

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: P324605

Luminaire Tested: **GLEON-SA1C-827-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324605  
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-SA1C-827-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA 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: 4037 lumens  
Efficiency: N/A  
Efficacy: 68.4 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): 59  
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

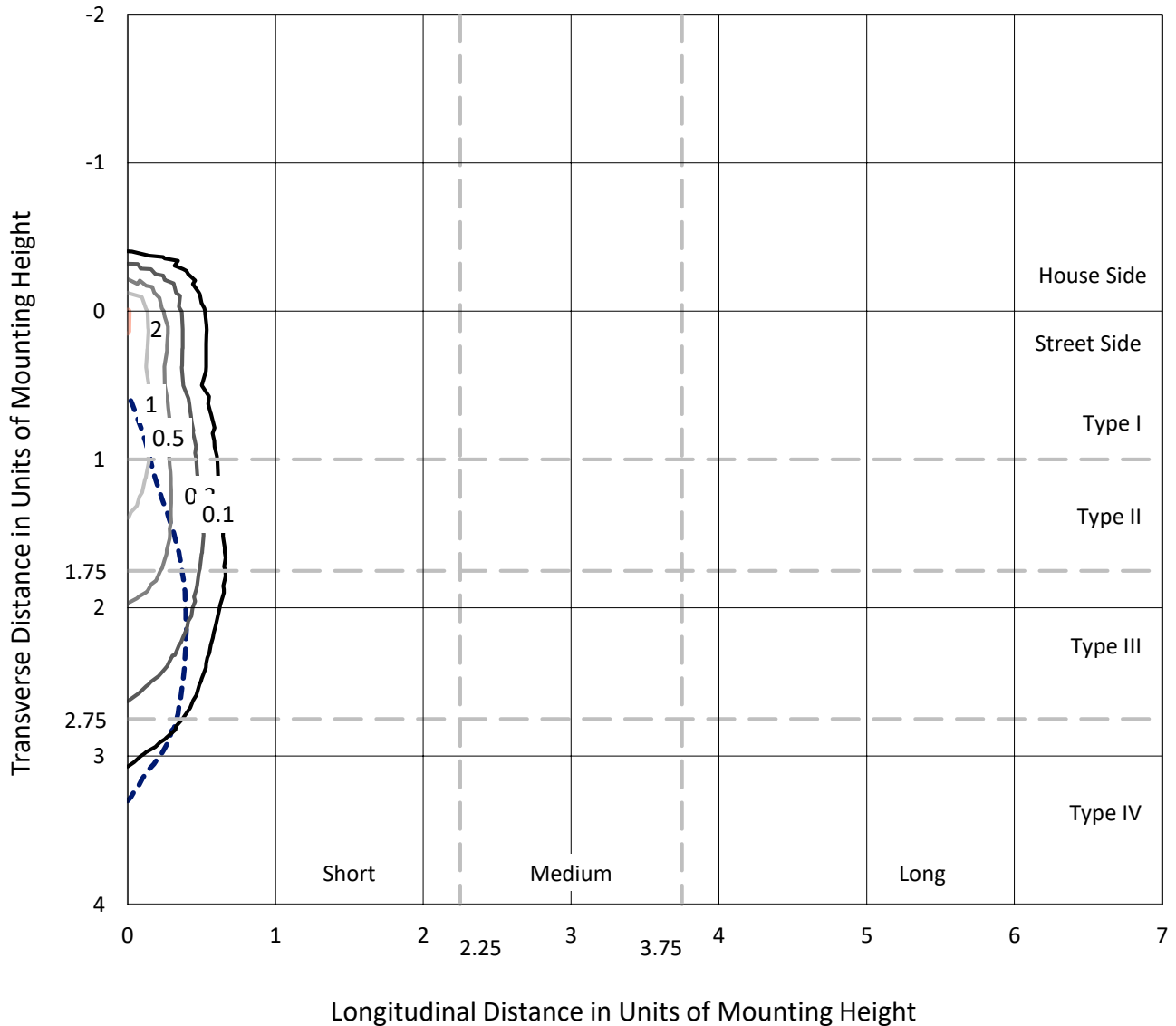




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### Iso-Footcandle Lines of Horizontal Illumination

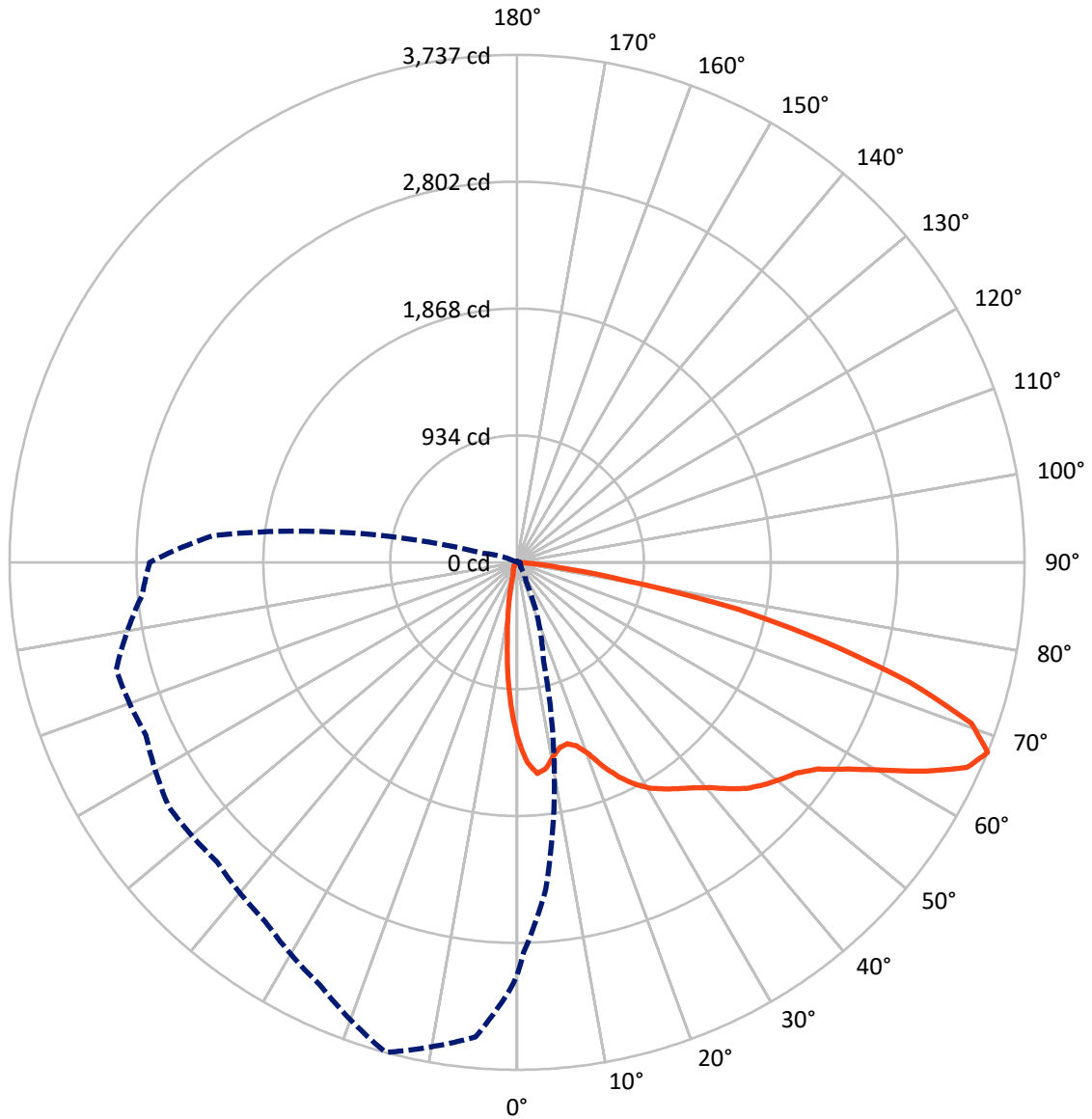
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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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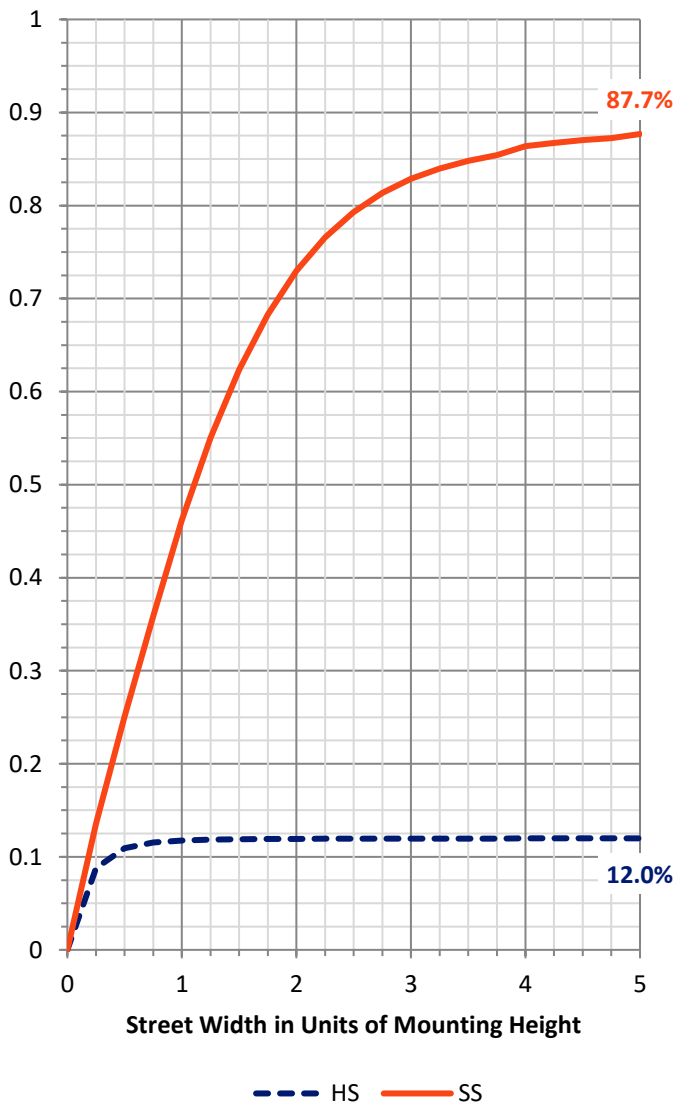
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	488.6	0.0	488.6
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	3548.4	0.0	3548.4
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	4037.0	0.0	4037.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.9	2.5
10°-20°	200.9	5.0
20°-30°	285.3	7.1
30°-40°	421.4	10.4
40°-50°	607.7	15.1
50°-60°	853.1	21.1
60°-70°	994.5	24.6
70°-80°	508.4	12.6
80°-90°	64.9	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°	4037.0	100.0
0°-180°	4037.0	100.0

**Coefficient of Utilization**

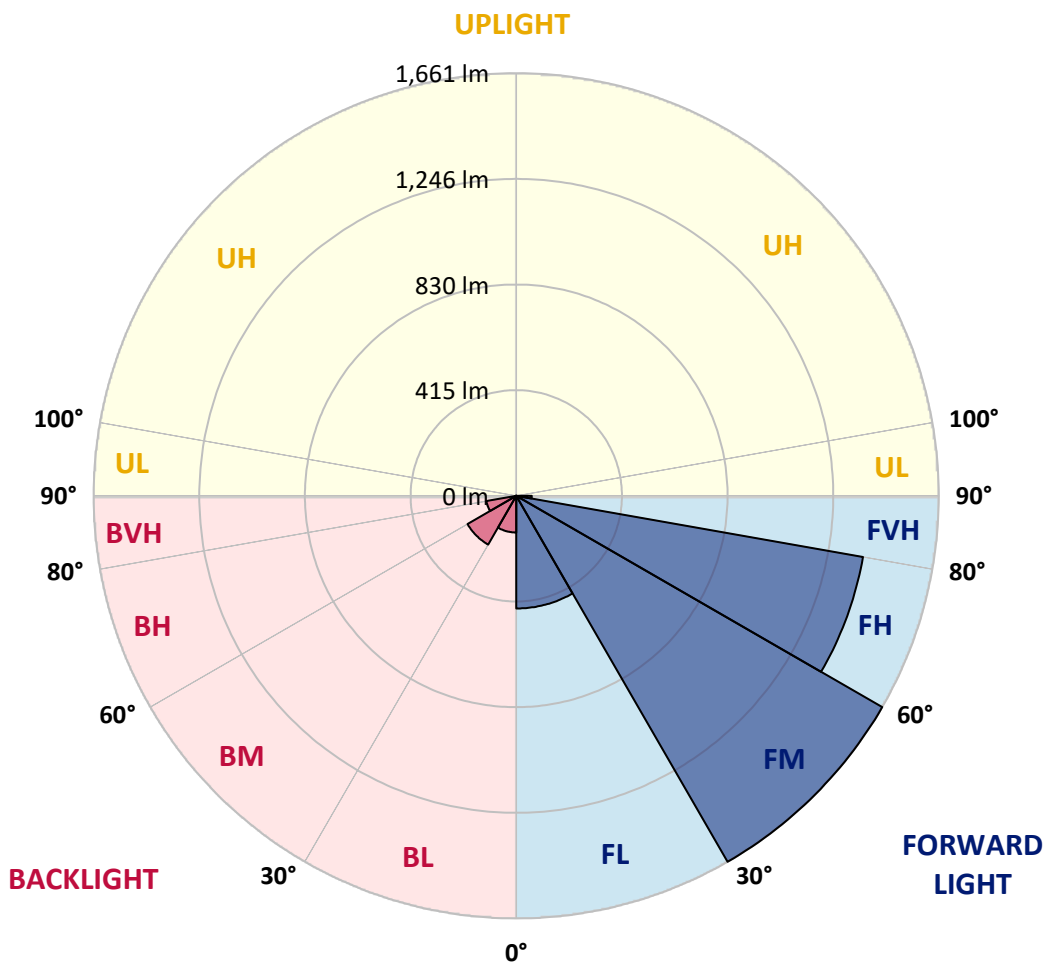


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	442.8	11.0			
FM (30°-60°)	1660.9	41.1			
FH (60°-80°)	1383.7	34.3			G1/1800
FVH (80°-90°)	61.0	1.5			G1/100
BL (0°-30°)	144.3	3.6	B1/500		
BM (30°-60°)	221.3	5.5	B1/1000		
BH (60°-80°)	119.1	2.9	B1/500		G1/500
BVH (80°-90°)	3.9	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°	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0
2.5°	1439.9	1428.8	1416.6	1376.6	1339.5	1297.1	1262.5	1238.4	1208.1	1168.9	1159.0
5°	1429.6	1417.7	1379.3	1290.4	1212.5	1136.8	1063.7	1020.9	967.7	913.8	900.4
7.5°	1325.8	1313.3	1257.9	1136.0	1031.2	921.8	827.0	768.3	708.2	658.9	632.7
10°	1217.7	1204.1	1141.8	993.9	864.8	766.0	696.3	640.3	583.5	530.7	488.6
12.5°	1143.3	1125.5	1057.8	890.3	777.8	710.7	645.7	578.5	501.7	445.0	398.8
15°	1112.1	1091.9	1020.3	850.3	747.0	668.2	583.5	501.1	411.0	346.2	303.7
17.5°	1136.2	1109.8	1033.1	847.6	708.4	601.1	494.0	397.2	299.5	233.9	203.7
20°	1218.1	1183.5	1086.1	846.9	661.5	521.4	385.6	276.2	197.4	158.7	142.9
22.5°	1347.0	1301.3	1162.2	853.0	613.2	437.6	278.5	187.6	148.2	128.1	118.8
25°	1502.7	1449.7	1271.8	874.6	570.7	356.1	202.3	148.2	125.1	110.4	102.5
27.5°	1650.7	1607.7	1410.3	905.8	537.8	290.3	164.3	125.7	106.9	97.2	90.8
30°	1798.5	1744.4	1552.4	942.9	498.2	245.8	144.4	114.6	95.8	85.5	81.5
32.5°	1906.0	1861.1	1663.7	969.6	455.9	216.7	129.1	104.8	89.5	79.0	73.1
35°	2032.4	1981.6	1759.1	975.6	428.8	198.3	116.1	94.3	77.6	68.3	62.0
37.5°	2169.0	2105.7	1869.3	962.6	407.6	189.3	106.3	89.5	72.5	62.9	56.2
40°	2320.1	2248.5	1975.1	943.8	386.7	186.3	98.9	85.9	68.5	58.7	51.8
42.5°	2479.2	2394.9	2066.7	924.1	373.5	175.8	98.1	82.2	65.4	54.9	48.0
45°	2612.9	2527.4	2160.8	917.6	364.1	164.3	101.4	79.8	63.3	51.8	45.1
47.5°	2719.4	2638.5	2257.2	932.2	358.8	153.8	92.4	83.0	62.2	49.2	42.6
50°	2846.6	2755.0	2392.9	975.6	350.9	143.2	83.6	95.1	62.2	47.4	40.5
52.5°	3006.1	2915.4	2544.4	1042.9	335.3	128.7	75.2	95.2	62.7	45.1	37.9
55°	3206.7	3140.9	2760.7	1116.7	310.2	107.3	65.0	81.9	60.4	40.9	35.4
57.5°	3399.1	3345.4	2957.9	1167.2	276.7	83.8	56.6	66.0	55.3	36.0	31.6
59°	3451.7	3393.0	3030.2	1169.5	251.7	73.1	52.4	54.5	54.1	33.7	29.3
60°	3451.7	3389.4	3051.0	1157.3	233.5	67.1	49.7	48.6	56.4	32.1	27.9
62.5°	3389.2	3301.6	2983.3	1074.5	190.5	57.2	43.4	40.2	50.7	28.9	24.7
65°	3259.1	3131.6	2752.7	924.7	169.8	52.4	37.5	32.9	35.2	25.4	21.6
67.5°	3042.2	2869.3	2420.1	747.0	161.6	51.1	32.3	27.9	26.6	21.8	18.9
70°	2660.3	2468.5	2016.4	587.3	154.5	50.5	27.2	23.5	21.4	18.4	16.1
72.5°	1936.2	1736.2	1431.5	459.2	150.3	51.6	21.8	19.7	17.6	14.3	12.4
75°	1107.5	976.5	804.6	303.3	128.1	49.3	16.8	16.4	12.6	10.3	8.6
77.5°	572.2	554.8	482.1	116.5	61.4	21.6	11.1	9.6	7.5	6.3	5.2
80°	246.9	244.2	211.3	33.7	16.3	12.0	6.3	4.0	3.4	2.7	2.1
82.5°	85.3	85.3	75.2	11.3	7.3	5.9	0.8	0.0	0.0	0.0	0.0
85°	17.2	19.3	13.6	0.0	2.5	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°	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0
2.5°	1146.9	1123.8	1122.3	1107.7	1089.6	1081.3	1076.6	1085.0	1095.3	1096.4	1111.9
5°	890.3	866.0	876.1	850.3	855.5	850.3	841.9	843.4	848.0	833.7	851.5
7.5°	625.2	606.8	618.5	611.6	620.8	624.4	619.3	611.6	589.1	586.4	601.9
10°	471.2	450.4	438.0	425.0	427.8	433.8	431.8	426.3	412.0	412.7	427.6
12.5°	378.7	355.3	330.7	298.7	290.9	295.3	290.9	287.6	273.9	275.0	288.2
15°	287.3	268.1	242.3	216.7	202.7	204.1	191.8	183.2	174.6	164.3	172.3
17.5°	193.9	182.3	174.6	167.0	150.3	146.5	131.0	114.4	107.9	103.1	106.5
20°	137.3	131.0	127.9	127.6	118.0	113.2	98.1	87.8	84.5	83.6	85.7
22.5°	114.8	110.2	105.8	103.3	98.5	92.9	81.5	76.3	74.0	72.9	74.4
25°	99.8	96.4	91.8	87.6	85.7	79.8	71.5	67.7	66.2	65.0	65.8
27.5°	88.7	85.7	80.3	77.6	76.1	71.0	63.9	60.8	59.5	59.1	58.9
30°	79.9	77.1	72.1	69.0	66.4	61.8	57.6	54.5	53.2	52.8	52.4
32.5°	71.1	68.9	65.6	62.5	59.7	55.5	51.8	49.3	47.2	46.9	46.7
35°	60.1	57.8	56.0	55.8	53.2	49.2	46.5	43.2	41.5	40.9	41.1
37.5°	53.4	50.3	46.5	47.8	47.0	44.2	40.5	37.3	35.6	35.2	35.2
40°	49.2	45.9	41.5	39.2	41.5	40.9	35.2	31.9	30.2	30.0	29.6
42.5°	45.1	41.9	36.9	33.1	34.2	36.0	30.4	27.3	25.6	25.2	24.7
45°	42.3	38.8	33.3	28.9	26.6	30.2	26.0	22.2	21.2	20.5	20.1
47.5°	39.6	36.3	30.0	25.1	21.2	21.8	20.8	18.2	17.0	16.3	16.1
50°	37.3	33.9	27.2	21.4	17.6	16.1	16.8	14.3	13.4	12.6	12.2
52.5°	34.6	31.4	24.1	18.6	14.7	12.6	12.8	11.3	10.3	9.8	9.6
55°	32.5	29.3	21.6	16.3	13.0	10.3	9.2	8.8	8.2	7.8	7.7
57.5°	29.6	26.6	19.1	13.8	11.1	8.4	7.1	7.1	6.9	6.5	6.3
59°	27.9	25.2	17.6	12.4	10.1	7.3	6.3	6.5	6.3	5.9	5.7
60°	26.6	24.1	16.4	11.5	9.6	6.7	5.7	6.1	5.9	5.5	5.4
62.5°	23.5	21.8	14.2	9.6	8.4	5.4	4.8	5.2	5.2	5.0	4.8
65°	20.7	18.7	12.0	8.0	7.8	4.6	3.8	4.6	4.8	4.4	4.0
67.5°	18.0	16.1	10.5	6.5	7.3	3.6	2.9	3.8	5.2	4.0	3.6
70°	15.3	13.4	8.2	5.2	7.7	2.5	2.3	3.4	6.1	4.4	3.4
72.5°	11.9	10.3	5.7	3.8	8.2	1.7	1.7	2.9	6.9	4.8	3.3
75°	8.2	6.7	3.4	2.3	6.7	1.1	1.1	2.7	6.5	4.4	3.1
77.5°	4.8	3.6	1.1	0.2	3.4	0.0	0.2	1.9	4.6	2.7	1.3
80°	1.7	0.8	0.0	0.0	2.1	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°	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0
2.5°	1116.0	1141.8	1164.9	1199.9	1241.4	1289.2	1330.3	1374.5	1416.0	1433.2	1445.1
5°	855.1	887.0	924.3	975.8	1044.2	1128.6	1207.6	1296.9	1392.9	1440.9	1486.0
7.5°	604.5	637.1	683.3	738.0	820.9	921.3	1024.5	1147.9	1277.9	1353.9	1428.6
10°	434.7	474.7	517.9	592.7	676.8	772.1	878.4	1016.1	1161.1	1245.2	1335.3
12.5°	295.9	341.4	406.8	490.6	589.4	682.8	775.1	906.5	1074.8	1158.2	1254.8
15°	177.5	202.7	272.0	368.9	490.2	606.5	707.6	839.4	1018.8	1120.9	1221.3
17.5°	109.4	121.1	158.7	238.3	365.7	512.7	651.4	816.6	1026.8	1151.1	1258.6
20°	87.2	91.8	103.8	140.8	242.3	409.5	588.1	812.1	1092.4	1245.4	1360.8
22.5°	75.7	80.1	88.2	102.3	152.4	306.6	528.0	816.3	1186.5	1386.8	1521.4
25°	66.7	70.6	78.2	89.9	111.7	215.9	463.8	835.0	1309.1	1562.1	1705.2
27.5°	59.7	62.9	70.0	80.7	95.8	150.7	390.9	857.8	1454.5	1741.5	1882.7
30°	53.2	56.0	62.3	72.3	83.2	115.9	311.0	873.3	1600.0	1882.7	2009.5
32.5°	47.6	49.7	55.5	63.9	72.3	92.4	236.4	870.8	1708.1	2000.1	2100.7
35°	41.9	44.0	49.0	56.2	62.9	76.3	185.9	824.3	1802.2	2121.9	2205.1
37.5°	35.6	38.3	43.0	49.5	54.1	67.1	150.3	768.3	1897.6	2261.2	2321.6
40°	30.2	32.9	37.1	44.2	47.0	63.7	115.5	700.0	2004.9	2416.8	2449.4
42.5°	25.1	27.5	31.9	38.1	44.4	54.9	85.5	621.9	2108.0	2550.0	2565.8
45°	20.3	22.8	27.3	33.5	47.4	45.5	66.2	538.4	2191.2	2660.7	2665.9
47.5°	16.1	18.4	23.1	31.6	44.2	36.3	47.2	472.8	2261.0	2747.1	2733.6
50°	12.4	14.3	19.3	36.1	38.6	30.0	35.8	451.0	2323.5	2800.7	2765.5
52.5°	9.8	11.5	15.9	33.9	30.0	24.9	30.0	471.4	2409.2	2845.1	2783.5
55°	7.8	9.6	12.4	19.3	20.5	21.0	25.6	490.6	2557.0	2949.1	2889.6
57.5°	6.5	8.2	10.1	13.6	15.5	17.8	22.8	492.7	2731.3	3122.0	3065.8
59°	5.9	7.5	9.2	12.0	13.6	16.3	21.4	481.2	2792.7	3184.9	3156.8
60°	5.5	7.1	8.6	11.1	12.6	15.3	20.7	470.3	2795.3	3182.6	3195.6
62.5°	4.8	6.3	7.7	9.4	10.7	13.0	18.6	429.9	2682.1	3078.4	3172.3
65°	4.2	5.5	6.9	8.0	9.2	11.7	16.8	356.3	2488.8	2910.3	3012.6
67.5°	3.8	4.8	6.3	7.1	8.2	10.3	14.9	254.0	2247.2	2704.7	2771.0
70°	3.4	4.6	5.7	6.5	7.5	9.0	12.8	145.9	1897.6	2403.6	2450.9
72.5°	3.3	4.4	5.2	6.1	6.7	8.0	11.7	68.7	1389.4	1925.5	2048.9
75°	2.9	4.0	4.8	5.7	6.3	7.3	9.9	32.9	924.1	1393.5	1533.6
77.5°	1.7	3.3	4.4	5.2	5.5	6.3	8.2	18.9	589.8	964.5	1136.0
80°	0.0	1.1	3.3	4.4	4.8	5.4	6.3	14.9	315.6	551.0	661.3
82.5°	0.0	0.0	2.3	3.4	3.3	3.6	4.8	9.4	142.3	360.1	405.8
85°	0.0	0.0	0.8	2.7	2.3	1.7	3.3	3.3	31.2	182.3	227.4
87.5°	0.0	0.0	0.0	0.2	1.1	0.8	1.3	0.4	0.2	13.6	55.1
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°	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0	1315.0
2.5°	1486.6	1500.8	1524.7	1535.9	1530.4	1506.9	1478.8	1450.1	1433.2	1439.9
5°	1578.0	1650.9	1693.0	1706.9	1683.6	1630.8	1561.8	1470.7	1438.4	1429.6
7.5°	1578.0	1715.1	1802.0	1817.3	1765.3	1661.8	1532.3	1390.2	1343.0	1325.8
10°	1522.6	1709.2	1830.3	1854.6	1781.9	1627.2	1453.7	1291.5	1235.5	1217.7
12.5°	1460.0	1661.0	1788.6	1822.1	1762.4	1592.7	1399.2	1224.8	1158.8	1143.3
15°	1421.6	1601.7	1707.3	1731.6	1706.3	1572.7	1386.2	1204.7	1127.0	1112.1
17.5°	1435.3	1555.8	1593.9	1608.0	1625.1	1565.6	1421.6	1248.7	1150.4	1136.2
20°	1487.2	1507.4	1487.7	1505.5	1551.4	1572.5	1505.9	1355.0	1237.0	1218.1
22.5°	1575.1	1482.4	1427.1	1434.2	1490.0	1595.2	1634.8	1506.9	1370.7	1347.0
25°	1677.7	1502.7	1393.5	1387.1	1444.5	1625.3	1752.6	1672.1	1528.9	1502.7
27.5°	1806.6	1548.2	1386.6	1380.3	1428.6	1653.4	1850.5	1835.4	1695.4	1650.7
30°	1906.0	1592.9	1407.0	1392.5	1444.5	1672.9	1929.2	1974.1	1828.2	1798.5
32.5°	1977.3	1645.7	1440.3	1419.3	1489.3	1706.5	1989.8	2101.1	1951.0	1906.0
35°	2031.7	1703.1	1494.1	1459.4	1550.9	1757.6	2046.6	2236.3	2081.6	2032.4
37.5°	2082.5	1783.6	1578.0	1536.7	1647.4	1839.8	2106.6	2389.7	2227.7	2169.0
40°	2153.5	1874.8	1707.5	1670.8	1809.8	1951.9	2181.6	2549.6	2393.9	2320.1
42.5°	2224.4	1972.8	1840.0	1850.0	2012.3	2088.1	2278.4	2718.6	2558.0	2479.2
45°	2289.3	2073.7	2028.8	2074.7	2200.3	2237.5	2374.6	2816.4	2689.0	2612.9
47.5°	2347.0	2200.0	2216.4	2338.6	2414.2	2372.7	2446.5	2900.7	2786.5	2719.4
50°	2414.2	2363.3	2463.7	2636.6	2660.3	2495.1	2511.9	3000.5	2900.5	2846.6
52.5°	2487.6	2535.4	2737.6	2890.0	2882.4	2628.0	2577.7	3112.4	3056.8	3006.1
55°	2571.0	2674.5	2978.7	3127.2	3120.7	2776.4	2686.7	3250.7	3252.6	3206.7
57.5°	2694.7	2794.2	3142.5	3319.0	3329.9	2947.8	2871.4	3405.6	3429.7	3399.1
59°	2783.5	2871.8	3207.3	3399.1	3443.5	3080.3	3006.5	3495.5	3479.6	3451.7
60°	2849.3	2921.2	3239.4	3441.0	3509.5	3170.2	3106.1	3548.3	3485.6	3451.7
62.5°	3012.0	3028.7	3297.4	3488.4	3585.4	3369.9	3386.5	3638.2	3444.4	3389.2
65°	3087.9	3096.6	3296.6	3403.5	3512.0	3525.3	3640.9	3640.9	3344.0	3259.1
67.5°	3056.2	3014.7	3133.1	3122.0	3230.2	3433.0	3736.5	3507.4	3152.0	3042.2
70°	2798.0	2638.3	2585.7	2590.5	2673.3	2986.0	3547.1	3114.5	2788.6	2660.3
72.5°	2328.1	1945.0	1815.2	1963.4	1985.0	2294.8	3022.9	2345.5	2056.5	1936.2
75°	1872.5	1371.1	1159.9	1316.4	1353.1	1679.4	2338.4	1460.8	1201.3	1107.5
77.5°	1345.3	984.2	832.3	821.4	868.9	1065.1	1659.3	735.2	613.2	572.2
80°	764.2	647.8	697.5	658.1	682.0	665.9	788.3	322.5	264.1	246.9
82.5°	461.3	382.9	414.6	345.2	436.8	380.4	303.7	103.3	89.7	85.3
85°	300.1	209.2	109.0	73.1	150.5	243.1	67.9	28.1	21.6	17.2
87.5°	103.5	53.4	5.4	2.3	16.1	45.3	2.5	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

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