341.1
27.5°	308.3	311.1	319.7	332.5	346.8	358.2	353.9	341.1	325.4	319.7	306.8
30°	288.3	292.6	302.6	305.4	318.3	324.0	316.8	314.0	304.0	296.8	292.6
32.5°	278.3	276.9	284.0	286.9	288.3	292.6	284.0	288.3	286.9	275.4	271.2
35°	209.8	221.2	239.8	255.5	259.7	265.4	264.0	258.3	242.6	229.8	214.1
37.5°	188.4	195.5	205.5	218.4	235.5	242.6	239.8	225.5	206.9	198.4	195.5
40°	174.1	178.4	187.0	195.5	212.6	225.5	215.5	202.7	188.4	181.2	177.0
42.5°	161.3	162.7	167.0	175.5	188.4	208.4	191.2	174.1	168.4	164.1	161.3
45°	147.0	147.0	152.7	157.0	171.3	189.8	172.7	157.0	154.1	151.3	149.8
47.5°	135.6	137.0	139.9	145.6	157.0	169.8	158.4	145.6	138.4	137.0	134.2
50°	121.3	122.7	128.4	134.2	148.4	155.6	148.4	134.2	127.0	122.7	122.7
52°	109.9	114.2	119.9	131.3	141.3	152.7	144.1	128.4	119.9	115.6	112.7
52.5°	108.5	111.3	117.0	129.9	141.3	151.3	142.7	127.0	117.0	114.2	111.3
55°	97.0	101.3	111.3	127.0	139.9	151.3	139.9	125.6	111.3	104.2	101.3
57.5°	92.8	95.6	108.5	128.4	138.4	151.3	139.9	125.6	111.3	98.5	95.6
60°	88.5	94.2	108.5	124.2	137.0	152.7	141.3	124.2	108.5	92.8	92.8
62.5°	84.2	88.5	107.0	121.3	131.3	147.0	135.6	121.3	104.2	88.5	87.1
65°	72.8	79.9	94.2	101.3	112.7	127.0	115.6	105.6	91.3	78.5	77.1
67.5°	55.7	58.5	69.9	78.5	85.6	98.5	92.8	79.9	69.9	59.9	59.9
70°	38.5	41.4	49.9	54.2	61.4	68.5	64.2	54.2	47.1	41.4	40.0
72.5°	27.1	28.5	31.4	34.3	37.1	40.0	38.5	31.4	27.1	25.7	24.3
75°	21.4	24.3	25.7	24.3	22.8	21.4	21.4	18.6	15.7	14.3	14.3
77.5°	21.4	22.8	21.4	18.6	15.7	14.3	12.8	11.4	8.6	7.1	8.6
80°	18.6	18.6	18.6	15.7	14.3	12.8	11.4	10.0	8.6	7.1	7.1
82.5°	20.0	20.0	18.6	15.7	15.7	12.8	12.8	11.4	10.0	7.1	7.1
85°	0.0	0.0	0.0	2.9	7.1	12.8	12.8	11.4	10.0	8.6	8.6
87.5°	0.0	0.0	0.0	0.0	1.4	2.9	5.7	7.1	8.6	8.6	8.6
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°	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8
2.5°	3151.1	3205.3	3308.1	3410.9	3473.6	3547.9	3682.0	3753.4	3846.1	3891.8	3981.7
5°	2538.9	2667.3	2713.0	2830.0	2955.6	3081.2	3281.0	3500.8	3683.4	3809.0	3971.7
7.5°	1852.4	1882.4	2059.4	2137.8	2343.4	2571.7	2844.3	3121.1	3352.3	3557.8	3682.0
10°	1388.6	1498.5	1609.8	1759.7	1925.2	2160.7	2421.8	2727.3	3027.0	3232.5	3389.4
12.5°	1116.0	1203.1	1351.5	1512.8	1716.8	1872.4	2135.0	2437.5	2825.7	3027.0	3233.9
15°	844.9	956.2	1124.6	1291.6	1507.1	1671.2	1936.6	2317.7	2817.2	3094.0	3272.4
17.5°	626.5	702.2	853.4	1040.4	1260.2	1491.4	1849.6	2304.8	2912.8	3242.5	3426.6
20°	479.5	505.2	600.8	767.8	1006.1	1308.7	1708.3	2360.5	3195.4	3603.5	3790.5
22.5°	388.2	399.6	436.7	552.3	783.5	1148.8	1641.2	2399.0	3513.6	4035.9	4285.7
25°	338.2	335.4	359.6	409.6	612.2	999.0	1555.6	2544.6	3903.2	4544.0	4768.1
27.5°	308.3	308.3	319.7	355.4	508.1	901.9	1501.3	2648.8	4295.7	4990.7	5112.0
30°	292.6	295.4	328.2	339.7	422.4	786.4	1411.4	2754.4	4671.0	5276.1	5443.1
32.5°	271.2	259.7	252.6	281.1	355.4	682.2	1321.5	2798.6	4975.0	5625.8	5768.5
35°	208.4	202.7	211.2	232.6	305.4	593.7	1221.6	2848.6	5324.6	6031.1	6059.6
37.5°	188.4	187.0	192.7	211.2	256.9	516.6	1150.3	2835.7	5591.5	6366.5	6289.4
40°	174.1	174.1	178.4	194.1	229.8	462.4	1076.1	2824.3	5849.8	6743.2	6517.7
42.5°	162.7	162.7	169.8	179.8	218.4	426.7	1020.4	2808.6	6066.8	6974.4	6651.9
45°	147.0	151.3	162.7	172.7	221.2	402.5	979.0	2748.7	6141.0	6971.6	6587.7
47.5°	135.6	141.3	152.7	167.0	199.8	395.3	950.5	2695.9	6115.3	6800.3	6386.4
50°	122.7	129.9	145.6	169.8	169.8	381.0	920.5	2743.0	6096.7	6667.6	6193.8
52°	114.2	119.9	139.9	165.5	148.4	351.1	901.9	2834.3	6172.4	6650.5	6108.1
52.5°	112.7	117.0	135.6	162.7	141.3	345.4	889.1	2855.7	6196.6	6607.6	6166.7
55°	99.9	105.6	124.2	127.0	115.6	284.0	847.7	2904.2	6076.7	6523.4	6111.0
57.5°	94.2	97.0	109.9	104.2	99.9	214.1	729.3	2828.6	5397.4	5794.2	5685.7
60°	87.1	89.9	102.8	81.3	84.2	149.8	548.0	2456.1	4334.2	4828.0	5023.5
62.5°	84.2	82.8	97.0	65.6	71.4	108.5	386.8	1996.6	3339.5	3974.6	4312.8
65°	74.2	72.8	69.9	55.7	61.4	84.2	231.2	1303.0	2353.3	3007.0	3192.5
67.5°	57.1	59.9	51.4	44.2	51.4	65.6	128.4	583.7	1234.5	1803.9	1953.7
70°	40.0	42.8	41.4	38.5	45.7	54.2	74.2	199.8	510.9	947.6	1044.7
72.5°	24.3	30.0	31.4	32.8	40.0	47.1	52.8	64.2	135.6	335.4	416.7
75°	14.3	20.0	24.3	28.5	32.8	40.0	44.2	45.7	47.1	62.8	101.3
77.5°	10.0	14.3	21.4	27.1	32.8	40.0	47.1	49.9	47.1	44.2	47.1
80°	8.6	14.3	20.0	25.7	34.3	41.4	47.1	47.1	45.7	40.0	42.8
82.5°	8.6	14.3	21.4	27.1	32.8	40.0	45.7	47.1	42.8	40.0	41.4
85°	10.0	15.7	22.8	28.5	35.7	32.8	30.0	24.3	22.8	18.6	20.0
87.5°	10.0	14.3	14.3	15.7	17.1	17.1	17.1	15.7	12.8	11.4	11.4
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°	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8	3647.8
2.5°	3986.0	4100.2	4095.9	4098.7	4081.6	3966.0	3910.4	3769.1	3809.0	3791.9
5°	4138.7	4251.4	4348.5	4337.1	4205.8	4048.8	3816.2	3596.4	3536.4	3448.0
7.5°	3986.0	4257.1	4347.1	4334.2	4140.1	3938.9	3567.8	3348.1	3243.9	3185.4
10°	3743.4	4057.3	4168.7	4191.5	4060.2	3754.8	3413.7	3061.2	3005.5	2904.2
12.5°	3604.9	3833.3	3901.8	3963.2	3917.5	3689.1	3296.7	2958.5	2881.4	2814.3
15°	3492.2	3627.8	3656.3	3726.3	3753.4	3630.6	3358.0	3069.8	2880.0	2872.8
17.5°	3596.4	3540.7	3436.5	3457.9	3543.6	3632.1	3516.5	3289.5	3105.4	3082.6
20°	3769.1	3523.6	3288.1	3340.9	3412.3	3683.4	3756.2	3596.4	3490.8	3432.3
22.5°	3967.4	3553.6	3241.0	3266.7	3402.3	3799.0	4144.4	4055.9	3859.0	3774.8
25°	4334.2	3636.3	3278.1	3295.3	3480.8	3960.3	4495.5	4561.1	4444.1	4427.0
27.5°	4692.4	3850.4	3359.5	3320.9	3520.7	4117.3	4708.1	5060.6	4855.1	4815.2
30°	4875.1	4024.5	3480.8	3415.1	3686.3	4212.9	4836.6	5386.0	5206.2	5187.6
32.5°	5154.8	4182.9	3575.0	3490.8	3779.1	4331.4	5076.3	5741.4	5567.3	5474.5
35°	5271.8	4355.6	3781.9	3683.4	4044.5	4496.9	5199.1	6058.2	6004.0	5914.0
37.5°	5497.3	4541.1	4025.9	4020.2	4365.6	4712.4	5420.3	6489.2	6479.2	6323.6
40°	5515.9	4743.8	4411.3	4591.1	4862.2	5087.7	5614.4	6609.1	6771.8	6666.1
42.5°	5544.4	5099.2	5077.7	5226.2	5458.8	5410.3	5621.5	6637.6	6885.9	6823.1
45°	5557.3	5454.5	5755.6	6029.6	6126.7	5832.7	5554.4	6583.4	6945.9	6788.9
47.5°	5454.5	5759.9	6303.7	6833.1	6861.7	6092.4	5525.9	6527.7	6981.5	6877.4
50°	5468.8	5951.2	6777.5	7251.3	7147.1	6322.2	5481.6	6493.5	6963.0	6893.1
52°	5434.5	5955.4	6844.5	7242.7	7169.9	6195.2	5406.0	6362.2	6945.9	6995.8
52.5°	5473.1	5929.7	6774.6	7248.4	7154.2	6258.0	5396.0	6435.0	6955.9	6854.5
55°	5340.3	5624.3	6365.0	6566.2	6552.0	5680.0	5089.2	6193.8	6694.7	6696.1
57.5°	4826.6	4875.1	4992.1	4987.8	4922.2	4465.5	4352.8	5695.7	5968.3	5819.9
60°	4252.9	3569.3	3253.9	3125.4	3052.6	2978.4	3850.4	5210.5	5236.2	5173.4
62.5°	3674.9	2474.7	2055.1	2019.4	2036.5	2307.7	3722.0	5017.8	4863.7	4728.1
65°	2965.6	1803.9	1492.8	1445.7	1612.7	1905.2	3012.7	3847.6	3610.7	3497.9
67.5°	1862.4	1315.8	1009.0	920.5	1121.7	1311.5	1979.4	2417.6	2152.1	1996.6
70°	1104.6	735.0	456.7	409.6	461.0	699.3	1108.9	1205.9	997.6	917.6
72.5°	435.3	269.7	127.0	108.5	112.7	245.5	408.2	398.2	301.1	268.3
75°	117.0	81.3	44.2	35.7	30.0	45.7	65.6	42.8	15.7	20.0
77.5°	54.2	48.5	38.5	30.0	22.8	17.1	8.6	2.9	2.9	1.4
80°	47.1	41.4	35.7	30.0	22.8	14.3	7.1	1.4	1.4	1.4
82.5°	44.2	38.5	32.8	27.1	21.4	14.3	7.1	1.4	0.0	0.0
85°	18.6	24.3	27.1	25.7	22.8	14.3	7.1	1.4	0.0	0.0
87.5°	10.0	8.6	7.1	5.7	4.3	2.9	2.9	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)