

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: P452060

Luminaire Tested: **GALN-SA3A-727-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452060  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3A-727-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8199 lumens  
Efficiency: N/A  
Efficacy: 88.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

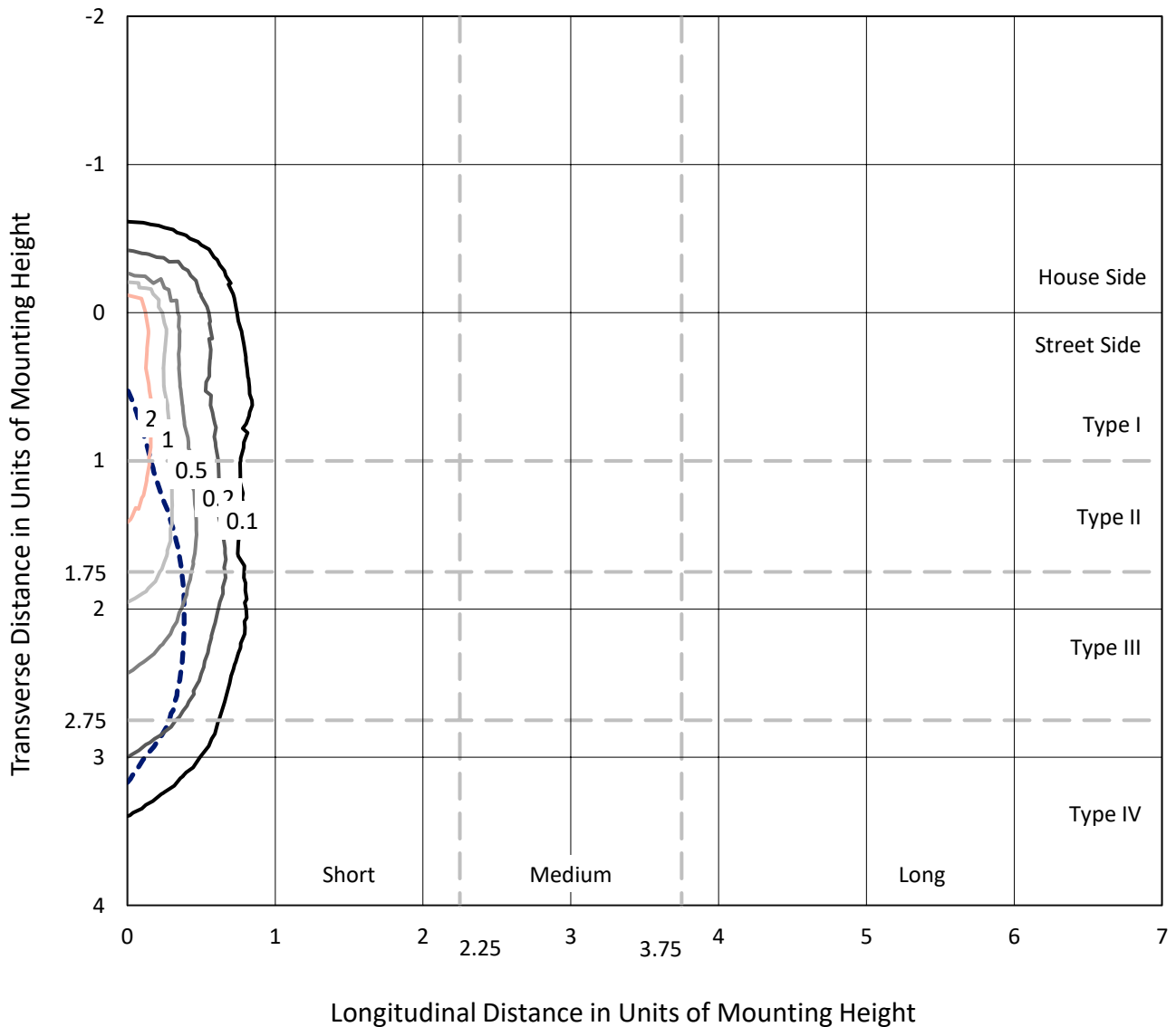




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### Iso-Footcandle Lines of Horizontal Illumination

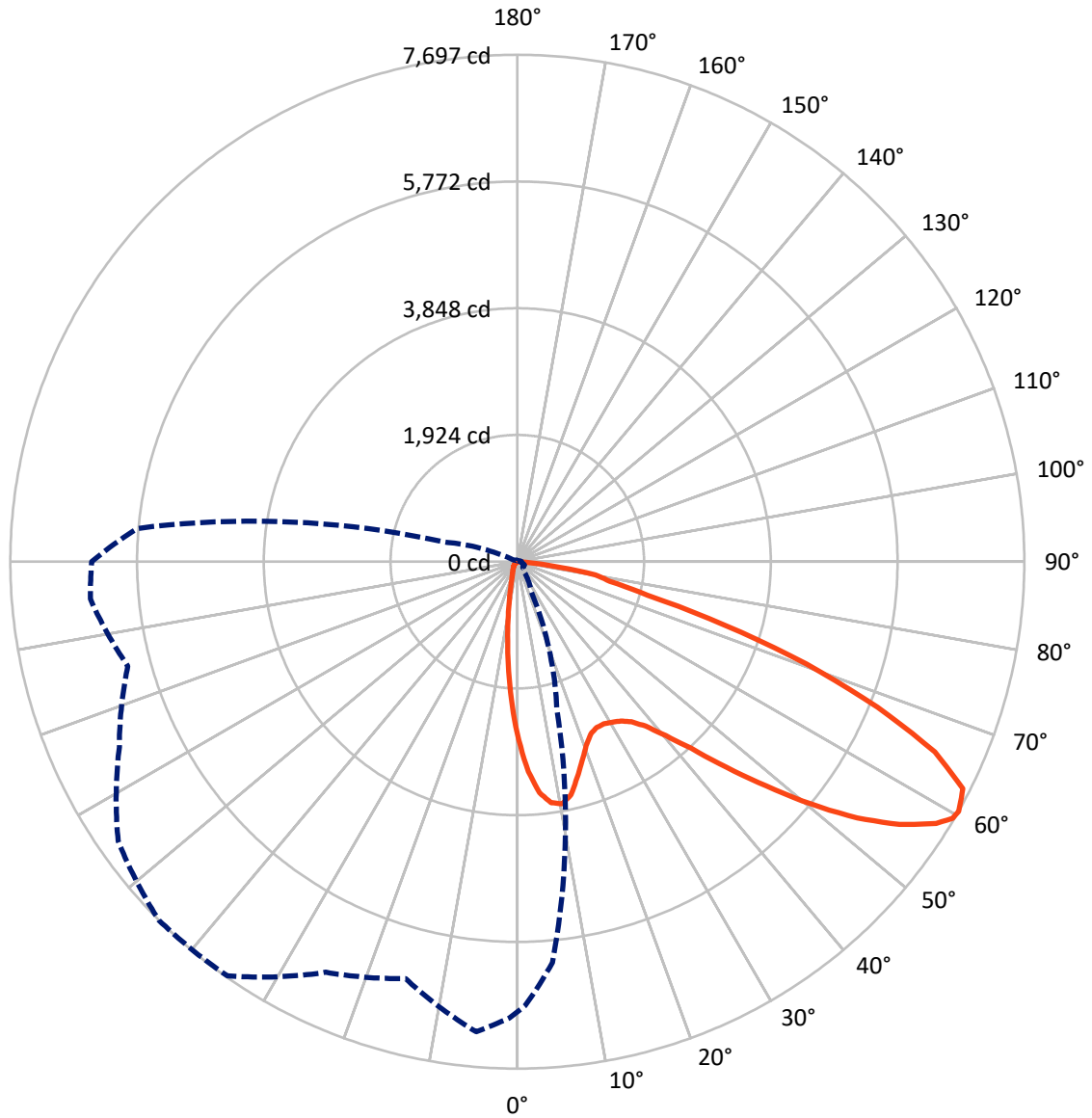
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1011.3	0.0	1011.3
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	7187.7	0.0	7187.7
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	8199.0	0.0	8199.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.6	2.5
10°-20°	400.3	4.9
20°-30°	586.9	7.2
30°-40°	872.9	10.6
40°-50°	1270.3	15.5
50°-60°	1831.9	22.3
60°-70°	2014.8	24.6
70°-80°	902.5	11.0
80°-90°	117.9	1.4
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°	8199.0	100.0
0°-180°	8199.0	100.0

**Coefficient of Utilization**



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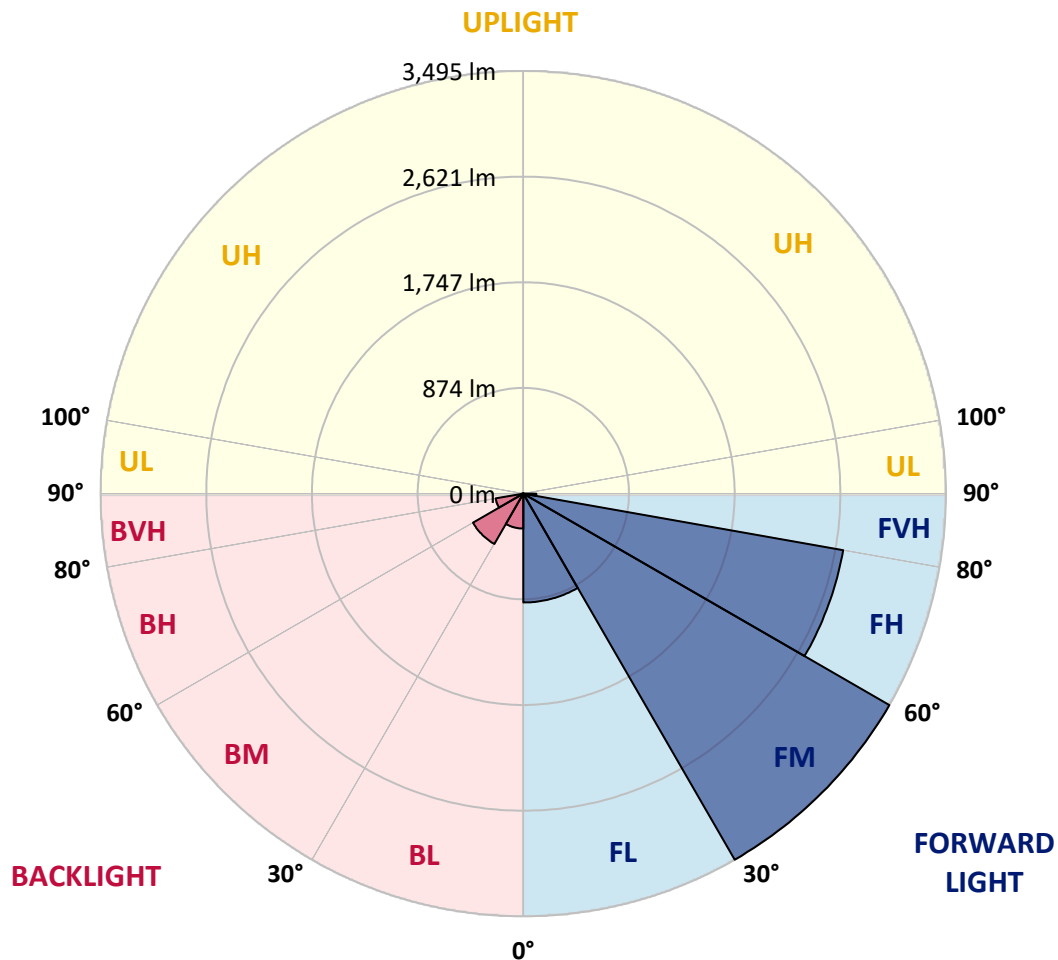
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	899.8	11.0			
FM (30°-60°)	3494.7	42.6			
FH (60°-80°)	2685.4	32.8			G2/5000
FVH (80°-90°)	107.8	1.3			G2/225
BL (0°-30°)	289.0	3.5	B1/500		
BM (30°-60°)	480.3	5.9	B1/1000		
BH (60°-80°)	231.9	2.8	B1/500		G1/500
BVH (80°-90°)	10.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9
2.5°	2979.1	2966.0	2936.1	2845.1	2766.0	2662.5	2557.8	2475.5	2425.1	2332.2	2289.8
5°	2886.3	2892.5	2805.9	2618.9	2410.7	2268.6	2113.4	1990.0	1854.2	1768.2	1677.8
7.5°	2643.8	2631.4	2537.2	2276.7	2023.7	1818.0	1621.7	1462.1	1361.8	1281.4	1214.1
10°	2436.3	2426.9	2306.6	1971.3	1699.6	1545.7	1412.9	1273.3	1165.5	1047.7	953.6
12.5°	2306.0	2284.8	2146.5	1796.2	1575.0	1431.6	1287.0	1141.8	992.8	873.8	759.7
15°	2262.4	2231.9	2077.9	1735.7	1495.2	1313.2	1131.8	964.8	793.4	661.9	575.9
17.5°	2341.5	2291.1	2127.1	1725.2	1399.8	1158.6	935.5	718.0	539.7	439.4	386.4
20°	2522.9	2464.9	2251.8	1714.6	1293.9	985.4	711.1	507.3	373.3	318.5	289.2
22.5°	2792.2	2712.4	2436.3	1731.4	1196.0	816.5	513.6	358.4	296.7	262.4	241.8
25°	3115.6	3048.9	2670.0	1791.2	1118.7	683.7	397.0	292.9	249.9	228.7	213.2
27.5°	3470.3	3363.7	2972.3	1862.9	1048.3	580.9	348.4	261.8	222.5	203.2	195.1
30°	3722.7	3639.8	3225.3	1912.8	960.4	503.6	318.5	258.0	223.1	200.1	185.1
32.5°	3972.0	3866.0	3437.2	1935.8	896.2	450.0	275.5	225.0	195.7	183.9	168.9
35°	4238.7	4127.8	3648.5	1923.3	848.2	414.5	249.9	200.7	167.7	147.7	132.8
37.5°	4508.6	4391.4	3858.5	1878.5	818.3	400.1	230.0	190.7	158.3	137.7	121.5
40°	4828.9	4672.5	4055.5	1841.7	787.2	392.6	216.9	184.5	151.4	129.6	113.4
42.5°	5090.7	4941.7	4241.8	1822.4	766.0	375.2	216.9	179.5	147.1	122.8	106.0
45°	5338.8	5184.2	4443.1	1838.0	757.2	353.4	219.4	178.9	144.0	117.8	101.0
47.5°	5546.3	5412.3	4650.1	1896.5	746.0	329.7	206.3	187.6	142.1	113.4	96.0
50°	5791.2	5661.6	4923.7	2015.0	726.1	306.0	190.1	201.9	141.5	109.7	91.6
52.5°	6136.5	5996.3	5301.4	2149.6	694.3	269.9	175.1	200.1	139.0	103.5	87.3
55°	6558.4	6445.0	5738.9	2311.0	650.7	229.4	151.4	177.6	131.5	92.9	79.8
57.5°	6828.9	6732.3	6066.7	2380.8	584.0	187.6	133.4	149.0	120.3	82.9	71.1
59°	6860.7	6773.5	6135.3	2357.8	540.4	171.4	124.6	127.8	117.2	77.3	66.1
60°	6833.9	6743.6	6107.8	2312.9	499.8	160.2	117.2	113.4	117.8	74.2	62.3
62.5°	6661.9	6507.3	5841.7	2085.4	436.9	147.1	104.1	92.9	104.1	66.7	55.5
65°	6329.7	6097.9	5315.1	1765.0	412.0	139.6	88.5	77.9	79.2	58.6	48.0
67.5°	5749.5	5457.2	4613.9	1434.1	401.4	140.2	74.8	69.8	61.1	49.9	42.4
70°	4832.0	4540.4	3702.1	1179.8	396.4	140.2	63.6	59.8	51.1	41.8	36.8
72.5°	3424.1	3110.0	2497.4	926.8	357.1	139.6	54.2	54.2	41.8	34.9	29.9
75°	1934.6	1937.1	1570.0	655.7	296.7	115.3	43.6	43.0	30.5	26.8	22.4
77.5°	1127.5	1107.5	1058.3	281.7	137.7	52.4	30.5	26.2	21.2	19.3	16.2
80°	579.6	476.8	464.3	102.2	49.2	33.0	21.2	15.0	13.7	12.5	11.2
82.5°	171.4	172.0	153.3	41.1	27.4	21.8	10.6	8.1	7.5	6.9	6.9
85°	11.8	7.5	8.7	12.5	16.8	8.7	0.6	1.9	1.9	2.5	3.1
87.5°	1.2	0.6	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°	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9
2.5°	2243.1	2270.5	2219.4	2220.6	2178.3	2192.0	2142.1	2158.3	2129.0	2151.5	2217.5
5°	1687.8	1694.0	1652.9	1639.8	1646.0	1671.6	1681.5	1636.0	1655.3	1617.3	1614.8
7.5°	1189.2	1196.6	1173.0	1169.8	1214.7	1204.1	1223.4	1176.7	1132.4	1151.8	1116.2
10°	923.7	892.5	843.9	830.2	821.4	827.1	827.1	784.7	778.4	761.6	787.2
12.5°	729.2	691.2	645.1	582.7	567.2	565.9	542.8	505.5	493.6	479.3	500.5
15°	529.8	514.2	475.5	440.6	405.1	398.3	360.9	330.3	289.8	284.2	282.3
17.5°	372.7	349.6	349.0	329.1	308.5	294.8	259.9	225.0	209.4	207.5	207.5
20°	279.2	271.1	258.0	255.5	249.3	233.7	202.6	183.9	176.4	177.0	179.5
22.5°	235.0	229.4	217.5	211.9	209.4	195.7	172.6	160.2	156.4	156.4	157.1
25°	210.0	205.0	192.0	183.2	180.1	170.1	152.1	142.7	139.6	139.6	139.6
27.5°	191.3	185.1	171.4	163.9	158.3	147.1	135.9	126.5	123.4	123.4	124.0
30°	178.2	171.4	158.9	149.0	140.2	130.3	120.9	112.8	109.1	108.4	109.1
32.5°	160.8	154.6	142.1	135.9	125.9	114.1	106.6	99.1	95.4	96.0	95.4
35°	125.3	123.4	114.7	116.5	110.9	101.0	94.1	86.0	81.6	81.0	82.3
37.5°	114.1	106.6	96.6	97.2	95.4	91.6	80.4	71.7	68.6	68.6	69.2
40°	105.3	97.9	86.6	81.0	81.6	81.6	69.8	60.5	57.3	56.7	58.0
42.5°	97.9	90.4	77.9	68.6	66.1	69.2	59.2	49.9	46.7	45.5	46.7
45°	92.9	84.8	70.4	59.8	52.4	56.1	48.6	41.1	37.4	37.4	36.8
47.5°	87.9	80.4	64.8	51.7	43.6	41.8	39.9	33.0	29.3	28.7	29.3
50°	83.5	76.0	58.6	44.9	36.8	32.4	32.4	26.2	23.7	22.4	23.1
52.5°	79.2	71.1	53.0	39.9	31.8	26.2	23.1	21.2	19.3	18.7	19.3
55°	72.9	64.8	47.4	34.3	27.4	21.8	18.1	17.5	16.2	15.0	16.2
57.5°	65.4	58.0	41.8	29.3	21.8	16.8	15.0	14.3	13.1	12.5	12.5
59°	61.1	54.2	38.6	25.6	19.3	15.0	13.7	13.1	11.8	10.6	11.2
60°	58.6	53.0	36.8	23.7	17.5	13.7	12.5	11.8	10.6	10.0	10.6
62.5°	51.7	47.4	32.4	19.3	13.7	10.0	8.7	9.3	8.7	8.1	8.7
65°	45.5	41.8	27.4	15.0	10.6	6.9	6.2	8.1	7.5	6.9	7.5
67.5°	40.5	36.1	23.1	11.2	7.5	3.7	4.4	6.9	6.9	6.2	6.9
70°	34.9	31.2	18.7	8.1	3.7	1.9	3.1	5.0	6.2	5.6	6.2
72.5°	28.7	24.3	14.3	5.6	1.9	0.0	1.9	4.4	6.2	5.6	6.2
75°	22.4	18.1	10.6	3.1	0.0	0.0	0.6	3.7	6.2	5.6	6.2
77.5°	16.2	13.1	6.2	0.6	0.0	0.0	0.6	3.7	6.2	5.6	6.2
80°	10.6	9.3	2.5	0.0	0.0	0.0	0.6	3.7	6.2	6.2	6.9
82.5°	6.9	5.0	0.0	0.0	0.0	0.0	1.2	5.0	6.9	7.5	7.5
85°	3.1	0.0	0.0	0.0	0.0	0.0	2.5	6.2	8.1	8.1	8.1
87.5°	0.0	0.0	0.0	0.0	0.0	1.2	4.4	7.5	9.3	9.3	9.3
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°	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9
2.5°	2228.7	2268.0	2323.5	2408.9	2478.0	2587.1	2670.6	2784.7	2900.0	2934.9	2989.1
5°	1640.4	1690.9	1816.8	1931.4	2003.7	2234.3	2380.2	2610.2	2816.5	2915.6	3023.4
7.5°	1139.3	1199.1	1295.1	1455.3	1607.4	1795.0	2030.5	2293.6	2595.8	2737.3	2889.4
10°	799.6	874.4	1009.7	1141.2	1332.5	1510.8	1743.2	2033.7	2367.1	2534.1	2724.8
12.5°	504.8	571.5	750.4	898.1	1136.8	1343.7	1558.1	1821.1	2207.5	2378.9	2579.0
15°	288.6	344.7	428.2	617.6	882.5	1156.1	1423.5	1728.9	2125.9	2337.2	2553.5
17.5°	215.0	230.0	267.4	374.6	615.8	935.5	1299.5	1700.8	2181.4	2429.4	2676.2
20°	180.7	190.7	208.2	250.5	392.6	720.5	1178.6	1705.8	2360.9	2672.5	2906.8
22.5°	162.0	168.3	182.6	210.0	268.0	524.8	1037.1	1735.1	2578.4	2971.0	3241.5
25°	142.1	150.2	162.7	186.4	223.1	364.0	897.5	1800.6	2883.1	3350.0	3604.2
27.5°	126.5	134.0	146.5	168.3	195.7	278.0	734.8	1856.7	3204.7	3731.4	3939.6
30°	110.9	118.4	130.9	148.3	173.3	225.0	559.7	1889.7	3517.0	4017.5	4177.6
32.5°	97.9	104.1	115.9	131.5	152.1	190.7	441.3	1855.4	3755.7	4277.4	4384.6
35°	84.8	92.2	102.2	116.5	134.6	162.7	367.1	1737.0	3960.7	4544.7	4583.4
37.5°	71.1	79.8	90.4	103.5	117.8	149.6	294.8	1606.1	4180.1	4878.2	4814.6
40°	59.8	67.9	77.9	92.2	105.3	137.1	226.9	1466.5	4417.0	5191.0	5067.0
42.5°	48.6	57.3	69.2	82.3	104.1	119.7	175.8	1321.9	4629.5	5463.4	5295.1
45°	38.6	46.1	58.6	75.4	103.5	102.8	135.9	1179.2	4789.7	5657.9	5465.3
47.5°	30.5	36.8	49.2	73.5	95.4	87.3	109.1	1090.7	4957.9	5833.0	5595.5
50°	24.3	30.5	42.4	76.7	83.5	74.8	91.6	1105.0	5120.6	5922.1	5649.1
52.5°	20.6	26.8	36.8	60.5	64.2	65.4	80.4	1171.1	5330.6	6017.5	5755.7
55°	18.1	23.7	31.2	42.4	49.9	58.6	73.5	1219.1	5611.7	6221.9	5990.7
57.5°	14.3	20.6	28.0	36.1	41.1	51.1	67.9	1222.8	5866.0	6484.3	6302.9
59°	13.1	18.7	26.2	34.3	36.8	46.1	64.2	1191.0	5875.4	6523.5	6446.3
60°	11.8	18.1	24.9	31.8	34.9	43.6	61.1	1154.3	5790.6	6461.2	6505.5
62.5°	10.0	15.6	21.8	25.6	29.9	36.1	53.0	1020.9	5379.9	6178.9	6395.8
65°	8.7	13.7	18.7	21.2	24.9	31.2	46.7	817.1	4926.2	5796.2	6081.7
67.5°	8.1	12.5	16.2	18.1	21.8	28.7	41.8	577.1	4338.4	5310.7	5609.9
70°	7.5	11.8	14.3	16.8	19.3	24.3	35.5	336.6	3341.9	4459.3	4775.3
72.5°	7.5	11.2	12.5	14.3	16.8	21.8	33.0	182.0	2284.8	3401.7	3809.9
75°	7.5	10.6	11.2	12.5	15.0	19.9	29.3	95.4	1477.1	2363.4	2916.8
77.5°	7.5	10.0	11.2	11.8	14.3	17.5	25.6	59.8	984.1	1655.3	1971.3
80°	8.1	10.0	10.6	11.8	13.7	16.2	21.2	39.9	578.4	996.0	1199.8
82.5°	8.7	10.0	11.2	12.5	14.3	15.6	18.7	24.9	266.8	658.8	745.4
85°	9.3	10.6	11.8	13.1	15.0	15.6	17.5	18.1	43.6	297.3	402.0
87.5°	10.0	11.2	12.5	13.7	16.2	16.2	16.2	16.2	15.0	31.8	81.0
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°	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9	2709.9
2.5°	3057.7	3128.1	3177.3	3189.8	3154.3	3138.1	3093.2	3023.4	2981.0	2979.1
5°	3222.2	3387.4	3502.0	3521.4	3452.8	3336.9	3199.1	3021.5	2917.4	2886.3
7.5°	3194.2	3483.3	3667.8	3694.6	3579.3	3358.1	3091.3	2805.2	2691.8	2643.8
10°	3078.9	3431.6	3695.2	3737.6	3583.7	3272.1	2933.0	2613.9	2473.1	2436.3
12.5°	2980.4	3336.9	3571.2	3629.8	3513.3	3202.3	2838.3	2491.1	2340.3	2306.0
15°	2937.4	3224.7	3368.0	3398.0	3378.6	3158.6	2828.3	2472.4	2299.8	2262.4
17.5°	2980.4	3129.3	3147.4	3177.9	3221.0	3154.3	2924.3	2574.0	2387.7	2341.5
20°	3093.2	3046.4	2971.7	2984.7	3083.2	3172.3	3095.1	2799.0	2572.1	2522.9
22.5°	3285.1	3025.9	2856.4	2845.1	2969.8	3232.8	3345.6	3103.8	2840.8	2792.2
25°	3520.7	3077.6	2814.0	2789.7	2925.5	3321.3	3618.0	3477.1	3189.8	3115.6
27.5°	3777.5	3184.8	2814.0	2790.3	2921.8	3399.8	3851.1	3807.4	3551.3	3470.3
30°	3918.4	3273.3	2854.5	2827.7	2967.9	3445.3	3975.7	4101.0	3823.0	3722.7
32.5°	4044.3	3396.1	2933.6	2883.1	3064.5	3512.6	4087.3	4350.3	4039.3	3972.0
35°	4160.2	3527.6	3042.7	2984.1	3191.7	3604.9	4210.7	4612.0	4340.3	4238.7
37.5°	4288.0	3680.3	3212.8	3163.0	3404.2	3784.4	4357.1	4956.1	4636.3	4508.6
40°	4426.9	3857.3	3492.7	3471.5	3742.0	3987.5	4542.2	5323.2	4974.2	4828.9
42.5°	4568.4	4061.1	3835.5	3870.4	4124.7	4272.4	4732.3	5605.5	5250.9	5090.7
45°	4696.8	4321.6	4281.1	4453.7	4570.9	4550.3	4873.2	5804.3	5492.1	5338.8
47.5°	4858.8	4701.2	4820.2	5086.3	5089.5	4852.6	4979.8	5967.0	5699.6	5546.3
50°	5040.2	5149.3	5516.4	5787.5	5714.6	5149.9	5104.4	6159.6	5914.0	5791.2
52.5°	5250.2	5651.0	6159.6	6460.6	6290.5	5474.0	5312.0	6367.7	6254.3	6136.5
55°	5494.6	5993.2	6800.9	7040.8	6869.5	5876.6	5627.3	6650.1	6638.8	6558.4
57.5°	5770.7	6354.6	7172.3	7497.1	7344.4	6349.0	6068.0	6916.2	6873.8	6828.9
59°	5988.8	6540.4	7336.3	7672.8	7580.6	6680.0	6364.0	7082.0	6928.0	6860.7
60°	6120.9	6666.3	7396.7	7696.5	7675.3	6876.9	6551.6	7163.0	6927.4	6833.9
62.5°	6513.0	6886.3	7373.7	7591.2	7674.1	7254.6	7101.9	7252.1	6799.0	6661.9
65°	6652.6	6813.4	6991.6	6964.8	7035.9	7235.3	7453.4	7154.3	6524.8	6329.7
67.5°	6380.8	6013.7	6076.7	5897.8	5862.9	6432.6	7310.7	6675.6	5988.2	5749.5
70°	5378.6	4607.1	4575.3	4657.5	4431.9	5207.9	6564.7	5753.8	5102.5	4832.0
72.5°	4233.7	3255.9	2987.9	3290.8	3283.9	3973.2	5453.4	4082.9	3447.2	3424.1
75°	3329.4	2266.8	1989.4	2038.6	2133.4	2876.3	4343.4	2592.7	2122.8	1934.6
77.5°	2235.0	1606.1	1498.3	1437.8	1540.0	1846.7	2747.9	1406.0	1190.4	1127.5
80°	1288.3	1166.7	1325.0	1202.9	1257.7	1163.6	1366.8	645.1	535.4	579.6
82.5°	838.3	664.4	708.0	526.0	719.2	725.5	438.8	190.7	161.4	171.4
85°	524.2	311.6	175.1	124.6	248.1	456.2	137.1	11.8	13.7	11.8
87.5°	135.9	51.7	21.8	32.4	39.9	35.5	31.8	1.9	0.6	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)