

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: P651681

Luminaire Tested: **GALN-SA1A-840-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651681  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-840-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2794.7 lumens  
Efficiency: N/A  
Efficacy: 84.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

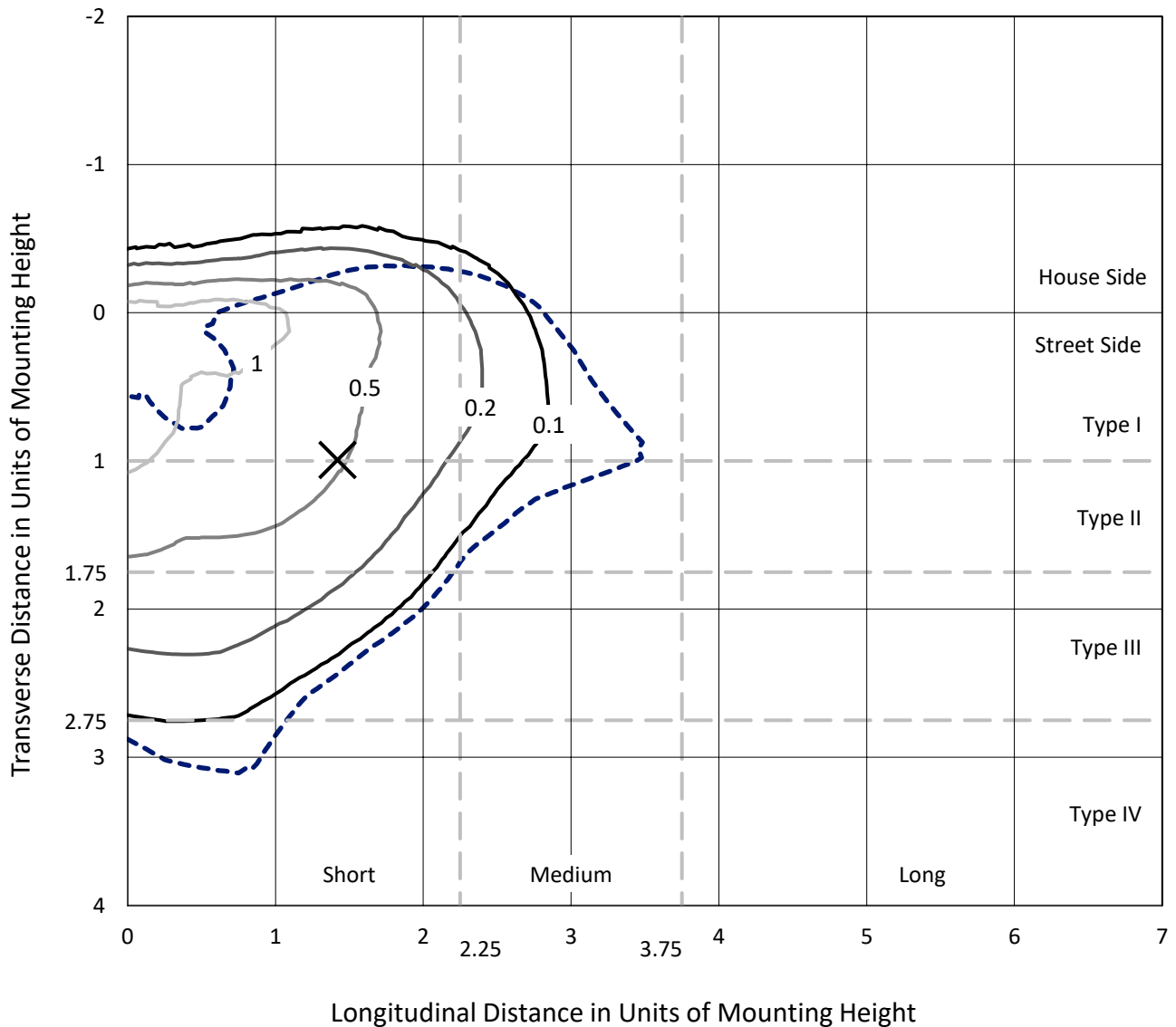
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

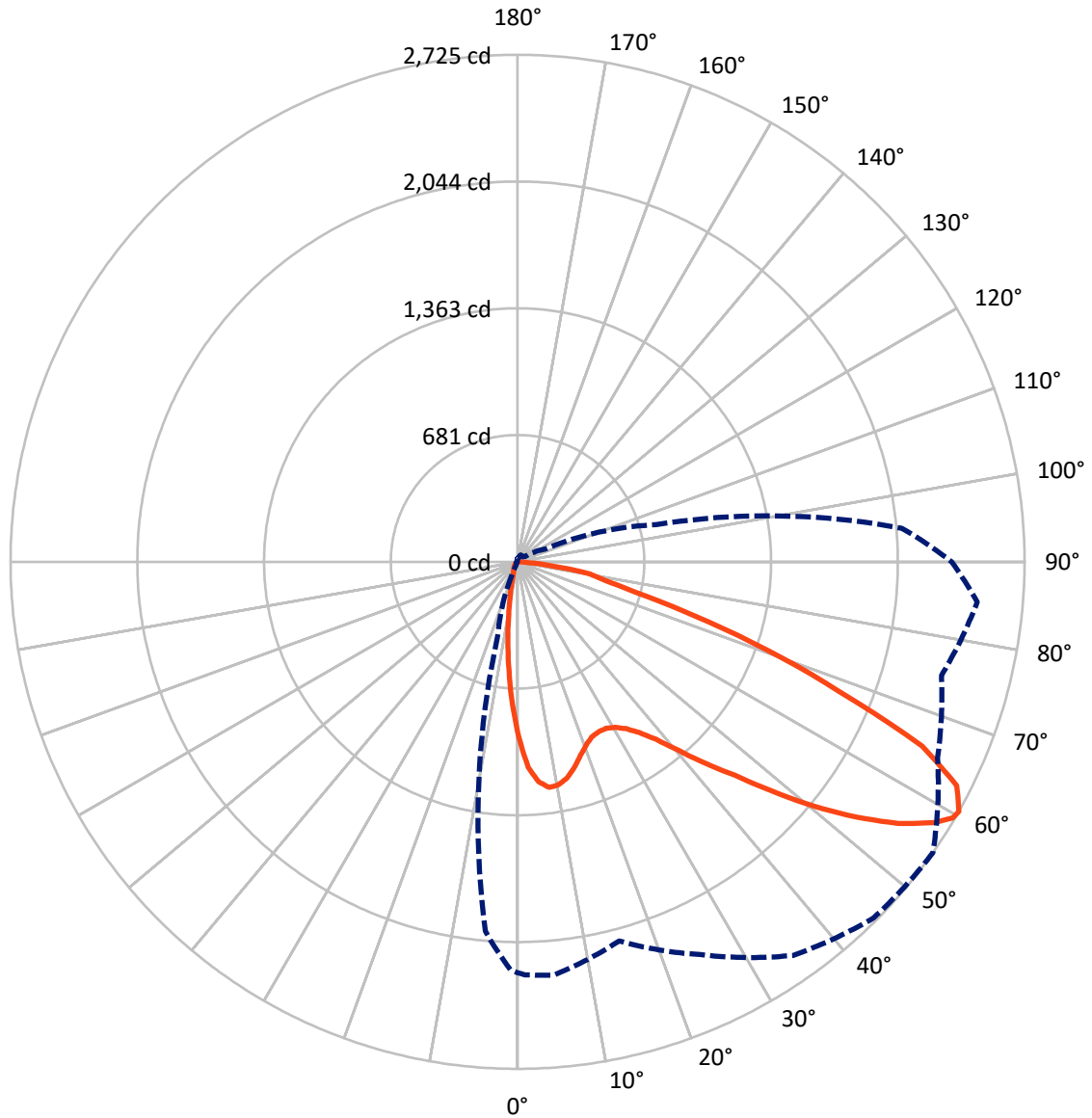
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	414.8	0.0	414.8
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	2379.9	0.0	2379.9
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	2794.7	0.0	2794.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.1	2.5
10°-20°	138.0	4.9
20°-30°	204.2	7.3
30°-40°	304.5	10.9
40°-50°	445.9	16.0
50°-60°	643.7	23.0
60°-70°	677.1	24.2
70°-80°	278.6	10.0
80°-90°	32.6	1.2
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°	2794.7	100.0
0°-180°	2794.7	100.0

**Coefficient of Utilization**

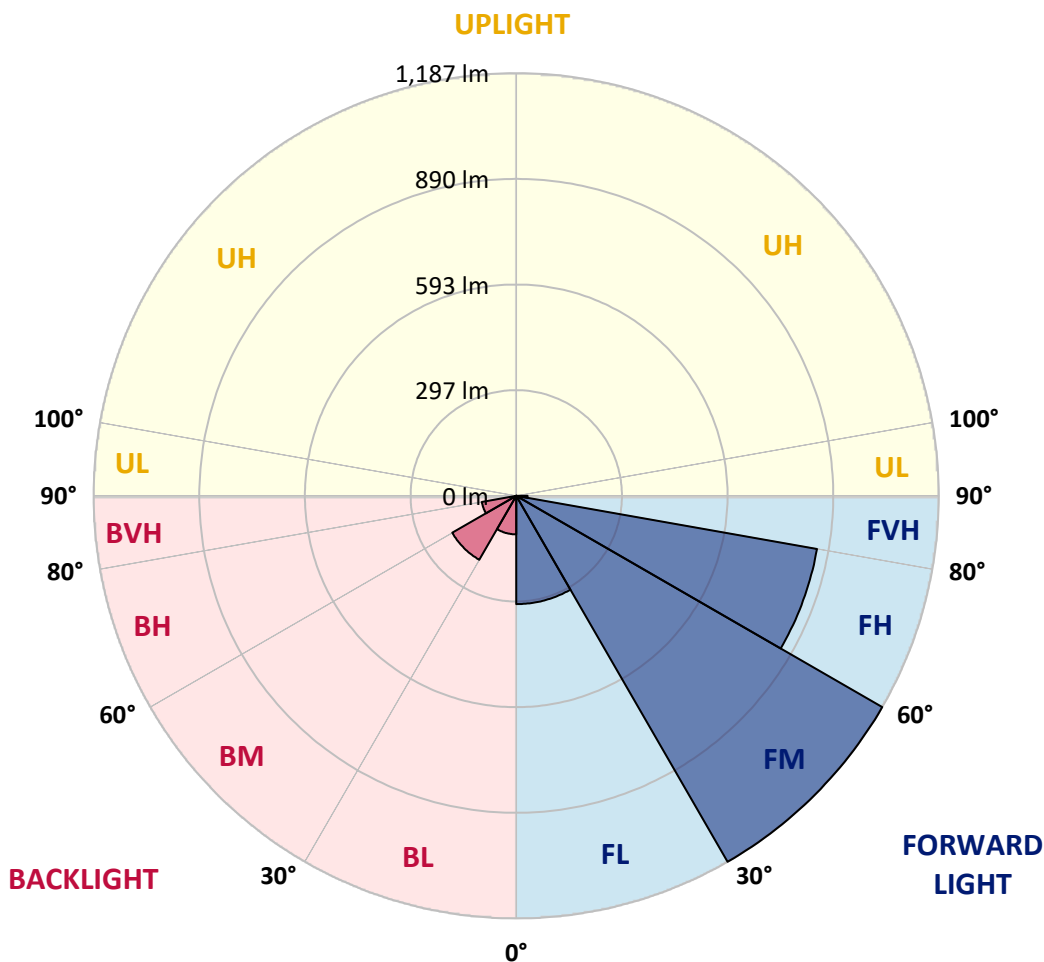


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	304.1	10.9			
FM (30°-60°)	1186.6	42.5			
FH (60°-80°)	857.5	30.7			G1/1800
FVH (80°-90°)	31.7	1.1			G1/100
BL (0°-30°)	108.2	3.9	B0/110		
BM (30°-60°)	207.4	7.4	B0/220		
BH (60°-80°)	98.2	3.5	B0/110		G0/110
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3
2.5°	1033.8	1032.1	1047.4	1072.3	1097.5	1110.6	1108.0	1106.9	1086.1	1070.8	1038.7
5°	1031.7	1040.5	1067.8	1135.4	1186.6	1211.3	1218.6	1187.8	1147.2	1088.3	1015.5
7.5°	969.9	980.9	1025.4	1131.1	1222.1	1275.8	1273.9	1224.6	1140.7	1049.5	945.8
10°	893.3	906.3	958.5	1086.7	1204.8	1275.8	1279.7	1217.3	1113.0	995.9	886.9
12.5°	839.3	854.6	912.5	1045.4	1160.5	1230.4	1234.9	1189.8	1092.1	975.3	854.9
15°	821.1	835.4	894.2	1024.6	1113.4	1151.1	1150.0	1145.3	1084.0	980.3	856.6
17.5°	852.4	864.3	930.6	1034.0	1069.3	1065.5	1071.0	1093.8	1085.6	1021.7	910.8
20°	933.6	945.6	1016.9	1063.0	1035.5	1011.0	1013.6	1051.7	1101.5	1099.9	995.5
22.5°	1045.2	1065.6	1130.1	1119.5	1031.0	977.2	971.9	1021.3	1128.7	1189.8	1110.0
25°	1186.6	1207.2	1257.5	1209.4	1053.2	969.3	964.3	1012.1	1161.6	1277.6	1238.8
27.5°	1305.2	1321.0	1371.1	1296.9	1085.9	972.7	964.5	1013.4	1188.2	1352.2	1347.5
30°	1400.3	1412.0	1441.5	1337.8	1114.1	987.8	978.3	1032.3	1200.1	1388.5	1435.4
32.5°	1477.0	1496.5	1505.7	1381.4	1154.4	1016.2	1000.0	1068.7	1228.9	1433.5	1527.7
35°	1564.5	1587.1	1575.2	1423.1	1207.8	1060.5	1040.7	1127.6	1272.6	1475.0	1634.8
37.5°	1675.4	1701.5	1655.3	1467.0	1264.2	1127.2	1117.9	1210.5	1338.8	1534.4	1749.7
40°	1790.3	1805.4	1732.9	1520.4	1333.5	1224.2	1233.0	1333.5	1425.5	1605.6	1871.9
42.5°	1880.1	1894.3	1812.7	1565.1	1404.2	1339.3	1376.0	1481.8	1524.9	1678.5	1963.1
45°	1948.7	1960.7	1868.0	1614.0	1499.8	1506.0	1575.4	1634.8	1624.5	1723.0	2033.5
47.5°	2002.0	2012.3	1910.6	1666.4	1642.8	1709.9	1816.1	1841.3	1727.8	1771.2	2097.1
50°	2024.0	2027.0	1924.0	1733.3	1805.2	1969.7	2080.5	2065.2	1846.1	1824.7	2164.8
52.5°	2052.5	2051.9	1962.0	1797.0	1957.9	2202.1	2312.6	2278.0	1979.9	1905.0	2241.0
55°	2127.6	2128.5	2043.5	1887.4	2088.0	2389.6	2507.9	2482.8	2121.0	2040.5	2329.8
57.5°	2218.8	2222.1	2159.4	1993.0	2212.4	2525.6	2653.8	2644.1	2311.7	2191.3	2413.8
59°	2230.7	2237.1	2214.4	2067.4	2286.2	2567.3	2703.6	2713.2	2413.9	2290.7	2459.1
60°	2209.1	2219.9	2230.2	2109.6	2329.4	2582.4	2706.7	2725.2	2490.7	2358.2	2479.8
62.5°	2115.4	2132.4	2184.2	2239.2	2383.4	2535.4	2610.5	2649.2	2585.8	2535.7	2481.7
65°	1992.6	2001.3	2076.2	2262.3	2278.6	2316.5	2339.7	2389.4	2471.6	2604.1	2392.9
67.5°	1791.2	1817.2	1908.9	2128.7	1969.5	1924.8	1919.0	1869.5	2082.9	2441.0	2173.9
70°	1479.7	1491.3	1604.3	1745.2	1486.4	1417.6	1445.1	1426.6	1614.6	2101.4	1749.7
72.5°	1119.0	1145.3	1255.6	1391.1	1011.5	922.2	998.1	991.2	1212.8	1688.8	1202.0
75°	796.1	813.1	953.8	1088.7	708.4	600.1	627.5	653.0	846.6	1333.5	710.3
77.5°	547.0	561.6	667.2	720.0	516.7	494.9	452.8	477.5	554.7	791.1	386.5
80°	330.0	329.3	398.8	411.8	359.9	418.0	350.6	393.7	335.4	338.6	149.7
82.5°	214.3	212.1	243.9	265.8	200.2	210.6	141.3	203.7	218.6	94.4	47.3
85°	96.0	100.0	117.2	154.7	87.8	46.7	28.8	62.6	93.2	47.5	0.0
87.5°	9.9	7.7	20.7	37.7	12.0	1.3	4.3	2.2	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3
2.5°	1023.9	1011.5	974.2	939.4	909.5	872.9	849.2	812.1	789.4	782.6	783.6
5°	982.8	946.9	876.2	819.6	756.6	720.6	666.0	613.5	585.1	574.6	569.9
7.5°	896.8	858.2	772.9	684.1	616.5	553.5	512.8	466.6	435.0	408.9	404.4
10°	832.9	782.4	676.5	581.0	527.6	480.3	439.7	393.4	356.2	326.6	318.3
12.5°	794.6	738.1	619.9	539.9	489.4	440.8	387.9	334.3	296.2	264.2	249.3
15°	787.8	722.1	604.0	510.5	448.1	389.4	319.0	261.1	222.0	191.7	182.4
17.5°	829.2	750.8	601.7	479.7	394.1	310.8	237.7	189.7	145.7	128.7	121.9
20°	903.2	801.3	601.4	444.0	338.6	239.4	166.9	123.7	105.8	97.6	93.8
22.5°	1004.2	870.1	612.8	413.2	280.9	176.6	119.2	98.5	88.2	81.5	80.0
25°	1127.4	972.1	640.8	392.3	236.8	138.5	98.3	84.4	75.7	72.7	71.4
27.5°	1236.9	1069.8	671.5	370.9	205.2	122.6	91.2	77.2	70.3	68.0	66.0
30°	1331.3	1158.4	686.4	342.5	179.8	112.3	92.5	82.6	73.6	66.4	63.2
32.5°	1410.0	1226.3	696.1	316.6	158.4	91.8	73.2	63.9	59.8	57.2	55.1
35°	1508.6	1299.9	690.3	302.0	147.3	83.7	66.7	55.1	48.2	43.1	40.9
37.5°	1611.8	1373.4	680.2	290.0	142.4	77.6	63.5	52.3	44.7	39.4	36.6
40°	1718.8	1441.6	668.3	278.8	137.9	73.8	61.6	49.9	42.4	36.6	33.6
42.5°	1816.6	1508.1	663.6	271.5	130.6	74.4	60.0	48.9	40.0	34.0	31.4
45°	1895.8	1571.2	670.0	267.6	122.6	73.3	60.5	47.5	38.1	32.3	29.7
47.5°	1980.3	1660.2	691.0	263.7	114.9	68.2	63.7	47.3	37.2	31.2	28.4
50°	2078.6	1774.2	738.7	254.2	105.4	62.6	67.8	47.1	36.2	29.9	27.1
52.5°	2209.6	1903.7	787.9	237.7	91.7	57.2	64.8	46.4	34.0	28.4	25.6
55°	2327.2	2040.1	829.6	218.2	74.2	49.5	58.3	43.6	30.4	25.8	23.2
57.5°	2375.8	2117.0	828.4	191.0	59.4	43.5	47.9	40.0	26.5	22.8	20.7
59°	2358.0	2107.4	800.6	171.0	54.2	40.2	39.8	39.6	24.7	20.7	18.9
60°	2332.8	2072.1	770.7	161.1	51.0	38.1	36.6	39.2	23.2	19.3	17.7
62.5°	2236.5	1925.9	671.5	144.3	46.7	32.3	29.3	33.1	20.7	16.8	15.3
65°	2096.9	1701.1	568.5	139.6	45.4	26.7	24.3	23.6	17.7	14.2	12.9
67.5°	1824.5	1439.5	460.5	136.4	45.8	22.4	21.3	17.8	14.6	11.9	10.9
70°	1460.8	1122.4	377.1	132.7	46.3	18.2	17.8	14.2	11.9	9.9	9.0
72.5°	887.5	665.3	296.9	115.3	45.0	14.6	15.9	10.8	8.6	7.1	6.6
75°	548.8	455.4	184.1	89.7	29.7	10.8	11.2	6.6	5.8	4.5	4.5
77.5°	317.9	287.6	65.9	32.3	13.1	6.5	5.0	3.4	3.2	1.9	1.9
80°	131.9	105.6	22.8	10.9	7.1	3.0	1.1	0.3	0.0	0.0	0.0
82.5°	38.5	34.2	6.2	5.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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°	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3
2.5°	765.4	758.2	755.0	766.0	755.9	768.8	758.9	763.2	775.9	781.5	795.9
5°	572.8	565.5	562.0	578.6	577.8	585.9	585.1	592.7	599.0	584.7	599.5
7.5°	399.1	394.1	402.3	415.1	428.9	424.4	424.4	414.3	417.7	415.6	414.9
10°	303.5	286.5	282.2	281.8	286.9	288.0	282.2	268.3	273.4	274.9	283.9
12.5°	238.8	225.6	205.6	196.6	194.3	196.2	177.0	164.8	170.6	167.1	175.9
15°	171.2	160.5	148.6	138.5	135.7	131.9	111.0	96.4	94.6	95.3	96.8
17.5°	122.2	114.9	114.9	104.1	98.3	86.7	76.1	69.7	69.0	69.7	70.8
20°	90.2	86.3	85.9	83.0	76.6	68.8	61.6	60.2	59.8	60.9	61.3
22.5°	77.6	73.6	70.1	69.9	63.9	57.4	54.0	52.3	52.5	52.9	54.0
25°	69.5	65.2	61.6	59.4	55.1	50.5	47.3	46.4	46.4	47.1	47.3
27.5°	63.7	58.3	55.1	52.1	48.2	44.3	41.5	40.9	40.5	40.9	42.0
30°	59.5	54.2	50.1	45.6	42.6	38.9	36.6	35.7	35.5	35.7	36.6
32.5°	51.0	47.8	44.5	40.5	36.8	34.4	31.9	30.4	30.4	30.8	31.6
35°	38.5	36.8	36.6	35.5	32.5	29.9	26.9	25.4	25.4	26.2	26.7
37.5°	34.0	30.8	30.4	29.9	28.6	25.1	22.4	21.1	20.9	21.5	22.4
40°	30.9	27.3	25.4	25.0	25.1	21.3	18.2	17.0	17.0	17.2	18.1
42.5°	28.6	24.3	20.9	20.4	21.3	17.8	14.8	13.5	13.5	13.5	14.6
45°	26.7	21.7	17.7	15.5	16.8	14.6	12.0	10.8	10.3	10.8	11.2
47.5°	25.4	19.8	15.5	12.4	12.4	11.6	9.7	8.2	7.7	8.0	8.6
50°	24.3	18.1	13.1	10.1	9.0	9.3	7.3	6.2	5.8	5.8	6.5
52.5°	22.6	16.3	11.4	8.6	6.9	6.2	5.4	4.5	4.3	4.5	5.0
55°	20.4	14.8	9.9	7.1	5.4	4.3	3.9	3.2	3.0	3.2	3.9
57.5°	18.1	12.4	8.0	5.6	3.6	2.8	2.6	2.2	1.7	1.9	2.4
59°	16.6	11.2	6.9	4.5	2.8	1.9	1.9	1.5	1.1	1.3	1.9
60°	15.9	10.3	5.8	3.9	2.4	1.5	1.5	1.1	0.7	0.8	1.5
62.5°	13.5	8.6	4.5	2.4	1.1	0.3	0.7	0.3	0.0	0.3	0.7
65°	11.4	6.9	3.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3
67.5°	9.5	5.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7.6	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5.1	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3	946.3
2.5°	796.8	827.5	846.5	882.1	918.7	946.9	982.2	1013.8	1026.9	1033.8
5°	614.6	657.4	693.7	748.2	798.7	860.2	922.6	996.2	1024.3	1031.7
7.5°	431.3	475.0	513.0	576.1	648.2	730.5	823.8	917.2	958.3	969.9
10°	311.5	358.2	404.6	467.7	535.0	624.3	721.5	837.0	884.3	893.3
12.5°	196.6	246.7	322.3	400.1	471.3	543.1	644.9	770.5	822.8	839.3
15°	114.0	151.5	208.4	310.0	400.6	495.6	606.6	745.5	804.1	821.1
17.5°	76.4	89.2	128.4	206.0	325.6	451.7	596.9	766.0	830.7	852.4
20°	64.3	70.1	83.9	125.6	250.8	412.6	599.5	821.5	906.4	933.6
22.5°	56.6	62.0	70.8	90.3	175.1	364.0	611.7	900.9	1010.5	1045.2
25°	49.9	55.3	63.0	74.8	117.7	307.8	638.7	1017.0	1148.5	1186.6
27.5°	44.3	49.3	55.9	66.0	90.6	245.2	662.5	1130.1	1274.3	1305.2
30°	39.2	43.2	49.7	57.4	75.3	189.1	674.6	1229.1	1366.0	1400.3
32.5°	34.0	37.8	44.1	50.4	62.0	144.1	666.2	1301.9	1455.0	1477.0
35°	29.0	33.1	38.3	44.1	53.6	116.4	624.3	1383.6	1547.3	1564.5
37.5°	25.0	28.4	33.8	38.3	48.4	93.2	573.5	1457.1	1650.7	1675.4
40°	21.1	24.6	29.9	34.0	44.5	73.3	527.6	1538.9	1759.8	1790.3
42.5°	17.2	21.3	26.0	32.7	38.3	55.9	472.1	1605.1	1841.8	1880.1
45°	13.8	18.2	23.5	32.5	33.3	42.6	418.6	1656.8	1914.3	1948.7
47.5°	10.9	15.5	22.6	30.4	27.3	33.8	388.0	1710.8	1974.5	2002.0
50°	8.8	12.9	23.6	26.7	22.8	28.6	387.2	1771.0	2005.7	2024.0
52.5°	7.1	10.5	20.0	20.4	19.3	25.1	410.4	1838.8	2037.5	2052.5
55°	6.1	8.8	13.1	15.1	17.4	22.8	427.8	1943.0	2113.4	2127.6
57.5°	4.7	7.6	10.1	12.0	15.5	20.9	430.3	2023.5	2209.6	2218.8
59°	4.1	6.5	9.0	10.8	14.2	19.6	420.5	2028.5	2215.8	2230.7
60°	3.4	5.8	8.0	10.1	13.1	18.5	410.0	1992.6	2192.6	2209.1
62.5°	2.6	4.5	5.8	8.2	10.8	15.9	360.1	1867.1	2103.8	2115.4
65°	1.7	3.2	4.3	6.1	8.4	13.8	293.4	1704.5	1966.5	1992.6
67.5°	1.1	2.4	3.4	4.5	6.9	11.6	209.1	1461.7	1774.4	1791.2
70°	0.7	1.5	2.6	3.6	5.4	9.3	124.1	1155.4	1476.3	1479.7
72.5°	0.4	1.1	1.7	2.6	4.3	8.4	60.2	753.1	1077.9	1119.0
75°	0.3	0.7	1.1	1.9	3.4	6.9	28.8	503.2	784.3	796.1
77.5°	0.0	0.3	0.7	1.3	2.6	5.4	16.8	330.4	534.8	547.0
80°	0.0	0.0	0.4	1.1	1.9	3.4	10.1	194.9	324.0	330.0
82.5°	0.0	0.0	0.3	0.8	1.3	2.6	5.1	85.6	212.1	214.3
85°	0.0	0.0	0.3	0.8	1.1	1.7	1.9	11.6	94.2	96.0
87.5°	0.0	0.0	0.3	1.1	1.1	1.1	1.1	0.7	8.0	9.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)