

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: P652236

Luminaire Tested: **GALN-SA2B-840-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652236  
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-SA2B-840-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 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: 8294.8 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2

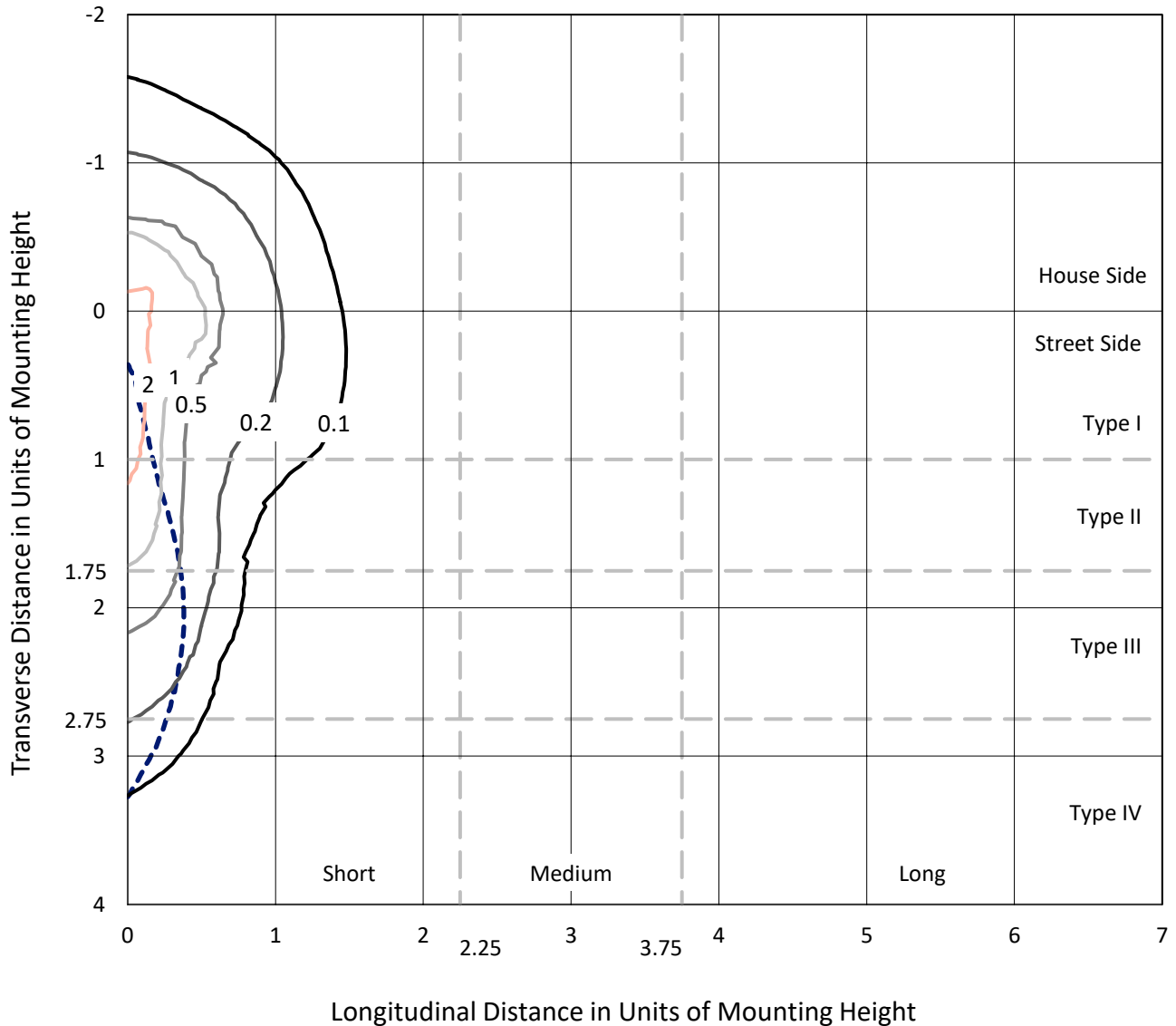
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

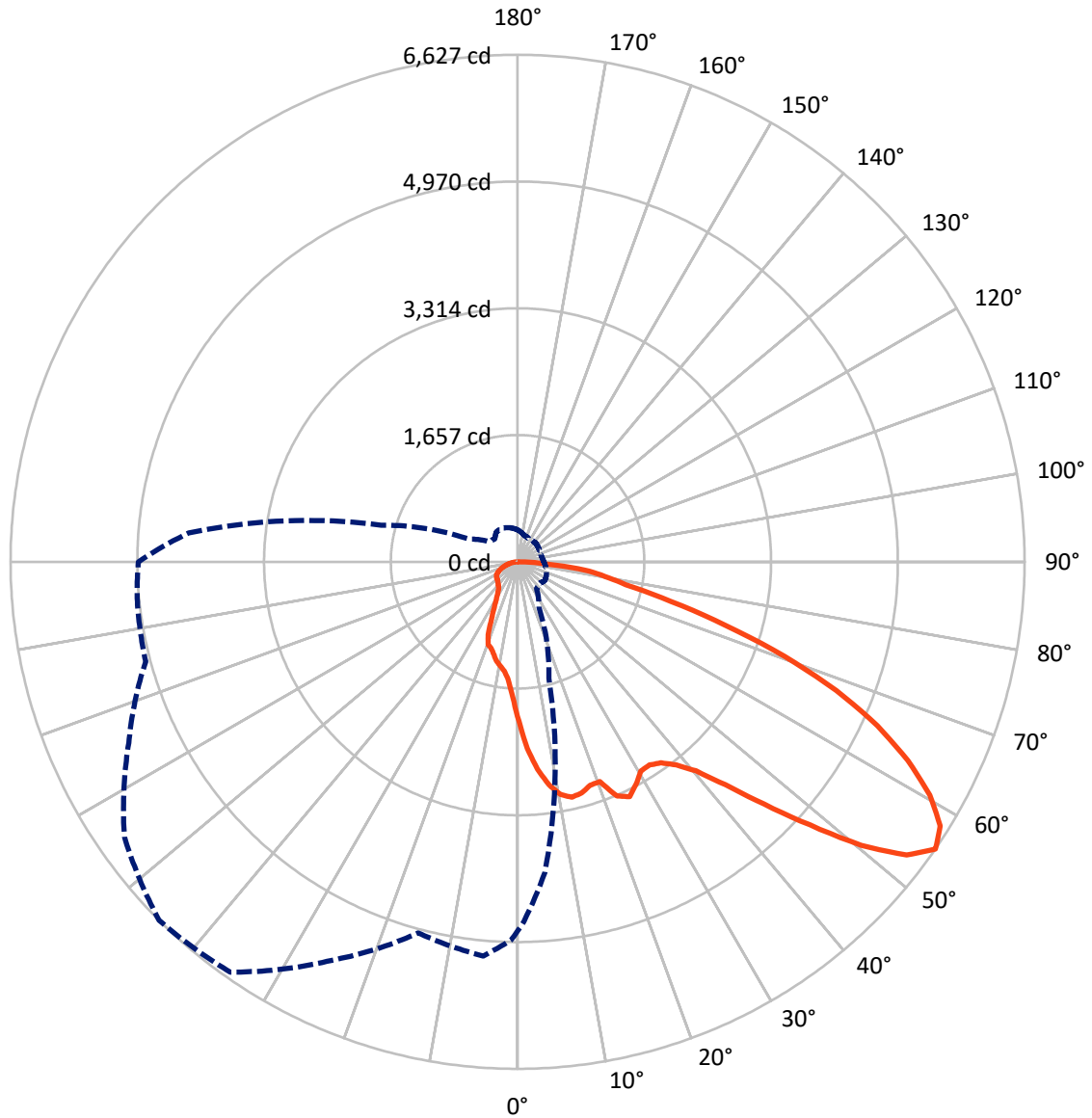
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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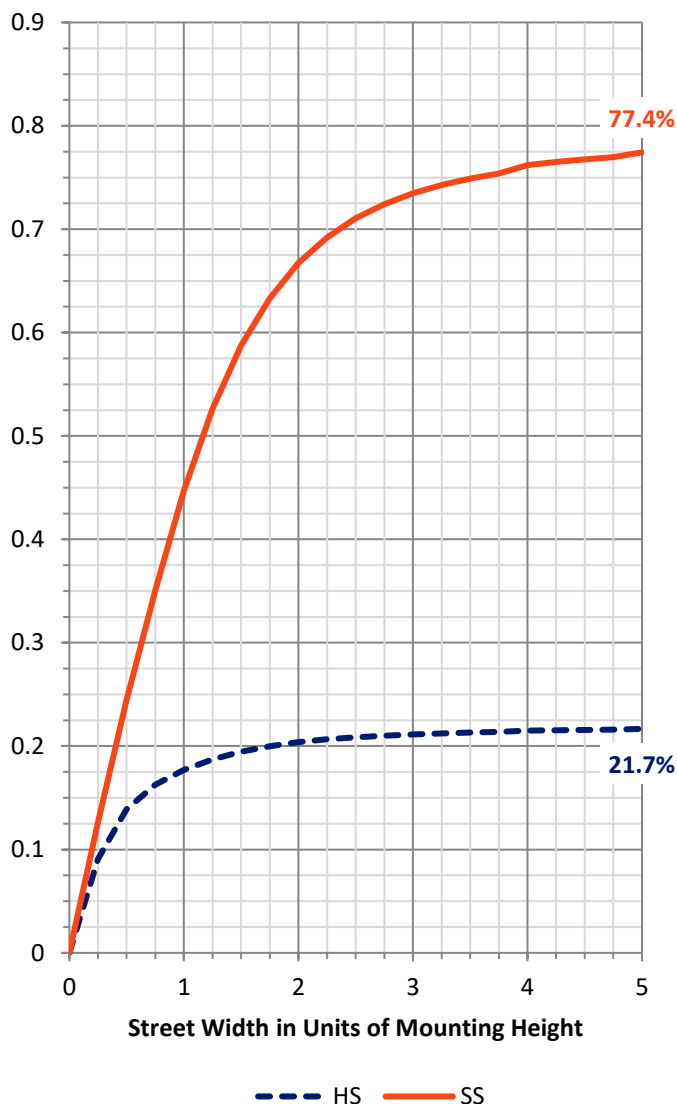
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1814.4	0.0	1814.4
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	6480.3	0.0	6480.3
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	8294.8	0.0	8294.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.4	2.1
10°-20°	468.1	5.6
20°-30°	808.6	9.7
30°-40°	939.7	11.3
40°-50°	1311.1	15.8
50°-60°	1779.0	21.4
60°-70°	1692.5	20.4
70°-80°	914.4	11.0
80°-90°	204.9	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°	8294.8	100.0
0°-180°	8294.8	100.0

**Coefficient of Utilization**

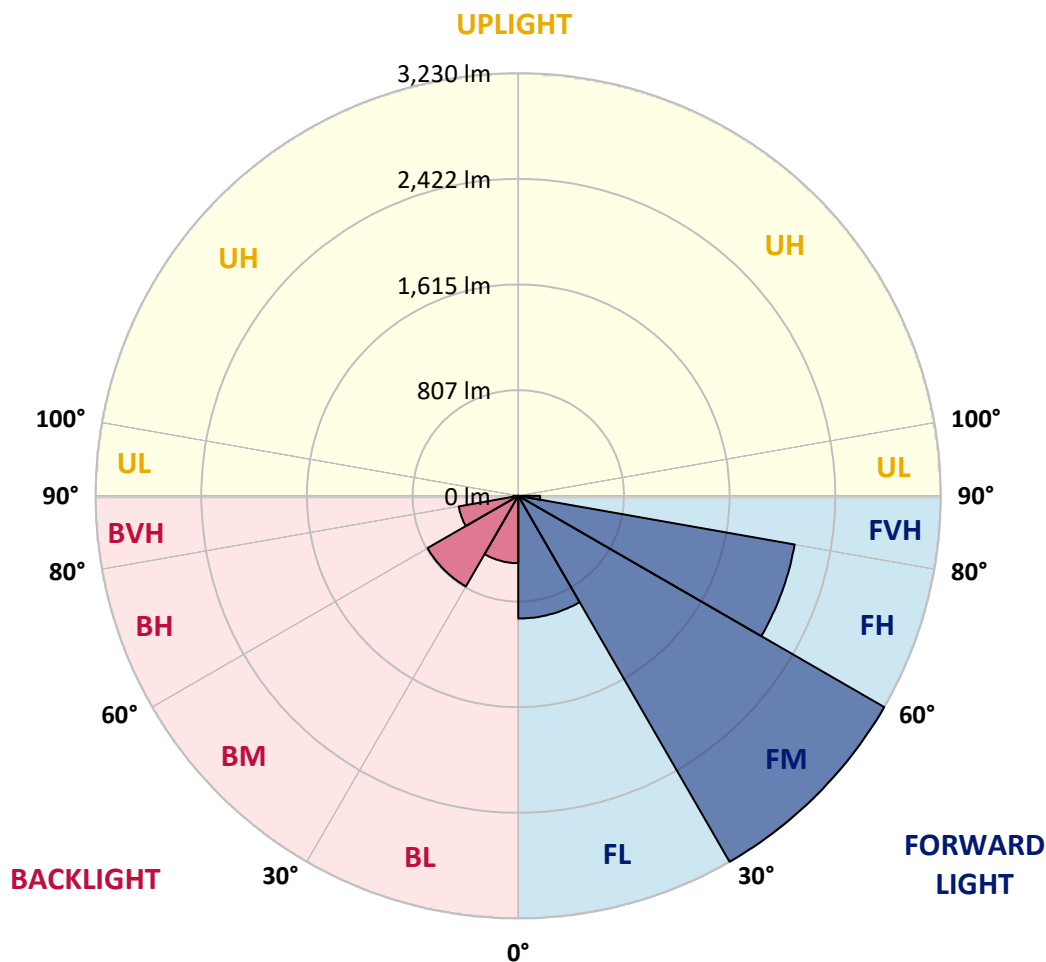


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	938.2	11.3			
FM (30°-60°)	3229.8	38.9			
FH (60°-80°)	2144.9	25.9			G2/5000
FVH (80°-90°)	167.5	2.0			G2/225
BL (0°-30°)	514.9	6.2	B2/1000		
BM (30°-60°)	800.1	9.6	B1/1000		
BH (60°-80°)	462.0	5.6	B1/500		G1/500
BVH (80°-90°)	37.4	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-G2**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2081.6	2081.6	2081.6	2081.6	2081.6	2081.6	2081.6	2081.6	2081.6	2081.6	2081.6
2.5°	2312.6	2303.8	2279.2	2214.6	2149.5	2083.3	2032.4	1968.9	1902.8	1867.2	1821.7
5°	2344.4	2334.4	2276.5	2130.9	1999.1	1860.5	1750.0	1653.2	1613.8	1555.8	1509.3
7.5°	2269.9	2265.6	2178.5	1969.5	1788.9	1607.7	1482.4	1404.7	1334.2	1307.9	1313.4
10°	2202.1	2184.6	2075.7	1802.6	1591.9	1444.7	1354.9	1278.9	1229.1	1215.9	1218.7
12.5°	2145.7	2122.2	1993.6	1690.4	1506.0	1388.3	1273.9	1194.6	1149.2	1161.8	1204.5
15°	2134.2	2102.5	1959.1	1652.1	1458.9	1307.3	1182.0	1090.6	1056.7	1084.0	1152.5
17.5°	2208.6	2168.7	2018.1	1664.7	1414.1	1224.7	1070.9	966.4	938.0	981.7	1070.9
20°	2447.7	2388.7	2202.6	1737.4	1409.7	1183.6	1006.3	901.3	913.3	996.5	1089.5
22.5°	2889.9	2801.3	2525.4	1843.6	1432.6	1173.3	993.2	938.5	1004.7	1075.3	1136.6
25°	2977.5	2908.0	2583.5	1867.7	1427.8	1166.1	1030.5	1057.8	1131.6	1166.7	1145.4
27.5°	3026.8	2947.4	2579.7	1748.4	1276.7	1057.8	985.0	1030.5	1049.1	1015.1	957.1
30°	3141.6	3059.1	2644.8	1623.0	1051.2	784.7	687.9	669.3	681.9	688.4	667.6
32.5°	3299.8	3218.3	2767.3	1541.0	909.0	649.0	553.8	527.6	521.5	514.4	506.2
35°	3504.4	3379.1	2887.7	1488.5	850.4	600.3	512.8	492.5	484.3	474.4	465.7
37.5°	3712.4	3581.1	3039.9	1433.2	811.6	566.4	485.4	476.1	461.9	451.4	438.9
40°	3933.5	3786.3	3178.3	1385.0	773.8	544.5	465.7	464.6	446.0	434.0	419.2
42.5°	4125.0	3973.5	3302.0	1355.5	744.8	521.5	453.6	456.9	437.8	419.7	400.6
45°	4277.2	4128.3	3416.4	1355.5	721.2	498.5	451.4	449.3	430.1	407.7	385.8
47.5°	4410.7	4256.9	3528.0	1390.0	706.4	479.4	439.4	443.3	423.5	395.1	373.7
50°	4514.1	4378.4	3678.4	1443.6	691.7	464.1	424.1	444.9	418.1	388.5	363.9
52.5°	4646.0	4524.5	3859.6	1516.9	679.1	447.1	410.4	444.9	417.6	389.0	362.3
55°	4828.8	4700.7	4077.9	1577.6	658.8	431.2	398.4	432.3	415.9	386.4	357.9
57.5°	4956.9	4861.1	4232.2	1618.2	629.8	411.0	387.4	420.2	408.8	375.9	344.7
58°	4962.8	4869.2	4254.7	1627.5	622.8	407.1	384.7	414.8	405.5	371.6	340.4
60°	4893.9	4813.5	4259.1	1614.3	582.2	388.0	370.5	392.3	388.0	345.8	316.8
62.5°	4643.2	4557.4	4082.4	1507.7	528.7	364.5	348.6	362.3	352.4	309.7	282.9
65°	4287.0	4128.9	3719.0	1340.1	490.3	339.3	319.1	320.2	309.7	279.1	255.6
67.5°	3812.6	3635.8	3148.8	1129.5	461.3	311.3	284.0	281.3	268.7	249.0	229.8
70°	3228.7	3107.7	2558.8	918.8	429.0	280.7	244.6	243.0	235.3	220.5	203.6
72.5°	2616.9	2463.1	2066.3	735.5	389.6	251.2	208.0	211.3	201.4	191.0	175.7
75°	1931.2	1830.5	1597.4	589.9	336.6	218.9	173.5	174.6	170.2	159.3	147.2
77.5°	1271.8	1241.7	1142.6	387.4	258.9	174.0	141.7	142.8	139.5	129.7	117.1
80°	855.9	835.6	774.3	249.5	172.9	125.9	109.4	110.5	110.0	99.6	82.7
82.5°	527.6	518.8	499.0	168.5	119.8	90.3	72.2	75.5	81.6	70.1	56.3
85°	249.0	249.5	301.5	91.9	70.6	58.0	39.4	42.1	42.1	42.1	31.7
87.5°	32.3	33.9	41.6	38.9	25.7	21.9	14.2	12.0	10.4	13.7	9.8
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2081.6	2081.6	2081.6	2081.6	2081.6	2081.6	2081.6	2081.6	2081.6	2081.6	2081.6
2.5°	1805.9	1794.9	1771.4	1765.9	1762.7	1771.9	1747.3	1753.9	1743.0	1773.6	1768.6
5°	1512.0	1513.1	1532.2	1544.8	1549.2	1544.8	1528.4	1499.9	1478.1	1469.3	1471.5
7.5°	1303.0	1322.1	1354.9	1391.6	1425.0	1434.8	1425.5	1371.3	1312.3	1275.0	1263.0
10°	1233.5	1259.1	1296.9	1325.9	1355.5	1379.0	1383.9	1341.8	1271.8	1183.6	1149.2
12.5°	1237.3	1272.3	1308.4	1317.8	1315.0	1324.3	1319.9	1312.8	1266.8	1154.7	1097.2
15°	1201.2	1242.7	1268.0	1263.0	1254.3	1246.0	1234.6	1216.5	1200.1	1121.3	1057.8
17.5°	1118.0	1160.7	1181.4	1183.1	1183.1	1180.9	1153.0	1146.5	1144.3	1105.9	1067.1
20°	1133.3	1156.9	1147.5	1132.2	1136.6	1151.4	1134.9	1131.6	1144.3	1161.3	1154.1
22.5°	1142.1	1133.8	1063.8	996.0	980.6	1026.6	1035.9	1072.6	1123.5	1184.7	1224.7
25°	1087.9	1021.6	896.3	819.7	776.5	819.2	875.1	942.8	1019.0	1097.8	1144.3
27.5°	909.5	859.2	769.4	700.5	662.7	669.3	716.9	778.7	849.3	902.4	936.3
30°	685.2	662.7	616.2	592.7	569.7	564.2	584.4	608.0	639.2	645.7	654.5
32.5°	504.5	501.2	504.0	496.4	492.0	491.4	485.4	490.9	494.2	498.0	490.3
35°	456.4	452.0	444.4	442.2	439.4	440.5	437.8	435.0	437.2	440.5	442.7
37.5°	431.8	425.2	414.3	410.4	410.4	412.1	407.7	406.6	410.4	420.8	426.3
40°	412.6	404.9	392.3	387.4	390.7	395.1	389.0	386.9	396.2	407.1	415.9
42.5°	394.5	388.5	376.5	371.0	373.7	382.0	373.2	371.6	383.6	395.6	406.0
45°	379.2	373.2	362.3	359.5	360.6	368.3	362.3	362.3	373.7	386.9	396.2
47.5°	367.2	359.5	352.4	350.2	351.3	355.7	354.6	354.6	365.6	379.2	388.5
50°	355.2	348.6	339.3	340.4	343.1	349.1	348.6	350.2	361.2	378.1	388.0
52.5°	349.7	339.8	329.4	330.5	338.8	345.8	343.6	345.3	357.9	389.6	403.8
55°	343.6	330.5	318.5	320.2	329.4	339.8	337.1	339.3	354.1	397.3	417.0
57.5°	332.2	316.8	303.7	304.8	318.5	329.4	325.0	327.8	345.3	389.0	409.9
58°	327.2	314.1	301.5	302.1	315.2	327.2	322.4	324.5	342.5	386.9	406.6
60°	306.5	298.8	287.9	288.4	301.0	311.3	308.6	310.8	328.3	371.0	385.8
62.5°	278.0	273.6	270.9	270.9	278.5	288.4	291.2	293.8	309.7	335.5	348.6
65°	247.3	247.3	247.9	247.9	252.8	265.4	267.0	274.2	289.0	301.5	311.3
67.5°	226.6	225.5	226.6	223.8	226.0	233.6	241.9	248.4	263.7	272.5	275.8
70°	199.7	199.2	199.7	195.9	198.6	205.2	210.7	221.6	237.5	244.1	245.7
72.5°	173.5	173.5	174.6	171.8	171.8	179.0	182.7	194.8	209.6	213.4	214.0
75°	146.1	147.8	147.8	143.9	145.0	149.4	154.3	164.2	177.9	180.6	180.6
77.5°	116.0	122.0	122.0	118.2	119.8	120.4	127.0	131.9	142.3	143.4	139.0
80°	84.3	90.3	95.2	91.9	94.7	91.4	95.2	98.5	108.9	103.9	96.9
82.5°	60.2	64.6	68.4	69.0	66.2	60.2	65.1	65.7	70.6	64.0	60.2
85°	33.4	37.2	42.1	39.9	35.6	31.7	33.4	34.5	33.9	32.3	30.1
87.5°	8.7	9.3	10.4	7.7	7.1	6.1	8.2	8.2	9.3	9.8	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°	2081.6	2081.6	2081.6	2081.6	2081.6	2081.6	2081.6	2081.6	2081.6	2081.6	2081.6
2.5°	1772.5	1796.5	1848.5	1888.0	1936.1	1994.7	2063.6	2133.1	2208.0	2231.6	2264.5
5°	1466.6	1526.8	1552.0	1623.6	1694.8	1801.5	1915.3	2047.2	2191.6	2261.2	2327.9
7.5°	1253.2	1285.5	1311.7	1364.3	1449.6	1579.3	1722.1	1886.9	2091.5	2192.7	2290.7
10°	1138.2	1141.5	1173.8	1239.0	1313.4	1427.8	1562.9	1747.3	1975.5	2098.6	2213.5
12.5°	1062.2	1048.0	1083.0	1150.8	1235.1	1340.7	1464.9	1640.6	1891.7	2018.1	2157.2
15°	995.4	973.0	999.3	1068.7	1151.9	1276.1	1409.7	1595.7	1858.9	2006.1	2160.4
17.5°	997.1	935.2	944.5	1003.1	1085.7	1212.1	1374.1	1594.1	1908.7	2078.4	2261.2
20°	1120.2	1021.1	979.0	989.9	1069.8	1207.8	1390.5	1670.7	2072.4	2319.7	2515.1
22.5°	1241.1	1181.4	1113.7	1091.2	1134.9	1279.4	1495.0	1851.8	2428.1	2800.7	3153.7
25°	1199.0	1249.9	1232.9	1201.2	1211.0	1330.9	1566.2	2000.7	2704.4	3124.1	3455.8
27.5°	959.3	1051.8	1070.4	1069.8	1073.7	1172.2	1408.6	1900.5	2738.9	3186.0	3502.8
30°	674.2	682.4	692.2	711.4	728.9	817.0	1102.1	1668.5	2723.6	3213.9	3531.3
32.5°	486.5	497.5	511.1	537.4	578.9	691.1	964.2	1594.6	2804.6	3329.4	3614.4
35°	444.9	457.5	470.6	500.7	540.1	644.1	909.5	1564.0	2937.5	3516.5	3763.9
37.5°	431.8	446.0	457.5	479.4	511.1	610.1	859.7	1543.2	3073.8	3714.6	3964.1
40°	422.4	438.9	448.2	465.7	487.6	578.9	815.3	1526.8	3205.6	3895.8	4125.0
42.5°	414.3	431.2	443.3	455.8	473.9	551.0	776.0	1510.4	3320.0	4071.4	4285.4
45°	404.4	425.7	441.1	450.9	466.8	527.6	745.9	1497.2	3450.3	4227.4	4447.4
47.5°	396.2	419.7	438.9	450.4	456.4	511.1	721.8	1515.3	3606.8	4390.4	4597.8
50°	396.8	419.2	443.3	461.3	445.5	497.5	707.0	1587.0	3810.4	4584.1	4716.6
52.5°	414.3	441.6	460.8	465.2	430.1	481.1	699.4	1712.3	4051.2	4755.4	4836.4
55°	434.0	462.4	483.2	480.5	421.9	460.2	697.7	1845.8	4314.9	4955.2	4992.4
57.5°	426.8	468.4	500.1	485.9	422.4	440.0	690.6	1953.6	4535.4	5104.5	5146.7
58°	424.6	466.3	502.3	484.8	420.8	434.0	688.9	1962.9	4566.1	5115.0	5168.6
60°	403.3	447.1	500.7	476.7	411.5	417.6	670.9	1993.0	4557.9	5061.3	5181.7
62.5°	364.5	400.6	463.0	436.7	383.1	395.6	630.4	1955.8	4335.7	4803.0	4989.7
65°	320.7	347.5	389.0	384.2	342.5	373.2	575.2	1808.6	3890.8	4383.9	4580.3
67.5°	287.9	309.7	336.0	328.9	308.1	343.1	515.5	1559.6	3391.8	3880.4	4127.8
70°	254.5	271.4	284.6	279.6	273.1	313.5	462.4	1265.7	2913.5	3402.1	3641.8
72.5°	220.5	236.4	247.3	240.3	236.4	282.4	419.2	982.3	2301.1	2806.8	3114.8
75°	184.4	200.3	208.0	199.7	197.6	249.0	355.2	733.9	1726.5	2163.7	2429.7
77.5°	142.8	159.8	169.6	166.9	168.0	204.7	286.8	502.3	1234.6	1474.8	1755.0
80°	100.2	118.7	125.3	122.6	130.3	155.9	202.5	319.1	851.5	957.1	1154.7
82.5°	61.8	79.4	80.5	83.2	88.6	115.5	152.6	194.3	534.6	552.7	696.1
85°	31.2	37.8	40.5	44.9	49.8	70.6	87.0	120.4	344.2	260.5	389.0
87.5°	10.4	10.9	13.1	16.4	20.3	29.0	37.2	49.3	85.4	47.1	120.4
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°	2081.6	2081.6	2081.6	2081.6	2081.6	2081.6	2081.6	2081.6	2081.6	2081.6
2.5°	2330.7	2377.2	2411.1	2442.3	2412.2	2409.5	2379.9	2332.3	2312.6	2312.6
5°	2468.0	2576.9	2665.0	2721.4	2697.3	2639.3	2543.5	2421.5	2355.8	2344.4
7.5°	2505.8	2720.8	2884.5	2942.5	2902.0	2774.0	2590.6	2384.8	2290.7	2269.9
10°	2482.8	2762.4	3002.6	3094.6	3038.2	2844.5	2594.4	2342.2	2226.1	2202.1
12.5°	2458.7	2767.9	3024.6	3157.5	3120.9	2901.4	2622.3	2314.3	2180.2	2145.7
15°	2476.2	2770.1	2997.7	3135.1	3158.6	2969.8	2668.3	2334.4	2170.9	2134.2
17.5°	2586.7	2811.6	2959.4	3070.5	3153.2	3062.8	2799.1	2431.3	2254.0	2208.6
20°	2817.7	2911.3	2981.3	3067.2	3200.2	3252.7	3066.7	2697.3	2487.7	2447.7
22.5°	3486.4	3469.5	3326.1	3324.4	3517.1	3727.7	3715.1	3237.9	2922.7	2889.9
25°	3737.1	3658.3	3450.9	3400.5	3485.3	3810.4	3763.3	3348.5	3057.4	2977.5
27.5°	3639.1	3443.7	3307.5	3296.0	3268.0	3575.1	3688.4	3393.4	3104.5	3026.8
30°	3633.0	3345.8	3151.0	3173.9	3200.8	3494.1	3729.9	3534.1	3224.8	3141.6
32.5°	3647.8	3359.5	3162.4	3166.8	3246.7	3506.1	3775.9	3687.3	3383.0	3299.8
35°	3707.5	3437.2	3235.7	3225.4	3350.1	3584.9	3854.1	3928.1	3599.1	3504.4
37.5°	3803.8	3592.0	3369.9	3367.1	3548.3	3727.2	3951.5	4171.0	3814.2	3712.4
40°	3945.6	3773.1	3608.5	3593.7	3817.5	3958.7	4077.9	4429.8	4064.3	3933.5
42.5°	4116.8	3990.4	3923.1	3981.6	4196.7	4218.6	4275.0	4669.0	4277.2	4125.0
45°	4275.5	4269.5	4363.1	4518.5	4643.8	4512.5	4480.8	4829.3	4442.4	4277.2
47.5°	4464.3	4627.4	4909.8	5137.4	5268.8	4854.5	4656.4	4933.8	4562.8	4410.7
50°	4655.9	5055.8	5506.8	5824.2	5852.1	5226.1	4777.3	5032.4	4672.3	4514.1
52.5°	4857.2	5397.9	5998.2	6367.0	6312.9	5549.5	4894.5	5099.1	4785.0	4646.0
55°	5032.4	5607.5	6272.9	6627.0	6547.6	5746.5	5020.9	5171.3	4945.8	4828.8
57.5°	5130.3	5625.0	6204.5	6513.7	6427.8	5708.2	5078.9	5225.0	5048.8	4956.9
58°	5144.5	5601.5	6143.8	6448.0	6360.5	5675.9	5078.3	5222.8	5055.3	4962.8
60°	5132.0	5448.8	5917.8	6188.7	6096.7	5473.4	5057.5	5181.7	4972.2	4893.9
62.5°	5015.4	5183.9	5527.6	5724.6	5698.3	5157.1	4972.2	5026.8	4718.8	4643.2
65°	4862.2	4822.7	5027.9	5167.5	5187.2	4920.2	4887.3	4691.9	4393.7	4287.0
67.5°	4676.1	4413.4	4412.9	4492.2	4525.1	4555.7	4710.5	4328.0	3925.3	3812.6
70°	4360.3	3782.5	3608.5	3702.0	3674.7	3933.5	4394.8	3817.0	3360.6	3228.7
72.5°	3781.4	3001.5	2723.0	2843.4	2774.5	3084.7	3845.4	3141.1	2778.8	2616.9
75°	3065.0	2245.3	1958.0	2068.5	2025.9	2340.0	3199.7	2281.4	1993.0	1931.2
77.5°	2379.9	1626.9	1460.0	1444.7	1476.5	1741.3	2347.1	1540.5	1313.9	1271.8
80°	1528.9	1164.5	1174.4	1154.7	1171.1	1097.8	1425.0	982.8	889.8	855.9
82.5°	1006.3	811.6	967.5	893.1	848.2	738.2	934.7	643.5	546.1	527.6
85°	685.7	597.6	544.0	415.9	489.8	568.6	701.0	346.4	274.7	249.0
87.5°	309.7	208.0	152.6	94.1	148.9	171.8	340.4	40.5	31.2	32.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)