

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: P299485

Luminaire Tested: **GLNA-AF-06-LED-E1-SLR-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299485
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-06-LED-E1-SLR-7027-600
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE
(6) 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: 17848.8 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

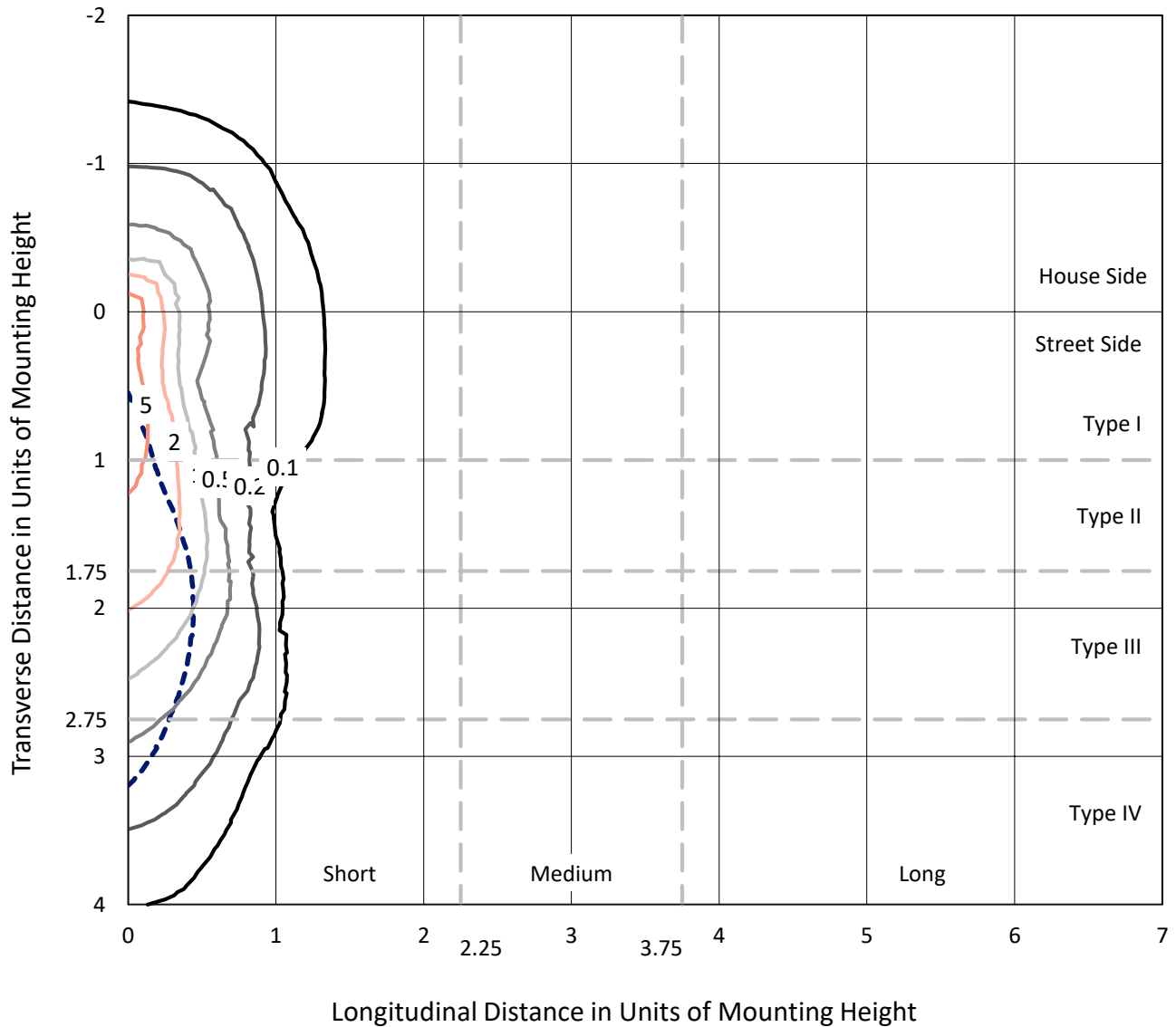
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

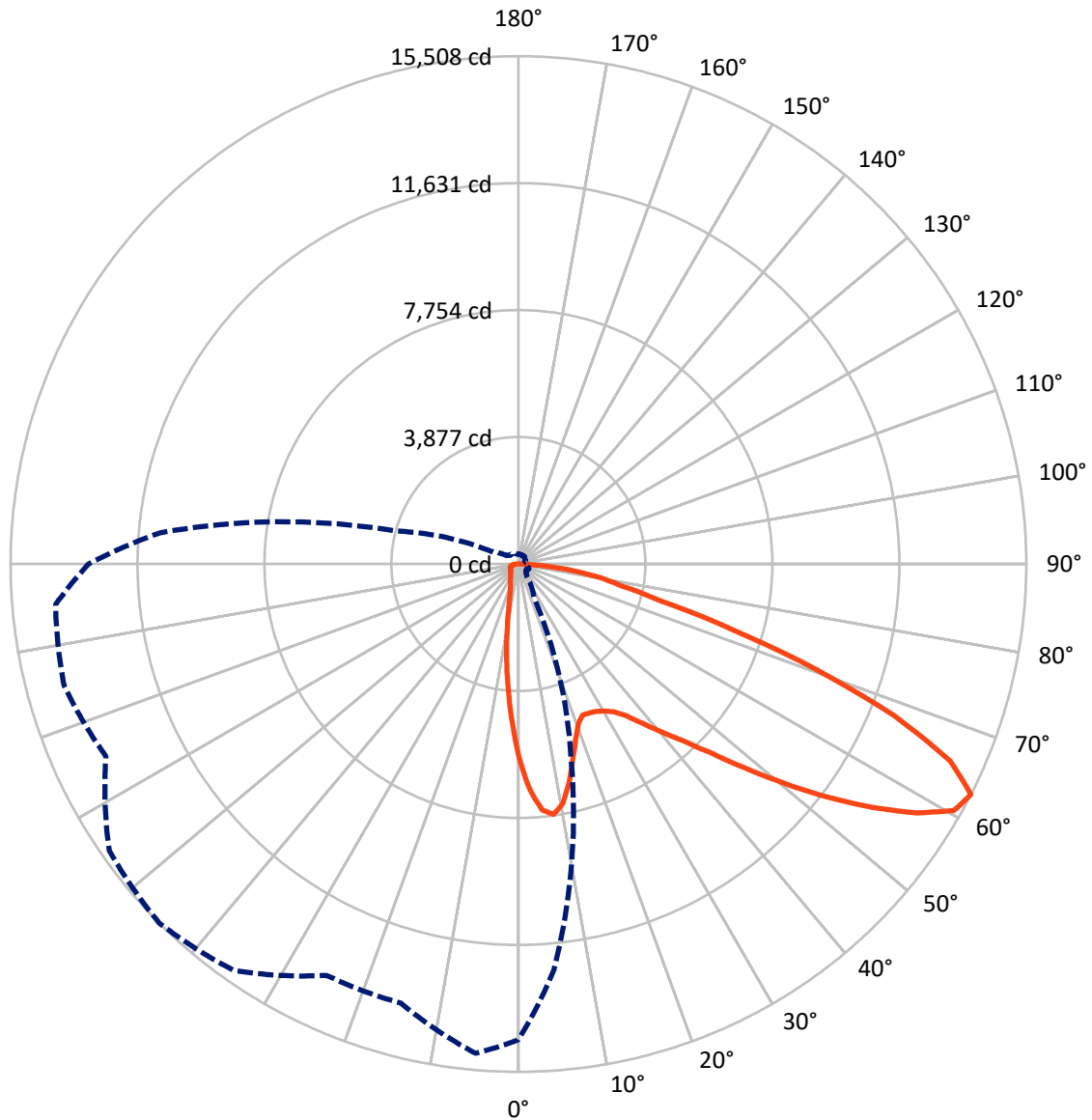
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	2953.7	0.0	2953.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	14895.0	0.0	14895.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	17848.8	0.0	17848.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.0	2.5
10°-20°	805.0	4.5
20°-30°	1173.6	6.6
30°-40°	1807.6	10.1
40°-50°	2660.3	14.9
50°-60°	3902.0	21.9
60°-70°	4361.9	24.4
70°-80°	2135.5	12.0
80°-90°	563.8	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°	17848.8	100.0
0°-180°	17848.8	100.0

Coefficient of Utilization



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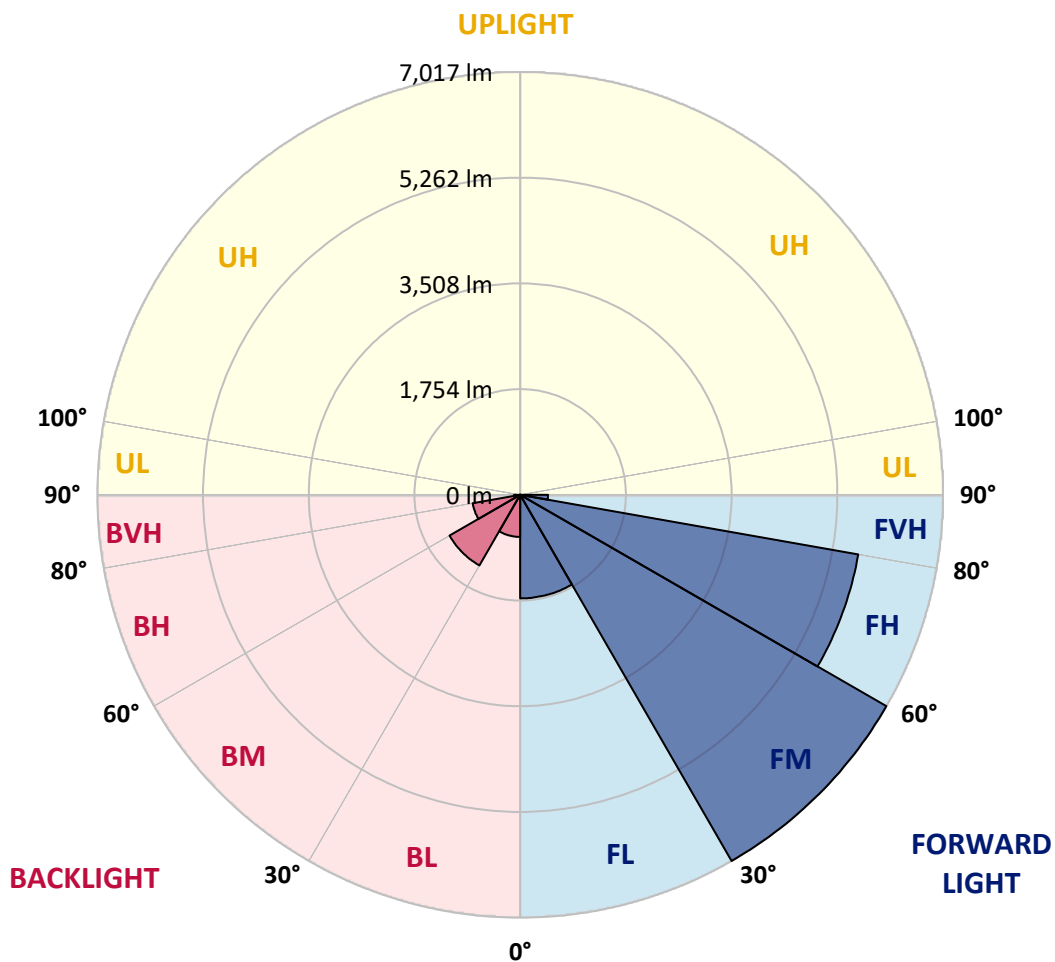
CATALOG NUMBER: GLNA-AF-06-LED-E1-SLR-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1718.8	9.6			
FM (30°-60°)	7016.5	39.3			
FH (60°-80°)	5696.7	31.9			G3/7500
FVH (80°-90°)	463.0	2.6			G3/500
BL (0°-30°)	698.8	3.9	B2/1000		
BM (30°-60°)	1353.4	7.6	B2/2500		
BH (60°-80°)	800.8	4.5	B2/1000		G2/1000
BVH (80°-90°)	100.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6030.4	6030.4	6030.4	6030.4	6030.4	6030.4	6030.4	6030.4	6030.4	6030.4	6030.4
2.5°	6265.6	6138.2	5926.1	5705.4	5571.2	5414.0	5291.4	5183.5	4967.6	4925.4	4963.7
5°	5892.0	5635.9	5236.4	4834.2	4566.3	4278.8	4055.1	3875.7	3601.8	3553.7	3611.6
7.5°	5292.5	4986.3	4458.5	3945.2	3566.5	3207.4	2966.2	2773.7	2559.8	2467.8	2473.4
10°	4775.4	4430.0	3805.9	3247.8	2937.7	2695.3	2492.1	2294.9	2078.0	1935.8	1896.6
12.5°	4485.8	4088.7	3369.3	2870.8	2583.3	2328.4	2109.5	1898.6	1667.0	1521.7	1480.7
15°	4435.9	4004.0	3205.6	2629.6	2269.3	1946.8	1688.6	1453.1	1214.6	1096.9	1072.3
17.5°	4652.7	4155.2	3152.4	2414.6	1974.1	1575.8	1258.8	996.0	801.7	742.9	737.8
20°	5068.6	4445.7	3145.6	2212.6	1682.7	1215.8	877.1	685.9	600.6	583.7	584.9
22.5°	5652.6	4896.0	3229.9	2060.5	1414.8	906.5	659.4	573.9	540.6	524.9	524.9
25°	6407.9	5516.2	3424.2	1949.7	1182.2	724.2	581.9	530.8	499.3	488.6	490.7
27.5°	7140.1	6119.5	3650.0	1862.4	1030.1	657.3	551.3	505.3	477.9	466.9	472.0
30°	7711.0	6655.3	3838.3	1743.6	952.6	638.6	562.3	515.1	475.8	459.2	460.1
32.5°	8183.9	7124.4	3996.3	1658.0	884.0	547.4	484.8	464.0	459.2	439.6	429.8
35°	8788.3	7635.5	4102.3	1660.1	851.6	488.6	431.6	395.4	368.9	346.3	346.3
37.5°	9496.8	8222.2	4215.2	1682.7	840.0	454.2	413.2	376.6	352.3	330.6	326.7
40°	10197.2	8797.2	4318.3	1704.4	832.9	433.7	398.3	365.1	342.5	320.8	314.9
42.5°	10793.0	9270.1	4410.4	1715.1	809.4	431.6	387.6	357.0	335.6	311.9	306.2
45°	11233.5	9666.4	4509.6	1731.7	786.0	439.6	387.6	356.1	329.7	307.1	301.2
47.5°	11626.8	10131.5	4675.3	1731.7	757.4	424.8	400.4	357.0	328.8	305.1	300.3
50°	12153.7	10769.3	4989.3	1691.6	717.3	409.0	421.8	353.2	319.9	301.2	295.3
52.5°	12879.7	11586.7	5487.7	1621.8	655.6	378.7	418.8	351.4	311.0	291.4	284.6
55°	13738.4	12461.8	6031.3	1540.4	563.2	357.0	404.3	346.3	301.2	279.5	272.7
57.5°	14408.5	13064.1	6413.8	1414.8	482.7	345.5	358.2	341.6	289.3	266.7	261.1
60°	14675.2	13040.7	6519.0	1246.9	443.5	335.6	313.1	382.6	279.5	256.9	250.1
62.5°	14531.2	12438.3	6224.6	1129.3	434.6	322.9	293.5	354.1	271.8	250.1	240.3
65°	13864.9	11370.7	5444.6	1097.8	460.1	310.1	280.7	277.7	261.1	240.3	230.5
67.5°	12413.6	9775.4	4359.3	1100.8	492.5	297.3	267.9	254.3	246.2	229.6	220.7
70°	10111.0	7728.8	3249.5	1108.8	509.1	282.5	254.3	239.4	230.5	213.9	207.9
72.5°	7434.5	5956.7	2360.8	1057.7	512.1	265.8	235.5	222.8	213.9	196.3	191.3
75°	5086.4	4556.5	1637.5	876.2	446.4	242.4	214.8	203.2	197.2	175.5	172.6
77.5°	3715.6	3420.3	1047.9	650.5	344.3	213.0	189.5	180.6	176.7	153.0	149.1
80°	2981.9	2706.0	655.6	445.6	252.2	178.5	158.9	154.2	150.0	126.5	123.6
82.5°	2068.2	1812.2	420.9	289.3	189.5	138.4	125.6	123.6	117.6	96.2	93.3
85°	1091.0	984.1	266.7	197.2	137.2	95.1	87.3	87.3	84.4	63.9	61.8
87.5°	139.3	226.6	135.4	103.1	75.4	42.2	42.2	41.3	44.3	36.2	31.5
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°	6030.4	6030.4	6030.4	6030.4	6030.4	6030.4	6030.4	6030.4	6030.4	6030.4	6030.4
2.5°	4873.4	4920.7	4875.5	4878.5	4928.4	5077.5	5145.2	5201.1	5261.1	5300.3	5317.8
5°	3532.3	3642.2	3679.4	3757.8	3873.6	4064.0	4139.5	4194.4	4230.9	4252.3	4261.2
7.5°	2415.8	2482.3	2556.9	2683.4	2935.6	3047.6	3097.5	3084.7	3043.7	3028.9	3014.3
10°	1821.1	1794.7	1780.7	1850.5	2054.6	2167.5	2202.8	2168.3	2145.8	2150.8	2175.2
12.5°	1410.9	1364.9	1309.0	1301.0	1435.6	1536.6	1559.1	1560.9	1602.2	1638.4	1692.5
15°	1028.3	1023.3	996.0	979.3	1055.7	1138.2	1148.0	1165.6	1203.0	1229.4	1276.4
17.5°	725.1	751.5	773.2	783.9	841.8	900.6	889.9	881.0	874.2	874.2	896.7
20°	584.9	602.4	630.0	661.2	720.3	761.3	734.9	699.5	674.0	666.2	669.2
22.5°	526.9	540.6	556.3	583.7	636.8	665.4	636.8	611.3	585.8	576.8	573.9
25°	497.5	515.1	529.9	550.4	589.6	609.2	581.9	563.2	547.4	536.7	528.7
27.5°	480.9	496.3	500.5	510.3	543.6	561.1	547.4	539.7	529.9	520.1	510.3
30°	463.1	460.1	453.3	454.2	480.9	498.4	497.5	499.3	498.4	495.5	493.7
32.5°	423.0	417.0	411.1	417.0	441.4	457.1	458.3	462.2	462.2	461.3	469.0
35°	352.3	363.0	369.8	387.6	417.0	430.7	424.8	415.0	397.4	386.4	385.5
37.5°	325.8	327.6	339.5	363.9	396.5	409.0	400.4	377.8	365.9	363.9	366.8
40°	313.1	314.9	321.7	344.3	376.6	389.4	381.7	365.1	354.1	353.2	358.2
42.5°	304.2	306.2	310.1	325.8	352.3	368.0	368.9	357.0	344.3	345.5	350.2
45°	299.1	300.3	299.1	307.1	331.5	350.2	358.2	350.2	339.5	341.6	347.2
47.5°	298.2	295.3	291.4	293.5	319.0	337.4	347.2	344.3	339.5	341.6	346.3
50°	294.4	287.5	282.5	281.6	307.1	326.7	335.6	335.6	337.4	341.6	346.3
52.5°	282.5	274.8	274.8	271.8	299.1	317.8	323.8	324.7	327.6	334.5	341.6
55°	267.9	265.0	267.9	262.9	293.5	311.0	314.0	316.0	317.8	323.8	333.6
57.5°	255.2	251.3	258.1	256.0	288.4	304.2	304.2	308.0	308.0	316.0	323.8
60°	248.3	240.3	243.3	245.3	281.6	298.2	296.4	300.3	302.1	309.2	314.9
62.5°	239.4	232.6	232.6	237.3	273.9	289.3	288.4	291.4	299.1	301.2	307.1
65°	228.7	225.7	222.8	228.7	265.8	279.5	280.7	284.6	291.4	293.5	298.2
67.5°	217.7	218.9	213.0	218.9	259.0	269.7	269.7	277.7	280.7	284.6	289.3
70°	206.1	207.0	202.0	209.1	254.3	259.0	258.1	268.8	270.9	273.9	278.6
72.5°	191.3	191.3	189.5	199.3	246.2	248.3	246.2	255.2	256.0	259.0	261.1
75°	175.5	175.5	173.8	187.4	241.5	236.4	230.5	237.3	239.4	241.5	241.5
77.5°	155.1	157.1	157.1	173.8	224.6	231.7	211.8	215.9	218.9	219.8	216.8
80°	129.5	134.6	136.3	158.0	188.3	213.9	189.5	192.2	193.4	193.4	189.5
82.5°	99.2	107.8	112.9	136.3	144.4	179.4	164.9	167.8	164.9	158.9	157.1
85°	68.6	80.5	86.4	104.0	109.0	138.4	137.2	137.2	131.6	123.6	122.7
87.5°	37.4	44.3	48.1	61.8	74.6	93.3	101.0	98.0	93.3	88.2	89.4
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	6030.4	6030.4	6030.4	6030.4	6030.4	6030.4	6030.4	6030.4	6030.4	6030.4	6030.4
2.5°	5410.2	5543.5	5756.5	5919.3	6083.3	6241.3	6412.1	6542.5	6653.3	6696.6	6827.9
5°	4350.7	4517.3	4718.4	5081.4	5338.6	5622.0	5949.9	6383.6	6550.2	6781.0	7158.5
7.5°	3076.1	3227.0	3550.7	3844.2	4208.4	4609.7	5051.9	5650.5	5869.4	6239.2	6854.4
10°	2297.0	2472.5	2732.4	2979.8	3300.6	3710.8	4219.1	4888.3	5154.1	5555.4	6263.8
12.5°	1850.5	2057.6	2333.2	2565.8	2814.1	3103.4	3597.1	4330.8	4687.2	5038.3	5754.4
15°	1421.6	1638.4	1894.8	2190.0	2463.6	2775.8	3292.9	4095.5	4505.4	4871.7	5482.6
17.5°	984.1	1169.4	1492.3	1800.3	2150.8	2550.0	3208.6	4145.4	4634.9	5057.0	5529.9
20°	697.7	803.5	1068.4	1425.8	1862.4	2363.5	3192.8	4408.3	5045.1	5526.9	5832.0
22.5°	586.6	625.9	780.0	1107.6	1612.0	2224.2	3247.8	4777.2	5598.5	6213.6	6313.7
25°	534.7	558.4	638.6	869.4	1389.2	2123.2	3433.1	5326.7	6283.5	6900.7	6882.9
27.5°	506.1	530.8	583.7	734.0	1221.7	2060.5	3618.5	5978.4	7066.4	7646.2	7426.4
30°	497.5	530.8	586.6	691.8	1102.0	1961.3	3770.5	6550.2	7668.8	8149.7	7673.9
32.5°	490.7	495.5	521.0	596.4	987.9	1845.5	3873.6	7063.5	8258.4	8628.5	8030.0
35°	396.5	420.9	462.2	534.7	921.4	1776.0	3873.6	7506.0	8839.4	9112.1	8369.5
37.5°	381.7	403.4	439.6	501.4	884.0	1741.5	3796.1	7932.9	9432.9	9660.7	8649.0
40°	374.0	391.5	425.9	475.8	868.2	1702.3	3683.2	8309.5	10012.7	10209.9	8910.1
42.5°	368.0	383.8	416.1	460.1	847.7	1659.2	3592.0	8611.6	10516.2	10679.0	9159.3
45°	365.1	381.7	417.0	468.1	806.4	1602.2	3561.7	8938.3	10930.2	11070.4	9429.0
47.5°	365.1	384.7	421.8	484.8	757.4	1543.4	3656.8	9369.3	11321.7	11390.4	9746.9
50°	362.1	383.8	435.7	468.1	685.9	1468.8	3880.4	9911.7	11745.6	11753.3	10149.3
52.5°	356.1	381.7	469.0	458.3	603.3	1370.8	4182.8	10608.6	12372.6	12419.6	10779.1
55°	349.3	378.7	460.1	435.7	535.8	1254.1	4430.0	11455.1	13253.6	13384.0	11705.5
57.5°	340.4	374.9	445.6	404.3	491.6	1103.8	4519.4	12075.3	13868.8	14196.4	12749.3
60°	332.7	371.9	402.2	385.5	464.0	977.2	4346.5	11952.6	13826.6	14533.0	13674.5
62.5°	324.7	374.9	366.8	374.0	451.2	895.9	3895.3	10970.3	13127.1	14185.7	14360.4
65°	316.0	348.4	346.3	363.9	448.5	863.5	3229.1	9497.7	11775.0	13087.9	14522.3
67.5°	304.2	321.7	331.5	351.4	458.3	835.0	2605.9	7834.6	9896.0	11442.3	13678.4
70°	291.4	306.2	316.9	335.6	452.4	822.2	2167.5	6178.3	7852.4	9377.9	12013.5
72.5°	274.8	287.5	297.3	314.9	446.4	815.4	1830.9	4975.6	5862.6	6966.3	9767.7
75°	255.2	266.7	273.9	291.4	427.7	746.7	1439.4	4210.2	4386.9	4846.1	7779.6
77.5°	232.6	241.5	247.1	266.7	378.7	621.1	1041.1	3247.8	3406.7	3518.4	5964.4
80°	206.1	214.8	217.7	236.4	314.0	485.7	679.0	2398.8	2548.0	2573.5	3895.3
82.5°	175.5	184.5	184.5	202.0	256.9	349.3	445.6	1643.5	1672.9	1759.3	2753.2
85°	141.4	148.2	148.2	157.1	199.3	261.1	306.2	825.2	816.2	932.1	2385.2
87.5°	101.0	106.0	110.8	112.9	142.3	172.6	184.5	251.3	165.7	190.4	1531.5
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	6030.4	6030.4	6030.4	6030.4	6030.4	6030.4	6030.4	6030.4
2.5°	6927.1	6983.0	6925.9	6884.9	6707.3	6561.2	6365.7	6265.6
5°	7446.0	7588.3	7540.2	7367.6	6996.6	6579.6	6105.8	5892.0
7.5°	7383.4	7714.0	7721.7	7399.1	6852.6	6238.3	5596.7	5292.5
10°	6894.7	7317.4	7438.3	7125.2	6545.4	5858.7	5122.6	4775.4
12.5°	6349.1	6763.2	6855.5	6747.4	6263.0	5572.9	4826.5	4485.8
15°	5902.7	6088.3	6197.9	6292.4	6020.6	5459.2	4809.6	4435.9
17.5°	5630.9	5610.4	5641.9	5805.5	5851.6	5589.6	5064.7	4652.7
20°	5532.8	5218.0	5210.0	5435.7	5772.3	5900.9	5563.1	5068.6
22.5°	5586.9	5076.6	5011.9	5279.8	5814.4	6349.1	6216.6	5652.6
25°	5773.1	5088.5	5036.2	5295.5	5967.4	6827.0	6922.1	6407.9
27.5°	6066.6	5163.0	5094.1	5360.3	6170.6	7228.3	7616.8	7140.1
30°	6345.2	5292.5	5207.0	5487.7	6355.9	7387.2	8042.8	7711.0
32.5°	6683.9	5534.9	5384.6	5722.1	6585.5	7640.3	8422.4	8183.9
35°	7015.3	5880.1	5693.8	6084.1	6841.6	7955.5	8856.1	8788.3
37.5°	7379.5	6331.6	6177.4	6552.3	7192.1	8252.5	9409.4	9496.8
40°	7768.0	6930.1	6747.4	7235.1	7735.6	8625.6	9987.5	10197.2
42.5°	8159.5	7594.3	7376.5	7870.8	8333.0	8993.3	10481.7	10793.0
45°	8607.7	8315.5	8212.4	8747.0	8907.2	9343.8	10846.8	11233.5
47.5°	9129.9	9133.8	9299.5	9513.4	9486.1	9740.0	11213.9	11626.8
50°	9739.1	10155.0	10521.2	10663.2	10082.5	10166.0	11723.0	12153.7
52.5°	10471.0	11376.7	11830.0	11736.7	10725.3	10685.8	12529.5	12879.7
55°	11386.5	12670.0	13120.3	13053.4	11464.0	11394.2	13534.3	13738.4
57.5°	12446.0	13922.9	14336.9	14036.6	12351.0	12171.6	14365.4	14408.5
60°	13377.2	14915.8	15278.8	14946.1	13245.9	12998.5	14884.4	14675.2
62.5°	13895.2	15252.4	15507.5	15149.3	13859.0	13879.5	14998.1	14531.2
65°	13663.8	14401.7	14484.0	14454.6	13701.0	14390.7	14589.1	13864.9
67.5°	12396.1	12250.9	12389.3	12580.6	12347.1	13717.6	13455.6	12413.6
70°	10163.0	9365.2	9641.1	9769.4	9875.5	11804.4	11678.8	10111.0
72.5°	7659.0	6561.2	6778.9	6752.5	7242.9	9468.2	9082.7	7434.5
75°	5426.8	4448.7	4476.0	4465.3	5054.0	7407.7	6576.9	5086.4
77.5°	3797.0	3223.1	3238.0	3298.6	3397.8	5586.9	4698.8	3715.6
80°	2610.9	2446.1	2527.5	2532.5	2354.9	3753.0	3471.4	2981.9
82.5°	1944.7	1700.2	1680.6	1709.1	1845.5	3040.7	2667.7	2068.2
85°	1592.4	1006.6	809.4	1014.7	1635.5	3011.3	1772.1	1091.0
87.5°	896.7	477.9	215.9	400.4	652.6	1993.7	512.1	139.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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