

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: P531981

Luminaire Tested: **GALN-SA7B-740-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531981
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-740-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21911 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

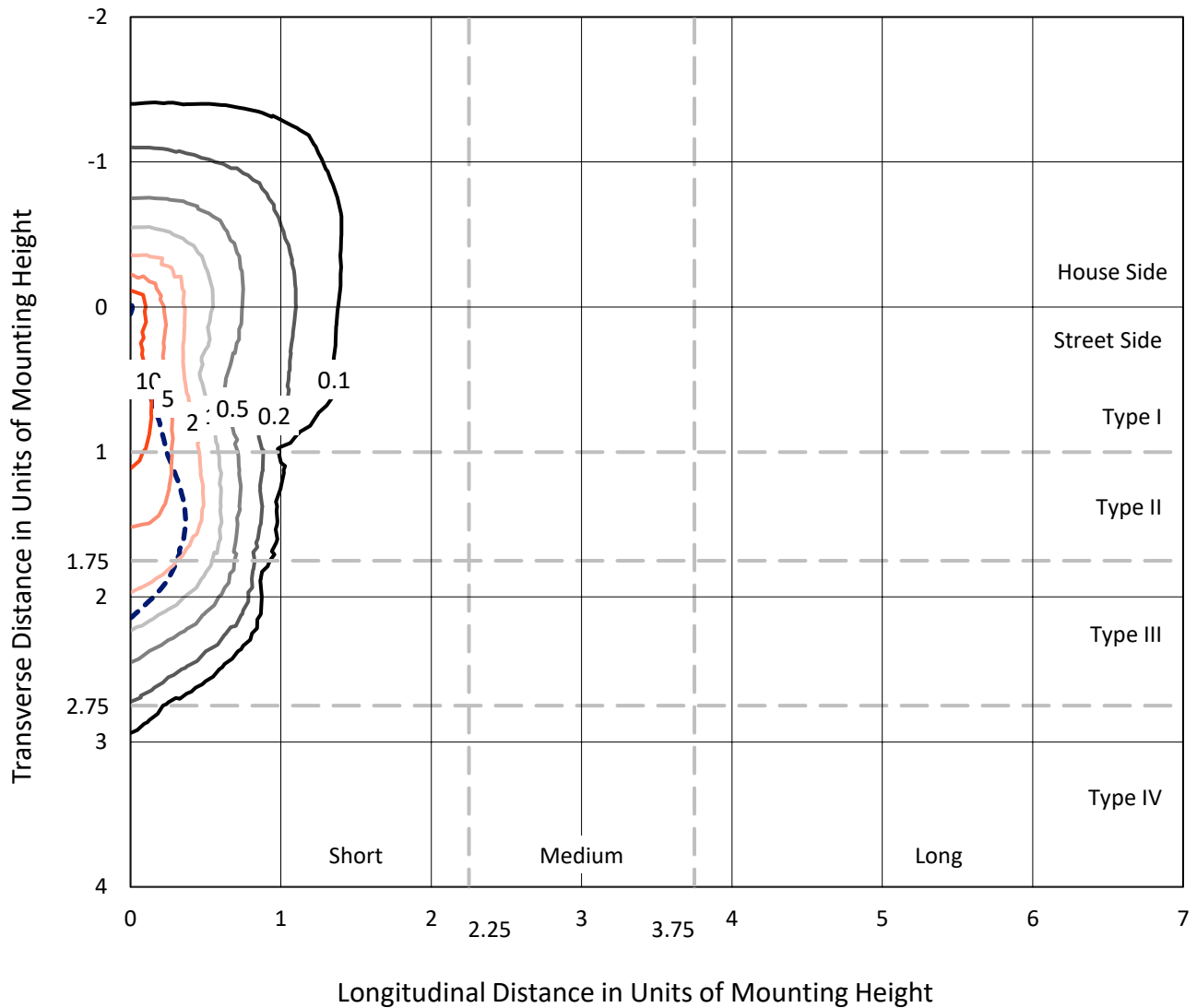
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

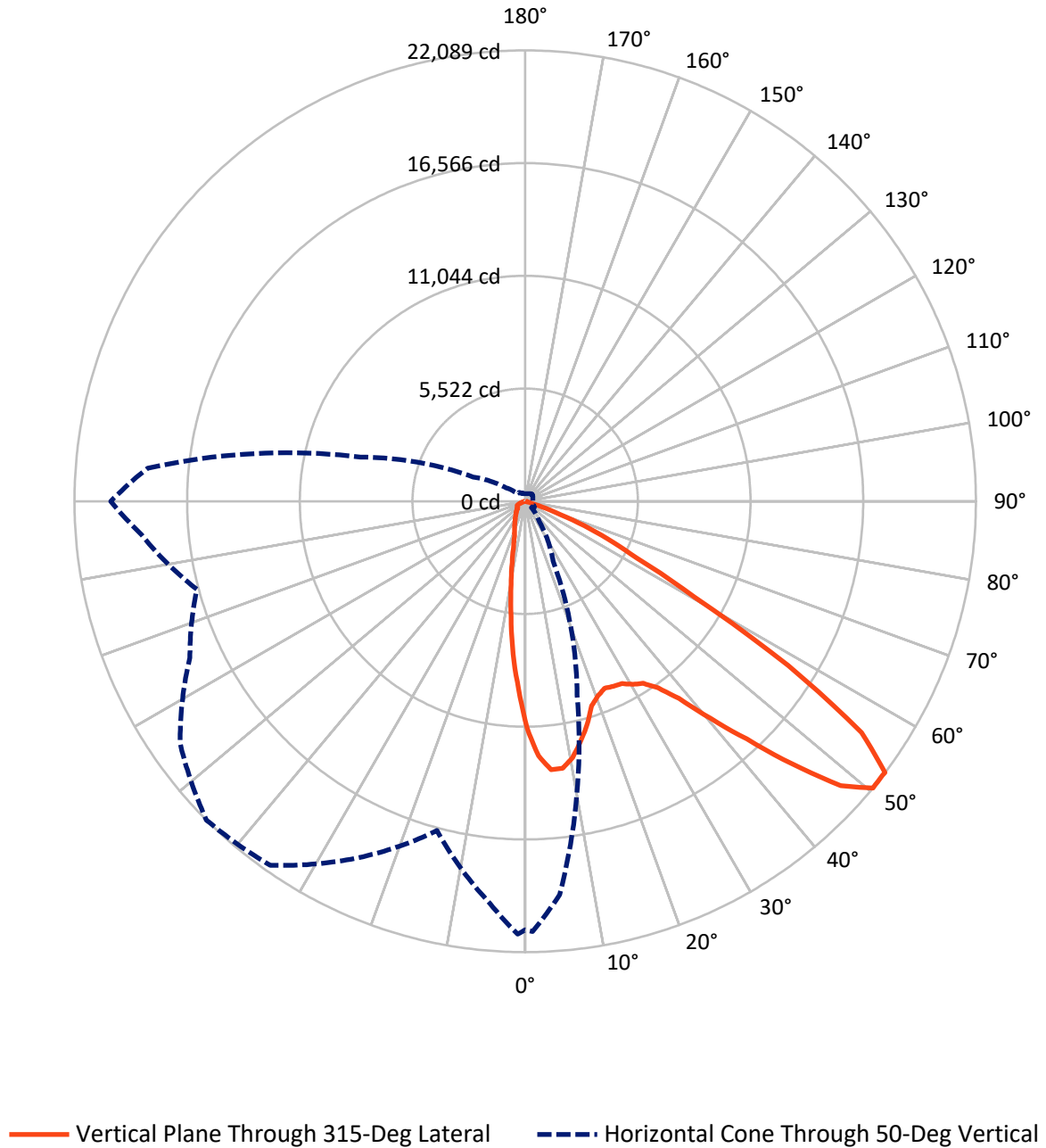
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4388.8	0.0	4388.8
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	17522.2	0.0	17522.2
	% Fixture	80.0	0.0	80.0
Total	Lumens	21911.0	0.0	21911.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	809.9	3.7
10°-20°	1609.7	7.3
20°-30°	2418.2	11.0
30°-40°	3629.7	16.6
40°-50°	5101.3	23.3
50°-60°	5502.6	25.1
60°-70°	2554.9	11.7
70°-80°	240.4	1.1
80°-90°	44.3	0.2
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°	21911.0	100.0
0°-180°	21911.0	100.0

Coefficient of Utilization

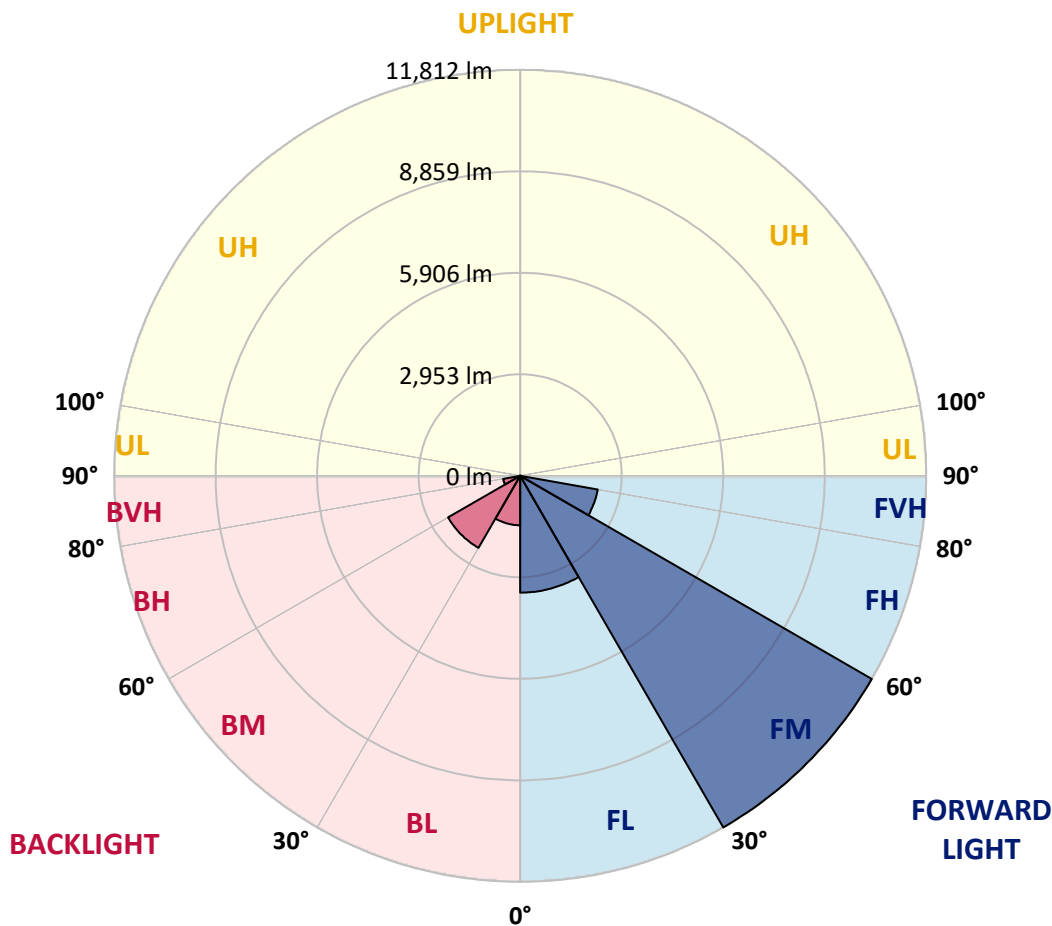


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3399.3	15.5			
FM (30°-60°)	11811.7	53.9			
FH (60°-80°)	2291.3	10.5			G2/5000
FVH (80°-90°)	20.0	0.1			G1/100
BL (0°-30°)	1438.5	6.6	B3/2500		
BM (30°-60°)	2422.0	11.1	B2/2500		
BH (60°-80°)	503.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	24.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11111.6	11111.6	11111.6	11111.6	11111.6	11111.6	11111.6	11111.6	11111.6	11111.6	11111.6
2.5°	11550.7	11372.5	11146.4	10959.5	10681.3	10120.5	9968.3	9785.7	9633.6	9429.2	9142.3
5°	10503.0	10446.5	10342.2	9637.9	9129.3	8451.1	7894.7	7659.9	7351.2	7099.1	6916.5
7.5°	9703.1	9477.1	9146.7	8438.1	7625.1	6899.1	6281.8	5921.0	5512.3	5373.2	5125.4
10°	8846.7	8898.9	8412.0	7416.5	6434.0	5847.1	5464.5	5116.7	4747.2	4503.8	4151.6
12.5°	8572.8	8403.3	8029.4	6799.1	5960.1	5412.4	4947.2	4516.8	4125.6	3734.3	3395.2
15°	8751.1	8490.2	7968.6	6668.7	5594.9	4912.4	4329.9	3747.4	3386.5	2886.6	2534.5
17.5°	9390.1	9181.4	8481.5	6807.8	5408.0	4434.2	3569.1	2969.2	2417.1	1965.0	1786.7
20°	10455.2	10159.6	9281.4	6986.1	5129.8	3856.0	2895.3	2156.2	1634.6	1443.3	1343.3
22.5°	11498.5	11337.7	10229.1	7329.5	4882.0	3343.1	2173.6	1452.0	1221.6	1186.8	1121.6
25°	13485.3	13002.7	11676.8	7951.2	4690.7	2860.5	1638.9	1169.4	1034.7	1008.6	1017.3
27.5°	14667.7	14263.4	13015.7	8364.2	4477.7	2491.0	1386.8	1073.8	982.5	926.0	904.2
30°	15802.4	15332.8	13680.9	8607.6	4021.2	2099.7	1230.3	1030.3	1008.6	926.0	899.9
32.5°	16676.2	16215.3	14641.6	8972.8	3834.3	1847.6	1012.9	804.2	747.7	739.0	817.3
35°	18015.1	17523.9	15463.3	9172.8	3690.8	1717.2	878.1	717.3	652.1	626.0	630.4
37.5°	19262.8	18928.0	16224.0	9251.0	3538.7	1678.0	786.9	643.4	586.9	569.5	565.1
40°	20306.1	19558.4	16945.7	9333.6	3473.5	1604.1	730.3	586.9	547.8	521.7	521.7
42.5°	20784.3	20023.6	17754.3	9285.8	3456.1	1486.8	730.3	539.1	508.6	482.5	478.2
45°	20680.0	20371.3	18115.1	9264.0	3456.1	1369.4	665.1	526.0	482.5	447.8	439.1
47.5°	20949.5	20545.2	18567.2	9355.3	3386.5	1286.8	560.8	552.1	456.5	413.0	404.3
50°	20997.3	21075.6	19354.1	9829.2	3234.4	1182.5	439.1	543.4	439.1	373.9	365.2
52°	21310.3	20823.5	19593.2	10081.3	3073.5	1104.2	369.5	465.2	421.7	347.8	339.1
52.5°	20880.0	21197.3	19649.7	10172.6	3090.9	1052.0	356.5	456.5	413.0	347.8	326.0
55°	20397.4	20701.7	19419.3	10368.3	2834.4	826.0	278.2	330.4	373.9	304.3	291.3
57.5°	17728.2	18036.9	16876.1	9494.5	2308.4	582.5	230.4	247.8	330.4	282.6	269.5
60°	15758.9	15537.2	14163.4	7920.7	1638.9	326.0	182.6	191.3	360.8	260.8	256.5
62.5°	14402.5	13928.7	11837.6	6116.6	999.9	217.4	143.5	147.8	278.2	243.4	243.4
65°	10655.2	10124.8	7864.2	3699.5	491.2	152.2	108.7	117.4	173.9	208.7	208.7
67.5°	6081.8	5877.5	3799.5	1669.4	204.3	95.6	82.6	91.3	134.8	169.5	160.8
70°	2795.3	2508.4	1460.7	352.1	95.6	65.2	65.2	73.9	108.7	126.1	117.4
72.5°	817.3	773.8	356.5	56.5	39.1	39.1	43.5	56.5	82.6	95.6	86.9
75°	60.9	39.1	26.1	17.4	17.4	26.1	34.8	56.5	82.6	91.3	73.9
77.5°	4.3	8.7	4.3	4.3	13.0	26.1	39.1	69.6	108.7	113.0	82.6
80°	4.3	4.3	0.0	4.3	13.0	26.1	43.5	78.3	121.7	130.4	69.6
82.5°	0.0	0.0	0.0	4.3	17.4	34.8	52.2	82.6	113.0	139.1	73.9
85°	0.0	0.0	0.0	4.3	26.1	47.8	60.9	21.7	13.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11111.6	11111.6	11111.6	11111.6	11111.6	11111.6	11111.6	11111.6	11111.6	11111.6	11111.6
2.5°	9346.6	9233.6	9190.1	9229.3	9216.2	9203.2	9442.3	9390.1	9381.4	9459.7	9442.3
5°	7016.5	6816.5	7364.3	7142.6	7373.0	7512.1	7538.2	7551.2	7712.1	7542.5	7764.2
7.5°	4999.4	5051.5	5047.2	5195.0	5460.2	5694.9	5834.0	5725.4	5716.7	5694.9	5599.3
10°	3995.1	3903.9	3886.5	3851.7	3934.3	4134.3	4303.8	4169.0	4073.4	4203.8	4164.7
12.5°	3264.8	3138.7	3069.2	2930.1	2934.4	3069.2	3069.2	3069.2	3164.8	3238.7	3295.2
15°	2504.0	2399.7	2399.7	2260.6	2230.2	2234.5	2304.1	2312.8	2464.9	2508.4	2530.1
17.5°	1752.0	1695.4	1760.6	1817.2	1782.4	1791.1	1817.2	1825.9	1847.6	1830.2	1873.7
20°	1347.7	1339.0	1356.4	1456.3	1530.2	1573.7	1543.3	1499.8	1473.7	1412.9	1412.9
22.5°	1143.3	1160.7	1191.2	1273.8	1369.4	1395.5	1360.7	1260.7	1182.5	1173.8	1178.1
25°	1017.3	1034.7	1082.5	1134.6	1186.8	1230.3	1195.5	1121.6	1078.1	1039.0	1039.0
27.5°	939.0	947.7	973.8	1012.9	1056.4	1091.2	1078.1	1039.0	991.2	973.8	934.7
30°	878.1	891.2	921.6	930.3	969.4	986.8	965.1	956.4	926.0	904.2	891.2
32.5°	847.7	843.4	865.1	873.8	878.1	891.2	865.1	878.1	873.8	839.0	826.0
35°	639.0	673.8	730.3	778.2	791.2	808.6	804.2	786.9	739.0	699.9	652.1
37.5°	573.8	595.6	626.0	665.1	717.3	739.0	730.3	686.9	630.4	604.3	595.6
40°	530.4	543.4	569.5	595.6	647.7	686.9	656.4	617.3	573.8	552.1	539.1
42.5°	491.2	495.6	508.6	534.7	573.8	634.7	582.5	530.4	513.0	499.9	491.2
45°	447.8	447.8	465.2	478.2	521.7	578.2	526.0	478.2	469.5	460.8	456.5
47.5°	413.0	417.3	426.0	443.4	478.2	517.3	482.5	443.4	421.7	417.3	408.6
50°	369.5	373.9	391.3	408.6	452.1	473.9	452.1	408.6	386.9	373.9	373.9
52°	334.7	347.8	365.2	399.9	430.4	465.2	439.1	391.3	365.2	352.1	343.4
52.5°	330.4	339.1	356.5	395.6	430.4	460.8	434.7	386.9	356.5	347.8	339.1
55°	295.6	308.7	339.1	386.9	426.0	460.8	426.0	382.6	339.1	317.4	308.7
57.5°	282.6	291.3	330.4	391.3	421.7	460.8	426.0	382.6	339.1	300.0	291.3
60°	269.5	286.9	330.4	378.2	417.3	465.2	430.4	378.2	330.4	282.6	282.6
62.5°	256.5	269.5	326.0	369.5	399.9	447.8	413.0	369.5	317.4	269.5	265.2
65°	221.7	243.4	286.9	308.7	343.4	386.9	352.1	321.7	278.2	239.1	234.8
67.5°	169.5	178.2	213.0	239.1	260.8	300.0	282.6	243.4	213.0	182.6	182.6
70°	117.4	126.1	152.2	165.2	186.9	208.7	195.6	165.2	143.5	126.1	121.7
72.5°	82.6	86.9	95.6	104.3	113.0	121.7	117.4	95.6	82.6	78.3	73.9
75°	65.2	73.9	78.3	73.9	69.6	65.2	65.2	56.5	47.8	43.5	43.5
77.5°	65.2	69.6	65.2	56.5	47.8	43.5	39.1	34.8	26.1	21.7	26.1
80°	56.5	56.5	56.5	47.8	43.5	39.1	34.8	30.4	26.1	21.7	21.7
82.5°	60.9	60.9	56.5	47.8	47.8	39.1	39.1	34.8	30.4	21.7	21.7
85°	0.0	0.0	0.0	8.7	21.7	39.1	39.1	34.8	30.4	26.1	26.1
87.5°	0.0	0.0	0.0	0.0	4.3	8.7	17.4	21.7	26.1	26.1	26.1
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	11111.6	11111.6	11111.6	11111.6	11111.6	11111.6	11111.6	11111.6	11111.6	11111.6	11111.6
2.5°	9598.8	9764.0	10077.0	10390.0	10581.3	10807.3	11216.0	11433.3	11715.9	11855.0	12128.9
5°	7733.8	8125.1	8264.2	8620.6	9003.2	9385.8	9994.4	10663.9	11220.3	11602.9	12098.5
7.5°	5642.8	5734.1	6273.1	6512.2	7138.2	7833.8	8664.1	9507.5	10211.8	10837.8	11216.0
10°	4229.9	4564.6	4903.7	5360.2	5864.5	6581.8	7377.3	8307.6	9220.6	9846.6	10324.8
12.5°	3399.6	3664.8	4116.9	4608.1	5229.8	5703.6	6503.5	7425.1	8607.6	9220.6	9850.9
15°	2573.6	2912.7	3425.7	3934.3	4590.7	5090.7	5899.3	7060.0	8581.5	9424.9	9968.3
17.5°	1908.5	2138.9	2599.7	3169.2	3838.6	4542.9	5634.1	7020.9	8872.8	9877.0	10437.8
20°	1460.7	1538.9	1830.2	2338.8	3064.8	3986.5	5203.7	7190.4	9733.6	10976.9	11546.4
22.5°	1182.5	1217.2	1330.3	1682.4	2386.7	3499.6	4999.4	7307.8	10703.0	12294.1	13054.9
25°	1030.3	1021.6	1095.5	1247.7	1865.0	3043.1	4738.5	7751.2	11889.8	13841.7	14524.3
27.5°	939.0	939.0	973.8	1082.5	1547.6	2747.5	4573.3	8068.5	13085.3	15202.4	15571.9
30°	891.2	899.9	999.9	1034.7	1286.8	2395.3	4299.5	8390.2	14228.6	16071.9	16580.5
32.5°	826.0	791.2	769.5	856.4	1082.5	2078.0	4025.6	8525.0	15154.6	17137.0	17571.7
35°	634.7	617.3	643.4	708.6	930.3	1808.5	3721.3	8677.2	16219.7	18371.6	18458.5
37.5°	573.8	569.5	586.9	643.4	782.5	1573.7	3503.9	8638.0	17032.6	19393.2	19158.4
40°	530.4	530.4	543.4	591.2	699.9	1408.5	3277.8	8603.3	17819.5	20540.9	19854.0
42.5°	495.6	495.6	517.3	547.8	665.1	1299.8	3108.3	8555.4	18480.3	21245.1	20262.7
45°	447.8	460.8	495.6	526.0	673.8	1225.9	2982.2	8372.9	18706.3	21236.4	20067.0
47.5°	413.0	430.4	465.2	508.6	608.6	1204.2	2895.3	8212.0	18628.1	20714.8	19454.1
50°	373.9	395.6	443.4	517.3	517.3	1160.7	2804.0	8355.5	18571.6	20310.5	18867.2
52°	347.8	365.2	426.0	504.3	452.1	1069.4	2747.5	8633.7	18802.0	20258.3	18606.3
52.5°	343.4	356.5	413.0	495.6	430.4	1052.0	2708.4	8698.9	18875.9	20127.9	18784.6
55°	304.3	321.7	378.2	386.9	352.1	865.1	2582.3	8846.7	18510.7	19871.4	18615.0
57.5°	286.9	295.6	334.7	317.4	304.3	652.1	2221.5	8616.3	16441.4	17649.9	17319.5
60°	265.2	273.9	313.0	247.8	256.5	456.5	1669.4	7481.7	13202.7	14706.8	15302.4
62.5°	256.5	252.1	295.6	200.0	217.4	330.4	1178.1	6081.8	10172.6	12107.2	13137.5
65°	226.1	221.7	213.0	169.5	186.9	256.5	704.3	3969.1	7168.7	9159.7	9724.9
67.5°	173.9	182.6	156.5	134.8	156.5	200.0	391.3	1778.0	3760.4	5495.0	5951.4
70°	121.7	130.4	126.1	117.4	139.1	165.2	226.1	608.6	1556.3	2886.6	3182.2
72.5°	73.9	91.3	95.6	100.0	121.7	143.5	160.8	195.6	413.0	1021.6	1269.4
75°	43.5	60.9	73.9	86.9	100.0	121.7	134.8	139.1	143.5	191.3	308.7
77.5°	30.4	43.5	65.2	82.6	100.0	121.7	143.5	152.2	143.5	134.8	143.5
80°	26.1	43.5	60.9	78.3	104.3	126.1	143.5	143.5	139.1	121.7	130.4
82.5°	26.1	43.5	65.2	82.6	100.0	121.7	139.1	143.5	130.4	121.7	126.1
85°	30.4	47.8	69.6	86.9	108.7	100.0	91.3	73.9	69.6	56.5	60.9
87.5°	30.4	43.5	43.5	47.8	52.2	52.2	52.2	47.8	39.1	34.8	34.8
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°	11111.6	11111.6	11111.6	11111.6	11111.6	11111.6	11111.6	11111.6	11111.6	11111.6
2.5°	12141.9	12489.7	12476.7	12485.4	12433.2	12081.1	11911.5	11481.2	11602.9	11550.7
5°	12607.1	12950.5	13246.2	13211.4	12811.4	12333.2	11624.6	10955.1	10772.6	10503.0
7.5°	12141.9	12967.9	13241.8	13202.7	12611.4	11998.5	10868.2	10198.7	9881.4	9703.1
10°	11402.9	12359.3	12698.4	12768.0	12368.0	11437.7	10398.7	9324.9	9155.4	8846.7
12.5°	10981.2	11676.8	11885.5	12072.4	11933.3	11237.7	10042.2	9011.9	8777.2	8572.8
15°	10637.8	11050.8	11137.7	11350.7	11433.3	11059.5	10229.1	9351.0	8772.8	8751.1
17.5°	10955.1	10785.6	10468.2	10533.5	10794.3	11063.8	10711.7	10020.5	9459.7	9390.1
20°	11481.2	10733.4	10016.1	10177.0	10394.3	11220.3	11442.0	10955.1	10633.4	10455.2
22.5°	12085.4	10824.7	9872.7	9950.9	10363.9	11572.5	12624.5	12355.0	11755.0	11498.5
25°	13202.7	11076.9	9985.7	10037.9	10603.0	12063.7	13693.9	13893.9	13537.4	13485.3
27.5°	14293.8	11729.0	10233.5	10116.1	10724.7	12541.9	14341.7	15415.4	14789.4	14667.7
30°	14850.3	12259.3	10603.0	10403.0	11229.0	12833.2	14732.9	16406.6	15858.9	15802.4
32.5°	15702.4	12741.9	10889.9	10633.4	11511.6	13194.0	15463.3	17489.1	16958.7	16676.2
35°	16058.8	13267.9	11520.3	11220.3	12320.2	13698.3	15837.1	18454.2	18289.0	18015.1
37.5°	16745.7	13833.0	12263.7	12246.3	13298.3	14354.7	16511.0	19767.1	19736.6	19262.8
40°	16802.2	14450.3	13437.4	13985.2	14811.2	15498.0	17102.2	20132.2	20627.8	20306.1
42.5°	16889.2	15532.8	15467.6	15919.7	16628.3	16480.5	17123.9	20219.2	20975.6	20784.3
45°	16928.3	16615.3	17532.6	18367.2	18662.9	17767.3	16919.6	20054.0	21158.2	20680.0
47.5°	16615.3	17545.6	19201.9	20814.8	20901.7	18558.5	16832.7	19884.4	21266.9	20949.5
50°	16658.8	18128.1	20645.2	22088.5	21771.2	19258.4	16697.9	19780.1	21210.4	20997.3
52°	16554.4	18141.2	20849.5	22062.4	21840.7	18871.5	16467.5	19380.2	21158.2	21310.3
52.5°	16671.8	18062.9	20636.5	22079.8	21792.9	19062.8	16437.1	19601.9	21188.6	20880.0
55°	16267.5	17132.6	19388.9	20001.8	19958.3	17302.2	15502.4	18867.2	20393.1	20397.4
57.5°	14702.5	14850.3	15206.8	15193.7	14993.8	13602.6	13259.2	17350.0	18180.3	17728.2
60°	12954.9	10872.5	9911.8	9520.5	9298.8	9072.8	11729.0	15871.9	15950.2	15758.9
62.5°	11194.2	7538.2	6260.1	6151.4	6203.6	7029.5	11337.7	15285.0	14815.5	14402.5
65°	9033.6	5495.0	4547.3	4403.8	4912.4	5803.6	9177.1	11720.3	10998.6	10655.2
67.5°	5673.2	4008.2	3073.5	2804.0	3417.0	3995.1	6029.7	7364.3	6555.7	6081.8
70°	3364.8	2238.8	1391.1	1247.7	1404.2	2130.2	3377.8	3673.4	3038.7	2795.3
72.5°	1325.9	821.6	386.9	330.4	343.4	747.7	1243.3	1212.9	917.3	817.3
75°	356.5	247.8	134.8	108.7	91.3	139.1	200.0	130.4	47.8	60.9
77.5°	165.2	147.8	117.4	91.3	69.6	52.2	26.1	8.7	8.7	4.3
80°	143.5	126.1	108.7	91.3	69.6	43.5	21.7	4.3	4.3	4.3
82.5°	134.8	117.4	100.0	82.6	65.2	43.5	21.7	4.3	0.0	0.0
85°	56.5	73.9	82.6	78.3	69.6	43.5	21.7	4.3	0.0	0.0
87.5°	30.4	26.1	21.7	17.4	13.0	8.7	8.7	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

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