

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: P324615

Luminaire Tested: **GLEON-SA1D-827-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324615  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1D-827-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4428 lumens  
Efficiency: N/A  
Efficacy: 66.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G1

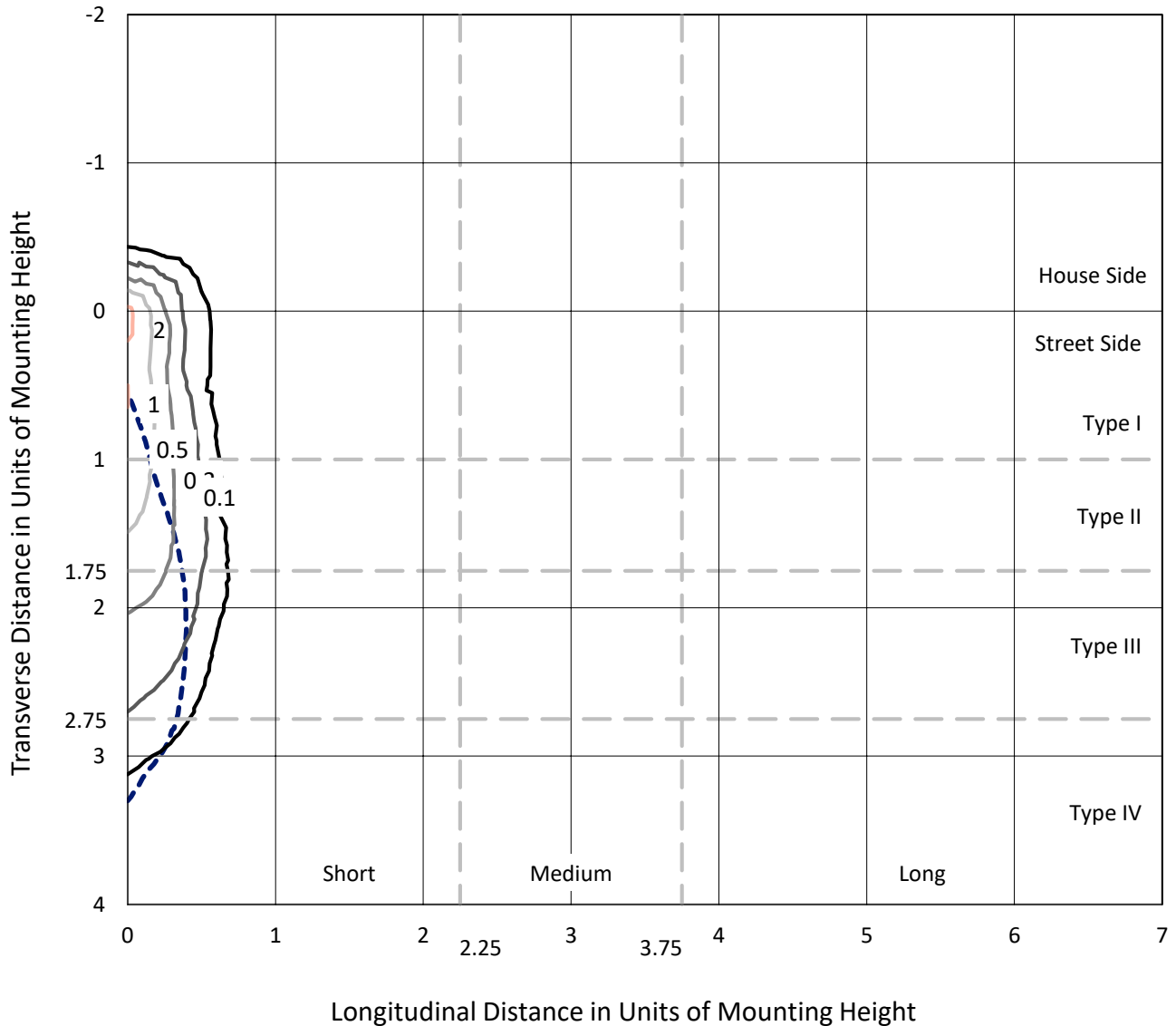
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

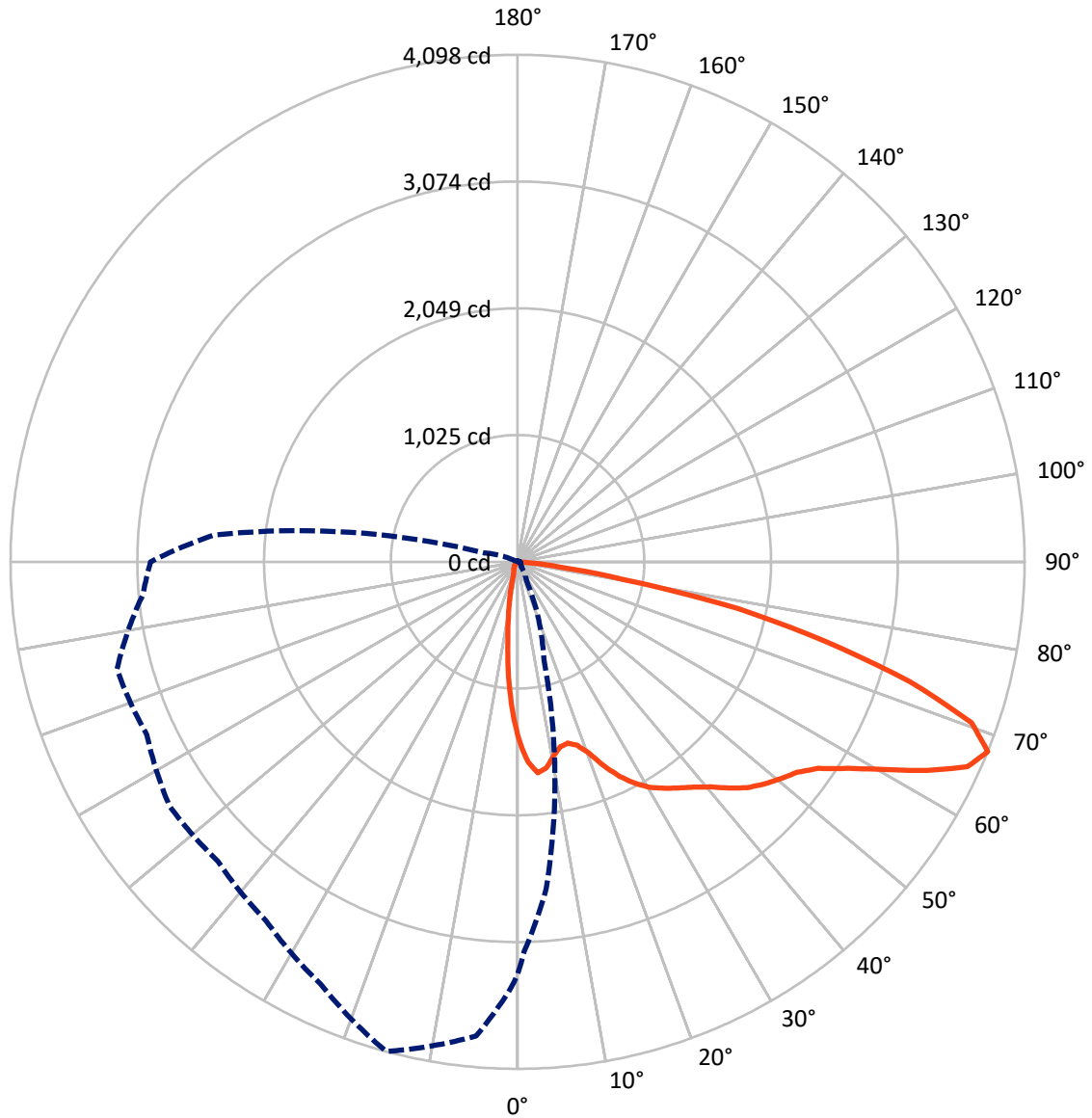
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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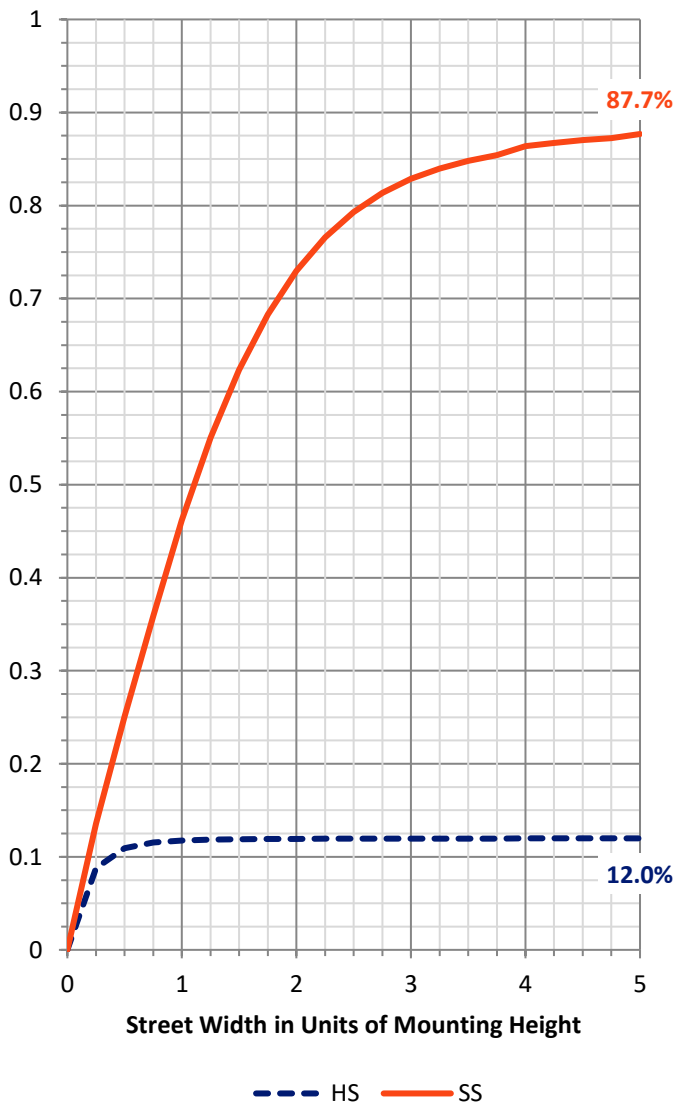
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	535.9	0.0	535.9
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	3892.1	0.0	3892.1
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	4428.0	0.0	4428.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.7	2.5
10°-20°	220.4	5.0
20°-30°	312.9	7.1
30°-40°	462.2	10.4
40°-50°	666.6	15.1
50°-60°	935.7	21.1
60°-70°	1090.8	24.6
70°-80°	557.6	12.6
80°-90°	71.2	1.6
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°	4428.0	100.0
0°-180°	4428.0	100.0

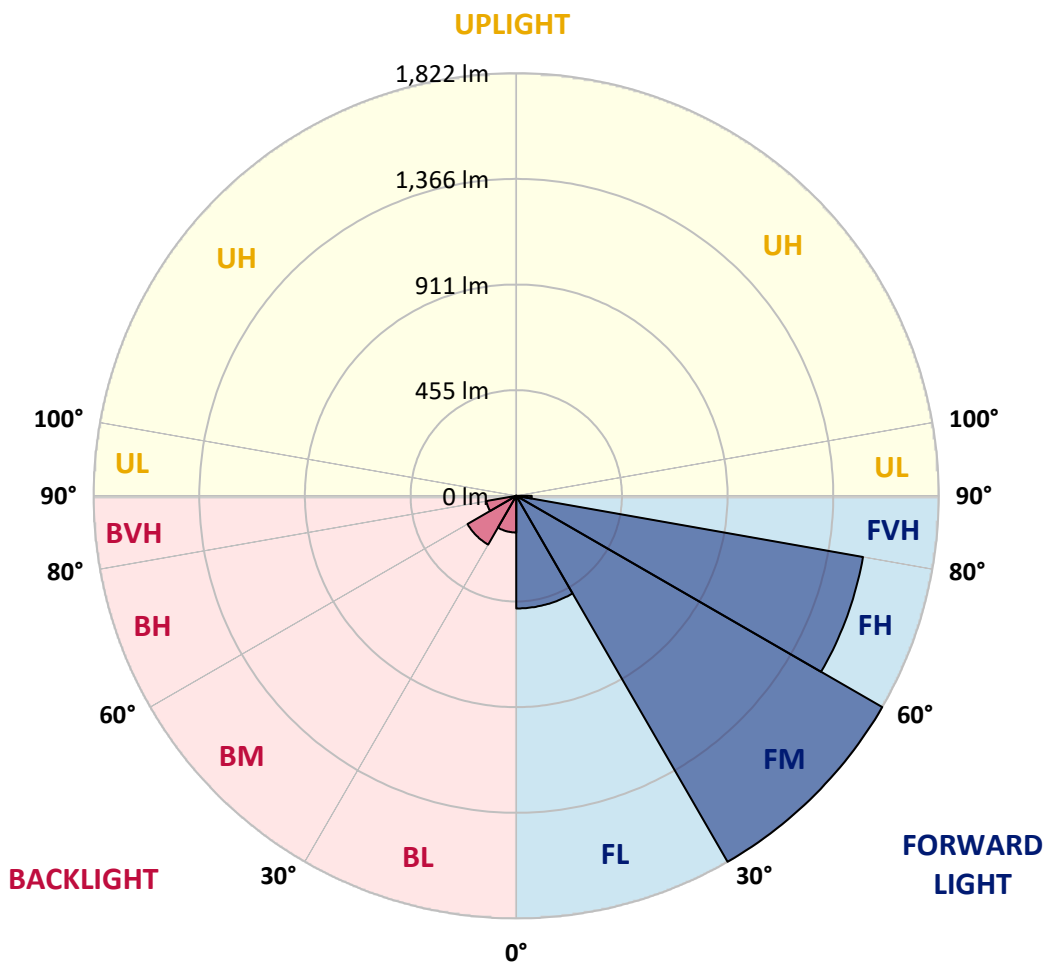


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	485.7	11.0			
FM (30°-60°)	1821.8	41.1			
FH (60°-80°)	1517.8	34.3			G1/1800
FVH (80°-90°)	66.9	1.5			G1/100
BL (0°-30°)	158.3	3.6	B1/500		
BM (30°-60°)	242.7	5.5	B1/1000		
BH (60°-80°)	130.6	2.9	B1/500		G1/500
BVH (80°-90°)	4.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4
2.5°	1579.4	1567.2	1553.8	1510.0	1469.3	1422.7	1384.7	1358.3	1325.1	1282.1	1271.2
5°	1568.1	1555.1	1512.9	1415.4	1330.0	1246.9	1166.8	1119.8	1061.5	1002.3	987.6
7.5°	1454.2	1440.5	1379.7	1246.1	1131.1	1011.1	907.1	842.7	776.8	722.7	693.9
10°	1335.6	1320.7	1252.4	1090.2	948.6	840.1	763.8	702.3	640.0	582.1	536.0
12.5°	1254.0	1234.5	1160.3	976.5	853.2	779.5	708.2	634.6	550.2	488.1	437.4
15°	1219.8	1197.6	1119.1	932.7	819.4	733.0	640.0	549.6	450.8	379.7	333.1
17.5°	1246.3	1217.3	1133.2	929.7	777.0	659.3	541.8	435.7	328.5	256.6	223.4
20°	1336.1	1298.1	1191.3	928.9	725.6	571.8	422.9	302.9	216.5	174.1	156.7
22.5°	1477.4	1427.3	1274.8	935.6	672.5	480.0	305.4	205.8	162.6	140.5	130.3
25°	1648.2	1590.1	1395.0	959.3	626.0	390.6	221.9	162.6	137.2	121.0	112.4
27.5°	1810.6	1763.4	1546.9	993.5	589.9	318.4	180.2	137.8	117.3	106.6	99.6
30°	1972.7	1913.4	1702.7	1034.2	546.5	269.6	158.4	125.7	105.1	93.8	89.4
32.5°	2090.6	2041.3	1824.8	1063.6	500.1	237.7	141.6	115.0	98.2	86.6	80.1
35°	2229.3	2173.5	1929.5	1070.1	470.3	217.5	127.3	103.4	85.2	74.9	68.0
37.5°	2379.1	2309.6	2050.3	1055.8	447.0	207.7	116.6	98.2	79.5	69.0	61.7
40°	2544.8	2466.3	2166.3	1035.2	424.2	204.3	108.5	94.2	75.1	64.4	56.8
42.5°	2719.3	2626.8	2266.8	1013.6	409.7	192.8	107.6	90.2	71.7	60.2	52.7
45°	2865.9	2772.2	2370.0	1006.5	399.4	180.2	111.2	87.5	69.4	56.8	49.5
47.5°	2982.8	2894.1	2475.8	1022.4	393.5	168.7	101.3	91.0	68.2	53.9	46.8
50°	3122.3	3021.8	2624.7	1070.1	384.9	157.1	91.7	104.3	68.2	52.0	44.5
52.5°	3297.2	3197.8	2790.8	1143.9	367.7	141.2	82.4	104.5	68.8	49.5	41.5
55°	3517.3	3445.1	3028.1	1224.9	340.3	117.7	71.3	89.8	66.3	44.9	38.8
57.5°	3728.3	3669.4	3244.4	1280.3	303.5	91.9	62.1	72.4	60.6	39.4	34.6
59°	3786.0	3721.6	3323.7	1282.8	276.1	80.1	57.5	59.8	59.4	36.9	32.1
60°	3786.0	3717.6	3346.5	1269.3	256.1	73.6	54.5	53.3	61.9	35.2	30.6
62.5°	3717.4	3621.3	3272.3	1178.5	208.9	62.7	47.6	44.1	55.6	31.7	27.1
65°	3574.8	3434.9	3019.3	1014.3	186.3	57.5	41.1	36.1	38.6	27.9	23.7
67.5°	3336.9	3147.3	2654.5	819.4	177.3	56.0	35.5	30.6	29.2	23.9	20.8
70°	2918.0	2707.6	2211.7	644.2	169.5	55.4	29.8	25.8	23.5	20.1	17.6
72.5°	2123.8	1904.3	1570.2	503.7	164.9	56.6	23.9	21.6	19.3	15.7	13.6
75°	1214.8	1071.1	882.5	332.7	140.5	54.1	18.5	18.0	13.8	11.3	9.4
77.5°	627.6	608.6	528.8	127.8	67.3	23.7	12.2	10.5	8.2	6.9	5.7
80°	270.8	267.9	231.8	36.9	17.8	13.2	6.9	4.4	3.8	2.9	2.3
82.5°	93.6	93.6	82.4	12.4	8.0	6.5	0.8	0.0	0.0	0.0	0.0
85°	18.9	21.2	14.9	0.0	2.7	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4
2.5°	1258.0	1232.6	1231.0	1215.0	1195.1	1186.1	1180.8	1190.1	1201.4	1202.6	1219.6
5°	976.5	949.9	961.0	932.7	938.3	932.7	923.4	925.1	930.1	914.4	933.9
7.5°	685.8	665.6	678.4	670.9	680.9	684.9	679.3	670.9	646.1	643.2	660.2
10°	516.9	494.0	480.4	466.1	469.3	475.8	473.7	467.6	451.9	452.7	469.1
12.5°	415.4	389.8	362.7	327.7	319.1	323.9	319.1	315.5	300.4	301.7	316.1
15°	315.1	294.1	265.8	237.7	222.4	223.8	210.4	201.0	191.5	180.2	189.0
17.5°	212.7	199.9	191.5	183.1	164.9	160.7	143.7	125.4	118.3	113.1	116.8
20°	150.6	143.7	140.3	139.9	129.4	124.2	107.6	96.3	92.7	91.7	94.0
22.5°	125.9	120.8	116.0	113.3	108.0	102.0	89.4	83.7	81.2	79.9	81.6
25°	109.5	105.7	100.7	96.1	94.0	87.5	78.5	74.3	72.6	71.3	72.2
27.5°	97.3	94.0	88.1	85.2	83.5	77.8	70.1	66.7	65.2	64.8	64.6
30°	87.7	84.5	79.1	75.7	72.8	67.8	63.1	59.8	58.3	57.9	57.5
32.5°	78.0	75.5	72.0	68.6	65.4	60.8	56.8	54.1	51.8	51.4	51.2
35°	65.9	63.4	61.5	61.3	58.3	53.9	51.0	47.4	45.5	44.9	45.1
37.5°	58.5	55.2	51.0	52.4	51.6	48.5	44.5	40.9	39.0	38.6	38.6
40°	53.9	50.3	45.5	43.0	45.5	44.9	38.6	35.0	33.1	32.9	32.5
42.5°	49.5	45.9	40.5	36.3	37.5	39.4	33.4	30.0	28.1	27.7	27.1
45°	46.4	42.6	36.5	31.7	29.2	33.1	28.5	24.3	23.3	22.4	22.0
47.5°	43.4	39.9	32.9	27.5	23.3	23.9	22.9	19.9	18.7	17.8	17.6
50°	40.9	37.1	29.8	23.5	19.3	17.6	18.5	15.7	14.7	13.8	13.4
52.5°	38.0	34.4	26.4	20.3	16.2	13.8	14.1	12.4	11.3	10.7	10.5
55°	35.7	32.1	23.7	17.8	14.3	11.3	10.1	9.6	9.0	8.6	8.4
57.5°	32.5	29.2	21.0	15.1	12.2	9.2	7.8	7.8	7.6	7.1	6.9
59°	30.6	27.7	19.3	13.6	11.1	8.0	6.9	7.1	6.9	6.5	6.3
60°	29.2	26.4	18.0	12.6	10.5	7.3	6.3	6.7	6.5	6.1	5.9
62.5°	25.8	23.9	15.5	10.5	9.2	5.9	5.2	5.7	5.7	5.5	5.2
65°	22.7	20.6	13.2	8.8	8.6	5.0	4.2	5.0	5.2	4.8	4.4
67.5°	19.7	17.6	11.5	7.1	8.0	4.0	3.1	4.2	5.7	4.4	4.0
70°	16.8	14.7	9.0	5.7	8.4	2.7	2.5	3.8	6.7	4.8	3.8
72.5°	13.0	11.3	6.3	4.2	9.0	1.9	1.9	3.1	7.6	5.2	3.6
75°	9.0	7.3	3.8	2.5	7.3	1.3	1.3	2.9	7.1	4.8	3.4
77.5°	5.2	4.0	1.3	0.2	3.8	0.0	0.2	2.1	5.0	2.9	1.5
80°	1.9	0.8	0.0	0.0	2.3	0.0	0.0	0.0	0.4	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4
2.5°	1224.0	1252.4	1277.7	1316.1	1361.6	1414.1	1459.2	1507.7	1553.2	1572.1	1585.1
5°	937.9	972.9	1013.8	1070.3	1145.4	1237.9	1324.5	1422.5	1527.8	1580.4	1630.0
7.5°	663.1	698.8	749.5	809.5	900.4	1010.5	1123.8	1259.1	1401.7	1485.0	1567.0
10°	476.8	520.7	568.1	650.1	742.4	846.9	963.5	1114.5	1273.5	1365.8	1464.6
12.5°	324.5	374.4	446.2	538.1	646.5	748.9	850.2	994.3	1178.9	1270.4	1376.3
15°	194.7	222.4	298.3	404.7	537.7	665.2	776.2	920.7	1117.5	1229.5	1339.6
17.5°	120.0	132.8	174.1	261.4	401.1	562.4	714.5	895.7	1126.3	1262.6	1380.5
20°	95.7	100.7	113.9	154.4	265.8	449.1	645.1	890.7	1198.2	1366.1	1492.5
22.5°	83.1	87.9	96.7	112.2	167.2	336.3	579.2	895.3	1301.4	1521.1	1668.8
25°	73.2	77.4	85.8	98.6	122.5	236.8	508.7	915.9	1435.9	1713.4	1870.4
27.5°	65.4	69.0	76.8	88.5	105.1	165.3	428.8	940.8	1595.3	1910.2	2065.0
30°	58.3	61.5	68.4	79.3	91.3	127.1	341.1	957.8	1755.0	2065.0	2204.1
32.5°	52.2	54.5	60.8	70.1	79.3	101.3	259.3	955.1	1873.5	2193.8	2304.2
35°	45.9	48.2	53.7	61.7	69.0	83.7	203.9	904.1	1976.7	2327.5	2418.7
37.5°	39.0	42.0	47.2	54.3	59.4	73.6	164.9	842.7	2081.4	2480.2	2546.5
40°	33.1	36.1	40.7	48.5	51.6	69.9	126.7	767.8	2199.1	2650.9	2686.6
42.5°	27.5	30.2	35.0	41.7	48.7	60.2	93.8	682.2	2312.1	2796.9	2814.3
45°	22.2	25.0	30.0	36.7	52.0	49.9	72.6	590.5	2403.4	2918.4	2924.1
47.5°	17.6	20.1	25.4	34.6	48.5	39.9	51.8	518.6	2480.0	3013.2	2998.3
50°	13.6	15.7	21.2	39.6	42.4	32.9	39.2	494.6	2548.6	3071.9	3033.3
52.5°	10.7	12.6	17.4	37.1	32.9	27.3	32.9	517.1	2642.5	3120.6	3053.1
55°	8.6	10.5	13.6	21.2	22.4	23.1	28.1	538.1	2804.7	3234.7	3169.5
57.5°	7.1	9.0	11.1	14.9	17.0	19.5	25.0	540.4	2995.8	3424.4	3362.7
59°	6.5	8.2	10.1	13.2	14.9	17.8	23.5	527.8	3063.1	3493.4	3462.5
60°	6.1	7.8	9.4	12.2	13.8	16.8	22.7	515.8	3066.1	3490.9	3505.1
62.5°	5.2	6.9	8.4	10.3	11.7	14.3	20.3	471.6	2941.9	3376.5	3479.5
65°	4.6	6.1	7.6	8.8	10.1	12.8	18.5	390.8	2729.8	3192.1	3304.4
67.5°	4.2	5.2	6.9	7.8	9.0	11.3	16.4	278.6	2464.9	2966.6	3039.4
70°	3.8	5.0	6.3	7.1	8.2	9.9	14.1	160.1	2081.4	2636.5	2688.3
72.5°	3.6	4.8	5.7	6.7	7.3	8.8	12.8	75.3	1524.0	2112.0	2247.3
75°	3.1	4.4	5.2	6.3	6.9	8.0	10.9	36.1	1013.6	1528.4	1682.2
77.5°	1.9	3.6	4.8	5.7	6.1	6.9	9.0	20.8	646.9	1057.9	1246.1
80°	0.0	1.3	3.6	4.8	5.2	5.9	6.9	16.4	346.1	604.4	725.4
82.5°	0.0	0.0	2.5	3.8	3.6	4.0	5.2	10.3	156.1	395.0	445.1
85°	0.0	0.0	0.8	2.9	2.5	1.9	3.6	3.6	34.2	199.9	249.4
87.5°	0.0	0.0	0.0	0.2	1.3	0.8	1.5	0.4	0.2	14.9	60.4
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°	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4	1442.4
2.5°	1630.6	1646.1	1672.3	1684.7	1678.6	1652.8	1622.0	1590.5	1572.1	1579.4
5°	1730.9	1810.8	1856.9	1872.2	1846.6	1788.8	1713.0	1613.2	1577.7	1568.1
7.5°	1730.9	1881.3	1976.5	1993.3	1936.2	1822.7	1680.7	1524.9	1473.0	1454.2
10°	1670.0	1874.8	2007.5	2034.2	1954.5	1784.8	1594.5	1416.6	1355.1	1335.6
12.5°	1601.4	1821.9	1961.8	1998.5	1933.1	1747.0	1534.7	1343.4	1271.0	1254.0
15°	1559.3	1756.9	1872.7	1899.3	1871.6	1725.0	1520.4	1321.4	1236.2	1219.8
17.5°	1574.4	1706.5	1748.3	1763.8	1782.5	1717.2	1559.3	1369.6	1261.8	1246.3
20°	1631.2	1653.4	1631.8	1651.3	1701.7	1724.8	1651.8	1486.3	1356.8	1336.1
22.5°	1727.7	1626.0	1565.3	1573.1	1634.4	1749.7	1793.2	1652.8	1503.5	1477.4
25°	1840.1	1648.2	1528.4	1521.5	1584.4	1782.7	1922.4	1834.1	1676.9	1648.2
27.5°	1981.5	1698.1	1520.9	1513.9	1567.0	1813.5	2029.8	2013.2	1859.7	1810.6
30°	2090.6	1747.2	1543.3	1527.4	1584.4	1834.9	2116.0	2165.3	2005.2	1972.7
32.5°	2168.9	1805.1	1579.8	1556.7	1633.5	1871.8	2182.5	2304.6	2139.9	2090.6
35°	2228.4	1868.0	1638.8	1600.8	1701.1	1927.8	2244.8	2452.9	2283.2	2229.3
37.5°	2284.2	1956.4	1730.9	1685.5	1807.0	2018.0	2310.7	2621.1	2443.5	2379.1
40°	2362.1	2056.4	1872.9	1832.6	1985.1	2141.0	2392.9	2796.5	2625.8	2544.8
42.5°	2439.9	2163.8	2018.2	2029.2	2207.3	2290.3	2499.0	2982.0	2805.7	2719.3
45°	2511.0	2274.6	2225.3	2275.6	2413.5	2454.2	2604.6	3089.1	2949.4	2865.9
47.5°	2574.4	2413.0	2431.1	2565.1	2648.0	2602.5	2683.4	3181.7	3056.4	2982.8
50°	2648.0	2592.2	2702.3	2892.0	2918.0	2736.7	2755.2	3291.2	3181.4	3122.3
52.5°	2728.5	2781.0	3002.7	3169.9	3161.5	2882.5	2827.3	3413.9	3352.8	3297.2
55°	2820.0	2933.5	3267.2	3430.0	3422.9	3045.3	2946.9	3565.5	3567.6	3517.3
57.5°	2955.7	3064.8	3446.8	3640.4	3652.4	3233.3	3149.6	3735.5	3761.9	3728.3
59°	3053.1	3150.0	3517.9	3728.3	3777.0	3378.6	3297.7	3834.1	3816.6	3786.0
60°	3125.2	3204.1	3553.2	3774.3	3849.4	3477.2	3407.0	3892.0	3823.1	3786.0
62.5°	3303.7	3322.0	3616.7	3826.3	3932.7	3696.2	3714.5	3990.5	3778.0	3717.4
65°	3387.0	3396.5	3615.9	3733.2	3852.1	3866.8	3993.5	3993.5	3667.9	3574.8
67.5°	3352.2	3306.7	3436.5	3424.4	3543.1	3765.5	4098.4	3847.1	3457.3	3336.9
70°	3069.0	2893.8	2836.2	2841.4	2932.2	3275.2	3890.7	3416.2	3058.7	2918.0
72.5°	2553.6	2133.4	1991.0	2153.5	2177.3	2517.1	3315.7	2572.7	2255.7	2123.8
75°	2053.9	1503.9	1272.3	1443.9	1484.2	1842.0	2564.9	1602.3	1317.6	1214.8
77.5°	1475.6	1079.5	912.9	901.0	953.0	1168.2	1820.0	806.4	672.5	627.6
80°	838.3	710.5	765.0	721.8	748.1	730.4	864.7	353.7	289.7	270.8
82.5°	506.0	420.0	454.8	378.6	479.1	417.2	333.1	113.3	98.4	93.6
85°	329.1	229.5	119.6	80.1	165.1	266.6	74.5	30.8	23.7	18.9
87.5°	113.5	58.5	5.9	2.5	17.6	49.7	2.7	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

(END OF REPORT)