

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: P652067

Luminaire Tested: **GALN-SA8A-840-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-840-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26769.9 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 244
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

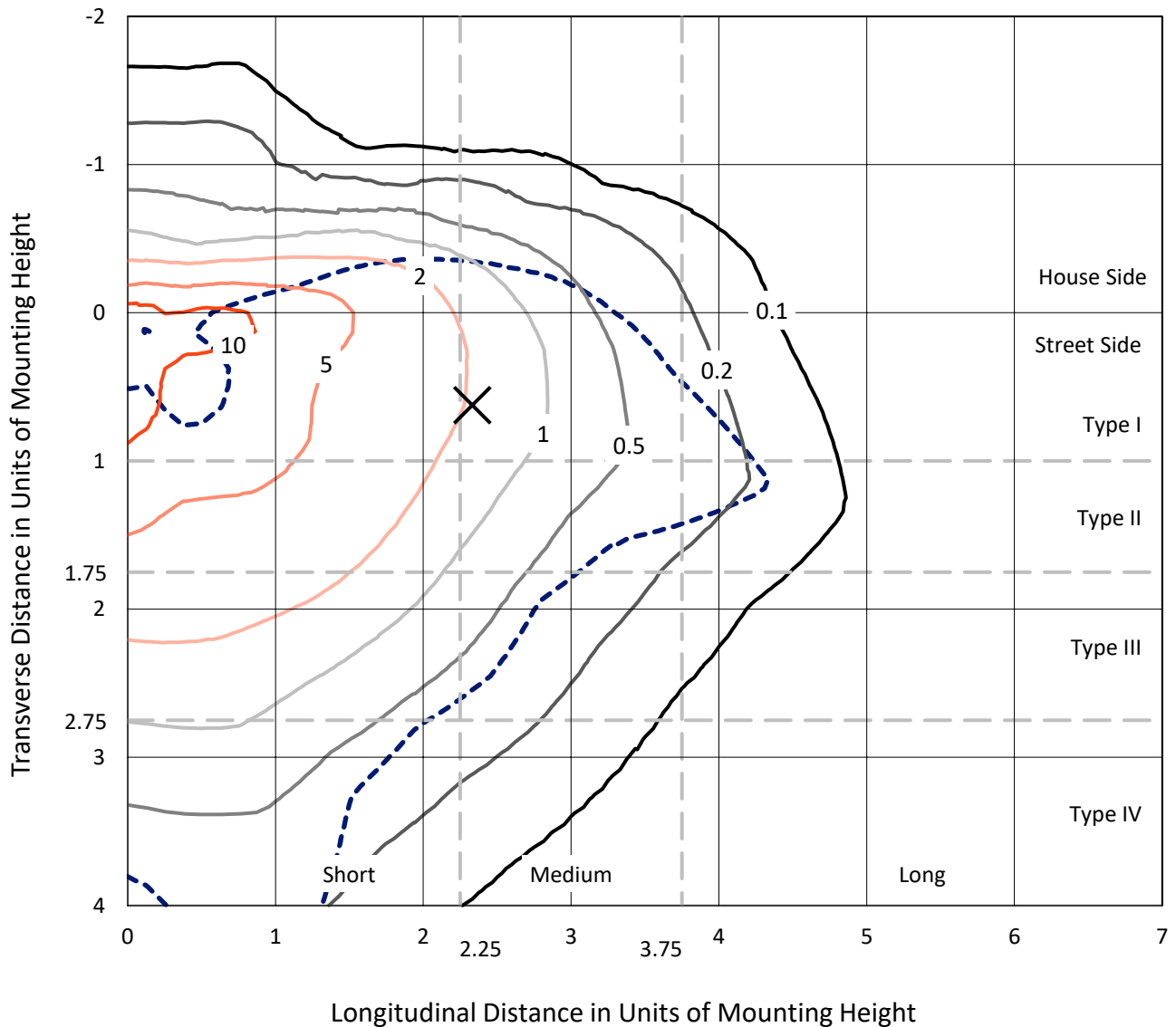




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Iso-Footcandle Lines of Horizontal Illumination

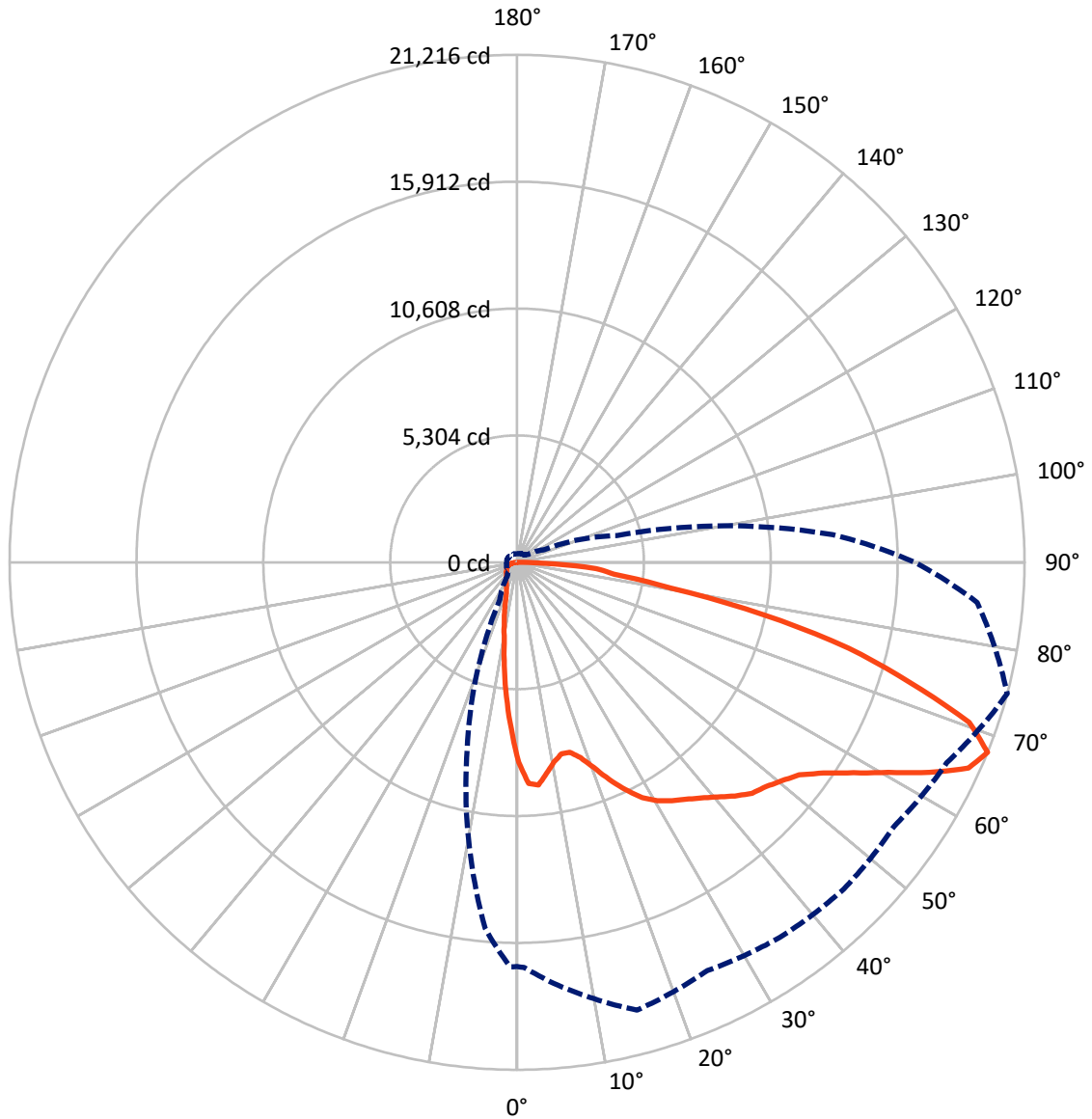
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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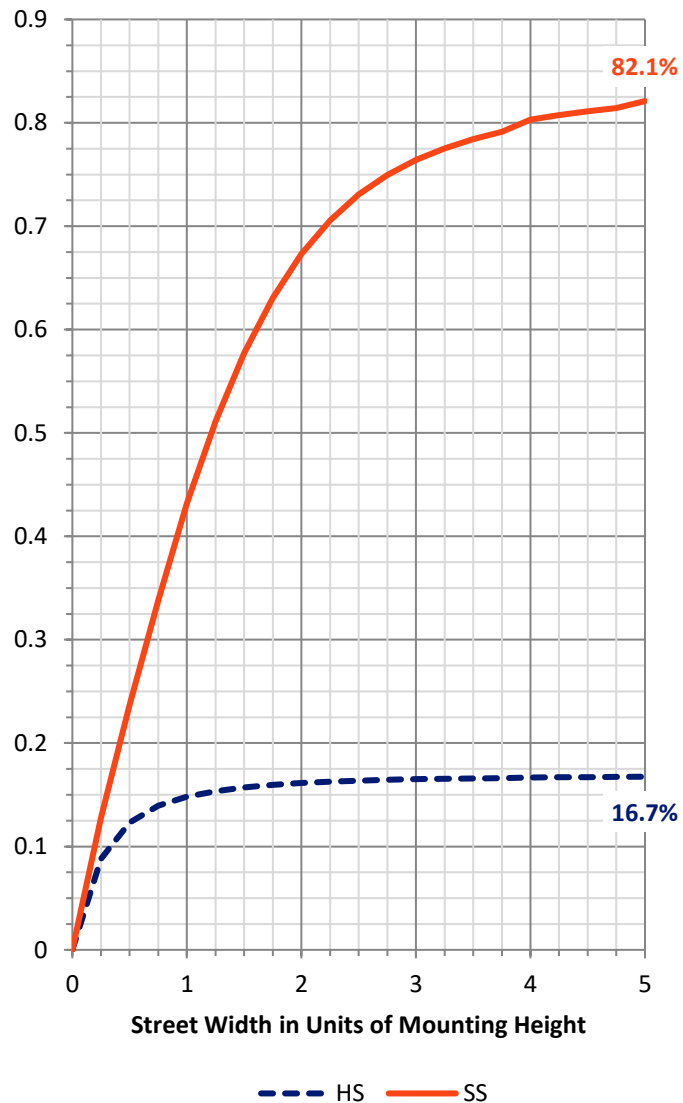
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4524.7	0.0	4524.7
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	22245.2	0.0	22245.2
	% Fixture	83.1	0.0	83.1
Total	Lumens	26769.9	0.0	26769.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	634.4	2.4
10°-20°	1323.0	4.9
20°-30°	1903.8	7.1
30°-40°	2741.9	10.2
40°-50°	3851.7	14.4
50°-60°	5371.7	20.1
60°-70°	6386.7	23.9
70°-80°	3761.4	14.1
80°-90°	795.4	3.0
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°	26769.9	100.0
0°-180°	26769.9	100.0

Coefficient of Utilization

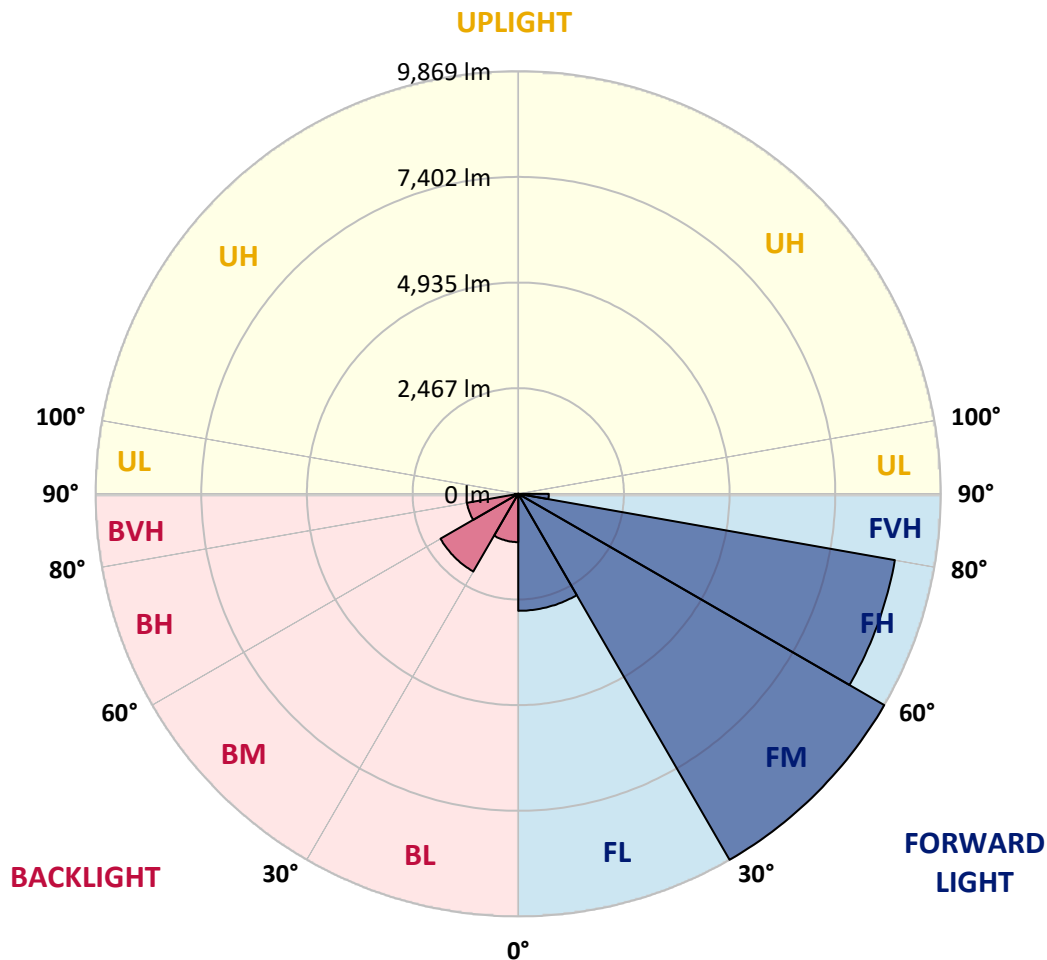


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2732.5	10.2			
FM (30°-60°)	9869.1	36.9			
FH (60°-80°)	8930.5	33.4			G4/12000
FVH (80°-90°)	713.1	2.7			G4/750
BL (0°-30°)	1128.6	4.2	B3/2500		
BM (30°-60°)	2096.3	7.8	B2/2500		
BH (60°-80°)	1217.5	4.5	B3/2500		G3/2500
BVH (80°-90°)	82.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8363.6	8363.6	8363.6	8363.6	8363.6	8363.6	8363.6	8363.6	8363.6	8363.6	8363.6
2.5°	9017.6	9029.6	9106.9	9331.7	9486.2	9542.9	9582.4	9508.5	9436.4	9261.3	8997.0
5°	8990.1	9060.5	9261.3	9766.0	10164.3	10336.0	10387.4	10166.0	9800.3	9350.7	8809.9
7.5°	8464.8	8559.3	8868.3	9714.6	10416.6	10818.4	10765.1	10365.2	9706.0	8904.3	8149.0
10°	7841.7	7946.4	8318.9	9342.0	10246.7	10799.4	10799.4	10311.9	9436.4	8483.7	7613.4
12.5°	7347.3	7457.1	7882.9	8959.3	9893.1	10416.6	10504.2	10085.4	9242.5	8217.7	7261.4
15°	7184.2	7290.6	7749.0	8727.5	9518.9	9838.2	9867.4	9730.0	9148.1	8236.5	7246.0
17.5°	7386.8	7524.1	7987.6	8796.1	9175.5	9194.4	9216.7	9324.8	9158.3	8581.6	7558.4
20°	7972.2	8119.8	8603.9	9017.6	8875.1	8679.4	8691.4	8969.5	9280.3	9151.5	8305.2
22.5°	8816.7	8945.5	9441.6	9407.3	8748.1	8344.7	8260.6	8648.5	9460.5	9862.2	9100.0
25°	9728.3	9879.3	10449.3	9985.8	8784.2	8145.5	8092.3	8459.7	9647.6	10526.5	10018.4
27.5°	10772.0	10919.6	11369.4	10569.4	8973.0	8130.1	8066.5	8442.5	9815.8	11141.1	10895.6
30°	11547.9	11683.6	11989.1	11060.4	9204.7	8233.1	8154.1	8578.1	9960.0	11561.6	11750.5
32.5°	12157.3	12298.1	12464.6	11365.9	9510.3	8420.2	8274.3	8825.3	10148.9	11882.7	12384.0
35°	12792.5	12959.1	12947.0	11637.2	9795.2	8636.5	8494.0	9182.4	10445.8	12162.5	13187.3
37.5°	13597.6	13664.6	13578.7	11881.0	10136.8	9026.2	8947.2	9712.8	10868.2	12500.7	14126.4
40°	14414.7	14548.6	14107.4	12176.3	10552.3	9759.2	9750.6	10497.4	11369.4	12897.2	15036.2
42.5°	15115.1	15228.4	14601.9	12433.8	11055.3	10653.5	10718.8	11549.6	12026.9	13357.3	15767.5
45°	15642.2	15743.4	15058.5	12682.6	11717.9	11687.0	12071.5	12677.5	12856.0	13771.0	16196.7
47.5°	16090.2	16188.1	15376.1	13060.3	12536.7	12921.3	13590.7	13853.4	13565.0	14007.9	16677.3
50°	16467.9	16497.1	15594.1	13510.1	13553.0	14433.7	15082.5	15252.5	14265.4	14347.8	17094.4
52.5°	16861.0	16823.2	15970.0	14076.6	14651.6	15868.7	16340.8	16517.7	14936.6	14766.7	17702.1
55°	17741.7	17777.6	16812.9	14790.7	15762.4	17278.1	17899.6	17729.6	15679.9	15537.5	18474.7
57.5°	18805.9	18775.1	17999.1	15908.3	16893.6	18589.6	19053.2	18780.2	16672.2	16596.6	19257.5
60°	19219.6	19260.8	18991.4	17109.9	18009.4	19738.1	20211.9	19787.9	17861.8	17827.4	19847.9
62.5°	18804.3	19036.0	19217.9	18179.4	18960.4	20582.7	21053.1	20568.9	19102.9	19351.8	20261.7
65°	17976.8	18026.6	18646.3	19085.7	19418.8	20721.7	20967.2	20709.7	20139.8	20740.7	20242.8
67.5°	16902.2	16945.1	17671.3	19382.8	18828.3	19142.4	19314.1	19238.5	19818.8	21216.2	19310.6
70°	15879.1	15844.7	16612.1	18625.7	16390.6	15913.4	16055.9	15819.0	17101.3	20054.0	17482.4
72.5°	13887.8	14011.3	14835.3	16521.1	12977.9	12202.0	12512.7	11899.8	13153.0	17175.2	14189.9
75°	10878.4	10907.6	12282.6	13865.4	9790.1	8566.1	8986.7	8730.9	10075.0	14327.2	9798.7
77.5°	7532.7	7467.4	8945.5	10590.0	6981.6	6270.9	6277.8	6156.0	7034.9	10548.8	6657.2
80°	4784.3	4684.8	5599.7	6542.1	4798.1	5132.8	4964.6	4959.4	4580.0	6507.8	4025.5
82.5°	2585.3	2695.2	3538.0	4101.1	3441.9	3967.2	3635.9	3529.4	3143.2	4073.6	2575.0
85°	1177.7	1280.6	1886.6	2789.6	2614.5	2643.7	1766.4	2084.0	2600.7	3308.0	1375.0
87.5°	115.0	147.6	389.7	1316.7	892.6	703.8	262.6	506.5	654.0	1175.9	109.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8363.6	8363.6	8363.6	8363.6	8363.6	8363.6	8363.6	8363.6	8363.6	8363.6	8363.6
2.5°	8888.9	8799.6	8495.7	8245.1	7979.0	7776.5	7512.1	7335.3	7213.3	7029.7	7007.4
5°	8480.3	8262.2	7733.5	7194.5	6729.3	6379.1	6023.7	5697.6	5505.3	5445.2	5368.0
7.5°	7791.9	7424.5	6744.7	6126.8	5592.9	5071.0	4669.3	4384.3	4193.8	4082.2	3948.3
10°	7225.4	6799.7	5972.3	5215.2	4775.7	4451.2	4097.7	3792.1	3556.9	3356.1	3246.2
12.5°	6844.3	6363.7	5433.2	4818.7	4478.7	4133.7	3720.0	3376.7	3029.9	2801.5	2703.7
15°	6729.3	6221.1	5266.7	4621.2	4133.7	3682.2	3218.8	2770.7	2427.4	2211.1	2138.9
17.5°	7010.8	6396.2	5265.0	4358.6	3728.6	3189.6	2595.6	2175.0	1823.1	1661.7	1610.3
20°	7536.1	6732.7	5280.5	4099.4	3289.2	2530.3	1888.3	1543.2	1375.0	1306.4	1280.6
22.5°	8269.1	7246.0	5326.8	3843.6	2808.4	1943.2	1414.6	1239.5	1179.3	1167.3	1162.2
25°	9172.1	7881.2	5483.0	3613.5	2403.3	1483.2	1182.8	1103.8	1069.5	1057.5	1055.7
27.5°	10002.9	8701.7	5671.8	3416.1	2011.9	1278.9	1069.5	1002.6	968.2	966.5	969.9
30°	10753.1	9388.4	5829.7	3194.7	1715.0	1136.4	995.7	928.7	896.1	894.4	904.7
32.5°	11402.0	9953.2	5946.5	2976.7	1550.1	1048.9	928.7	856.6	829.1	824.0	829.1
35°	12095.5	10516.2	5893.3	2806.8	1455.7	976.7	878.9	808.5	775.9	760.5	760.5
37.5°	12886.9	11096.5	5802.3	2666.0	1412.8	916.7	836.0	767.3	734.7	719.3	717.5
40°	13750.4	11676.7	5677.0	2540.7	1369.9	880.6	806.9	734.7	695.3	679.8	676.3
42.5°	14512.6	12172.8	5574.0	2458.2	1299.5	887.5	810.0	710.7	660.9	640.3	638.6
45°	15175.3	12672.4	5555.1	2410.2	1241.1	877.2	774.2	691.8	633.4	611.2	607.7
47.5°	15693.6	13192.5	5663.2	2382.7	1177.7	822.2	818.9	679.8	609.4	585.4	582.0
50°	16325.4	13930.7	5910.5	2326.0	1119.3	770.8	865.2	678.1	590.6	559.6	551.0
52.5°	17166.6	14892.0	6245.2	2224.8	1035.1	722.7	825.7	678.1	568.2	537.3	527.1
55°	18438.6	16117.7	6573.1	2082.3	916.7	659.2	745.0	657.5	535.6	508.1	501.2
57.5°	19281.4	17013.8	6782.5	1884.8	769.1	612.8	642.0	624.9	503.0	473.8	473.8
60°	19324.4	17254.1	6682.9	1636.0	676.3	569.9	557.9	630.0	473.8	442.9	439.4
62.5°	18830.0	16665.3	6164.5	1412.8	626.5	523.6	504.7	552.8	444.6	413.7	408.6
65°	18057.5	15163.2	5265.0	1306.4	599.1	482.4	454.9	453.2	413.7	384.5	377.7
67.5°	16637.8	13250.9	4325.9	1244.6	585.4	436.1	410.2	401.7	377.7	353.6	350.2
70°	14545.2	11098.2	3469.4	1218.9	578.5	388.0	367.3	357.1	336.5	317.6	315.9
72.5°	11316.2	9002.1	2863.4	1201.6	575.1	343.3	321.0	307.3	295.3	278.1	278.1
75°	8128.3	6622.9	2185.3	1083.2	532.2	295.3	271.2	262.6	245.5	231.8	235.1
77.5°	5124.2	4459.9	1438.5	796.5	412.0	236.9	216.3	211.2	197.4	178.5	190.6
80°	3460.8	3136.3	839.4	501.2	259.2	173.4	166.5	164.8	149.4	128.8	130.4
82.5°	2355.2	2310.6	436.1	284.9	149.4	101.3	97.8	101.3	84.1	68.6	68.6
85°	920.1	1256.6	206.0	111.6	48.1	15.5	22.3	24.1	13.7	6.9	8.6
87.5°	17.2	128.8	5.1	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8363.6	8363.6	8363.6	8363.6	8363.6	8363.6	8363.6	8363.6	8363.6	8363.6	8363.6
2.5°	6973.1	6957.6	6983.3	6873.5	6895.8	6937.0	6957.6	6969.6	7139.6	7100.1	7208.2
5°	5440.1	5424.6	5524.2	5537.9	5589.5	5579.1	5628.9	5640.9	5702.7	5725.0	5876.1
7.5°	3956.9	4023.8	4137.1	4195.5	4283.0	4310.5	4284.8	4348.3	4219.5	4312.2	4339.7
10°	3179.2	3098.6	3050.5	3184.4	3201.5	3328.6	3277.1	3235.9	3311.4	3314.9	3387.0
12.5°	2647.0	2473.7	2358.7	2396.4	2437.6	2492.6	2501.1	2583.6	2638.5	2690.0	2732.9
15°	2075.4	2015.4	1910.7	1859.1	1917.5	1939.9	1993.0	2061.7	2120.1	2135.6	2193.9
17.5°	1593.0	1603.4	1586.2	1555.3	1591.3	1608.5	1611.9	1613.6	1629.1	1618.8	1704.6
20°	1282.4	1318.4	1361.3	1368.1	1380.2	1388.7	1373.4	1315.0	1316.7	1352.7	1380.2
22.5°	1160.5	1167.3	1215.4	1230.8	1268.6	1253.2	1208.5	1181.1	1177.7	1186.2	1199.9
25°	1064.3	1074.6	1108.9	1133.0	1162.2	1134.7	1102.1	1076.3	1072.9	1081.5	1095.2
27.5°	978.5	994.0	1024.8	1048.9	1076.3	1050.6	1019.7	997.3	995.7	994.0	1002.6
30°	909.8	927.0	949.3	976.7	995.7	973.4	944.2	932.2	930.4	927.0	930.4
32.5°	841.2	868.7	891.0	904.7	923.6	906.4	884.1	877.2	865.2	854.9	849.7
35°	763.9	793.1	827.5	844.6	863.5	846.3	830.8	801.6	781.0	779.4	782.8
37.5°	719.3	731.3	758.8	787.9	806.9	798.3	769.1	739.9	734.7	734.7	738.1
40°	679.8	684.9	696.9	734.7	769.1	743.3	707.3	698.7	698.7	696.9	698.7
42.5°	640.3	645.5	645.5	674.7	729.6	688.4	660.9	660.9	660.9	662.6	667.8
45°	604.3	605.9	604.3	624.9	676.3	642.0	623.2	628.3	631.8	635.1	638.6
47.5°	573.4	575.1	573.4	590.6	616.3	602.6	592.2	599.1	605.9	611.2	614.6
50°	545.9	544.2	547.6	557.9	569.9	573.4	566.5	576.8	580.2	587.1	595.7
52.5°	521.8	520.2	523.6	528.7	545.9	545.9	545.9	554.5	561.4	568.2	580.2
55°	494.4	496.1	501.2	508.1	530.4	527.1	528.7	535.6	542.4	552.8	559.6
57.5°	468.6	472.1	478.9	489.2	511.6	509.8	511.6	515.0	523.6	528.7	535.6
60°	439.4	446.3	454.9	461.8	484.1	482.4	491.0	497.8	503.0	503.0	506.5
62.5°	410.2	420.6	429.2	434.3	458.3	460.0	472.1	477.3	480.6	477.3	482.4
65°	381.1	396.5	400.0	406.9	430.8	432.6	446.3	458.3	454.9	451.4	460.0
67.5°	351.9	370.8	369.1	377.7	401.7	405.1	417.1	437.7	430.8	427.5	434.3
70°	319.3	333.0	334.7	339.9	372.5	367.3	386.3	405.1	400.0	401.7	401.7
72.5°	283.2	295.3	295.3	305.5	339.9	331.4	346.7	367.3	367.3	365.7	365.7
75°	240.4	247.2	254.1	269.5	305.5	295.3	305.5	324.5	327.9	324.5	324.5
77.5°	194.0	204.3	207.7	228.3	254.1	252.4	262.6	271.2	278.1	274.7	274.7
80°	137.3	147.6	161.4	183.7	199.1	204.3	209.4	216.3	219.8	219.8	223.2
82.5°	77.3	92.7	104.7	127.0	133.9	159.6	157.9	163.1	157.9	139.0	154.5
85°	17.2	32.6	46.3	58.4	66.9	92.7	97.8	109.8	91.0	84.1	84.1
87.5°	0.0	0.0	0.0	0.0	0.0	13.7	27.5	37.8	32.6	27.5	27.5
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8363.6	8363.6	8363.6	8363.6	8363.6	8363.6	8363.6	8363.6	8363.6	8363.6
2.5°	7299.2	7448.6	7628.8	7939.5	8157.5	8392.8	8629.6	8882.0	8948.9	9017.6
5°	5917.3	6210.9	6370.5	6787.6	7225.4	7781.6	8236.5	8734.4	8942.0	8990.1
7.5°	4482.2	4681.3	5100.2	5522.5	6065.0	6648.6	7345.5	8121.5	8363.6	8464.8
10°	3553.5	3824.7	4192.0	4645.3	5120.8	5749.1	6535.3	7441.7	7785.1	7841.7
12.5°	3024.7	3326.9	3726.9	4205.8	4655.6	5129.3	5922.5	6858.0	7225.4	7347.3
15°	2418.8	2784.4	3246.2	3750.9	4240.2	4758.5	5562.0	6617.7	7041.7	7184.2
17.5°	1900.3	2195.6	2695.2	3242.7	3823.0	4478.7	5486.4	6732.7	7254.6	7386.8
20°	1454.0	1665.2	2085.8	2664.3	3344.1	4202.4	5505.3	7167.0	7791.9	7972.2
22.5°	1256.6	1364.8	1620.5	2171.5	2932.1	3962.0	5582.6	7762.7	8516.3	8816.7
25°	1138.1	1194.8	1339.0	1699.5	2538.9	3728.6	5759.3	8564.4	9529.1	9728.3
27.5°	1036.9	1078.1	1167.3	1426.5	2181.9	3512.3	5965.4	9453.6	10475.0	10772.0
30°	940.7	995.7	1079.8	1266.9	1953.6	3314.9	6224.6	10174.6	11271.6	11547.9
32.5°	866.9	921.8	999.1	1155.3	1759.5	3107.2	6379.1	10808.0	11922.2	12157.3
35°	806.9	853.2	933.8	1066.1	1611.9	2949.2	6348.2	11311.0	12552.2	12792.5
37.5°	763.9	803.4	884.1	982.0	1500.3	2784.4	6332.7	11975.4	13319.5	13597.6
40°	724.4	765.6	839.4	927.0	1388.7	2590.4	6341.3	12634.6	14136.6	14414.7
42.5°	693.5	739.9	800.0	911.6	1273.8	2434.2	6341.3	13207.9	14847.4	15115.1
45°	667.8	717.5	775.9	909.8	1182.8	2315.8	6298.4	13700.6	15413.8	15642.2
47.5°	645.5	700.4	784.5	878.9	1160.5	2229.9	6260.7	14095.4	15875.6	16090.2
50°	630.0	695.3	834.3	842.9	1167.3	2204.2	6442.6	14593.3	16282.4	16467.9
52.5°	618.0	696.9	832.6	789.7	1155.3	2221.3	6822.0	15371.0	16847.2	16861.0
55°	594.0	695.3	789.7	729.6	1105.5	2250.5	7309.6	16500.5	17731.3	17741.7
57.5°	569.9	676.3	733.0	678.1	1004.2	2250.5	7896.6	17569.9	18797.4	18805.9
60°	545.9	703.8	643.8	633.4	872.0	2209.3	8516.3	18040.3	19132.1	19219.6
62.5°	521.8	709.0	575.1	594.0	775.9	2109.7	8978.1	17520.2	18678.9	18804.3
65°	494.4	571.6	530.4	552.8	726.1	1943.2	8832.2	16567.4	17827.4	17976.8
67.5°	461.8	484.1	482.4	509.8	709.0	1697.8	8063.1	15362.4	16910.7	16902.2
70°	422.3	434.3	439.4	468.6	676.3	1507.2	6719.0	13798.5	15686.8	15879.1
72.5°	381.1	391.4	396.5	422.3	643.8	1399.1	5215.2	11644.1	13587.3	13887.8
75°	336.5	343.3	350.2	372.5	609.4	1239.5	3714.9	8888.9	10406.4	10878.4
77.5°	290.1	290.1	298.7	321.0	513.3	1023.2	2492.6	6234.9	7050.3	7532.7
80°	235.1	236.9	233.5	257.5	377.7	700.4	1416.2	4164.6	4691.6	4784.3
82.5°	180.2	175.1	176.8	188.8	281.6	477.3	755.3	2587.0	2636.8	2585.3
85°	113.3	113.3	109.8	123.6	180.2	248.9	412.0	1584.4	1237.7	1177.7
87.5°	46.3	37.8	42.9	49.8	85.9	101.3	161.4	326.1	125.3	115.0
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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