

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: P451450

Luminaire Tested: **GALN-SA2B-750-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451450
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-SA2B-750-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 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: 9863 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G3

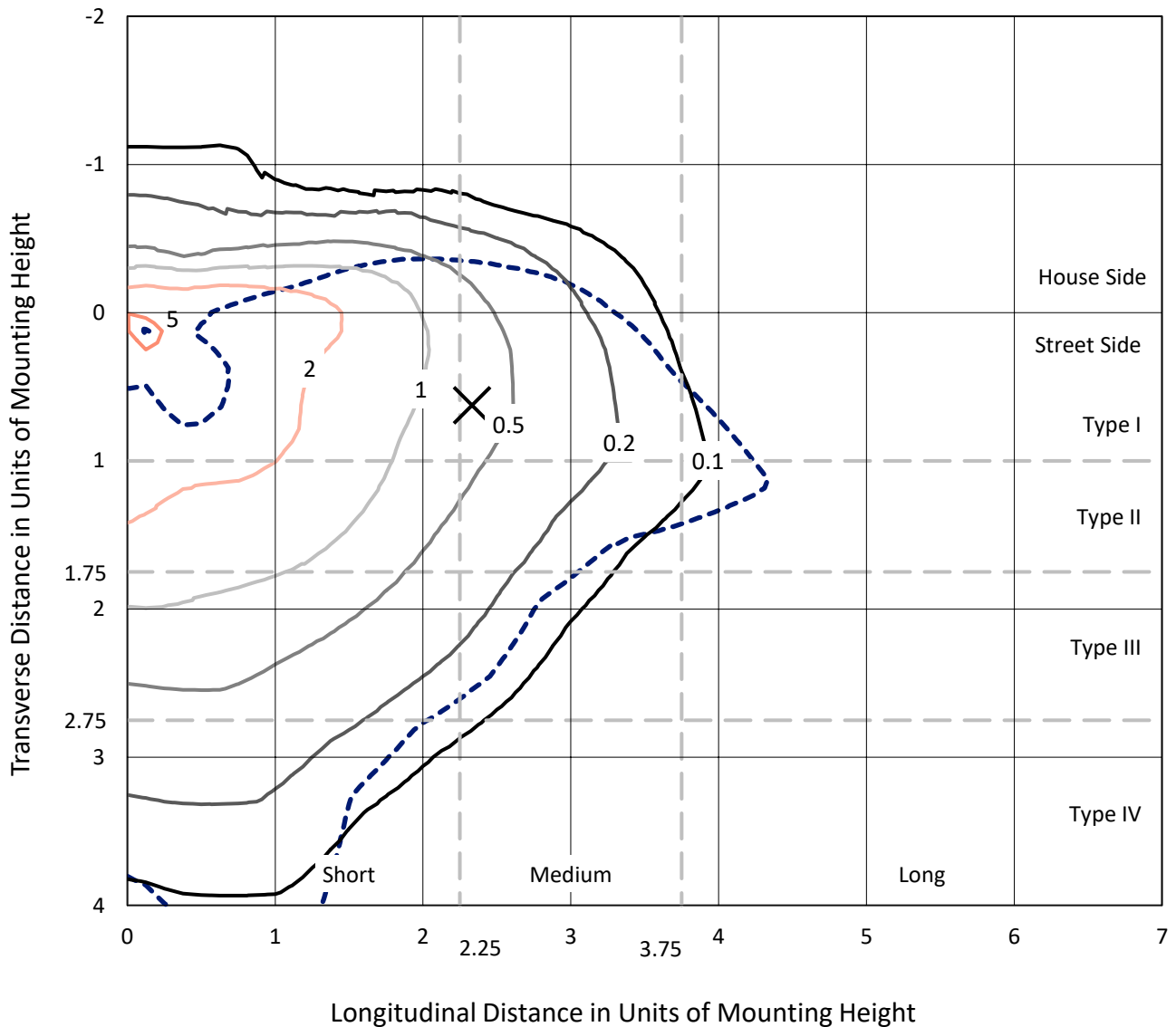
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

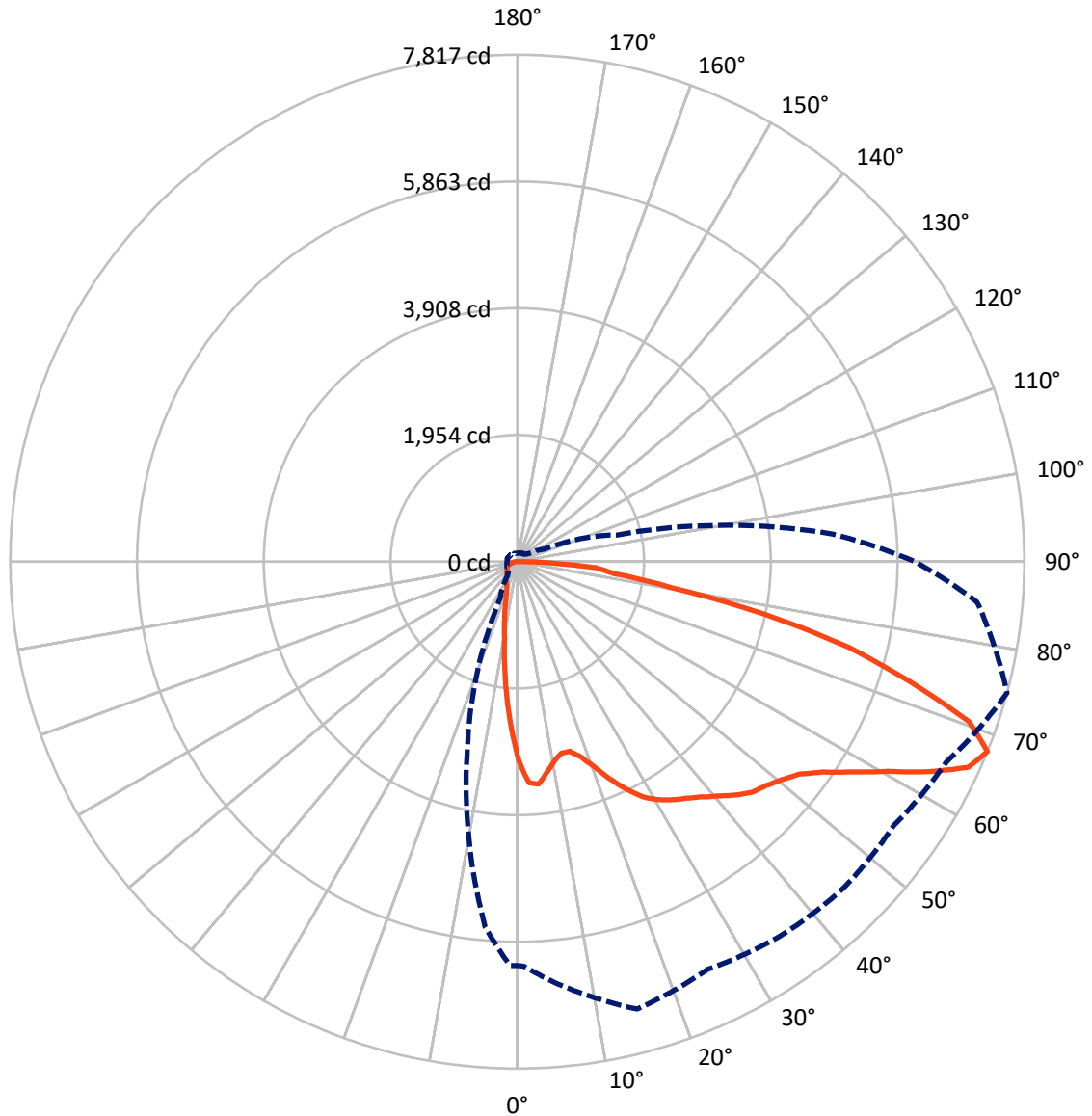
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	1667.1	0.0	1667.1
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	8195.9	0.0	8195.9
	% Fixture	83.1	0.0	83.1
Total	Lumens	9863.0	0.0	9863.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.7	2.4
10°-20°	487.4	4.9
20°-30°	701.4	7.1
30°-40°	1010.2	10.2
40°-50°	1419.1	14.4
50°-60°	1979.1	20.1
60°-70°	2353.1	23.9
70°-80°	1385.8	14.1
80°-90°	293.1	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°	9863.0	100.0
0°-180°	9863.0	100.0

Coefficient of Utilization



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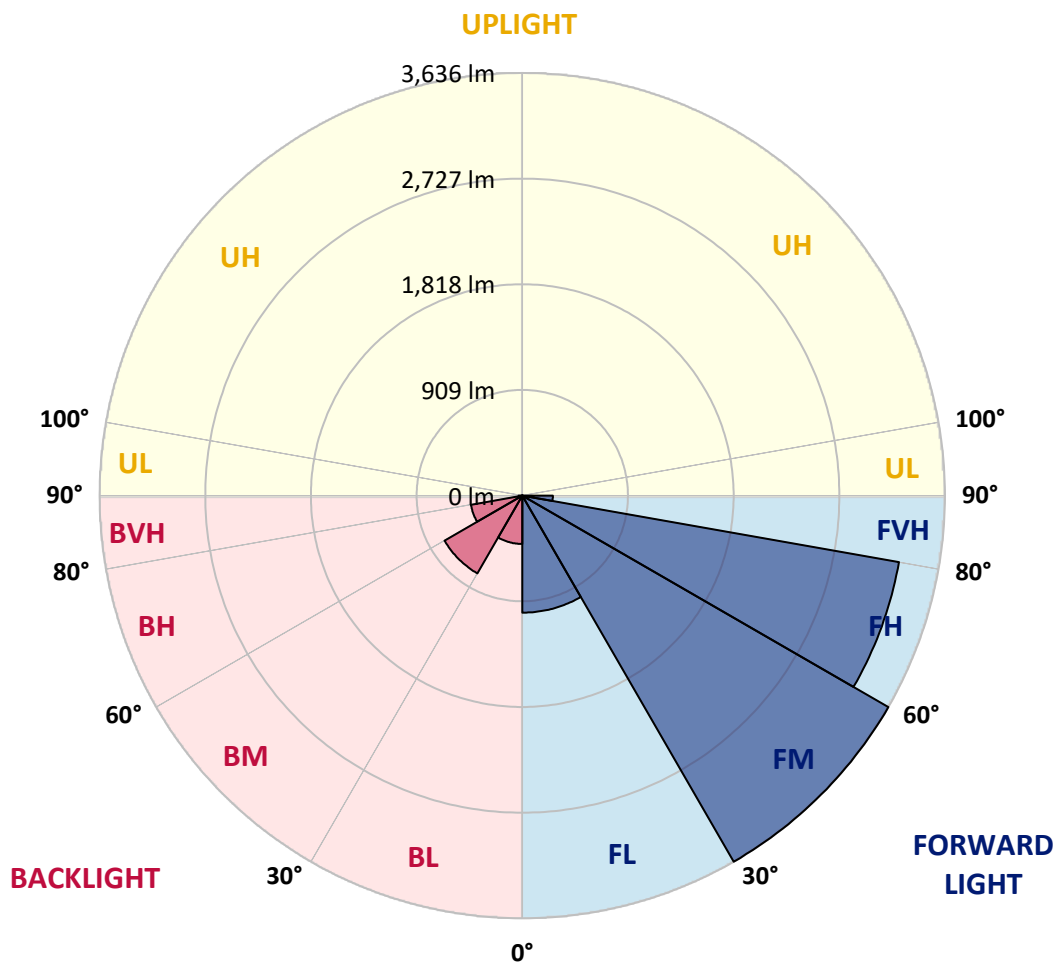
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1006.7	10.2			
FM	(30°-60°)	3636.1	36.9			
FH	(60°-80°)	3290.3	33.4			G2/5000
FVH	(80°-90°)	262.7	2.7			G3/500
BL	(0°-30°)	415.8	4.2	B1/500		
BM	(30°-60°)	772.4	7.8	B1/1000		
BH	(60°-80°)	448.6	4.5	B1/500		G1/500
BVH	(80°-90°)	30.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3081.4	3081.4	3081.4	3081.4	3081.4	3081.4	3081.4	3081.4	3081.4	3081.4	3081.4
2.5°	3322.4	3326.8	3355.3	3438.2	3495.1	3515.9	3530.5	3503.3	3476.7	3412.2	3314.8
5°	3312.3	3338.2	3412.2	3598.2	3744.9	3808.2	3827.1	3745.5	3610.8	3445.1	3245.9
7.5°	3118.8	3153.5	3267.4	3579.2	3837.9	3985.9	3966.3	3818.9	3576.0	3280.7	3002.4
10°	2889.2	2927.7	3065.0	3441.9	3775.3	3978.9	3978.9	3799.3	3476.7	3125.7	2805.0
12.5°	2707.0	2747.5	2904.3	3300.9	3645.0	3837.9	3870.1	3715.8	3405.3	3027.7	2675.4
15°	2646.9	2686.1	2855.0	3215.5	3507.1	3624.7	3635.5	3584.9	3370.5	3034.6	2669.7
17.5°	2721.6	2772.2	2942.9	3240.8	3380.6	3387.6	3395.8	3435.6	3374.3	3161.8	2784.8
20°	2937.2	2991.6	3170.0	3322.4	3269.9	3197.8	3202.2	3304.7	3419.2	3371.7	3059.9
22.5°	3248.4	3295.8	3478.6	3466.0	3223.1	3074.5	3043.5	3186.4	3485.6	3633.6	3352.8
25°	3584.3	3639.9	3849.9	3679.1	3236.4	3001.1	2981.5	3116.9	3554.5	3878.4	3691.1
27.5°	3968.8	4023.2	4188.9	3894.2	3306.0	2995.4	2972.0	3110.5	3616.5	4104.8	4014.3
30°	4254.7	4304.6	4417.2	4075.1	3391.3	3033.4	3004.3	3160.5	3669.6	4259.7	4329.3
32.5°	4479.2	4531.1	4592.4	4187.6	3503.9	3102.3	3048.5	3251.6	3739.2	4378.0	4562.7
35°	4713.2	4774.6	4770.2	4287.6	3608.9	3182.0	3129.5	3383.1	3848.6	4481.1	4858.7
37.5°	5009.9	5034.5	5002.9	4377.4	3734.8	3325.6	3296.5	3578.6	4004.2	4605.7	5204.7
40°	5310.9	5360.3	5197.7	4486.2	3887.8	3595.6	3592.5	3867.6	4188.9	4751.8	5539.9
42.5°	5569.0	5610.7	5379.9	4581.0	4073.2	3925.2	3949.2	4255.3	4431.1	4921.3	5809.3
45°	5763.1	5800.5	5548.1	4672.8	4317.3	4305.9	4447.6	4670.9	4736.6	5073.7	5967.4
47.5°	5928.2	5964.3	5665.1	4811.9	4619.0	4760.7	5007.3	5104.1	4997.8	5161.0	6144.5
50°	6067.4	6078.1	5745.4	4977.6	4993.4	5317.9	5557.0	5619.6	5255.9	5286.3	6298.2
52.5°	6212.2	6198.3	5883.9	5186.3	5398.2	5846.6	6020.6	6085.7	5503.2	5440.6	6522.1
55°	6536.7	6549.9	6194.5	5449.4	5807.4	6365.9	6594.9	6532.2	5777.1	5724.6	6806.7
57.5°	6928.8	6917.4	6631.5	5861.2	6224.2	6849.1	7019.9	6919.3	6142.6	6114.8	7095.1
60°	7081.2	7096.4	6997.1	6303.9	6635.3	7272.2	7446.8	7290.6	6580.9	6568.3	7312.7
62.5°	6928.2	7013.6	7080.6	6697.9	6985.7	7583.4	7756.7	7578.4	7038.2	7129.9	7465.1
65°	6623.3	6641.7	6870.0	7031.9	7154.6	7634.6	7725.1	7630.2	7420.2	7641.6	7458.2
67.5°	6227.4	6243.2	6510.7	7141.3	6937.0	7052.8	7116.0	7088.2	7302.0	7816.8	7114.7
70°	5850.4	5837.8	6120.5	6862.4	6038.9	5863.1	5915.6	5828.3	6300.7	7388.6	6441.2
72.5°	5116.7	5162.3	5465.9	6087.0	4781.5	4495.7	4610.1	4384.3	4846.0	6327.9	5228.1
75°	4008.0	4018.8	4525.4	5108.5	3607.0	3156.1	3311.0	3216.8	3712.0	5278.7	3610.2
77.5°	2775.3	2751.3	3295.8	3901.8	2572.3	2310.4	2313.0	2268.1	2591.9	3886.6	2452.8
80°	1762.7	1726.0	2063.1	2410.4	1767.8	1891.1	1829.1	1827.2	1687.5	2397.7	1483.2
82.5°	952.5	993.0	1303.5	1511.0	1268.1	1461.7	1339.6	1300.4	1158.1	1500.9	948.7
85°	433.9	471.8	695.1	1027.8	963.3	974.0	650.8	767.8	958.2	1218.8	506.6
87.5°	42.4	54.4	143.6	485.1	328.9	259.3	96.8	186.6	241.0	433.2	40.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3081.4	3081.4	3081.4	3081.4	3081.4	3081.4	3081.4	3081.4	3081.4	3081.4	3081.4
2.5°	3275.0	3242.1	3130.1	3037.8	2939.8	2865.1	2767.7	2702.6	2657.7	2590.0	2581.8
5°	3124.4	3044.1	2849.3	2650.7	2479.3	2350.3	2219.4	2099.2	2028.4	2006.2	1977.8
7.5°	2870.8	2735.5	2485.0	2257.3	2060.6	1868.3	1720.3	1615.3	1545.1	1504.0	1454.7
10°	2662.1	2505.2	2200.4	1921.5	1759.6	1640.0	1509.7	1397.1	1310.5	1236.5	1196.0
12.5°	2521.7	2344.6	2001.8	1775.4	1650.1	1523.0	1370.6	1244.1	1116.3	1032.2	996.2
15°	2479.3	2292.1	1940.4	1702.6	1523.0	1356.7	1185.9	1020.8	894.3	814.6	788.1
17.5°	2583.0	2356.6	1939.8	1605.9	1373.7	1175.1	956.3	801.4	671.7	612.2	593.3
20°	2776.6	2480.6	1945.5	1510.4	1211.8	932.3	695.7	568.6	506.6	481.3	471.8
22.5°	3046.6	2669.7	1962.6	1416.1	1034.7	716.0	521.2	456.6	434.5	430.1	428.2
25°	3379.3	2903.7	2020.1	1331.4	885.5	546.5	435.8	406.7	394.0	389.6	389.0
27.5°	3685.5	3206.0	2089.7	1258.6	741.3	471.2	394.0	369.4	356.7	356.1	357.4
30°	3961.8	3459.0	2147.9	1177.0	631.8	418.7	366.8	342.2	330.2	329.5	333.3
32.5°	4200.9	3667.1	2190.9	1096.7	571.1	386.4	342.2	315.6	305.5	303.6	305.5
35°	4456.4	3874.6	2171.3	1034.1	536.3	359.9	323.8	297.9	285.9	280.2	280.2
37.5°	4748.0	4088.3	2137.8	982.2	520.5	337.7	308.0	282.7	270.7	265.0	264.4
40°	5066.2	4302.1	2091.6	936.1	504.7	324.5	297.3	270.7	256.2	250.5	249.2
42.5°	5347.0	4484.9	2053.7	905.7	478.8	327.0	287.8	261.8	243.5	235.9	235.3
45°	5591.1	4669.0	2046.7	888.0	457.3	323.2	285.2	254.9	233.4	225.2	223.9
47.5°	5782.1	4860.6	2086.5	877.9	433.9	303.0	301.7	250.5	224.5	215.7	214.4
50°	6014.9	5132.6	2177.6	857.0	412.4	284.0	318.8	249.8	217.6	206.2	203.0
52.5°	6324.8	5486.7	2301.0	819.7	381.4	266.3	304.2	249.8	209.4	198.0	194.2
55°	6793.5	5938.3	2421.8	767.2	337.7	242.9	274.5	242.2	197.3	187.2	184.7
57.5°	7104.0	6268.5	2498.9	694.5	283.4	225.8	236.5	230.2	185.3	174.6	174.6
60°	7119.8	6357.0	2462.2	602.8	249.2	210.0	205.6	232.1	174.6	163.2	161.9
62.5°	6937.7	6140.1	2271.2	520.5	230.9	192.9	185.9	203.7	163.8	152.4	150.5
65°	6653.0	5586.7	1939.8	481.3	220.7	177.7	167.6	167.0	152.4	141.7	139.1
67.5°	6130.0	4882.1	1593.8	458.5	215.7	160.6	151.2	148.0	139.1	130.3	129.0
70°	5359.0	4089.0	1278.2	449.1	213.1	142.9	135.4	131.6	124.0	117.0	116.4
72.5°	4169.3	3316.7	1055.0	442.7	211.9	126.5	118.3	113.2	108.8	102.5	102.5
75°	2994.8	2440.1	805.1	399.1	196.1	108.8	99.9	96.8	90.4	85.4	86.6
77.5°	1887.9	1643.2	530.0	293.5	151.8	87.3	79.7	77.8	72.7	65.8	70.2
80°	1275.1	1155.5	309.3	184.7	95.5	63.9	61.4	60.7	55.0	47.4	48.1
82.5°	867.8	851.3	160.6	105.0	55.0	37.3	36.1	37.3	31.0	25.3	25.3
85°	339.0	463.0	75.9	41.1	17.7	5.7	8.2	8.9	5.1	2.5	3.2
87.5°	6.3	47.4	1.9	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°	3081.4	3081.4	3081.4	3081.4	3081.4	3081.4	3081.4	3081.4	3081.4	3081.4	3081.4
2.5°	2569.1	2563.4	2572.9	2532.4	2540.7	2555.8	2563.4	2567.9	2630.5	2615.9	2655.8
5°	2004.3	1998.6	2035.3	2040.4	2059.3	2055.6	2073.9	2078.3	2101.1	2109.3	2165.0
7.5°	1457.9	1482.5	1524.3	1545.8	1578.0	1588.2	1578.7	1602.1	1554.6	1588.8	1598.9
10°	1171.3	1141.6	1123.9	1173.2	1179.6	1226.4	1207.4	1192.2	1220.1	1221.3	1247.9
12.5°	975.3	911.4	869.0	882.9	898.1	918.4	921.5	951.9	972.1	991.1	1006.9
15°	764.7	742.5	703.9	685.0	706.5	714.7	734.3	759.6	781.1	786.8	808.3
17.5°	586.9	590.7	584.4	573.0	586.3	592.6	593.9	594.5	600.2	596.4	628.1
20°	472.5	485.7	501.6	504.1	508.5	511.7	506.0	484.5	485.1	498.4	508.5
22.5°	427.6	430.1	447.8	453.5	467.4	461.7	445.3	435.1	433.9	437.0	442.1
25°	392.1	395.9	408.6	417.4	428.2	418.1	406.1	396.6	395.3	398.5	403.5
27.5°	360.5	366.2	377.6	386.4	396.6	387.1	375.7	367.5	366.8	366.2	369.4
30°	335.2	341.5	349.8	359.9	366.8	358.6	347.9	343.4	342.8	341.5	342.8
32.5°	309.9	320.0	328.3	333.3	340.3	333.9	325.7	323.2	318.8	315.0	313.1
35°	281.5	292.2	304.9	311.2	318.1	311.8	306.1	295.4	287.8	287.1	288.4
37.5°	265.0	269.4	279.6	290.3	297.3	294.1	283.4	272.6	270.7	270.7	272.0
40°	250.5	252.4	256.8	270.7	283.4	273.9	260.6	257.4	257.4	256.8	257.4
42.5°	235.9	237.8	237.8	248.6	268.8	253.6	243.5	243.5	243.5	244.1	246.0
45°	222.6	223.3	222.6	230.2	249.2	236.5	229.6	231.5	232.8	234.0	235.3
47.5°	211.2	211.9	211.2	217.6	227.1	222.0	218.2	220.7	223.3	225.2	226.4
50°	201.1	200.5	201.8	205.6	210.0	211.2	208.7	212.5	213.8	216.3	219.5
52.5°	192.3	191.6	192.9	194.8	201.1	201.1	201.1	204.3	206.8	209.4	213.8
55°	182.2	182.8	184.7	187.2	195.4	194.2	194.8	197.3	199.9	203.7	206.2
57.5°	172.7	173.9	176.5	180.3	188.5	187.8	188.5	189.7	192.9	194.8	197.3
60°	161.9	164.4	167.6	170.1	178.4	177.7	180.9	183.4	185.3	185.3	186.6
62.5°	151.2	155.0	158.1	160.0	168.9	169.5	173.9	175.8	177.1	175.8	177.7
65°	140.4	146.1	147.4	149.9	158.8	159.4	164.4	168.9	167.6	166.3	169.5
67.5°	129.7	136.6	136.0	139.1	148.0	149.3	153.7	161.3	158.8	157.5	160.0
70°	117.6	122.7	123.3	125.2	137.2	135.4	142.3	149.3	147.4	148.0	148.0
72.5°	104.4	108.8	108.8	112.6	125.2	122.1	127.8	135.4	135.4	134.7	134.7
75°	88.5	91.1	93.6	99.3	112.6	108.8	112.6	119.5	120.8	119.5	119.5
77.5°	71.5	75.3	76.5	84.1	93.6	93.0	96.8	99.9	102.5	101.2	101.2
80°	50.6	54.4	59.5	67.7	73.4	75.3	77.2	79.7	81.0	81.0	82.2
82.5°	28.5	34.2	38.6	46.8	49.3	58.8	58.2	60.1	58.2	51.2	56.9
85°	6.3	12.0	17.1	21.5	24.7	34.2	36.1	40.5	33.5	31.0	31.0
87.5°	0.0	0.0	0.0	0.0	0.0	5.1	10.1	13.9	12.0	10.1	10.1
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°	3081.4	3081.4	3081.4	3081.4	3081.4	3081.4	3081.4	3081.4	3081.4	3081.4
2.5°	2689.3	2744.3	2810.7	2925.2	3005.5	3092.2	3179.5	3272.4	3297.1	3322.4
5°	2180.2	2288.3	2347.1	2500.8	2662.1	2867.0	3034.6	3218.0	3294.6	3312.3
7.5°	1651.4	1724.8	1879.1	2034.7	2234.5	2449.6	2706.4	2992.3	3081.4	3118.8
10°	1309.2	1409.2	1544.5	1711.5	1886.7	2118.2	2407.8	2741.8	2868.3	2889.2
12.5°	1114.4	1225.7	1373.1	1549.6	1715.3	1889.8	2182.1	2526.8	2662.1	2707.0
15°	891.2	1025.9	1196.0	1382.0	1562.2	1753.2	2049.2	2438.2	2594.4	2646.9
17.5°	700.2	808.9	993.0	1194.8	1408.5	1650.1	2021.4	2480.6	2672.9	2721.6
20°	535.7	613.5	768.5	981.6	1232.1	1548.3	2028.4	2640.6	2870.8	2937.2
22.5°	463.0	502.8	597.1	800.1	1080.3	1459.8	2056.8	2860.1	3137.7	3248.4
25°	419.3	440.2	493.3	626.2	935.4	1373.7	2122.0	3155.4	3510.9	3584.3
27.5°	382.0	397.2	430.1	525.6	803.9	1294.1	2197.9	3483.1	3859.4	3968.8
30°	346.6	366.8	397.8	466.8	719.8	1221.3	2293.4	3748.7	4152.9	4254.7
32.5°	319.4	339.6	368.1	425.7	648.3	1144.8	2350.3	3982.1	4392.6	4479.2
35°	297.3	314.3	344.1	392.8	593.9	1086.6	2338.9	4167.4	4624.7	4713.2
37.5°	281.5	296.0	325.7	361.8	552.8	1025.9	2333.2	4412.2	4907.4	5009.9
40°	266.9	282.1	309.3	341.5	511.7	954.4	2336.4	4655.0	5208.5	5310.9
42.5°	255.5	272.6	294.7	335.8	469.3	896.9	2336.4	4866.3	5470.3	5569.0
45°	246.0	264.4	285.9	335.2	435.8	853.2	2320.6	5047.8	5679.0	5763.1
47.5°	237.8	258.1	289.0	323.8	427.6	821.6	2306.6	5193.3	5849.2	5928.2
50°	232.1	256.2	307.4	310.5	430.1	812.1	2373.7	5376.7	5999.1	6067.4
52.5°	227.7	256.8	306.8	290.9	425.7	818.4	2513.5	5663.2	6207.1	6212.2
55°	218.8	256.2	290.9	268.8	407.3	829.2	2693.1	6079.4	6532.9	6536.7
57.5°	210.0	249.2	270.1	249.8	370.0	829.2	2909.4	6473.4	6925.6	6928.8
60°	201.1	259.3	237.2	233.4	321.3	814.0	3137.7	6646.7	7049.0	7081.2
62.5°	192.3	261.2	211.9	218.8	285.9	777.3	3307.9	6455.1	6882.0	6928.2
65°	182.2	210.6	195.4	203.7	267.5	716.0	3254.1	6104.0	6568.3	6623.3
67.5°	170.1	178.4	177.7	187.8	261.2	625.5	2970.8	5660.0	6230.5	6227.4
70°	155.6	160.0	161.9	172.7	249.2	555.3	2475.5	5083.9	5779.6	5850.4
72.5°	140.4	144.2	146.1	155.6	237.2	515.5	1921.5	4290.1	5006.1	5116.7
75°	124.0	126.5	129.0	137.2	224.5	456.6	1368.7	3275.0	3834.1	4008.0
77.5°	106.9	106.9	110.1	118.3	189.1	377.0	918.4	2297.2	2597.6	2775.3
80°	86.6	87.3	86.0	94.9	139.1	258.1	521.8	1534.4	1728.6	1762.7
82.5°	66.4	64.5	65.1	69.6	103.7	175.8	278.3	953.1	971.5	952.5
85°	41.7	41.7	40.5	45.5	66.4	91.7	151.8	583.8	456.0	433.9
87.5°	17.1	13.9	15.8	18.3	31.6	37.3	59.5	120.2	46.2	42.4
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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