

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: P532580

Luminaire Tested: **GALN-SA8A-722-U-SLR-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532580  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-722-U-SLR-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20218 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

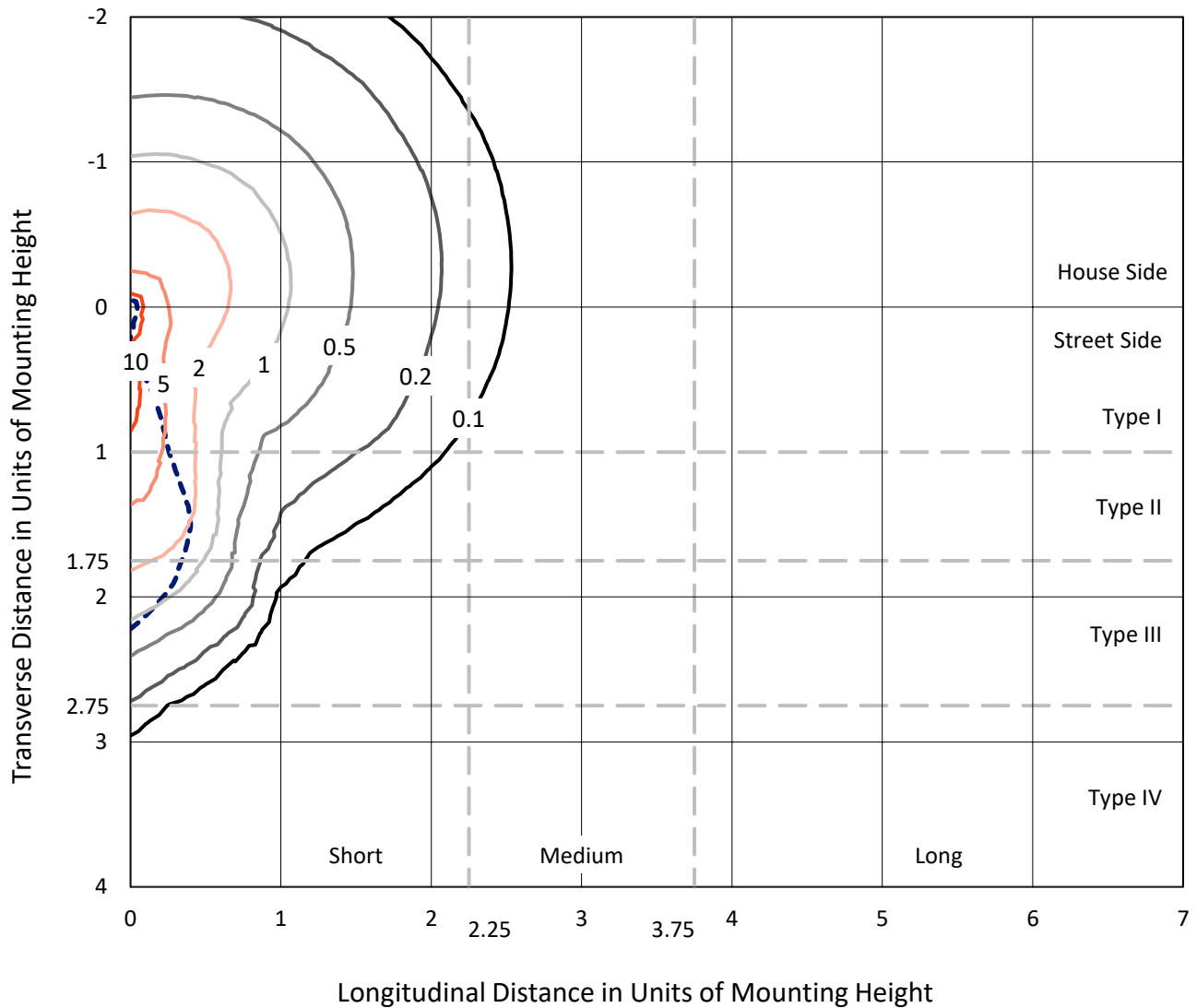
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

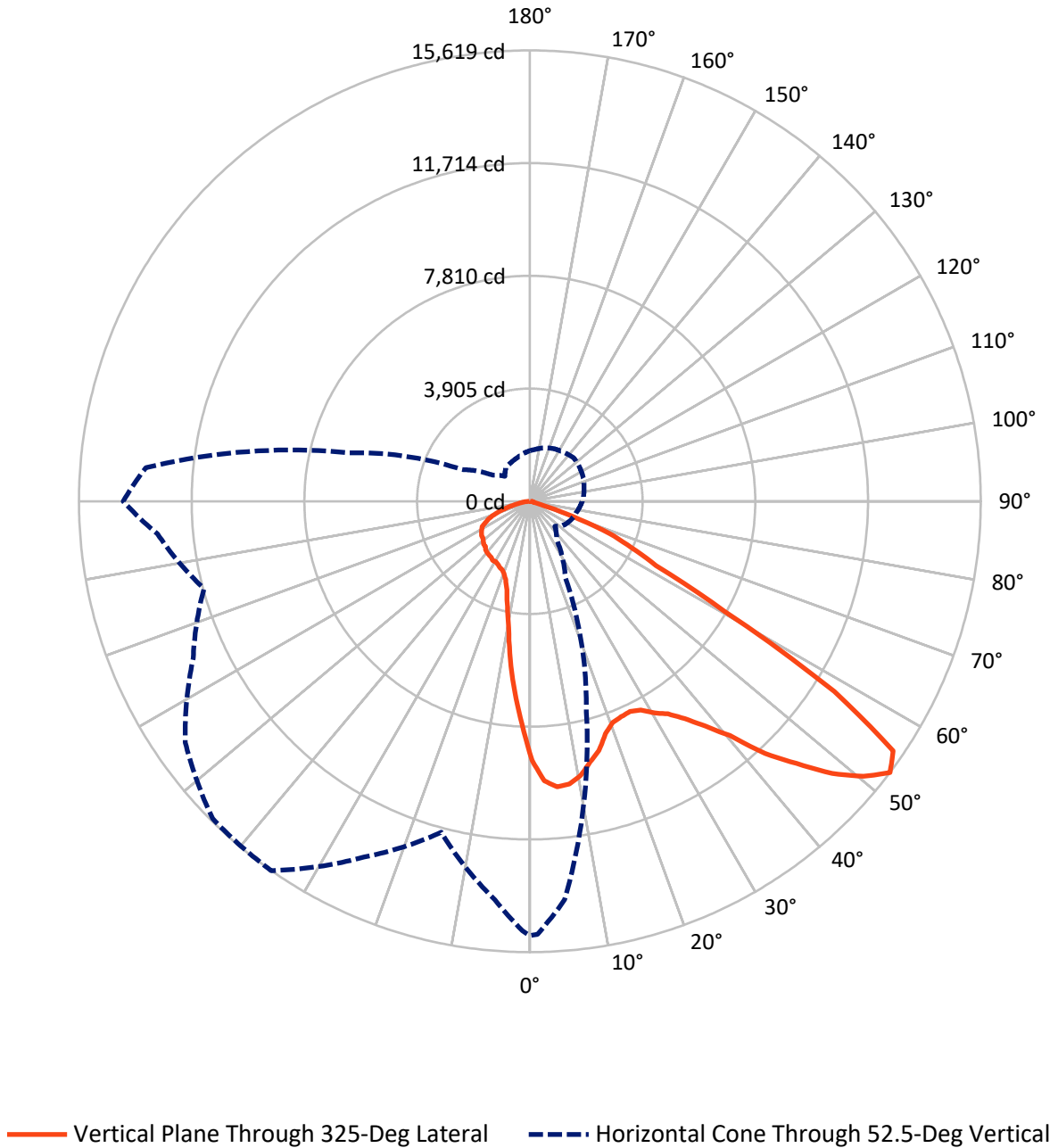
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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	6094.9	0.0	6094.9
	% Fixture	30.1	0.0	30.1
<b>Street Side</b>	Lumens	14123.1	0.0	14123.1
	% Fixture	69.9	0.0	69.9
<b>Total</b>	Lumens	20218.0	0.0	20218.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	684.6	3.4
10°-20°	1484.0	7.3
20°-30°	2242.2	11.1
30°-40°	3240.1	16.0
40°-50°	4312.0	21.3
50°-60°	4823.1	23.9
60°-70°	2718.2	13.4
70°-80°	605.9	3.0
80°-90°	107.9	0.5
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°	20218.0	100.0
0°-180°	20218.0	100.0

**Coefficient of Utilization**



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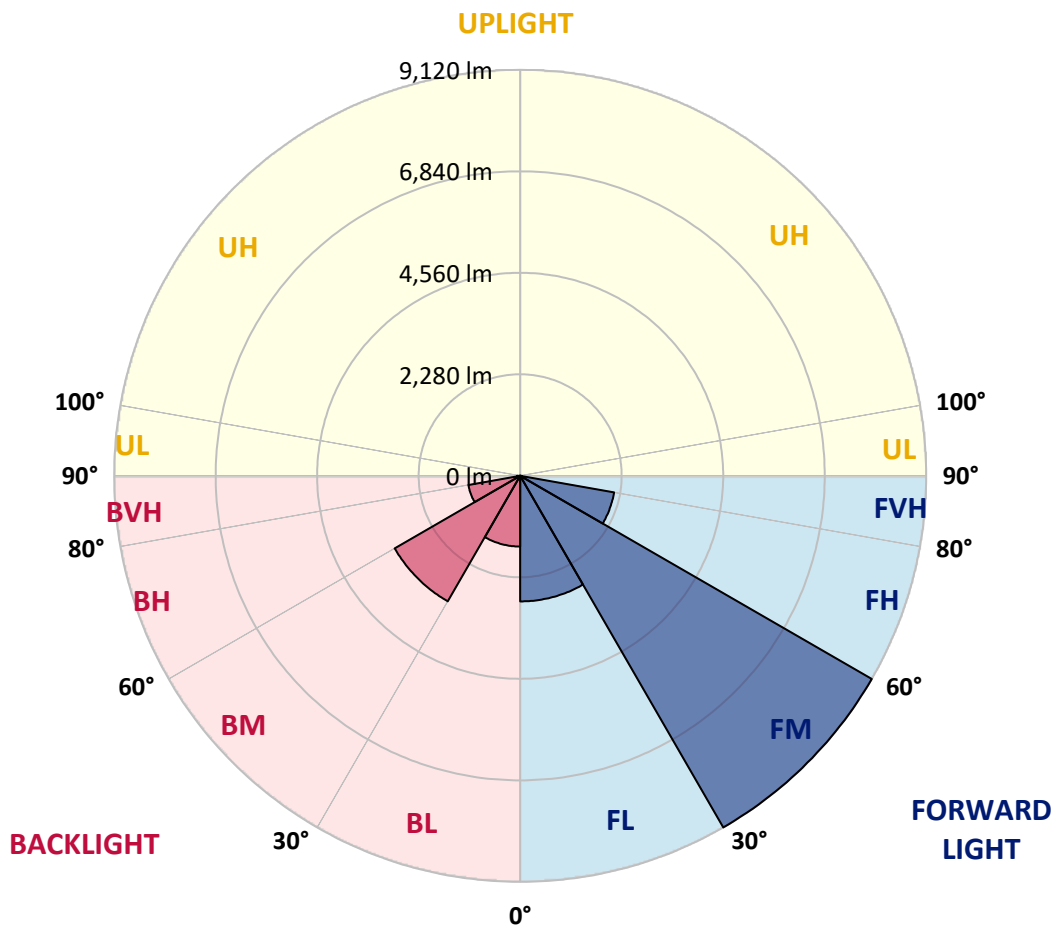
CATALOG NUMBER: GALN-SA8A-722-U-SLR-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2821.4	14.0			
FM (30°-60°)	9119.9	45.1			
FH (60°-80°)	2142.8	10.6			G2/5000
FVH (80°-90°)	39.1	0.2			G1/100
BL (0°-30°)	1589.4	7.9	B3/2500		
BM (30°-60°)	3255.3	16.1	B3/5000		
BH (60°-80°)	1181.4	5.8	B3/2500		G3/2500
BVH (80°-90°)	68.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8972.9	8972.9	8972.9	8972.9	8972.9	8972.9	8972.9	8972.9	8972.9	8972.9	8972.9
2.5°	9122.3	9268.8	9110.6	8829.3	8630.0	8448.3	8257.9	8219.8	7970.7	7926.7	7745.0
5°	8603.6	8571.4	8378.0	8008.8	7601.4	7232.2	6959.7	6696.0	6517.2	6309.1	6294.5
7.5°	7973.6	7786.1	7674.7	7115.0	6611.0	6030.8	5781.7	5380.2	5254.2	5066.7	4970.0
10°	7411.0	7273.2	7012.4	6452.7	5749.4	5365.6	5098.9	4882.0	4735.5	4542.1	4298.9
12.5°	7132.6	7076.9	6783.9	5916.5	5394.9	4984.6	4797.1	4586.1	4337.0	4026.4	3906.2
15°	7182.4	6994.9	6772.1	5813.9	5093.0	4697.4	4398.5	4134.8	3815.4	3519.4	3346.5
17.5°	7554.6	7411.0	6965.6	5878.4	4978.7	4407.3	3865.2	3475.4	3188.3	2921.6	2801.5
20°	8287.2	8079.1	7578.0	5960.4	4732.6	4002.9	3381.7	2901.1	2593.4	2452.7	2411.7
22.5°	9098.9	8975.8	8175.8	6145.0	4536.3	3627.8	2868.9	2388.3	2274.0	2235.9	2312.1
25°	10086.4	9767.0	9104.7	6446.9	4383.9	3308.4	2435.2	2168.5	2109.9	2148.0	2235.9
27.5°	10836.6	10751.6	9755.3	6731.1	4175.8	2924.5	2191.9	2016.1	2033.7	2071.8	2153.8
30°	11727.4	11296.7	10385.3	6927.5	3988.3	2660.8	2022.0	1975.1	1992.7	2057.1	2098.2
32.5°	12263.7	12102.5	10780.9	7223.4	3771.4	2432.2	1890.1	1846.1	1872.5	1969.2	2065.9
35°	12946.5	12627.1	11270.3	7299.6	3619.0	2341.4	1796.3	1764.1	1825.6	1893.0	2001.5
37.5°	13743.6	13523.8	11947.2	7246.9	3537.0	2247.6	1717.2	1702.6	1746.5	1840.3	1966.3
40°	14215.4	14148.0	12301.8	7279.1	3408.1	2165.6	1626.4	1644.0	1734.8	1808.1	1931.1
42.5°	14669.6	14230.0	12826.3	7267.4	3326.0	2054.2	1635.2	1614.6	1685.0	1770.0	1887.2
45°	14769.2	14332.6	12949.4	7185.3	3226.4	1945.8	1567.8	1576.6	1661.5	1767.0	1843.2
47.5°	14704.7	14382.4	13178.0	7161.9	3132.6	1869.6	1468.1	1573.6	1623.4	1708.4	1816.8
50°	14660.8	14643.2	13371.4	7273.2	3006.6	1749.4	1348.0	1535.5	1585.3	1670.3	1787.5
52.5°	15047.6	15009.5	13854.9	7566.3	2907.0	1620.5	1224.9	1438.8	1559.0	1641.0	1755.3
55°	15282.0	15115.0	14684.2	7926.7	2739.9	1450.5	1139.9	1318.7	1494.5	1567.8	1685.0
57.5°	13746.5	13632.2	13283.5	7399.2	2458.6	1227.8	1034.4	1195.6	1406.6	1520.9	1641.0
60°	11437.3	11258.6	10364.8	6288.6	1813.9	955.3	970.0	1098.9	1383.1	1427.1	1567.8
62.5°	10783.9	10341.4	9125.3	5060.8	1391.9	820.5	870.3	1011.0	1260.1	1333.3	1474.0
65°	8556.8	8228.6	6528.9	3654.2	931.9	712.1	794.1	911.4	1087.2	1230.8	1359.7
67.5°	5356.8	5043.2	3484.2	1728.9	650.5	609.5	709.2	832.2	975.8	1104.8	1248.3
70°	2798.5	2455.7	1608.8	624.2	448.4	498.2	591.9	709.2	849.8	955.3	1066.7
72.5°	1043.2	846.9	524.5	269.6	310.6	381.0	480.6	565.6	665.2	794.1	855.7
75°	161.2	137.7	134.8	164.1	211.0	275.5	342.9	427.8	515.7	597.8	638.8
77.5°	76.2	73.3	82.1	108.4	140.7	196.3	249.1	331.1	401.5	454.2	477.7
80°	49.8	46.9	52.7	73.3	105.5	146.5	199.3	254.9	319.4	363.4	357.5
82.5°	29.3	32.2	32.2	49.8	73.3	105.5	143.6	193.4	237.4	275.5	252.0
85°	17.6	14.7	14.7	29.3	49.8	85.0	120.1	82.1	85.0	85.0	96.7
87.5°	5.9	5.9	5.9	2.9	5.9	5.9	8.8	14.7	17.6	20.5	26.4
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8972.9	8972.9	8972.9	8972.9	8972.9	8972.9	8972.9	8972.9	8972.9	8972.9	8972.9
2.5°	7739.2	7830.0	7797.8	7683.5	7771.4	7786.1	7727.5	7929.7	7967.7	7906.2	7923.8
5°	6274.0	6297.4	6350.2	6461.5	6540.6	6634.4	6634.4	6640.3	6561.2	6760.4	6701.8
7.5°	4887.9	4902.6	4964.1	5201.5	5268.9	5447.6	5523.8	5471.0	5312.8	5245.4	5301.1
10°	4219.8	4134.8	4114.3	4143.6	4296.0	4372.2	4436.6	4419.0	4392.7	4339.9	4281.3
12.5°	3774.4	3712.8	3663.0	3592.7	3601.5	3674.7	3724.5	3683.5	3695.2	3707.0	3724.5
15°	3290.8	3246.9	3220.5	3115.0	3103.3	3153.1	3170.7	3194.1	3238.1	3241.0	3220.5
17.5°	2778.0	2739.9	2798.5	2857.1	2816.1	2819.0	2851.3	2871.8	2860.1	2807.3	2780.9
20°	2426.4	2467.4	2526.0	2581.7	2625.6	2652.0	2663.7	2631.5	2593.4	2485.0	2482.0
22.5°	2323.8	2376.6	2426.4	2511.3	2552.4	2619.8	2558.2	2485.0	2432.2	2379.5	2317.9
25°	2247.6	2291.6	2391.2	2423.4	2502.6	2558.2	2514.3	2441.0	2350.2	2274.0	2227.1
27.5°	2191.9	2241.8	2306.2	2394.1	2455.7	2487.9	2444.0	2414.6	2320.9	2230.0	2162.6
30°	2156.8	2209.5	2326.7	2400.0	2452.7	2479.1	2402.9	2367.8	2300.4	2224.2	2165.6
32.5°	2133.3	2180.2	2279.8	2373.6	2408.8	2408.8	2420.5	2379.5	2285.7	2156.8	2107.0
35°	2057.1	2121.6	2203.7	2312.1	2376.6	2414.6	2356.0	2309.2	2247.6	2115.7	2024.9
37.5°	2013.2	2057.1	2162.6	2265.2	2320.9	2361.9	2338.5	2256.4	2174.4	2065.9	1992.7
40°	1966.3	2036.6	2130.4	2227.1	2288.6	2329.7	2312.1	2215.4	2115.7	2013.2	1963.4
42.5°	1934.1	1980.9	2077.7	2186.1	2259.3	2338.5	2285.7	2165.6	2095.2	1954.6	1898.9
45°	1907.7	1983.9	2086.4	2130.4	2206.6	2288.6	2194.9	2121.6	2039.6	1937.0	1890.1
47.5°	1875.5	1945.8	2013.2	2130.4	2165.6	2203.7	2186.1	2068.9	1998.5	1887.2	1854.9
50°	1863.7	1890.1	2013.2	2077.7	2127.5	2165.6	2118.7	2030.8	1963.4	1849.1	1778.8
52.5°	1816.8	1866.7	1945.8	2030.8	2092.3	2139.2	2063.0	2007.3	1916.5	1796.3	1752.4
55°	1758.2	1787.5	1928.2	2016.1	2048.3	2080.6	2051.3	1960.4	1866.7	1743.6	1699.6
57.5°	1682.0	1749.4	1863.7	1986.8	2027.8	2045.4	1998.5	1925.3	1808.1	1699.6	1629.3
60°	1602.9	1673.3	1799.3	1898.9	1939.9	2004.4	1934.1	1890.1	1755.3	1635.2	1559.0
62.5°	1523.8	1602.9	1696.7	1822.7	1857.9	1884.2	1866.7	1805.1	1696.7	1561.9	1468.1
65°	1430.0	1488.6	1605.9	1670.3	1693.8	1755.3	1693.8	1670.3	1573.6	1444.7	1365.6
67.5°	1289.4	1339.2	1441.8	1503.3	1520.9	1547.2	1544.3	1517.9	1409.5	1321.6	1251.3
70°	1128.2	1172.2	1236.6	1309.9	1318.7	1350.9	1321.6	1315.7	1245.4	1125.3	1087.2
72.5°	905.5	946.5	1031.5	1063.7	1066.7	1078.4	1063.7	1043.2	1025.6	899.6	861.5
75°	694.5	717.9	759.0	788.3	788.3	802.9	794.1	773.6	726.7	647.6	609.5
77.5°	483.5	507.0	559.7	577.3	574.4	580.2	553.8	533.3	463.0	422.0	389.7
80°	351.6	366.3	392.7	404.4	407.3	416.1	383.9	366.3	325.3	278.4	263.7
82.5°	254.9	263.7	266.7	281.3	281.3	266.7	257.9	240.3	211.0	181.7	170.0
85°	105.5	108.4	111.4	128.9	131.9	158.2	146.5	137.7	120.1	102.6	93.8
87.5°	26.4	29.3	38.1	32.2	38.1	38.1	41.0	46.9	46.9	38.1	38.1
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°	8972.9	8972.9	8972.9	8972.9	8972.9	8972.9	8972.9	8972.9	8972.9	8972.9	8972.9
2.5°	7991.2	8014.6	8313.5	8351.6	8498.1	8647.6	8949.4	9166.3	9342.1	9456.4	9488.6
5°	6763.4	6912.8	7050.5	7273.2	7475.4	7762.6	8093.8	8504.0	9019.8	9283.5	9389.0
7.5°	5295.2	5471.0	5670.3	5887.2	6183.1	6698.9	7141.4	7616.1	8275.4	8548.0	8961.2
10°	4322.3	4518.7	4782.4	4949.4	5306.9	5799.3	6315.0	6863.0	7493.0	7885.7	8363.4
12.5°	3821.2	3982.4	4225.6	4577.3	4843.9	5163.4	5547.2	6238.8	7141.4	7513.5	7841.7
15°	3267.4	3446.1	3727.5	4117.2	4436.6	4817.6	5248.3	6001.5	6962.6	7537.0	7815.4
17.5°	2810.2	2939.2	3235.2	3572.2	3938.5	4354.6	4972.9	5989.7	7150.2	7885.7	8339.9
20°	2493.8	2511.3	2672.5	2959.7	3457.9	4000.0	4802.9	5931.1	7750.9	8486.4	9060.8
22.5°	2294.5	2276.9	2279.8	2523.1	2871.8	3651.3	4536.3	6130.4	8433.7	9441.7	9828.5
25°	2194.9	2148.0	2118.7	2171.4	2487.9	3238.1	4334.1	6394.1	9169.2	10230.0	10704.7
27.5°	2142.1	2060.1	2001.5	2010.3	2241.8	3030.0	4208.0	6508.4	9898.9	11328.9	11495.9
30°	2121.6	2019.0	1934.1	1904.8	2057.1	2739.9	3938.5	6704.7	10552.4	11932.6	12076.2
32.5°	2048.3	1922.3	1840.3	1813.9	1875.5	2485.0	3745.0	6845.4	11129.6	12589.0	12539.2
35°	1963.4	1857.9	1755.3	1705.5	1749.4	2320.9	3589.7	6778.0	11809.5	13098.9	13072.5
37.5°	1954.6	1816.8	1731.9	1649.8	1646.9	2118.7	3378.7	6842.5	12243.2	14013.2	13652.7
40°	1878.4	1790.5	1679.1	1611.7	1573.6	2016.1	3173.6	6690.1	12879.1	14382.4	14027.8
42.5°	1881.3	1749.4	1652.7	1573.6	1535.5	1866.7	3033.0	6649.1	13101.8	14983.1	14203.6
45°	1834.4	1705.5	1623.4	1529.7	1509.2	1752.4	2898.2	6458.6	13494.5	15012.4	13983.8
47.5°	1787.5	1673.3	1585.3	1474.0	1427.1	1711.4	2792.7	6300.4	13289.3	14737.0	13679.1
50°	1755.3	1623.4	1541.4	1462.3	1330.4	1641.0	2654.9	6262.3	13002.2	14364.8	13113.5
52.5°	1699.6	1582.4	1497.4	1435.9	1224.9	1576.6	2602.2	6485.0	13353.8	14086.4	12949.4
55°	1646.9	1526.7	1418.3	1298.2	1137.0	1406.6	2455.7	6693.0	13866.6	14728.2	13693.7
57.5°	1591.2	1476.9	1359.7	1216.1	1052.0	1230.8	2303.3	6731.1	12905.5	13611.7	12999.2
60°	1517.9	1371.4	1283.5	1096.0	961.2	1019.8	1825.6	5934.1	10010.2	11367.0	11387.5
62.5°	1435.9	1277.7	1201.5	981.7	867.4	879.1	1488.6	4987.5	8120.1	9409.5	9969.2
65°	1327.5	1175.1	1084.2	908.4	800.0	761.9	1090.1	3654.2	6168.5	7633.7	8269.6
67.5°	1186.8	1043.2	928.9	791.2	715.0	653.5	744.3	2057.1	3642.5	5125.3	5318.7
70°	1037.4	914.3	794.1	679.9	594.9	550.9	545.1	911.4	1740.7	2757.5	3138.5
72.5°	817.6	729.7	633.0	548.0	492.3	427.8	389.7	378.0	589.0	1122.3	1550.2
75°	586.1	512.8	457.1	401.5	360.4	325.3	296.0	269.6	246.2	281.3	386.8
77.5°	369.2	342.9	298.9	284.2	260.8	252.0	240.3	225.6	208.1	196.3	196.3
80°	249.1	231.5	216.8	213.9	205.1	202.2	205.1	190.5	172.9	158.2	164.1
82.5°	167.0	164.1	161.2	158.2	161.2	164.1	170.0	167.0	152.4	143.6	146.5
85°	99.6	105.5	111.4	117.2	128.9	114.3	93.8	79.1	70.3	64.5	61.5
87.5°	38.1	52.7	46.9	44.0	46.9	44.0	41.0	38.1	32.2	29.3	29.3
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8972.9	8972.9	8972.9	8972.9	8972.9	8972.9	8972.9	8972.9	8972.9	8972.9
2.5°	9702.5	9761.1	9811.0	9799.2	9696.7	9559.0	9503.3	9219.0	9160.4	9122.3
5°	9834.4	10174.3	10247.6	10203.6	9937.0	9600.0	9271.8	8855.7	8612.4	8603.6
7.5°	9591.2	10010.2	10142.1	10241.7	9887.2	9301.1	8738.4	8114.3	7961.9	7973.6
10°	8972.9	9641.0	9966.3	10068.8	9661.5	9154.6	8375.1	7742.1	7416.8	7411.0
12.5°	8630.0	9154.6	9245.4	9389.0	9268.8	8756.0	8164.1	7454.9	7138.4	7132.6
15°	8325.3	8671.0	8697.4	8899.6	8964.1	8618.3	8219.8	7463.7	7208.8	7182.4
17.5°	8591.9	8351.6	8252.0	8278.4	8468.8	8594.9	8542.1	7961.9	7701.1	7554.6
20°	8770.7	8234.4	7932.6	7961.9	8187.5	8647.6	9022.7	8682.8	8269.6	8287.2
22.5°	9248.3	8252.0	7780.2	7748.0	8105.5	8923.1	9564.8	9594.1	9195.6	9098.9
25°	9963.3	8454.2	7733.3	7724.5	8067.4	9219.0	10197.8	10672.5	10265.2	10086.4
27.5°	10537.7	8770.7	7879.8	7909.1	8187.5	9459.3	10737.0	11367.0	11056.4	10836.6
30°	11041.7	9098.9	8085.0	7950.2	8509.9	9585.3	10968.5	12158.2	11909.1	11727.4
32.5°	11249.8	9564.8	8410.2	8187.5	8776.5	9737.7	11449.1	12926.0	12712.1	12263.7
35°	11601.4	9825.6	8586.1	8568.5	9242.5	10104.0	11674.7	13432.9	13345.0	12946.5
37.5°	11882.8	10089.4	9210.2	9016.8	9881.3	10719.4	12038.1	14133.3	13931.1	13743.6
40°	12099.6	10561.1	9793.4	10048.3	10666.6	11279.1	12372.1	14177.3	14760.4	14215.4
42.5°	11900.3	10983.1	10751.6	11361.1	11947.2	11917.9	12410.2	14517.2	14953.8	14669.6
45°	11850.5	11698.1	12266.6	12820.5	12955.3	12448.3	12137.7	14142.1	14895.2	14769.2
47.5°	11730.4	12401.4	13391.9	14294.5	14089.3	12802.9	11812.4	14074.7	14930.4	14704.7
50°	11689.3	12553.8	14224.1	15103.3	14980.2	13110.6	11660.0	13641.0	14681.3	14660.8
52.5°	11686.4	12867.4	14569.9	15542.8	15619.0	13597.0	11868.1	13860.8	14874.7	15047.6
55°	11818.3	12767.7	14526.0	15299.6	15270.3	13380.2	11891.5	14007.3	15112.1	15282.0
57.5°	11147.2	11437.3	11988.3	12600.7	12442.5	11082.8	10619.8	12949.4	13869.6	13746.5
60°	9626.4	8717.9	8096.7	8067.4	7759.7	7334.8	8691.6	11557.5	11557.5	11437.3
62.5°	8430.7	5723.1	4917.2	4688.6	4908.4	5397.8	8383.9	11241.0	10921.6	10783.9
65°	7372.9	4369.2	3554.6	3490.1	3871.1	4609.5	7580.9	9576.5	9013.9	8556.8
67.5°	4744.3	3200.0	2643.2	2528.9	2989.0	3384.6	5046.1	5890.1	5535.5	5356.8
70°	3059.3	2083.5	1471.1	1380.2	1559.0	2086.4	3223.4	3434.4	2918.7	2798.5
72.5°	1447.6	899.6	515.7	424.9	477.7	797.1	1274.7	1371.4	1139.9	1043.2
75°	460.1	331.1	211.0	181.7	172.9	205.1	293.0	225.6	164.1	161.2
77.5°	205.1	196.3	167.0	140.7	123.1	102.6	85.0	70.3	73.3	76.2
80°	170.0	155.3	137.7	123.1	102.6	79.1	61.5	46.9	46.9	49.8
82.5°	149.5	134.8	120.1	102.6	87.9	64.5	46.9	32.2	29.3	29.3
85°	64.5	76.2	82.1	87.9	70.3	52.7	32.2	20.5	17.6	17.6
87.5°	26.4	23.4	20.5	17.6	14.7	14.7	11.7	8.8	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)