

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: P639361

Luminaire Tested: GWS-SA5B-760-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639361
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10846.2 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

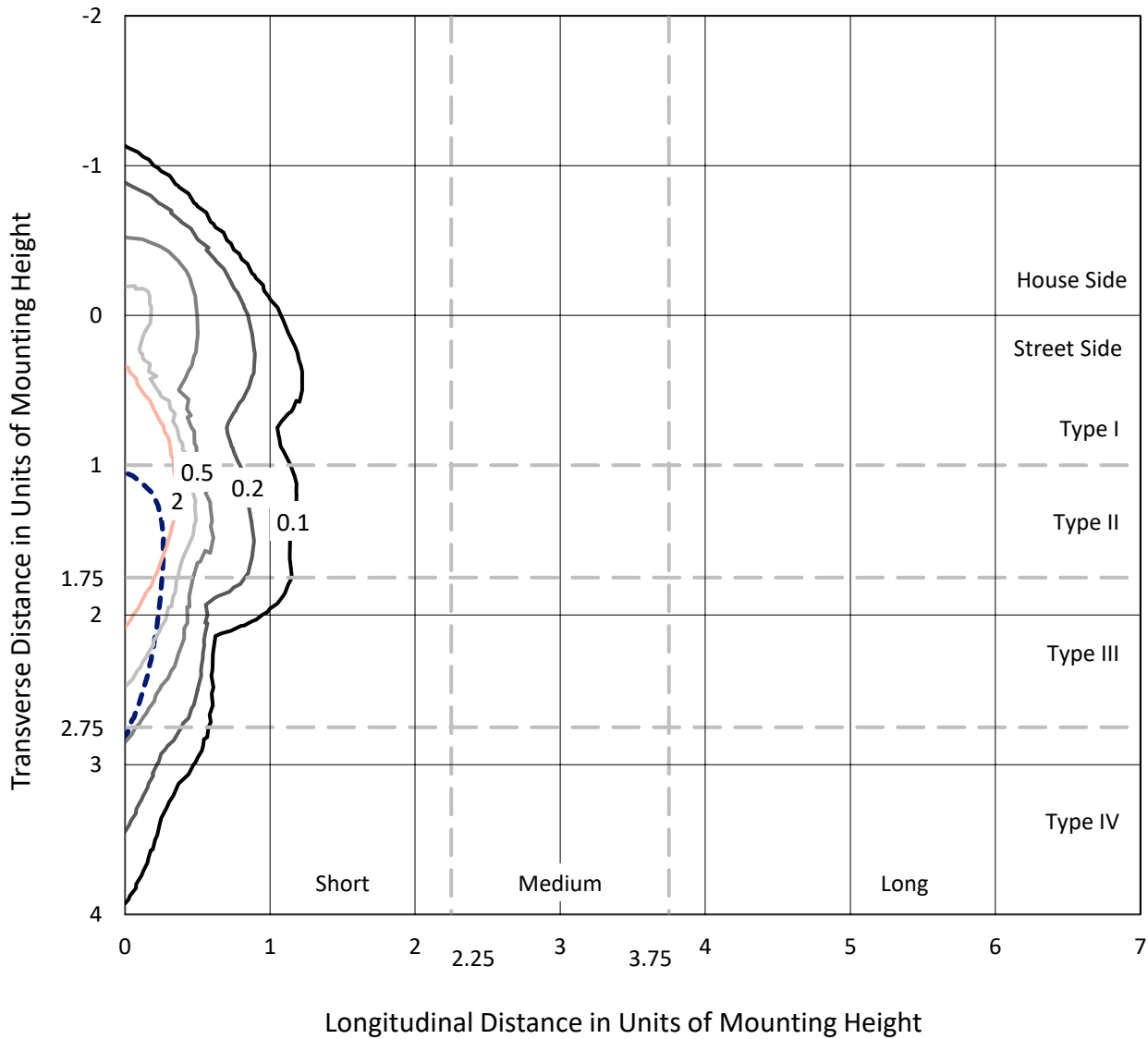
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

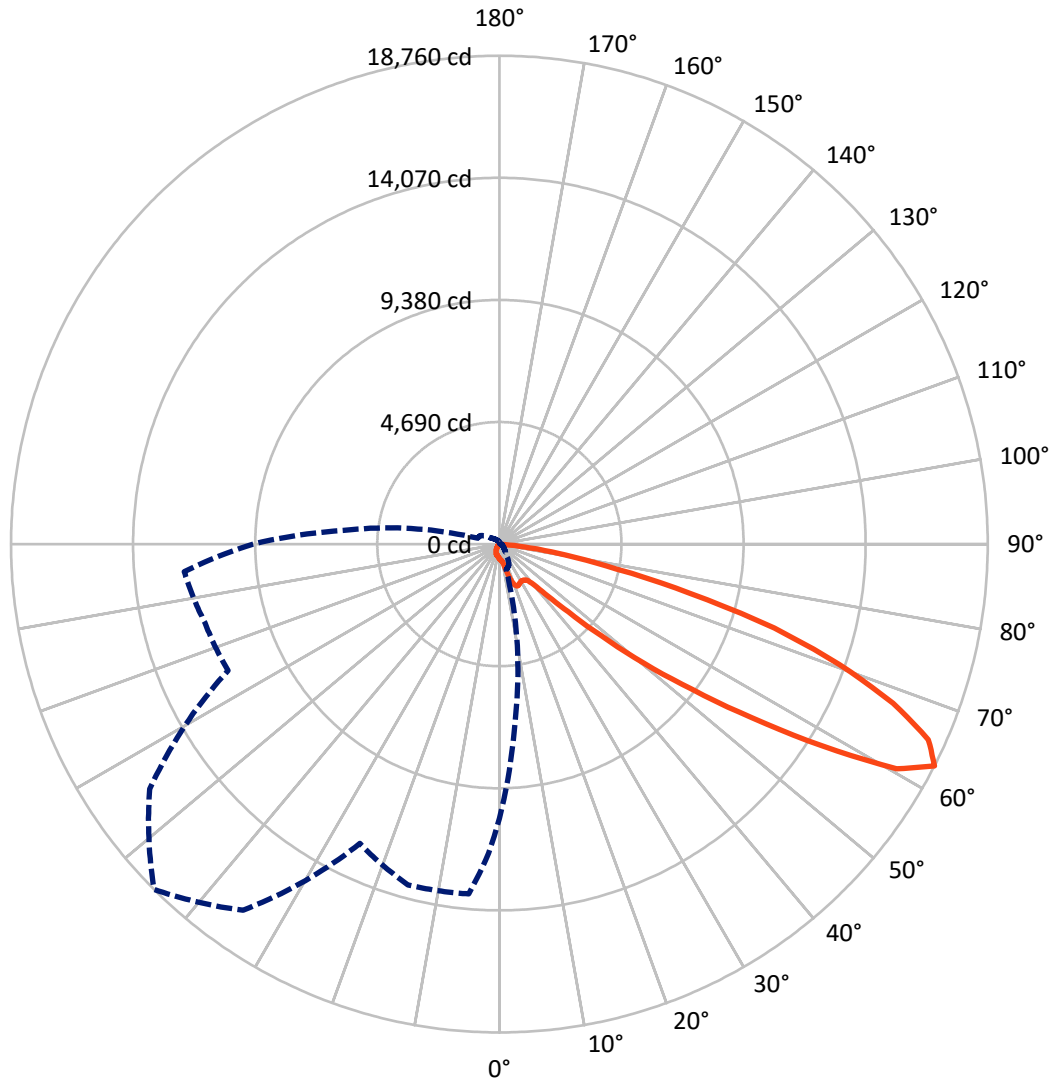
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 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	1260.2	0.0	1260.2
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	9586.0	0.0	9586.0
	% Fixture	88.4	0.0	88.4
Total	Lumens	10846.2	0.0	10846.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.6	0.4
10°-20°	166.5	1.5
20°-30°	376.1	3.5
30°-40°	648.0	6.0
40°-50°	1222.3	11.3
50°-60°	2729.0	25.2
60°-70°	3650.0	33.7
70°-80°	1830.4	16.9
80°-90°	175.4	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°	10846.2	100.0
0°-180°	10846.2	100.0

Coefficient of Utilization



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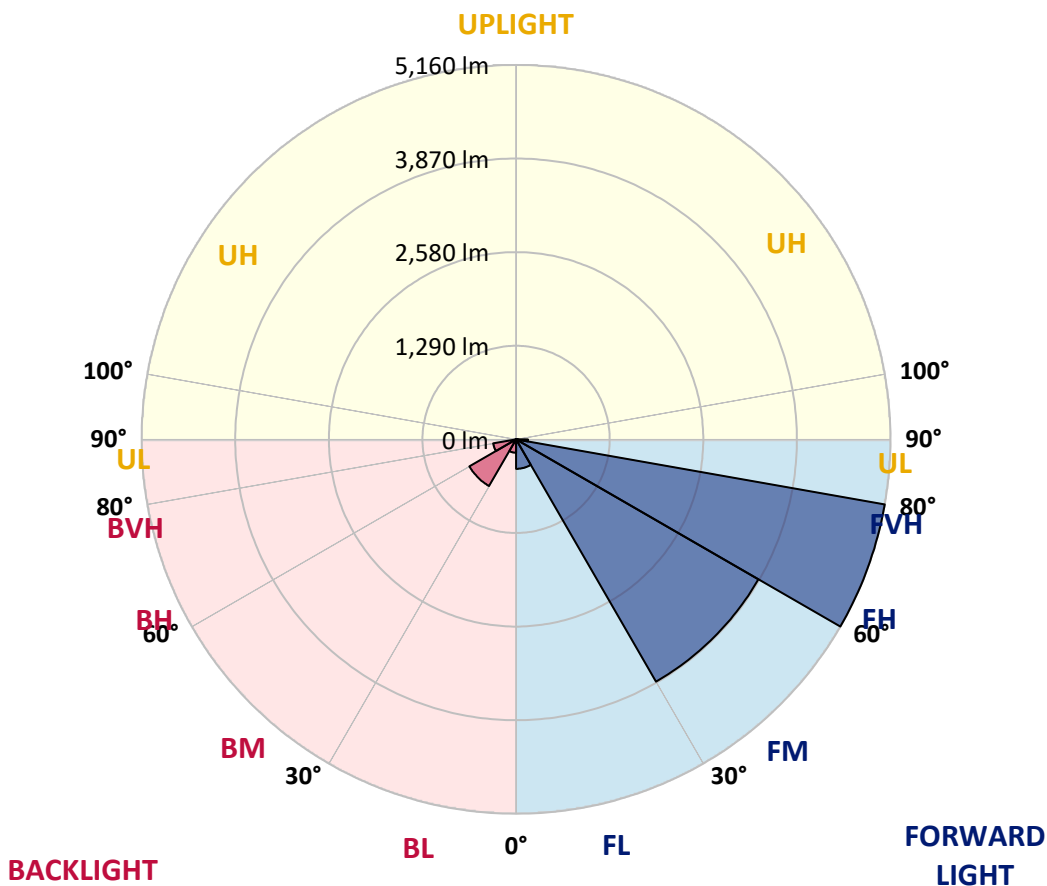
CATALOG NUMBER: GWS-SA5B-760-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	406.2	3.7			
FM (30°-60°)	3856.1	35.6			
FH (60°-80°)	5159.9	47.6			G3/7500
FVH (80°-90°)	163.8	1.5			G2/225
BL (0°-30°)	185.0	1.7	B1/500		
BM (30°-60°)	743.1	6.9	B1/1000		
BH (60°-80°)	320.5	3.0	B1/500		G1/500
BVH (80°-90°)	11.7	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°	562.5	562.5	562.5	562.5	562.5	562.5	562.5	562.5	562.5	562.5	562.5
2.5°	556.1	554.8	552.2	544.5	538.1	534.2	526.5	526.5	525.3	522.7	517.6
5°	538.1	533.0	527.8	513.7	498.3	489.3	479.0	477.7	477.7	475.2	473.9
7.5°	509.8	504.7	498.3	475.2	461.0	452.1	443.1	441.8	437.9	437.9	437.9
10°	494.4	486.7	476.5	450.8	436.6	428.9	422.5	418.7	416.1	412.2	411.0
12.5°	527.8	513.7	491.9	445.6	426.4	416.1	408.4	405.8	398.1	393.0	389.1
15°	631.8	597.2	553.5	457.2	422.5	407.1	396.8	391.7	385.3	376.3	369.9
17.5°	802.7	752.6	679.4	494.4	418.7	399.4	386.6	377.6	368.6	358.3	350.6
20°	1039.0	964.5	877.1	562.5	418.7	390.4	375.0	363.4	350.6	339.0	330.1
22.5°	1339.5	1265.0	1116.0	678.1	423.8	378.9	360.9	345.5	330.1	319.8	309.5
25°	1675.9	1570.6	1431.9	818.1	437.9	363.4	344.2	328.8	314.6	301.8	290.2
27.5°	2050.9	1936.6	1751.7	1017.1	468.7	348.0	326.2	312.1	299.2	286.4	271.0
30°	2396.4	2328.3	2139.6	1256.0	518.8	337.8	312.1	299.2	286.4	269.7	255.6
32.5°	2811.2	2690.5	2535.1	1528.3	585.6	327.5	300.5	282.5	272.3	256.8	241.4
35°	3228.6	3125.9	2921.7	1863.4	660.1	317.2	286.4	269.7	260.7	242.7	226.0
37.5°	3658.8	3635.7	3434.1	2234.6	733.3	305.7	269.7	259.4	250.4	229.9	210.6
40°	4082.6	4040.2	3854.0	2658.4	778.3	292.8	255.6	249.1	238.9	215.8	193.9
42.5°	4488.4	4456.3	4275.3	3064.2	771.8	281.2	241.4	233.7	226.0	202.9	175.9
45°	4986.7	4934.1	4705.5	3364.7	706.3	294.1	227.3	214.5	213.2	191.4	158.0
47.5°	5919.1	5745.7	5357.9	3595.9	640.8	327.5	211.9	196.5	205.5	179.8	140.0
50°	7225.2	7021.0	6459.8	3775.7	639.6	371.1	209.3	179.8	199.1	170.8	124.6
52.5°	8537.7	8178.1	7496.1	3872.0	687.1	403.3	232.4	163.1	191.4	161.8	113.0
55°	9794.9	9048.8	7930.2	3553.5	724.3	437.9	274.8	154.1	177.2	151.5	106.6
57.5°	10993.1	9748.7	8119.0	2811.2	848.9	452.1	300.5	158.0	156.7	138.7	101.5
60°	11157.5	9715.3	7737.6	1634.8	936.2	427.7	290.2	175.9	137.4	123.3	92.5
62.5°	10535.9	9069.3	6868.1	1019.7	869.4	418.7	258.1	200.3	124.6	109.2	80.9
65°	9592.0	8056.1	5726.5	657.5	658.8	464.9	226.0	196.5	116.9	96.3	69.3
67.5°	8116.4	6742.3	4511.6	440.5	372.4	396.8	197.8	134.8	114.3	82.2	53.9
70°	5924.2	4799.2	2937.1	294.1	222.2	317.2	165.7	96.3	107.9	68.1	38.5
72.5°	4330.5	3224.7	1640.0	192.6	125.9	184.9	122.0	69.3	83.5	50.1	27.0
75°	3116.9	2219.2	936.2	123.3	83.5	101.5	79.6	47.5	53.9	39.8	24.4
77.5°	1500.0	1081.3	425.1	68.1	56.5	51.4	42.4	29.5	33.4	36.0	21.8
80°	56.5	42.4	32.1	33.4	36.0	23.1	19.3	15.4	19.3	24.4	11.6
82.5°	0.0	0.0	0.0	3.9	5.1	6.4	7.7	6.4	7.7	9.0	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°	562.5	562.5	562.5	562.5	562.5	562.5	562.5	562.5	562.5	562.5	562.5
2.5°	521.4	518.8	521.4	524.0	526.5	529.1	525.3	527.8	530.4	524.0	526.5
5°	480.3	479.0	486.7	490.6	495.7	498.3	495.7	495.7	494.4	486.7	486.7
7.5°	444.3	445.6	452.1	461.0	467.5	471.3	468.7	467.5	463.6	452.1	452.1
10°	417.4	417.4	427.7	435.4	444.3	448.2	445.6	441.8	437.9	426.4	425.1
12.5°	395.5	395.5	403.3	416.1	426.4	431.5	430.2	425.1	418.7	407.1	405.8
15°	375.0	373.7	385.3	396.8	411.0	417.4	414.8	411.0	399.4	389.1	386.6
17.5°	354.5	353.2	363.4	378.9	394.3	403.3	402.0	393.0	382.7	369.9	367.3
20°	333.9	331.3	344.2	359.6	375.0	384.0	381.4	373.7	360.9	348.0	345.5
22.5°	313.4	312.1	321.1	333.9	348.0	355.7	354.5	348.0	335.2	323.6	323.6
25°	290.2	290.2	296.7	305.7	315.9	319.8	321.1	318.5	310.8	304.4	304.4
27.5°	271.0	267.1	269.7	272.3	277.4	283.8	283.8	286.4	287.7	285.1	286.4
30°	255.6	249.1	245.3	240.2	237.6	240.2	242.7	251.7	260.7	265.8	268.4
32.5°	237.6	229.9	219.6	205.5	196.5	193.9	201.6	218.3	235.0	246.6	253.0
35°	219.6	209.3	190.1	169.5	158.0	154.1	163.1	182.4	206.8	227.3	236.3
37.5°	201.6	187.5	160.5	136.1	123.3	120.7	129.7	150.3	178.5	206.8	218.3
40°	181.1	164.4	132.3	106.6	96.3	93.7	101.5	122.0	151.5	183.6	201.6
42.5°	160.5	140.0	106.6	84.8	74.5	74.5	84.8	100.2	127.1	161.8	183.6
45°	140.0	118.2	87.3	68.1	61.6	62.9	69.3	84.8	106.6	142.6	163.1
47.5°	120.7	101.5	71.9	56.5	51.4	52.7	60.4	73.2	91.2	123.3	145.1
50°	104.0	86.0	62.9	47.5	43.7	46.2	53.9	65.5	80.9	109.2	127.1
52.5°	93.7	77.1	57.8	41.1	38.5	41.1	48.8	59.1	73.2	96.3	114.3
55°	88.6	75.8	57.8	37.2	33.4	36.0	43.7	53.9	65.5	87.3	102.7
57.5°	87.3	78.3	61.6	33.4	28.3	30.8	38.5	48.8	60.4	79.6	92.5
60°	82.2	74.5	60.4	27.0	21.8	25.7	32.1	42.4	55.2	74.5	86.0
62.5°	71.9	65.5	52.7	21.8	16.7	19.3	27.0	37.2	50.1	68.1	80.9
65°	59.1	52.7	41.1	14.1	10.3	12.8	20.5	32.1	43.7	61.6	73.2
67.5°	43.7	37.2	28.3	9.0	5.1	9.0	16.7	27.0	39.8	55.2	66.8
70°	27.0	21.8	15.4	5.1	3.9	7.7	15.4	25.7	36.0	51.4	62.9
72.5°	15.4	10.3	6.4	2.6	3.9	7.7	15.4	25.7	34.7	48.8	59.1
75°	11.6	6.4	2.6	1.3	2.6	6.4	14.1	23.1	33.4	46.2	56.5
77.5°	7.7	3.9	1.3	0.0	1.3	5.1	12.8	21.8	30.8	43.7	53.9
80°	1.3	0.0	0.0	0.0	0.0	3.9	11.6	19.3	28.3	38.5	47.5
82.5°	0.0	0.0	0.0	0.0	0.0	1.3	9.0	16.7	24.4	32.1	38.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	5.1	12.8	19.3	24.4	27.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	12.8	15.4	18.0
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°	562.5	562.5	562.5	562.5	562.5	562.5	562.5	562.5	562.5	562.5	562.5
2.5°	525.3	533.0	533.0	538.1	544.5	556.1	562.5	571.5	577.9	584.3	586.9
5°	485.4	486.7	488.0	490.6	498.3	511.1	522.7	536.8	553.5	566.4	574.1
7.5°	452.1	452.1	452.1	455.9	463.6	472.6	484.2	503.4	522.7	538.1	550.9
10°	423.8	427.7	428.9	435.4	444.3	455.9	468.7	485.4	507.3	527.8	550.9
12.5°	405.8	409.7	416.1	422.5	431.5	444.3	458.5	480.3	525.3	567.6	616.4
15°	389.1	394.3	402.0	411.0	421.2	435.4	450.8	495.7	601.0	680.7	757.7
17.5°	371.1	378.9	389.1	398.1	411.0	426.4	445.6	533.0	739.7	872.0	1003.0
20°	348.0	358.3	369.9	384.0	399.4	417.4	445.6	610.0	940.1	1130.1	1303.5
22.5°	326.2	336.5	350.6	368.6	386.6	404.5	452.1	726.9	1198.2	1438.4	1658.0
25°	308.2	321.1	335.2	350.6	371.1	391.7	467.5	891.3	1509.0	1818.5	1973.9
27.5°	291.5	306.9	321.1	333.9	351.9	375.0	502.1	1110.9	1876.3	2190.9	2312.9
30°	274.8	292.8	306.9	319.8	337.8	362.2	554.8	1390.8	2284.7	2590.3	2603.2
32.5°	260.7	277.4	294.1	306.9	323.6	351.9	628.0	1718.3	2703.3	2998.7	2878.0
35°	245.3	264.6	280.0	294.1	312.1	342.9	712.8	2071.5	3125.9	3373.7	3151.5
37.5°	229.9	251.7	271.0	281.2	299.2	333.9	774.4	2440.1	3557.4	3739.7	3391.7
40°	215.8	240.2	262.0	272.3	281.2	322.3	783.4	2817.6	3995.3	4100.6	3617.7
42.5°	200.3	227.3	246.6	260.7	268.4	314.6	729.5	3136.1	4362.6	4460.2	3913.1
45°	183.6	215.8	231.2	241.4	256.8	319.8	660.1	3382.7	4782.5	4950.8	4399.8
47.5°	167.0	202.9	215.8	223.5	244.0	350.6	634.4	3547.1	5474.7	5824.1	5220.5
50°	151.5	191.4	205.5	204.2	241.4	390.4	662.7	3671.7	6515.0	6925.9	6345.5
52.5°	134.8	178.5	195.2	190.1	260.7	421.2	719.2	3770.5	7315.1	8217.9	7857.0
55°	120.7	164.4	179.8	178.5	296.7	444.3	762.8	3249.1	7646.4	9418.7	9559.9
57.5°	110.4	149.0	161.8	183.6	319.8	444.3	882.3	2306.5	7652.8	10302.2	11820.2
60°	101.5	134.8	143.8	201.6	310.8	421.2	873.3	1412.7	7053.1	10241.9	13022.2
62.5°	93.7	122.0	133.6	206.8	274.8	417.4	788.5	875.9	6015.4	9462.3	12150.2
65°	87.3	111.7	128.4	190.1	249.1	446.9	531.7	629.3	4878.8	8573.6	11149.8
67.5°	80.9	102.7	136.1	155.4	226.0	399.4	384.0	446.9	3829.6	7598.9	10231.6
70°	75.8	97.6	143.8	127.1	197.8	312.1	272.3	339.0	2931.9	6340.3	8938.3
72.5°	71.9	91.2	120.7	100.2	160.5	241.4	190.1	246.6	1916.1	4949.5	7286.8
75°	68.1	83.5	88.6	80.9	119.4	158.0	143.8	165.7	1141.7	3617.7	5528.7
77.5°	66.8	78.3	71.9	65.5	80.9	93.7	109.2	111.7	557.4	1809.5	2897.3
80°	59.1	70.6	61.6	53.9	55.2	61.6	80.9	74.5	127.1	459.8	773.1
82.5°	46.2	55.2	51.4	44.9	44.9	44.9	53.9	50.1	41.1	206.8	349.3
85°	32.1	38.5	38.5	36.0	34.7	34.7	33.4	32.1	11.6	12.8	19.3
87.5°	21.8	27.0	28.3	27.0	23.1	20.5	18.0	15.4	5.1	0.0	2.6
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):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	562.5	562.5	562.5	562.5	562.5	562.5	562.5	562.5	562.5	562.5
2.5°	595.9	599.7	599.7	594.6	590.8	580.5	570.2	559.9	557.4	556.1
5°	595.9	611.3	619.0	617.7	608.7	592.0	570.2	547.1	540.7	538.1
7.5°	586.9	616.4	639.6	643.4	626.7	597.2	557.4	522.7	513.7	509.8
10°	607.4	665.2	711.5	717.9	698.6	640.8	576.6	517.6	503.4	494.4
12.5°	717.9	812.9	869.4	896.4	859.2	786.0	679.4	574.1	542.0	527.8
15°	941.4	1076.2	1184.1	1184.1	1149.4	1019.7	884.8	714.0	670.4	631.8
17.5°	1227.7	1397.3	1492.3	1482.0	1429.4	1338.2	1176.4	931.1	842.5	802.7
20°	1553.9	1655.4	1677.2	1670.8	1647.7	1595.0	1483.3	1220.0	1100.6	1039.0
22.5°	1836.5	1809.5	1777.4	1751.7	1745.3	1760.7	1745.3	1542.4	1448.6	1339.5
25°	2027.8	1875.0	1778.7	1732.4	1754.3	1842.9	1939.2	1863.4	1789.0	1675.9
27.5°	2131.8	1867.3	1728.6	1681.1	1718.3	1844.2	2053.5	2181.9	2104.9	2050.9
30°	2188.4	1860.9	1696.5	1650.3	1706.8	1864.7	2133.1	2479.9	2482.4	2396.4
32.5°	2269.3	1902.0	1702.9	1660.5	1736.3	1926.4	2233.3	2783.0	2857.4	2811.2
35°	2360.4	1964.9	1732.4	1693.9	1787.7	2008.6	2345.0	3088.6	3244.0	3228.6
37.5°	2446.5	2035.5	1801.8	1764.6	1866.0	2079.2	2452.9	3389.1	3604.9	3658.8
40°	2536.4	2134.4	2015.0	2050.9	2107.4	2190.9	2549.2	3649.8	4001.7	4082.6
42.5°	2748.3	2477.3	2659.7	2727.7	2735.4	2563.4	2759.8	3983.7	4392.1	4488.4
45°	3220.9	3087.3	3610.0	3706.3	3656.2	3134.8	3267.1	4465.3	4937.9	4986.7
47.5°	3818.1	3879.7	4911.0	5243.6	4943.1	3809.1	3882.3	5478.6	5937.1	5919.1
50°	4514.1	4805.6	6387.8	7172.5	6453.3	4684.9	4591.2	6724.3	7280.4	7225.2
52.5°	5337.3	5881.8	8162.7	9277.4	8596.7	5669.9	5631.4	8374.6	8713.6	8537.7
55°	6373.7	6920.8	10204.6	11762.4	10794.1	6872.0	7004.3	10288.1	10353.6	9794.9
57.5°	7919.9	8275.7	12611.3	14612.1	13087.7	8505.6	9464.9	12834.7	12051.4	10993.1
60°	10727.3	10018.4	14937.1	17527.4	15527.8	10803.1	12710.2	14343.7	12616.4	11157.5
62.5°	11704.6	11497.8	16393.4	18760.3	17169.1	12689.6	13553.9	13488.4	11884.4	10535.9
65°	10223.9	11129.3	16132.7	18109.1	16958.5	12378.8	12163.1	12544.5	11059.9	9592.0
67.5°	9444.3	10263.7	15145.1	16312.5	15791.1	11324.5	10841.6	10737.6	9285.1	8116.4
70°	8658.4	9470.0	13713.2	13858.3	13615.6	9606.2	8971.7	8274.4	6940.1	5924.2
72.5°	7713.2	8160.1	11726.4	11038.1	10763.3	7544.9	7411.4	6231.2	5202.5	4330.5
75°	6726.9	6597.2	9142.5	7575.8	7781.2	5870.3	6259.4	4575.8	3811.6	3116.9
77.5°	4893.0	4796.7	6123.3	4601.5	5095.9	3845.0	3454.6	1826.2	1738.9	1500.0
80°	2730.3	3291.5	3306.9	2578.8	3217.0	2506.8	864.3	60.4	38.5	56.5
82.5°	1268.8	1415.2	1792.8	1195.6	1835.2	1241.9	178.5	0.0	0.0	0.0
85°	411.0	601.0	503.4	175.9	444.3	419.9	29.5	0.0	0.0	0.0
87.5°	24.4	50.1	12.8	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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