

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: P324265

Luminaire Tested: **GLEON-SA1A-827-U-SLL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324265  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1A-827-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 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: 2660 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B0 - U0 - G1

Input Watts (W): 34  
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

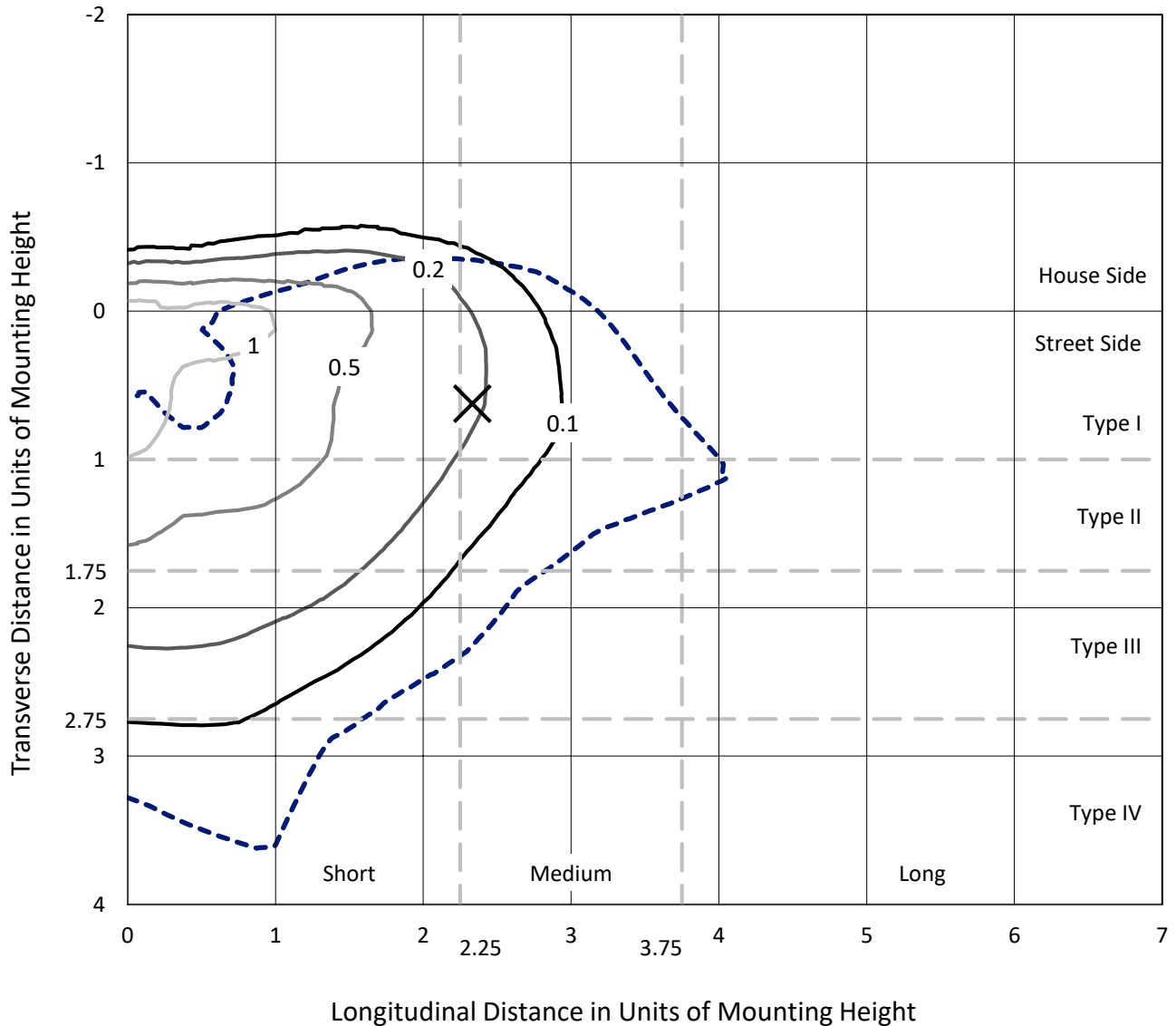




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### Iso-Footcandle Lines of Horizontal Illumination

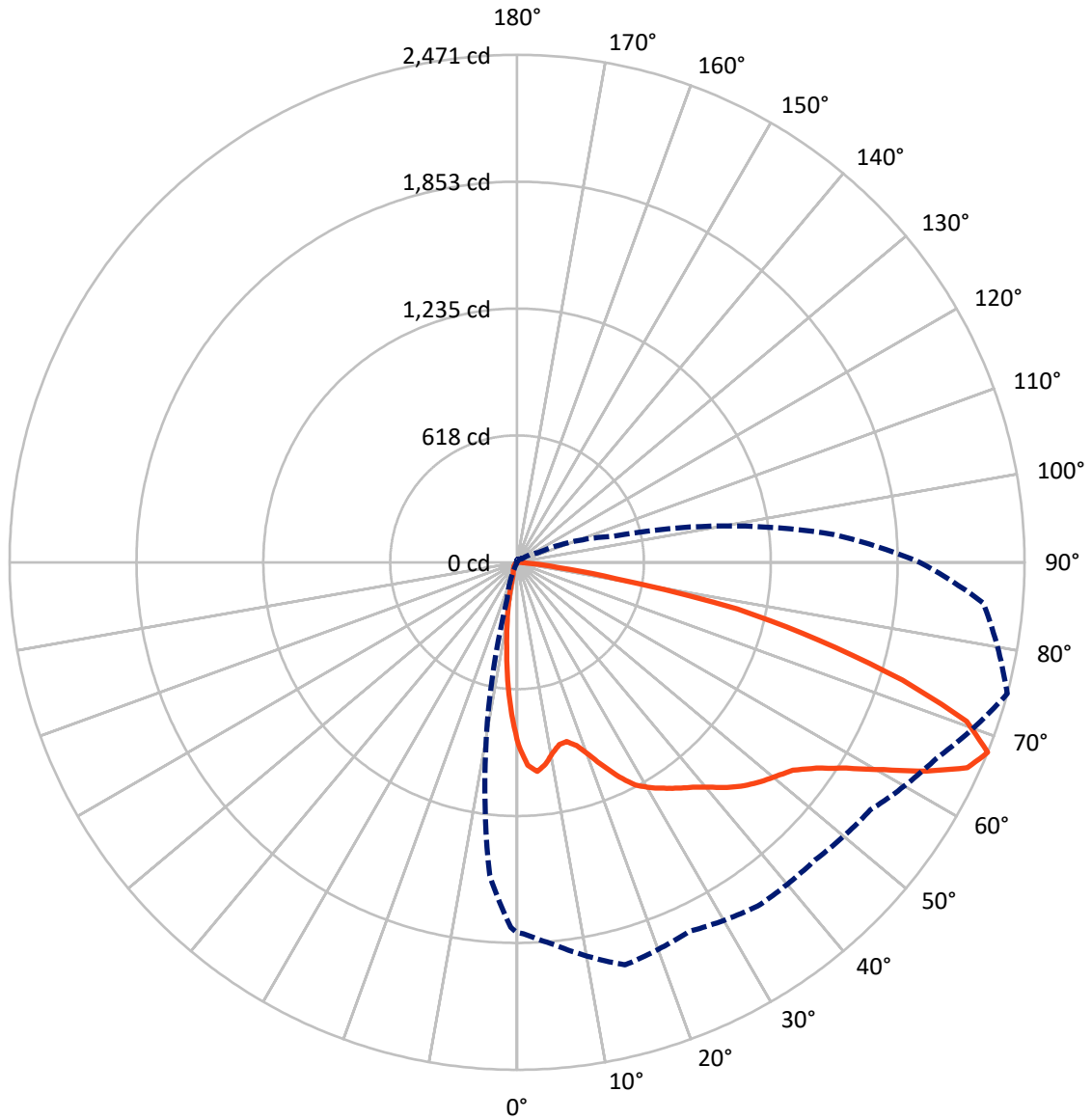
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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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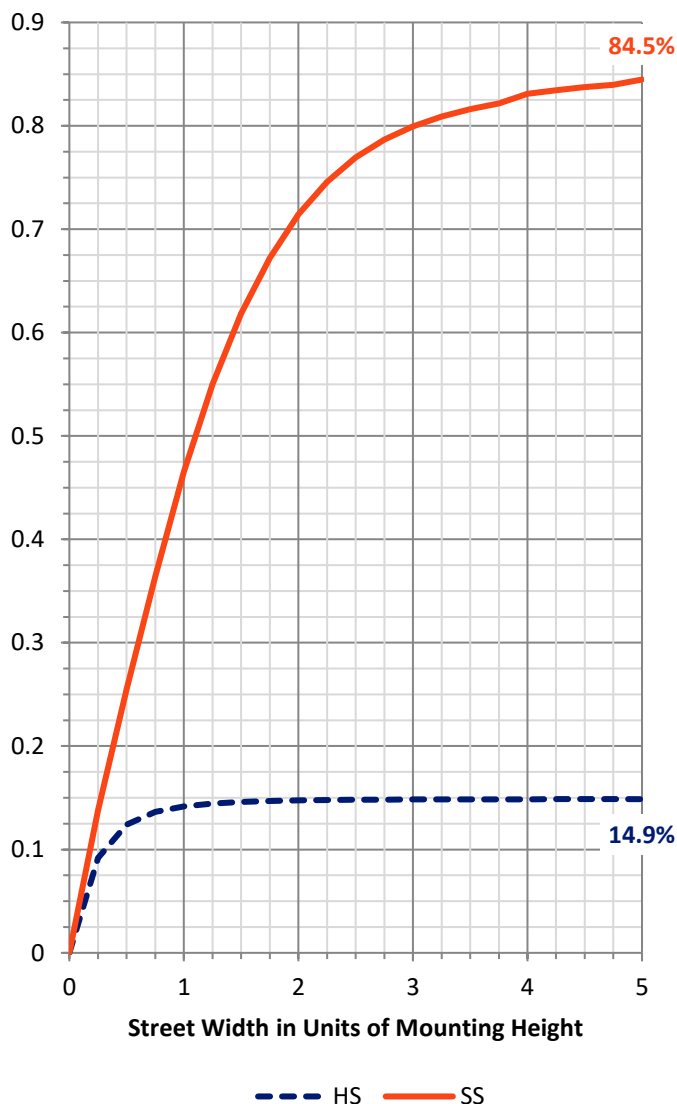
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	399.2	0.0	399.2
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	2260.8	0.0	2260.8
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	2660.0	0.0	2660.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.7	2.5
10°-20°	133.3	5.0
20°-30°	188.6	7.1
30°-40°	277.2	10.4
40°-50°	398.5	15.0
50°-60°	561.0	21.1
60°-70°	655.1	24.6
70°-80°	334.2	12.6
80°-90°	44.4	1.7
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°	2660.0	100.0
0°-180°	2660.0	100.0

**Coefficient of Utilization**

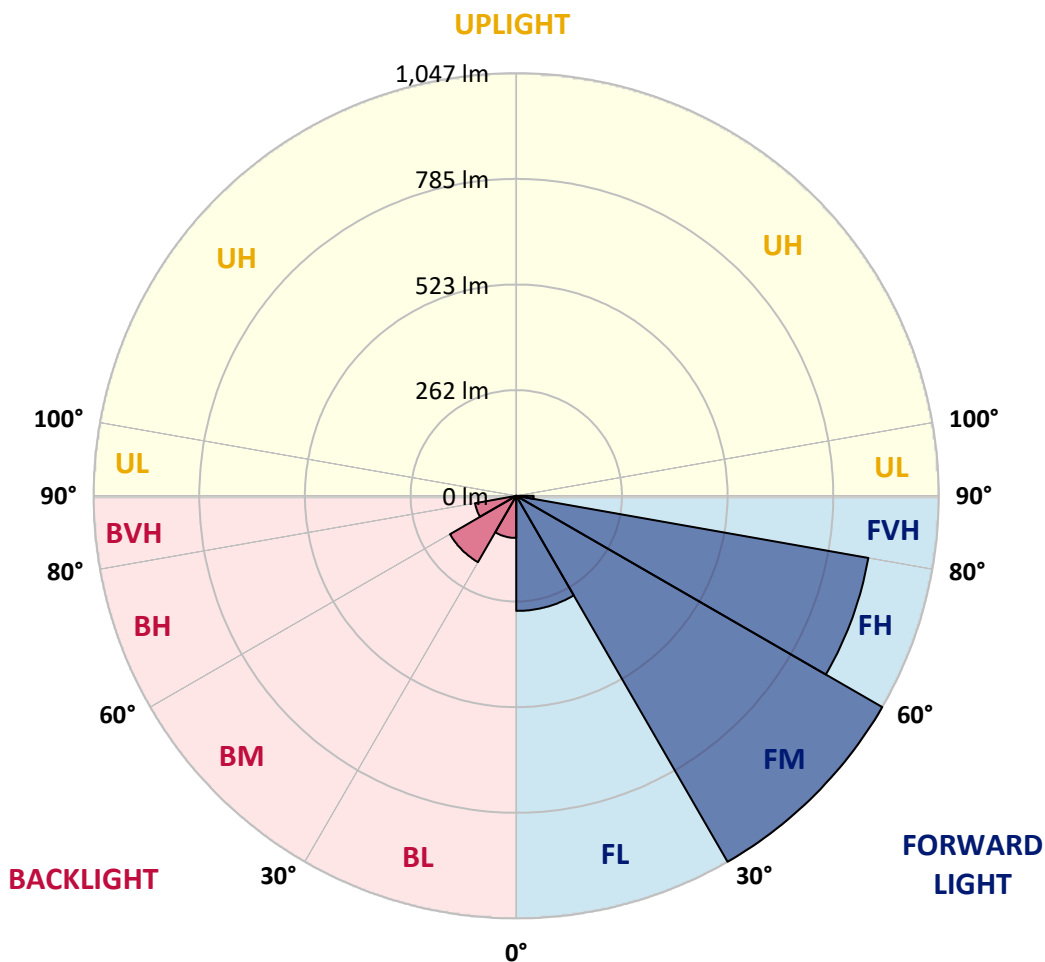


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	285.2	10.7			
FM (30°-60°)	1046.9	39.4			
FH (60°-80°)	885.7	33.3			G1/1800
FVH (80°-90°)	43.1	1.6			G1/100
BL (0°-30°)	104.4	3.9	B0/110		
BM (30°-60°)	189.7	7.1	B0/220		
BH (60°-80°)	103.7	3.9	B0/110		G0/110
BVH (80°-90°)	1.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	892.4	892.4	892.4	892.4	892.4	892.4	892.4	892.4	892.4	892.4	892.4
2.5°	967.4	968.9	976.7	994.8	1014.6	1016.1	1029.5	1015.7	1011.1	988.9	966.0
5°	974.7	980.5	1007.3	1060.6	1106.8	1121.7	1132.3	1105.3	1077.0	1022.8	965.0
7.5°	915.8	925.5	967.7	1067.8	1150.4	1187.0	1193.9	1151.7	1082.3	993.1	906.1
10°	840.5	851.6	902.5	1025.4	1139.0	1201.6	1211.2	1155.9	1056.1	944.9	842.5
12.5°	779.5	792.5	844.5	977.8	1099.5	1168.8	1187.7	1141.9	1033.4	910.8	799.0
15°	751.4	766.3	820.9	947.1	1055.8	1110.4	1126.0	1106.2	1020.8	905.4	788.9
17.5°	767.5	783.6	840.1	949.7	1014.7	1038.0	1050.6	1058.7	1020.8	938.0	818.4
20°	833.7	851.1	910.8	976.6	980.7	972.0	985.5	1013.9	1032.6	1000.0	889.2
22.5°	925.1	945.6	1013.0	1022.6	964.1	931.2	933.0	977.4	1054.2	1078.6	987.5
25°	1036.7	1061.6	1130.2	1091.1	971.0	906.9	906.2	947.4	1075.2	1157.4	1097.0
27.5°	1147.4	1174.9	1235.1	1174.8	999.6	902.5	901.2	938.4	1095.8	1227.4	1216.6
30°	1240.3	1267.0	1318.9	1235.4	1030.5	912.8	906.7	948.1	1108.0	1272.9	1303.8
32.5°	1315.9	1337.3	1379.3	1277.1	1063.5	932.8	919.7	974.0	1128.8	1311.4	1383.9
35°	1399.1	1421.6	1438.4	1316.8	1100.5	961.7	942.9	1015.2	1160.8	1350.4	1471.8
37.5°	1493.9	1516.4	1514.4	1353.1	1147.5	1009.4	997.5	1080.5	1210.6	1389.1	1569.8
40°	1586.8	1609.7	1593.4	1392.8	1202.7	1088.2	1079.4	1178.5	1277.2	1438.6	1684.7
42.5°	1673.8	1698.6	1663.5	1430.3	1268.5	1187.5	1202.6	1304.8	1360.6	1499.6	1783.8
45°	1743.8	1769.1	1722.4	1466.9	1337.8	1308.0	1353.4	1444.7	1460.9	1551.2	1850.7
47.5°	1794.7	1818.7	1763.2	1503.4	1426.5	1455.3	1534.5	1591.3	1551.5	1595.9	1898.2
50°	1827.2	1845.9	1775.2	1549.1	1543.0	1627.1	1723.2	1750.9	1636.8	1636.2	1955.9
52.5°	1847.9	1856.3	1784.0	1596.9	1664.4	1814.3	1907.9	1916.6	1724.7	1680.6	2033.6
55°	1919.1	1925.9	1846.5	1654.7	1764.9	1978.2	2075.0	2066.9	1824.1	1767.4	2125.4
57.5°	2040.6	2047.7	1975.7	1737.9	1846.1	2079.5	2196.1	2210.5	1940.6	1889.4	2223.7
60°	2101.6	2114.9	2089.2	1843.2	1924.9	2144.3	2278.6	2324.8	2086.3	2050.1	2318.9
62.5°	2046.2	2065.6	2102.9	1960.0	2003.1	2179.9	2304.3	2365.8	2235.5	2237.5	2377.6
65°	1935.9	1951.4	2014.6	2024.1	2048.5	2175.5	2240.8	2308.6	2326.9	2409.6	2374.5
67.5°	1802.5	1808.3	1862.0	2029.1	1982.7	2043.0	2050.0	2100.2	2254.7	2470.6	2279.1
70°	1610.6	1613.8	1660.7	1860.4	1703.9	1717.1	1706.6	1716.9	1938.4	2322.1	2038.3
72.5°	1296.2	1304.2	1370.8	1545.0	1241.3	1203.1	1285.3	1280.7	1492.8	1961.8	1513.9
75°	954.4	968.1	1068.8	1244.4	871.2	788.1	848.0	864.0	1061.2	1517.5	946.7
77.5°	668.2	678.4	776.0	914.8	630.5	563.5	541.8	560.9	700.5	1097.8	476.9
80°	385.0	388.7	451.0	528.2	424.9	486.1	440.4	453.5	419.7	488.4	205.1
82.5°	251.9	252.5	276.8	314.4	264.6	307.5	227.6	291.0	258.2	196.2	66.8
85°	136.1	136.8	160.5	223.2	149.8	84.7	49.8	102.2	159.7	45.0	18.3
87.5°	15.0	13.7	48.4	81.1	41.6	7.7	2.6	11.5	25.6	2.9	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°	892.4	892.4	892.4	892.4	892.4	892.4	892.4	892.4	892.4	892.4	892.4
2.5°	954.3	943.8	917.7	890.1	867.9	847.1	826.2	800.7	780.9	776.8	770.3
5°	933.8	900.7	846.0	791.1	746.8	691.0	655.6	628.0	601.1	599.4	594.0
7.5°	862.5	818.9	741.9	665.9	603.7	550.5	496.8	460.9	432.7	422.8	416.8
10°	794.0	745.0	648.8	562.1	506.5	459.5	421.7	384.2	350.2	326.7	316.2
12.5°	746.1	691.9	585.9	511.2	471.4	426.8	380.7	333.8	294.6	266.4	249.1
15°	727.6	669.7	564.9	491.1	441.9	385.5	326.5	272.9	229.5	203.9	188.4
17.5°	749.6	682.3	563.3	466.5	397.8	327.6	262.5	199.2	158.3	138.9	128.9
20°	805.6	722.4	562.6	436.4	345.4	259.1	177.8	131.0	106.2	95.4	90.7
22.5°	884.7	773.6	567.7	406.6	290.8	185.1	122.7	96.3	83.5	77.7	75.1
25°	986.5	845.4	581.9	379.7	239.5	138.1	95.6	80.6	71.7	67.2	65.3
27.5°	1095.0	928.0	604.1	356.2	197.8	110.1	81.9	69.1	62.6	59.5	57.7
30°	1184.5	1023.8	626.5	330.1	167.6	96.0	75.0	63.0	55.6	53.6	51.9
32.5°	1262.7	1096.3	642.4	306.6	147.8	85.3	67.8	56.3	51.3	47.4	45.6
35°	1343.7	1156.6	641.9	290.1	134.2	77.2	61.7	50.4	44.4	39.8	38.4
37.5°	1431.4	1224.8	630.9	276.0	128.3	70.8	58.3	47.3	41.2	36.7	34.9
40°	1534.1	1296.4	619.7	262.7	126.6	65.6	55.9	44.7	38.3	33.9	32.1
42.5°	1634.2	1360.9	609.9	252.9	119.6	65.5	53.8	42.8	36.0	31.8	29.7
45°	1714.2	1421.0	608.0	247.0	112.1	67.8	52.7	41.6	34.3	30.0	28.1
47.5°	1780.7	1486.3	620.1	242.8	105.1	61.9	55.4	40.7	32.6	28.5	26.3
50°	1859.9	1566.4	648.6	236.0	97.7	55.7	63.5	41.0	31.2	27.0	24.7
52.5°	1970.3	1677.3	690.4	224.5	87.4	50.0	62.5	41.2	29.7	25.3	23.1
55°	2094.0	1815.8	735.4	205.5	73.2	42.6	53.6	39.4	26.8	23.6	21.4
57.5°	2224.0	1941.4	762.1	182.8	58.2	36.8	42.8	35.9	23.7	21.2	19.8
60°	2244.4	1989.2	749.9	155.0	46.2	32.0	31.8	36.5	21.2	18.6	17.6
62.5°	2193.7	1929.2	690.8	130.2	38.7	28.1	26.1	31.9	19.2	16.6	15.6
65°	2096.0	1767.0	595.0	117.3	35.9	24.1	21.7	22.4	16.8	14.5	13.6
67.5°	1960.2	1550.5	488.5	110.0	35.5	20.7	18.5	17.0	14.5	12.6	11.8
70°	1682.5	1291.7	389.7	106.0	34.5	17.4	15.6	13.9	12.1	10.7	10.1
72.5°	1238.3	915.3	303.2	101.6	34.8	13.9	13.6	11.5	9.7	8.3	8.1
75°	715.5	522.9	198.8	82.3	33.1	10.7	11.3	8.1	6.8	5.8	5.8
77.5°	381.3	318.9	75.7	34.3	12.1	6.8	6.4	4.8	4.3	3.5	3.4
80°	166.2	140.4	22.8	9.6	6.7	3.7	2.4	2.1	1.9	1.5	1.4
82.5°	58.8	50.8	7.4	4.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.4	9.6	0.0	1.1	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°	892.4	892.4	892.4	892.4	892.4	892.4	892.4	892.4	892.4	892.4	892.4
2.5°	756.9	754.2	737.8	738.4	741.3	745.5	735.6	740.2	752.4	764.1	768.5
5°	585.3	585.9	576.0	582.2	587.7	591.5	575.6	575.9	585.6	598.8	605.7
7.5°	412.4	411.4	411.9	426.7	437.1	429.6	435.5	414.9	416.2	425.7	418.6
10°	306.6	292.7	284.9	296.0	307.5	303.3	293.1	286.4	291.1	301.5	300.8
12.5°	240.9	221.0	209.3	201.4	210.8	203.0	202.7	196.9	190.6	191.8	208.5
15°	181.2	166.7	152.8	140.1	139.9	137.2	123.7	108.6	107.4	108.1	116.8
17.5°	124.6	119.7	114.0	103.1	100.2	89.1	76.0	69.9	66.9	68.3	71.2
20°	87.6	85.7	86.3	80.4	76.2	65.6	58.0	55.6	55.1	56.5	57.8
22.5°	72.6	69.2	68.8	66.2	62.0	54.3	50.2	48.8	48.1	49.4	50.4
25°	63.5	60.1	58.7	57.1	52.7	47.4	44.9	43.6	43.0	43.7	44.4
27.5°	55.9	52.8	51.5	50.4	46.1	42.3	40.3	39.2	38.7	38.9	39.6
30°	50.3	47.5	45.9	44.5	40.8	38.2	36.4	35.3	34.8	34.8	35.4
32.5°	44.4	42.8	41.3	39.6	36.2	34.4	32.6	31.4	30.9	31.0	31.5
35°	36.9	36.4	36.8	35.2	32.3	30.7	29.0	27.6	27.2	27.3	27.8
37.5°	32.8	30.5	31.9	31.0	29.4	27.3	25.1	23.8	23.2	23.6	23.8
40°	30.1	27.3	26.3	27.2	27.0	23.7	21.7	20.4	19.9	20.0	20.3
42.5°	27.8	24.6	22.3	22.2	23.7	20.7	18.5	17.4	16.8	16.8	17.0
45°	25.7	22.2	19.4	17.3	19.9	17.5	15.5	14.5	13.7	13.7	13.9
47.5°	24.1	20.2	16.9	14.1	15.0	14.4	12.7	11.7	11.0	11.0	11.1
50°	22.6	18.1	14.6	11.8	11.2	11.8	10.3	9.2	8.7	8.6	8.8
52.5°	20.9	16.1	12.5	10.1	8.8	8.9	8.1	7.3	6.7	6.7	6.9
55°	19.3	14.5	10.8	8.6	7.3	6.7	6.4	5.9	5.4	5.4	5.7
57.5°	17.6	12.7	9.2	7.1	5.8	5.3	5.3	4.9	4.5	4.5	4.8
60°	16.1	11.0	7.6	5.8	4.5	4.4	4.5	4.2	3.9	3.9	4.2
62.5°	14.4	9.3	6.2	4.8	3.7	3.5	3.9	3.7	3.4	3.4	3.7
65°	12.2	7.9	4.9	3.7	2.8	2.8	3.3	3.0	2.8	2.8	3.0
67.5°	10.3	6.7	3.8	2.6	2.0	2.1	2.8	2.5	2.4	2.4	2.6
70°	8.6	5.2	2.6	1.6	1.1	1.6	2.1	2.1	2.1	2.1	2.4
72.5°	6.4	3.5	1.5	0.6	0.5	1.1	1.8	2.0	1.9	1.9	2.3
75°	4.2	2.0	0.5	0.0	0.0	0.6	1.4	1.6	1.6	1.5	1.9
77.5°	2.4	0.6	0.0	0.0	0.0	0.0	0.9	0.8	0.6	0.5	0.9
80°	0.6	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°	892.4	892.4	892.4	892.4	892.4	892.4	892.4	892.4	892.4	892.4
2.5°	786.3	801.2	822.1	844.2	878.4	905.5	932.1	954.9	963.7	967.4
5°	622.4	644.1	674.8	714.1	775.7	831.1	887.3	943.9	968.5	974.7
7.5°	446.6	474.4	513.4	562.6	634.8	706.6	785.2	868.2	906.2	915.8
10°	330.5	364.5	409.1	461.1	530.0	603.8	689.4	784.3	827.7	840.5
12.5°	234.5	280.5	340.2	403.3	463.1	529.0	615.5	720.1	765.7	779.5
15°	137.7	182.2	252.9	337.4	413.9	480.7	568.7	687.2	737.5	751.4
17.5°	79.0	101.2	154.6	248.9	352.7	445.2	553.9	695.4	754.7	767.5
20°	60.4	67.4	89.1	160.3	281.1	410.3	553.9	741.8	814.8	833.7
22.5°	52.8	58.0	66.8	95.6	206.9	372.9	560.4	808.8	904.2	925.1
25°	46.9	51.5	59.1	72.0	141.1	328.4	575.6	891.1	1009.6	1036.7
27.5°	42.0	46.4	53.2	63.0	96.5	274.7	596.1	987.6	1125.8	1147.4
30°	37.6	41.7	47.9	54.8	74.5	213.8	613.7	1078.6	1217.0	1240.3
32.5°	33.4	37.2	42.7	47.9	61.0	158.1	615.5	1150.7	1292.7	1315.9
35°	29.5	32.9	37.9	42.0	50.5	124.9	586.2	1213.2	1368.4	1399.1
37.5°	25.7	29.0	33.4	36.4	44.5	101.8	541.3	1282.9	1465.6	1493.9
40°	22.2	25.1	29.6	31.6	42.1	78.3	492.6	1356.0	1560.9	1586.8
42.5°	18.9	21.7	26.1	30.0	36.9	58.5	439.9	1424.5	1646.5	1673.8
45°	15.8	18.6	23.1	31.8	30.6	43.7	383.6	1470.0	1714.2	1743.8
47.5°	12.7	16.0	22.1	30.2	24.4	32.1	339.0	1513.1	1765.5	1794.7
50°	10.2	13.5	24.8	27.0	20.0	24.6	320.3	1551.7	1799.1	1827.2
52.5°	8.3	11.3	23.4	20.7	16.8	20.3	330.4	1614.2	1830.3	1847.9
55°	6.9	8.9	14.1	14.4	14.2	17.3	342.9	1703.9	1910.8	1919.1
57.5°	6.0	7.2	9.8	11.1	12.0	15.4	343.1	1832.7	2035.4	2040.6
60°	5.2	6.3	8.2	8.9	10.3	13.7	330.6	1877.6	2084.4	2101.6
62.5°	4.5	5.5	6.8	7.4	8.7	12.3	301.4	1812.5	2017.1	2046.2
65°	4.0	5.0	5.7	6.3	7.7	11.1	253.3	1682.2	1905.5	1935.9
67.5°	3.5	4.4	5.0	5.7	6.9	9.8	186.5	1530.9	1777.3	1802.5
70°	3.2	3.9	4.5	5.0	6.0	8.3	113.2	1299.0	1600.2	1610.6
72.5°	3.0	3.5	4.2	4.5	5.3	7.3	57.3	954.6	1279.2	1296.2
75°	2.6	3.2	3.8	4.0	4.7	6.3	23.3	627.0	927.0	954.4
77.5°	2.1	2.9	3.4	3.7	4.0	5.2	11.8	400.7	650.6	668.2
80°	0.8	2.1	2.9	3.0	3.4	3.8	7.8	219.4	377.4	385.0
82.5°	0.0	1.4	2.3	2.1	2.4	2.9	5.0	104.3	249.1	251.9
85°	0.0	0.6	1.8	1.4	1.0	2.0	1.8	22.8	130.7	136.1
87.5°	0.0	0.0	0.1	0.6	0.5	0.8	0.3	0.1	11.8	15.0
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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