

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: P457105

Luminaire Tested: **GALN-SA8B-830-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457105  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8B-830-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31473 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

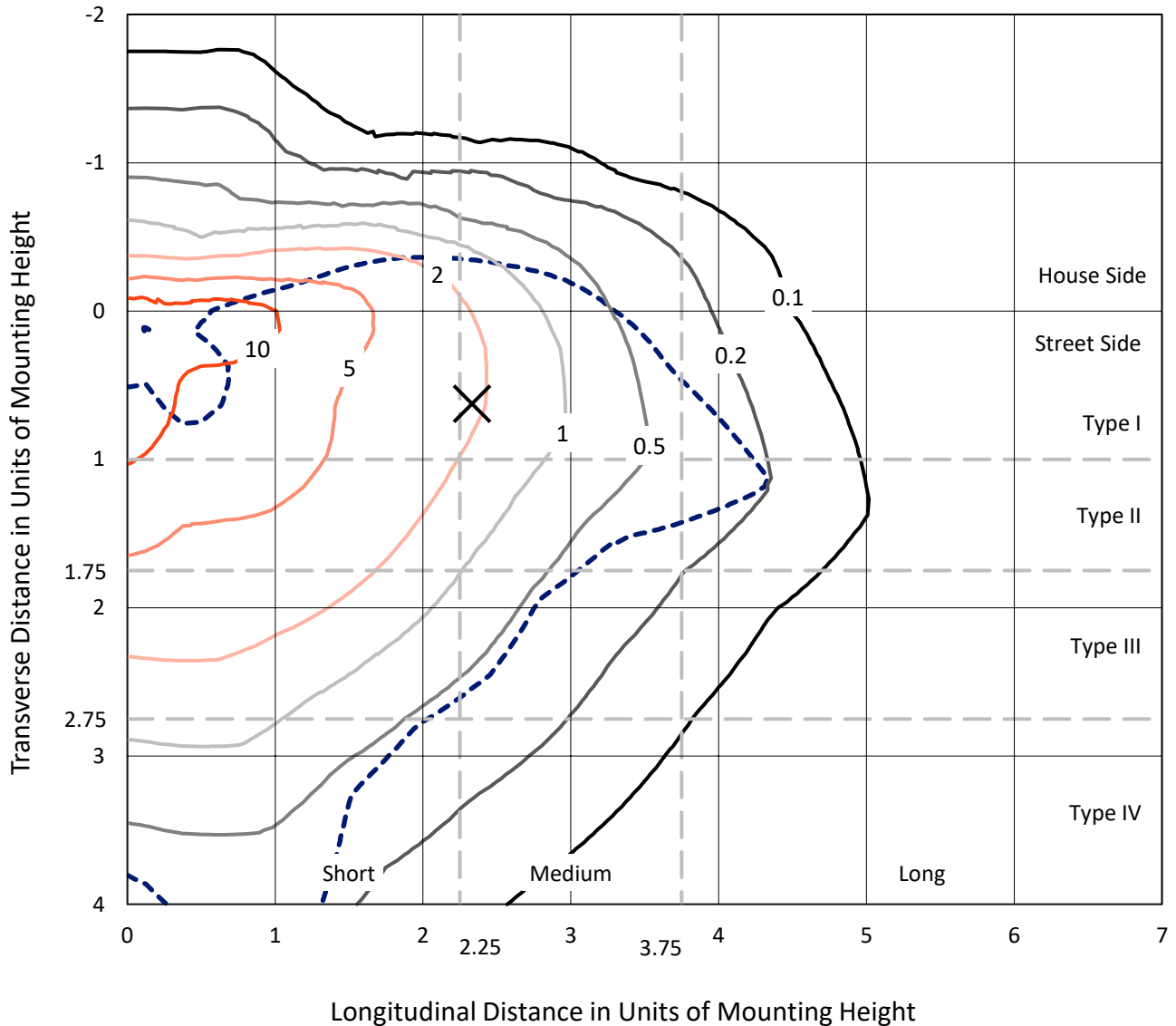
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

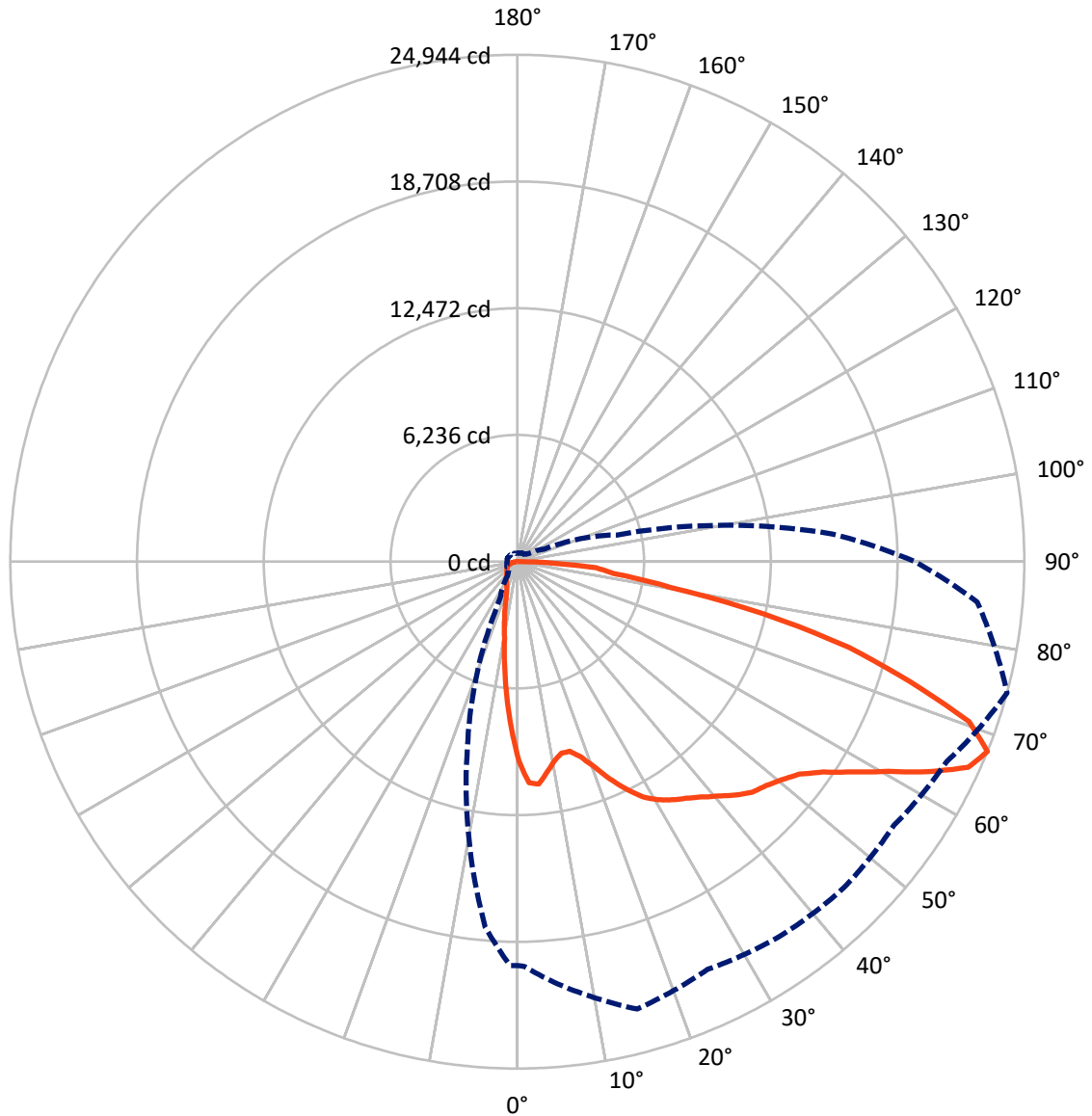
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5319.6	0.0	5319.6
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	26153.4	0.0	26153.4
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	31473.0	0.0	31473.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	745.8	2.4
10°-20°	1555.4	4.9
20°-30°	2238.2	7.1
30°-40°	3223.7	10.2
40°-50°	4528.4	14.4
50°-60°	6315.5	20.1
60°-70°	7508.7	23.9
70°-80°	4422.2	14.1
80°-90°	935.1	3.0
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°	31473.0	100.0
0°-180°	31473.0	100.0

**Coefficient of Utilization**



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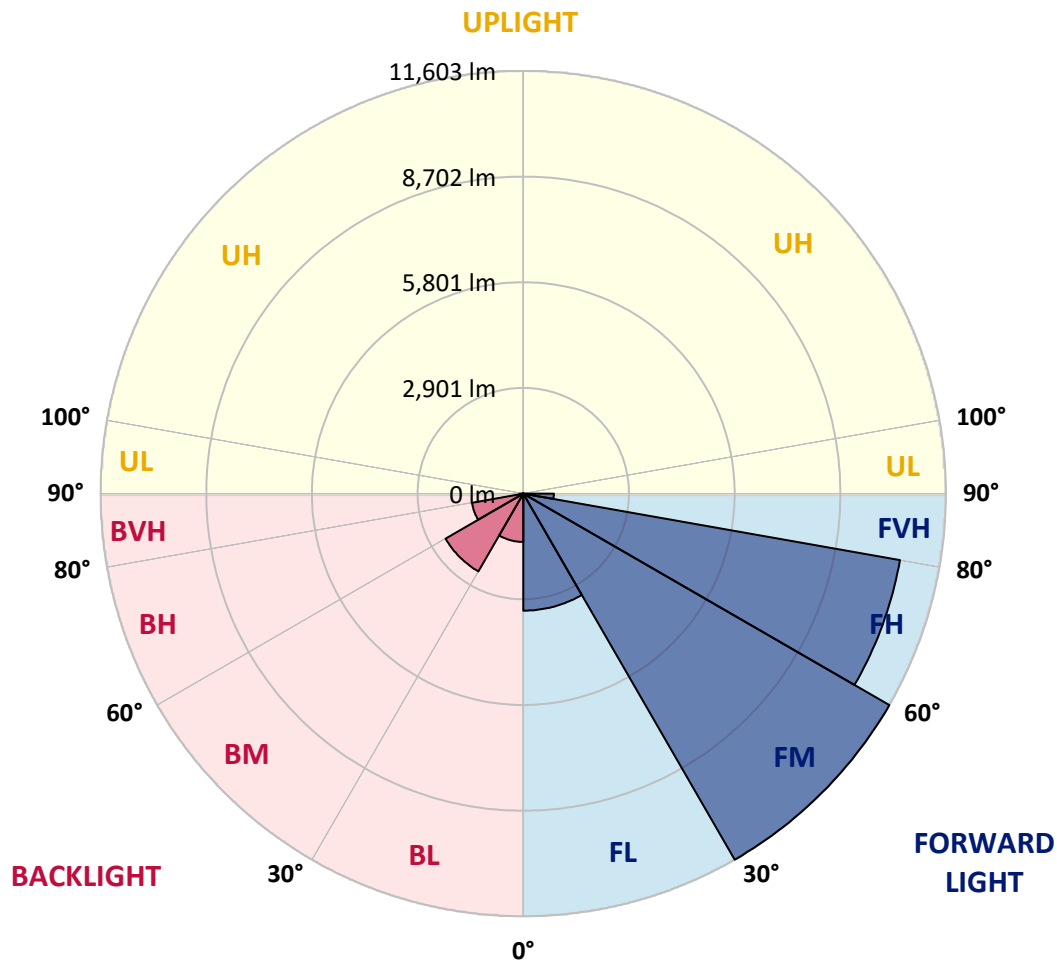
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3212.5	10.2			
FM	(30°-60°)	11602.9	36.9			
FH	(60°-80°)	10499.5	33.4			G4/12000
FVH	(80°-90°)	838.4	2.7			G5
BL	(0°-30°)	1326.9	4.2	B3/2500		
BM	(30°-60°)	2464.6	7.8	B2/2500		
BH	(60°-80°)	1431.4	4.5	B3/2500		G3/2500
BVH	(80°-90°)	96.7	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-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9832.9	9832.9	9832.9	9832.9	9832.9	9832.9	9832.9	9832.9	9832.9	9832.9	9832.9
2.5°	10601.9	10616.0	10706.8	10971.2	11152.8	11219.4	11265.9	11179.1	11094.3	10888.5	10577.6
5°	10569.6	10652.3	10888.5	11481.8	11950.1	12151.9	12212.4	11952.1	11522.2	10993.4	10357.7
7.5°	9952.0	10063.0	10426.3	11421.3	12246.7	12719.0	12656.4	12186.2	11411.2	10468.7	9580.6
10°	9219.4	9342.5	9780.4	10983.3	12046.9	12696.8	12696.8	12123.6	11094.3	9974.2	8950.9
12.5°	8638.1	8767.3	9267.8	10533.2	11631.2	12246.7	12349.7	11857.2	10866.3	9661.4	8537.2
15°	8446.4	8571.5	9110.4	10260.8	11191.2	11566.6	11600.9	11439.4	10755.2	9683.6	8519.0
17.5°	8684.5	8846.0	9390.9	10341.5	10787.5	10809.7	10836.0	10963.1	10767.4	10089.2	8886.4
20°	9372.7	9546.3	10115.5	10601.9	10434.3	10204.3	10218.4	10545.4	10910.7	10759.3	9764.3
22.5°	10365.7	10517.1	11100.4	11060.0	10285.0	9810.7	9711.8	10167.9	11122.6	11594.8	10698.7
25°	11437.4	11615.0	12285.1	11740.2	10327.4	9576.6	9514.0	9945.9	11342.6	12375.9	11778.5
27.5°	12664.5	12838.1	13366.9	12426.4	10549.4	9558.4	9483.8	9925.7	11540.3	13098.4	12809.8
30°	13576.8	13736.2	14095.5	13003.6	10821.9	9679.5	9586.7	10085.2	11709.9	13592.9	13814.9
32.5°	14293.2	14458.7	14654.5	13362.8	11181.1	9899.5	9728.0	10375.8	11931.9	13970.3	14559.6
35°	15040.0	15235.8	15221.6	13681.7	11516.1	10153.8	9986.3	10795.6	12281.0	14299.3	15504.2
37.5°	15986.6	16065.3	15964.4	13968.3	11917.8	10612.0	10519.1	11419.3	12777.5	14696.9	16608.2
40°	16947.2	17104.7	16586.0	14315.4	12406.2	11473.7	11463.7	12341.6	13366.9	15163.1	17677.8
42.5°	17770.7	17903.9	17167.2	14618.2	12997.5	12525.3	12601.9	13578.8	14139.9	15704.0	18537.6
45°	18390.3	18509.4	17704.1	14910.8	13776.6	13740.2	14192.3	14904.8	15114.7	16190.4	19042.2
47.5°	18917.0	19032.1	18077.5	15354.8	14739.3	15191.4	15978.5	16287.3	15948.2	16468.9	19607.3
50°	19361.1	19395.4	18333.8	15883.6	15934.1	16969.4	17732.3	17932.1	16771.7	16868.5	20097.7
52.5°	19823.2	19778.8	18775.8	16549.6	17225.8	18656.7	19211.7	19419.6	17560.8	17361.0	20812.2
55°	20858.6	20901.0	19766.7	17389.2	18531.6	20313.7	21044.3	20844.5	18434.7	18267.2	21720.4
57.5°	22109.9	22073.6	21161.3	18703.1	19861.6	21855.6	22400.5	22079.6	19601.2	19512.4	22640.7
60°	22596.3	22644.8	22327.9	20115.9	21173.5	23205.8	23762.9	23264.4	20999.9	20959.5	23335.0
62.5°	22107.9	22380.4	22594.3	21373.3	22291.6	24198.8	24751.8	24182.7	22459.1	22751.7	23821.4
65°	21135.1	21193.6	21922.2	22438.9	22830.4	24362.3	24650.9	24348.2	23678.1	24384.5	23799.2
67.5°	19871.7	19922.1	20775.9	22788.1	22136.2	22505.5	22707.3	22618.5	23300.7	24943.5	22703.3
70°	18668.8	18628.4	19530.6	21898.0	19270.2	18709.2	18876.7	18598.2	20105.8	23577.2	20553.8
72.5°	16327.6	16472.9	17441.7	19423.6	15258.0	14345.7	14711.0	13990.5	15463.8	20192.6	16682.8
75°	12789.6	12824.0	14440.6	16301.4	11510.1	10071.1	10565.5	10264.8	11845.1	16844.3	11520.2
77.5°	8856.1	8779.4	10517.1	12450.6	8208.2	7372.7	7380.7	7237.4	8270.8	12402.1	7826.8
80°	5624.9	5507.8	6583.5	7691.5	5641.0	6034.6	5836.8	5830.7	5384.7	7651.2	4732.8
82.5°	3039.5	3168.7	4159.6	4821.6	4046.6	4664.2	4274.7	4149.5	3695.4	4789.3	3027.4
85°	1384.5	1505.6	2218.1	3279.7	3073.8	3108.1	2076.8	2450.2	3057.6	3889.2	1616.6
87.5°	135.2	173.6	458.1	1548.0	1049.5	827.5	308.8	595.4	769.0	1382.5	129.2
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°	9832.9	9832.9	9832.9	9832.9	9832.9	9832.9	9832.9	9832.9	9832.9	9832.9	9832.9
2.5°	10450.5	10345.5	9988.3	9693.7	9380.8	9142.7	8831.9	8624.0	8480.7	8264.7	8238.5
5°	9970.2	9713.8	9092.2	8458.5	7911.5	7499.8	7082.0	6698.6	6472.5	6401.9	6311.1
7.5°	9160.8	8728.9	7929.7	7203.1	6575.5	5961.9	5489.6	5154.6	4930.6	4799.4	4642.0
10°	8494.8	7994.3	7021.5	6131.4	5614.8	5233.3	4817.6	4458.3	4181.8	3945.7	3816.5
12.5°	8046.8	7481.6	6387.8	5665.2	5265.6	4859.9	4373.5	3969.9	3562.2	3293.8	3178.7
15°	7911.5	7314.1	6192.0	5433.1	4859.9	4329.1	3784.2	3257.5	2853.8	2599.5	2514.7
17.5°	8242.5	7520.0	6190.0	5124.3	4383.6	3749.9	3051.6	2557.1	2143.4	1953.7	1893.1
20°	8860.1	7915.6	6208.1	4819.6	3867.0	2974.9	2220.1	1814.4	1616.6	1535.9	1505.6
22.5°	9721.9	8519.0	6262.6	4518.9	3301.9	2284.7	1663.0	1457.2	1386.5	1372.4	1366.4
25°	10783.5	9265.8	6446.3	4248.4	2825.5	1743.8	1390.6	1297.7	1257.4	1243.2	1241.2
27.5°	11760.3	10230.5	6668.3	4016.3	2365.4	1503.6	1257.4	1178.7	1138.3	1136.3	1140.3
30°	12642.3	11037.8	6854.0	3756.0	2016.2	1336.1	1170.6	1091.9	1053.5	1051.5	1063.6
32.5°	13405.2	11701.8	6991.2	3499.6	1822.5	1233.2	1091.9	1007.1	974.8	968.8	974.8
35°	14220.6	12363.8	6928.6	3299.8	1711.5	1148.4	1033.3	950.6	912.2	894.1	894.1
37.5°	15151.0	13046.0	6821.7	3134.3	1661.0	1077.7	982.9	902.2	863.8	845.6	843.6
40°	16166.2	13728.1	6674.4	2987.0	1610.6	1035.4	948.6	863.8	817.4	799.2	795.2
42.5°	17062.3	14311.4	6553.3	2890.1	1527.8	1043.4	918.3	835.6	777.0	752.8	750.8
45°	17841.3	14898.7	6531.1	2833.6	1459.2	1031.3	910.2	813.4	744.7	718.5	714.5
47.5°	18450.8	15510.2	6658.2	2801.3	1384.5	966.7	962.7	799.2	716.5	688.2	684.2
50°	19193.5	16378.1	6948.8	2734.7	1315.9	906.2	1017.2	797.2	694.3	657.9	647.9
52.5°	20182.5	17508.3	7342.4	2615.7	1217.0	849.7	970.8	797.2	668.0	631.7	619.6
55°	21678.0	18949.3	7727.9	2448.1	1077.7	775.0	875.9	773.0	629.7	597.4	589.3
57.5°	22669.0	20002.9	7974.1	2216.0	904.2	720.5	754.8	734.6	591.3	557.0	557.0
60°	22719.4	20285.4	7857.0	1923.4	795.2	670.1	655.9	740.7	557.0	520.7	516.7
62.5°	22138.2	19593.2	7247.5	1661.0	736.7	615.6	593.4	649.9	522.7	486.4	480.3
65°	21230.0	17827.2	6190.0	1535.9	704.4	567.1	534.8	532.8	486.4	452.1	444.0
67.5°	19560.9	15578.9	5086.0	1463.2	688.2	512.6	482.4	472.3	444.0	415.8	411.7
70°	17100.6	13048.0	4078.9	1433.0	680.1	456.1	431.9	419.8	395.6	373.4	371.4
72.5°	13304.3	10583.7	3366.4	1412.8	676.1	403.6	377.4	361.3	347.1	327.0	327.0
75°	9556.4	7786.4	2569.2	1273.5	625.7	347.1	318.9	308.8	288.6	272.5	276.5
77.5°	6024.5	5243.4	1691.3	936.5	484.4	278.5	254.3	248.2	232.1	209.9	224.0
80°	4068.8	3687.3	986.9	589.3	304.8	203.8	195.8	193.8	175.6	151.4	153.4
82.5°	2769.0	2716.6	512.6	335.0	175.6	119.1	115.0	119.1	98.9	80.7	80.7
85°	1081.8	1477.4	242.2	131.2	56.5	18.2	26.2	28.3	16.1	8.1	10.1
87.5°	20.2	151.4	6.1	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	9832.9	9832.9	9832.9	9832.9	9832.9	9832.9	9832.9	9832.9	9832.9	9832.9	9832.9
2.5°	8198.1	8180.0	8210.2	8081.1	8107.3	8155.7	8180.0	8194.1	8393.9	8347.5	8474.6
5°	6395.8	6377.7	6494.7	6510.9	6571.4	6559.3	6617.8	6632.0	6704.6	6730.9	6908.5
7.5°	4652.1	4730.8	4864.0	4932.6	5035.5	5067.8	5037.5	5112.2	4960.9	5069.8	5102.1
10°	3737.8	3642.9	3586.4	3743.9	3764.0	3913.4	3852.8	3804.4	3893.2	3897.2	3982.0
12.5°	3112.1	2908.3	2773.1	2817.5	2865.9	2930.5	2940.6	3037.5	3102.0	3162.6	3213.1
15°	2440.1	2369.4	2246.3	2185.8	2254.4	2280.6	2343.2	2423.9	2492.5	2510.7	2579.3
17.5°	1872.9	1885.0	1864.9	1828.5	1870.9	1891.1	1895.1	1897.2	1915.3	1903.2	2004.1
20°	1507.6	1550.0	1600.5	1608.5	1622.7	1632.8	1614.6	1546.0	1548.0	1590.4	1622.7
22.5°	1364.3	1372.4	1428.9	1447.1	1491.5	1473.3	1420.8	1388.6	1384.5	1394.6	1410.8
25°	1251.3	1263.4	1303.8	1332.0	1366.4	1334.1	1295.7	1265.4	1261.4	1271.5	1287.6
27.5°	1150.4	1168.6	1204.9	1233.2	1265.4	1235.2	1198.8	1172.6	1170.6	1168.6	1178.7
30°	1069.7	1089.9	1116.1	1148.4	1170.6	1144.3	1110.0	1095.9	1093.9	1089.9	1093.9
32.5°	988.9	1021.2	1047.5	1063.6	1085.8	1065.6	1039.4	1031.3	1017.2	1005.1	999.0
35°	898.1	932.4	972.8	993.0	1015.2	995.0	976.8	942.5	918.3	916.3	920.3
37.5°	845.6	859.8	892.1	926.4	948.6	938.5	904.2	869.9	863.8	863.8	867.8
40°	799.2	805.3	819.4	863.8	904.2	873.9	831.5	821.4	821.4	819.4	821.4
42.5°	752.8	758.9	758.9	793.2	857.8	809.3	777.0	777.0	777.0	779.0	785.1
45°	710.4	712.4	710.4	734.6	795.2	754.8	732.6	738.7	742.7	746.8	750.8
47.5°	674.1	676.1	674.1	694.3	724.6	708.4	696.3	704.4	712.4	718.5	722.5
50°	641.8	639.8	643.8	655.9	670.1	674.1	666.0	678.1	682.2	690.2	700.3
52.5°	613.5	611.5	615.6	621.6	641.8	641.8	641.8	651.9	660.0	668.0	682.2
55°	581.3	583.3	589.3	597.4	623.6	619.6	621.6	629.7	637.8	649.9	657.9
57.5°	551.0	555.0	563.1	575.2	601.4	599.4	601.4	605.5	615.6	621.6	629.7
60°	516.7	524.7	534.8	542.9	569.1	567.1	577.2	585.3	591.3	591.3	595.4
62.5°	482.4	494.5	504.6	510.6	538.9	540.9	555.0	561.1	565.1	561.1	567.1
65°	448.1	466.2	470.3	478.3	506.6	508.6	524.7	538.9	534.8	530.8	540.9
67.5°	413.7	435.9	433.9	444.0	472.3	476.3	490.4	514.7	506.6	502.5	510.6
70°	375.4	391.5	393.6	399.6	438.0	431.9	454.1	476.3	470.3	472.3	472.3
72.5°	333.0	347.1	347.1	359.2	399.6	389.5	407.7	431.9	431.9	429.9	429.9
75°	282.6	290.6	298.7	316.9	359.2	347.1	359.2	381.4	385.5	381.4	381.4
77.5°	228.1	240.2	244.2	268.4	298.7	296.7	308.8	318.9	327.0	322.9	322.9
80°	161.5	173.6	189.7	216.0	234.1	240.2	246.2	254.3	258.3	258.3	262.4
82.5°	90.8	109.0	123.1	149.4	157.4	187.7	185.7	191.7	185.7	163.5	181.6
85°	20.2	38.3	54.5	68.6	78.7	109.0	115.0	129.2	107.0	98.9	98.9
87.5°	0.0	0.0	0.0	0.0	0.0	16.1	32.3	44.4	38.3	32.3	32.3
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°	9832.9	9832.9	9832.9	9832.9	9832.9	9832.9	9832.9	9832.9	9832.9	9832.9
2.5°	8581.6	8757.2	8969.1	9334.4	9590.7	9867.2	10145.7	10442.4	10521.1	10601.9
5°	6956.9	7302.0	7489.7	7980.2	8494.8	9148.7	9683.6	10268.9	10513.1	10569.6
7.5°	5269.6	5503.8	5996.2	6492.7	7130.5	7816.7	8636.1	9548.3	9832.9	9952.0
10°	4177.8	4496.7	4928.6	5461.4	6020.4	6759.1	7683.5	8749.1	9152.8	9219.4
12.5°	3556.2	3911.4	4381.6	4944.7	5473.5	6030.5	6963.0	8062.9	8494.8	8638.1
15°	2843.7	3273.6	3816.5	4409.9	4985.1	5594.6	6539.1	7780.4	8278.9	8446.4
17.5°	2234.2	2581.3	3168.7	3812.5	4494.6	5265.6	6450.3	7915.6	8529.1	8684.5
20°	1709.5	1957.7	2452.2	3132.3	3931.5	4940.7	6472.5	8426.2	9160.8	9372.7
22.5°	1477.4	1604.5	1905.2	2553.1	3447.2	4658.1	6563.3	9126.5	10012.5	10365.7
25°	1338.1	1404.7	1574.2	1998.1	2985.0	4383.6	6771.2	10069.0	11203.3	11437.4
27.5°	1219.0	1267.5	1372.4	1677.2	2565.2	4129.3	7013.4	11114.5	12315.4	12664.5
30°	1106.0	1170.6	1269.5	1489.5	2296.8	3897.2	7318.2	11962.2	13251.8	13576.8
32.5°	1019.2	1083.8	1174.6	1358.3	2068.7	3653.0	7499.8	12706.9	14016.7	14293.2
35°	948.6	1003.1	1097.9	1253.3	1895.1	3467.4	7463.5	13298.2	14757.4	15040.0
37.5°	898.1	944.5	1039.4	1154.4	1763.9	3273.6	7445.3	14079.3	15659.6	15986.6
40°	851.7	900.1	986.9	1089.9	1632.8	3045.5	7455.4	14854.3	16620.3	16947.2
42.5°	815.4	869.9	940.5	1071.7	1497.5	2861.9	7455.4	15528.4	17455.8	17770.7
45°	785.1	843.6	912.2	1069.7	1390.6	2722.6	7405.0	16107.6	18121.9	18390.3
47.5°	758.9	823.4	922.3	1033.3	1364.3	2621.7	7360.6	16571.8	18664.8	18917.0
50°	740.7	817.4	980.9	991.0	1372.4	2591.4	7574.5	17157.1	19143.1	19361.1
52.5°	726.6	819.4	978.9	928.4	1358.3	2611.6	8020.5	18071.4	19807.1	19823.2
55°	698.3	817.4	928.4	857.8	1299.8	2645.9	8593.7	19399.4	20846.5	20858.6
57.5°	670.1	795.2	861.8	797.2	1180.7	2645.9	9283.9	20656.8	22099.8	22109.9
60°	641.8	827.5	756.8	744.7	1025.3	2597.5	10012.5	21209.8	22493.4	22596.3
62.5°	613.5	833.5	676.1	698.3	912.2	2480.4	10555.4	20598.3	21960.6	22107.9
65°	581.3	672.1	623.6	649.9	853.7	2284.7	10383.9	19478.1	20959.5	21135.1
67.5°	542.9	569.1	567.1	599.4	833.5	1996.0	9479.7	18061.3	19881.8	19871.7
70°	496.5	510.6	516.7	551.0	795.2	1772.0	7899.4	16222.7	18442.8	18668.8
72.5°	448.1	460.2	466.2	496.5	756.8	1644.9	6131.4	13689.8	15974.4	16327.6
75°	395.6	403.6	411.7	438.0	716.5	1457.2	4367.5	10450.5	12234.6	12789.6
77.5°	341.1	341.1	351.2	377.4	603.5	1202.9	2930.5	7330.3	8288.9	8856.1
80°	276.5	278.5	274.5	302.7	444.0	823.4	1665.1	4896.3	5515.9	5624.9
82.5°	211.9	205.9	207.9	222.0	331.0	561.1	888.0	3041.5	3100.0	3039.5
85°	133.2	133.2	129.2	145.3	211.9	292.6	484.4	1862.8	1455.2	1384.5
87.5°	54.5	44.4	50.5	58.5	100.9	119.1	189.7	383.5	147.3	135.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)