

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: P269013

Luminaire Tested: **GLEON-AF-01-LED-E1-SLR-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269013
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-SLR-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4759.2 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

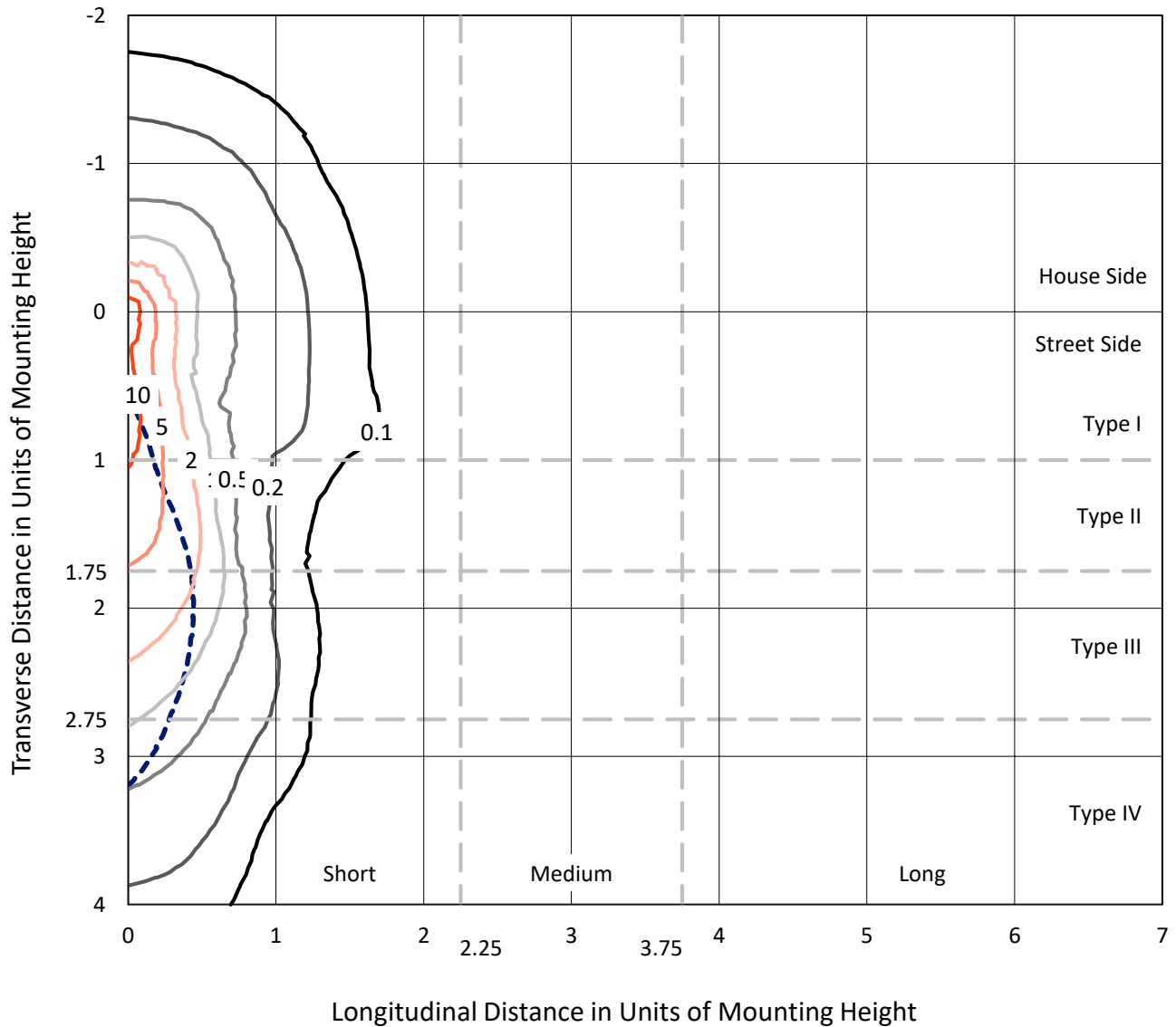
Input Watts (W): 59
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

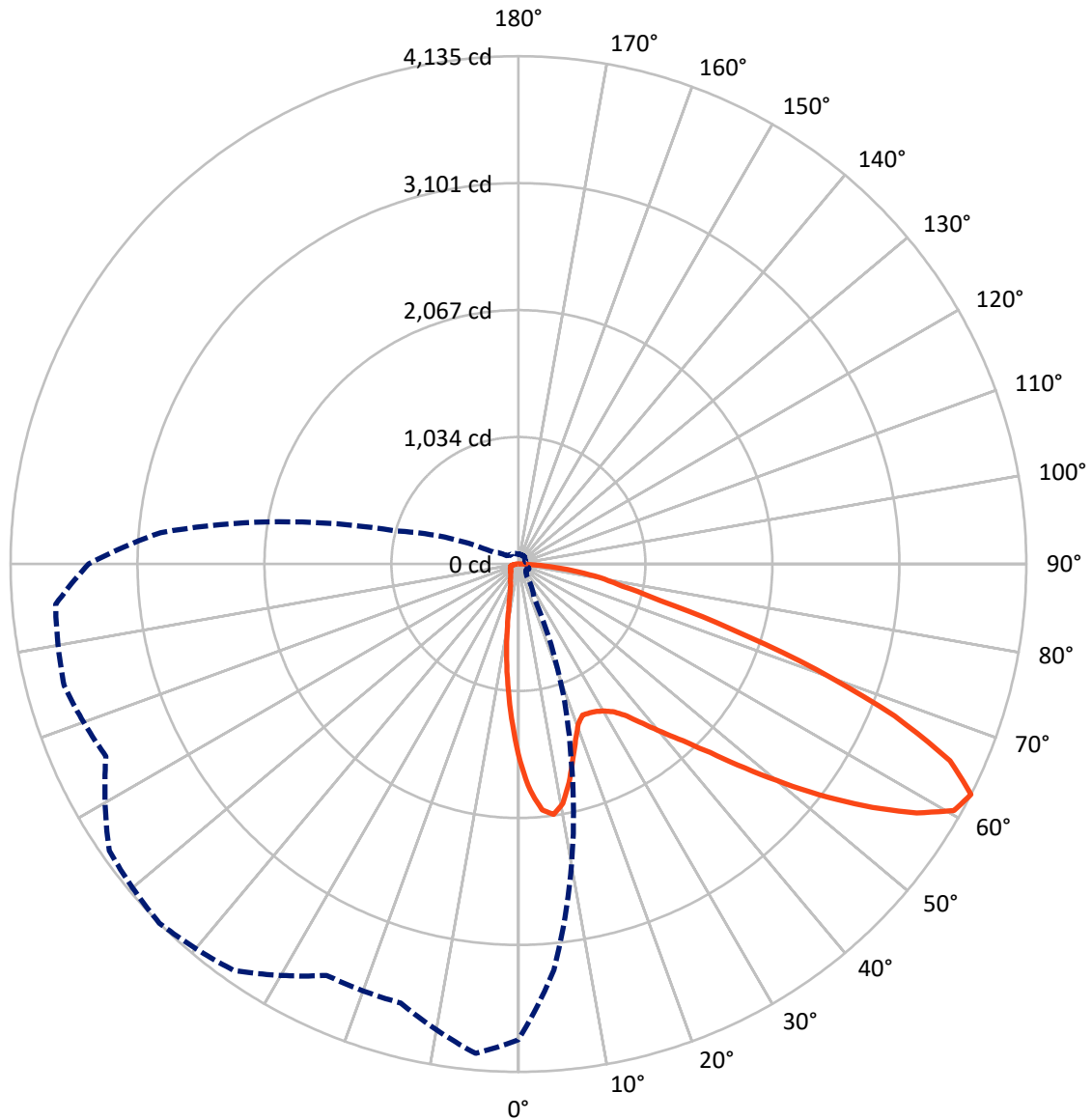
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	787.6	0.0	787.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	3971.6	0.0	3971.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	4759.2	0.0	4759.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.0	2.5
10°-20°	214.6	4.5
20°-30°	312.9	6.6
30°-40°	482.0	10.1
40°-50°	709.3	14.9
50°-60°	1040.4	21.9
60°-70°	1163.1	24.4
70°-80°	569.4	12.0
80°-90°	150.3	3.2
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°	4759.2	100.0
0°-180°	4759.2	100.0



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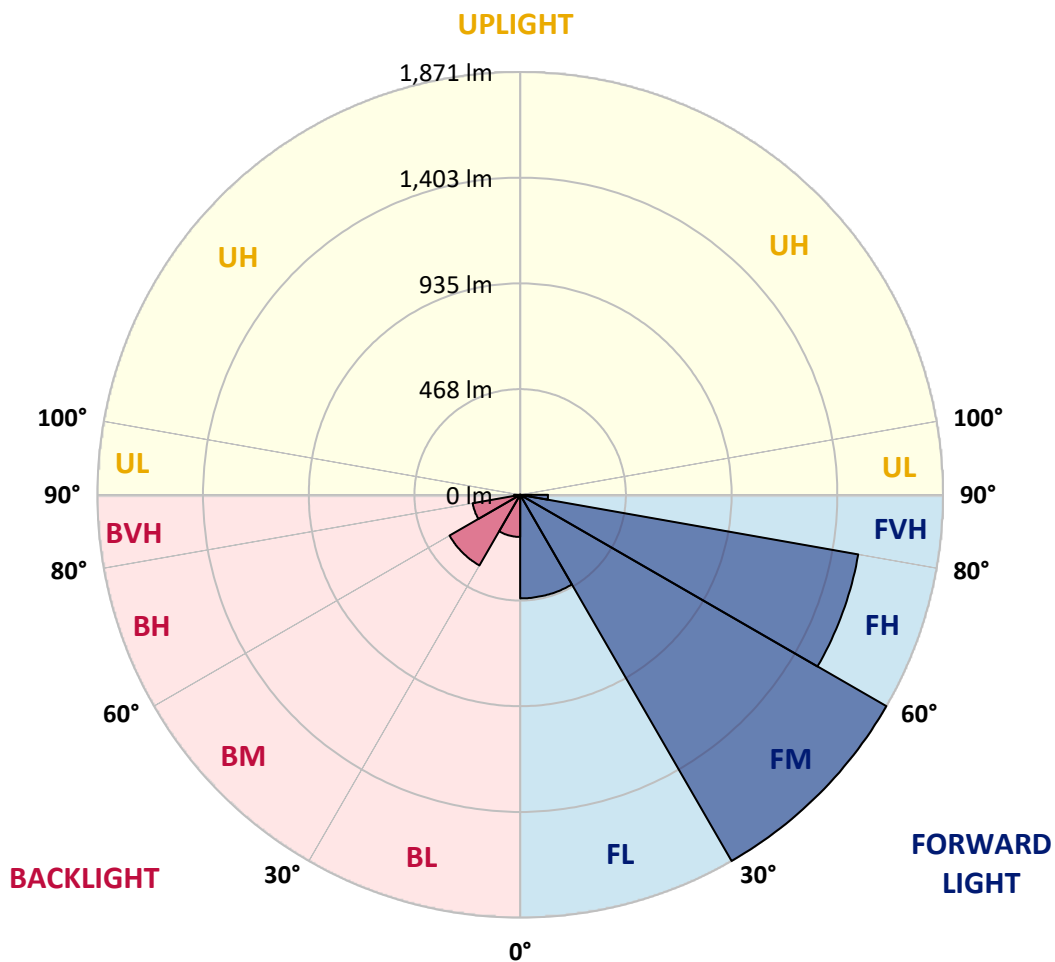
CATALOG NUMBER: GLEON-AF-01-LED-E1-SLR-7027

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	458.3	9.6			
FM	(30°-60°)	1870.9	39.3			
FH	(60°-80°)	1519.0	31.9			G1/1800
FVH	(80°-90°)	123.5	2.6			G2/225
BL	(0°-30°)	186.3	3.9	B1/500		
BM	(30°-60°)	360.9	7.6	B1/1000		
BH	(60°-80°)	213.5	4.5	B1/500		G1/500
BVH	(80°-90°)	26.9	0.6			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0
2.5°	1670.7	1636.7	1580.2	1521.3	1485.4	1443.7	1410.9	1382.1	1324.6	1313.3	1323.6
5°	1571.0	1502.8	1396.2	1289.0	1217.7	1140.9	1081.3	1033.4	960.4	947.6	963.1
7.5°	1411.1	1329.5	1188.7	1051.9	950.9	855.2	790.9	739.7	682.5	658.0	659.5
10°	1273.3	1181.2	1014.8	866.0	783.3	718.6	664.6	611.9	554.2	516.2	505.7
12.5°	1196.2	1090.2	898.5	765.4	688.8	620.8	562.5	506.3	444.5	405.8	394.7
15°	1182.8	1067.6	854.6	701.1	605.1	519.0	450.2	387.4	323.8	292.5	285.9
17.5°	1240.6	1108.0	840.5	643.8	526.3	420.1	335.6	265.5	213.7	198.0	196.8
20°	1351.5	1185.5	838.7	589.9	448.7	324.2	233.9	182.8	160.1	155.6	155.9
22.5°	1507.1	1305.4	861.2	549.5	377.3	241.7	175.8	153.0	144.2	140.0	140.0
25°	1708.7	1470.9	913.0	519.8	315.2	193.0	155.1	141.6	133.2	130.3	130.9
27.5°	1903.8	1631.7	973.3	496.6	274.7	175.3	147.1	134.7	127.4	124.5	125.9
30°	2056.1	1774.5	1023.4	465.0	254.0	170.3	149.8	137.4	126.9	122.3	122.7
32.5°	2182.2	1899.6	1065.6	442.1	235.7	146.0	129.3	123.7	122.3	117.1	114.7
35°	2343.3	2035.9	1093.9	442.7	227.1	130.3	115.2	105.5	98.4	92.3	92.3
37.5°	2532.2	2192.4	1123.9	448.7	223.9	121.1	110.1	100.5	94.0	88.2	87.1
40°	2719.0	2345.7	1151.4	454.5	222.2	115.6	106.2	97.3	91.3	85.6	84.0
42.5°	2877.8	2471.7	1176.1	457.2	215.9	115.2	103.3	95.2	89.6	83.3	81.7
45°	2995.3	2577.4	1202.4	461.8	209.6	117.1	103.3	95.0	87.9	81.8	80.3
47.5°	3100.2	2701.6	1246.6	461.8	201.9	113.2	106.8	95.2	87.7	81.3	80.0
50°	3240.6	2871.5	1330.3	450.9	191.2	109.1	112.5	94.2	85.2	80.3	78.7
52.5°	3434.3	3089.5	1463.2	432.4	174.8	101.0	111.7	93.7	83.0	77.8	75.8
55°	3663.2	3322.8	1608.1	410.7	150.1	95.2	107.7	92.3	80.3	74.6	72.8
57.5°	3842.0	3483.4	1710.3	377.3	128.6	92.0	95.5	91.1	77.2	71.1	69.6
60°	3913.0	3477.2	1738.2	332.6	118.2	89.6	83.5	102.0	74.6	68.5	66.7
62.5°	3874.6	3316.5	1659.7	301.1	115.9	86.1	78.2	94.4	72.5	66.7	64.0
65°	3697.0	3031.9	1451.8	292.8	122.7	82.6	74.7	74.0	69.6	64.0	61.4
67.5°	3310.1	2606.5	1162.3	293.6	131.3	79.3	71.4	67.7	65.7	61.3	58.8
70°	2696.1	2060.8	866.4	295.6	135.7	75.4	67.7	63.8	61.4	57.0	55.4
72.5°	1982.3	1588.4	629.4	282.0	136.5	70.8	62.8	59.4	57.0	52.3	51.1
75°	1356.3	1215.0	436.7	233.6	119.0	64.6	57.3	54.2	52.6	46.8	46.1
77.5°	990.7	912.0	279.5	173.5	91.8	56.8	50.5	48.1	47.2	40.9	39.7
80°	795.1	721.6	174.8	118.8	67.3	47.6	42.4	41.1	40.1	33.7	33.0
82.5°	551.5	483.2	112.3	77.2	50.5	36.9	33.4	33.0	31.4	25.6	24.9
85°	291.0	262.5	71.1	52.6	36.7	25.4	23.3	23.3	22.5	17.0	16.4
87.5°	37.2	60.5	36.1	27.5	20.1	11.3	11.3	11.0	11.8	9.7	8.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0
2.5°	1299.5	1312.1	1299.9	1300.7	1314.1	1353.8	1371.9	1386.9	1402.9	1413.3	1418.0
5°	941.9	971.2	981.0	1002.0	1033.0	1083.6	1103.7	1118.4	1128.1	1133.9	1136.3
7.5°	644.2	662.0	681.8	715.5	782.8	812.5	825.9	822.6	811.6	807.7	803.8
10°	485.5	478.4	474.8	493.3	547.8	577.9	587.3	578.1	572.2	573.5	580.0
12.5°	376.2	364.0	349.0	346.9	382.8	409.6	415.7	416.3	427.2	436.8	451.3
15°	274.3	272.8	265.5	261.0	281.4	303.4	306.1	310.9	320.8	327.8	340.4
17.5°	193.3	200.4	206.2	209.0	224.4	240.1	237.3	234.9	233.1	233.1	239.0
20°	155.9	160.6	168.0	176.3	192.1	202.9	196.0	186.6	179.8	177.7	178.5
22.5°	140.4	144.2	148.3	155.6	169.8	177.3	169.8	163.0	156.1	153.8	153.0
25°	132.6	137.4	141.3	146.8	157.3	162.5	155.1	150.1	146.0	143.1	141.0
27.5°	128.2	132.4	133.4	136.1	144.9	149.7	146.0	143.9	141.3	138.7	136.1
30°	123.4	122.7	120.8	121.1	128.2	132.9	132.6	133.2	132.9	132.1	131.6
32.5°	112.7	111.2	109.7	111.2	117.8	121.9	122.2	123.2	123.2	123.0	125.0
35°	94.0	96.7	98.6	103.3	111.2	114.9	113.2	110.8	106.0	103.0	102.9
37.5°	86.9	87.3	90.5	97.0	105.7	109.1	106.8	100.7	97.6	97.0	97.8
40°	83.5	84.0	85.8	91.8	100.5	103.8	101.8	97.3	94.4	94.2	95.5
42.5°	81.0	81.7	82.6	86.9	94.0	98.2	98.4	95.2	91.8	92.0	93.5
45°	79.8	80.0	79.8	81.8	88.5	93.5	95.5	93.5	90.5	91.1	92.6
47.5°	79.5	78.7	77.8	78.2	85.0	90.0	92.6	91.8	90.5	91.1	92.3
50°	78.5	76.6	75.4	75.1	81.8	87.1	89.6	89.6	90.0	91.1	92.3
52.5°	75.4	73.2	73.2	72.5	79.8	84.8	86.3	86.5	87.3	89.2	91.1
55°	71.4	70.6	71.4	70.1	78.2	83.0	83.7	84.3	84.8	86.3	88.9
57.5°	68.0	67.0	68.8	68.4	77.0	81.0	81.0	82.1	82.1	84.3	86.3
60°	66.1	64.0	64.9	65.3	75.1	79.5	79.1	80.0	80.6	82.5	84.0
62.5°	63.8	62.1	62.1	63.3	73.0	77.2	77.0	77.8	79.8	80.3	81.8
65°	60.9	60.1	59.4	60.9	70.8	74.6	74.7	75.8	77.8	78.2	79.5
67.5°	58.1	58.3	56.8	58.3	69.1	72.0	72.0	74.0	74.7	75.8	77.2
70°	54.9	55.2	53.9	55.8	67.7	69.1	68.8	71.7	72.3	73.0	74.3
72.5°	51.1	51.1	50.5	53.1	65.7	66.1	65.7	68.0	68.4	69.1	69.6
75°	46.8	46.8	46.4	49.9	64.4	63.1	61.4	63.3	63.8	64.4	64.4
77.5°	41.3	41.9	41.9	46.4	59.8	61.8	56.6	57.5	58.3	58.6	57.9
80°	34.6	35.8	36.4	42.1	50.2	57.0	50.5	51.3	51.6	51.6	50.5
82.5°	26.4	28.7	30.2	36.4	38.4	47.9	43.9	44.7	43.9	42.4	41.9
85°	18.3	21.5	23.0	27.8	29.0	36.9	36.7	36.7	35.0	33.0	32.7
87.5°	9.9	11.8	12.8	16.4	19.9	24.9	26.9	26.2	24.9	23.5	23.9
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0
2.5°	1442.6	1478.2	1534.9	1578.3	1622.0	1664.2	1709.7	1744.5	1774.1	1785.6	1820.7
5°	1160.0	1204.4	1258.2	1355.0	1423.5	1499.1	1586.4	1702.1	1746.6	1808.1	1908.8
7.5°	820.2	860.4	946.9	1025.1	1122.2	1229.2	1347.1	1506.6	1564.9	1663.7	1827.7
10°	612.5	659.3	728.6	794.6	880.1	989.5	1124.9	1303.4	1374.2	1481.2	1670.2
12.5°	493.3	548.7	622.2	684.1	750.4	827.5	959.1	1154.9	1249.7	1343.4	1534.5
15°	379.1	436.8	505.1	584.0	656.9	740.2	878.1	1092.0	1201.4	1298.9	1461.9
17.5°	262.5	311.8	397.9	480.1	573.5	679.9	855.5	1105.4	1235.9	1348.4	1474.5
20°	185.9	214.2	284.9	380.2	496.6	630.3	851.4	1175.4	1345.2	1473.7	1555.1
22.5°	156.5	166.9	208.0	295.4	429.8	593.2	866.0	1273.8	1492.9	1656.8	1683.6
25°	142.7	148.8	170.3	231.9	370.5	566.1	915.5	1420.3	1675.3	1840.0	1835.2
27.5°	134.9	141.6	155.6	195.7	325.7	549.5	964.9	1594.0	1884.1	2038.9	1980.3
30°	132.6	141.6	156.5	184.4	293.7	523.0	1005.5	1746.6	2044.8	2173.0	2046.1
32.5°	130.9	132.1	138.9	159.1	263.5	492.1	1033.0	1883.3	2202.0	2300.6	2141.1
35°	105.7	112.3	123.2	142.7	245.6	473.5	1033.0	2001.5	2357.0	2429.6	2231.6
37.5°	101.8	107.5	117.1	133.7	235.7	464.3	1012.2	2115.1	2515.3	2575.9	2306.2
40°	99.7	104.5	113.5	126.9	231.6	454.0	982.1	2215.7	2669.9	2722.5	2375.7
42.5°	98.2	102.2	110.9	122.7	226.1	442.3	957.9	2296.2	2804.0	2847.4	2442.2
45°	97.3	101.8	111.2	124.8	215.1	427.2	949.7	2383.4	2914.5	2951.9	2514.1
47.5°	97.3	102.5	112.5	129.3	201.9	411.6	975.1	2498.1	3018.8	3037.1	2598.9
50°	96.6	102.2	116.2	124.8	182.8	391.7	1034.7	2642.9	3131.9	3133.9	2706.2
52.5°	95.0	101.8	125.0	122.2	160.8	365.5	1115.2	2828.7	3299.0	3311.6	2874.1
55°	93.2	101.0	122.7	116.2	142.8	334.3	1181.2	3054.3	3533.9	3568.7	3121.2
57.5°	90.8	99.9	118.8	107.7	131.1	294.4	1205.0	3219.7	3698.1	3785.4	3399.5
60°	88.8	99.2	107.3	102.9	123.7	260.6	1159.0	3187.0	3686.7	3875.1	3646.2
62.5°	86.5	99.9	97.8	99.7	120.4	238.9	1038.6	2925.2	3500.2	3782.6	3829.0
65°	84.3	92.9	92.3	97.0	119.6	230.2	860.9	2532.5	3139.7	3489.7	3872.2
67.5°	81.0	85.8	88.5	93.7	122.2	222.6	694.8	2089.0	2638.7	3051.1	3647.3
70°	77.8	81.7	84.5	89.6	120.6	219.2	577.9	1647.4	2093.7	2500.5	3203.3
72.5°	73.2	76.6	79.3	84.0	119.0	217.4	488.1	1326.6	1563.2	1857.4	2604.5
75°	68.0	71.1	73.0	77.8	114.1	199.1	383.8	1122.6	1169.8	1292.1	2074.4
77.5°	62.1	64.4	65.9	71.1	101.0	165.6	277.5	866.0	908.4	938.2	1590.4
80°	54.9	57.3	58.1	63.1	83.7	129.4	181.1	639.7	679.4	686.2	1038.6
82.5°	46.8	49.1	49.1	53.9	68.5	93.2	118.8	438.3	446.1	469.0	734.2
85°	37.6	39.4	39.4	41.9	53.1	69.6	81.7	220.1	217.7	248.6	636.0
87.5°	26.9	28.2	29.6	30.2	38.0	46.1	49.1	67.0	44.1	50.8	408.4
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0	1608.0
2.5°	1847.0	1861.9	1846.7	1835.7	1788.4	1749.4	1697.3	1670.7
5°	1985.4	2023.3	2010.5	1964.6	1865.6	1754.4	1628.1	1571.0
7.5°	1968.6	2056.8	2058.9	1972.9	1827.2	1663.4	1492.3	1411.1
10°	1838.4	1951.2	1983.4	1899.8	1745.2	1562.2	1366.0	1273.3
12.5°	1692.9	1803.3	1828.0	1799.1	1669.9	1485.9	1286.9	1196.2
15°	1573.9	1623.3	1652.6	1677.8	1605.4	1455.7	1282.5	1182.8
17.5°	1501.4	1495.9	1504.3	1548.0	1560.3	1490.5	1350.5	1240.6
20°	1475.2	1391.2	1389.1	1449.3	1539.1	1573.4	1483.5	1351.5
22.5°	1489.7	1353.7	1336.4	1407.7	1550.4	1692.9	1657.6	1507.1
25°	1539.3	1356.8	1342.8	1412.0	1591.2	1820.3	1845.7	1708.7
27.5°	1617.6	1376.7	1358.3	1429.3	1645.3	1927.4	2031.0	1903.8
30°	1691.9	1411.1	1388.4	1463.2	1694.8	1969.8	2144.6	2056.1
32.5°	1782.1	1475.7	1435.9	1525.9	1755.9	2037.3	2245.8	2182.2
35°	1870.6	1567.9	1518.1	1622.2	1824.3	2121.2	2361.4	2343.3
37.5°	1967.6	1688.3	1647.1	1747.2	1917.7	2200.5	2509.0	2532.2
40°	2071.2	1847.9	1799.1	1929.2	2062.6	2299.9	2663.0	2719.0
42.5°	2175.7	2024.9	1966.8	2098.7	2222.0	2398.0	2794.8	2877.8
45°	2295.2	2217.2	2189.8	2332.3	2374.9	2491.4	2892.3	2995.3
47.5°	2434.3	2435.5	2479.6	2536.6	2529.4	2597.1	2990.1	3100.2
50°	2596.8	2707.9	2805.3	2843.2	2688.4	2710.6	3125.8	3240.6
52.5°	2792.0	3033.4	3154.4	3129.4	2859.8	2849.3	3340.8	3434.3
55°	3036.1	3378.3	3498.4	3480.7	3056.8	3038.2	3608.9	3663.2
57.5°	3318.7	3712.3	3822.7	3742.8	3293.2	3245.3	3830.4	3842.0
60°	3566.9	3977.2	4074.0	3985.2	3531.9	3465.9	3968.8	3913.0
62.5°	3705.1	4066.8	4134.9	4039.4	3695.4	3700.8	3999.2	3874.6
65°	3643.3	3840.1	3862.1	3854.2	3653.2	3837.2	3890.0	3697.0
67.5°	3305.4	3266.5	3303.4	3354.5	3292.2	3657.7	3587.8	3310.1
70°	2709.8	2497.2	2570.7	2604.9	2633.2	3147.5	3114.1	2696.1
72.5°	2042.1	1749.4	1807.5	1800.5	1931.3	2524.6	2421.8	1982.3
75°	1447.0	1186.2	1193.5	1190.7	1347.5	1975.3	1753.6	1356.3
77.5°	1012.5	859.4	863.4	879.6	906.0	1489.7	1252.9	990.7
80°	696.1	652.2	673.9	675.3	627.8	1000.7	925.7	795.1
82.5°	518.5	453.4	448.2	455.7	492.1	810.8	711.4	551.5
85°	424.5	268.5	215.9	270.5	436.0	802.9	472.5	291.0
87.5°	239.0	127.4	57.5	106.8	174.0	531.5	136.5	37.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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