

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: P652562

Luminaire Tested: **GALN-SA8B-840-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652562
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-SA8B-840-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA 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: 33309.5 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

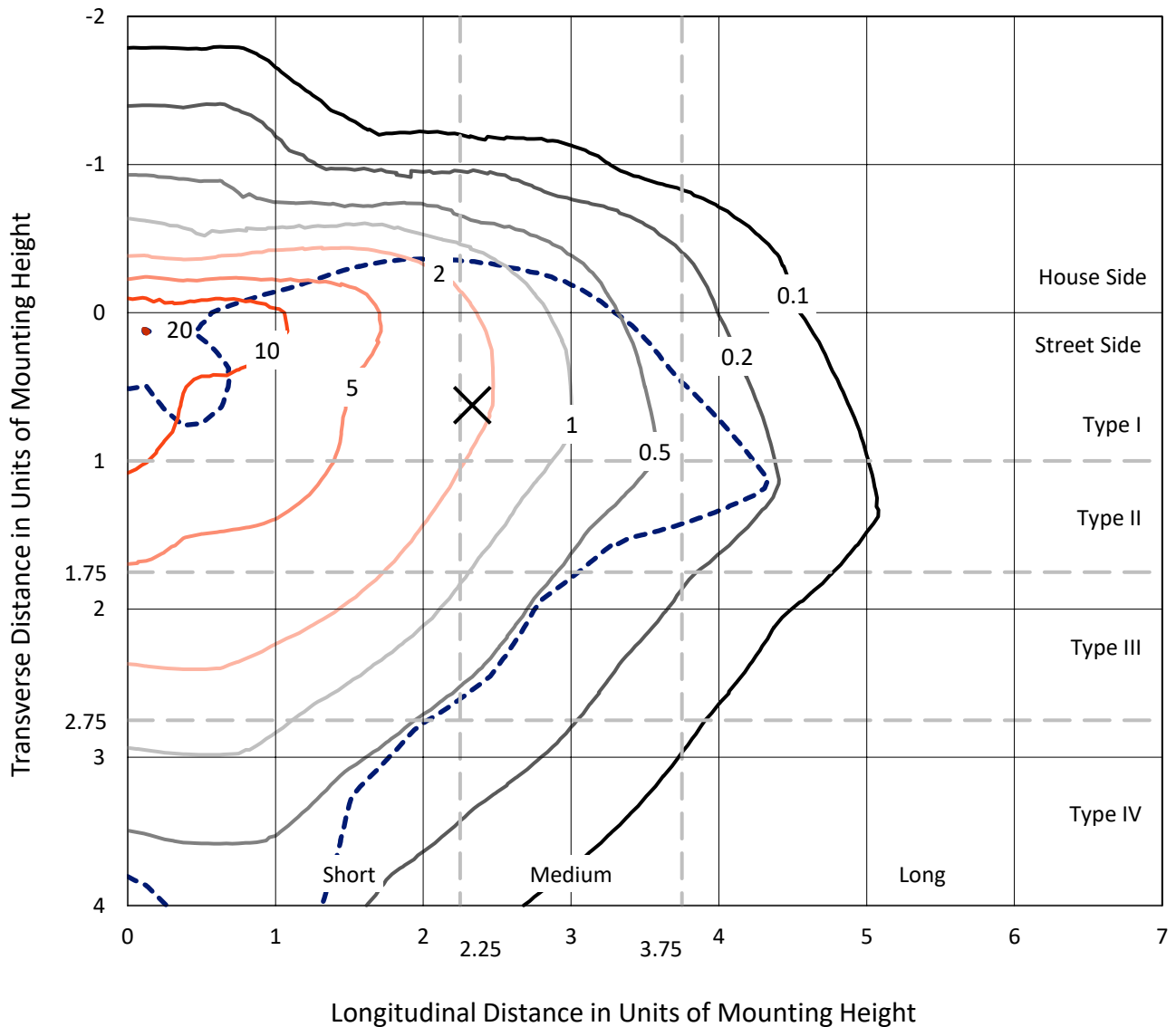
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

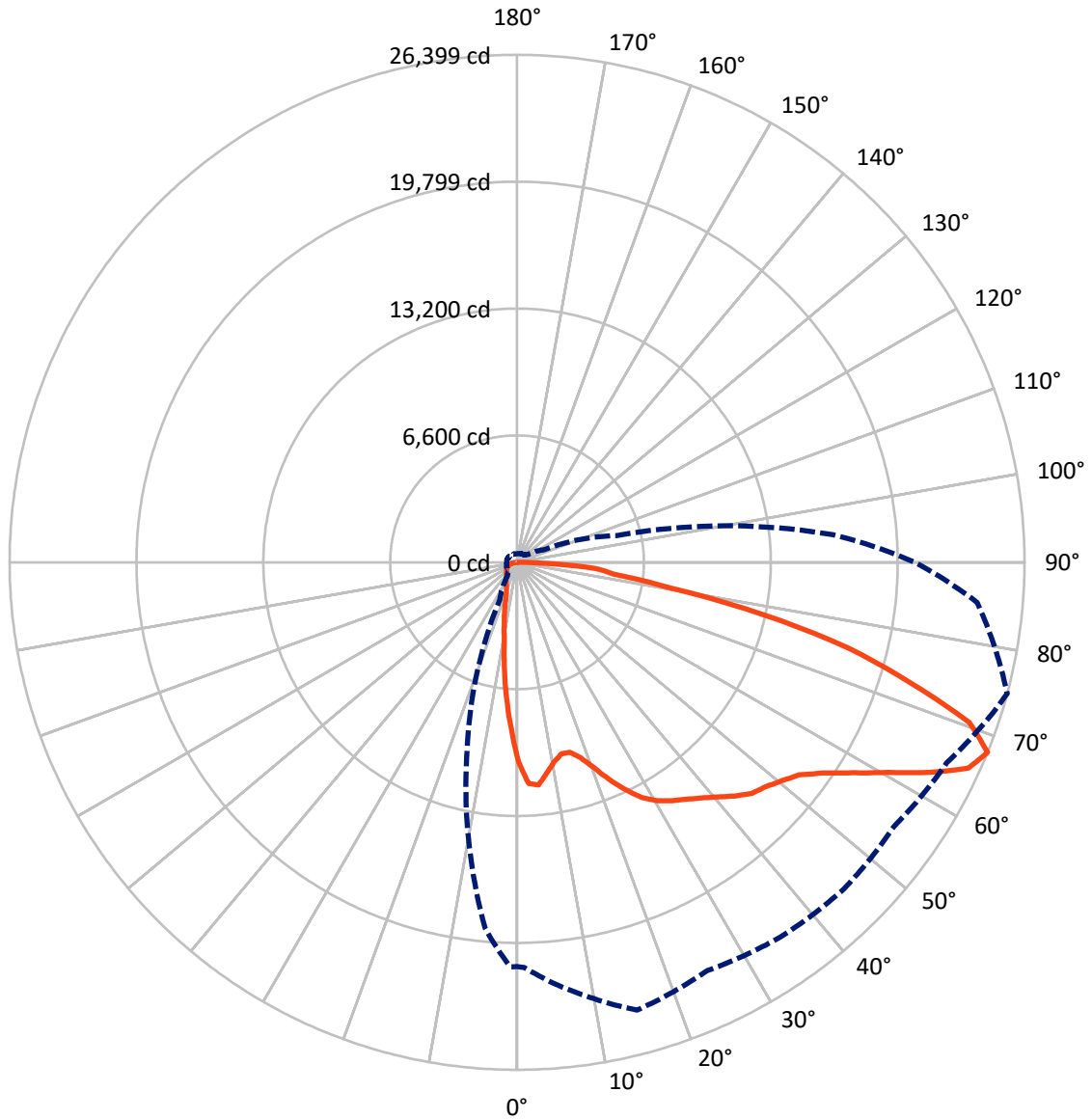
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.5 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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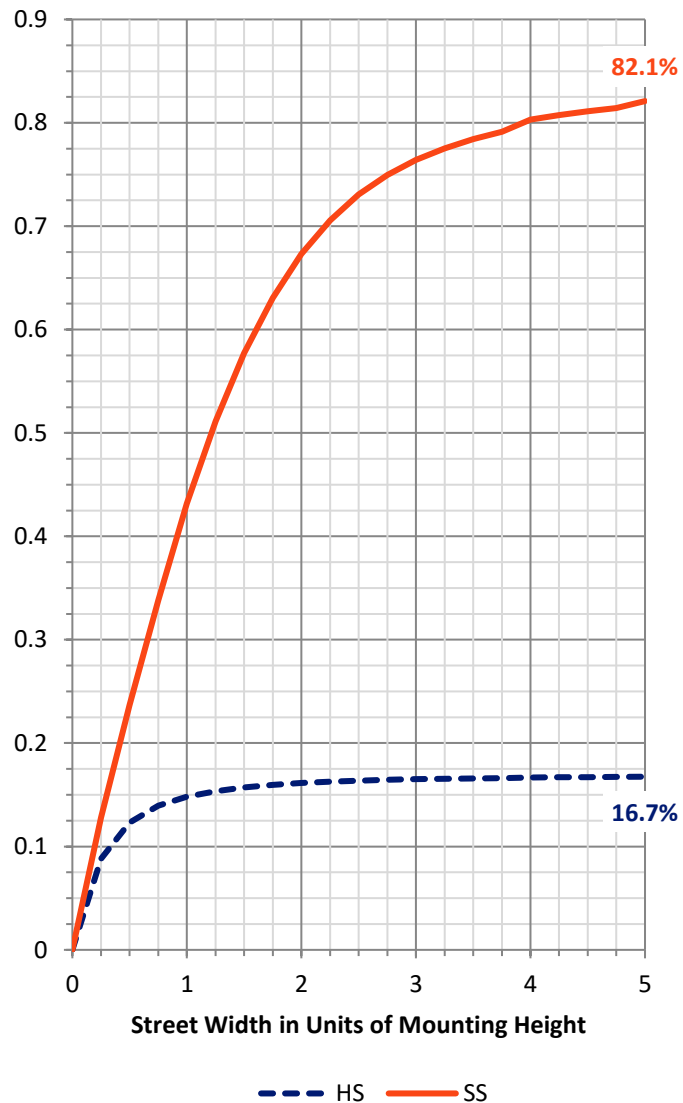
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5630.0	0.0	5630.0
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	27679.5	0.0	27679.5
	% Fixture	83.1	0.0	83.1
Total	Lumens	33309.5	0.0	33309.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	789.3	2.4
10°-20°	1646.1	4.9
20°-30°	2368.8	7.1
30°-40°	3411.8	10.2
40°-50°	4792.6	14.4
50°-60°	6684.0	20.1
60°-70°	7946.9	23.9
70°-80°	4680.3	14.1
80°-90°	989.7	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°	33309.5	100.0
0°-180°	33309.5	100.0

Coefficient of Utilization

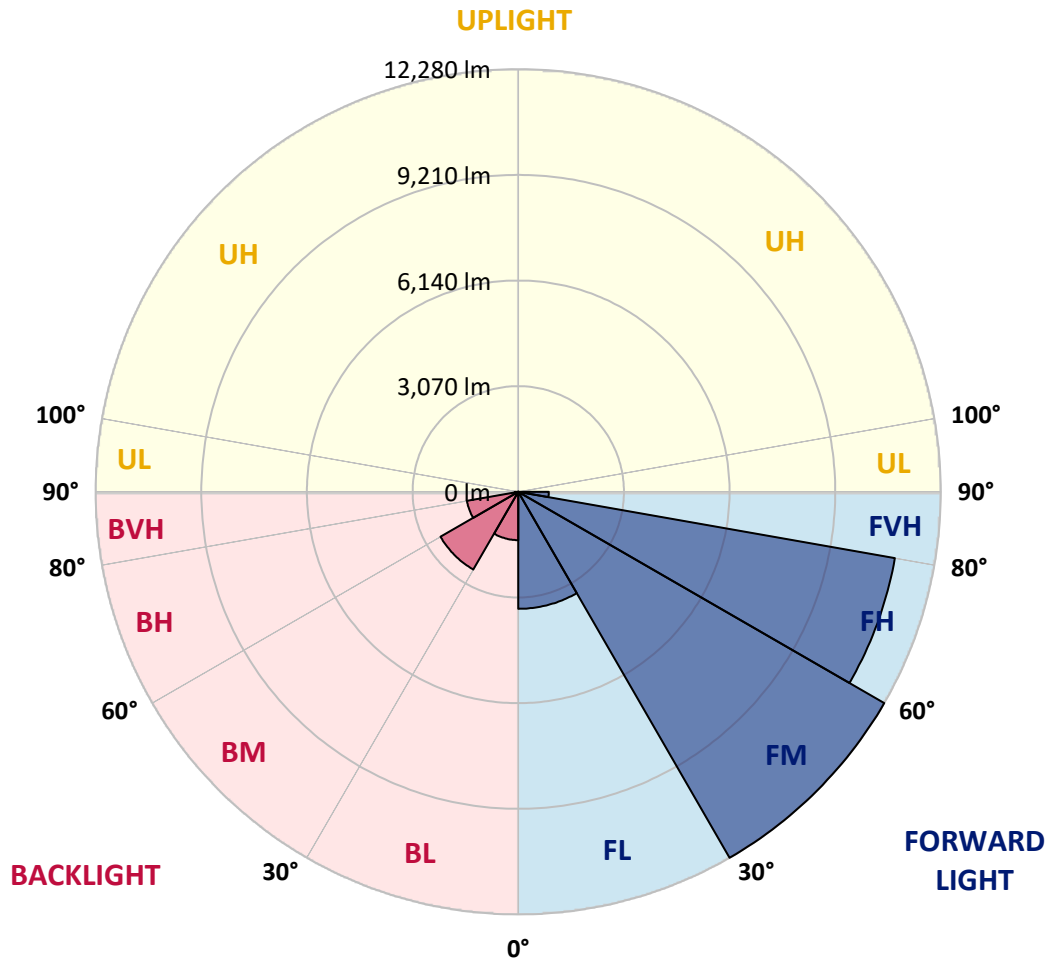


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3400.0	10.2			
FM (30°-60°)	12280.0	36.9			
FH (60°-80°)	11112.2	33.4			G4/12000
FVH (80°-90°)	887.3	2.7			G5
BL (0°-30°)	1404.3	4.2	B3/2500		
BM (30°-60°)	2608.4	7.8	B3/5000		
BH (60°-80°)	1514.9	4.5	B3/2500		G3/2500
BVH (80°-90°)	102.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10406.7	10406.7	10406.7	10406.7	10406.7	10406.7	10406.7	10406.7	10406.7	10406.7	10406.7
2.5°	11220.5	11235.4	11331.5	11611.4	11803.6	11874.1	11923.3	11831.4	11741.7	11523.8	11194.9
5°	11186.3	11273.9	11523.8	12151.8	12647.4	12861.0	12925.1	12649.5	12194.5	11634.9	10962.0
7.5°	10532.7	10650.2	11034.7	12087.7	12961.3	13461.2	13394.9	12897.2	12077.0	11079.5	10139.7
10°	9757.3	9887.6	10351.1	11624.2	12749.9	13437.7	13437.7	12831.1	11741.7	10556.2	9473.2
12.5°	9142.2	9278.8	9808.6	11147.9	12309.9	12961.3	13070.3	12549.1	11500.3	10225.1	9035.4
15°	8939.2	9071.7	9642.0	10859.5	11844.2	12241.5	12277.8	12107.0	11382.9	10248.6	9016.1
17.5°	9191.3	9362.2	9938.9	10944.9	11417.0	11440.5	11468.3	11602.9	11395.6	10677.9	9404.9
20°	9919.7	10103.4	10705.7	11220.5	11043.2	10799.7	10814.7	11160.7	11547.3	11387.1	10334.0
22.5°	10970.6	11130.8	11748.1	11705.4	10885.1	10383.2	10278.5	10761.3	11771.6	12271.5	11323.1
25°	12104.8	12292.8	13001.9	12425.2	10930.0	10135.4	10069.2	10526.3	12004.4	13098.1	12465.8
27.5°	13403.5	13587.2	14146.8	13151.5	11164.9	10116.1	10037.2	10504.9	12213.8	13862.7	13557.3
30°	14369.0	14537.7	14917.9	13762.4	11453.3	10244.3	10146.1	10673.6	12393.1	14386.1	14621.0
32.5°	15127.2	15302.4	15509.6	14142.6	11833.5	10477.2	10295.6	10981.3	12628.1	14785.5	15409.2
35°	15917.6	16124.8	16109.9	14480.1	12188.1	10746.3	10569.0	11425.6	12997.7	15133.7	16408.9
37.5°	16919.4	17002.7	16895.9	14783.4	12613.1	11231.1	11132.9	12085.6	13523.1	15554.5	17577.3
40°	17936.1	18102.8	17553.8	15150.8	13130.1	12143.3	12132.6	13061.7	14146.8	16047.9	18709.4
42.5°	18807.6	18948.6	18169.0	15471.2	13756.0	13256.1	13337.3	14371.1	14964.9	16620.3	19619.4
45°	19463.3	19589.4	18737.1	15780.9	14580.4	14542.0	15020.4	15774.5	15996.7	17135.1	20153.3
47.5°	20020.8	20142.6	19132.3	16250.8	15599.3	16077.8	16910.8	17237.6	16878.8	17429.9	20751.4
50°	20490.8	20527.1	19403.6	16810.4	16863.8	17959.6	18767.0	18978.5	17750.3	17852.8	21270.5
52.5°	20979.9	20933.0	19871.4	17515.3	18230.9	19745.3	20332.8	20552.8	18585.5	18374.0	22026.6
55°	22075.7	22120.6	20920.1	18403.9	19612.9	21499.0	22272.2	22060.8	19510.4	19333.1	22987.8
57.5°	23400.1	23361.6	22396.2	19794.4	21020.5	23130.9	23707.6	23368.0	20745.0	20651.0	23961.9
60°	23914.8	23966.1	23630.8	21289.7	22408.9	24559.9	25149.4	24621.9	22225.3	22182.6	24696.6
62.5°	23398.0	23686.3	23912.7	22620.4	23592.3	25610.8	26196.1	25593.7	23769.6	24079.3	25211.4
65°	22368.3	22430.3	23201.4	23748.2	24162.6	25783.9	26089.3	25768.9	25059.8	25807.3	25187.9
67.5°	21031.2	21084.6	21988.1	24117.8	23427.8	23818.7	24032.3	23938.3	24660.3	26399.0	24028.0
70°	19758.1	19715.4	20670.3	23175.8	20394.7	19800.8	19978.1	19683.4	21279.0	24953.0	21753.2
72.5°	17280.4	17434.2	18459.4	20557.0	16148.3	15182.8	15569.4	14806.9	16366.2	21370.8	17656.3
75°	13535.9	13572.2	15283.2	17252.6	12181.7	10658.7	11182.0	10863.8	12536.3	17827.2	12192.4
77.5°	9372.9	9291.7	11130.8	13177.1	8687.2	7802.9	7811.4	7659.7	8753.4	13125.8	8283.5
80°	5953.1	5829.2	6967.7	8140.4	5970.2	6386.7	6177.4	6170.9	5698.9	8097.7	5009.0
82.5°	3216.8	3353.6	4402.3	5102.9	4282.7	4936.3	4524.1	4391.6	3911.1	5068.8	3204.0
85°	1465.3	1593.4	2347.5	3471.1	3253.2	3289.5	2198.0	2593.1	3236.1	4116.1	1710.9
87.5°	143.1	183.7	484.8	1638.4	1110.7	875.7	326.8	630.2	813.8	1463.2	136.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10406.7	10406.7	10406.7	10406.7	10406.7	10406.7	10406.7	10406.7	10406.7	10406.7	10406.7
2.5°	11060.3	10949.2	10571.1	10259.3	9928.2	9676.1	9347.2	9127.2	8975.6	8747.0	8719.2
5°	10551.9	10280.6	9622.7	8952.0	8373.2	7937.4	7495.2	7089.5	6850.2	6775.4	6679.3
7.5°	9695.4	9238.3	8392.4	7623.4	6959.1	6309.8	5810.0	5455.4	5218.3	5079.5	4912.9
10°	8990.5	8460.8	7431.2	6489.2	5942.4	5538.7	5098.6	4718.4	4425.8	4175.9	4039.2
12.5°	8516.3	7918.2	6760.5	5995.8	5572.9	5143.6	4628.8	4201.6	3770.0	3485.9	3364.3
15°	8373.2	7740.9	6553.3	5750.2	5143.6	4581.8	4005.0	3447.5	3020.4	2751.2	2661.5
17.5°	8723.5	7958.8	6551.1	5423.4	4639.5	3968.7	3229.7	2706.3	2268.4	2067.7	2003.6
20°	9377.2	8377.5	6570.4	5100.8	4092.6	3148.5	2349.6	1920.3	1710.9	1625.5	1593.4
22.5°	10289.2	9016.1	6628.1	4782.5	3494.5	2418.0	1760.0	1542.2	1467.5	1452.5	1446.1
25°	11412.7	9806.5	6822.4	4496.3	2990.4	1845.5	1471.8	1373.4	1330.7	1315.7	1313.6
27.5°	12446.5	10827.5	7057.4	4250.7	2503.4	1591.3	1330.7	1247.5	1204.7	1202.5	1206.8
30°	13380.0	11681.9	7253.9	3975.2	2133.9	1414.1	1238.9	1155.6	1115.0	1112.9	1125.7
32.5°	14187.4	12384.7	7399.2	3703.8	1928.8	1305.1	1155.6	1065.9	1031.7	1025.3	1031.7
35°	15050.4	13085.2	7332.9	3492.4	1811.3	1215.4	1093.6	1006.1	965.5	946.3	946.3
37.5°	16035.1	13807.2	7219.7	3317.2	1757.9	1140.6	1040.2	954.8	914.3	895.0	892.9
40°	17109.5	14529.2	7063.8	3161.3	1704.5	1095.7	1003.9	914.3	865.1	845.9	841.6
42.5°	18057.9	15146.5	6935.6	3058.8	1617.0	1104.3	971.9	884.3	822.3	796.8	794.6
45°	18882.4	15768.1	6912.2	2999.0	1544.3	1091.5	963.4	860.8	788.2	760.4	756.1
47.5°	19527.4	16415.3	7046.7	2964.8	1465.3	1023.2	1018.9	845.9	758.2	728.4	724.1
50°	20313.5	17333.8	7354.3	2894.3	1392.7	959.1	1076.6	843.7	734.8	696.3	685.7
52.5°	21360.1	18529.9	7770.8	2768.2	1288.0	899.3	1027.4	843.7	707.0	668.6	655.7
55°	22943.0	20055.1	8178.8	2591.0	1140.6	820.2	927.0	818.1	666.4	632.3	623.7
57.5°	23991.7	21170.1	8439.4	2345.4	957.0	762.5	798.9	777.5	625.9	589.5	589.5
60°	24045.1	21469.1	8315.5	2035.6	841.6	709.1	694.2	783.9	589.5	551.1	546.8
62.5°	23429.9	20736.5	7670.4	1757.9	779.6	651.5	628.0	687.8	553.2	514.8	508.4
65°	22468.7	18867.4	6551.1	1625.5	745.5	600.2	566.1	563.9	514.8	478.4	470.0
67.5°	20702.3	16487.9	5382.7	1548.6	728.4	542.5	510.5	499.8	470.0	440.0	435.7
70°	18098.5	13809.3	4316.9	1516.6	719.8	482.7	457.1	444.3	418.6	395.2	393.0
72.5°	14080.6	11201.3	3562.9	1495.2	715.6	427.2	399.5	382.3	367.4	346.1	346.1
75°	10114.0	8240.8	2719.1	1347.8	662.2	367.4	337.5	326.8	305.5	288.4	292.7
77.5°	6376.0	5549.3	1790.0	991.1	512.7	294.8	269.1	262.7	245.7	222.1	237.1
80°	4306.2	3902.5	1044.5	623.7	322.5	215.7	207.2	205.0	185.9	160.2	162.3
82.5°	2930.6	2875.0	542.5	354.6	185.9	126.1	121.8	126.1	104.7	85.4	85.4
85°	1144.9	1563.6	256.3	138.8	59.8	19.3	27.8	29.9	17.1	8.6	10.7
87.5°	21.4	160.2	6.4	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°	10406.7	10406.7	10406.7	10406.7	10406.7	10406.7	10406.7	10406.7	10406.7	10406.7	10406.7
2.5°	8676.5	8657.3	8689.3	8552.6	8580.4	8631.6	8657.3	8672.2	8883.7	8834.5	8969.1
5°	6769.0	6749.8	6873.7	6890.8	6954.9	6942.0	7004.0	7019.0	7095.9	7123.6	7311.6
7.5°	4923.6	5006.8	5147.8	5220.4	5329.3	5363.6	5331.5	5410.5	5250.4	5365.7	5399.8
10°	3955.9	3855.5	3795.7	3962.3	3983.6	4141.8	4077.7	4026.4	4120.4	4124.7	4214.3
12.5°	3293.8	3078.0	2934.9	2981.8	3033.2	3101.5	3112.2	3214.7	3283.1	3347.1	3400.5
15°	2582.5	2507.7	2377.4	2313.3	2385.9	2413.7	2479.9	2565.4	2638.0	2657.2	2729.8
17.5°	1982.2	1995.0	1973.7	1935.2	1980.1	2001.4	2005.7	2007.9	2027.1	2014.3	2121.1
20°	1595.6	1640.5	1693.9	1702.4	1717.3	1728.0	1708.8	1636.2	1638.4	1683.2	1717.3
22.5°	1443.9	1452.5	1512.3	1531.5	1578.6	1559.3	1503.8	1469.6	1465.3	1476.0	1493.1
25°	1324.3	1337.1	1379.8	1409.8	1446.1	1411.9	1371.3	1339.3	1335.0	1345.7	1362.8
27.5°	1217.5	1236.8	1275.2	1305.1	1339.3	1307.3	1268.8	1241.1	1238.9	1236.8	1247.5
30°	1132.1	1153.4	1181.2	1215.4	1238.9	1211.1	1174.8	1159.8	1157.7	1153.4	1157.7
32.5°	1046.6	1080.9	1108.6	1125.7	1149.1	1127.8	1100.0	1091.5	1076.6	1063.7	1057.3
35°	950.5	986.8	1029.6	1050.9	1074.4	1053.0	1033.8	997.5	971.9	969.8	974.0
37.5°	895.0	910.0	944.1	980.4	1003.9	993.2	957.0	920.6	914.3	914.3	918.5
40°	845.9	852.3	867.2	914.3	957.0	924.9	880.0	869.3	869.3	867.2	869.3
42.5°	796.8	803.2	803.2	839.5	907.8	856.6	822.3	822.3	822.3	824.5	830.9
45°	751.9	754.0	751.9	777.5	841.6	798.9	775.4	781.8	786.1	790.3	794.6
47.5°	713.4	715.6	713.4	734.8	766.8	749.8	736.9	745.5	754.0	760.4	764.7
50°	679.3	677.1	681.4	694.2	709.1	713.4	704.9	717.7	722.0	730.5	741.2
52.5°	649.3	647.2	651.5	657.9	679.3	679.3	679.3	690.0	698.5	707.0	722.0
55°	615.2	617.3	623.7	632.3	660.0	655.7	657.9	666.4	675.0	687.8	696.3
57.5°	583.1	587.4	595.9	608.8	636.6	634.4	636.6	640.8	651.5	657.9	666.4
60°	546.8	555.4	566.1	574.6	602.3	600.2	610.9	619.5	625.9	625.9	630.2
62.5°	510.5	523.4	534.0	540.4	570.3	572.5	587.4	593.8	598.1	593.8	600.2
65°	474.2	493.4	497.7	506.2	536.1	538.2	555.4	570.3	566.1	561.8	572.5
67.5°	437.9	461.4	459.3	470.0	499.8	504.1	519.1	544.7	536.1	531.8	540.4
70°	397.3	414.4	416.5	422.9	463.5	457.1	480.6	504.1	497.7	499.8	499.8
72.5°	352.5	367.4	367.4	380.2	422.9	412.3	431.5	457.1	457.1	455.0	455.0
75°	299.1	307.6	316.1	335.4	380.2	367.4	380.2	403.7	408.0	403.7	403.7
77.5°	241.4	254.2	258.4	284.1	316.1	314.0	326.8	337.5	346.1	341.8	341.8
80°	170.9	183.7	200.7	228.6	247.8	254.2	260.6	269.1	273.4	273.4	277.7
82.5°	96.1	115.4	130.3	158.0	166.6	198.6	196.5	202.9	196.5	173.0	192.3
85°	21.4	40.6	57.7	72.7	83.3	115.4	121.8	136.7	113.2	104.7	104.7
87.5°	0.0	0.0	0.0	0.0	0.0	17.1	34.1	47.0	40.6	34.1	34.1
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10406.7	10406.7	10406.7	10406.7	10406.7	10406.7	10406.7	10406.7	10406.7	10406.7
2.5°	9082.4	9268.2	9492.5	9879.1	10150.4	10442.9	10737.7	11051.7	11135.1	11220.5
5°	7362.9	7728.1	7926.8	8445.8	8990.5	9682.6	10248.6	10868.1	11126.5	11186.3
7.5°	5577.2	5824.9	6346.1	6871.6	7546.5	8272.8	9140.0	10105.5	10406.7	10532.7
10°	4421.6	4759.1	5216.1	5780.0	6371.8	7153.5	8131.8	9259.7	9686.8	9757.3
12.5°	3763.6	4139.6	4637.3	5233.2	5792.9	6382.4	7369.3	8533.4	8990.5	9142.2
15°	3009.7	3464.6	4039.2	4667.2	5275.9	5921.1	6920.7	8234.3	8762.0	8939.2
17.5°	2364.6	2732.0	3353.6	4034.9	4756.9	5572.9	6826.7	8377.5	9026.8	9191.3
20°	1809.2	2072.0	2595.2	3315.1	4160.9	5229.0	6850.2	8917.9	9695.4	9919.7
22.5°	1563.6	1698.1	2016.4	2702.0	3648.3	4929.9	6946.3	9659.1	10596.8	10970.6
25°	1416.2	1486.6	1666.1	2114.7	3159.1	4639.5	7166.3	10656.6	11857.0	12104.8
27.5°	1290.2	1341.4	1452.5	1775.0	2714.9	4370.3	7422.7	11763.1	13034.0	13403.5
30°	1170.5	1238.9	1343.6	1576.4	2430.8	4124.7	7745.2	12660.2	14025.1	14369.0
32.5°	1078.7	1147.0	1243.2	1437.5	2189.4	3866.2	7937.4	13448.3	14834.7	15127.2
35°	1003.9	1061.6	1162.0	1326.4	2005.7	3669.7	7899.0	14074.2	15618.5	15917.6
37.5°	950.5	999.7	1100.0	1221.8	1866.9	3464.6	7879.7	14900.8	16573.3	16919.4
40°	901.4	952.7	1044.5	1153.4	1728.0	3223.2	7890.4	15721.1	17590.1	17936.1
42.5°	863.0	920.6	995.4	1134.3	1584.9	3028.9	7890.4	16434.5	18474.4	18807.6
45°	830.9	892.9	965.5	1132.1	1471.8	2881.5	7837.0	17047.6	19179.3	19463.3
47.5°	803.2	871.5	976.1	1093.6	1443.9	2774.7	7790.0	17538.8	19753.9	20020.8
50°	783.9	865.1	1038.1	1048.8	1452.5	2742.7	8016.5	18158.3	20260.1	20490.8
52.5°	768.9	867.2	1035.9	982.5	1437.5	2764.0	8488.5	19125.9	20962.9	20979.9
55°	739.1	865.1	982.5	907.8	1375.6	2800.3	9095.2	20531.4	22062.9	22075.7
57.5°	709.1	841.6	912.1	843.7	1249.6	2800.3	9825.7	21862.1	23389.4	23400.1
60°	679.3	875.7	801.0	788.2	1085.1	2749.1	10596.8	22447.4	23805.9	23914.8
62.5°	649.3	882.2	715.6	739.1	965.5	2625.2	11171.3	21800.1	23242.0	23398.0
65°	615.2	711.3	660.0	687.8	903.6	2418.0	10989.8	20614.7	22182.6	22368.3
67.5°	574.6	602.3	600.2	634.4	882.2	2112.5	10032.9	19115.2	21041.9	21031.2
70°	525.5	540.4	546.8	583.1	841.6	1875.4	8360.4	17169.3	19518.9	19758.1
72.5°	474.2	487.0	493.4	525.5	801.0	1740.9	6489.2	14488.6	16906.5	17280.4
75°	418.6	427.2	435.7	463.5	758.2	1542.2	4622.3	11060.3	12948.5	13535.9
77.5°	361.0	361.0	371.6	399.5	638.7	1273.1	3101.5	7758.0	8772.6	9372.9
80°	292.7	294.8	290.5	320.4	470.0	871.5	1762.2	5182.0	5837.7	5953.1
82.5°	224.3	217.9	220.0	235.0	350.3	593.8	939.8	3219.0	3280.9	3216.8
85°	141.0	141.0	136.7	153.8	224.3	309.7	512.7	1971.6	1540.0	1465.3
87.5°	57.7	47.0	53.4	62.0	106.8	126.1	200.7	405.9	155.9	143.1
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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