

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: P652013

Luminaire Tested: **GALN-SA7A-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652013
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-SA7A-840-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 615mA 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: 14809.2 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 215
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

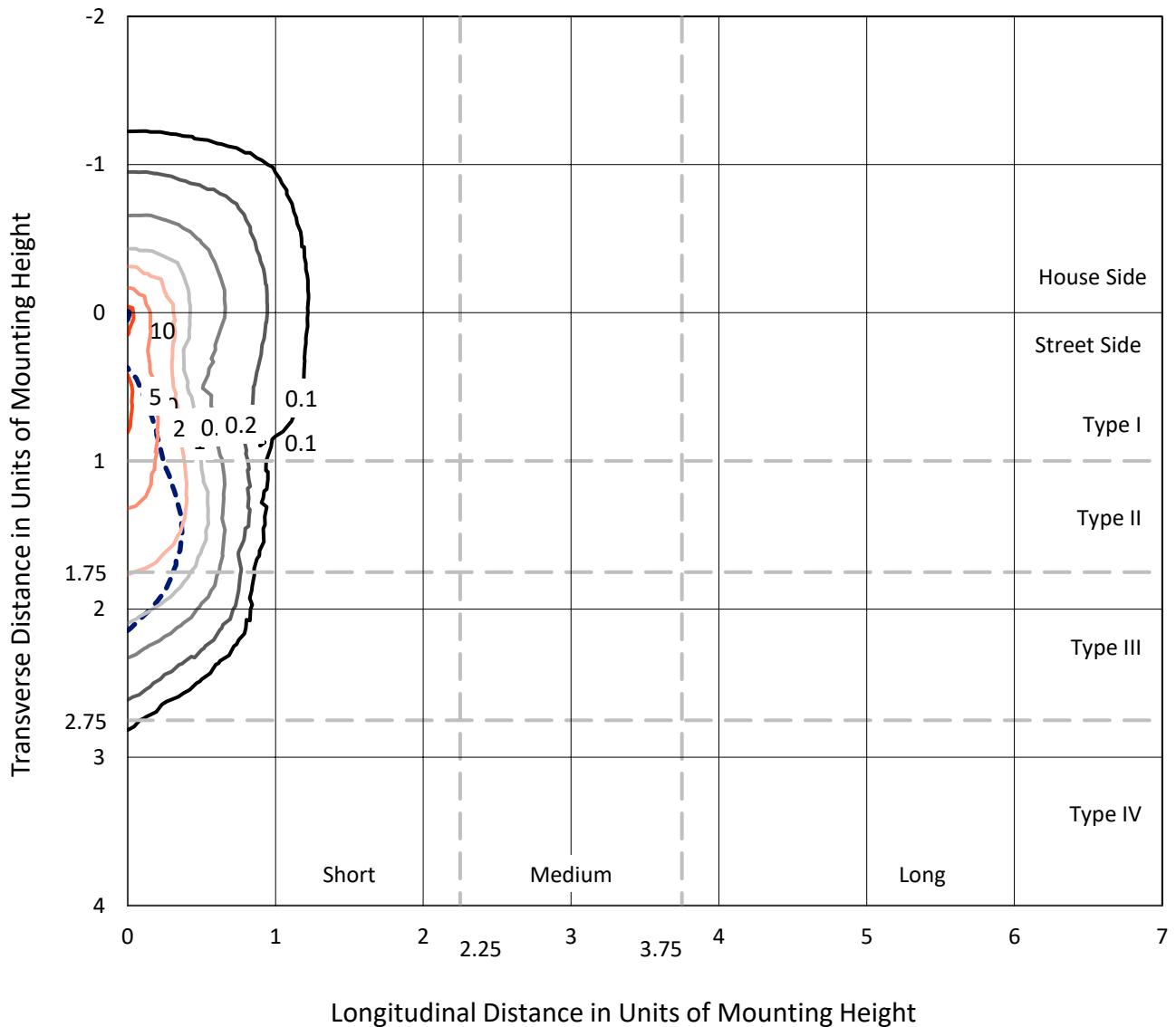




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Iso-Footcandle Lines of Horizontal Illumination

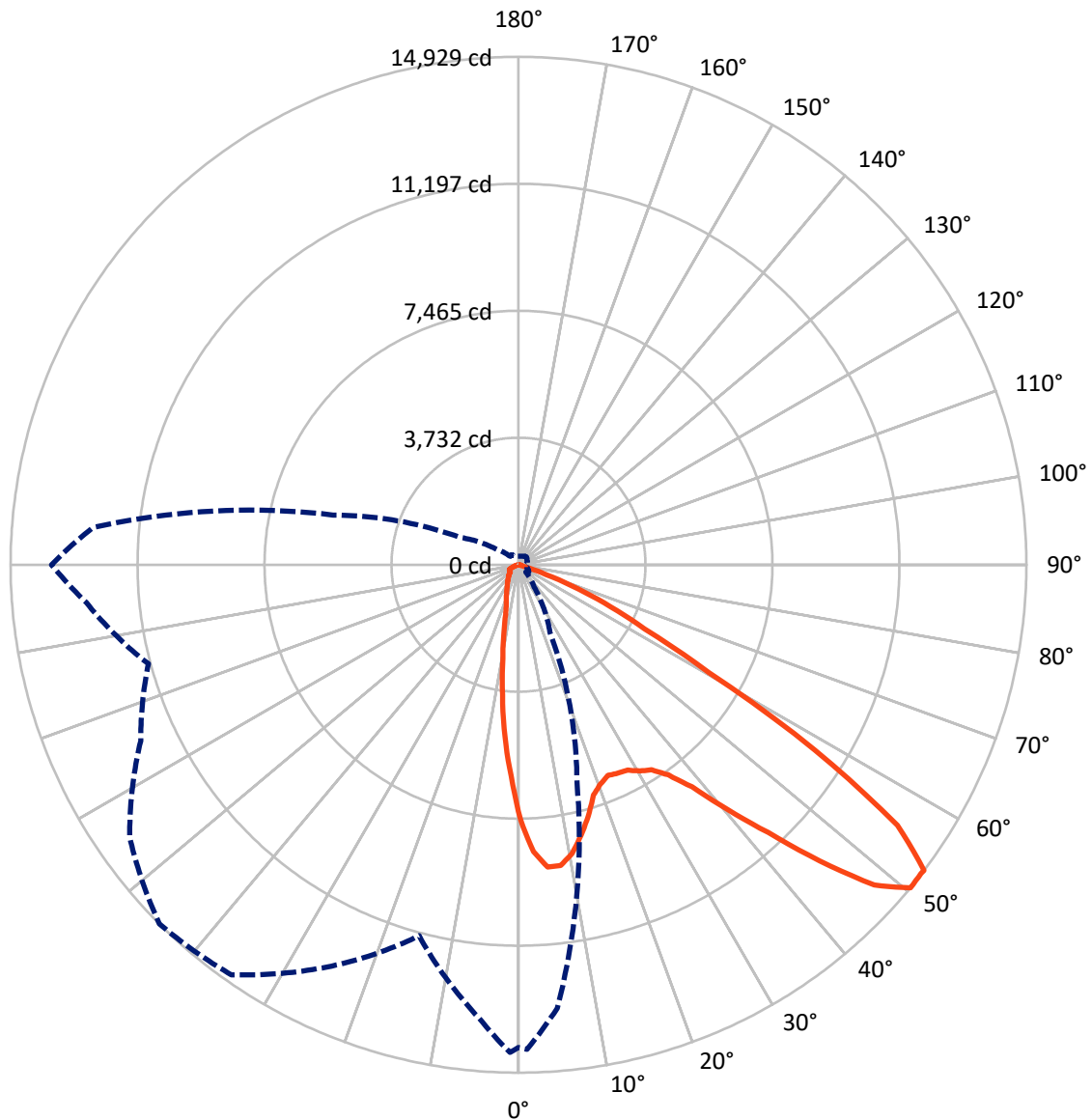
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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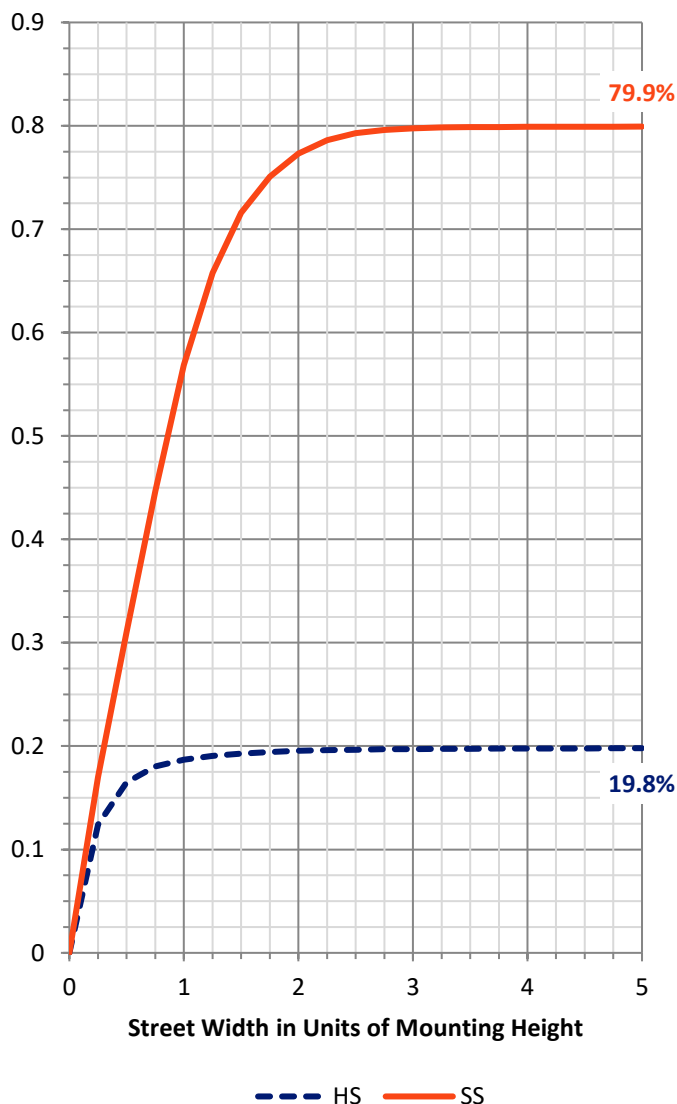
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2966.3	0.0	2966.3
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	11842.9	0.0	11842.9
	% Fixture	80.0	0.0	80.0
Total	Lumens	14809.2	0.0	14809.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	547.4	3.7
10°-20°	1088.0	7.3
20°-30°	1634.4	11.0
30°-40°	2453.2	16.6
40°-50°	3447.8	23.3
50°-60°	3719.1	25.1
60°-70°	1726.8	11.7
70°-80°	162.5	1.1
80°-90°	29.9	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°	14809.2	100.0
0°-180°	14809.2	100.0

Coefficient of Utilization

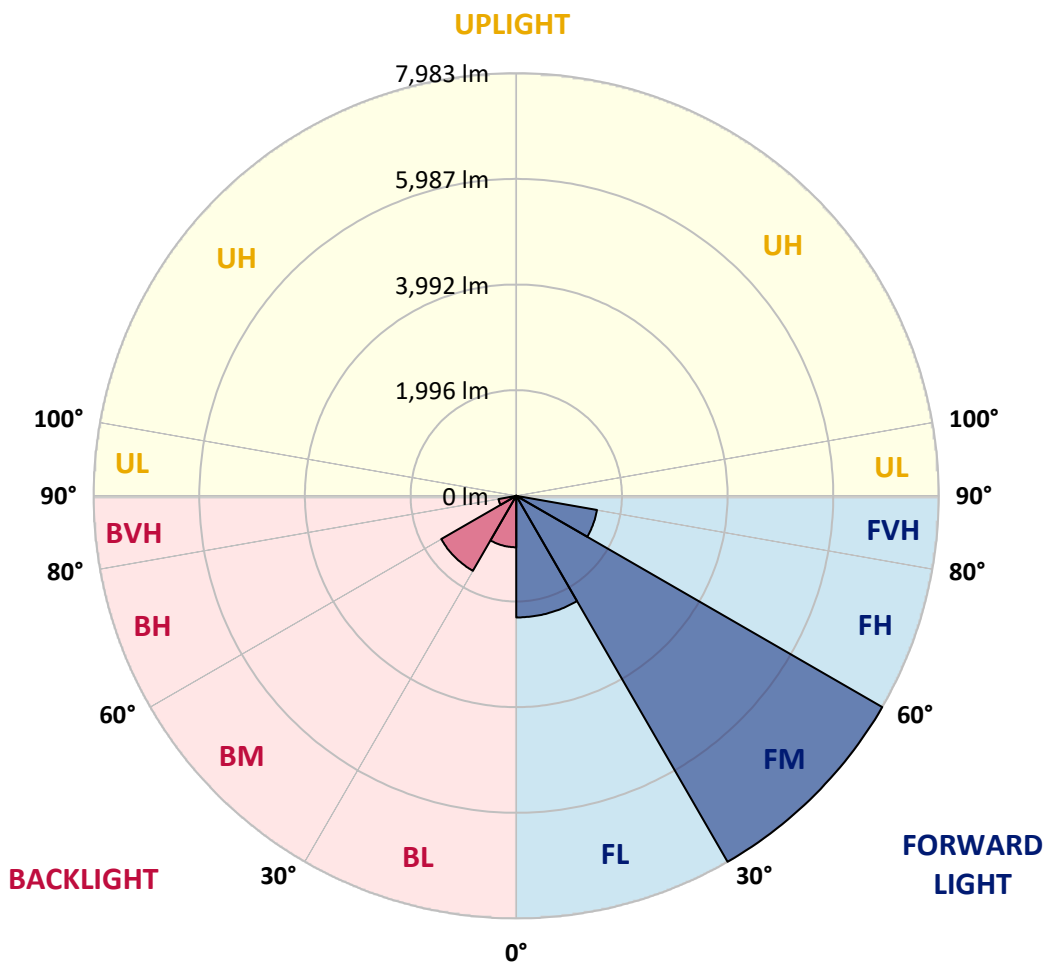


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2297.5	15.5			
FM	(30°-60°)	7983.3	53.9			
FH	(60°-80°)	1548.6	10.5			G1/1800
FVH	(80°-90°)	13.5	0.1			G1/100
BL	(0°-30°)	972.3	6.6	B2/1000		
BM	(30°-60°)	1636.9	11.1	B2/2500		
BH	(60°-80°)	340.6	2.3	B1/500		G1/500
BVH	(80°-90°)	16.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1
2.5°	7806.8	7686.4	7533.6	7407.3	7219.2	6840.2	6737.3	6614.0	6511.1	6373.0	6179.1
5°	7098.8	7060.5	6990.1	6514.0	6170.2	5711.9	5335.8	5177.2	4968.5	4798.2	4674.7
7.5°	6558.1	6405.3	6182.0	5703.1	5153.6	4663.0	4245.7	4001.9	3725.7	3631.7	3464.2
10°	5979.3	6014.6	5685.5	5012.6	4348.6	3951.9	3693.3	3458.3	3208.6	3044.0	2806.0
12.5°	5794.2	5679.6	5426.9	4595.4	4028.3	3658.1	3343.7	3052.8	2788.4	2523.9	2294.8
15°	5914.7	5738.4	5385.8	4507.3	3781.5	3320.2	2926.5	2532.8	2288.9	1951.0	1712.9
17.5°	6346.6	6205.6	5732.5	4601.3	3655.2	2997.0	2412.3	2006.8	1633.6	1328.1	1207.6
20°	7066.4	6866.7	6273.1	4721.7	3467.1	2606.2	1956.8	1457.4	1104.7	975.5	907.9
22.5°	7771.6	7662.9	6913.7	4953.8	3299.7	2259.5	1469.1	981.4	825.6	802.1	758.1
25°	9114.4	8788.3	7892.1	5374.0	3170.3	1933.4	1107.7	790.4	699.3	681.6	687.5
27.5°	9913.6	9640.3	8797.0	5653.1	3026.3	1683.6	937.3	725.8	664.1	625.9	611.2
30°	10680.4	10363.1	9246.6	5817.7	2717.9	1419.2	831.5	696.3	681.6	625.9	608.2
32.5°	11271.1	10959.6	9896.0	6064.5	2591.5	1248.7	684.6	543.5	505.4	499.5	552.4
35°	12176.0	11844.0	10451.3	6199.7	2494.6	1160.6	593.5	484.8	440.8	423.1	426.1
37.5°	13019.3	12793.0	10965.5	6252.6	2391.7	1134.2	531.8	434.9	396.7	384.9	382.0
40°	13724.4	13219.1	11453.2	6308.3	2347.7	1084.2	493.6	396.7	370.2	352.5	352.5
42.5°	14047.6	13533.5	11999.7	6276.0	2335.9	1004.9	493.6	364.3	343.8	326.1	323.2
45°	13977.2	13768.5	12243.6	6261.3	2335.9	925.5	449.5	355.5	326.1	302.7	296.8
47.5°	14159.3	13886.1	12549.1	6323.1	2288.9	869.7	379.0	373.2	308.5	279.1	273.2
50°	14191.6	14244.5	13081.0	6643.3	2186.0	799.2	296.8	367.3	296.8	252.7	246.8
52°	14403.2	14074.1	13242.6	6813.8	2077.4	746.3	249.8	314.4	285.0	235.1	229.2
52.5°	14112.3	14326.8	13280.8	6875.4	2089.0	711.1	240.9	308.5	279.1	235.1	220.3
55°	13786.2	13991.9	13125.1	7007.7	1915.7	558.3	188.0	223.3	252.7	205.7	196.9
57.5°	11982.1	12190.7	11406.2	6417.1	1560.2	393.8	155.8	167.4	223.3	191.0	182.2
60°	10651.1	10501.2	9572.8	5353.5	1107.7	220.3	123.4	129.3	243.9	176.3	173.3
62.5°	9734.3	9414.1	8000.8	4134.1	675.8	146.9	97.0	99.9	188.0	164.5	164.5
65°	7201.6	6843.1	5315.3	2500.5	332.0	102.9	73.4	79.3	117.5	141.0	141.0
67.5°	4110.6	3972.5	2568.0	1128.3	138.1	64.7	55.8	61.7	91.1	114.6	108.7
70°	1889.3	1695.4	987.2	238.0	64.7	44.1	44.1	50.0	73.4	85.2	79.3
72.5°	552.4	523.0	240.9	38.2	26.4	26.4	29.4	38.2	55.8	64.7	58.8
75°	41.1	26.4	17.7	11.8	11.8	17.7	23.5	38.2	55.8	61.7	50.0
77.5°	2.9	5.9	2.9	2.9	8.8	17.7	26.4	47.0	73.4	76.4	55.8
80°	2.9	2.9	0.0	2.9	8.8	17.7	29.4	52.9	82.2	88.1	47.0
82.5°	0.0	0.0	0.0	2.9	11.8	23.5	35.2	55.8	76.4	94.0	50.0
85°	0.0	0.0	0.0	2.9	17.7	32.3	41.1	14.7	8.8	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°	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1
2.5°	6317.2	6240.8	6211.5	6237.9	6229.0	6220.2	6381.8	6346.6	6340.7	6393.6	6381.8
5°	4742.3	4607.2	4977.4	4827.5	4983.3	5077.3	5094.9	5103.7	5212.4	5097.8	5247.7
7.5°	3379.0	3414.2	3411.3	3511.2	3690.4	3849.1	3943.1	3869.6	3863.8	3849.1	3784.4
10°	2700.2	2638.6	2626.8	2603.2	2659.1	2794.2	2908.9	2817.8	2753.1	2841.2	2814.8
12.5°	2206.6	2121.4	2074.4	1980.4	1983.3	2074.4	2074.4	2074.4	2139.0	2189.0	2227.1
15°	1692.4	1621.9	1621.9	1527.8	1507.3	1510.3	1557.3	1563.2	1665.9	1695.4	1710.1
17.5°	1184.1	1145.9	1190.0	1228.2	1204.6	1210.5	1228.2	1234.1	1248.7	1237.0	1266.4
20°	910.9	905.0	916.7	984.3	1034.3	1063.6	1043.1	1013.7	996.1	955.0	955.0
22.5°	772.8	784.5	805.1	860.9	925.5	943.2	919.6	852.1	799.2	793.3	796.3
25°	687.5	699.3	731.6	766.9	802.1	831.5	808.0	758.1	728.6	702.2	702.2
27.5°	634.6	640.5	658.2	684.6	714.0	737.5	728.6	702.2	669.9	658.2	631.8
30°	593.5	602.3	622.9	628.8	655.2	667.0	652.3	646.4	625.9	611.2	602.3
32.5°	573.0	570.0	584.7	590.6	593.5	602.3	584.7	593.5	590.6	567.1	558.3
35°	431.9	455.4	493.6	526.0	534.8	546.5	543.5	531.8	499.5	473.1	440.8
37.5°	387.9	402.5	423.1	449.5	484.8	499.5	493.6	464.2	426.1	408.4	402.5
40°	358.4	367.3	384.9	402.5	437.8	464.2	443.7	417.2	387.9	373.2	364.3
42.5°	332.0	335.0	343.8	361.4	387.9	429.0	393.8	358.4	346.7	337.9	332.0
45°	302.7	302.7	314.4	323.2	352.5	390.8	355.5	323.2	317.3	311.4	308.5
47.5°	279.1	282.1	288.0	299.7	323.2	349.7	326.1	299.7	285.0	282.1	276.2
50°	249.8	252.7	264.4	276.2	305.5	320.3	305.5	276.2	261.5	252.7	252.7
52°	226.2	235.1	246.8	270.3	290.9	314.4	296.8	264.4	246.8	238.0	232.1
52.5°	223.3	229.2	240.9	267.4	290.9	311.4	293.8	261.5	240.9	235.1	229.2
55°	199.8	208.7	229.2	261.5	288.0	311.4	288.0	258.5	229.2	214.5	208.7
57.5°	191.0	196.9	223.3	264.4	285.0	311.4	288.0	258.5	229.2	202.8	196.9
60°	182.2	193.9	223.3	255.7	282.1	314.4	290.9	255.7	223.3	191.0	191.0
62.5°	173.3	182.2	220.3	249.8	270.3	302.7	279.1	249.8	214.5	182.2	179.2
65°	149.9	164.5	193.9	208.7	232.1	261.5	238.0	217.4	188.0	161.6	158.7
67.5°	114.6	120.4	144.0	161.6	176.3	202.8	191.0	164.5	144.0	123.4	123.4
70°	79.3	85.2	102.9	111.7	126.3	141.0	132.2	111.7	97.0	85.2	82.2
72.5°	55.8	58.8	64.7	70.5	76.4	82.2	79.3	64.7	55.8	52.9	50.0
75°	44.1	50.0	52.9	50.0	47.0	44.1	44.1	38.2	32.3	29.4	29.4
77.5°	44.1	47.0	44.1	38.2	32.3	29.4	26.4	23.5	17.7	14.7	17.7
80°	38.2	38.2	38.2	32.3	29.4	26.4	23.5	20.6	17.7	14.7	14.7
82.5°	41.1	41.1	38.2	32.3	32.3	26.4	26.4	23.5	20.6	14.7	14.7
85°	0.0	0.0	0.0	5.9	14.7	26.4	26.4	23.5	20.6	17.7	17.7
87.5°	0.0	0.0	0.0	0.0	2.9	5.9	11.8	14.7	17.7	17.7	17.7
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1
2.5°	6487.6	6599.2	6810.8	7022.4	7151.6	7304.4	7580.6	7727.5	7918.5	8012.5	8197.6
5°	5227.2	5491.6	5585.6	5826.5	6085.1	6343.7	6755.0	7207.5	7583.5	7842.2	8177.1
7.5°	3813.9	3875.5	4239.9	4401.5	4824.6	5294.7	5855.9	6425.9	6901.9	7325.0	7580.6
10°	2858.9	3085.1	3314.3	3622.9	3963.6	4448.5	4986.2	5614.9	6232.0	6655.1	6978.3
12.5°	2297.7	2476.9	2782.5	3114.6	3534.7	3855.0	4395.6	5018.5	5817.7	6232.0	6658.0
15°	1739.4	1968.6	2315.4	2659.1	3102.8	3440.7	3987.2	4771.7	5800.0	6370.1	6737.3
17.5°	1289.8	1445.6	1757.1	2141.9	2594.5	3070.5	3808.0	4745.3	5996.9	6675.7	7054.7
20°	987.2	1040.1	1237.0	1580.7	2071.5	2694.4	3517.1	4859.8	6578.7	7419.0	7804.0
22.5°	799.2	822.7	899.1	1137.1	1613.1	2365.3	3379.0	4939.2	7233.9	8309.3	8823.5
25°	696.3	690.5	740.4	843.3	1260.5	2056.7	3202.7	5238.8	8036.1	9355.3	9816.7
27.5°	634.6	634.6	658.2	731.6	1046.0	1856.9	3091.0	5453.4	8844.0	10275.0	10524.8
30°	602.3	608.2	675.8	699.3	869.7	1618.9	2905.9	5670.8	9616.8	10862.6	11206.4
32.5°	558.3	534.8	520.1	578.9	731.6	1404.5	2720.8	5761.9	10242.7	11582.5	11876.3
35°	429.0	417.2	434.9	478.9	628.8	1222.3	2515.1	5864.7	10962.5	12416.9	12475.7
37.5°	387.9	384.9	396.7	434.9	528.9	1063.6	2368.2	5838.2	11511.9	13107.4	12948.8
40°	358.4	358.4	367.3	399.6	473.1	952.0	2215.4	5814.8	12043.8	13883.1	13418.9
42.5°	335.0	335.0	349.7	370.2	449.5	878.5	2100.8	5782.5	12490.4	14359.1	13695.1
45°	302.7	311.4	335.0	355.5	455.4	828.6	2015.6	5659.0	12643.2	14353.3	13562.9
47.5°	279.1	290.9	314.4	343.8	411.3	813.9	1956.8	5550.3	12590.3	14000.6	13148.6
50°	252.7	267.4	299.7	349.7	349.7	784.5	1895.2	5647.3	12552.1	13727.4	12751.9
52°	235.1	246.8	288.0	340.9	305.5	722.8	1856.9	5835.4	12707.8	13692.2	12575.6
52.5°	232.1	240.9	279.1	335.0	290.9	711.1	1830.5	5879.4	12757.8	13604.0	12696.1
55°	205.7	217.4	255.7	261.5	238.0	584.7	1745.3	5979.3	12511.0	13430.7	12581.5
57.5°	193.9	199.8	226.2	214.5	205.7	440.8	1501.4	5823.6	11112.4	11929.2	11705.9
60°	179.2	185.1	211.5	167.4	173.3	308.5	1128.3	5056.7	8923.4	9940.0	10342.5
62.5°	173.3	170.4	199.8	135.1	146.9	223.3	796.3	4110.6	6875.4	8182.9	8879.4
65°	152.8	149.9	144.0	114.6	126.3	173.3	476.0	2682.6	4845.2	6190.9	6572.8
67.5°	117.5	123.4	105.8	91.1	105.8	135.1	264.4	1201.7	2541.6	3713.9	4022.4
70°	82.2	88.1	85.2	79.3	94.0	111.7	152.8	411.3	1051.9	1951.0	2150.8
72.5°	50.0	61.7	64.7	67.6	82.2	97.0	108.7	132.2	279.1	690.5	858.0
75°	29.4	41.1	50.0	58.8	67.6	82.2	91.1	94.0	97.0	129.3	208.7
77.5°	20.6	29.4	44.1	55.8	67.6	82.2	97.0	102.9	97.0	91.1	97.0
80°	17.7	29.4	41.1	52.9	70.5	85.2	97.0	97.0	94.0	82.2	88.1
82.5°	17.7	29.4	44.1	55.8	67.6	82.2	94.0	97.0	88.1	82.2	85.2
85°	20.6	32.3	47.0	58.8	73.4	67.6	61.7	50.0	47.0	38.2	41.1
87.5°	20.6	29.4	29.4	32.3	35.2	35.2	35.2	32.3	26.4	23.5	23.5
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°	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1	7510.1
2.5°	8206.5	8441.5	8432.7	8438.6	8403.4	8165.4	8050.7	7759.9	7842.2	7806.8
5°	8520.8	8753.0	8952.8	8929.3	8658.9	8335.7	7856.8	7404.3	7281.0	7098.8
7.5°	8206.5	8764.7	8949.8	8923.4	8523.8	8109.5	7345.5	6893.1	6678.6	6558.1
10°	7707.0	8353.4	8582.6	8629.6	8359.3	7730.5	7028.2	6302.5	6187.9	5979.3
12.5°	7422.0	7892.1	8033.1	8159.5	8065.4	7595.3	6787.3	6090.9	5932.2	5794.2
15°	7189.9	7469.0	7527.7	7671.7	7727.5	7474.9	6913.7	6320.1	5929.4	5914.7
17.5°	7404.3	7289.8	7075.2	7119.3	7295.6	7477.8	7239.8	6772.7	6393.6	6346.6
20°	7759.9	7254.5	6769.7	6878.4	7025.3	7583.5	7733.4	7404.3	7186.9	7066.4
22.5°	8168.3	7316.2	6672.7	6725.6	7004.8	7821.6	8532.6	8350.5	7945.0	7771.6
25°	8923.4	7486.6	6749.1	6784.3	7166.3	8153.6	9255.5	9390.6	9149.7	9114.4
27.5°	9660.9	7927.4	6916.6	6837.2	7248.6	8476.8	9693.2	10419.0	9995.9	9913.6
30°	10037.0	8285.8	7166.3	7031.2	7589.4	8673.7	9957.7	11088.8	10718.6	10680.4
32.5°	10612.9	8611.9	7360.3	7186.9	7780.4	8917.5	10451.3	11820.5	11462.1	11271.1
35°	10853.9	8967.5	7786.3	7583.5	8326.9	9258.4	10704.0	12472.8	12361.1	12176.0
37.5°	11318.1	9349.5	8288.7	8277.0	8988.0	9702.0	11159.4	13360.1	13339.5	13019.3
40°	11356.3	9766.7	9082.0	9452.3	10010.5	10474.8	11559.0	13607.0	13941.9	13724.4
42.5°	11415.1	10498.3	10454.2	10759.8	11238.7	11138.8	11573.7	13665.7	14177.0	14047.6
45°	11441.5	11229.9	11849.9	12414.0	12613.8	12008.6	11435.6	13554.1	14300.4	13977.2
47.5°	11229.9	11858.7	12978.1	14068.2	14127.0	12543.3	11376.8	13439.4	14373.8	14159.3
50°	11259.3	12252.4	13953.6	14929.2	14714.6	13016.3	11285.7	13369.0	14335.6	14191.6
52°	11188.7	12261.2	14091.7	14911.5	14761.7	12754.9	11130.0	13098.7	14300.4	14403.2
52.5°	11268.1	12208.4	13947.8	14923.3	14729.4	12884.1	11109.4	13248.4	14321.0	14112.3
55°	10994.9	11579.6	13104.5	13518.8	13489.4	11694.2	10477.8	12751.9	13783.2	13786.2
57.5°	9937.1	10037.0	10277.9	10269.1	10134.0	9193.7	8961.6	11726.5	12287.7	11982.1
60°	8755.9	7348.5	6699.2	6434.7	6284.9	6132.1	7927.4	10727.5	10780.4	10651.1
62.5°	7566.0	5094.9	4231.1	4157.6	4192.9	4751.1	7662.9	10330.8	10013.5	9734.3
65°	6105.7	3713.9	3073.4	2976.5	3320.2	3922.5	6202.6	7921.5	7433.7	7201.6
67.5°	3834.4	2709.0	2077.4	1895.2	2309.5	2700.2	4075.3	4977.4	4430.9	4110.6
70°	2274.1	1513.2	940.2	843.3	949.1	1439.7	2283.0	2482.8	2053.8	1889.3
72.5°	896.2	555.3	261.5	223.3	232.1	505.4	840.3	819.8	620.0	552.4
75°	240.9	167.4	91.1	73.4	61.7	94.0	135.1	88.1	32.3	41.1
77.5°	111.7	99.9	79.3	61.7	47.0	35.2	17.7	5.9	5.9	2.9
80°	97.0	85.2	73.4	61.7	47.0	29.4	14.7	2.9	2.9	2.9
82.5°	91.1	79.3	67.6	55.8	44.1	29.4	14.7	2.9	0.0	0.0
85°	38.2	50.0	55.8	52.9	47.0	29.4	14.7	2.9	0.0	0.0
87.5°	20.6	17.7	14.7	11.8	8.8	5.9	5.9	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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