

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: P527221

Luminaire Tested: **GALN-SA2B-727-U-SLL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527221  
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-727-U-SLL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 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: 5291 lumens  
Efficiency: N/A  
Efficacy: 64.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G0

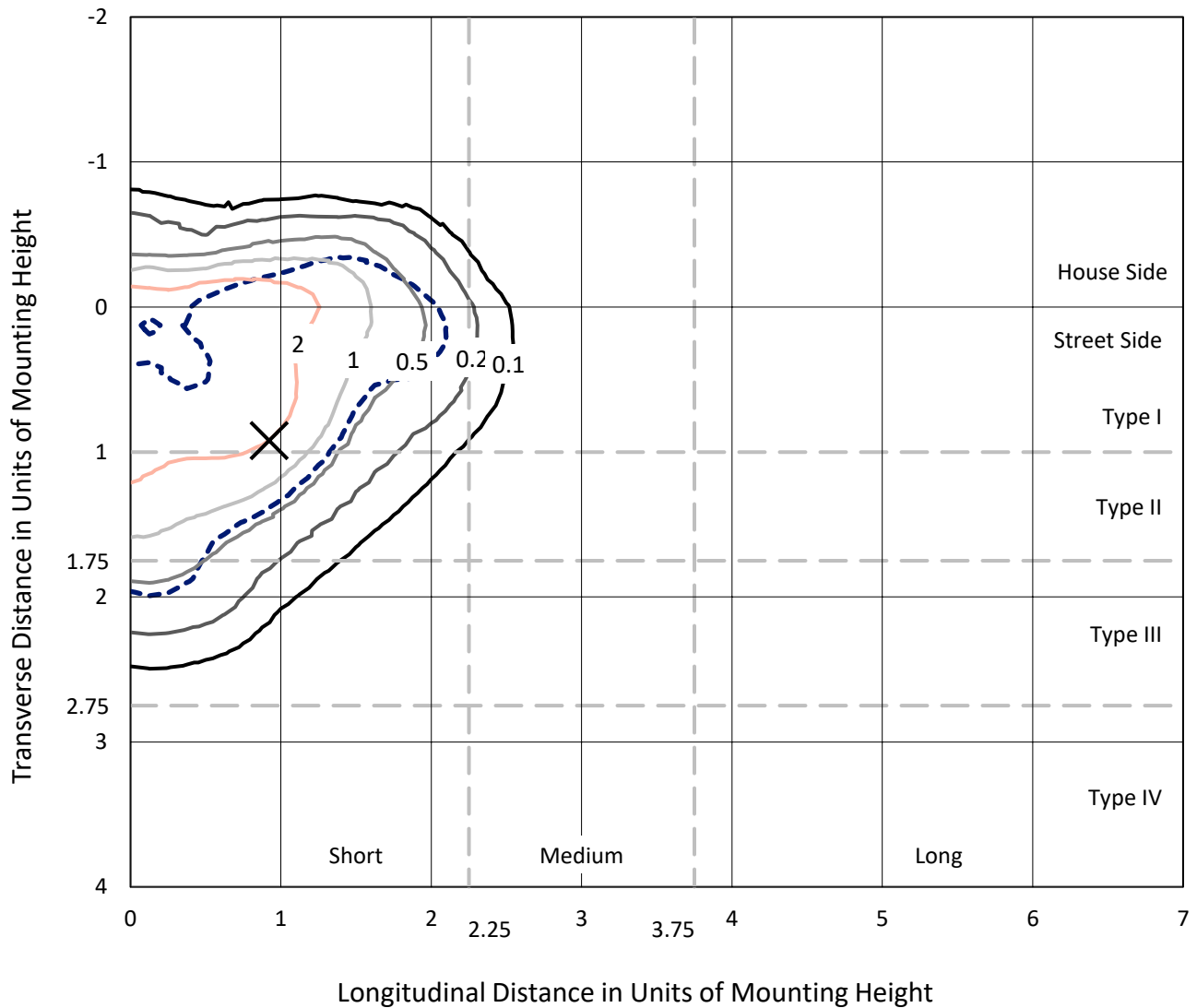
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

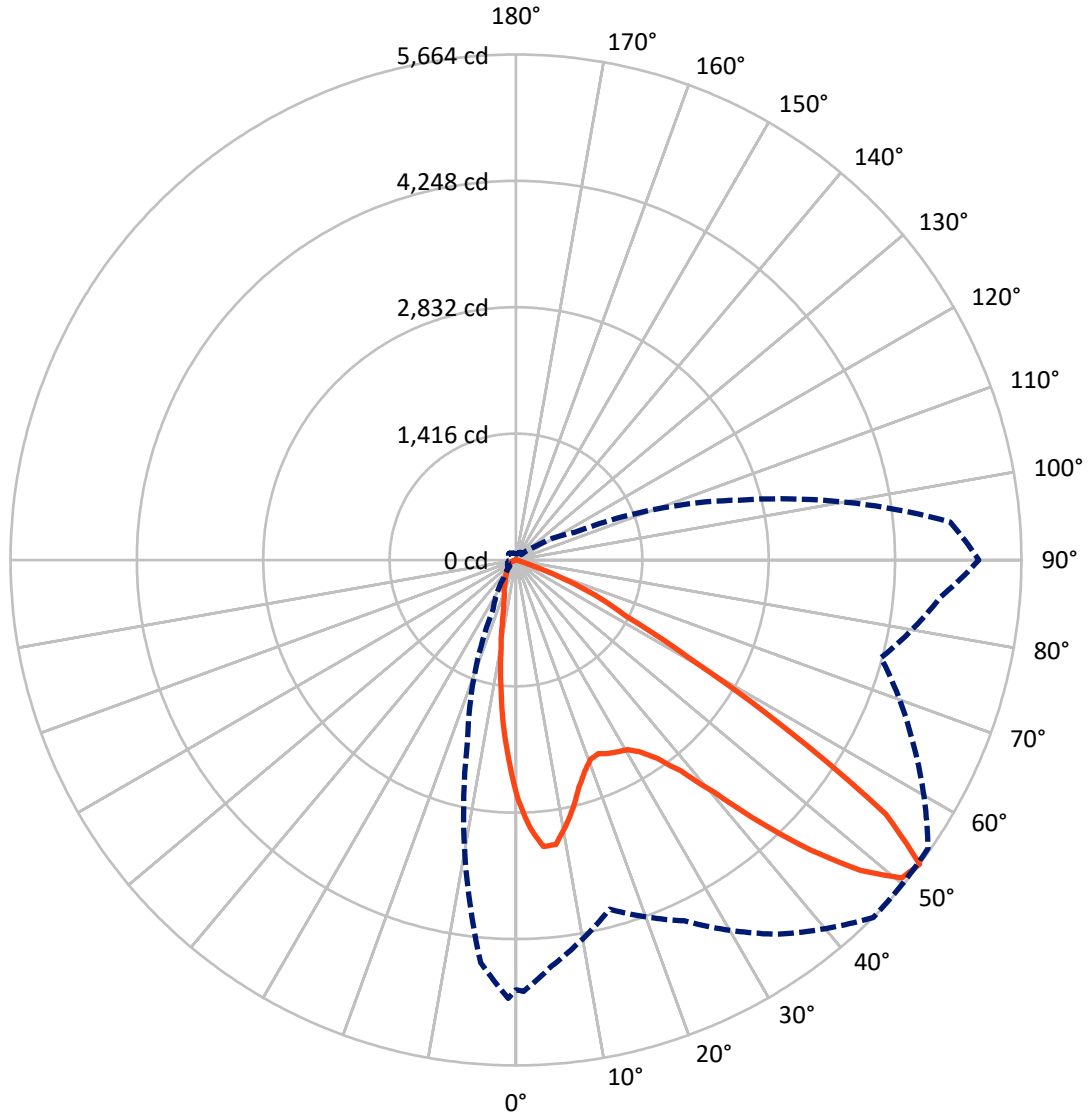
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	1073.8	0.0	1073.8
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	4217.2	0.0	4217.2
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	5291.0	0.0	5291.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.7	3.7
10°-20°	386.0	7.3
20°-30°	587.4	11.1
30°-40°	878.0	16.6
40°-50°	1250.4	23.6
50°-60°	1344.1	25.4
60°-70°	595.6	11.3
70°-80°	48.2	0.9
80°-90°	5.6	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°	5291.0	100.0
0°-180°	5291.0	100.0

**Coefficient of Utilization**



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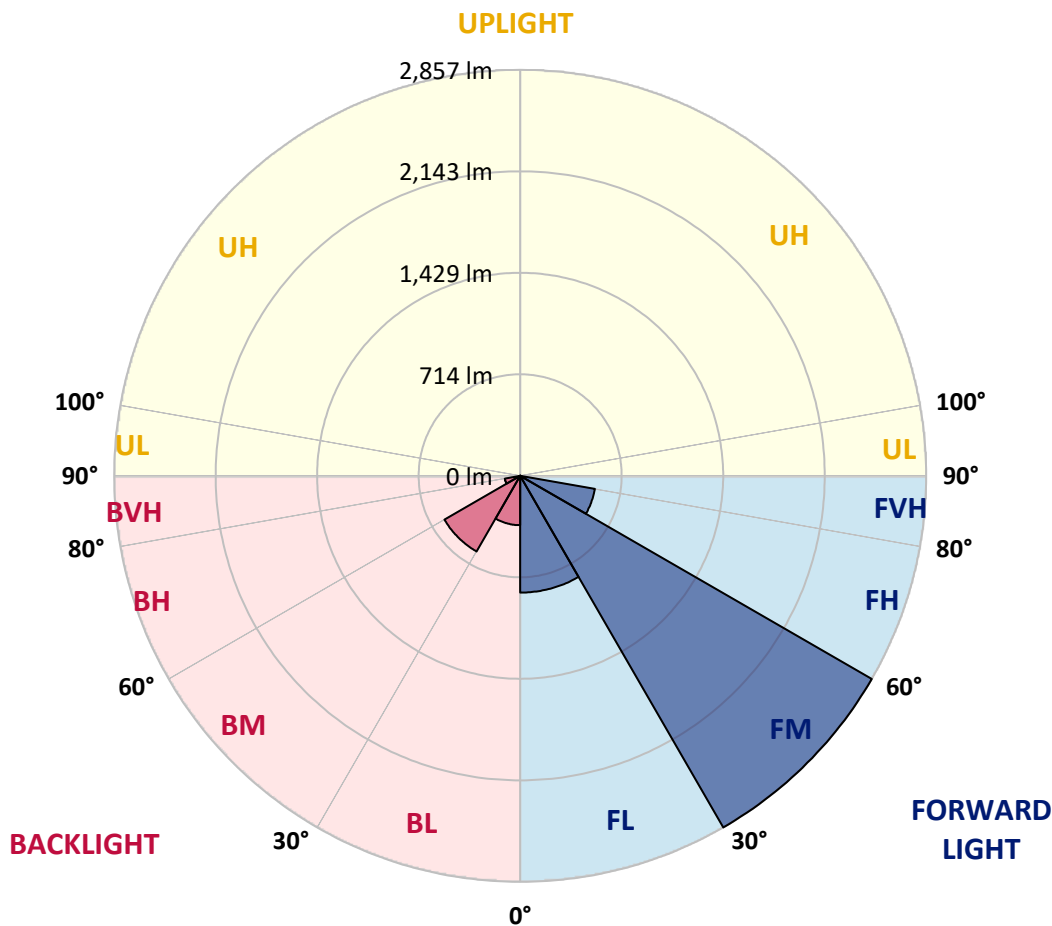
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	821.8	15.5			
FM (30°-60°)	2857.3	54.0			
FH (60°-80°)	533.9	10.1			G0/660
FVH (80°-90°)	4.2	0.1			G0/10
BL (0°-30°)	347.3	6.6	B1/500		
BM (30°-60°)	615.2	11.6	B1/1000		
BH (60°-80°)	109.9	2.1	B0/110		G0/110
BVH (80°-90°)	1.5	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-G0**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8
2.5°	2838.9	2847.2	2893.0	2950.2	2980.4	3049.1	3001.2	3013.7	2987.7	2896.1	2824.3
5°	2752.5	2751.5	2809.7	2951.3	3085.5	3221.8	3226.0	3153.2	3025.2	2884.7	2683.8
7.5°	2492.3	2532.9	2593.3	2819.1	3067.8	3169.8	3218.7	3133.4	2936.7	2735.9	2518.4
10°	2295.7	2316.5	2418.5	2691.1	2873.2	3009.5	3039.7	2990.8	2839.9	2589.1	2345.6
12.5°	2182.2	2192.6	2312.3	2541.3	2733.8	2834.7	2849.3	2872.2	2764.0	2528.8	2236.3
15°	2183.3	2191.6	2352.9	2544.4	2620.3	2593.3	2641.2	2640.1	2686.9	2517.3	2327.9
17.5°	2340.4	2349.8	2495.5	2590.2	2556.9	2493.4	2490.3	2538.1	2637.0	2659.9	2466.3
20°	2611.0	2632.8	2740.0	2734.8	2547.5	2419.5	2384.1	2420.5	2650.5	2780.6	2745.2
22.5°	2975.2	3005.4	3080.3	2936.7	2590.2	2369.5	2358.1	2428.9	2740.0	3050.1	3061.6
25°	3397.7	3448.7	3485.1	3300.9	2742.1	2455.9	2401.8	2523.6	2860.7	3342.6	3464.3
27.5°	3677.6	3730.7	3722.4	3459.1	2844.1	2478.8	2433.0	2546.5	2965.8	3412.3	3674.5
30°	3896.2	3928.4	3986.7	3544.4	2946.1	2543.3	2465.3	2643.2	3000.2	3533.0	3928.4
32.5°	4151.1	4173.0	4177.1	3695.3	3103.2	2624.5	2565.2	2764.0	3152.1	3648.5	4153.2
35°	4408.2	4440.4	4372.8	3881.6	3200.0	2775.4	2731.7	2973.1	3273.9	3768.2	4400.9
37.5°	4687.1	4703.7	4547.6	3958.6	3338.4	3021.0	2997.1	3198.9	3485.1	3984.6	4675.6
40°	4921.2	4936.8	4733.9	4053.3	3484.1	3364.4	3425.8	3629.8	3772.3	4125.1	4813.0
42.5°	5051.3	5087.7	4796.3	4001.3	3776.5	3753.6	4026.3	4098.1	4105.3	4164.7	4935.8
45°	5086.7	5070.0	4693.3	4043.9	4032.5	4393.6	4641.3	4736.0	4436.3	4237.5	4967.0
47.5°	4923.3	4945.1	4541.4	4006.5	4368.6	4878.5	5199.1	5374.9	4682.9	4174.0	4890.0
50°	4791.1	4763.0	4492.5	3979.4	4459.2	5107.5	5601.8	5641.3	4909.8	4252.1	4805.7
52.5°	4817.1	4834.8	4570.5	4051.2	4461.2	5121.0	5664.2	5637.2	4917.0	4234.4	4775.5
55°	4872.3	4794.3	4537.2	3893.1	4162.6	4743.3	5027.4	4985.7	4538.3	4046.0	4701.6
57.5°	4204.2	4324.9	4171.9	3475.8	3416.4	3573.6	3568.4	3696.4	3385.2	3482.0	4280.2
60°	3412.3	3433.1	3490.3	2973.1	2364.3	2310.2	2235.3	2154.1	2278.0	2977.3	3893.1
62.5°	3001.2	2976.2	3180.2	2704.6	1669.2	1397.6	1385.1	1435.0	1757.6	2839.9	3651.6
65°	2181.2	2212.4	2360.2	2099.0	1252.9	1066.7	1047.9	1195.7	1422.6	2275.9	2786.8
67.5°	1332.0	1392.4	1405.9	1294.6	850.2	675.4	648.3	782.6	1027.1	1472.5	1633.8
70°	615.0	687.9	756.5	706.6	492.2	277.9	262.2	328.8	518.2	847.1	866.9
72.5°	186.3	187.3	262.2	273.7	159.2	62.4	55.2	72.8	175.9	279.9	294.5
75°	13.5	14.6	35.4	40.6	30.2	15.6	16.7	19.8	37.5	62.4	46.8
77.5°	1.0	1.0	1.0	5.2	9.4	10.4	13.5	15.6	19.8	22.9	20.8
80°	1.0	0.0	1.0	4.2	7.3	10.4	12.5	14.6	15.6	17.7	15.6
82.5°	0.0	0.0	0.0	3.1	7.3	10.4	11.4	15.6	17.7	20.8	17.7
85°	0.0	0.0	0.0	3.1	7.3	11.4	10.4	5.2	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°	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8
2.5°	2836.8	2796.2	2703.6	2656.8	2546.5	2530.8	2422.6	2404.9	2368.5	2348.7	2300.9
5°	2595.4	2546.5	2395.6	2268.6	2120.8	2017.8	1938.7	1866.9	1825.3	1786.8	1804.5
7.5°	2398.7	2256.1	2088.6	1876.3	1705.6	1595.3	1474.6	1375.7	1317.5	1277.9	1287.3
10°	2192.6	2100.0	1866.9	1628.6	1422.6	1344.5	1249.8	1173.8	1091.6	1020.9	987.6
12.5°	2128.1	1990.8	1698.3	1455.9	1299.8	1223.8	1115.6	1028.2	923.1	836.7	806.5
15°	2139.6	2007.4	1652.5	1393.4	1209.2	1078.1	949.1	840.8	725.3	665.0	633.8
17.5°	2325.8	2096.9	1682.7	1327.9	1083.3	901.2	742.0	604.6	518.2	455.8	442.3
20°	2554.8	2290.5	1747.2	1280.0	980.3	717.0	542.2	423.5	351.7	341.3	338.2
22.5°	2889.9	2606.8	1885.6	1247.7	854.4	558.8	371.5	308.0	288.3	286.2	287.2
25°	3358.2	3003.3	2036.5	1220.7	759.7	430.8	303.9	261.2	255.0	251.8	257.0
27.5°	3561.1	3242.6	2116.7	1162.4	673.3	388.2	299.7	259.1	241.4	236.2	239.3
30°	3811.9	3401.9	2242.6	1062.5	546.3	319.5	279.9	282.0	273.7	247.7	239.3
32.5°	4144.9	3600.6	2306.1	991.7	488.1	264.3	205.0	188.4	210.2	214.4	221.7
35°	4358.2	3802.5	2338.3	950.1	457.9	225.8	173.8	158.2	153.0	154.0	158.2
37.5°	4754.7	4075.2	2378.9	906.4	435.0	196.7	157.1	142.6	135.3	135.3	139.4
40°	4992.0	4291.6	2434.1	882.5	412.1	179.0	142.6	130.1	123.8	123.8	125.9
42.5°	5051.3	4398.8	2415.3	874.1	386.1	174.8	130.1	120.7	113.4	112.4	111.3
45°	5157.4	4562.2	2418.5	864.8	359.0	159.2	122.8	112.4	102.0	100.9	99.9
47.5°	5274.0	4679.8	2424.7	828.4	333.0	133.2	128.0	104.1	91.6	89.5	89.5
50°	5174.1	4773.4	2478.8	791.9	299.7	108.2	125.9	97.8	81.2	78.0	79.1
52.5°	5186.6	4883.7	2593.3	740.9	258.1	86.4	102.0	92.6	73.9	68.7	69.7
55°	4986.8	4767.2	2608.9	686.8	201.9	66.6	78.0	81.2	62.4	60.4	60.4
57.5°	4292.7	4036.7	2301.9	556.7	133.2	55.2	56.2	70.8	54.1	52.0	53.1
60°	3673.5	3240.6	1852.3	367.3	83.3	43.7	40.6	71.8	47.9	46.8	50.0
62.5°	3348.8	2663.0	1404.9	227.9	57.2	33.3	28.1	58.3	41.6	41.6	45.8
65°	2419.5	1788.9	816.9	119.7	40.6	26.0	20.8	33.3	34.3	35.4	37.5
67.5°	1498.5	903.3	344.5	58.3	27.1	17.7	13.5	20.8	22.9	22.9	25.0
70°	739.9	360.1	114.5	33.3	20.8	14.6	9.4	11.4	11.4	10.4	11.4
72.5°	228.9	108.2	29.1	20.8	14.6	9.4	5.2	4.2	2.1	0.0	1.0
75°	26.0	20.8	18.7	14.6	9.4	4.2	1.0	0.0	0.0	0.0	0.0
77.5°	15.6	17.7	17.7	14.6	9.4	3.1	0.0	0.0	0.0	0.0	0.0
80°	12.5	13.5	14.6	13.5	8.3	4.2	0.0	0.0	0.0	0.0	0.0
82.5°	15.6	17.7	19.8	17.7	11.4	5.2	2.1	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	3.1	1.0	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°	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8
2.5°	2281.1	2258.2	2290.5	2242.6	2241.5	2242.6	2229.1	2216.6	2236.3	2289.4	2294.6
5°	1741.0	1789.9	1805.5	1856.5	1828.4	1786.8	1795.1	1767.0	1835.7	1865.9	1841.9
7.5°	1267.5	1264.4	1369.5	1375.7	1389.3	1390.3	1388.2	1333.1	1276.9	1289.4	1326.8
10°	983.4	930.3	981.3	976.1	1009.4	1000.1	1013.6	954.3	974.0	974.0	998.0
12.5°	801.3	745.1	735.7	722.2	735.7	740.9	746.1	734.7	768.0	783.6	800.3
15°	611.9	580.7	572.4	546.3	550.5	565.1	577.6	582.8	572.4	596.3	598.4
17.5°	444.4	443.3	448.5	447.5	443.3	440.2	439.2	425.6	421.5	423.5	431.9
20°	337.2	345.5	363.2	380.9	390.2	378.8	363.2	340.3	330.9	333.0	334.0
22.5°	288.3	300.7	324.7	344.5	353.8	333.0	304.9	285.1	281.0	279.9	278.9
25°	261.2	275.8	293.5	299.7	298.7	286.2	265.4	257.0	255.0	252.9	243.5
27.5°	246.6	251.8	255.0	262.2	265.4	257.0	251.8	239.3	237.3	237.3	231.0
30°	238.3	235.2	239.3	234.1	238.3	232.1	233.1	233.1	227.9	230.0	230.0
32.5°	221.7	222.7	222.7	212.3	215.4	208.1	215.4	221.7	222.7	223.7	232.1
35°	162.3	181.1	190.4	190.4	193.6	188.4	187.3	180.0	170.7	161.3	157.1
37.5°	142.6	149.9	162.3	169.6	174.8	170.7	161.3	149.9	144.6	140.5	136.3
40°	127.0	133.2	141.5	149.9	160.3	155.1	140.5	135.3	129.0	129.0	124.9
42.5°	114.5	117.6	122.8	135.3	146.7	136.3	125.9	121.8	118.6	117.6	116.6
45°	103.0	104.1	109.3	119.7	133.2	122.8	112.4	107.2	108.2	109.3	108.2
47.5°	92.6	94.7	97.8	110.3	118.6	113.4	102.0	98.9	98.9	98.9	99.9
50°	80.1	85.3	91.6	102.0	108.2	105.1	95.7	91.6	89.5	89.5	90.5
52.5°	71.8	76.0	84.3	96.8	105.1	99.9	90.5	84.3	80.1	79.1	81.2
55°	62.4	69.7	83.3	92.6	104.1	98.9	88.5	81.2	73.9	72.8	72.8
57.5°	56.2	67.6	80.1	91.6	100.9	96.8	88.5	79.1	69.7	68.7	68.7
60°	53.1	65.6	78.0	88.5	100.9	94.7	87.4	77.0	66.6	66.6	65.6
62.5°	50.0	61.4	73.9	84.3	96.8	91.6	84.3	73.9	63.5	63.5	61.4
65°	41.6	53.1	61.4	70.8	84.3	79.1	71.8	64.5	56.2	54.1	55.2
67.5°	29.1	36.4	44.7	54.1	62.4	60.4	57.2	52.0	44.7	43.7	42.7
70°	14.6	19.8	27.1	36.4	43.7	41.6	39.5	35.4	31.2	30.2	30.2
72.5°	2.1	6.2	11.4	16.7	22.9	23.9	22.9	21.9	20.8	19.8	20.8
75°	0.0	0.0	0.0	4.2	9.4	11.4	13.5	15.6	15.6	13.5	16.7
77.5°	0.0	0.0	0.0	0.0	1.0	5.2	10.4	13.5	16.7	14.6	19.8
80°	0.0	0.0	0.0	0.0	1.0	6.2	10.4	14.6	16.7	14.6	20.8
82.5°	0.0	0.0	0.0	0.0	1.0	7.3	10.4	13.5	15.6	14.6	18.7
85°	0.0	0.0	0.0	0.0	3.1	6.2	4.2	2.1	1.0	1.0	3.1
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°	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8	2682.8
2.5°	2323.8	2397.6	2476.7	2506.9	2600.6	2671.3	2719.2	2822.2	2837.8	2838.9
5°	1866.9	1904.4	2039.7	2103.1	2242.6	2350.8	2466.3	2632.8	2744.2	2752.5
7.5°	1326.8	1430.9	1488.1	1653.6	1825.3	1994.9	2166.6	2360.2	2489.2	2492.3
10°	1067.7	1135.3	1237.3	1361.2	1505.8	1678.6	1907.5	2132.3	2263.4	2295.7
12.5°	859.6	978.2	1094.8	1222.8	1333.1	1463.1	1709.8	2009.5	2117.7	2182.2
15°	661.9	770.1	907.4	1057.3	1182.2	1356.0	1636.9	1979.3	2161.4	2183.3
17.5°	488.1	584.8	711.8	853.3	1040.6	1287.3	1649.4	2132.3	2304.0	2340.4
20°	350.7	406.9	506.8	671.2	909.5	1207.1	1661.9	2287.3	2548.5	2611.0
22.5°	277.9	300.7	366.3	512.0	762.8	1122.9	1750.4	2583.9	2884.7	2975.2
25°	241.4	253.9	285.1	403.8	670.2	1114.5	1891.9	2939.8	3332.1	3397.7
27.5°	233.1	235.2	262.2	370.5	620.2	1059.4	1946.0	3192.7	3611.0	3677.6
30°	245.6	278.9	281.0	313.2	527.6	950.1	1974.1	3437.3	3847.3	3896.2
32.5°	212.3	201.9	209.2	242.5	464.1	886.6	2027.2	3650.6	4116.8	4151.1
35°	147.8	155.1	171.7	210.2	405.9	820.0	2040.7	3885.8	4372.8	4408.2
37.5°	136.3	140.5	154.0	179.0	356.9	782.6	2022.0	4057.5	4638.2	4687.1
40°	127.0	132.2	139.4	162.3	320.5	740.9	1996.0	4212.5	4800.5	4921.2
42.5°	119.7	123.8	130.1	155.1	289.3	699.3	1959.5	4431.1	4946.2	5051.3
45°	111.3	117.6	124.9	150.9	271.6	671.2	1932.5	4417.5	5030.5	5086.7
47.5°	103.0	113.4	121.8	140.5	266.4	657.7	1943.9	4366.5	4961.8	4923.3
50°	94.7	108.2	122.8	116.6	253.9	630.6	1957.5	4436.3	4798.4	4791.1
52.5°	87.4	103.0	114.5	95.7	225.8	604.6	2088.6	4527.8	4913.9	4817.1
55°	77.0	92.6	91.6	77.0	183.2	584.8	2191.6	4529.9	4835.9	4872.3
57.5°	69.7	82.2	71.8	64.5	135.3	489.1	2024.1	3798.4	4139.7	4204.2
60°	64.5	80.1	54.1	51.0	88.5	352.8	1767.0	2941.9	3290.5	3412.3
62.5°	59.3	76.0	42.7	41.6	61.4	250.8	1452.7	2462.2	2835.8	3001.2
65°	52.0	54.1	34.3	32.3	43.7	135.3	884.5	1695.2	2119.8	2181.2
67.5°	42.7	41.6	28.1	26.0	29.1	65.6	390.2	849.2	1229.0	1332.0
70°	34.3	34.3	23.9	20.8	20.8	30.2	102.0	338.2	555.7	615.0
72.5°	25.0	26.0	18.7	16.7	15.6	14.6	16.7	67.6	145.7	186.3
75°	21.9	22.9	18.7	14.6	11.4	9.4	7.3	6.2	8.3	13.5
77.5°	23.9	23.9	19.8	13.5	10.4	7.3	4.2	2.1	2.1	1.0
80°	30.2	31.2	26.0	17.7	12.5	8.3	5.2	2.1	1.0	1.0
82.5°	32.3	35.4	29.1	21.9	15.6	9.4	5.2	1.0	0.0	0.0
85°	8.3	13.5	22.9	19.8	15.6	9.4	5.2	1.0	0.0	0.0
87.5°	0.0	1.0	3.1	3.1	4.2	4.2	3.1	1.0	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)