

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: P648217

Luminaire Tested: **GALN-SA1B-835-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648217  
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-SA1B-835-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3886 lumens  
Efficiency: N/A  
Efficacy: 88.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

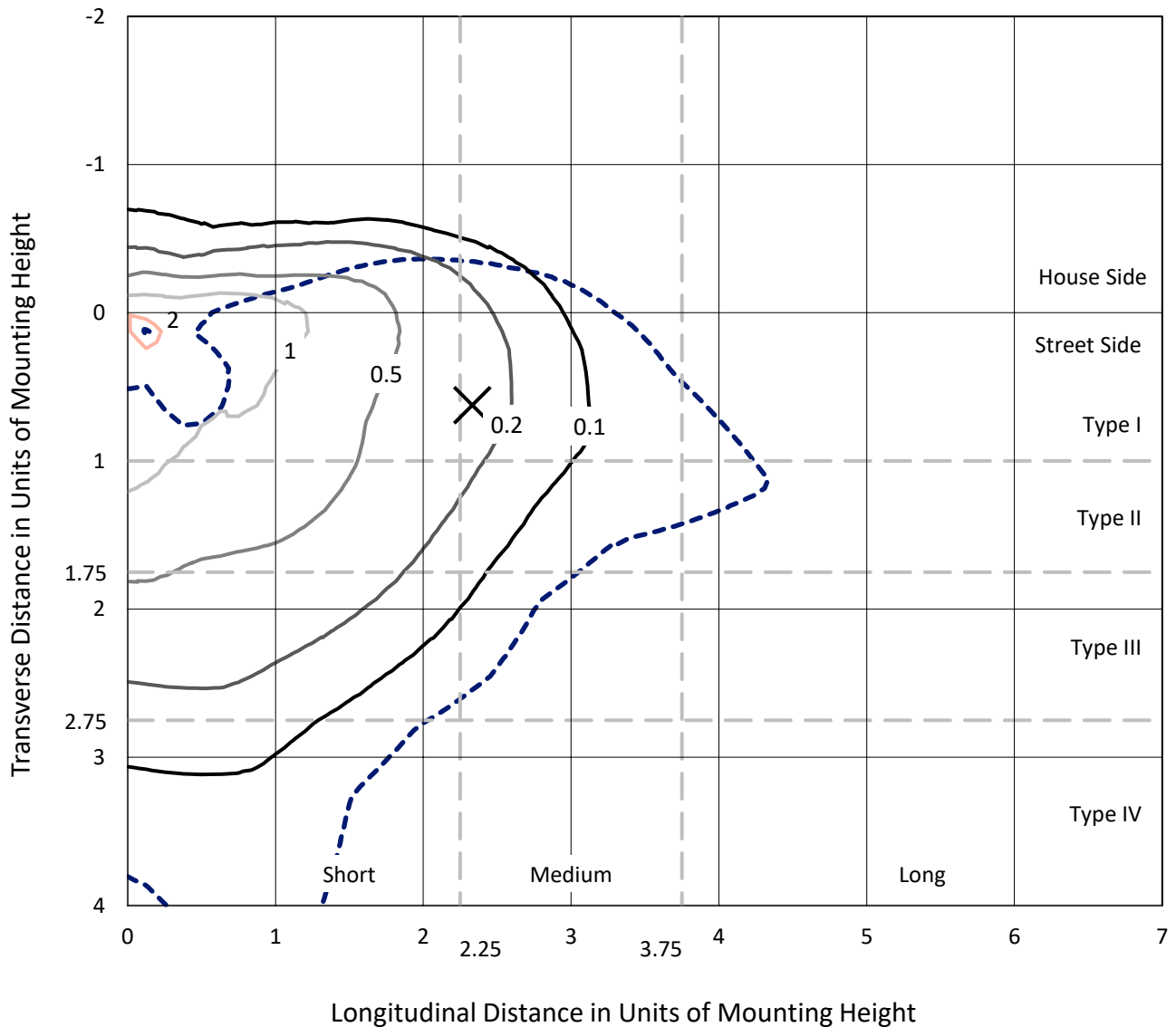
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

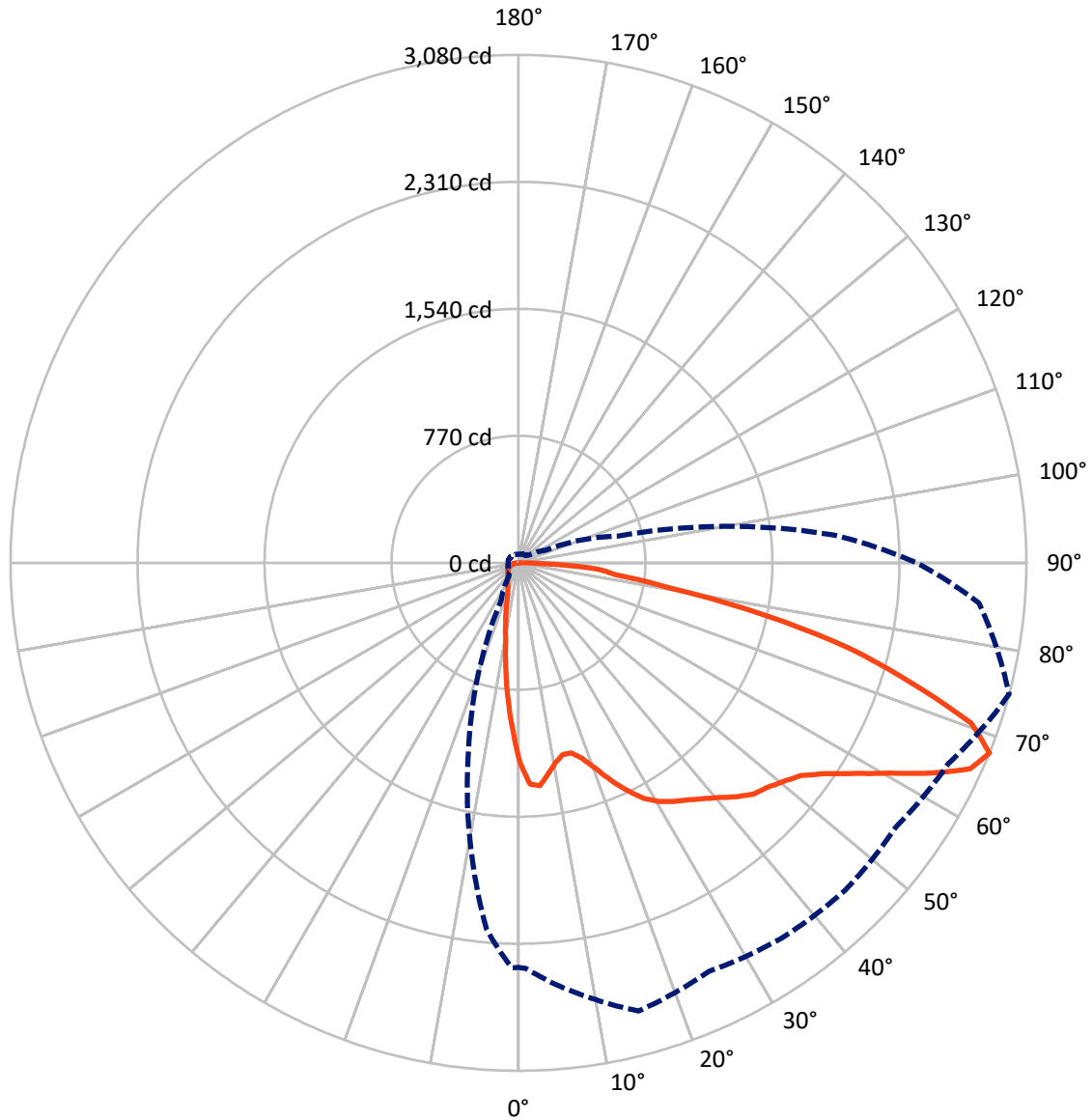
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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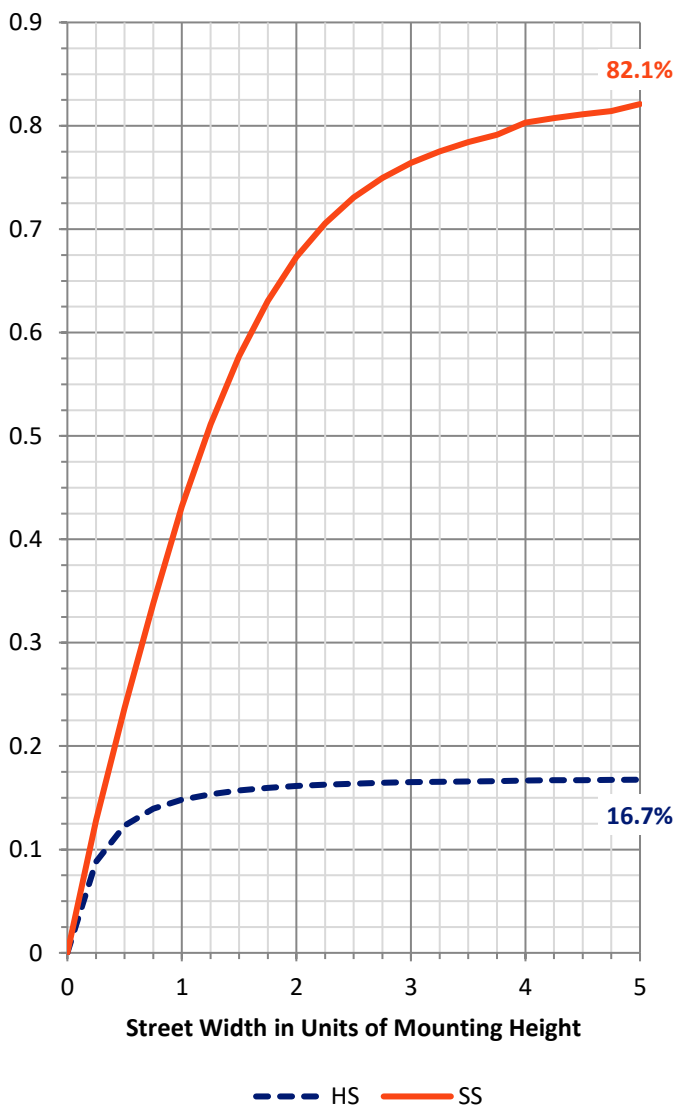
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	656.8	0.0	656.8
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	3229.2	0.0	3229.2
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	3886.0	0.0	3886.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.1	2.4
10°-20°	192.0	4.9
20°-30°	276.4	7.1
30°-40°	398.0	10.2
40°-50°	559.1	14.4
50°-60°	779.8	20.1
60°-70°	927.1	23.9
70°-80°	546.0	14.1
80°-90°	115.5	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°	3886.0	100.0
0°-180°	3886.0	100.0

**Coefficient of Utilization**



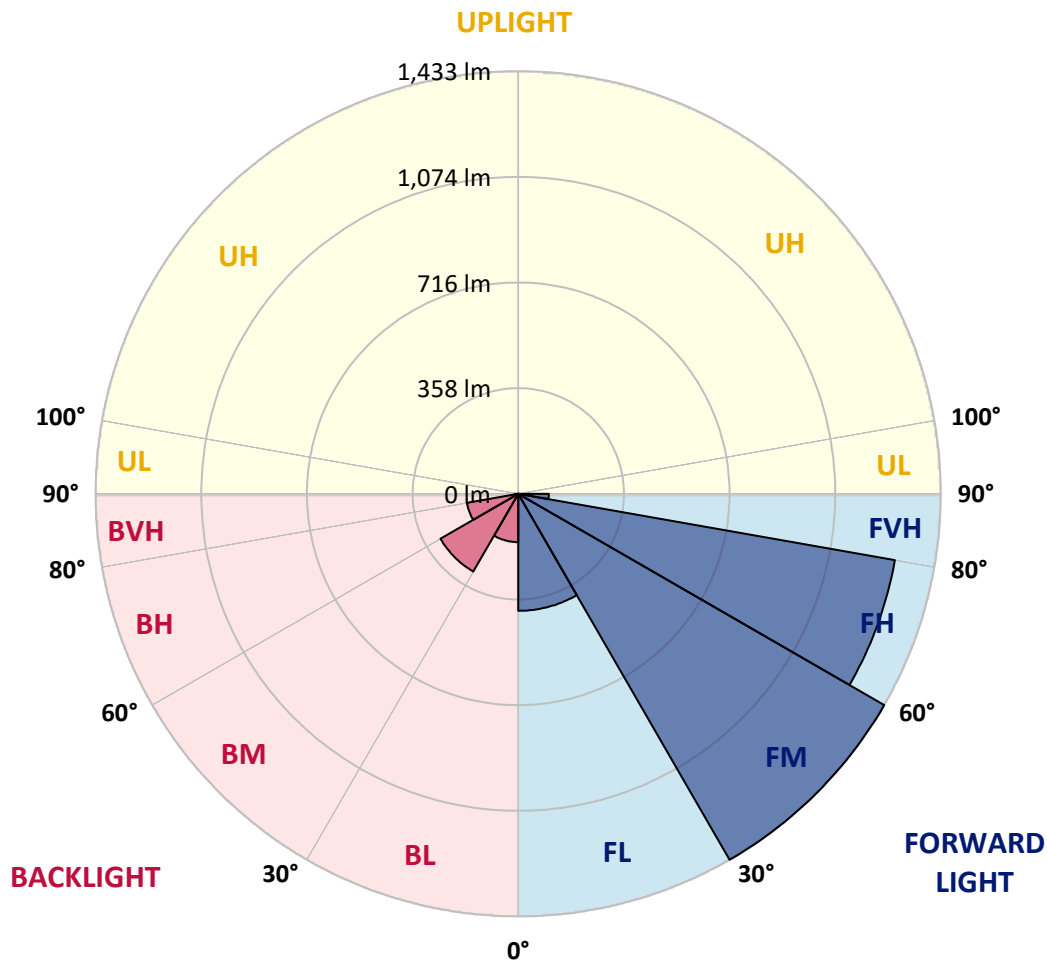
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	396.7	10.2			
FM (30°-60°)	1432.6	36.9			
FH (60°-80°)	1296.4	33.4			G1/1800
FVH (80°-90°)	103.5	2.7			G2/225
BL (0°-30°)	163.8	4.2	B1/500		
BM (30°-60°)	304.3	7.8	B1/1000		
BH (60°-80°)	176.7	4.5	B1/500		G1/500
BVH (80°-90°)	11.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1
2.5°	1309.0	1310.7	1322.0	1354.7	1377.1	1385.3	1391.0	1380.3	1369.9	1344.4	1306.0
5°	1305.0	1315.3	1344.4	1417.7	1475.5	1500.4	1507.9	1475.7	1422.6	1357.4	1278.9
7.5°	1228.8	1242.5	1287.3	1410.2	1512.1	1570.5	1562.7	1504.6	1408.9	1292.6	1183.0
10°	1138.3	1153.5	1207.6	1356.2	1487.5	1567.7	1567.7	1496.9	1369.9	1231.5	1105.2
12.5°	1066.5	1082.5	1144.3	1300.6	1436.1	1512.1	1524.8	1464.1	1341.7	1192.9	1054.1
15°	1042.9	1058.3	1124.9	1266.9	1381.8	1428.1	1432.4	1412.5	1328.0	1195.6	1051.9
17.5°	1072.3	1092.2	1159.5	1276.9	1332.0	1334.7	1337.9	1353.7	1329.5	1245.8	1097.2
20°	1157.3	1178.7	1249.0	1309.0	1288.3	1259.9	1261.6	1302.1	1347.2	1328.4	1205.6
22.5°	1279.9	1298.5	1370.6	1365.6	1269.9	1211.4	1199.2	1255.5	1373.3	1431.6	1321.0
25°	1412.2	1434.1	1516.8	1449.6	1275.1	1182.4	1174.7	1228.1	1400.5	1528.1	1454.3
27.5°	1563.7	1585.1	1650.4	1534.3	1302.5	1180.2	1171.0	1225.6	1424.9	1617.3	1581.7
30°	1676.3	1696.1	1740.4	1605.5	1336.2	1195.2	1183.7	1245.2	1445.8	1678.4	1705.8
32.5°	1764.8	1785.2	1809.4	1649.9	1380.6	1222.3	1201.1	1281.1	1473.2	1724.9	1797.7
35°	1857.0	1881.2	1879.4	1689.3	1421.9	1253.7	1233.0	1333.0	1516.4	1765.6	1914.4
37.5°	1973.9	1983.6	1971.1	1724.7	1471.5	1310.3	1298.8	1409.9	1577.7	1814.7	2050.7
40°	2092.5	2111.9	2047.9	1767.5	1531.8	1416.7	1415.4	1523.9	1650.4	1872.2	2182.7
42.5°	2194.2	2210.6	2119.7	1805.0	1604.8	1546.5	1556.0	1676.6	1745.9	1939.0	2288.9
45°	2270.7	2285.4	2186.0	1841.1	1701.0	1696.5	1752.4	1840.3	1866.2	1999.1	2351.2
47.5°	2335.7	2349.9	2232.0	1895.9	1819.8	1875.7	1972.9	2011.1	1969.2	2033.5	2421.0
50°	2390.6	2394.8	2263.7	1961.2	1967.4	2095.2	2189.4	2214.1	2070.8	2082.8	2481.5
52.5°	2447.6	2442.1	2318.3	2043.4	2126.9	2303.6	2372.1	2397.8	2168.3	2143.6	2569.7
55°	2575.4	2580.7	2440.6	2147.1	2288.2	2508.2	2598.4	2573.7	2276.2	2255.5	2681.9
57.5°	2729.9	2725.5	2612.8	2309.3	2452.4	2698.5	2765.9	2726.2	2420.2	2409.2	2795.5
60°	2790.0	2796.0	2756.9	2483.8	2614.4	2865.2	2934.1	2872.5	2592.9	2587.9	2881.2
62.5°	2729.7	2763.4	2789.8	2639.0	2752.4	2987.8	3056.1	2985.9	2773.1	2809.2	2941.3
65°	2609.6	2616.8	2706.8	2770.6	2818.9	3008.1	3043.7	3006.3	2923.6	3010.8	2938.5
67.5°	2453.6	2459.8	2565.3	2813.7	2733.2	2778.8	2803.7	2792.7	2877.0	3079.9	2803.2
70°	2305.1	2300.1	2411.5	2703.8	2379.3	2310.1	2330.8	2296.4	2482.5	2911.1	2537.9
72.5°	2016.0	2033.9	2153.6	2398.3	1883.9	1771.3	1816.4	1727.5	1909.3	2493.2	2059.8
75°	1579.2	1583.4	1783.0	2012.8	1421.1	1243.5	1304.6	1267.4	1462.6	2079.8	1422.4
77.5°	1093.5	1084.0	1298.5	1537.3	1013.5	910.3	911.3	893.6	1021.2	1531.3	966.4
80°	694.5	680.0	812.9	949.7	696.5	745.1	720.7	720.0	664.8	944.7	584.4
82.5°	375.3	391.3	513.6	595.3	499.6	575.9	527.8	512.3	456.3	591.3	373.8
85°	170.9	185.9	273.9	405.0	379.5	383.7	256.4	302.6	377.6	480.2	199.6
87.5°	16.7	21.5	56.5	191.1	129.6	102.2	38.1	73.5	95.0	170.7	16.0
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1
2.5°	1290.3	1277.4	1233.3	1196.9	1158.3	1128.9	1090.5	1064.8	1047.1	1020.5	1017.2
5°	1231.0	1199.4	1122.7	1044.4	976.9	926.1	874.5	827.1	799.2	790.4	779.2
7.5°	1131.1	1077.8	979.1	889.4	811.9	736.1	677.8	636.4	608.8	592.6	573.2
10°	1048.9	987.0	866.9	757.1	693.3	646.1	594.8	550.4	516.3	487.2	471.2
12.5°	993.5	923.8	788.7	699.5	650.1	600.1	540.0	490.2	439.8	406.7	392.5
15°	976.9	903.1	764.5	670.9	600.1	534.6	467.2	402.2	352.4	321.0	310.5
17.5°	1017.7	928.5	764.3	632.7	541.3	463.0	376.8	315.7	264.7	241.2	233.7
20°	1094.0	977.3	766.6	595.1	477.5	367.3	274.1	224.0	199.6	189.6	185.9
22.5°	1200.4	1051.9	773.3	558.0	407.7	282.1	205.3	179.9	171.2	169.4	168.7
25°	1331.5	1144.0	795.9	524.5	348.9	215.3	171.7	160.2	155.3	153.5	153.2
27.5°	1452.1	1263.2	823.3	495.9	292.1	185.6	155.3	145.6	140.5	140.3	140.8
30°	1561.0	1362.9	846.3	463.8	248.9	165.0	144.5	134.8	130.1	129.8	131.3
32.5°	1655.2	1444.9	863.2	432.1	225.0	152.3	134.8	124.3	120.3	119.6	120.3
35°	1755.9	1526.6	855.5	407.5	211.3	141.8	127.6	117.4	112.7	110.4	110.4
37.5°	1870.7	1610.8	842.3	387.0	205.1	133.1	121.4	111.4	106.6	104.5	104.1
40°	1996.1	1695.0	824.1	368.8	198.9	127.9	117.1	106.6	100.9	98.7	98.2
42.5°	2106.7	1767.1	809.2	356.8	188.6	128.8	113.4	103.2	95.9	92.9	92.7
45°	2202.9	1839.6	806.4	349.8	180.2	127.3	112.4	100.5	91.9	88.7	88.2
47.5°	2278.1	1915.1	822.1	345.9	170.9	119.3	118.9	98.7	88.5	85.0	84.5
50°	2369.8	2022.3	858.0	337.6	162.5	111.9	125.6	98.4	85.7	81.3	80.0
52.5°	2492.0	2161.8	906.6	323.0	150.3	104.9	119.9	98.4	82.4	78.0	76.5
55°	2676.6	2339.7	954.2	302.2	133.1	95.7	108.1	95.4	77.8	73.8	72.7
57.5°	2799.0	2469.8	984.5	273.6	111.7	88.9	93.2	90.7	73.0	68.7	68.7
60°	2805.2	2504.7	970.1	237.5	98.2	82.8	81.0	91.5	68.7	64.3	63.8
62.5°	2733.5	2419.2	894.9	205.1	91.0	76.0	73.3	80.3	64.5	60.1	59.3
65°	2621.3	2201.2	764.3	189.6	87.0	70.0	66.0	65.8	60.1	55.8	54.8
67.5°	2415.2	1923.5	628.0	180.6	85.0	63.3	59.6	58.3	54.8	51.4	50.8
70°	2111.4	1611.0	503.6	177.0	84.0	56.3	53.3	51.8	48.9	46.1	45.9
72.5°	1642.7	1306.8	415.7	174.5	83.5	49.9	46.6	44.6	42.8	40.4	40.4
75°	1180.0	961.4	317.2	157.2	77.3	42.8	39.4	38.1	35.6	33.7	34.1
77.5°	743.8	647.4	208.8	115.6	59.8	34.4	31.4	30.6	28.7	25.9	27.6
80°	502.4	455.3	121.8	72.7	37.7	25.1	24.2	24.0	21.7	18.7	18.9
82.5°	341.9	335.4	63.3	41.3	21.7	14.7	14.2	14.7	12.2	9.9	9.9
85°	133.6	182.4	29.9	16.2	7.0	2.3	3.2	3.5	2.0	1.0	1.3
87.5°	2.5	18.7	0.8	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°	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1
2.5°	1012.3	1010.0	1013.8	997.8	1001.0	1007.0	1010.0	1011.7	1036.4	1030.7	1046.4
5°	789.7	787.5	801.9	803.9	811.4	809.9	817.1	818.9	827.9	831.1	853.0
7.5°	574.4	584.1	600.6	609.0	621.8	625.7	622.0	631.3	612.5	626.0	630.0
10°	461.5	449.8	442.8	462.3	464.8	483.2	475.8	469.7	480.7	481.2	491.6
12.5°	384.3	359.1	342.4	347.9	353.8	361.8	363.1	375.1	383.0	390.5	396.7
15°	301.3	292.5	277.3	269.9	278.4	281.6	289.3	299.3	307.8	310.0	318.4
17.5°	231.2	232.8	230.3	225.7	231.0	233.5	234.0	234.3	236.5	235.0	247.4
20°	186.1	191.4	197.6	198.6	200.4	201.6	199.4	190.9	191.1	196.4	200.4
22.5°	168.4	169.4	176.4	178.7	184.2	181.9	175.5	171.5	170.9	172.2	174.2
25°	154.5	156.0	161.0	164.5	168.7	164.7	160.0	156.2	155.7	157.0	158.9
27.5°	142.0	144.3	148.8	152.3	156.2	152.5	148.0	144.8	144.5	144.3	145.6
30°	132.1	134.6	137.8	141.8	144.5	141.3	137.0	135.3	135.1	134.6	135.1
32.5°	122.1	126.1	129.4	131.3	134.0	131.5	128.3	127.3	125.6	124.1	123.3
35°	110.9	115.1	120.1	122.6	125.4	122.9	120.6	116.4	113.4	113.1	113.6
37.5°	104.5	106.2	110.2	114.4	117.1	115.9	111.7	107.4	106.6	106.6	107.2
40°	98.7	99.4	101.2	106.6	111.7	107.9	102.7	101.4	101.4	101.2	101.4
42.5°	92.9	93.7	93.7	98.0	105.9	99.9	95.9	95.9	95.9	96.2	96.9
45°	87.7	87.9	87.7	90.7	98.2	93.2	90.4	91.2	91.7	92.2	92.7
47.5°	83.2	83.5	83.2	85.7	89.5	87.5	86.0	87.0	87.9	88.7	89.2
50°	79.2	79.0	79.5	81.0	82.8	83.2	82.2	83.7	84.3	85.2	86.4
52.5°	75.8	75.5	76.0	76.7	79.2	79.2	79.2	80.5	81.5	82.4	84.3
55°	71.8	72.0	72.7	73.8	77.0	76.5	76.7	77.8	78.8	80.3	81.3
57.5°	68.0	68.5	69.5	71.0	74.2	74.0	74.2	74.8	76.0	76.7	77.8
60°	63.8	64.8	66.0	67.0	70.2	70.0	71.3	72.3	73.0	73.0	73.5
62.5°	59.6	61.1	62.3	63.0	66.6	66.8	68.5	69.3	69.8	69.3	70.0
65°	55.4	57.6	58.1	59.0	62.6	62.8	64.8	66.6	66.0	65.5	66.8
67.5°	51.1	53.8	53.6	54.8	58.3	58.8	60.5	63.6	62.6	62.0	63.0
70°	46.4	48.3	48.6	49.3	54.1	53.3	56.1	58.8	58.1	58.3	58.3
72.5°	41.1	42.8	42.8	44.4	49.3	48.1	50.3	53.3	53.3	53.1	53.1
75°	34.9	35.9	36.9	39.2	44.4	42.8	44.4	47.1	47.6	47.1	47.1
77.5°	28.2	29.7	30.1	33.1	36.9	36.6	38.1	39.4	40.4	39.9	39.9
80°	20.0	21.5	23.4	26.7	28.9	29.7	30.4	31.4	31.9	31.9	32.4
82.5°	11.2	13.5	15.2	18.5	19.4	23.2	22.9	23.6	22.9	20.2	22.4
85°	2.5	4.7	6.7	8.5	9.7	13.5	14.2	16.0	13.2	12.2	12.2
87.5°	0.0	0.0	0.0	0.0	0.0	2.0	4.0	5.5	4.7	4.0	4.0
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1	1214.1
2.5°	1059.6	1081.2	1107.4	1152.5	1184.2	1218.3	1252.7	1289.4	1299.1	1309.0
5°	859.0	901.6	924.8	985.3	1048.9	1129.6	1195.6	1267.9	1298.1	1305.0
7.5°	650.7	679.6	740.3	801.6	880.4	965.1	1066.3	1179.0	1214.1	1228.8
10°	515.8	555.2	608.5	674.3	743.4	834.5	948.7	1080.3	1130.1	1138.3
12.5°	439.1	483.0	541.0	610.5	675.8	744.6	859.7	995.5	1048.9	1066.5
15°	351.1	404.2	471.2	544.5	615.5	690.8	807.4	960.7	1022.2	1042.9
17.5°	275.9	318.8	391.3	470.7	555.0	650.1	796.5	977.3	1053.1	1072.3
20°	211.1	241.7	302.8	386.7	485.5	610.0	799.2	1040.4	1131.1	1157.3
22.5°	182.4	198.1	235.2	315.2	425.6	575.1	810.4	1126.9	1236.3	1279.9
25°	165.2	173.4	194.3	246.7	368.6	541.3	836.1	1243.2	1383.3	1412.2
27.5°	150.5	156.5	169.4	207.1	316.7	509.9	866.0	1372.4	1520.6	1563.7
30°	136.6	144.5	156.8	183.9	283.6	481.2	903.6	1477.0	1636.2	1676.3
32.5°	125.8	133.8	145.0	167.7	255.4	451.0	926.1	1569.0	1730.7	1764.8
35°	117.1	123.9	135.5	154.7	234.0	428.1	921.5	1642.0	1822.1	1857.0
37.5°	110.9	116.6	128.3	142.5	217.8	404.2	919.3	1738.4	1933.5	1973.9
40°	105.2	111.1	121.8	134.6	201.6	376.1	920.5	1834.1	2052.2	2092.5
42.5°	100.7	107.4	116.1	132.3	184.9	353.4	920.5	1917.3	2155.3	2194.2
45°	96.9	104.1	112.7	132.1	171.7	336.1	914.3	1988.8	2237.5	2270.7
47.5°	93.7	101.6	113.8	127.6	168.4	323.7	908.8	2046.1	2304.6	2335.7
50°	91.5	100.9	121.1	122.4	169.4	319.9	935.2	2118.4	2363.6	2390.6
52.5°	89.7	101.2	120.9	114.6	167.7	322.4	990.3	2231.3	2445.6	2447.6
55°	86.2	100.9	114.6	105.9	160.5	326.7	1061.0	2395.3	2574.0	2575.4
57.5°	82.8	98.2	106.4	98.4	145.8	326.7	1146.3	2550.5	2728.7	2729.9
60°	79.2	102.2	93.4	91.9	126.6	320.7	1236.3	2618.8	2777.3	2790.0
62.5°	75.8	102.9	83.5	86.2	112.7	306.2	1303.3	2543.3	2711.5	2729.7
65°	71.8	83.0	77.0	80.3	105.4	282.1	1282.1	2405.0	2587.9	2609.6
67.5°	67.0	70.2	70.0	74.0	102.9	246.5	1170.5	2230.1	2454.9	2453.6
70°	61.3	63.0	63.8	68.0	98.2	218.8	975.4	2003.1	2277.2	2305.1
72.5°	55.4	56.8	57.6	61.3	93.4	203.1	757.1	1690.3	1972.4	2016.0
75°	48.9	49.9	50.8	54.1	88.5	179.9	539.3	1290.3	1510.6	1579.2
77.5°	42.1	42.1	43.4	46.6	74.5	148.5	361.8	905.1	1023.5	1093.5
80°	34.1	34.4	33.9	37.3	54.8	101.6	205.6	604.6	681.1	694.5
82.5°	26.2	25.4	25.7	27.4	40.9	69.3	109.6	375.5	382.7	375.3
85°	16.4	16.4	16.0	17.9	26.2	36.1	59.8	230.0	179.7	170.9
87.5°	6.7	5.5	6.3	7.2	12.4	14.7	23.4	47.4	18.2	16.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)