

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: P299455

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P194679)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-01-LED-E1-SLR-7027-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND 90° Spill
Light Eliminator Right OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3124.6 lumens
Efficiency: N/A
Efficacy: 91.9 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

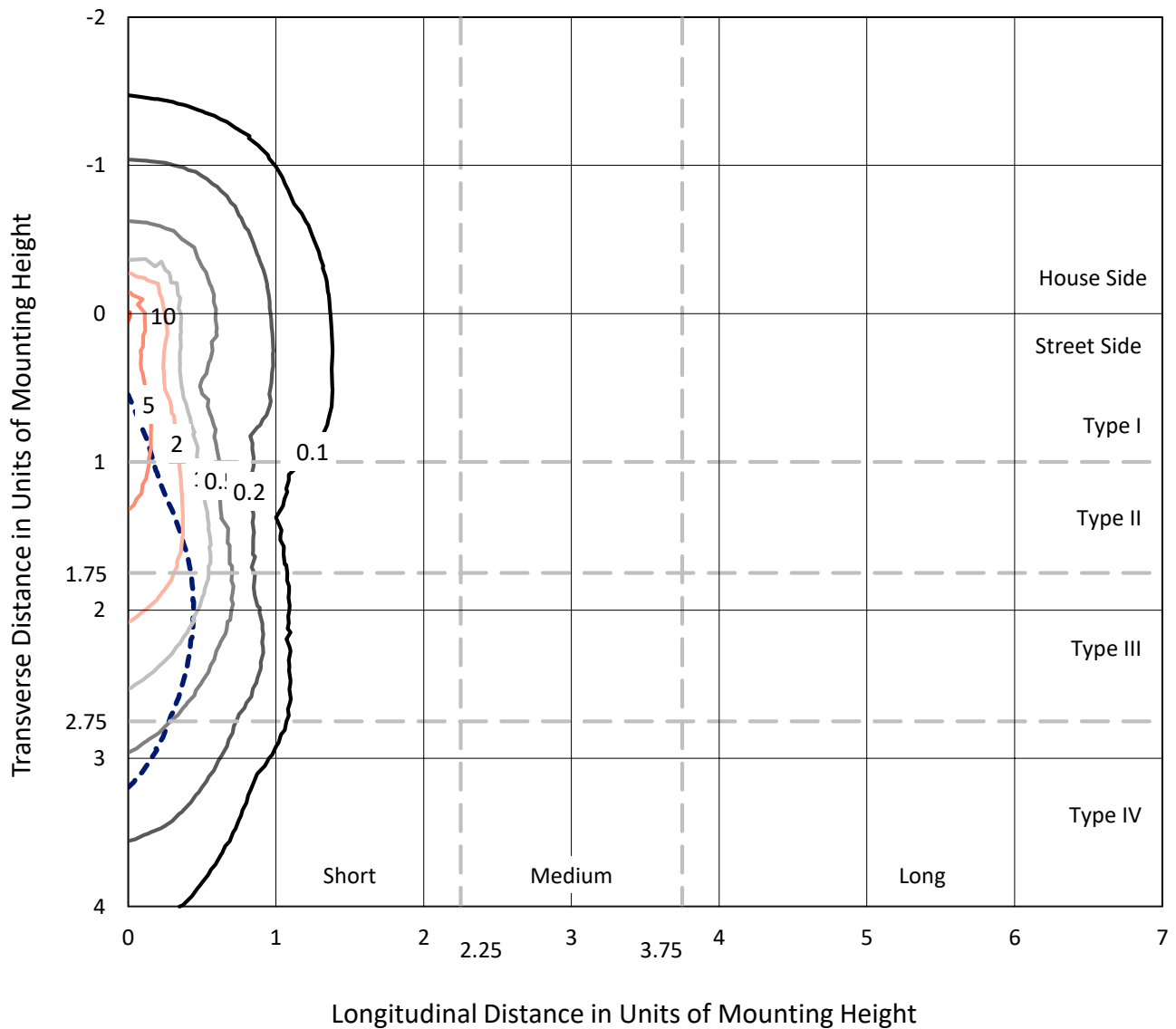
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

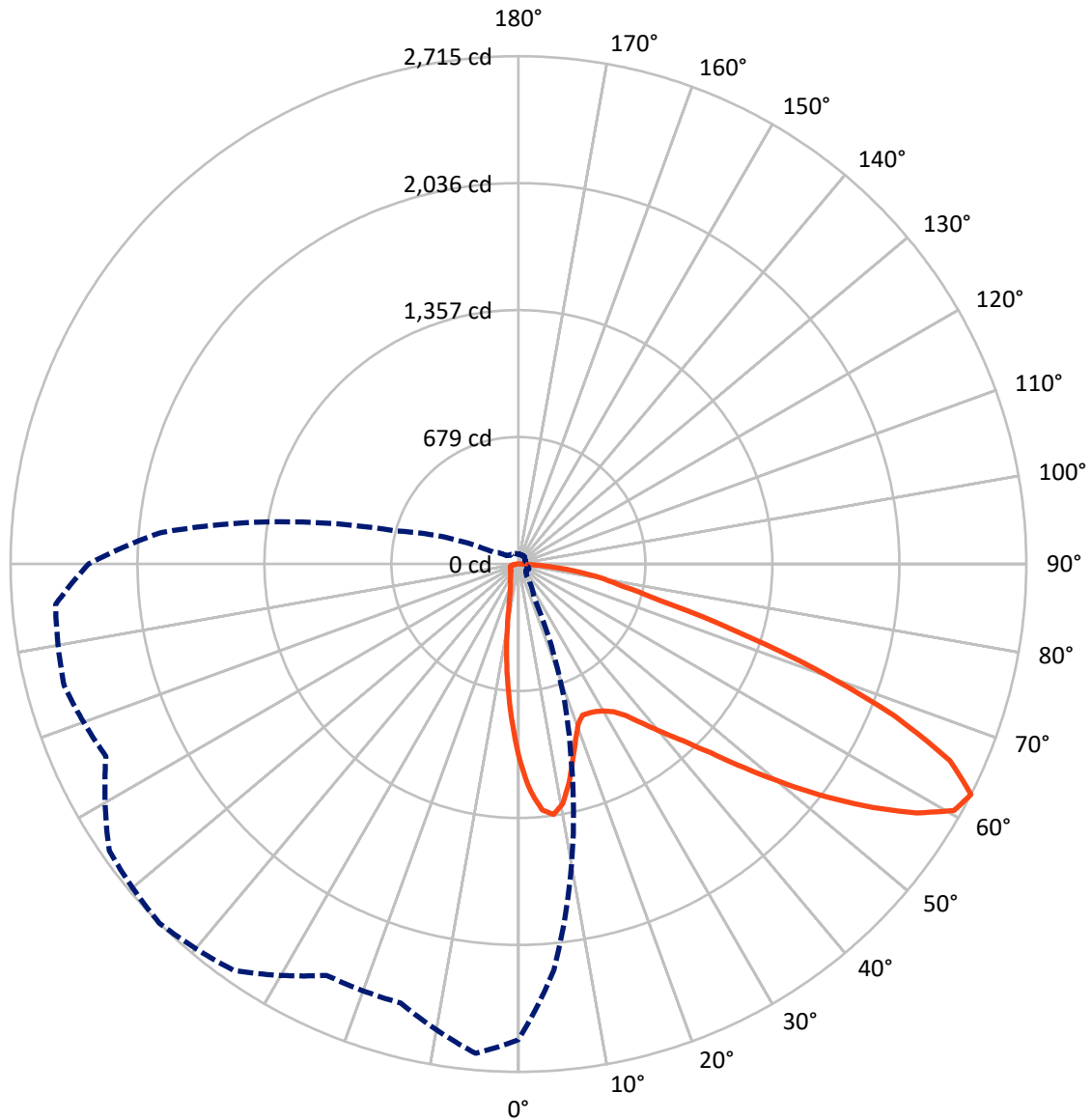
× Max cd
 - - - 1/2 Max cd



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	517.1	0.0	517.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	2607.5	0.0	2607.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	3124.6	0.0	3124.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	2.5
10°-20°	140.9	4.5
20°-30°	205.5	6.6
30°-40°	316.4	10.1
40°-50°	465.7	14.9
50°-60°	683.1	21.9
60°-70°	763.6	24.4
70°-80°	373.8	12.0
80°-90°	98.7	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°	3124.6	100.0
0°-180°	3124.6	100.0



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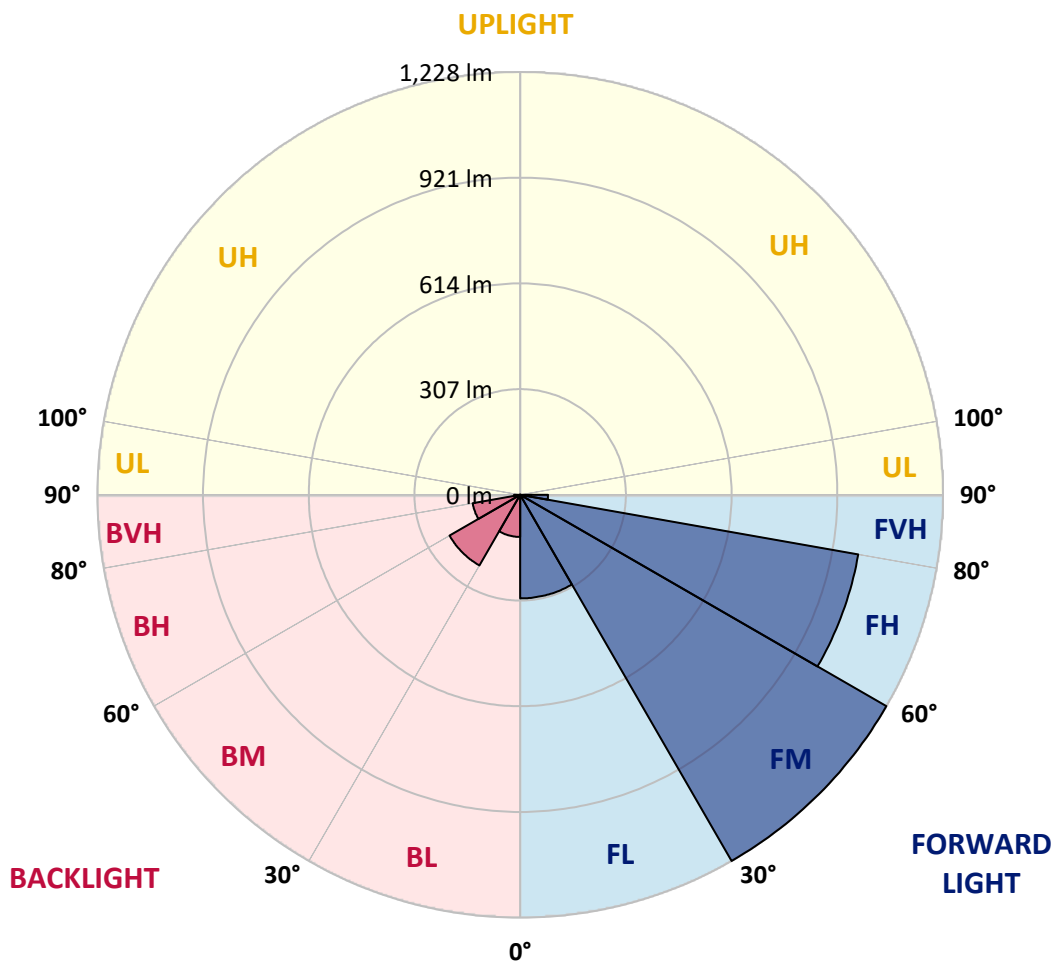
CATALOG NUMBER: GLNA-AF-01-LED-E1-SLR-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	300.9	9.6			
FM	(30°-60°)	1228.3	39.3			
FH	(60°-80°)	997.3	31.9			G1/1800
FVH	(80°-90°)	81.1	2.6			G1/100
BL	(0°-30°)	122.3	3.9	B1/500		
BM	(30°-60°)	236.9	7.6	B1/1000		
BH	(60°-80°)	140.2	4.5	B1/500		G1/500
BVH	(80°-90°)	17.6	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°	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7
2.5°	1096.8	1074.5	1037.4	998.8	975.3	947.8	926.3	907.4	869.6	862.2	868.9
5°	1031.4	986.6	916.7	846.3	799.4	749.0	709.9	678.5	630.5	622.1	632.2
7.5°	926.5	872.9	780.5	690.6	624.3	561.5	519.3	485.6	448.1	432.0	433.0
10°	836.0	775.5	666.3	568.5	514.3	471.8	436.3	401.7	363.8	338.9	332.0
12.5°	785.3	715.8	589.8	502.6	452.2	407.6	369.3	332.4	291.8	266.4	259.2
15°	776.5	700.9	561.2	460.3	397.3	340.8	295.6	254.4	212.6	192.0	187.7
17.5°	814.5	727.4	551.9	422.7	345.6	275.9	220.4	174.3	140.3	130.0	129.2
20°	887.3	778.3	550.7	387.3	294.6	212.8	153.6	120.1	105.1	102.2	102.4
22.5°	989.5	857.1	565.4	360.7	247.7	158.7	115.4	100.5	94.6	91.9	91.9
25°	1121.8	965.7	599.4	341.3	207.0	126.8	101.9	92.9	87.4	85.5	85.9
27.5°	1249.9	1071.3	639.0	326.0	180.3	115.1	96.5	88.4	83.7	81.7	82.6
30°	1349.9	1165.1	671.9	305.2	166.8	111.8	98.4	90.2	83.3	80.4	80.5
32.5°	1432.7	1247.2	699.6	290.3	154.7	95.8	84.9	81.2	80.4	77.0	75.2
35°	1538.5	1336.7	718.1	290.6	149.1	85.5	75.6	69.2	64.6	60.6	60.6
37.5°	1662.5	1439.4	737.9	294.6	147.1	79.5	72.3	65.9	61.7	57.9	57.2
40°	1785.1	1540.0	755.9	298.4	145.8	75.9	69.7	63.9	60.0	56.2	55.1
42.5°	1889.4	1622.8	772.1	300.2	141.7	75.6	67.9	62.5	58.8	54.6	53.6
45°	1966.5	1692.2	789.4	303.1	137.6	77.0	67.9	62.3	57.7	53.8	52.7
47.5°	2035.4	1773.6	818.5	303.1	132.6	74.4	70.1	62.5	57.6	53.4	52.6
50°	2127.6	1885.2	873.4	296.1	125.6	71.6	73.8	61.8	56.0	52.7	51.7
52.5°	2254.7	2028.3	960.7	283.9	114.8	66.3	73.3	61.5	54.4	51.0	49.8
55°	2405.0	2181.5	1055.8	269.7	98.6	62.5	70.8	60.6	52.7	48.9	47.7
57.5°	2522.3	2287.0	1122.8	247.7	84.5	60.5	62.7	59.8	50.6	46.7	45.7
60°	2569.0	2282.9	1141.2	218.3	77.6	58.8	54.8	67.0	48.9	45.0	43.8
62.5°	2543.8	2177.4	1089.7	197.7	76.1	56.5	51.4	62.0	47.6	43.8	42.1
65°	2427.2	1990.5	953.1	192.2	80.5	54.3	49.1	48.6	45.7	42.1	40.4
67.5°	2173.1	1711.3	763.1	192.7	86.2	52.1	46.9	44.5	43.1	40.2	38.6
70°	1770.0	1353.0	568.9	194.1	89.1	49.5	44.5	41.9	40.4	37.4	36.4
72.5°	1301.5	1042.8	413.3	185.2	89.6	46.5	41.2	39.0	37.4	34.4	33.5
75°	890.4	797.7	286.7	153.4	78.2	42.4	37.6	35.6	34.5	30.7	30.2
77.5°	650.4	598.8	183.4	113.9	60.3	37.3	33.2	31.6	30.9	26.8	26.1
80°	522.0	473.7	114.8	78.0	44.1	31.3	27.8	27.0	26.3	22.2	21.6
82.5°	362.1	317.2	73.7	50.6	33.2	24.2	22.0	21.6	20.6	16.8	16.3
85°	191.0	172.3	46.7	34.5	24.0	16.6	15.3	15.3	14.8	11.2	10.8
87.5°	24.4	39.7	23.7	18.0	13.2	7.4	7.4	7.2	7.7	6.3	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°	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7
2.5°	853.1	861.4	853.5	854.0	862.8	888.9	900.7	910.5	921.0	927.9	930.9
5°	618.4	637.6	644.1	657.8	678.1	711.4	724.6	734.3	740.7	744.4	746.0
7.5°	422.9	434.5	447.6	469.8	513.9	533.5	542.2	540.0	532.8	530.2	527.7
10°	318.8	314.2	311.7	323.9	359.7	379.4	385.6	379.6	375.6	376.5	380.8
12.5°	247.0	238.9	229.2	227.8	251.3	269.0	272.9	273.3	280.5	286.8	296.3
15°	180.0	179.1	174.3	171.4	184.8	199.3	201.0	204.0	210.6	215.2	223.4
17.5°	126.9	131.6	135.4	137.2	147.4	157.7	155.8	154.2	153.0	153.0	157.0
20°	102.4	105.5	110.3	115.7	126.1	133.3	128.6	122.5	118.0	116.6	117.2
22.5°	92.2	94.6	97.4	102.2	111.5	116.5	111.5	107.0	102.5	101.0	100.5
25°	87.1	90.2	92.8	96.4	103.2	106.6	101.9	98.6	95.8	94.0	92.6
27.5°	84.2	86.9	87.6	89.3	95.2	98.2	95.8	94.5	92.8	91.0	89.3
30°	81.1	80.5	79.3	79.5	84.2	87.3	87.1	87.4	87.3	86.7	86.4
32.5°	74.0	73.0	72.0	73.0	77.3	80.0	80.2	80.9	80.9	80.8	82.1
35°	61.7	63.5	64.7	67.9	73.0	75.4	74.4	72.6	69.6	67.6	67.5
37.5°	57.0	57.4	59.4	63.7	69.4	71.6	70.1	66.1	64.1	63.7	64.2
40°	54.8	55.1	56.3	60.3	65.9	68.2	66.8	63.9	62.0	61.8	62.7
42.5°	53.2	53.6	54.3	57.0	61.7	64.4	64.6	62.5	60.3	60.5	61.3
45°	52.4	52.6	52.4	53.8	58.0	61.3	62.7	61.3	59.4	59.8	60.8
47.5°	52.2	51.7	51.0	51.4	55.8	59.1	60.8	60.3	59.4	59.8	60.6
50°	51.5	50.3	49.5	49.3	53.8	57.2	58.8	58.8	59.1	59.8	60.6
52.5°	49.5	48.1	48.1	47.6	52.4	55.6	56.7	56.8	57.4	58.5	59.8
55°	46.9	46.4	46.9	46.0	51.4	54.4	55.0	55.3	55.6	56.7	58.4
57.5°	44.7	44.0	45.2	44.8	50.5	53.2	53.2	53.9	53.9	55.3	56.7
60°	43.5	42.1	42.6	43.0	49.3	52.2	51.9	52.6	52.9	54.1	55.1
62.5°	41.9	40.7	40.7	41.5	47.9	50.6	50.5	51.0	52.4	52.7	53.8
65°	40.0	39.5	39.0	40.0	46.5	48.9	49.1	49.8	51.0	51.4	52.2
67.5°	38.1	38.3	37.3	38.3	45.3	47.2	47.2	48.6	49.1	49.8	50.6
70°	36.1	36.2	35.4	36.6	44.5	45.3	45.2	47.1	47.4	47.9	48.8
72.5°	33.5	33.5	33.2	34.9	43.1	43.5	43.1	44.7	44.8	45.3	45.7
75°	30.7	30.7	30.4	32.8	42.3	41.4	40.4	41.5	41.9	42.3	42.3
77.5°	27.1	27.5	27.5	30.4	39.3	40.6	37.1	37.8	38.3	38.5	38.0
80°	22.7	23.6	23.9	27.7	33.0	37.4	33.2	33.6	33.9	33.9	33.2
82.5°	17.4	18.9	19.8	23.9	25.3	31.4	28.9	29.4	28.9	27.8	27.5
85°	12.0	14.1	15.1	18.2	19.1	24.2	24.0	24.0	23.0	21.6	21.5
87.5°	6.6	7.7	8.4	10.8	13.1	16.3	17.7	17.2	16.3	15.4	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°	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7
2.5°	947.1	970.4	1007.7	1036.2	1064.9	1092.6	1122.5	1145.3	1164.7	1172.3	1195.3
5°	761.6	790.8	826.0	889.5	934.6	984.2	1041.6	1117.5	1146.7	1187.1	1253.2
7.5°	538.5	564.9	621.6	673.0	736.7	807.0	884.4	989.2	1027.5	1092.2	1199.9
10°	402.1	432.8	478.3	521.6	577.8	649.6	738.6	855.7	902.3	972.5	1096.5
12.5°	323.9	360.2	408.4	449.2	492.6	543.3	629.7	758.1	820.5	882.0	1007.4
15°	248.9	286.8	331.7	383.4	431.3	485.9	576.5	717.0	788.7	852.8	959.8
17.5°	172.3	204.7	261.2	315.2	376.5	446.4	561.7	725.7	811.4	885.3	968.0
20°	122.1	140.7	187.0	249.6	326.0	413.7	558.9	771.7	883.2	967.5	1020.9
22.5°	102.7	109.6	136.5	193.9	282.2	389.4	568.5	836.3	980.1	1087.7	1105.3
25°	93.6	97.8	111.8	152.2	243.2	371.7	601.0	932.5	1100.0	1208.0	1204.9
27.5°	88.6	92.9	102.2	128.5	213.9	360.7	633.4	1046.6	1237.0	1338.5	1300.1
30°	87.1	92.9	102.7	121.1	192.9	343.3	660.1	1146.7	1342.5	1426.7	1343.4
32.5°	85.9	86.7	91.2	104.4	172.9	323.1	678.1	1236.5	1445.7	1510.5	1405.7
35°	69.4	73.7	80.9	93.6	161.3	310.9	678.1	1314.0	1547.4	1595.1	1465.2
37.5°	66.8	70.6	77.0	87.8	154.7	304.9	664.5	1388.7	1651.3	1691.2	1514.1
40°	65.5	68.5	74.6	83.3	152.0	298.0	644.8	1454.6	1752.8	1787.3	1559.8
42.5°	64.4	67.2	72.8	80.5	148.4	290.5	628.8	1507.5	1840.9	1869.4	1603.4
45°	63.9	66.8	73.0	81.9	141.2	280.5	623.5	1564.7	1913.4	1938.0	1650.6
47.5°	63.9	67.3	73.8	84.9	132.6	270.2	640.1	1640.2	1982.0	1994.0	1706.3
50°	63.4	67.2	76.3	81.9	120.1	257.1	679.3	1735.1	2056.2	2057.5	1776.7
52.5°	62.3	66.8	82.1	80.2	105.6	240.0	732.2	1857.1	2165.9	2174.1	1887.0
55°	61.1	66.3	80.5	76.3	93.8	219.5	775.5	2005.3	2320.2	2343.0	2049.1
57.5°	59.6	65.6	78.0	70.8	86.1	193.2	791.2	2113.9	2427.8	2485.2	2231.9
60°	58.2	65.1	70.4	67.5	81.2	171.1	760.9	2092.4	2420.5	2544.1	2393.8
62.5°	56.8	65.6	64.2	65.5	79.0	156.8	681.9	1920.4	2298.0	2483.3	2513.9
65°	55.3	61.0	60.6	63.7	78.5	151.2	565.3	1662.6	2061.3	2291.1	2542.2
67.5°	53.2	56.3	58.0	61.5	80.2	146.2	456.2	1371.5	1732.4	2003.1	2394.5
70°	51.0	53.6	55.5	58.8	79.2	143.9	379.4	1081.6	1374.6	1641.7	2103.1
72.5°	48.1	50.3	52.1	55.1	78.2	142.7	320.5	871.0	1026.3	1219.5	1709.9
75°	44.7	46.7	47.9	51.0	74.9	130.7	252.0	737.0	768.0	848.3	1361.9
77.5°	40.7	42.3	43.3	46.7	66.3	108.7	182.3	568.5	596.4	615.9	1044.1
80°	36.1	37.6	38.1	41.4	55.0	85.0	118.9	419.9	446.0	450.5	681.9
82.5°	30.7	32.3	32.3	35.4	45.0	61.1	78.0	287.7	292.9	308.0	482.0
85°	24.8	25.9	25.9	27.5	34.9	45.7	53.6	144.5	142.9	163.2	417.5
87.5°	17.7	18.6	19.4	19.8	24.9	30.2	32.3	44.0	29.0	33.3	268.1
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°	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7	1055.7
2.5°	1212.6	1222.4	1212.4	1205.3	1174.2	1148.6	1114.4	1096.8
5°	1303.5	1328.4	1320.0	1289.8	1224.8	1151.8	1068.9	1031.4
7.5°	1292.5	1350.4	1351.7	1295.3	1199.6	1092.1	979.7	926.5
10°	1207.0	1281.0	1302.1	1247.3	1145.8	1025.6	896.8	836.0
12.5°	1111.5	1183.9	1200.1	1181.2	1096.4	975.6	844.9	785.3
15°	1033.3	1065.8	1085.0	1101.5	1053.9	955.7	842.0	776.5
17.5°	985.7	982.1	987.7	1016.3	1024.4	978.5	886.6	814.5
20°	968.6	913.5	912.0	951.6	1010.5	1033.0	973.9	887.3
22.5°	978.0	888.7	877.4	924.3	1017.9	1111.5	1088.3	989.5
25°	1010.6	890.8	881.6	927.0	1044.6	1195.1	1211.8	1121.8
27.5°	1062.0	903.8	891.8	938.4	1080.2	1265.4	1333.4	1249.9
30°	1110.8	926.5	911.5	960.7	1112.7	1293.2	1408.0	1349.9
32.5°	1170.1	968.9	942.6	1001.7	1152.9	1337.5	1474.4	1432.7
35°	1228.1	1029.4	996.8	1065.1	1197.7	1392.7	1550.3	1538.5
37.5°	1291.8	1108.4	1081.4	1147.0	1259.0	1444.7	1647.2	1662.5
40°	1359.9	1213.2	1181.2	1266.6	1354.2	1510.0	1748.4	1785.1
42.5°	1428.4	1329.4	1291.3	1377.8	1458.8	1574.3	1834.9	1889.4
45°	1506.9	1455.7	1437.6	1531.2	1559.3	1635.7	1898.8	1966.5
47.5°	1598.3	1598.9	1628.0	1665.4	1660.6	1705.1	1963.1	2035.4
50°	1704.9	1777.7	1841.8	1866.7	1765.0	1779.6	2052.2	2127.6
52.5°	1833.0	1991.6	2070.9	2054.6	1877.5	1870.6	2193.4	2254.7
55°	1993.3	2218.0	2296.8	2285.1	2006.9	1994.6	2369.3	2405.0
57.5°	2178.8	2437.3	2509.8	2457.2	2162.1	2130.7	2514.8	2522.3
60°	2341.8	2611.1	2674.7	2616.4	2318.8	2275.5	2605.6	2569.0
62.5°	2432.5	2670.1	2714.7	2652.0	2426.1	2429.7	2625.5	2543.8
65°	2392.0	2521.1	2535.5	2530.4	2398.5	2519.2	2553.9	2427.2
67.5°	2170.0	2144.6	2168.8	2202.3	2161.5	2401.4	2355.5	2173.1
70°	1779.1	1639.4	1687.8	1710.2	1728.8	2066.5	2044.5	1770.0
72.5°	1340.8	1148.6	1186.7	1182.1	1267.9	1657.5	1590.0	1301.5
75°	950.0	778.8	783.6	781.7	884.7	1296.8	1151.3	890.4
77.5°	664.7	564.2	566.8	577.4	594.8	978.0	822.6	650.4
80°	457.1	428.2	442.5	443.3	412.2	657.0	607.7	522.0
82.5°	340.4	297.6	294.2	299.2	323.1	532.3	467.0	362.1
85°	278.8	176.2	141.7	177.6	286.3	527.2	310.2	191.0
87.5°	157.0	83.7	37.8	70.1	114.2	349.0	89.6	24.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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