

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: P269014

Luminaire Tested: **GLEON-AF-01-LED-E1-SLR-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269014
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-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA 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: 3135.8 lumens
Efficiency: N/A
Efficacy: 92.2 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 - 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: 25 FT

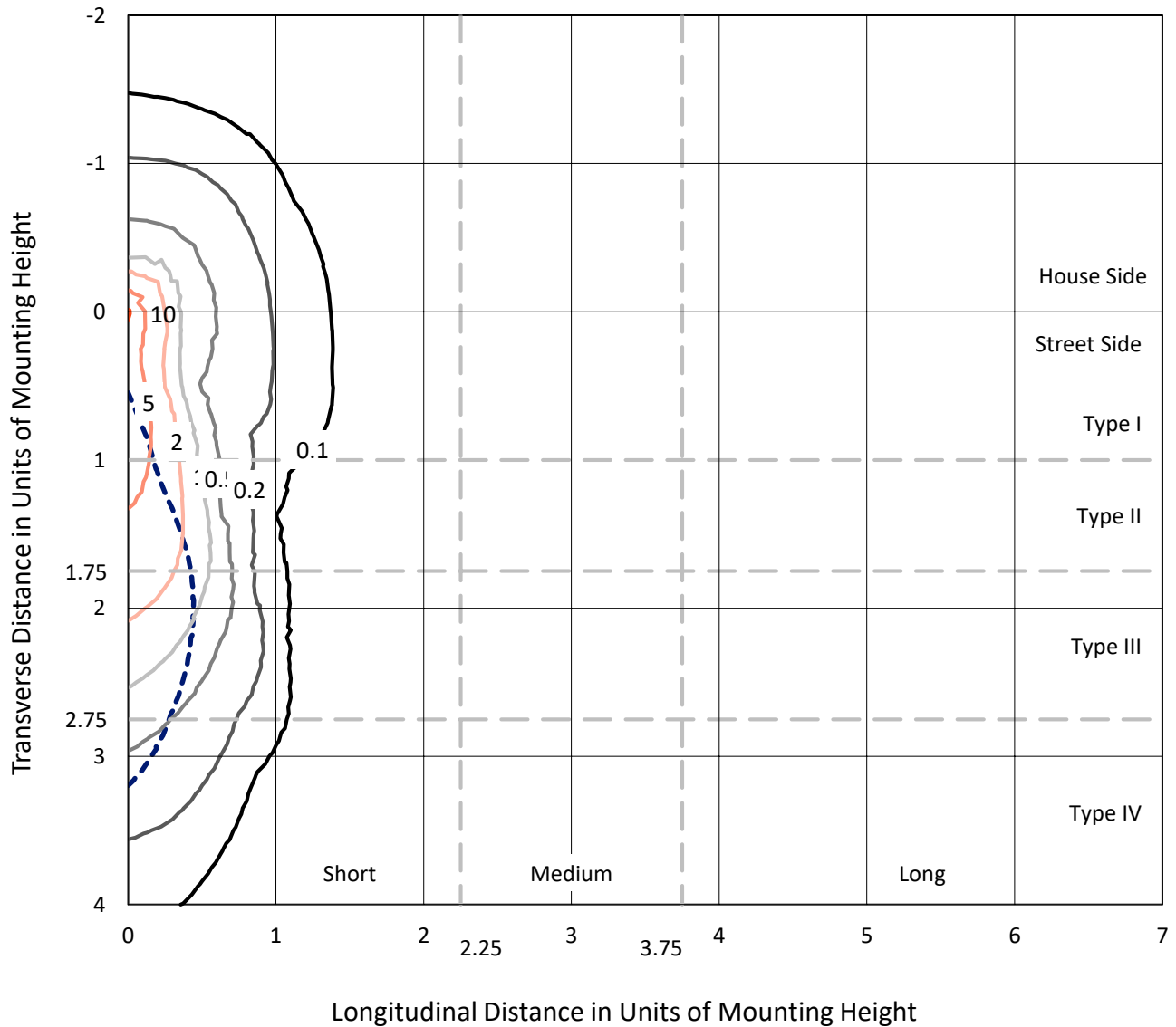


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Iso-Footcandle Lines of Horizontal Illumination

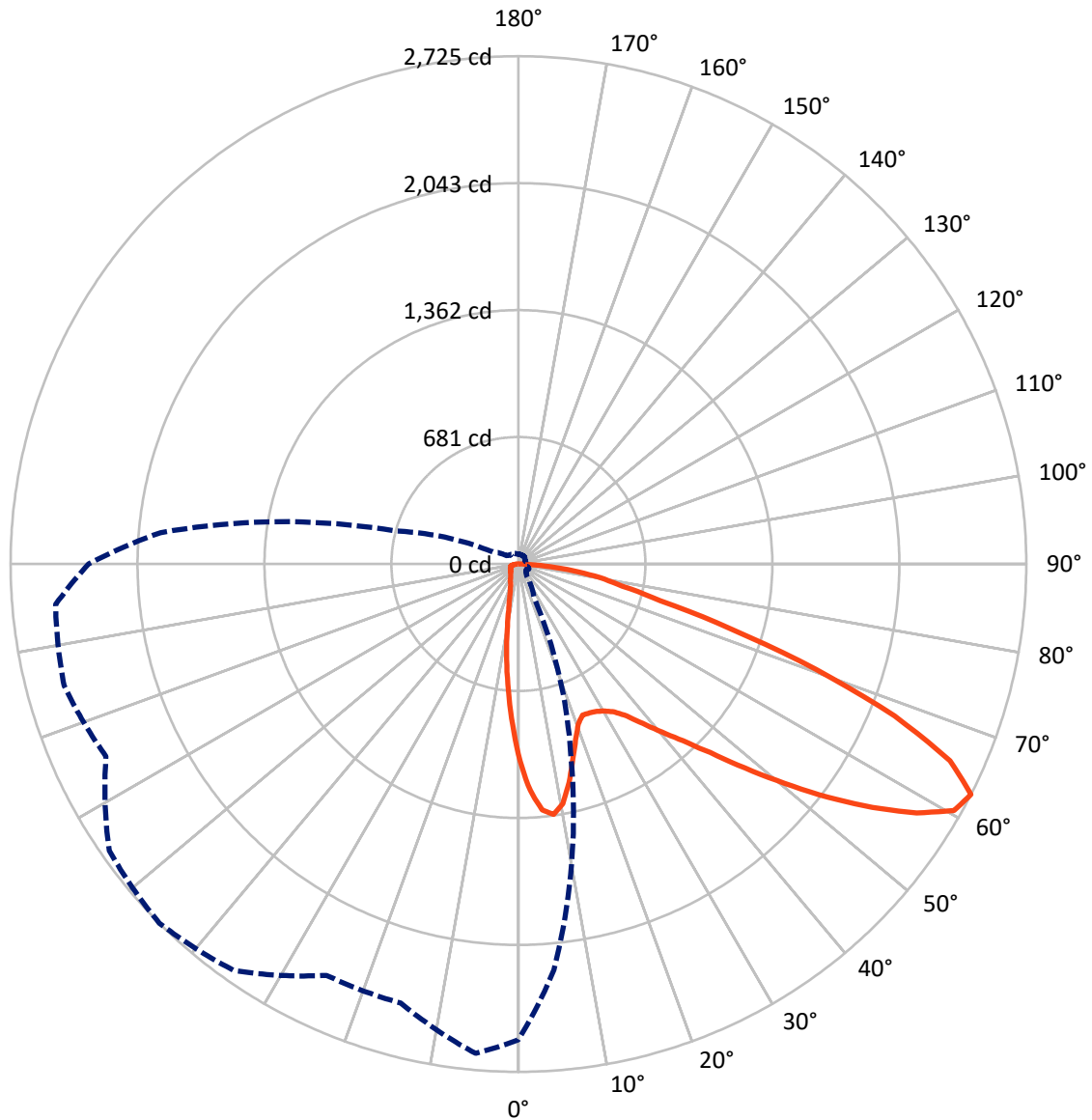
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.6 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	518.9	0.0	518.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	2616.9	0.0	2616.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	3135.8	0.0	3135.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	2.5
10°-20°	141.4	4.5
20°-30°	206.2	6.6
30°-40°	317.6	10.1
40°-50°	467.4	14.9
50°-60°	685.5	21.9
60°-70°	766.3	24.4
70°-80°	375.2	12.0
80°-90°	99.1	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°	3135.8	100.0
0°-180°	3135.8	100.0



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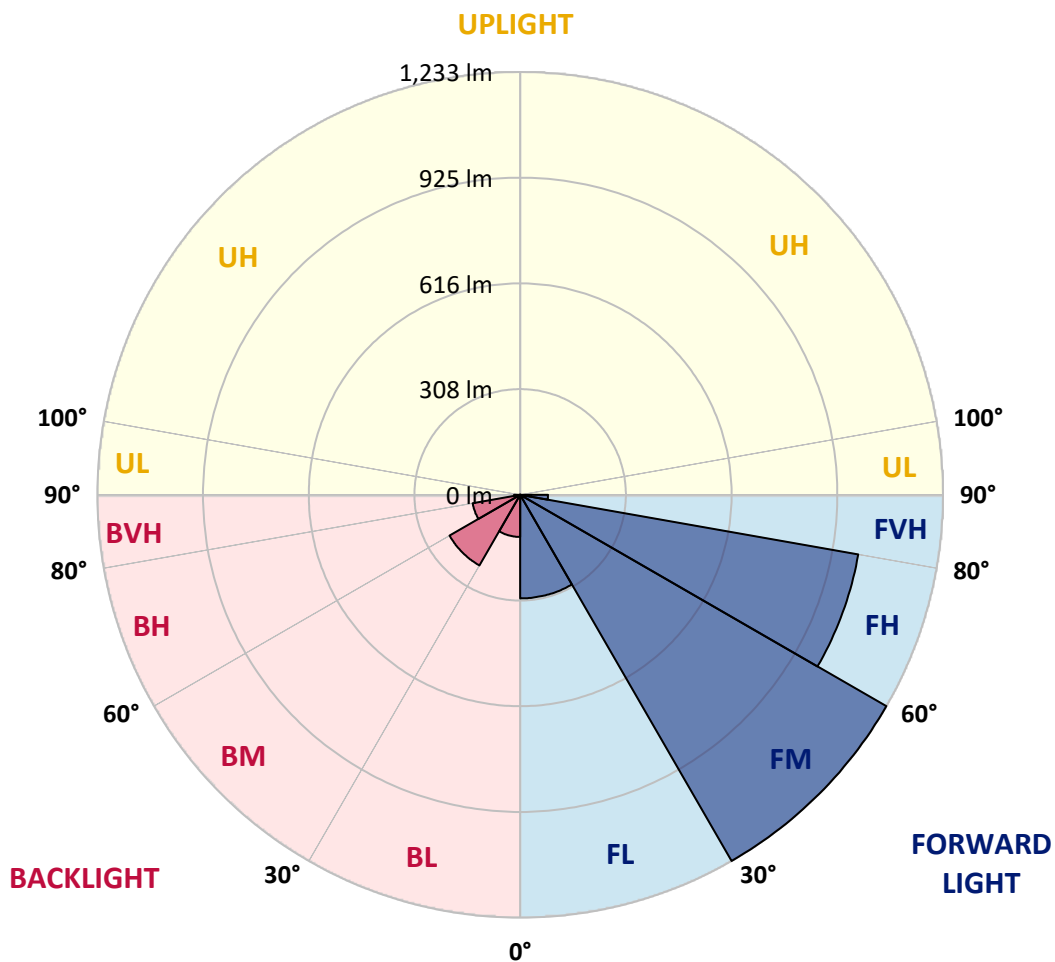
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	302.0	9.6			
FM	(30°-60°)	1232.7	39.3			
FH	(60°-80°)	1000.8	31.9			G1/1800
FVH	(80°-90°)	81.4	2.6			G1/100
BL	(0°-30°)	122.8	3.9	B1/500		
BM	(30°-60°)	237.8	7.6	B1/1000		
BH	(60°-80°)	140.7	4.5	B1/500		G1/500
BVH	(80°-90°)	17.7	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5
2.5°	1100.9	1078.4	1041.1	1002.4	978.8	951.1	929.7	910.7	872.8	865.3	872.1
5°	1035.1	990.1	920.0	849.3	802.2	751.7	712.4	680.9	632.9	624.3	634.6
7.5°	929.8	876.0	783.3	693.1	626.6	563.4	521.0	487.3	449.7	433.5	434.6
10°	838.9	778.3	668.7	570.6	516.0	473.5	437.8	403.2	365.2	340.1	333.2
12.5°	788.2	718.4	592.0	504.4	453.9	409.1	370.6	333.6	292.8	267.3	260.1
15°	779.3	703.6	563.1	462.0	398.7	342.1	296.7	255.3	213.3	192.7	188.5
17.5°	817.5	730.1	553.9	424.2	346.8	276.9	221.2	175.0	140.9	130.6	129.6
20°	890.5	781.0	552.6	388.7	295.6	213.5	154.1	120.6	105.6	102.5	102.8
22.5°	993.0	860.1	567.5	361.9	248.7	159.3	115.8	100.8	95.0	92.3	92.3
25°	1125.8	969.1	601.7	342.6	207.7	127.2	102.2	93.2	87.8	85.9	86.1
27.5°	1254.5	1075.1	641.3	327.3	181.0	115.5	96.8	88.8	83.9	82.0	83.0
30°	1354.7	1169.2	674.4	306.3	167.4	112.2	98.8	90.5	83.6	80.7	80.8
32.5°	1437.8	1251.7	702.1	291.3	155.2	96.2	85.2	81.6	80.7	77.3	75.5
35°	1543.9	1341.4	720.7	291.7	149.6	85.9	75.8	69.4	64.8	60.8	60.8
37.5°	1668.5	1444.6	740.6	295.6	147.5	79.8	72.6	66.1	62.0	58.1	57.4
40°	1791.6	1545.5	758.7	299.4	146.3	76.1	70.0	64.0	60.1	56.4	55.3
42.5°	1896.2	1628.6	774.9	301.3	142.2	75.8	68.1	62.7	59.0	54.8	53.8
45°	1973.5	1698.2	792.2	304.3	138.1	77.3	68.1	62.6	57.9	54.0	52.9
47.5°	2042.7	1780.0	821.4	304.3	133.0	74.6	70.3	62.7	57.8	53.5	52.7
50°	2135.4	1892.1	876.6	297.2	126.0	71.9	74.1	62.1	56.2	52.9	51.9
52.5°	2262.8	2035.6	964.2	284.9	115.2	66.6	73.7	61.8	54.6	51.3	49.9
55°	2413.7	2189.3	1059.6	270.6	99.0	62.7	71.1	60.8	52.9	49.1	47.9
57.5°	2531.5	2295.3	1126.8	248.7	84.8	60.6	62.9	59.9	50.8	46.9	45.9
60°	2578.2	2291.0	1145.2	219.0	78.0	59.0	54.9	67.3	49.1	45.2	43.9
62.5°	2553.0	2185.2	1093.5	198.4	76.4	56.8	51.6	62.3	47.8	43.9	42.2
65°	2435.9	1997.7	956.5	192.9	80.8	54.4	49.2	48.8	45.9	42.2	40.6
67.5°	2180.9	1717.4	765.9	193.4	86.5	52.2	47.0	44.6	43.3	40.3	38.7
70°	1776.4	1357.9	571.0	194.8	89.6	49.6	44.6	42.1	40.6	37.5	36.6
72.5°	1306.1	1046.5	414.7	185.8	90.0	46.7	41.4	39.2	37.5	34.5	33.5
75°	893.6	800.5	287.6	153.9	78.4	42.6	37.8	35.8	34.7	30.8	30.4
77.5°	652.8	601.0	184.2	114.3	60.5	37.4	33.2	31.7	31.0	26.9	26.2
80°	523.9	475.5	115.2	78.2	44.2	31.4	27.9	27.0	26.4	22.3	21.6
82.5°	363.4	318.4	73.9	50.8	33.2	24.3	22.1	21.6	20.8	16.9	16.3
85°	191.7	173.0	46.9	34.7	24.2	16.7	15.4	15.4	14.8	11.1	10.9
87.5°	24.4	39.9	23.7	18.1	13.2	7.5	7.5	7.2	7.7	6.4	5.5
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°	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5
2.5°	856.3	864.4	856.5	857.1	865.8	892.0	904.0	913.8	924.3	931.3	934.2
5°	620.5	640.0	646.4	660.3	680.6	714.1	727.3	736.9	743.3	747.1	748.6
7.5°	424.4	436.1	449.2	471.5	515.7	535.4	544.3	541.9	534.8	532.2	529.6
10°	319.9	315.2	312.9	325.0	360.9	380.8	387.0	380.9	377.0	377.8	382.1
12.5°	247.9	239.8	230.0	228.6	252.2	269.9	274.0	274.3	281.4	287.8	297.3
15°	180.6	179.8	175.0	172.0	185.5	200.0	201.7	204.9	211.3	216.0	224.2
17.5°	127.4	132.1	135.9	137.7	148.0	158.2	156.3	154.8	153.6	153.6	157.6
20°	102.8	105.8	110.8	116.2	126.5	133.8	129.0	122.9	118.4	117.0	117.6
22.5°	92.5	95.0	97.7	102.5	111.8	116.9	111.8	107.3	102.9	101.4	100.8
25°	87.3	90.5	93.1	96.7	103.7	107.1	102.2	99.0	96.2	94.3	93.0
27.5°	84.5	87.2	87.9	89.7	95.5	98.6	96.2	94.9	93.1	91.4	89.7
30°	81.3	80.8	79.6	79.8	84.5	87.6	87.3	87.8	87.6	87.0	86.6
32.5°	74.3	73.2	72.3	73.2	77.6	80.3	80.5	81.1	81.1	80.9	82.5
35°	62.0	63.8	64.9	68.1	73.2	75.6	74.6	72.9	69.8	67.9	67.7
37.5°	57.2	57.6	59.6	64.0	69.7	71.9	70.3	66.4	64.3	64.0	64.5
40°	54.9	55.3	56.6	60.5	66.1	68.5	67.1	64.0	62.3	62.1	62.9
42.5°	53.4	53.8	54.4	57.2	62.0	64.7	64.8	62.7	60.5	60.6	61.5
45°	52.6	52.7	52.6	54.0	58.3	61.5	62.9	61.5	59.6	59.9	61.1
47.5°	52.5	51.9	51.3	51.6	56.1	59.3	61.1	60.5	59.6	59.9	60.8
50°	51.7	50.6	49.6	49.4	54.0	57.4	59.0	59.0	59.3	59.9	60.8
52.5°	49.6	48.2	48.2	47.8	52.6	55.9	57.0	57.0	57.6	58.7	59.9
55°	47.0	46.5	47.0	46.3	51.6	54.6	55.2	55.5	55.9	57.0	58.6
57.5°	44.8	44.1	45.4	44.9	50.7	53.4	53.4	54.1	54.1	55.5	57.0
60°	43.6	42.2	42.8	43.1	49.4	52.5	52.0	52.7	53.1	54.3	55.3
62.5°	42.1	40.9	40.9	41.7	48.1	50.8	50.7	51.3	52.6	52.9	54.0
65°	40.2	39.6	39.2	40.2	46.7	49.1	49.2	49.9	51.3	51.6	52.5
67.5°	38.3	38.4	37.4	38.4	45.5	47.4	47.4	48.8	49.2	49.9	50.8
70°	36.2	36.4	35.6	36.7	44.6	45.5	45.4	47.3	47.6	48.1	49.0
72.5°	33.5	33.5	33.2	35.0	43.3	43.6	43.3	44.8	44.9	45.5	45.9
75°	30.8	30.8	30.5	32.9	42.4	41.5	40.6	41.7	42.1	42.4	42.4
77.5°	27.3	27.6	27.6	30.5	39.4	40.7	37.2	37.9	38.4	38.5	38.1
80°	22.7	23.6	24.0	27.8	33.1	37.5	33.2	33.7	34.0	34.0	33.2
82.5°	17.3	19.0	19.9	24.0	25.3	31.5	28.9	29.5	28.9	27.9	27.6
85°	12.0	14.2	15.2	18.2	19.1	24.3	24.2	24.2	23.0	21.6	21.6
87.5°	6.6	7.7	8.4	10.9	13.0	16.3	17.7	17.2	16.3	15.5	15.7
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°	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5
2.5°	950.4	973.9	1011.3	1040.0	1068.8	1096.6	1126.6	1149.4	1169.0	1176.5	1199.5
5°	764.4	793.7	829.0	892.7	937.9	987.7	1045.3	1121.5	1150.8	1191.3	1257.6
7.5°	540.4	567.0	623.9	675.3	739.3	809.8	887.5	992.7	1031.2	1096.2	1204.3
10°	403.6	434.4	480.1	523.5	579.9	651.9	741.2	858.8	905.5	976.0	1100.5
12.5°	325.0	361.5	409.9	450.8	494.3	545.2	632.0	760.9	823.4	885.2	1011.0
15°	249.8	287.8	332.8	384.7	432.9	487.7	578.5	719.5	791.5	855.8	963.3
17.5°	173.0	205.5	262.1	316.4	377.8	448.1	563.6	728.3	814.4	888.5	971.5
20°	122.6	141.2	187.7	250.4	327.3	415.2	560.9	774.5	886.4	971.0	1024.6
22.5°	103.0	110.0	137.0	194.7	283.2	390.9	570.6	839.3	983.6	1091.7	1109.2
25°	94.0	98.1	112.2	152.7	244.1	373.1	603.1	935.9	1103.9	1212.4	1209.3
27.5°	88.9	93.2	102.5	128.9	214.7	361.9	635.7	1050.3	1241.5	1343.3	1304.8
30°	87.3	93.2	103.0	121.5	193.6	344.6	662.5	1150.8	1347.4	1431.8	1348.1
32.5°	86.1	87.0	91.5	104.8	173.6	324.3	680.6	1241.0	1450.9	1515.9	1410.8
35°	69.7	73.9	81.1	94.0	161.9	312.0	680.6	1318.7	1553.0	1600.9	1470.4
37.5°	67.1	70.8	77.3	88.0	155.2	306.0	666.9	1393.7	1657.3	1697.3	1519.6
40°	65.7	68.8	74.7	83.6	152.5	299.0	647.0	1459.8	1759.2	1793.7	1565.3
42.5°	64.7	67.5	73.1	80.8	148.8	291.5	631.1	1512.9	1847.5	1876.2	1609.1
45°	64.0	67.1	73.2	82.3	141.8	281.4	625.7	1570.3	1920.3	1945.0	1656.6
47.5°	64.0	67.6	74.1	85.2	133.0	271.2	642.5	1646.1	1989.0	2001.2	1712.3
50°	63.6	67.5	76.5	82.3	120.6	258.1	681.8	1741.4	2063.5	2064.9	1783.1
52.5°	62.6	67.1	82.5	80.5	106.0	240.8	734.9	1863.8	2173.7	2182.1	1893.7
55°	61.4	66.6	80.8	76.5	94.1	220.4	778.3	2012.6	2328.5	2351.5	2056.5
57.5°	59.7	65.8	78.2	71.1	86.3	193.9	794.0	2121.4	2436.7	2494.1	2240.0
60°	58.4	65.3	70.6	67.7	81.6	171.7	763.6	2100.0	2429.1	2553.3	2402.4
62.5°	57.0	65.8	64.5	65.7	79.3	157.5	684.4	1927.5	2306.3	2492.3	2523.0
65°	55.5	61.2	60.8	64.0	78.8	151.8	567.3	1668.6	2068.7	2299.4	2551.5
67.5°	53.4	56.6	58.3	61.8	80.5	146.8	457.9	1376.5	1738.6	2010.2	2403.1
70°	51.3	53.8	55.7	59.0	79.5	144.4	380.8	1085.5	1379.5	1647.6	2110.7
72.5°	48.2	50.6	52.2	55.3	78.4	143.3	321.7	874.1	1029.9	1223.9	1716.0
75°	44.8	46.9	48.1	51.3	75.2	131.2	253.0	739.7	770.7	851.5	1366.9
77.5°	40.9	42.4	43.5	46.9	66.6	109.1	182.8	570.6	598.5	618.2	1048.0
80°	36.2	37.8	38.3	41.5	55.2	85.2	119.3	421.5	447.6	452.1	684.4
82.5°	30.8	32.3	32.3	35.6	45.2	61.4	78.2	288.7	293.9	309.0	483.6
85°	24.9	26.1	26.1	27.6	35.0	45.9	53.8	144.9	143.4	163.9	419.1
87.5°	17.7	18.7	19.5	19.9	25.1	30.4	32.3	44.1	29.1	33.4	269.1
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5	1059.5
2.5°	1217.1	1226.8	1216.8	1209.6	1178.3	1152.7	1118.4	1100.9
5°	1308.2	1333.2	1324.7	1294.4	1229.2	1155.9	1072.8	1035.1
7.5°	1297.2	1355.3	1356.6	1299.9	1203.9	1096.0	983.3	929.8
10°	1211.4	1285.7	1306.9	1251.9	1150.0	1029.3	900.0	838.9
12.5°	1115.4	1188.2	1204.4	1185.5	1100.3	979.2	847.9	788.2
15°	1037.1	1069.6	1088.9	1105.5	1057.8	959.1	845.0	779.3
17.5°	989.4	985.7	991.2	1019.9	1028.1	982.0	889.9	817.5
20°	972.1	916.7	915.4	955.0	1014.1	1036.7	977.4	890.5
22.5°	981.6	891.8	880.5	927.6	1021.6	1115.4	1092.2	993.0
25°	1014.2	894.0	884.8	930.4	1048.4	1199.4	1216.1	1125.8
27.5°	1065.7	907.1	895.0	941.8	1084.2	1269.9	1338.1	1254.5
30°	1114.7	929.8	914.8	964.2	1116.8	1297.8	1413.0	1354.7
32.5°	1174.3	972.3	946.0	1005.4	1157.0	1342.3	1479.7	1437.8
35°	1232.6	1033.1	1000.4	1069.0	1202.0	1397.7	1556.0	1543.9
37.5°	1296.4	1112.5	1085.3	1151.2	1263.6	1450.0	1653.2	1668.5
40°	1364.7	1217.6	1185.5	1271.1	1359.0	1515.4	1754.7	1791.6
42.5°	1433.5	1334.3	1296.0	1382.9	1464.1	1580.1	1841.5	1896.2
45°	1512.2	1461.0	1442.9	1536.8	1564.8	1641.7	1905.7	1973.5
47.5°	1604.1	1604.7	1633.8	1671.3	1666.5	1711.2	1970.2	2042.7
50°	1711.0	1784.2	1848.4	1873.4	1771.4	1786.0	2059.6	2135.4
52.5°	1839.6	1998.8	2078.4	2062.0	1884.3	1877.4	2201.2	2262.8
55°	2000.4	2226.0	2305.1	2293.4	2014.1	2001.9	2377.9	2413.7
57.5°	2186.7	2446.1	2518.8	2466.0	2169.9	2138.3	2523.8	2531.5
60°	2350.2	2620.5	2684.3	2625.8	2327.1	2283.8	2615.1	2578.2
62.5°	2441.2	2679.6	2724.5	2661.6	2434.9	2438.4	2635.0	2553.0
65°	2400.6	2530.2	2544.7	2539.5	2407.1	2528.3	2563.1	2435.9
67.5°	2177.9	2152.3	2176.7	2210.3	2169.2	2410.1	2364.0	2180.9
70°	1785.6	1645.3	1693.8	1716.4	1735.0	2073.8	2051.9	1776.4
72.5°	1345.7	1152.7	1191.1	1186.3	1272.4	1663.5	1595.7	1306.1
75°	953.5	781.5	786.3	784.5	888.0	1301.5	1155.5	893.6
77.5°	667.1	566.3	568.8	579.5	597.0	981.6	825.5	652.8
80°	458.8	429.7	444.0	444.9	413.7	659.4	609.9	523.9
82.5°	341.6	298.7	295.4	300.4	324.3	534.2	468.6	363.4
85°	279.8	176.8	142.2	178.3	287.4	529.0	311.4	191.7
87.5°	157.6	83.9	37.9	70.3	114.7	350.2	90.0	24.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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