

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P637271

Luminaire Tested: GWS-SA4C-740-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-740-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11753.1 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

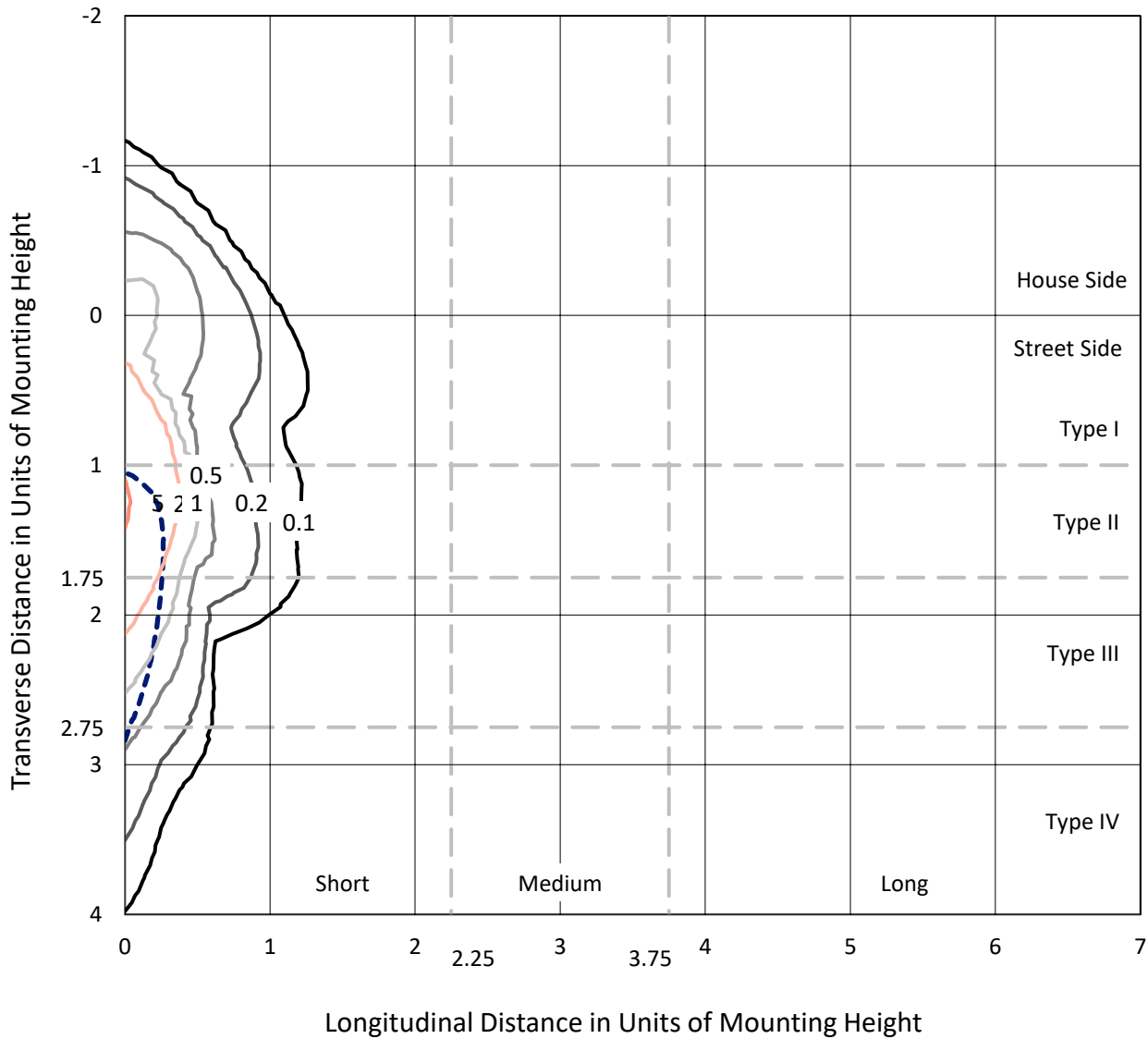
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

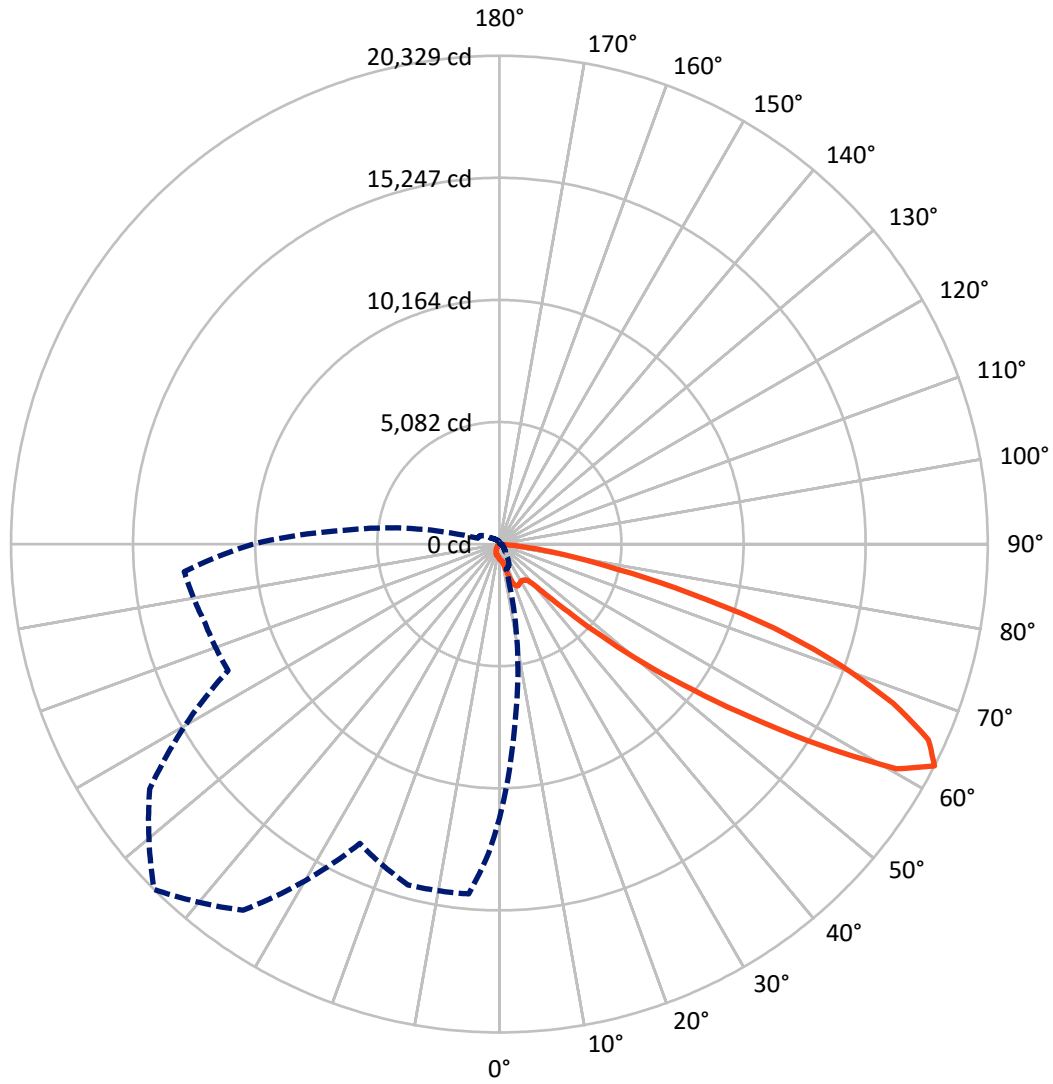
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1365.6	0.0	1365.6
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	10387.5	0.0	10387.5
	% Fixture	88.4	0.0	88.4
Total	Lumens	11753.1	0.0	11753.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.6	0.4
10°-20°	180.4	1.5
20°-30°	407.6	3.5
30°-40°	702.1	6.0
40°-50°	1324.5	11.3
50°-60°	2957.2	25.2
60°-70°	3955.2	33.7
70°-80°	1983.4	16.9
80°-90°	190.1	1.6
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°	11753.1	100.0
0°-180°	11753.1	100.0

Coefficient of Utilization



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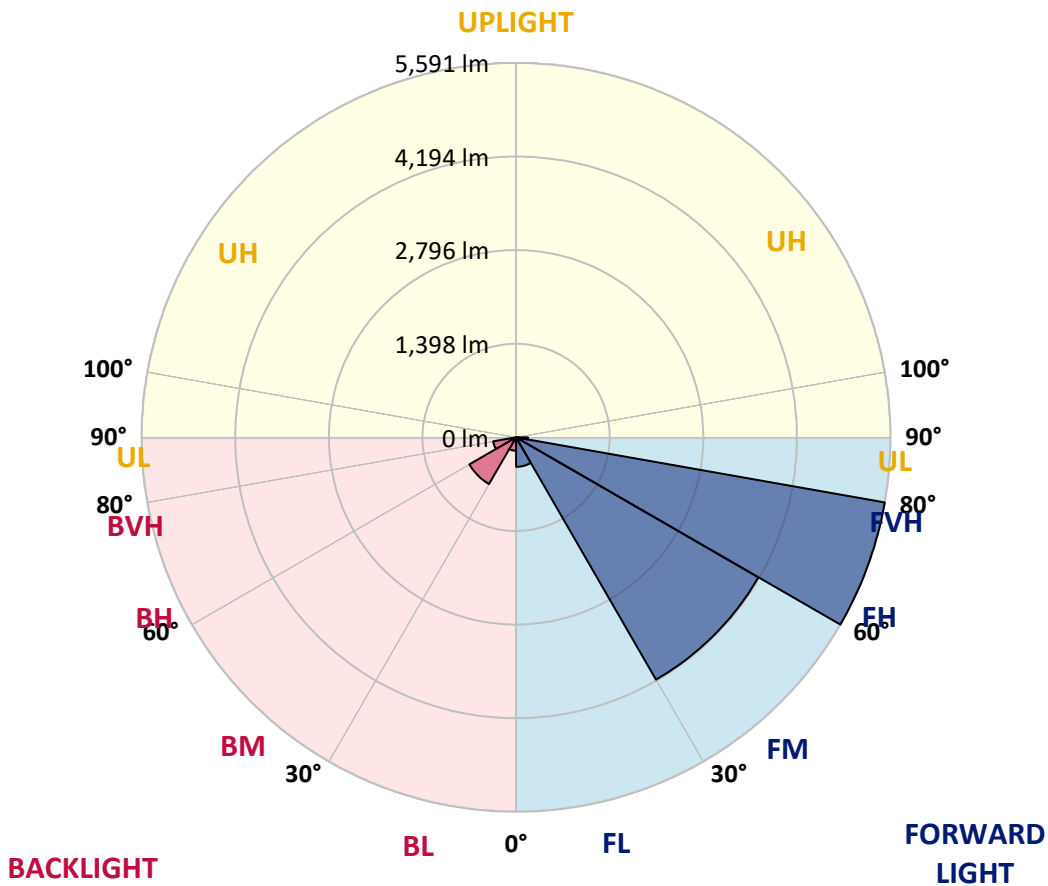
CATALOG NUMBER: GWS-SA4C-740-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	440.2	3.7			
FM (30°-60°)	4178.6	35.6			
FH (60°-80°)	5591.3	47.6			G3/7500
FVH (80°-90°)	177.5	1.5			G2/225
BL (0°-30°)	200.4	1.7	B1/500		
BM (30°-60°)	805.2	6.9	B1/1000		
BH (60°-80°)	347.3	3.0	B1/500		G1/500
BVH (80°-90°)	12.6	0.1			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	609.5	609.5	609.5	609.5	609.5	609.5	609.5	609.5	609.5	609.5	609.5
2.5°	602.6	601.2	598.4	590.0	583.1	578.9	570.6	570.6	569.2	566.4	560.8
5°	583.1	577.5	572.0	556.7	540.0	530.2	519.1	517.7	517.7	514.9	513.5
7.5°	552.5	546.9	540.0	514.9	499.6	489.9	480.1	478.7	474.5	474.5	474.5
10°	535.8	527.4	516.3	488.5	473.2	464.8	457.8	453.7	450.9	446.7	445.3
12.5°	572.0	556.7	533.0	482.9	462.0	450.9	442.5	439.8	431.4	425.8	421.7
15°	684.7	647.1	599.8	495.4	457.8	441.1	430.0	424.4	417.5	407.7	400.8
17.5°	869.8	815.5	736.2	535.8	453.7	432.8	418.9	409.1	399.4	388.3	379.9
20°	1125.8	1045.1	950.5	609.5	453.7	423.1	406.4	393.8	379.9	367.4	357.6
22.5°	1451.5	1370.8	1209.3	734.8	459.2	410.5	391.0	374.3	357.6	346.5	335.4
25°	1816.1	1702.0	1551.7	886.5	474.5	393.8	373.0	356.3	340.9	327.0	314.5
27.5°	2222.4	2098.6	1898.2	1102.2	507.9	377.1	353.5	338.2	324.2	310.3	293.6
30°	2596.8	2523.0	2318.5	1361.0	562.2	366.0	338.2	324.2	310.3	292.2	276.9
32.5°	3046.3	2915.5	2747.1	1656.0	634.6	354.9	325.6	306.2	295.0	278.3	261.6
35°	3498.6	3387.2	3166.0	2019.3	715.3	343.7	310.3	292.2	282.5	263.0	244.9
37.5°	3964.7	3939.7	3721.2	2421.4	794.6	331.2	292.2	281.1	271.4	249.1	228.2
40°	4424.0	4378.1	4176.3	2880.7	843.3	317.3	276.9	270.0	258.8	233.8	210.1
42.5°	4863.7	4828.9	4632.7	3320.4	836.4	304.8	261.6	253.3	244.9	219.9	190.7
45°	5403.7	5346.6	5098.9	3646.1	765.4	318.7	246.3	232.4	231.0	207.4	171.2
47.5°	6414.0	6226.1	5805.9	3896.6	694.4	354.9	229.6	212.9	222.7	194.8	151.7
50°	7829.3	7608.0	6999.9	4091.4	693.0	402.2	226.8	194.8	215.7	185.1	135.0
52.5°	9251.5	8861.9	8122.9	4195.8	744.5	437.0	251.9	176.7	207.4	175.3	122.5
55°	10613.9	9805.4	8593.3	3850.6	784.9	474.5	297.8	167.0	192.0	164.2	115.5
57.5°	11912.3	10563.8	8797.9	3046.3	919.9	489.9	325.6	171.2	169.8	150.3	109.9
60°	12090.5	10527.7	8384.6	1771.5	1014.5	463.4	314.5	190.7	148.9	133.6	100.2
62.5°	11416.9	9827.7	7442.4	1105.0	942.1	453.7	279.7	217.1	135.0	118.3	87.7
65°	10394.1	8729.7	6205.3	712.5	713.9	503.8	244.9	212.9	126.6	104.4	75.1
67.5°	8795.1	7306.0	4888.8	477.3	403.6	430.0	214.3	146.1	123.9	89.1	58.4
70°	6419.6	5200.5	3182.7	318.7	240.8	343.7	179.5	104.4	116.9	73.8	41.7
72.5°	4692.6	3494.4	1777.1	208.7	136.4	200.4	132.2	75.1	90.5	54.3	29.2
75°	3377.5	2404.7	1014.5	133.6	90.5	109.9	86.3	51.5	58.4	43.1	26.4
77.5°	1625.4	1171.7	460.6	73.8	61.2	55.7	45.9	32.0	36.2	39.0	23.7
80°	61.2	45.9	34.8	36.2	39.0	25.0	20.9	16.7	20.9	26.4	12.5
82.5°	0.0	0.0	0.0	4.2	5.6	7.0	8.3	7.0	8.3	9.7	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	609.5	609.5	609.5	609.5	609.5	609.5	609.5	609.5	609.5	609.5	609.5
2.5°	565.0	562.2	565.0	567.8	570.6	573.4	569.2	572.0	574.7	567.8	570.6
5°	520.5	519.1	527.4	531.6	537.2	540.0	537.2	537.2	535.8	527.4	527.4
7.5°	481.5	482.9	489.9	499.6	506.6	510.7	507.9	506.6	502.4	489.9	489.9
10°	452.3	452.3	463.4	471.8	481.5	485.7	482.9	478.7	474.5	462.0	460.6
12.5°	428.6	428.6	437.0	450.9	462.0	467.6	466.2	460.6	453.7	441.1	439.8
15°	406.4	405.0	417.5	430.0	445.3	452.3	449.5	445.3	432.8	421.7	418.9
17.5°	384.1	382.7	393.8	410.5	427.2	437.0	435.6	425.8	414.7	400.8	398.0
20°	361.8	359.0	373.0	389.7	406.4	416.1	413.3	405.0	391.0	377.1	374.3
22.5°	339.6	338.2	347.9	361.8	377.1	385.5	384.1	377.1	363.2	350.7	350.7
25°	314.5	314.5	321.5	331.2	342.3	346.5	347.9	345.1	336.8	329.8	329.8
27.5°	293.6	289.5	292.2	295.0	300.6	307.5	307.5	310.3	311.7	308.9	310.3
30°	276.9	270.0	265.8	260.2	257.5	260.2	263.0	272.8	282.5	288.1	290.9
32.5°	257.5	249.1	238.0	222.7	212.9	210.1	218.5	236.6	254.7	267.2	274.2
35°	238.0	226.8	206.0	183.7	171.2	167.0	176.7	197.6	224.1	246.3	256.1
37.5°	218.5	203.2	174.0	147.5	133.6	130.8	140.6	162.8	193.4	224.1	236.6
40°	196.2	178.1	143.3	115.5	104.4	101.6	109.9	132.2	164.2	199.0	218.5
42.5°	174.0	151.7	115.5	91.8	80.7	80.7	91.8	108.5	137.8	175.3	199.0
45°	151.7	128.0	94.6	73.8	66.8	68.2	75.1	91.8	115.5	154.5	176.7
47.5°	130.8	109.9	77.9	61.2	55.7	57.1	65.4	79.3	98.8	133.6	157.3
50°	112.7	93.2	68.2	51.5	47.3	50.1	58.4	71.0	87.7	118.3	137.8
52.5°	101.6	83.5	62.6	44.5	41.7	44.5	52.9	64.0	79.3	104.4	123.9
55°	96.0	82.1	62.6	40.4	36.2	39.0	47.3	58.4	71.0	94.6	111.3
57.5°	94.6	84.9	66.8	36.2	30.6	33.4	41.7	52.9	65.4	86.3	100.2
60°	89.1	80.7	65.4	29.2	23.7	27.8	34.8	45.9	59.8	80.7	93.2
62.5°	77.9	71.0	57.1	23.7	18.1	20.9	29.2	40.4	54.3	73.8	87.7
65°	64.0	57.1	44.5	15.3	11.1	13.9	22.3	34.8	47.3	66.8	79.3
67.5°	47.3	40.4	30.6	9.7	5.6	9.7	18.1	29.2	43.1	59.8	72.4
70°	29.2	23.7	16.7	5.6	4.2	8.3	16.7	27.8	39.0	55.7	68.2
72.5°	16.7	11.1	7.0	2.8	4.2	8.3	16.7	27.8	37.6	52.9	64.0
75°	12.5	7.0	2.8	1.4	2.8	7.0	15.3	25.0	36.2	50.1	61.2
77.5°	8.3	4.2	1.4	0.0	1.4	5.6	13.9	23.7	33.4	47.3	58.4
80°	1.4	0.0	0.0	0.0	0.0	4.2	12.5	20.9	30.6	41.7	51.5
82.5°	0.0	0.0	0.0	0.0	0.0	1.4	9.7	18.1	26.4	34.8	41.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	5.6	13.9	20.9	26.4	29.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	13.9	16.7	19.5
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	609.5	609.5	609.5	609.5	609.5	609.5	609.5	609.5	609.5	609.5	609.5
2.5°	569.2	577.5	577.5	583.1	590.0	602.6	609.5	619.3	626.2	633.2	636.0
5°	526.0	527.4	528.8	531.6	540.0	553.9	566.4	581.7	599.8	613.7	622.1
7.5°	489.9	489.9	489.9	494.0	502.4	512.1	524.6	545.5	566.4	583.1	597.0
10°	459.2	463.4	464.8	471.8	481.5	494.0	507.9	526.0	549.7	572.0	597.0
12.5°	439.8	443.9	450.9	457.8	467.6	481.5	496.8	520.5	569.2	615.1	668.0
15°	421.7	427.2	435.6	445.3	456.5	471.8	488.5	537.2	651.3	737.6	821.1
17.5°	402.2	410.5	421.7	431.4	445.3	462.0	482.9	577.5	801.6	944.9	1086.9
20°	377.1	388.3	400.8	416.1	432.8	452.3	482.9	661.0	1018.7	1224.6	1412.5
22.5°	353.5	364.6	379.9	399.4	418.9	438.4	489.9	787.7	1298.4	1558.6	1796.6
25°	334.0	347.9	363.2	379.9	402.2	424.4	506.6	965.8	1635.2	1970.5	2138.9
27.5°	315.9	332.6	347.9	361.8	381.3	406.4	544.1	1203.8	2033.2	2374.1	2506.3
30°	297.8	317.3	332.6	346.5	366.0	392.4	601.2	1507.1	2475.7	2806.9	2820.8
32.5°	282.5	300.6	318.7	332.6	350.7	381.3	680.5	1862.0	2929.4	3249.4	3118.6
35°	265.8	286.7	303.4	318.7	338.2	371.6	772.4	2244.7	3387.2	3655.8	3415.1
37.5°	249.1	272.8	293.6	304.8	324.2	361.8	839.2	2644.1	3854.8	4052.4	3675.3
40°	233.8	260.2	283.9	295.0	304.8	349.3	848.9	3053.2	4329.4	4443.5	3920.2
42.5°	217.1	246.3	267.2	282.5	290.9	340.9	790.4	3398.4	4727.4	4833.1	4240.3
45°	199.0	233.8	250.5	261.6	278.3	346.5	715.3	3665.5	5182.4	5364.7	4767.7
47.5°	180.9	219.9	233.8	242.1	264.4	379.9	687.5	3843.7	5932.5	6311.0	5657.0
50°	164.2	207.4	222.7	221.3	261.6	423.1	718.1	3978.7	7059.7	7505.0	6876.0
52.5°	146.1	193.4	211.5	206.0	282.5	456.5	779.3	4085.8	7926.7	8905.0	8514.0
55°	130.8	178.1	194.8	193.4	321.5	481.5	826.6	3520.8	8285.7	10206.2	10359.3
57.5°	119.7	161.4	175.3	199.0	346.5	481.5	956.0	2499.4	8292.7	11163.6	12808.5
60°	109.9	146.1	155.9	218.5	336.8	456.5	946.3	1530.8	7642.8	11098.2	14111.1
62.5°	101.6	132.2	144.7	224.1	297.8	452.3	854.5	949.1	6518.4	10253.5	13166.2
65°	94.6	121.1	139.2	206.0	270.0	484.3	576.1	681.9	5286.8	9290.5	12082.1
67.5°	87.7	111.3	147.5	168.4	244.9	432.8	416.1	484.3	4149.8	8234.3	11087.1
70°	82.1	105.8	155.9	137.8	214.3	338.2	295.0	367.4	3177.1	6870.5	9685.7
72.5°	77.9	98.8	130.8	108.5	174.0	261.6	206.0	267.2	2076.3	5363.3	7896.1
75°	73.8	90.5	96.0	87.7	129.4	171.2	155.9	179.5	1237.2	3920.2	5991.0
77.5°	72.4	84.9	77.9	71.0	87.7	101.6	118.3	121.1	604.0	1960.8	3139.5
80°	64.0	76.5	66.8	58.4	59.8	66.8	87.7	80.7	137.8	498.2	837.8
82.5°	50.1	59.8	55.7	48.7	48.7	48.7	58.4	54.3	44.5	224.1	378.5
85°	34.8	41.7	41.7	39.0	37.6	37.6	36.2	34.8	12.5	13.9	20.9
87.5°	23.7	29.2	30.6	29.2	25.0	22.3	19.5	16.7	5.6	0.0	2.8
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°	358°	360°
0°	609.5	609.5	609.5	609.5	609.5	609.5	609.5	609.5	609.5	609.5
2.5°	645.7	649.9	649.9	644.3	640.1	629.0	617.9	606.7	604.0	602.6
5°	645.7	662.4	670.8	669.4	659.6	641.5	617.9	592.8	585.9	583.1
7.5°	636.0	668.0	693.0	697.2	679.1	647.1	604.0	566.4	556.7	552.5
10°	658.2	720.9	771.0	777.9	757.0	694.4	624.8	560.8	545.5	535.8
12.5°	777.9	880.9	942.1	971.4	931.0	851.7	736.2	622.1	587.3	572.0
15°	1020.1	1166.2	1283.1	1283.1	1245.5	1105.0	958.8	773.7	726.4	684.7
17.5°	1330.4	1514.1	1617.1	1605.9	1548.9	1450.1	1274.7	1008.9	912.9	869.8
20°	1683.9	1793.8	1817.5	1810.5	1785.5	1728.4	1607.3	1322.0	1192.6	1125.8
22.5°	1990.0	1960.8	1926.0	1898.2	1891.2	1907.9	1891.2	1671.3	1569.8	1451.5
25°	2197.4	2031.8	1927.4	1877.3	1901.0	1997.0	2101.4	2019.3	1938.5	1816.1
27.5°	2310.1	2023.4	1873.1	1821.6	1862.0	1998.4	2225.2	2364.4	2280.9	2222.4
30°	2371.3	2016.5	1838.3	1788.2	1849.5	2020.6	2311.5	2687.2	2690.0	2596.8
32.5°	2459.0	2061.0	1845.3	1799.4	1881.5	2087.4	2420.0	3015.7	3096.4	3046.3
35°	2557.8	2129.2	1877.3	1835.6	1937.1	2176.5	2541.1	3346.9	3515.2	3498.6
37.5°	2651.0	2205.7	1952.5	1912.1	2022.0	2253.0	2658.0	3672.5	3906.3	3964.7
40°	2748.5	2312.9	2183.5	2222.4	2283.7	2374.1	2762.4	3955.0	4336.3	4424.0
42.5°	2978.1	2684.4	2882.1	2955.8	2964.2	2777.7	2990.6	4316.8	4759.4	4863.7
45°	3490.2	3345.5	3911.9	4016.2	3962.0	3397.0	3540.3	4838.7	5350.8	5403.7
47.5°	4137.3	4204.1	5321.6	5682.0	5356.4	4127.6	4206.9	5936.7	6433.5	6414.0
50°	4891.6	5207.5	6922.0	7772.2	6992.9	5076.7	4975.1	7286.6	7889.1	7829.3
52.5°	5783.6	6373.7	8845.2	10053.1	9315.6	6144.0	6102.3	9074.8	9442.2	9251.5
55°	6906.6	7499.5	11057.9	12745.9	11696.6	7446.6	7589.9	11148.3	11219.3	10613.9
57.5°	8582.2	8967.6	13665.8	15833.9	14182.1	9216.7	10256.3	13907.9	13059.0	11912.3
60°	11624.3	10856.1	16186.0	18992.9	16826.2	11706.4	13772.9	15543.1	13671.3	12090.5
62.5°	12683.3	12459.2	17764.1	20328.9	18604.7	13750.7	14687.2	14616.3	12878.1	11416.9
65°	11078.7	12059.8	17481.6	19623.3	18376.4	13413.9	13180.1	13593.4	11984.7	10394.1
67.5°	10234.0	11121.9	16411.5	17676.4	17111.4	12271.4	11748.1	11635.4	10061.5	8795.1
70°	9382.3	10261.9	14859.8	15017.0	14754.0	10409.4	9721.9	8966.3	7520.4	6419.6
72.5°	8358.1	8842.4	12706.9	11961.0	11663.2	8175.8	8031.1	6752.2	5637.5	4692.6
75°	7289.3	7148.8	9907.0	8209.2	8431.9	6361.1	6782.8	4958.4	4130.3	3377.5
77.5°	5302.1	5197.7	6635.3	4986.2	5522.0	4166.5	3743.5	1978.9	1884.3	1625.4
80°	2958.6	3566.7	3583.4	2794.4	3486.0	2716.5	936.6	65.4	41.7	61.2
82.5°	1374.9	1533.6	1942.7	1295.6	1988.6	1345.7	193.4	0.0	0.0	0.0
85°	445.3	651.3	545.5	190.7	481.5	455.1	32.0	0.0	0.0	0.0
87.5°	26.4	54.3	13.9	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

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