

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: P652291

Luminaire Tested: **GALN-SA3B-840-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652291  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-840-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12313.9 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

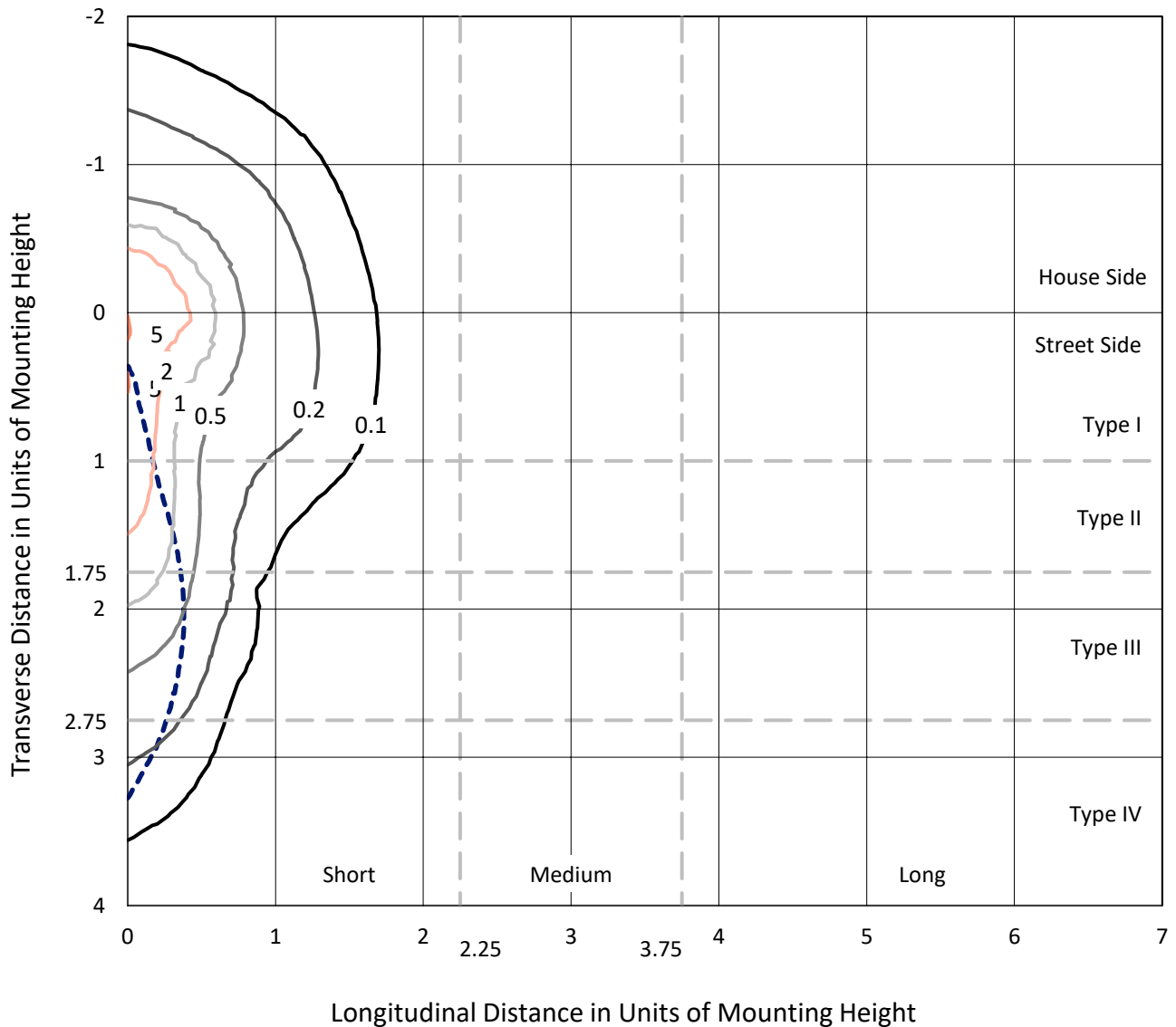
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

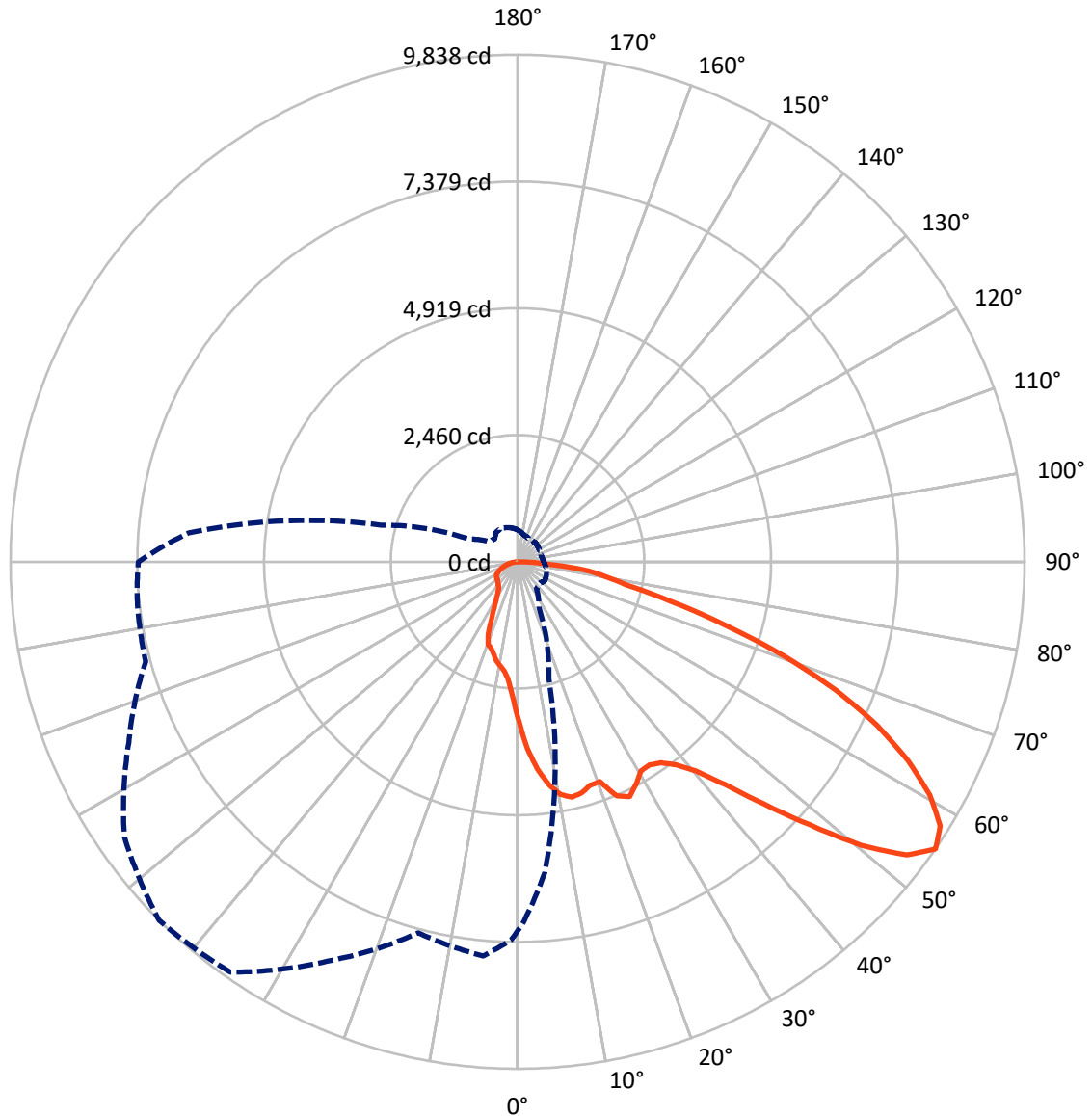
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2693.6	0.0	2693.6
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	9620.3	0.0	9620.3
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	12313.9	0.0	12313.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.9	2.1
10°-20°	694.9	5.6
20°-30°	1200.4	9.7
30°-40°	1395.1	11.3
40°-50°	1946.4	15.8
50°-60°	2641.0	21.4
60°-70°	2512.6	20.4
70°-80°	1357.4	11.0
80°-90°	304.2	2.5
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°	12313.9	100.0
0°-180°	12313.9	100.0

**Coefficient of Utilization**



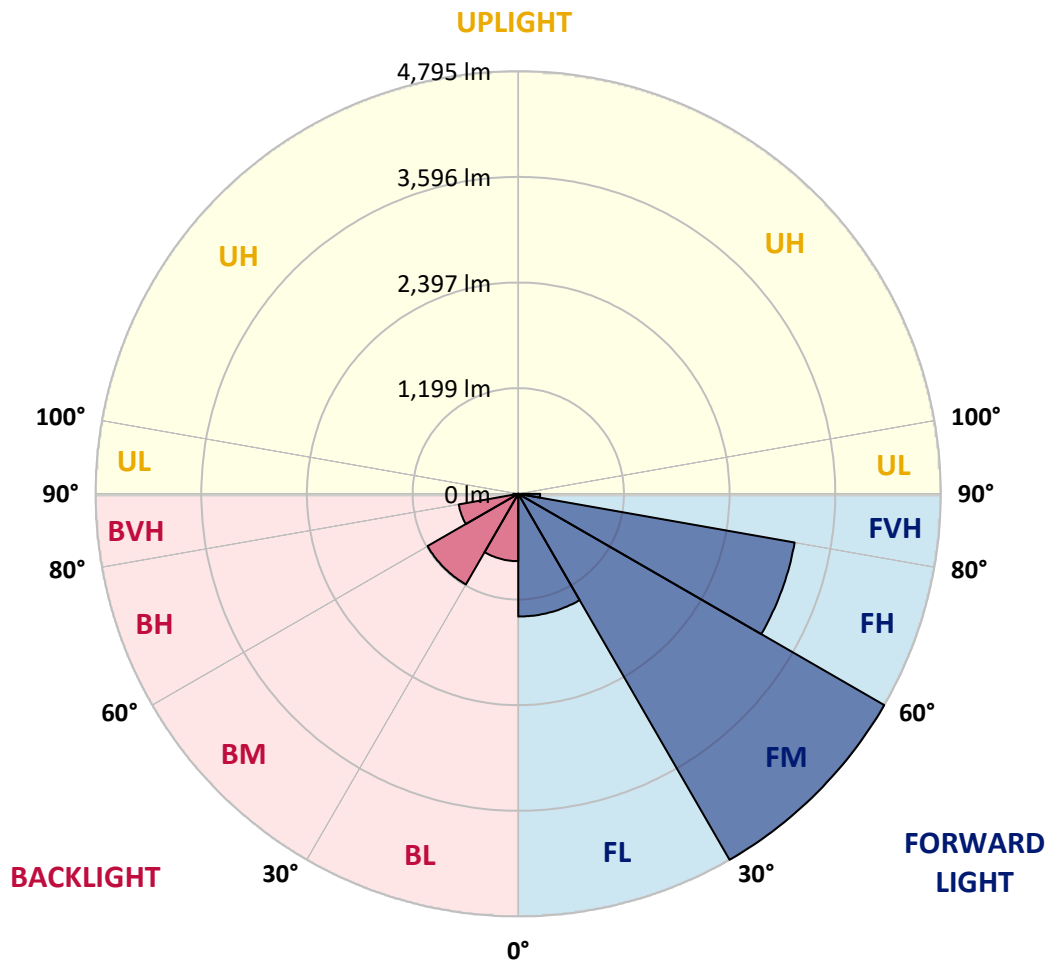
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1392.7	11.3			
FM (30°-60°)	4794.8	38.9			
FH (60°-80°)	3184.2	25.9			G2/5000
FVH (80°-90°)	248.6	2.0			G3/500
BL (0°-30°)	764.5	6.2	B2/1000		
BM (30°-60°)	1187.7	9.6	B2/2500		
BH (60°-80°)	685.9	5.6	B2/1000		G2/1000
BVH (80°-90°)	55.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3
2.5°	3433.1	3420.2	3383.6	3287.7	3191.1	3092.8	3017.2	2923.0	2824.7	2771.9	2704.4
5°	3480.2	3465.7	3379.6	3163.4	2967.6	2762.1	2598.0	2454.2	2395.8	2309.6	2240.6
7.5°	3369.8	3363.2	3234.1	2923.7	2655.7	2386.8	2200.7	2085.4	1980.6	1941.6	1949.7
10°	3269.1	3243.1	3081.3	2676.0	2363.2	2144.7	2011.5	1898.6	1824.6	1805.1	1809.2
12.5°	3185.4	3150.5	2959.5	2509.5	2235.7	2061.0	1891.2	1773.4	1706.0	1724.7	1788.1
15°	3168.3	3121.2	2908.3	2452.6	2165.8	1940.8	1754.7	1619.1	1568.7	1609.3	1710.8
17.5°	3278.8	3219.5	2996.1	2471.3	2099.2	1818.2	1589.8	1434.7	1392.4	1457.5	1589.8
20°	3633.8	3546.1	3269.9	2579.3	2092.7	1757.2	1494.0	1338.0	1355.9	1479.3	1617.5
22.5°	4290.2	4158.6	3749.2	2737.0	2126.8	1741.8	1474.4	1393.2	1491.5	1596.3	1687.3
25°	4420.2	4317.0	3835.3	2772.7	2119.5	1731.2	1529.7	1570.3	1680.0	1732.0	1700.3
27.5°	4493.3	4375.5	3829.6	2595.6	1895.3	1570.3	1462.3	1529.7	1557.4	1507.0	1420.9
30°	4663.9	4541.2	3926.3	2409.5	1560.6	1165.0	1021.1	993.6	1012.2	1022.0	991.1
32.5°	4898.7	4777.6	4108.2	2287.7	1349.4	963.4	822.2	783.1	774.2	763.6	751.4
35°	5202.5	5016.5	4287.0	2209.7	1262.4	891.2	761.2	731.2	719.0	704.3	691.3
37.5°	5511.2	5316.2	4512.8	2127.6	1204.7	840.8	720.6	706.8	685.7	670.2	651.5
40°	5839.4	5620.9	4718.3	2056.2	1148.7	808.3	691.3	689.7	662.1	644.2	622.3
42.5°	6123.7	5898.7	4901.9	2012.3	1105.7	774.2	673.5	678.4	649.9	623.1	594.7
45°	6349.6	6128.6	5071.7	2012.3	1070.8	740.1	670.2	667.0	638.6	605.3	572.7
47.5°	6547.9	6319.5	5237.4	2063.5	1048.8	711.7	652.4	658.0	628.8	586.5	554.9
50°	6701.3	6499.9	5460.9	2143.0	1026.9	688.9	629.6	660.4	620.7	576.8	540.3
52.5°	6897.1	6716.8	5729.7	2251.9	1008.2	663.7	609.3	660.4	619.8	577.6	537.8
55°	7168.5	6978.4	6053.9	2342.1	978.1	640.2	591.4	641.8	617.4	573.6	531.3
57.5°	7358.6	7216.5	6283.0	2402.2	935.0	610.1	575.2	623.9	606.9	558.1	511.8
58°	7367.5	7228.6	6316.3	2416.0	924.5	604.4	571.1	615.8	602.0	551.6	505.3
60°	7265.1	7145.7	6322.8	2396.5	864.4	576.0	550.0	582.5	576.0	513.4	470.4
62.5°	6893.1	6765.5	6060.4	2238.2	784.7	541.0	517.5	537.8	523.2	459.8	420.0
65°	6364.3	6129.5	5521.0	1989.6	727.9	503.7	473.7	475.2	459.8	414.3	379.4
67.5°	5659.8	5397.5	4674.4	1676.8	684.8	462.2	421.6	417.6	398.9	369.6	341.2
70°	4793.1	4613.6	3798.7	1364.0	636.9	416.7	363.1	360.7	349.4	327.4	302.2
72.5°	3884.8	3656.6	3067.5	1091.9	578.4	372.9	308.7	313.6	299.0	283.5	260.8
75°	2866.9	2717.4	2371.4	875.7	499.6	325.0	257.5	259.1	252.6	236.4	218.5
77.5°	1888.0	1843.3	1696.3	575.2	384.3	258.4	210.4	212.0	207.1	192.5	173.8
80°	1270.6	1240.5	1149.6	370.5	256.7	186.9	162.5	164.1	163.3	147.8	122.7
82.5°	783.1	770.1	740.9	250.2	177.9	134.1	107.2	112.1	121.0	103.9	83.7
85°	369.6	370.5	447.7	136.5	104.8	86.1	58.5	62.6	62.6	62.6	47.1
87.5°	47.9	50.4	61.7	57.7	38.2	32.5	21.1	17.9	15.5	20.3	14.6
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3
2.5°	2680.9	2664.6	2629.7	2621.6	2616.7	2630.5	2594.0	2603.7	2587.4	2632.9	2625.6
5°	2244.6	2246.2	2274.7	2293.3	2299.9	2293.3	2269.0	2226.7	2194.3	2181.2	2184.5
7.5°	1934.3	1962.7	2011.5	2065.9	2115.5	2130.1	2116.3	2035.8	1948.1	1892.8	1875.0
10°	1831.1	1869.3	1925.4	1968.4	2012.3	2047.2	2054.6	1992.0	1888.0	1757.2	1706.0
12.5°	1836.8	1888.8	1942.4	1956.3	1952.1	1966.0	1959.4	1948.9	1880.6	1714.1	1628.8
15°	1783.2	1844.9	1882.3	1875.0	1862.0	1849.8	1832.7	1806.0	1781.6	1664.6	1570.3
17.5°	1659.7	1723.0	1753.9	1756.3	1756.3	1753.1	1711.7	1701.9	1698.7	1641.8	1584.2
20°	1682.4	1717.4	1703.6	1680.8	1687.3	1709.2	1684.9	1680.0	1698.7	1723.9	1713.3
22.5°	1695.5	1683.3	1579.3	1478.6	1455.8	1524.1	1537.9	1592.3	1667.8	1758.8	1818.2
25°	1615.1	1516.7	1330.7	1216.9	1152.8	1216.2	1299.0	1399.8	1512.6	1629.6	1698.7
27.5°	1350.2	1275.5	1142.2	1039.8	983.8	993.6	1064.2	1156.0	1260.8	1339.6	1390.0
30°	1017.1	983.8	914.8	879.9	845.7	837.6	867.7	902.6	948.9	958.7	971.6
32.5°	749.0	744.1	748.2	736.8	730.3	729.5	720.6	728.7	733.6	739.2	727.9
35°	677.5	671.0	659.7	656.4	652.4	654.0	649.9	645.9	649.1	654.0	657.2
37.5°	641.0	631.3	614.9	609.3	609.3	611.7	605.3	603.6	609.3	624.7	632.9
40°	612.5	601.1	582.5	575.2	580.0	586.5	577.6	574.3	588.2	604.4	617.4
42.5°	585.8	576.8	558.9	550.8	554.9	567.1	554.1	551.6	569.4	587.4	602.8
45°	563.0	554.1	537.8	533.7	535.4	546.7	537.8	537.8	554.9	574.3	588.2
47.5°	545.1	533.7	523.2	519.9	521.6	528.1	526.5	526.5	542.7	563.0	576.8
50°	527.2	517.5	503.7	505.3	509.4	518.3	517.5	519.9	536.1	561.4	576.0
52.5°	519.1	504.5	489.0	490.6	502.8	513.4	510.2	512.6	531.3	578.4	599.5
55°	510.2	490.6	472.8	475.2	489.0	504.5	500.4	503.7	525.6	589.8	619.1
57.5°	493.1	470.4	450.9	452.5	472.8	489.0	482.6	486.6	512.6	577.6	608.5
58°	485.8	466.3	447.7	448.4	467.9	485.8	478.5	481.7	508.6	574.3	603.6
60°	454.9	443.5	427.3	428.2	446.8	462.2	458.2	461.5	487.4	550.8	572.7
62.5°	412.7	406.2	402.2	402.2	413.5	428.2	432.2	436.2	459.8	498.0	517.5
65°	367.2	367.2	368.0	368.0	375.3	394.0	396.4	407.0	428.9	447.7	462.2
67.5°	336.3	334.7	336.3	332.3	335.5	346.9	359.1	368.9	391.6	404.6	409.5
70°	296.5	295.7	296.5	290.8	294.9	304.6	312.8	329.0	352.5	362.3	364.7
72.5°	257.5	257.5	259.1	255.1	255.1	265.7	271.3	289.2	311.2	316.8	317.6
75°	216.9	219.3	219.3	213.7	215.3	221.8	229.1	243.7	264.0	268.1	268.1
77.5°	172.2	181.2	181.2	175.5	177.9	178.7	188.5	195.8	211.3	212.9	206.4
80°	125.1	134.1	141.4	136.5	140.5	135.7	141.4	146.2	161.6	154.3	143.8
82.5°	89.4	95.9	101.5	102.3	98.3	89.4	96.7	97.5	104.8	95.0	89.4
85°	49.5	55.3	62.6	59.3	52.8	47.1	49.5	51.2	50.4	47.9	44.7
87.5°	13.0	13.8	15.5	11.4	10.6	8.9	12.2	12.2	13.8	14.6	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°	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3
2.5°	2631.3	2667.1	2744.3	2802.7	2874.2	2961.2	3063.5	3166.7	3278.0	3312.9	3361.6
5°	2177.2	2266.6	2303.9	2410.3	2515.9	2674.4	2843.3	3039.1	3253.6	3356.8	3455.9
7.5°	1860.4	1908.3	1947.3	2025.3	2152.0	2344.5	2556.6	2801.1	3105.0	3255.3	3400.7
10°	1689.7	1694.6	1742.6	1839.3	1949.7	2119.5	2320.2	2594.0	2932.7	3115.5	3286.1
12.5°	1576.9	1555.7	1607.7	1708.4	1833.5	1990.3	2174.7	2435.5	2808.4	2996.1	3202.4
15°	1477.7	1444.4	1483.4	1586.5	1710.1	1894.5	2092.7	2368.9	2759.7	2978.2	3207.3
17.5°	1480.2	1388.4	1402.2	1489.1	1611.8	1799.4	2039.9	2366.5	2833.6	3085.5	3356.8
20°	1663.0	1515.9	1453.3	1469.6	1588.2	1792.9	2064.2	2480.2	3076.5	3443.7	3733.7
22.5°	1842.5	1753.9	1653.2	1619.9	1684.9	1899.4	2219.4	2749.1	3604.5	4157.8	4681.8
25°	1780.0	1855.5	1830.3	1783.2	1797.8	1975.8	2325.0	2970.1	4014.8	4637.9	5130.2
27.5°	1424.1	1561.4	1589.0	1588.2	1593.9	1740.1	2091.1	2821.4	4066.0	4729.7	5200.1
30°	1000.9	1013.1	1027.7	1056.1	1082.1	1212.9	1636.2	2477.0	4043.3	4771.2	5242.3
32.5°	722.3	738.5	758.8	797.8	859.5	1026.0	1431.4	2367.3	4163.5	4942.6	5365.8
35°	660.4	679.2	698.6	743.4	801.8	956.2	1350.2	2321.8	4360.9	5220.4	5587.6
37.5°	641.0	662.1	679.2	711.7	758.8	905.8	1276.2	2291.0	4563.2	5514.4	5884.9
40°	627.1	651.5	665.3	691.3	723.8	859.5	1210.5	2266.6	4759.0	5783.4	6123.7
42.5°	614.9	640.2	658.0	676.8	703.5	818.0	1152.0	2242.2	4928.8	6044.2	6361.8
45°	600.4	632.0	654.8	669.4	693.0	783.1	1107.3	2222.7	5122.1	6275.7	6602.3
47.5°	588.2	623.1	651.5	668.6	677.5	758.8	1071.5	2249.5	5354.4	6517.8	6825.6
50°	589.0	622.3	658.0	684.8	661.3	738.5	1049.6	2355.9	5656.7	6805.4	7001.9
52.5°	614.9	655.6	684.1	690.5	638.6	714.1	1038.2	2541.9	6014.1	7059.6	7179.9
55°	644.2	686.4	717.4	713.3	626.4	683.2	1035.8	2740.1	6405.6	7356.1	7411.4
57.5°	633.7	695.4	742.5	721.4	627.1	653.1	1025.3	2900.2	6733.0	7577.9	7640.5
58°	630.4	692.1	745.8	719.8	624.7	644.2	1022.8	2914.1	6778.5	7593.4	7672.9
60°	598.7	663.7	743.4	707.6	610.9	619.8	996.0	2958.7	6766.3	7513.7	7692.5
62.5°	541.0	594.7	687.3	648.2	568.7	587.4	935.9	2903.5	6436.5	7130.3	7407.4
65°	476.1	515.9	577.6	570.3	508.6	554.1	853.8	2684.9	5776.1	6508.0	6799.7
67.5°	427.3	459.8	498.8	488.3	457.3	509.4	765.2	2315.3	5035.2	5760.6	6127.9
70°	377.8	402.9	422.4	415.1	405.4	465.5	686.4	1879.0	4325.2	5050.6	5406.5
72.5°	327.4	350.9	367.2	356.7	350.9	419.2	622.3	1458.2	3416.1	4166.7	4624.1
75°	273.7	297.3	308.7	296.5	293.3	369.6	527.2	1089.4	2563.1	3212.2	3607.0
77.5°	212.0	237.2	251.9	247.8	249.4	303.9	425.7	745.8	1832.7	2189.4	2605.3
80°	148.7	176.3	186.0	182.0	193.3	231.5	300.6	473.7	1264.1	1420.9	1714.1
82.5°	91.8	117.8	119.4	123.5	131.6	171.4	226.6	288.4	793.7	820.5	1033.3
85°	46.3	56.1	60.1	66.6	73.9	104.8	129.2	178.7	511.0	386.7	577.6
87.5°	15.5	16.2	19.5	24.4	30.0	43.1	55.3	73.1	126.7	69.9	178.7
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°	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3	3090.3
2.5°	3460.0	3529.0	3579.4	3625.6	3581.0	3576.9	3533.0	3462.4	3433.1	3433.1
5°	3663.8	3825.5	3956.3	4040.0	4004.3	3918.1	3776.0	3594.8	3497.3	3480.2
7.5°	3719.9	4039.2	4282.1	4368.2	4308.1	4118.0	3845.8	3540.4	3400.7	3369.8
10°	3685.8	4100.9	4457.6	4594.0	4510.4	4222.7	3851.5	3477.0	3304.8	3269.1
12.5°	3650.0	4109.0	4490.0	4687.5	4633.1	4307.3	3893.0	3435.6	3236.5	3185.4
15°	3676.0	4112.3	4450.2	4654.2	4689.1	4408.8	3961.2	3465.7	3222.7	3168.3
17.5°	3840.2	4174.1	4393.4	4558.3	4680.9	4547.0	4155.4	3609.4	3346.3	3278.8
20°	4183.0	4321.9	4425.8	4553.4	4750.8	4828.9	4552.6	4004.3	3693.1	3633.8
22.5°	5175.7	5150.5	4937.7	4935.2	5221.2	5533.9	5515.3	4806.9	4339.0	4290.2
25°	5547.7	5430.8	5122.9	5048.2	5174.1	5656.7	5586.8	4971.0	4538.8	4420.2
27.5°	5402.3	5112.4	4910.1	4893.0	4851.6	5307.3	5475.5	5037.6	4608.7	4493.3
30°	5393.4	4966.9	4677.7	4711.9	4751.6	5187.1	5537.2	5246.4	4787.4	4663.9
32.5°	5415.4	4987.2	4694.8	4701.3	4819.9	5204.9	5605.4	5473.8	5022.2	4898.7
35°	5503.9	5102.6	4803.6	4788.2	4973.4	5321.9	5721.7	5831.3	5343.0	5202.5
37.5°	5646.9	5332.5	5002.7	4998.6	5267.5	5533.2	5866.2	6192.0	5662.3	5511.2
40°	5857.3	5601.4	5356.8	5335.0	5667.2	5876.8	6053.9	6576.3	6033.6	5839.4
42.5°	6111.5	5923.9	5824.0	5910.9	6230.2	6262.7	6346.4	6931.3	6349.6	6123.7
45°	6347.2	6338.2	6477.1	6707.9	6893.9	6698.9	6651.8	7169.3	6595.0	6349.6
47.5°	6627.4	6869.5	7288.7	7626.7	7821.6	7206.7	6912.6	7324.4	6773.7	6547.9
50°	6911.8	7505.6	8175.0	8646.2	8687.6	7758.3	7092.2	7470.7	6936.1	6701.3
52.5°	7210.7	8013.4	8904.6	9452.1	9371.7	8238.4	7266.0	7569.8	7103.5	6897.1
55°	7470.7	8324.5	9312.4	9838.0	9720.2	8530.9	7453.6	7677.1	7342.4	7168.5
57.5°	7616.1	8350.5	9210.8	9669.8	9542.2	8474.0	7539.7	7756.6	7495.1	7358.6
58°	7637.2	8315.6	9120.6	9572.3	9442.3	8426.1	7539.0	7753.4	7504.8	7367.5
60°	7618.5	8088.9	8785.2	9187.3	9050.8	8125.5	7508.0	7692.5	7381.4	7265.1
62.5°	7445.5	7695.7	8205.9	8498.4	8459.4	7656.0	7381.4	7462.5	7005.2	6893.1
65°	7218.1	7159.5	7464.2	7671.3	7700.6	7304.2	7255.4	6965.4	6522.6	6364.3
67.5°	6941.9	6551.9	6551.1	6668.9	6717.6	6763.1	6993.0	6425.2	5827.2	5659.8
70°	6473.1	5615.2	5356.8	5495.8	5455.1	5839.4	6524.2	5666.4	4988.9	4793.1
72.5°	5613.6	4456.0	4042.4	4221.1	4118.8	4579.4	5708.6	4663.1	4125.3	3884.8
75°	4550.1	3333.2	2906.7	3070.8	3007.4	3473.8	4750.1	3386.9	2958.7	2866.9
77.5°	3533.0	2415.2	2167.4	2144.7	2191.8	2585.0	3484.3	2286.8	1950.5	1888.0
80°	2269.8	1728.8	1743.4	1714.1	1738.5	1629.6	2115.5	1459.1	1321.0	1270.6
82.5°	1494.0	1204.7	1436.3	1325.8	1259.2	1095.9	1387.6	955.4	810.7	783.1
85°	1017.9	887.1	807.5	617.4	727.0	844.0	1040.7	514.3	407.8	369.6
87.5°	459.8	308.7	226.6	139.7	220.9	255.1	505.3	60.1	46.3	47.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)