

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: P452090

Luminaire Tested: **GALN-SA3A-730-U-SLR**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452090  
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-SA3A-730-U-SLR  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 615mA 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: 10717 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - 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

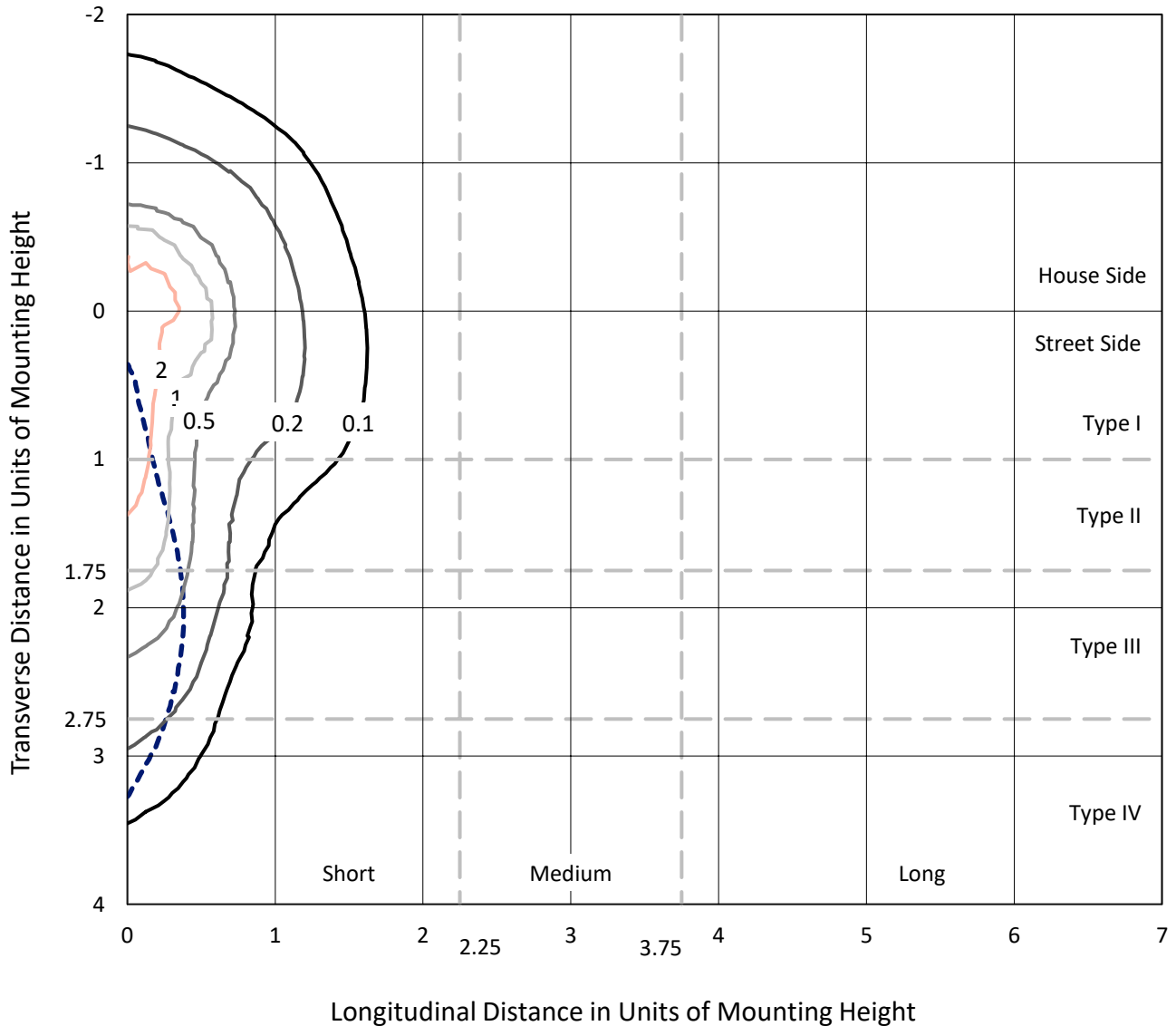




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### Iso-Footcandle Lines of Horizontal Illumination

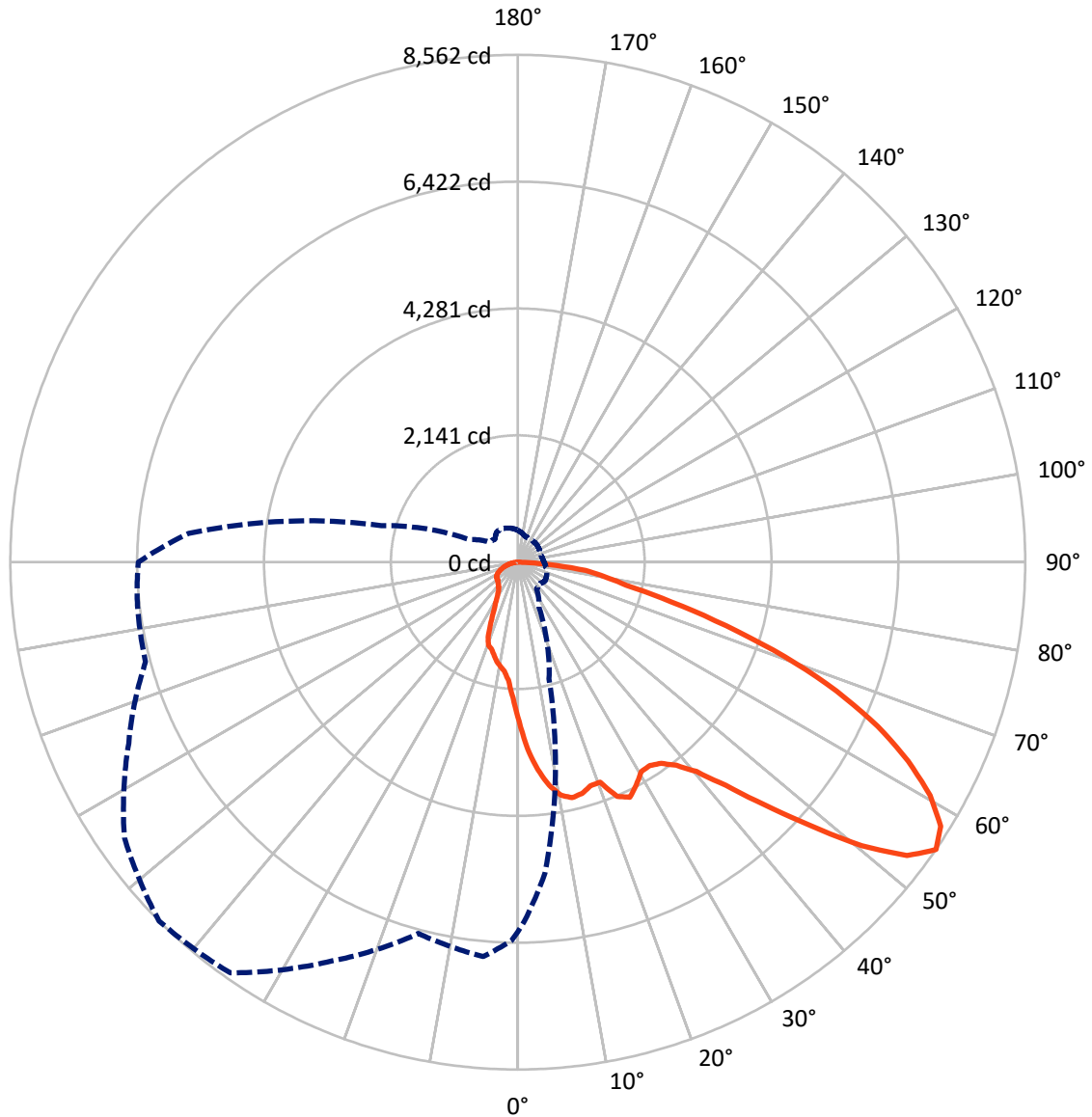
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	2344.3	0.0	2344.3
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	8372.7	0.0	8372.7
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	10717.0	0.0	10717.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.0	2.1
10°-20°	604.7	5.6
20°-30°	1044.7	9.7
30°-40°	1214.1	11.3
40°-50°	1694.0	15.8
50°-60°	2298.5	21.4
60°-70°	2186.8	20.4
70°-80°	1181.4	11.0
80°-90°	264.8	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°	10717.0	100.0
0°-180°	10717.0	100.0

**Coefficient of Utilization**



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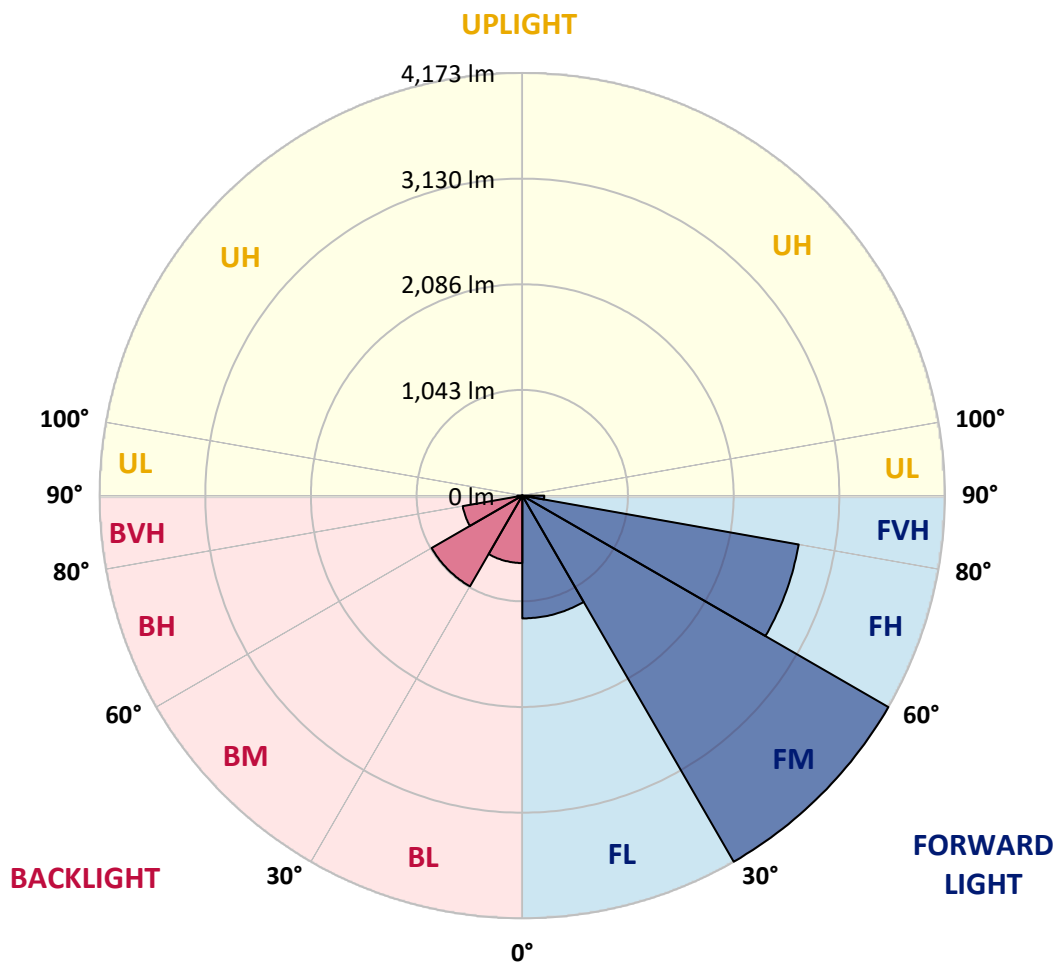
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1212.1	11.3			
FM	(30°-60°)	4173.0	38.9			
FH	(60°-80°)	2771.2	25.9			G2/5000
FVH	(80°-90°)	216.4	2.0			G2/225
BL	(0°-30°)	665.3	6.2	B2/1000		
BM	(30°-60°)	1033.7	9.6	B2/2500		
BH	(60°-80°)	596.9	5.6	B2/1000		G2/1000
BVH	(80°-90°)	48.4	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°	2689.5	2689.5	2689.5	2689.5	2689.5	2689.5	2689.5	2689.5	2689.5	2689.5	2689.5
2.5°	2987.9	2976.6	2944.8	2861.4	2777.2	2691.7	2625.9	2543.9	2458.3	2412.4	2353.7
5°	3028.9	3016.2	2941.3	2753.2	2582.8	2403.9	2261.1	2135.9	2085.0	2010.1	1950.0
7.5°	2932.8	2927.1	2814.7	2544.6	2311.3	2077.3	1915.3	1815.0	1723.7	1689.8	1696.9
10°	2845.1	2822.5	2681.8	2329.0	2056.8	1866.6	1750.6	1652.3	1588.0	1571.0	1574.6
12.5°	2772.3	2741.9	2575.7	2184.0	1945.8	1793.7	1646.0	1543.5	1484.8	1501.0	1556.2
15°	2757.4	2716.4	2531.2	2134.5	1884.9	1689.1	1527.2	1409.1	1365.3	1400.6	1489.0
17.5°	2853.6	2802.0	2607.5	2150.8	1827.0	1582.3	1383.7	1248.6	1211.9	1268.4	1383.7
20°	3162.6	3086.2	2845.8	2244.8	1821.3	1529.3	1300.2	1164.5	1180.0	1287.5	1407.7
22.5°	3733.8	3619.3	3263.0	2382.0	1851.0	1515.9	1283.3	1212.6	1298.1	1389.3	1468.5
25°	3847.0	3757.2	3337.9	2413.1	1844.6	1506.7	1331.3	1366.7	1462.1	1507.4	1479.8
27.5°	3910.6	3808.1	3332.9	2259.0	1649.5	1366.7	1272.7	1331.3	1355.4	1311.5	1236.6
30°	4059.1	3952.3	3417.1	2097.1	1358.2	1013.9	888.7	864.7	881.0	889.4	862.6
32.5°	4263.4	4158.1	3575.5	1991.0	1174.4	838.5	715.5	681.6	673.8	664.6	654.0
35°	4527.8	4365.9	3731.0	1923.1	1098.7	775.6	662.5	636.3	625.7	613.0	601.7
37.5°	4796.5	4626.8	3927.6	1851.7	1048.5	731.8	627.1	615.1	596.7	583.3	567.0
40°	5082.1	4892.0	4106.4	1789.5	999.7	703.5	601.7	600.3	576.2	560.7	541.6
42.5°	5329.6	5133.8	4266.2	1751.3	962.3	673.8	586.1	590.4	565.6	542.3	517.5
45°	5526.2	5333.8	4414.0	1751.3	931.9	644.1	583.3	580.5	555.7	526.7	498.5
47.5°	5698.7	5500.0	4558.2	1795.9	912.8	619.4	567.7	572.7	547.2	510.5	482.9
50°	5832.3	5657.0	4752.7	1865.1	893.7	599.6	547.9	574.8	540.2	502.0	470.2
52.5°	6002.7	5845.7	4986.7	1959.9	877.4	577.6	530.3	574.8	539.5	502.7	468.1
55°	6238.8	6073.4	5268.8	2038.4	851.3	557.1	514.7	558.6	537.3	499.2	462.4
57.5°	6404.3	6280.6	5468.2	2090.7	813.8	531.0	500.6	543.0	528.2	485.7	445.4
58°	6412.1	6291.2	5497.2	2102.7	804.6	526.0	497.0	535.9	523.9	480.1	439.8
60°	6323.0	6219.1	5502.8	2085.7	752.3	501.3	478.7	506.9	501.3	446.8	409.4
62.5°	5999.2	5888.2	5274.5	1947.9	683.0	470.9	450.4	468.1	455.3	400.2	365.5
65°	5538.9	5334.6	4805.0	1731.5	633.5	438.4	412.2	413.6	400.2	360.6	330.2
67.5°	4925.9	4697.5	4068.3	1459.3	596.0	402.3	366.9	363.4	347.2	321.7	297.0
70°	4171.5	4015.2	3306.1	1187.1	554.3	362.7	316.0	313.9	304.0	284.9	263.0
72.5°	3381.0	3182.3	2669.8	950.3	503.4	324.5	268.7	272.9	260.2	246.8	227.0
75°	2495.1	2365.0	2063.8	762.2	434.8	282.8	224.1	225.5	219.9	205.7	190.2
77.5°	1643.1	1604.3	1476.3	500.6	334.4	224.8	183.1	184.5	180.3	167.6	151.3
80°	1105.8	1079.6	1000.4	322.4	223.4	162.6	141.4	142.8	142.1	128.7	106.8
82.5°	681.6	670.3	644.8	217.8	154.8	116.7	93.3	97.6	105.3	90.5	72.8
85°	321.7	322.4	389.6	118.8	91.2	74.9	50.9	54.4	54.4	54.4	41.0
87.5°	41.7	43.8	53.7	50.2	33.2	28.3	18.4	15.6	13.4	17.7	12.7
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2689.5	2689.5	2689.5	2689.5	2689.5	2689.5	2689.5	2689.5	2689.5	2689.5	2689.5
2.5°	2333.2	2319.1	2288.7	2281.6	2277.3	2289.4	2257.6	2266.0	2251.9	2291.5	2285.1
5°	1953.5	1954.9	1979.7	1996.0	2001.6	1996.0	1974.7	1938.0	1909.7	1898.4	1901.2
7.5°	1683.4	1708.2	1750.6	1798.0	1841.1	1853.8	1841.8	1771.8	1695.5	1647.4	1631.8
10°	1593.6	1626.9	1675.7	1713.1	1751.3	1781.7	1788.1	1733.6	1643.1	1529.3	1484.8
12.5°	1598.6	1643.8	1690.5	1702.5	1699.0	1711.0	1705.4	1696.2	1636.8	1491.8	1417.6
15°	1551.9	1605.7	1638.2	1631.8	1620.5	1609.9	1595.1	1571.7	1550.5	1448.7	1366.7
17.5°	1444.5	1499.6	1526.5	1528.6	1528.6	1525.8	1489.7	1481.2	1478.4	1428.9	1378.7
20°	1464.3	1494.7	1482.6	1462.8	1468.5	1487.6	1466.4	1462.1	1478.4	1500.3	1491.1
22.5°	1475.6	1465.0	1374.5	1286.8	1267.0	1326.4	1338.4	1385.8	1451.5	1530.7	1582.3
25°	1405.6	1320.0	1158.1	1059.1	1003.3	1058.4	1130.5	1218.2	1316.5	1418.3	1478.4
27.5°	1175.1	1110.0	994.1	905.0	856.2	864.7	926.2	1006.1	1097.3	1165.9	1209.7
30°	885.2	856.2	796.1	765.7	736.0	728.9	755.1	785.5	825.8	834.3	845.6
32.5°	651.9	647.6	651.2	641.3	635.6	634.9	627.1	634.2	638.4	643.4	633.5
35°	589.7	584.0	574.1	571.3	567.7	569.2	565.6	562.1	564.9	569.2	572.0
37.5°	557.8	549.4	535.2	530.3	530.3	532.4	526.7	525.3	530.3	543.7	550.8
40°	533.1	523.2	506.9	500.6	504.8	510.5	502.7	499.9	511.9	526.0	537.3
42.5°	509.8	502.0	486.4	479.4	482.9	493.5	482.2	480.1	495.6	511.2	524.6
45°	490.0	482.2	468.1	464.5	465.9	475.8	468.1	468.1	482.9	499.9	511.9
47.5°	474.4	464.5	455.3	452.5	453.9	459.6	458.2	458.2	472.3	490.0	502.0
50°	458.9	450.4	438.4	439.8	443.3	451.1	450.4	452.5	466.6	488.6	501.3
52.5°	451.8	439.1	425.6	427.0	437.7	446.8	444.0	446.1	462.4	503.4	521.8
55°	444.0	427.0	411.5	413.6	425.6	439.1	435.5	438.4	457.4	513.3	538.8
57.5°	429.2	409.4	392.4	393.8	411.5	425.6	420.0	423.5	446.1	502.7	529.6
58°	422.8	405.8	389.6	390.3	407.3	422.8	416.4	419.3	442.6	499.9	525.3
60°	395.9	386.0	371.9	372.6	388.9	402.3	398.8	401.6	424.2	479.4	498.5
62.5°	359.2	353.5	350.0	350.0	359.9	372.6	376.1	379.7	400.2	433.4	450.4
65°	319.6	319.6	320.3	320.3	326.6	342.9	345.0	354.2	373.3	389.6	402.3
67.5°	292.7	291.3	292.7	289.2	292.0	301.9	312.5	321.0	340.8	352.1	356.3
70°	258.1	257.4	258.1	253.1	256.7	265.1	272.2	286.3	306.9	315.3	317.5
72.5°	224.1	224.1	225.5	222.0	222.0	231.2	236.1	251.7	270.8	275.7	276.4
75°	188.8	190.9	190.9	185.9	187.4	193.0	199.4	212.1	229.8	233.3	233.3
77.5°	149.9	157.7	157.7	152.7	154.8	155.5	164.0	170.4	183.8	185.2	179.6
80°	108.9	116.7	123.0	118.8	122.3	118.1	123.0	127.3	140.7	134.3	125.1
82.5°	77.8	83.4	88.4	89.1	85.6	77.8	84.1	84.8	91.2	82.7	77.8
85°	43.1	48.1	54.4	51.6	46.0	41.0	43.1	44.5	43.8	41.7	38.9
87.5°	11.3	12.0	13.4	9.9	9.2	7.8	10.6	10.6	12.0	12.7	12.0
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°	2689.5	2689.5	2689.5	2689.5	2689.5	2689.5	2689.5	2689.5	2689.5	2689.5	2689.5
2.5°	2290.1	2321.2	2388.4	2439.3	2501.5	2577.1	2666.2	2756.0	2852.9	2883.3	2925.7
5°	1894.8	1972.6	2005.1	2097.8	2189.7	2327.5	2474.6	2645.0	2831.7	2921.5	3007.7
7.5°	1619.1	1660.8	1694.8	1762.6	1872.9	2040.5	2225.0	2437.8	2702.3	2833.1	2959.6
10°	1470.6	1474.9	1516.6	1600.7	1696.9	1844.6	2019.3	2257.6	2552.4	2711.5	2859.9
12.5°	1372.3	1354.0	1399.2	1486.9	1595.8	1732.2	1892.7	2119.7	2444.2	2607.5	2787.1
15°	1286.1	1257.1	1291.0	1380.8	1488.3	1648.8	1821.3	2061.7	2401.8	2592.0	2791.4
17.5°	1288.2	1208.3	1220.3	1296.0	1402.8	1566.1	1775.4	2059.6	2466.1	2685.3	2921.5
20°	1447.3	1319.3	1264.9	1279.0	1382.2	1560.4	1796.6	2158.6	2677.5	2997.1	3249.5
22.5°	1603.5	1526.5	1438.8	1409.8	1466.4	1653.0	1931.6	2392.6	3137.1	3618.6	4074.6
25°	1549.1	1614.9	1592.9	1551.9	1564.7	1719.5	2023.5	2584.9	3494.2	4036.4	4464.9
27.5°	1239.4	1358.9	1383.0	1382.2	1387.2	1514.5	1819.9	2455.5	3538.7	4116.3	4525.7
30°	871.1	881.7	894.4	919.1	941.8	1055.6	1424.0	2155.7	3518.9	4152.4	4562.5
32.5°	628.6	642.7	660.4	694.3	748.0	893.0	1245.8	2060.3	3623.5	4301.6	4669.9
35°	574.8	591.1	608.0	646.9	697.8	832.2	1175.1	2020.7	3795.3	4543.4	4863.0
37.5°	557.8	576.2	591.1	619.4	660.4	788.3	1110.7	1993.8	3971.4	4799.3	5121.7
40°	545.8	567.0	579.1	601.7	630.0	748.0	1053.5	1972.6	4141.8	5033.4	5329.6
42.5°	535.2	557.1	572.7	589.0	612.3	712.0	1002.6	1951.4	4289.6	5260.3	5536.8
45°	522.5	550.1	569.9	582.6	603.1	681.6	963.7	1934.4	4457.8	5461.8	5746.0
47.5°	511.9	542.3	567.0	581.9	589.7	660.4	932.6	1957.8	4660.0	5672.5	5940.5
50°	512.6	541.6	572.7	596.0	575.5	642.7	913.5	2050.4	4923.1	5922.8	6093.9
52.5°	535.2	570.6	595.3	601.0	555.7	621.5	903.6	2212.3	5234.2	6144.1	6248.7
55°	560.7	597.4	624.3	620.8	545.1	594.6	901.5	2384.8	5574.9	6402.2	6450.2
57.5°	551.5	605.2	646.2	627.8	545.8	568.5	892.3	2524.1	5859.9	6595.2	6649.6
58°	548.7	602.4	649.1	626.4	543.7	560.7	890.2	2536.1	5899.5	6608.6	6677.9
60°	521.1	577.6	646.9	615.8	531.7	539.5	866.8	2575.0	5888.9	6539.3	6694.9
62.5°	470.9	517.5	598.1	564.2	494.9	511.2	814.5	2526.9	5601.8	6205.6	6446.7
65°	414.3	449.0	502.7	496.3	442.6	482.2	743.1	2336.7	5027.0	5664.0	5917.9
67.5°	371.9	400.2	434.1	424.9	398.1	443.3	666.0	2015.0	4382.2	5013.6	5333.1
70°	328.8	350.7	367.7	361.3	352.8	405.1	597.4	1635.4	3764.2	4395.6	4705.3
72.5°	284.9	305.4	319.6	310.4	305.4	364.8	541.6	1269.1	2973.1	3626.4	4024.4
75°	238.3	258.8	268.7	258.1	255.2	321.7	458.9	948.1	2230.7	2795.6	3139.2
77.5°	184.5	206.5	219.2	215.6	217.1	264.4	370.5	649.1	1595.1	1905.5	2267.5
80°	129.4	153.4	161.9	158.4	168.3	201.5	261.6	412.2	1100.1	1236.6	1491.8
82.5°	79.9	102.5	103.9	107.5	114.5	149.2	197.3	251.0	690.8	714.1	899.3
85°	40.3	48.8	52.3	58.0	64.3	91.2	112.4	155.5	444.7	336.5	502.7
87.5°	13.4	14.1	17.0	21.2	26.2	37.5	48.1	63.6	110.3	60.8	155.5
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°	2689.5	2689.5	2689.5	2689.5	2689.5	2689.5	2689.5	2689.5	2689.5	2689.5
2.5°	3011.2	3071.3	3115.2	3155.5	3116.6	3113.1	3074.9	3013.4	2987.9	2987.9
5°	3188.7	3329.4	3443.2	3516.1	3485.0	3410.0	3286.3	3128.6	3043.8	3028.9
7.5°	3237.5	3515.4	3726.8	3801.7	3749.4	3583.9	3347.1	3081.2	2959.6	2932.8
10°	3207.8	3569.1	3879.5	3998.3	3925.4	3675.2	3352.0	3026.1	2876.2	2845.1
12.5°	3176.7	3576.2	3907.8	4079.6	4032.2	3748.7	3388.1	2990.0	2816.8	2772.3
15°	3199.3	3579.0	3873.1	4050.6	4081.0	3837.1	3447.5	3016.2	2804.8	2757.4
17.5°	3342.1	3632.7	3823.6	3967.2	4073.9	3957.3	3616.5	3141.3	2912.3	2853.6
20°	3640.5	3761.4	3851.9	3962.9	4134.7	4202.6	3962.2	3485.0	3214.2	3162.6
22.5°	4504.5	4482.6	4297.3	4295.2	4544.1	4816.3	4800.0	4183.5	3776.3	3733.8
25°	4828.3	4726.5	4458.5	4393.5	4503.1	4923.1	4862.3	4326.3	3950.2	3847.0
27.5°	4701.8	4449.4	4273.3	4258.5	4222.4	4619.0	4765.4	4384.3	4011.0	3910.6
30°	4694.0	4322.8	4071.1	4100.8	4135.4	4514.4	4819.1	4566.0	4166.5	4059.1
32.5°	4713.1	4340.5	4085.9	4091.6	4194.8	4530.0	4878.5	4764.0	4370.9	4263.4
35°	4790.1	4440.9	4180.7	4167.2	4328.4	4631.8	4979.6	5075.1	4650.1	4527.8
37.5°	4914.6	4641.0	4353.9	4350.4	4584.4	4815.6	5105.5	5389.0	4928.0	4796.5
40°	5097.7	4875.0	4662.2	4643.1	4932.3	5114.7	5268.8	5723.4	5251.1	5082.1
42.5°	5319.0	5155.7	5068.7	5144.4	5422.2	5450.5	5523.3	6032.4	5526.2	5329.6
45°	5524.0	5516.3	5637.2	5838.0	5999.9	5830.2	5789.2	6239.6	5739.7	5526.2
47.5°	5768.0	5978.7	6343.5	6637.6	6807.3	6272.1	6016.1	6374.6	5895.2	5698.7
50°	6015.4	6532.3	7114.9	7524.9	7561.0	6752.2	6172.4	6501.9	6036.6	5832.3
52.5°	6275.6	6974.2	7749.8	8226.3	8156.3	7170.0	6323.7	6588.1	6182.3	6002.7
55°	6501.9	7245.0	8104.7	8562.2	8459.6	7424.5	6487.0	6681.4	6390.2	6238.8
57.5°	6628.4	7267.6	8016.3	8415.8	8304.8	7375.0	6562.0	6750.7	6523.1	6404.3
58°	6646.8	7237.2	7937.8	8331.0	8217.8	7333.3	6561.3	6747.9	6531.6	6412.1
60°	6630.5	7039.9	7645.8	7995.8	7877.0	7071.7	6534.4	6694.9	6424.1	6323.0
62.5°	6479.9	6697.7	7141.7	7396.3	7362.3	6663.1	6424.1	6494.8	6096.7	5999.2
65°	6282.0	6231.1	6496.2	6676.5	6702.0	6356.9	6314.5	6062.1	5676.8	5538.9
67.5°	6041.6	5702.2	5701.5	5804.0	5846.4	5886.0	6086.1	5591.9	5071.5	4925.9
70°	5633.6	4887.0	4662.2	4783.1	4747.7	5082.1	5678.2	4931.5	4341.9	4171.5
72.5°	4885.6	3878.1	3518.2	3673.7	3584.7	3985.5	4968.3	4058.4	3590.3	3381.0
75°	3960.1	2901.0	2529.8	2672.6	2617.4	3023.3	4134.0	2947.6	2575.0	2495.1
77.5°	3074.9	2102.0	1886.4	1866.6	1907.6	2249.8	3032.5	1990.3	1697.6	1643.1
80°	1975.4	1504.6	1517.3	1491.8	1513.0	1418.3	1841.1	1269.8	1149.6	1105.8
82.5°	1300.2	1048.5	1250.0	1153.9	1095.9	953.8	1207.6	831.5	705.6	681.6
85°	885.9	772.1	702.8	537.3	632.8	734.6	905.7	447.6	354.9	321.7
87.5°	400.2	268.7	197.3	121.6	192.3	222.0	439.8	52.3	40.3	41.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)