

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: P530187

Luminaire Tested: **GALN-SA5B-827-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530187  
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-SA5B-827-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 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: 11581 lumens  
Efficiency: N/A  
Efficacy: 56.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G1

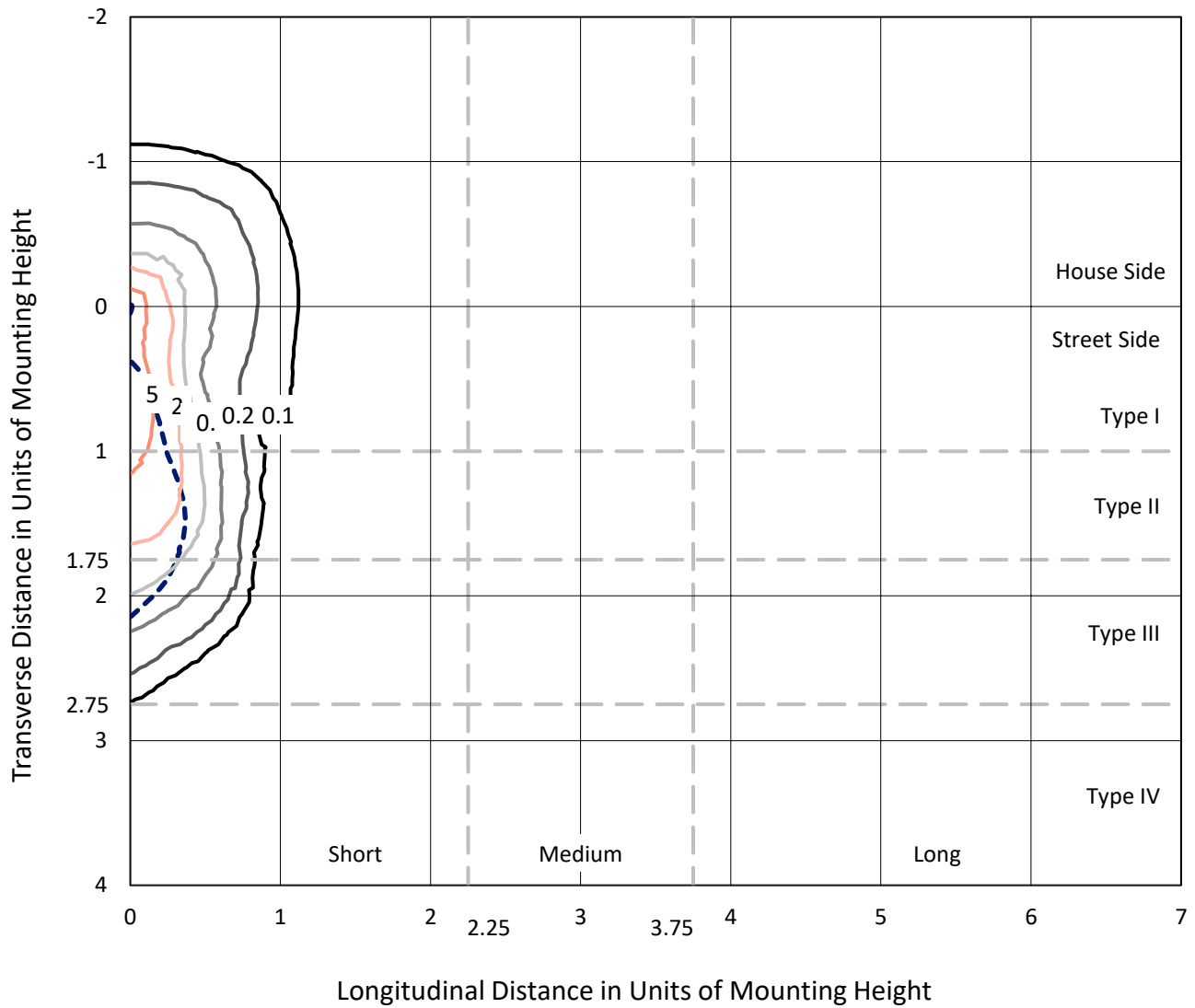
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

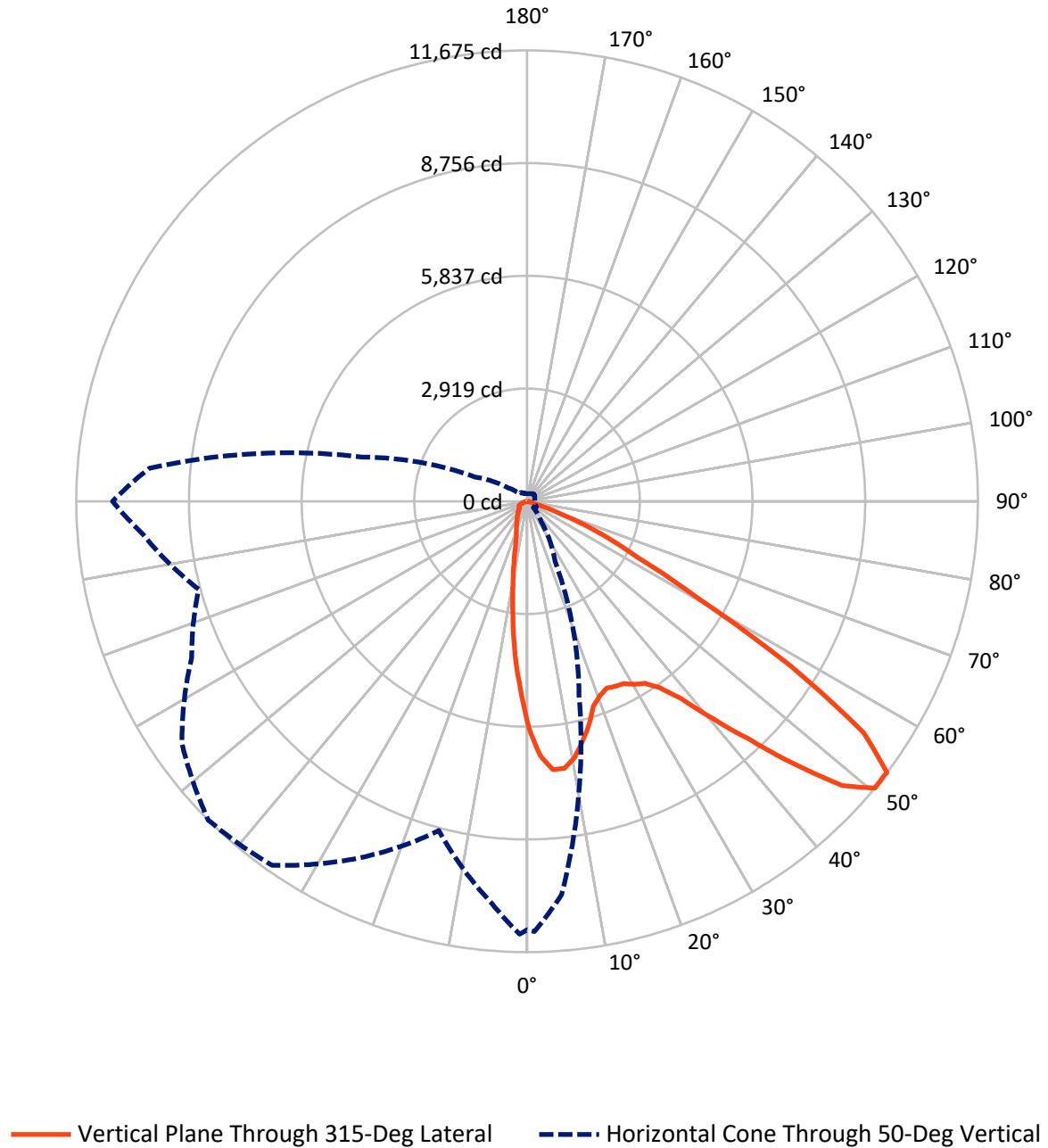
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	2319.7	0.0	2319.7
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	9261.3	0.0	9261.3
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	11581.0	0.0	11581.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	428.1	3.7
10°-20°	850.8	7.3
20°-30°	1278.1	11.0
30°-40°	1918.5	16.6
40°-50°	2696.3	23.3
50°-60°	2908.4	25.1
60°-70°	1350.4	11.7
70°-80°	127.1	1.1
80°-90°	23.4	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°	11581.0	100.0
0°-180°	11581.0	100.0

**Coefficient of Utilization**

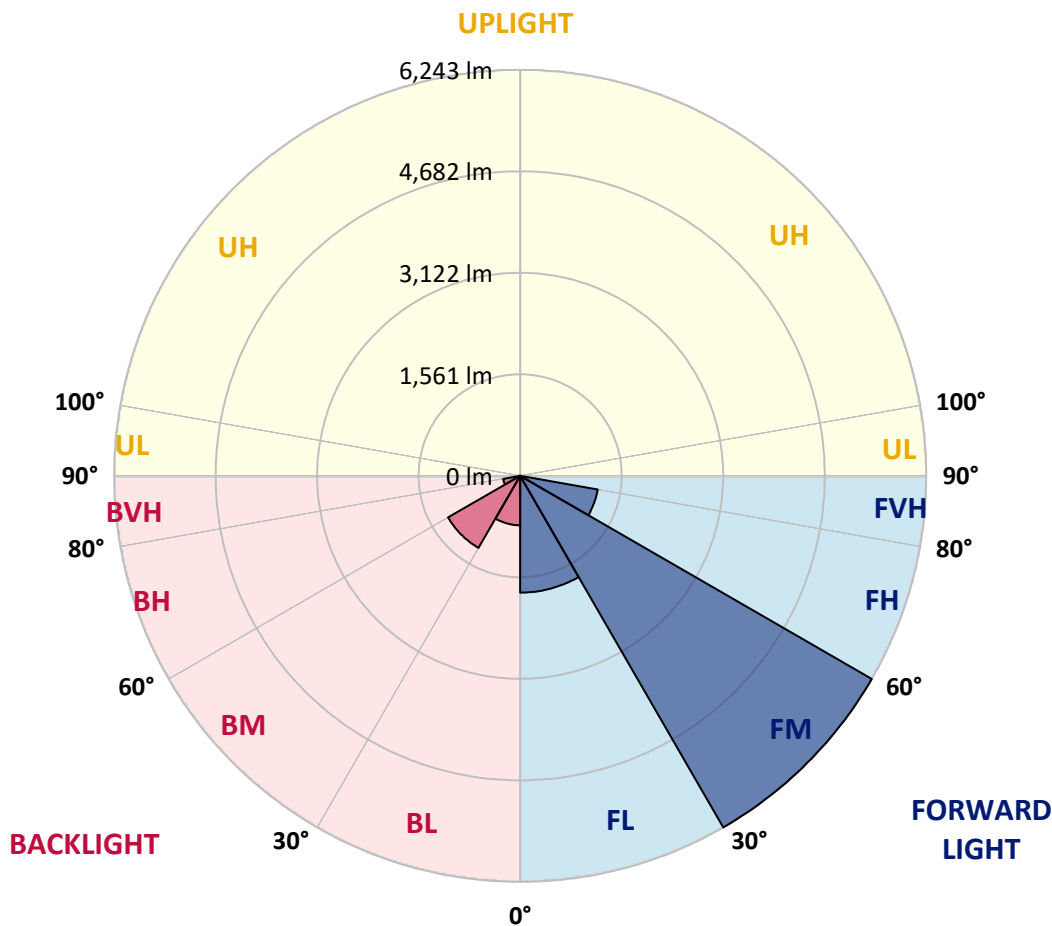


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1796.7	15.5			
FM (30°-60°)	6243.0	53.9			
FH (60°-80°)	1211.1	10.5			G1/1800
FVH (80°-90°)	10.6	0.1			G1/100
BL (0°-30°)	760.3	6.6	B2/1000		
BM (30°-60°)	1280.1	11.1	B2/2500		
BH (60°-80°)	266.4	2.3	B1/500		G1/500
BVH (80°-90°)	12.9	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°	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0
2.5°	6105.1	6010.9	5891.4	5792.6	5645.6	5349.1	5268.7	5172.2	5091.8	4983.8	4832.2
5°	5551.3	5521.5	5466.3	5094.1	4825.3	4466.8	4172.7	4048.6	3885.5	3752.2	3655.7
7.5°	5128.6	5009.1	4834.4	4459.9	4030.2	3646.5	3320.2	3129.5	2913.5	2840.0	2709.0
10°	4675.9	4703.5	4446.1	3919.9	3400.7	3090.5	2888.3	2704.4	2509.1	2380.5	2194.3
12.5°	4531.1	4441.5	4243.9	3593.7	3150.2	2860.7	2614.8	2387.4	2180.6	1973.8	1794.5
15°	4625.4	4487.5	4211.8	3524.7	2957.2	2596.4	2288.6	1980.7	1789.9	1525.7	1339.6
17.5°	4963.1	4852.8	4482.9	3598.3	2858.4	2343.7	1886.4	1569.4	1277.5	1038.6	944.4
20°	5526.1	5369.8	4905.7	3692.5	2711.3	2038.1	1530.3	1139.7	864.0	762.9	710.0
22.5°	6077.5	5992.5	5406.6	3874.0	2580.4	1767.0	1148.9	767.4	645.7	627.3	592.8
25°	7127.6	6872.5	6171.7	4202.6	2479.3	1511.9	866.2	618.1	546.9	533.1	537.7
27.5°	7752.6	7538.9	6879.4	4420.9	2366.7	1316.6	733.0	567.5	519.3	489.4	477.9
30°	8352.3	8104.1	7231.0	4549.5	2125.4	1109.8	650.3	544.6	533.1	489.4	475.6
32.5°	8814.1	8570.6	7738.8	4742.5	2026.6	976.5	535.4	425.1	395.2	390.6	432.0
35°	9521.8	9262.2	8173.1	4848.2	1950.8	907.6	464.1	379.1	344.7	330.9	333.2
37.5°	10181.3	10004.4	8575.2	4889.6	1870.4	886.9	415.9	340.1	310.2	301.0	298.7
40°	10732.7	10337.5	8956.6	4933.3	1835.9	847.9	386.0	310.2	289.5	275.7	275.7
42.5°	10985.5	10583.4	9384.0	4908.0	1826.7	785.8	386.0	284.9	268.8	255.0	252.8
45°	10930.4	10767.2	9574.7	4896.5	1826.7	723.8	351.6	278.0	255.0	236.7	232.1
47.5°	11072.8	10859.1	9813.7	4944.7	1789.9	680.1	296.4	291.8	241.3	218.3	213.7
50°	11098.1	11139.4	10229.5	5195.2	1709.5	625.0	232.1	287.2	232.1	197.6	193.0
52°	11263.5	11006.2	10355.9	5328.5	1624.5	583.6	195.3	245.9	222.9	183.8	179.2
52.5°	11036.1	11203.8	10385.8	5376.7	1633.7	556.1	188.4	241.3	218.3	183.8	172.3
55°	10781.0	10941.8	10264.0	5480.1	1498.1	436.6	147.1	174.6	197.6	160.8	153.9
57.5°	9370.2	9533.3	8919.8	5018.3	1220.1	307.9	121.8	131.0	174.6	149.4	142.5
60°	8329.3	8212.1	7486.0	4186.5	866.2	172.3	96.5	101.1	190.7	137.9	135.6
62.5°	7612.4	7362.0	6256.7	3232.9	528.5	114.9	75.8	78.1	147.1	128.7	128.7
65°	5631.8	5351.4	4156.6	1955.4	259.6	80.4	57.4	62.0	91.9	110.3	110.3
67.5°	3214.5	3106.5	2008.2	882.3	108.0	50.6	43.7	48.3	71.2	89.6	85.0
70°	1477.4	1325.8	772.0	186.1	50.6	34.5	34.5	39.1	57.4	66.6	62.0
72.5°	432.0	409.0	188.4	29.9	20.7	20.7	23.0	29.9	43.7	50.6	46.0
75°	32.2	20.7	13.8	9.2	9.2	13.8	18.4	29.9	43.7	48.3	39.1
77.5°	2.3	4.6	2.3	2.3	6.9	13.8	20.7	36.8	57.4	59.7	43.7
80°	2.3	2.3	0.0	2.3	6.9	13.8	23.0	41.4	64.3	68.9	36.8
82.5°	0.0	0.0	0.0	2.3	9.2	18.4	27.6	43.7	59.7	73.5	39.1
85°	0.0	0.0	0.0	2.3	13.8	25.3	32.2	11.5	6.9	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°	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0
2.5°	4940.1	4880.4	4857.4	4878.1	4871.2	4864.3	4990.7	4963.1	4958.5	4999.9	4990.7
5°	3708.6	3602.9	3892.4	3775.2	3897.0	3970.5	3984.3	3991.2	4076.2	3986.6	4103.8
7.5°	2642.4	2670.0	2667.7	2745.8	2886.0	3010.0	3083.6	3026.1	3021.5	3010.0	2959.5
10°	2111.6	2063.4	2054.2	2035.8	2079.5	2185.2	2274.8	2203.5	2153.0	2221.9	2201.2
12.5°	1725.6	1659.0	1622.2	1548.7	1551.0	1622.2	1622.2	1622.2	1672.8	1711.8	1741.7
15°	1323.5	1268.4	1268.4	1194.8	1178.7	1181.0	1217.8	1222.4	1302.8	1325.8	1337.3
17.5°	926.0	896.1	930.6	960.5	942.1	946.7	960.5	965.1	976.5	967.3	990.3
20°	712.3	707.7	716.9	769.7	808.8	831.8	815.7	792.7	778.9	746.8	746.8
22.5°	604.3	613.5	629.6	673.2	723.8	737.6	719.2	666.3	625.0	620.4	622.7
25°	537.7	546.9	572.1	599.7	627.3	650.3	631.9	592.8	569.8	549.2	549.2
27.5°	496.3	500.9	514.7	535.4	558.4	576.7	569.8	549.2	523.9	514.7	494.0
30°	464.1	471.0	487.1	491.7	512.4	521.6	510.1	505.5	489.4	477.9	471.0
32.5°	448.1	445.8	457.3	461.8	464.1	471.0	457.3	464.1	461.8	443.5	436.6
35°	337.8	356.1	386.0	411.3	418.2	427.4	425.1	415.9	390.6	369.9	344.7
37.5°	303.3	314.8	330.9	351.6	379.1	390.6	386.0	363.0	333.2	319.4	314.8
40°	280.3	287.2	301.0	314.8	342.4	363.0	347.0	326.3	303.3	291.8	284.9
42.5°	259.6	261.9	268.8	282.6	303.3	335.5	307.9	280.3	271.1	264.2	259.6
45°	236.7	236.7	245.9	252.8	275.7	305.6	278.0	252.8	248.2	243.6	241.3
47.5°	218.3	220.6	225.2	234.4	252.8	273.4	255.0	234.4	222.9	220.6	216.0
50°	195.3	197.6	206.8	216.0	239.0	250.5	239.0	216.0	204.5	197.6	197.6
52°	176.9	183.8	193.0	211.4	227.5	245.9	232.1	206.8	193.0	186.1	181.5
52.5°	174.6	179.2	188.4	209.1	227.5	243.6	229.8	204.5	188.4	183.8	179.2
55°	156.2	163.1	179.2	204.5	225.2	243.6	225.2	202.2	179.2	167.7	163.1
57.5°	149.4	153.9	174.6	206.8	222.9	243.6	225.2	202.2	179.2	158.5	153.9
60°	142.5	151.7	174.6	199.9	220.6	245.9	227.5	199.9	174.6	149.4	149.4
62.5°	135.6	142.5	172.3	195.3	211.4	236.7	218.3	195.3	167.7	142.5	140.2
65°	117.2	128.7	151.7	163.1	181.5	204.5	186.1	170.0	147.1	126.4	124.1
67.5°	89.6	94.2	112.6	126.4	137.9	158.5	149.4	128.7	112.6	96.5	96.5
70°	62.0	66.6	80.4	87.3	98.8	110.3	103.4	87.3	75.8	66.6	64.3
72.5°	43.7	46.0	50.6	55.1	59.7	64.3	62.0	50.6	43.7	41.4	39.1
75°	34.5	39.1	41.4	39.1	36.8	34.5	34.5	29.9	25.3	23.0	23.0
77.5°	34.5	36.8	34.5	29.9	25.3	23.0	20.7	18.4	13.8	11.5	13.8
80°	29.9	29.9	29.9	25.3	23.0	20.7	18.4	16.1	13.8	11.5	11.5
82.5°	32.2	32.2	29.9	25.3	25.3	20.7	20.7	18.4	16.1	11.5	11.5
85°	0.0	0.0	0.0	4.6	11.5	20.7	20.7	18.4	16.1	13.8	13.8
87.5°	0.0	0.0	0.0	0.0	2.3	4.6	9.2	11.5	13.8	13.8	13.8
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°	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0
2.5°	5073.4	5160.7	5326.2	5491.6	5592.7	5712.2	5928.2	6043.1	6192.4	6265.9	6410.7
5°	4087.7	4294.5	4368.0	4556.4	4758.6	4960.8	5282.5	5636.4	5930.5	6132.7	6394.6
7.5°	2982.5	3030.7	3315.6	3442.0	3772.9	4140.5	4579.4	5025.2	5397.4	5728.3	5928.2
10°	2235.7	2412.6	2591.9	2833.1	3099.7	3478.8	3899.3	4391.0	4873.5	5204.4	5457.1
12.5°	1796.8	1937.0	2176.0	2435.6	2764.2	3014.6	3437.4	3924.5	4549.5	4873.5	5206.7
15°	1360.3	1539.5	1810.6	2079.5	2426.4	2690.7	3118.0	3731.5	4535.7	4981.5	5268.7
17.5°	1008.7	1130.5	1374.0	1675.1	2028.9	2401.1	2977.9	3710.9	4689.7	5220.5	5516.9
20°	772.0	813.4	967.3	1236.2	1619.9	2107.0	2750.4	3800.5	5144.6	5801.8	6102.8
22.5°	625.0	643.4	703.1	889.2	1261.5	1849.7	2642.4	3862.5	5657.0	6498.0	6900.1
25°	544.6	540.0	579.0	659.5	985.7	1608.4	2504.5	4096.9	6284.3	7316.0	7676.8
27.5°	496.3	496.3	514.7	572.1	818.0	1452.2	2417.2	4264.6	6916.2	8035.2	8230.5
30°	471.0	475.6	528.5	546.9	680.1	1266.1	2272.5	4434.6	7520.5	8494.7	8763.6
32.5°	436.6	418.2	406.7	452.7	572.1	1098.3	2127.7	4505.9	8009.9	9057.7	9287.5
35°	335.5	326.3	340.1	374.5	491.7	955.9	1966.9	4586.3	8572.9	9710.3	9756.2
37.5°	303.3	301.0	310.2	340.1	413.6	831.8	1852.0	4565.6	9002.6	10250.2	10126.1
40°	280.3	280.3	287.2	312.5	369.9	744.5	1732.5	4547.2	9418.4	10856.8	10493.8
42.5°	261.9	261.9	273.4	289.5	351.6	687.0	1642.9	4522.0	9767.7	11229.1	10709.8
45°	236.7	243.6	261.9	278.0	356.1	648.0	1576.3	4425.4	9887.2	11224.5	10606.4
47.5°	218.3	227.5	245.9	268.8	321.7	636.5	1530.3	4340.4	9845.8	10948.7	10282.4
50°	197.6	209.1	234.4	273.4	273.4	613.5	1482.0	4416.3	9816.0	10735.0	9972.2
52°	183.8	193.0	225.2	266.5	239.0	565.2	1452.2	4563.3	9937.7	10707.5	9834.3
52.5°	181.5	188.4	218.3	261.9	227.5	556.1	1431.5	4597.8	9976.8	10638.5	9928.5
55°	160.8	170.0	199.9	204.5	186.1	457.3	1364.9	4675.9	9783.8	10503.0	9838.9
57.5°	151.7	156.2	176.9	167.7	160.8	344.7	1174.1	4554.1	8690.1	9328.8	9154.2
60°	140.2	144.8	165.4	131.0	135.6	241.3	882.3	3954.4	6978.2	7773.3	8088.0
62.5°	135.6	133.3	156.2	105.7	114.9	174.6	622.7	3214.5	5376.7	6399.2	6943.8
65°	119.5	117.2	112.6	89.6	98.8	135.6	372.2	2097.8	3789.0	4841.3	5140.0
67.5°	91.9	96.5	82.7	71.2	82.7	105.7	206.8	939.8	1987.5	2904.3	3145.6
70°	64.3	68.9	66.6	62.0	73.5	87.3	119.5	321.7	822.6	1525.7	1681.9
72.5°	39.1	48.3	50.6	52.8	64.3	75.8	85.0	103.4	218.3	540.0	670.9
75°	23.0	32.2	39.1	46.0	52.8	64.3	71.2	73.5	75.8	101.1	163.1
77.5°	16.1	23.0	34.5	43.7	52.8	64.3	75.8	80.4	75.8	71.2	75.8
80°	13.8	23.0	32.2	41.4	55.1	66.6	75.8	75.8	73.5	64.3	68.9
82.5°	13.8	23.0	34.5	43.7	52.8	64.3	73.5	75.8	68.9	64.3	66.6
85°	16.1	25.3	36.8	46.0	57.4	52.8	48.3	39.1	36.8	29.9	32.2
87.5°	16.1	23.0	23.0	25.3	27.6	27.6	27.6	25.3	20.7	18.4	18.4
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°	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0	5873.0
2.5°	6417.6	6601.4	6594.5	6599.1	6571.5	6385.4	6295.8	6068.3	6132.7	6105.1
5°	6663.4	6845.0	7001.2	6982.8	6771.4	6518.7	6144.2	5790.3	5693.8	5551.3
7.5°	6417.6	6854.2	6998.9	6978.2	6665.7	6341.8	5744.4	5390.5	5222.8	5128.6
10°	6027.0	6532.5	6711.7	6748.5	6537.1	6045.4	5496.2	4928.7	4839.0	4675.9
12.5°	5804.1	6171.7	6282.0	6380.8	6307.3	5939.7	5307.8	4763.2	4639.1	4531.1
15°	5622.6	5840.9	5886.8	5999.4	6043.1	5845.5	5406.6	4942.4	4636.8	4625.4
17.5°	5790.3	5700.7	5533.0	5567.4	5705.3	5847.8	5661.6	5296.3	4999.9	4963.1
20°	6068.3	5673.1	5294.0	5379.0	5493.9	5930.5	6047.7	5790.3	5620.3	5526.1
22.5°	6387.7	5721.4	5218.2	5259.5	5477.8	6116.6	6672.6	6530.2	6213.1	6077.5
25°	6978.2	5854.6	5277.9	5305.5	5604.2	6376.2	7237.9	7343.6	7155.2	7127.6
27.5°	7555.0	6199.3	5408.9	5346.8	5668.5	6629.0	7580.2	8147.8	7816.9	7752.6
30°	7849.1	6479.6	5604.2	5498.5	5935.1	6782.9	7787.0	8671.7	8382.2	8352.3
32.5°	8299.4	6734.7	5755.8	5620.3	6084.4	6973.6	8173.1	9243.8	8963.5	8814.1
35°	8487.9	7012.7	6089.0	5930.5	6511.8	7240.2	8370.7	9753.9	9666.6	9521.8
37.5°	8850.9	7311.4	6481.9	6472.7	7028.8	7587.1	8726.8	10447.8	10431.7	10181.3
40°	8880.8	7637.7	7102.3	7391.8	7828.4	8191.4	9039.3	10640.8	10902.8	10732.7
42.5°	8926.7	8209.8	8175.4	8414.3	8788.9	8710.7	9050.8	10686.8	11086.6	10985.5
45°	8947.4	8782.0	9266.8	9708.0	9864.2	9390.9	8942.8	10599.5	11183.1	10930.4
47.5°	8782.0	9273.7	10149.1	11001.6	11047.5	9809.1	8896.9	10509.9	11240.6	11072.8
50°	8804.9	9581.6	10912.0	11674.8	11507.1	10179.0	8825.6	10454.7	11210.7	11098.1
52°	8749.8	9588.5	11020.0	11661.0	11543.9	9974.5	8703.8	10243.3	11183.1	11263.5
52.5°	8811.8	9547.1	10907.4	11670.2	11518.6	10075.6	8687.8	10360.5	11199.2	11036.1
55°	8598.1	9055.4	10247.9	10571.9	10548.9	9145.0	8193.7	9972.2	10778.7	10781.0
57.5°	7771.0	7849.1	8037.5	8030.6	7924.9	7189.6	7008.1	9170.3	9609.2	9370.2
60°	6847.3	5746.7	5238.9	5032.1	4914.9	4795.4	6199.3	8389.1	8430.4	8329.3
62.5°	5916.7	3984.3	3308.7	3251.3	3278.9	3715.4	5992.5	8078.9	7830.7	7612.4
65°	4774.7	2904.3	2403.4	2327.6	2596.4	3067.5	4850.5	6194.7	5813.3	5631.8
67.5°	2998.6	2118.5	1624.5	1482.0	1806.0	2111.6	3187.0	3892.4	3465.0	3214.5
70°	1778.5	1183.3	735.3	659.5	742.2	1125.9	1785.3	1941.6	1606.1	1477.4
72.5°	700.8	434.3	204.5	174.6	181.5	395.2	657.2	641.1	484.8	432.0
75°	188.4	131.0	71.2	57.4	48.3	73.5	105.7	68.9	25.3	32.2
77.5°	87.3	78.1	62.0	48.3	36.8	27.6	13.8	4.6	4.6	2.3
80°	75.8	66.6	57.4	48.3	36.8	23.0	11.5	2.3	2.3	2.3
82.5°	71.2	62.0	52.8	43.7	34.5	23.0	11.5	2.3	0.0	0.0
85°	29.9	39.1	43.7	41.4	36.8	23.0	11.5	2.3	0.0	0.0
87.5°	16.1	13.8	11.5	9.2	6.9	4.6	4.6	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)