

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: P639196

Luminaire Tested: GWS-SA5B-735-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639196
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-SA5B-735-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10603.3 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

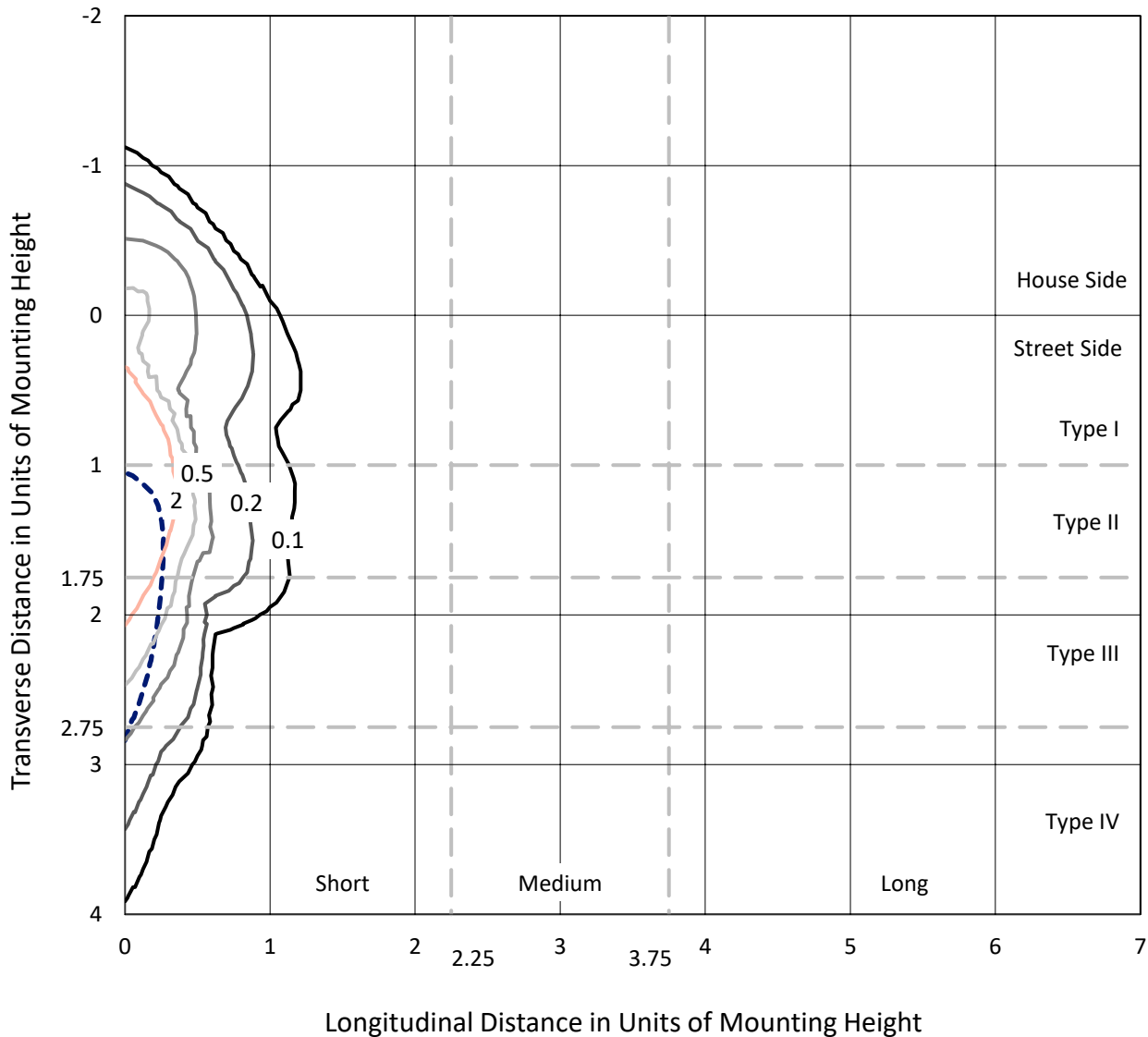
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

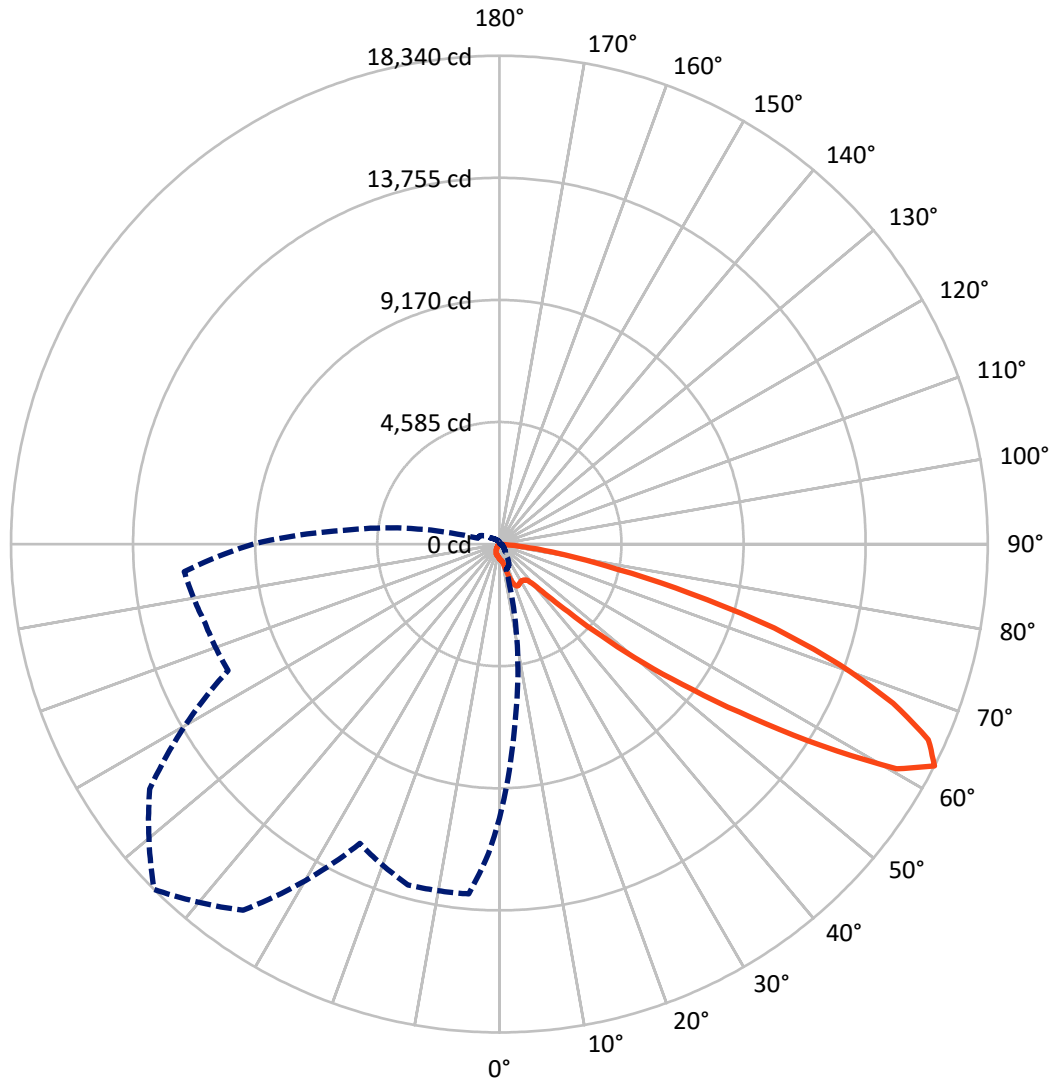
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 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	1232.0	0.0	1232.0
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	9371.3	0.0	9371.3
	% Fixture	88.4	0.0	88.4
Total	Lumens	10603.3	0.0	10603.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.5	0.4
10°-20°	162.8	1.5
20°-30°	367.7	3.5
30°-40°	633.4	6.0
40°-50°	1194.9	11.3
50°-60°	2667.9	25.2
60°-70°	3568.3	33.7
70°-80°	1789.4	16.9
80°-90°	171.5	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°	10603.3	100.0
0°-180°	10603.3	100.0

Coefficient of Utilization

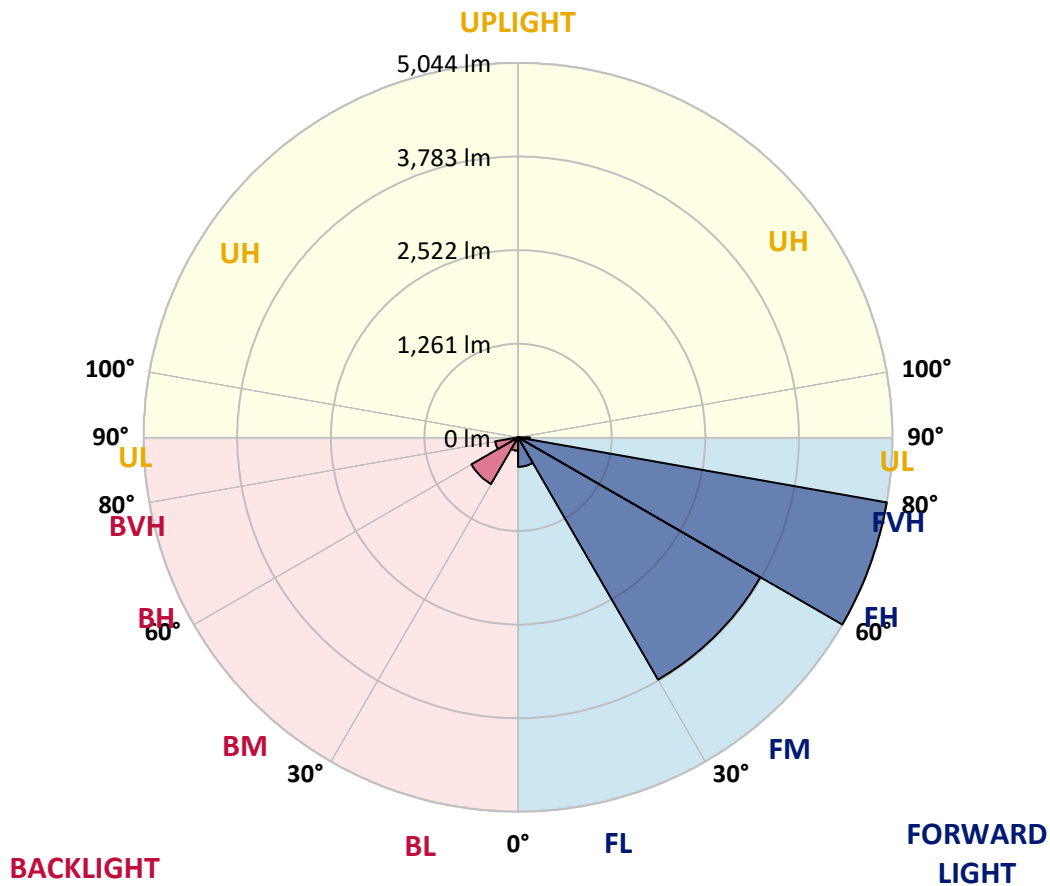


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	397.1	3.7			
FM (30°-60°)	3769.8	35.6			
FH (60°-80°)	5044.3	47.6			G3/7500
FVH (80°-90°)	160.1	1.5			G2/225
BL (0°-30°)	180.8	1.7	B1/500		
BM (30°-60°)	726.4	6.9	B1/1000		
BH (60°-80°)	313.3	3.0	B1/500		G1/500
BVH (80°-90°)	11.4	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°	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9
2.5°	543.6	542.4	539.9	532.3	526.0	522.3	514.7	514.7	513.5	511.0	506.0
5°	526.0	521.0	516.0	502.2	487.1	478.3	468.3	467.0	467.0	464.5	463.3
7.5°	498.4	493.4	487.1	464.5	450.7	441.9	433.1	431.9	428.1	428.1	428.1
10°	483.4	475.8	465.8	440.7	426.9	419.3	413.1	409.3	406.8	403.0	401.8
12.5°	516.0	502.2	480.9	435.7	416.8	406.8	399.2	396.7	389.2	384.2	380.4
15°	617.7	583.8	541.1	447.0	413.1	398.0	387.9	382.9	376.6	367.9	361.6
17.5°	784.7	735.7	664.2	483.4	409.3	390.5	377.9	369.1	360.3	350.3	342.7
20°	1015.7	942.9	857.5	549.9	409.3	381.7	366.6	355.3	342.7	331.4	322.7
22.5°	1309.5	1236.7	1091.0	662.9	414.3	370.4	352.8	337.7	322.7	312.6	302.6
25°	1638.4	1535.5	1399.9	799.7	428.1	355.3	336.5	321.4	307.6	295.0	283.7
27.5°	2005.0	1893.3	1712.5	994.3	458.3	340.2	318.9	305.1	292.5	280.0	264.9
30°	2342.7	2276.2	2091.6	1227.9	507.2	330.2	305.1	292.5	280.0	263.7	249.8
32.5°	2748.3	2630.2	2478.3	1494.0	572.5	320.1	293.8	276.2	266.2	251.1	236.0
35°	3156.3	3055.9	2856.2	1821.7	645.3	310.1	280.0	263.7	254.9	237.3	221.0
37.5°	3576.9	3554.3	3357.2	2184.5	716.9	298.8	263.7	253.6	244.8	224.7	205.9
40°	3991.2	3949.8	3767.7	2598.9	760.8	286.3	249.8	243.6	233.5	210.9	189.6
42.5°	4387.9	4356.5	4179.5	2995.6	754.5	275.0	236.0	228.5	221.0	198.4	172.0
45°	4875.0	4823.6	4600.1	3289.4	690.5	287.5	222.2	209.7	208.4	187.1	154.4
47.5°	5786.5	5617.0	5237.9	3515.4	626.5	320.1	207.2	192.1	200.9	175.8	136.8
50°	7063.4	6863.7	6315.1	3691.1	625.2	362.8	204.6	175.8	194.6	167.0	121.8
52.5°	8346.5	7994.9	7328.3	3785.3	671.7	394.2	227.2	159.4	187.1	158.2	110.5
55°	9575.6	8846.1	7752.6	3473.9	708.1	428.1	268.7	150.7	173.3	148.1	104.2
57.5°	10747.0	9530.4	7937.2	2748.3	829.9	441.9	293.8	154.4	153.2	135.6	99.2
60°	10907.7	9497.7	7564.3	1598.2	915.2	418.1	283.7	172.0	134.3	120.5	90.4
62.5°	10300.0	8866.2	6714.3	996.9	850.0	409.3	252.4	195.9	121.8	106.7	79.1
65°	9377.2	7875.7	5598.2	642.8	644.1	454.5	221.0	192.1	114.2	94.2	67.8
67.5°	7934.7	6591.3	4410.5	430.6	364.1	387.9	193.3	131.8	111.7	80.4	52.7
70°	5791.6	4691.7	2871.3	287.5	217.2	310.1	162.0	94.2	105.5	66.5	37.7
72.5°	4233.5	3152.5	1603.3	188.3	123.0	180.8	119.3	67.8	81.6	49.0	26.4
75°	3047.1	2169.5	915.2	120.5	81.6	99.2	77.8	46.5	52.7	38.9	23.9
77.5°	1466.4	1057.1	415.6	66.5	55.2	50.2	41.4	28.9	32.6	35.2	21.3
80°	55.2	41.4	31.4	32.6	35.2	22.6	18.8	15.1	18.8	23.9	11.3
82.5°	0.0	0.0	0.0	3.8	5.0	6.3	7.5	6.3	7.5	8.8	1.3
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°	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9
2.5°	509.7	507.2	509.7	512.2	514.7	517.3	513.5	516.0	518.5	512.2	514.7
5°	469.6	468.3	475.8	479.6	484.6	487.1	484.6	484.6	483.4	475.8	475.8
7.5°	434.4	435.7	441.9	450.7	457.0	460.8	458.3	457.0	453.2	441.9	441.9
10°	408.0	408.0	418.1	425.6	434.4	438.2	435.7	431.9	428.1	416.8	415.6
12.5°	386.7	386.7	394.2	406.8	416.8	421.8	420.6	415.6	409.3	398.0	396.7
15°	366.6	365.3	376.6	387.9	401.8	408.0	405.5	401.8	390.5	380.4	377.9
17.5°	346.5	345.3	355.3	370.4	385.4	394.2	393.0	384.2	374.1	361.6	359.1
20°	326.4	323.9	336.5	351.5	366.6	375.4	372.9	365.3	352.8	340.2	337.7
22.5°	306.3	305.1	313.9	326.4	340.2	347.8	346.5	340.2	327.7	316.4	316.4
25°	283.7	283.7	290.0	298.8	308.8	312.6	313.9	311.4	303.8	297.5	297.5
27.5°	264.9	261.1	263.7	266.2	271.2	277.5	277.5	280.0	281.2	278.7	280.0
30°	249.8	243.6	239.8	234.8	232.3	234.8	237.3	246.1	254.9	259.9	262.4
32.5°	232.3	224.7	214.7	200.9	192.1	189.6	197.1	213.4	229.8	241.1	247.3
35°	214.7	204.6	185.8	165.7	154.4	150.7	159.4	178.3	202.1	222.2	231.0
37.5°	197.1	183.3	156.9	133.1	120.5	118.0	126.8	146.9	174.5	202.1	213.4
40°	177.0	160.7	129.3	104.2	94.2	91.7	99.2	119.3	148.1	179.5	197.1
42.5°	156.9	136.8	104.2	82.9	72.8	72.8	82.9	97.9	124.3	158.2	179.5
45°	136.8	115.5	85.4	66.5	60.3	61.5	67.8	82.9	104.2	139.4	159.4
47.5°	118.0	99.2	70.3	55.2	50.2	51.5	59.0	71.6	89.1	120.5	141.9
50°	101.7	84.1	61.5	46.5	42.7	45.2	52.7	64.0	79.1	106.7	124.3
52.5°	91.7	75.3	56.5	40.2	37.7	40.2	47.7	57.8	71.6	94.2	111.7
55°	86.6	74.1	56.5	36.4	32.6	35.2	42.7	52.7	64.0	85.4	100.4
57.5°	85.4	76.6	60.3	32.6	27.6	30.1	37.7	47.7	59.0	77.8	90.4
60°	80.4	72.8	59.0	26.4	21.3	25.1	31.4	41.4	54.0	72.8	84.1
62.5°	70.3	64.0	51.5	21.3	16.3	18.8	26.4	36.4	49.0	66.5	79.1
65°	57.8	51.5	40.2	13.8	10.0	12.6	20.1	31.4	42.7	60.3	71.6
67.5°	42.7	36.4	27.6	8.8	5.0	8.8	16.3	26.4	38.9	54.0	65.3
70°	26.4	21.3	15.1	5.0	3.8	7.5	15.1	25.1	35.2	50.2	61.5
72.5°	15.1	10.0	6.3	2.5	3.8	7.5	15.1	25.1	33.9	47.7	57.8
75°	11.3	6.3	2.5	1.3	2.5	6.3	13.8	22.6	32.6	45.2	55.2
77.5°	7.5	3.8	1.3	0.0	1.3	5.0	12.6	21.3	30.1	42.7	52.7
80°	1.3	0.0	0.0	0.0	0.0	3.8	11.3	18.8	27.6	37.7	46.5
82.5°	0.0	0.0	0.0	0.0	0.0	1.3	8.8	16.3	23.9	31.4	37.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	5.0	12.6	18.8	23.9	26.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.6	15.1	17.6
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°	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9
2.5°	513.5	521.0	521.0	526.0	532.3	543.6	549.9	558.7	565.0	571.2	573.8
5°	474.6	475.8	477.1	479.6	487.1	499.7	511.0	524.8	541.1	553.7	561.2
7.5°	441.9	441.9	441.9	445.7	453.2	462.0	473.3	492.2	511.0	526.0	538.6
10°	414.3	418.1	419.3	425.6	434.4	445.7	458.3	474.6	495.9	516.0	538.6
12.5°	396.7	400.5	406.8	413.1	421.8	434.4	448.2	469.6	513.5	554.9	602.6
15°	380.4	385.4	393.0	401.8	411.8	425.6	440.7	484.6	587.6	665.4	740.7
17.5°	362.8	370.4	380.4	389.2	401.8	416.8	435.7	521.0	723.2	852.5	980.5
20°	340.2	350.3	361.6	375.4	390.5	408.0	435.7	596.4	919.0	1104.8	1274.3
22.5°	318.9	328.9	342.7	360.3	377.9	395.5	441.9	710.6	1171.4	1406.1	1620.8
25°	301.3	313.9	327.7	342.7	362.8	382.9	457.0	871.3	1475.2	1777.8	1929.7
27.5°	285.0	300.1	313.9	326.4	344.0	366.6	490.9	1086.0	1834.3	2141.9	2261.1
30°	268.7	286.3	300.1	312.6	330.2	354.0	542.4	1359.7	2233.5	2532.3	2544.9
32.5°	254.9	271.2	287.5	300.1	316.4	344.0	613.9	1679.8	2642.8	2931.6	2813.5
35°	239.8	258.6	273.7	287.5	305.1	335.2	696.8	2025.1	3055.9	3298.2	3081.0
37.5°	224.7	246.1	264.9	275.0	292.5	326.4	757.1	2385.4	3477.7	3656.0	3315.7
40°	210.9	234.8	256.1	266.2	275.0	315.1	765.8	2754.5	3905.8	4008.8	3536.7
42.5°	195.9	222.2	241.1	254.9	262.4	307.6	713.1	3065.9	4264.9	4360.3	3825.5
45°	179.5	210.9	226.0	236.0	251.1	312.6	645.3	3306.9	4675.4	4839.9	4301.3
47.5°	163.2	198.4	210.9	218.5	238.5	342.7	620.2	3467.6	5352.1	5693.6	5103.5
50°	148.1	187.1	200.9	199.6	236.0	381.7	647.8	3589.4	6369.1	6770.8	6203.4
52.5°	131.8	174.5	190.8	185.8	254.9	411.8	703.1	3686.1	7151.2	8033.8	7681.1
55°	118.0	160.7	175.8	174.5	290.0	434.4	745.8	3176.4	7475.2	9207.7	9345.8
57.5°	108.0	145.6	158.2	179.5	312.6	434.4	862.5	2254.9	7481.4	10071.5	11555.5
60°	99.2	131.8	140.6	197.1	303.8	411.8	853.7	1381.0	6895.1	10012.5	12730.6
62.5°	91.7	119.3	130.6	202.1	268.7	408.0	770.9	856.2	5880.7	9250.4	11878.1
65°	85.4	109.2	125.5	185.8	243.6	436.9	519.8	615.2	4769.6	8381.6	10900.1
67.5°	79.1	100.4	133.1	151.9	221.0	390.5	375.4	436.9	3743.9	7428.7	10002.4
70°	74.1	95.4	140.6	124.3	193.3	305.1	266.2	331.4	2866.3	6198.3	8738.2
72.5°	70.3	89.1	118.0	97.9	156.9	236.0	185.8	241.1	1873.2	4838.6	7123.6
75°	66.5	81.6	86.6	79.1	116.8	154.4	140.6	162.0	1116.1	3536.7	5404.9
77.5°	65.3	76.6	70.3	64.0	79.1	91.7	106.7	109.2	544.9	1769.0	2832.4
80°	57.8	69.1	60.3	52.7	54.0	60.3	79.1	72.8	124.3	449.5	755.8
82.5°	45.2	54.0	50.2	43.9	43.9	43.9	52.7	49.0	40.2	202.1	341.5
85°	31.4	37.7	37.7	35.2	33.9	33.9	32.6	31.4	11.3	12.6	18.8
87.5°	21.3	26.4	27.6	26.4	22.6	20.1	17.6	15.1	5.0	0.0	2.5
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°	358°	360°
0°	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9	549.9
2.5°	582.5	586.3	586.3	581.3	577.5	567.5	557.4	547.4	544.9	543.6
5°	582.5	597.6	605.1	603.9	595.1	578.8	557.4	534.8	528.6	526.0
7.5°	573.8	602.6	625.2	629.0	612.7	583.8	544.9	511.0	502.2	498.4
10°	593.8	650.3	695.5	701.8	683.0	626.5	563.7	506.0	492.2	483.4
12.5°	701.8	794.7	850.0	876.3	839.9	768.4	664.2	561.2	529.8	516.0
15°	920.3	1052.1	1157.6	1157.6	1123.7	996.9	865.0	698.0	655.4	617.7
17.5°	1200.2	1366.0	1458.9	1448.8	1397.4	1308.2	1150.0	910.2	823.6	784.7
20°	1519.1	1618.3	1639.7	1633.4	1610.8	1559.3	1450.1	1192.7	1076.0	1015.7
22.5°	1795.3	1769.0	1737.6	1712.5	1706.2	1721.3	1706.2	1507.8	1416.2	1309.5
25°	1982.4	1833.0	1738.8	1693.6	1715.0	1801.6	1895.8	1821.7	1748.9	1638.4
27.5°	2084.1	1825.5	1689.9	1643.4	1679.8	1802.9	2007.5	2133.1	2057.7	2005.0
30°	2139.3	1819.2	1658.5	1613.3	1668.5	1823.0	2085.4	2424.3	2426.9	2342.7
32.5°	2218.4	1859.4	1664.8	1623.3	1697.4	1883.2	2183.3	2720.6	2793.5	2748.3
35°	2307.6	1920.9	1693.6	1656.0	1747.6	1963.6	2292.5	3019.4	3171.4	3156.3
37.5°	2391.7	1989.9	1761.4	1725.0	1824.2	2032.6	2398.0	3313.2	3524.1	3576.9
40°	2479.6	2086.6	1969.9	2005.0	2060.3	2141.9	2492.1	3568.1	3912.1	3991.2
42.5°	2686.7	2421.8	2600.1	2666.6	2674.2	2505.9	2698.0	3894.5	4293.8	4387.9
45°	3148.8	3018.2	3529.2	3623.3	3574.4	3064.6	3194.0	4365.3	4827.3	4875.0
47.5°	3732.6	3792.8	4801.0	5126.1	4832.4	3723.8	3795.3	5355.9	5804.1	5786.5
50°	4413.0	4698.0	6244.8	7011.9	6308.8	4580.0	4488.4	6573.7	7117.3	7063.4
52.5°	5217.8	5750.1	7979.9	9069.6	8404.2	5543.0	5505.3	8187.0	8518.5	8346.5
55°	6231.0	6765.8	9976.1	11499.0	10552.4	6718.1	6847.4	10057.7	10121.7	9575.6
57.5°	7742.6	8090.3	12328.9	14284.9	12794.6	8315.1	9252.9	12547.3	11781.5	10747.0
60°	10487.1	9794.0	14602.5	17134.9	15180.1	10561.1	12425.5	14022.5	12333.9	10907.7
62.5°	11442.5	11240.4	16026.3	18340.1	16784.6	12405.4	13250.4	13186.4	11618.3	10300.0
65°	9994.9	10880.0	15771.4	17703.6	16578.7	12101.6	11890.7	12263.6	10812.2	9377.2
67.5°	9232.8	10033.8	14805.9	15947.2	15437.4	11070.9	10598.8	10497.1	9077.2	7934.7
70°	8464.5	9257.9	13406.1	13547.9	13310.7	9391.0	8770.8	8089.1	6784.6	5791.6
72.5°	7540.4	7977.4	11463.8	10790.9	10522.2	7376.0	7245.4	6091.6	5086.0	4233.5
75°	6576.2	6449.4	8937.8	7406.1	7607.0	5738.8	6119.2	4473.3	3726.3	3047.1
77.5°	4783.4	4689.2	5986.2	4498.4	4981.8	3758.9	3377.3	1785.3	1699.9	1466.4
80°	2669.2	3217.8	3232.9	2521.0	3145.0	2450.7	844.9	59.0	37.7	55.2
82.5°	1240.4	1383.5	1752.7	1168.9	1794.1	1214.1	174.5	0.0	0.0	0.0
85°	401.8	587.6	492.2	172.0	434.4	410.5	28.9	0.0	0.0	0.0
87.5°	23.9	49.0	12.6	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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