

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: P639251

Luminaire Tested: GWS-SA5B-740-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639251
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10750.6 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

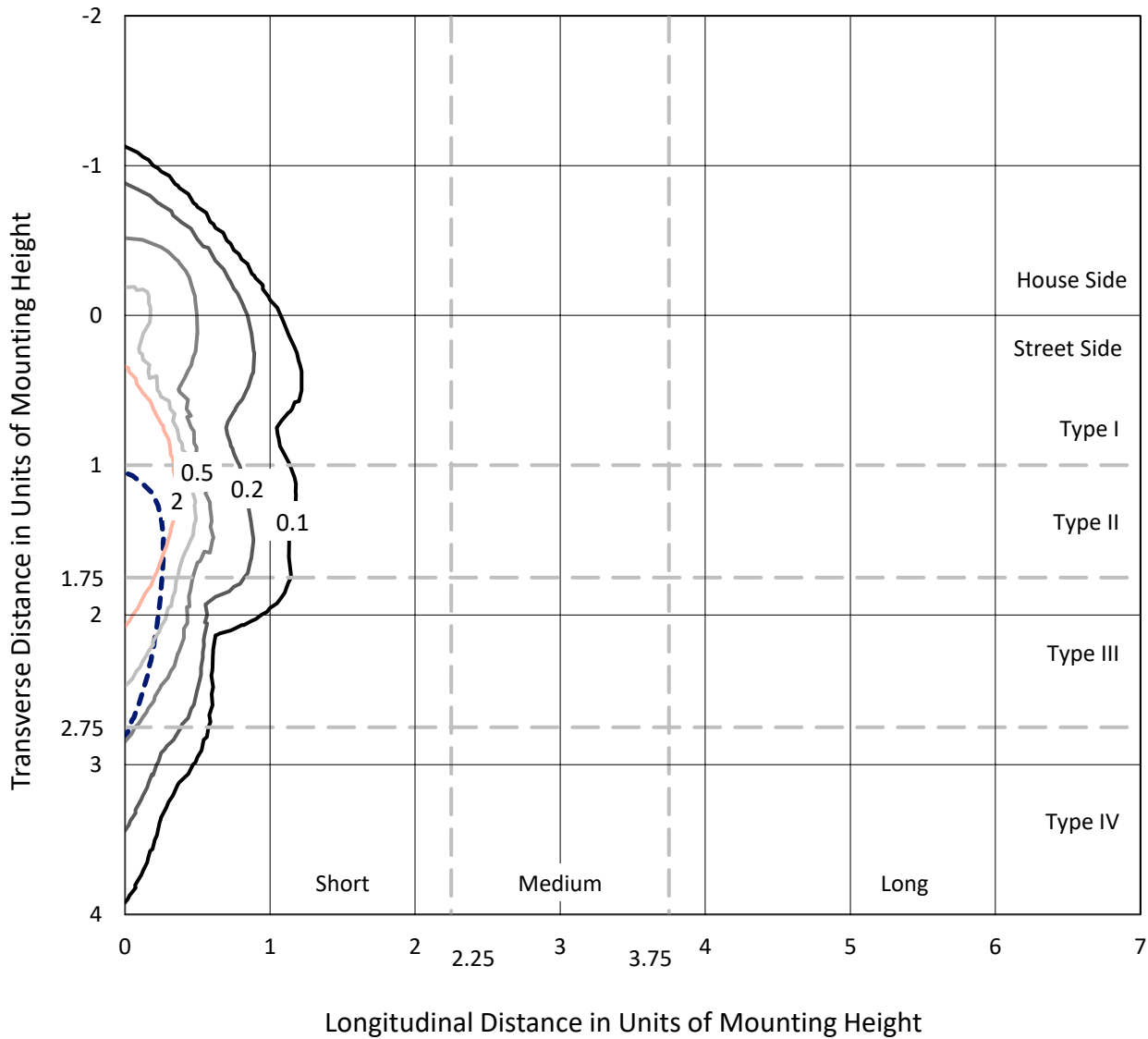
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

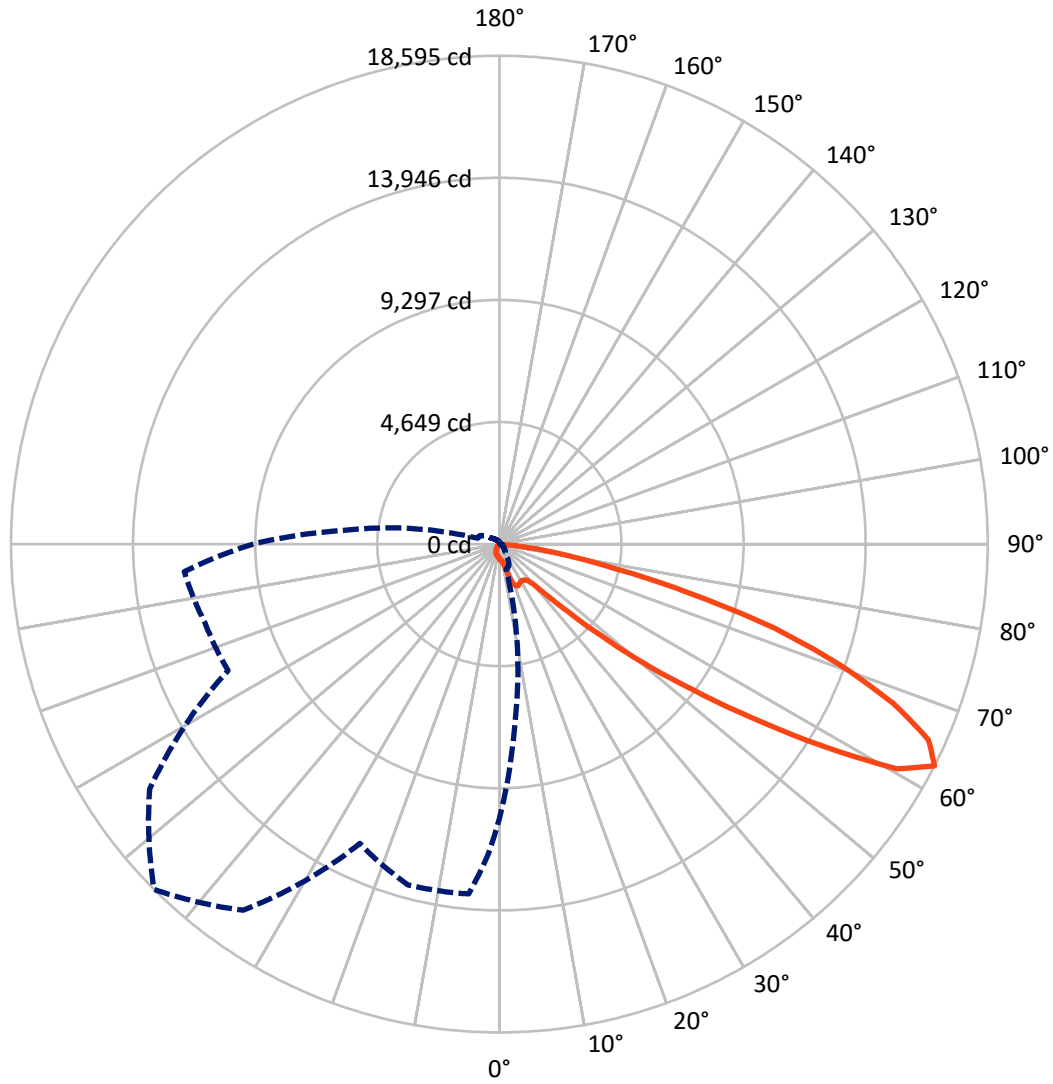
× Max cd
 - - - 1/2 Max cd



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	1249.1	0.0	1249.1
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	9501.5	0.0	9501.5
	% Fixture	88.4	0.0	88.4
Total	Lumens	10750.6	0.0	10750.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.1	0.4
10°-20°	165.0	1.5
20°-30°	372.8	3.5
30°-40°	642.2	6.0
40°-50°	1211.5	11.3
50°-60°	2704.9	25.2
60°-70°	3617.8	33.7
70°-80°	1814.2	16.9
80°-90°	173.9	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°	10750.6	100.0
0°-180°	10750.6	100.0

Coefficient of Utilization



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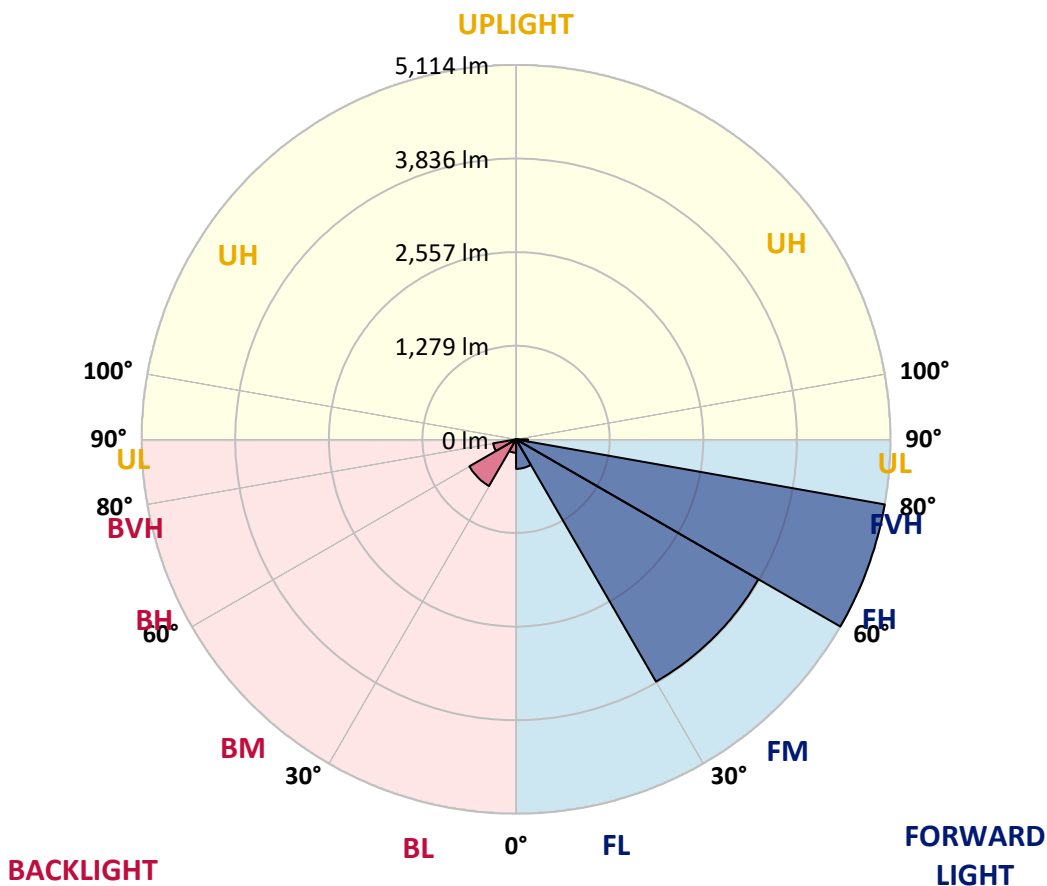
CATALOG NUMBER: GWS-SA5B-740-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	402.6	3.7			
FM (30°-60°)	3822.2	35.6			
FH (60°-80°)	5114.4	47.6			G3/7500
FVH (80°-90°)	162.3	1.5			G2/225
BL (0°-30°)	183.3	1.7	B1/500		
BM (30°-60°)	736.5	6.9	B1/1000		
BH (60°-80°)	317.6	3.0	B1/500		G1/500
BVH (80°-90°)	11.6	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°	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5
2.5°	551.2	549.9	547.4	539.7	533.4	529.5	521.9	521.9	520.6	518.1	513.0
5°	533.4	528.3	523.2	509.2	493.9	485.0	474.8	473.5	473.5	471.0	469.7
7.5°	505.4	500.3	493.9	471.0	457.0	448.1	439.2	437.9	434.1	434.1	434.1
10°	490.1	482.4	472.3	446.8	432.8	425.2	418.8	415.0	412.4	408.6	407.3
12.5°	523.2	509.2	487.5	441.7	422.6	412.4	404.8	402.2	394.6	389.5	385.7
15°	626.3	591.9	548.6	453.2	418.8	403.5	393.3	388.2	381.9	373.0	366.6
17.5°	795.6	745.9	673.4	490.1	415.0	395.9	383.2	374.2	365.3	355.1	347.5
20°	1029.8	956.0	869.4	557.5	415.0	387.0	371.7	360.2	347.5	336.1	327.1
22.5°	1327.7	1253.8	1106.2	672.1	420.1	375.5	357.7	342.4	327.1	317.0	306.8
25°	1661.2	1556.8	1419.3	810.9	434.1	360.2	341.1	325.9	311.9	299.1	287.7
27.5°	2032.9	1919.6	1736.3	1008.2	464.6	345.0	323.3	309.3	296.6	283.9	268.6
30°	2375.3	2307.8	2120.7	1244.9	514.3	334.8	309.3	296.6	283.9	267.3	253.3
32.5°	2786.4	2666.8	2512.8	1514.8	580.5	324.6	297.9	280.0	269.9	254.6	239.3
35°	3200.1	3098.3	2895.9	1847.0	654.3	314.4	283.9	267.3	258.4	240.6	224.0
37.5°	3626.6	3603.7	3403.8	2214.9	726.8	303.0	267.3	257.1	248.2	227.9	208.8
40°	4046.6	4004.6	3820.1	2635.0	771.4	290.2	253.3	246.9	236.8	213.9	192.2
42.5°	4448.9	4417.1	4237.6	3037.2	765.0	278.8	239.3	231.7	224.0	201.1	174.4
45°	4942.8	4890.6	4664.0	3335.1	700.1	291.5	225.3	212.6	211.3	189.7	156.6
47.5°	5866.9	5695.1	5310.6	3564.2	635.2	324.6	210.0	194.8	203.7	178.2	138.7
50°	7161.5	6959.1	6402.8	3742.4	633.9	367.9	207.5	178.2	197.3	169.3	123.5
52.5°	8462.4	8106.0	7430.1	3837.9	681.0	399.7	230.4	161.7	189.7	160.4	112.0
55°	9708.6	8969.0	7860.3	3522.2	717.9	434.1	272.4	152.8	175.7	150.2	105.7
57.5°	10896.2	9662.8	8047.4	2786.4	841.4	448.1	297.9	156.6	155.3	137.5	100.6
60°	11059.2	9629.7	7669.4	1620.4	928.0	423.9	287.7	174.4	136.2	122.2	91.7
62.5°	10443.1	8989.4	6807.6	1010.7	861.8	415.0	255.9	198.6	123.5	108.2	80.2
65°	9507.5	7985.1	5676.0	651.7	653.0	460.8	224.0	194.8	115.8	95.5	68.7
67.5°	8044.9	6682.9	4471.8	436.6	369.1	393.3	196.0	133.7	113.3	81.5	53.5
70°	5872.0	4756.9	2911.2	291.5	220.2	314.4	164.2	95.5	106.9	67.5	38.2
72.5°	4292.3	3196.3	1625.5	190.9	124.7	183.3	120.9	68.7	82.7	49.6	26.7
75°	3089.4	2199.6	928.0	122.2	82.7	100.6	78.9	47.1	53.5	39.5	24.2
77.5°	1486.8	1071.8	421.3	67.5	56.0	50.9	42.0	29.3	33.1	35.6	21.6
80°	56.0	42.0	31.8	33.1	35.6	22.9	19.1	15.3	19.1	24.2	11.5
82.5°	0.0	0.0	0.0	3.8	5.1	6.4	7.6	6.4	7.6	8.9	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°	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5
2.5°	516.8	514.3	516.8	519.4	521.9	524.4	520.6	523.2	525.7	519.4	521.9
5°	476.1	474.8	482.4	486.3	491.3	493.9	491.3	491.3	490.1	482.4	482.4
7.5°	440.4	441.7	448.1	457.0	463.3	467.2	464.6	463.3	459.5	448.1	448.1
10°	413.7	413.7	423.9	431.5	440.4	444.3	441.7	437.9	434.1	422.6	421.3
12.5°	392.1	392.1	399.7	412.4	422.6	427.7	426.4	421.3	415.0	403.5	402.2
15°	371.7	370.4	381.9	393.3	407.3	413.7	411.2	407.3	395.9	385.7	383.2
17.5°	351.3	350.1	360.2	375.5	390.8	399.7	398.4	389.5	379.3	366.6	364.1
20°	331.0	328.4	341.1	356.4	371.7	380.6	378.1	370.4	357.7	345.0	342.4
22.5°	310.6	309.3	318.2	331.0	345.0	352.6	351.3	345.0	332.2	320.8	320.8
25°	287.7	287.7	294.0	303.0	313.1	317.0	318.2	315.7	308.0	301.7	301.7
27.5°	268.6	264.8	267.3	269.9	275.0	281.3	281.3	283.9	285.1	282.6	283.9
30°	253.3	246.9	243.1	238.0	235.5	238.0	240.6	249.5	258.4	263.5	266.0
32.5°	235.5	227.9	217.7	203.7	194.8	192.2	199.8	216.4	232.9	244.4	250.8
35°	217.7	207.5	188.4	168.0	156.6	152.8	161.7	180.8	204.9	225.3	234.2
37.5°	199.8	185.8	159.1	134.9	122.2	119.7	128.6	148.9	176.9	204.9	216.4
40°	179.5	162.9	131.1	105.7	95.5	92.9	100.6	120.9	150.2	182.0	199.8
42.5°	159.1	138.7	105.7	84.0	73.8	73.8	84.0	99.3	126.0	160.4	182.0
45°	138.7	117.1	86.6	67.5	61.1	62.4	68.7	84.0	105.7	141.3	161.7
47.5°	119.7	100.6	71.3	56.0	50.9	52.2	59.8	72.6	90.4	122.2	143.8
50°	103.1	85.3	62.4	47.1	43.3	45.8	53.5	64.9	80.2	108.2	126.0
52.5°	92.9	76.4	57.3	40.7	38.2	40.7	48.4	58.6	72.6	95.5	113.3
55°	87.8	75.1	57.3	36.9	33.1	35.6	43.3	53.5	64.9	86.6	101.8
57.5°	86.6	77.6	61.1	33.1	28.0	30.6	38.2	48.4	59.8	78.9	91.7
60°	81.5	73.8	59.8	26.7	21.6	25.5	31.8	42.0	54.7	73.8	85.3
62.5°	71.3	64.9	52.2	21.6	16.5	19.1	26.7	36.9	49.6	67.5	80.2
65°	58.6	52.2	40.7	14.0	10.2	12.7	20.4	31.8	43.3	61.1	72.6
67.5°	43.3	36.9	28.0	8.9	5.1	8.9	16.5	26.7	39.5	54.7	66.2
70°	26.7	21.6	15.3	5.1	3.8	7.6	15.3	25.5	35.6	50.9	62.4
72.5°	15.3	10.2	6.4	2.5	3.8	7.6	15.3	25.5	34.4	48.4	58.6
75°	11.5	6.4	2.5	1.3	2.5	6.4	14.0	22.9	33.1	45.8	56.0
77.5°	7.6	3.8	1.3	0.0	1.3	5.1	12.7	21.6	30.6	43.3	53.5
80°	1.3	0.0	0.0	0.0	0.0	3.8	11.5	19.1	28.0	38.2	47.1
82.5°	0.0	0.0	0.0	0.0	0.0	1.3	8.9	16.5	24.2	31.8	38.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	5.1	12.7	19.1	24.2	26.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	12.7	15.3	17.8
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5
2.5°	520.6	528.3	528.3	533.4	539.7	551.2	557.5	566.5	572.8	579.2	581.7
5°	481.2	482.4	483.7	486.3	493.9	506.6	518.1	532.1	548.6	561.4	569.0
7.5°	448.1	448.1	448.1	451.9	459.5	468.4	479.9	499.0	518.1	533.4	546.1
10°	420.1	423.9	425.2	431.5	440.4	451.9	464.6	481.2	502.8	523.2	546.1
12.5°	402.2	406.1	412.4	418.8	427.7	440.4	454.4	476.1	520.6	562.6	611.0
15°	385.7	390.8	398.4	407.3	417.5	431.5	446.8	491.3	595.7	674.7	751.0
17.5°	367.9	375.5	385.7	394.6	407.3	422.6	441.7	528.3	733.2	864.3	994.2
20°	345.0	355.1	366.6	380.6	395.9	413.7	441.7	604.6	931.8	1120.2	1292.0
22.5°	323.3	333.5	347.5	365.3	383.2	401.0	448.1	720.5	1187.6	1425.7	1643.3
25°	305.5	318.2	332.2	347.5	367.9	388.2	463.3	883.4	1495.7	1802.5	1956.5
27.5°	289.0	304.2	318.2	331.0	348.8	371.7	497.7	1101.1	1859.7	2171.6	2292.5
30°	272.4	290.2	304.2	317.0	334.8	359.0	549.9	1378.6	2264.5	2567.5	2580.2
32.5°	258.4	275.0	291.5	304.2	320.8	348.8	622.5	1703.2	2679.5	2972.3	2852.6
35°	243.1	262.2	277.5	291.5	309.3	339.9	706.5	2053.2	3098.3	3344.0	3123.8
37.5°	227.9	249.5	268.6	278.8	296.6	331.0	767.6	2418.6	3526.0	3706.8	3361.8
40°	213.9	238.0	259.7	269.9	278.8	319.5	776.5	2792.8	3960.1	4064.5	3585.8
42.5°	198.6	225.3	244.4	258.4	266.0	311.9	723.0	3108.5	4324.1	4420.9	3878.6
45°	182.0	213.9	229.1	239.3	254.6	317.0	654.3	3352.9	4740.4	4907.1	4361.0
47.5°	165.5	201.1	213.9	221.5	241.9	347.5	628.8	3515.8	5426.5	5772.7	5174.4
50°	150.2	189.7	203.7	202.4	239.3	387.0	656.8	3639.3	6457.6	6864.9	6289.5
52.5°	133.7	176.9	193.5	188.4	258.4	417.5	712.8	3737.3	7250.6	8145.5	7787.8
55°	119.7	162.9	178.2	176.9	294.0	440.4	756.1	3220.5	7579.0	9335.6	9475.7
57.5°	109.5	147.7	160.4	182.0	317.0	440.4	874.5	2286.2	7585.4	10211.4	11716.0
60°	100.6	133.7	142.6	199.8	308.0	417.5	865.6	1400.2	6990.9	10151.6	12907.5
62.5°	92.9	120.9	132.4	204.9	272.4	413.7	781.6	868.1	5962.4	9378.9	12043.2
65°	86.6	110.7	127.3	188.4	246.9	443.0	527.0	623.7	4835.8	8498.1	11051.5
67.5°	80.2	101.8	134.9	154.0	224.0	395.9	380.6	443.0	3795.9	7531.9	10141.4
70°	75.1	96.7	142.6	126.0	196.0	309.3	269.9	336.1	2906.1	6284.4	8859.6
72.5°	71.3	90.4	119.7	99.3	159.1	239.3	188.4	244.4	1899.2	4905.9	7222.6
75°	67.5	82.7	87.8	80.2	118.4	156.6	142.6	164.2	1131.6	3585.8	5479.9
77.5°	66.2	77.6	71.3	64.9	80.2	92.9	108.2	110.7	552.4	1793.6	2871.7
80°	58.6	70.0	61.1	53.5	54.7	61.1	80.2	73.8	126.0	455.7	766.3
82.5°	45.8	54.7	50.9	44.6	44.6	44.6	53.5	49.6	40.7	204.9	346.2
85°	31.8	38.2	38.2	35.6	34.4	34.4	33.1	31.8	11.5	12.7	19.1
87.5°	21.6	26.7	28.0	26.7	22.9	20.4	17.8	15.3	5.1	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°	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5
2.5°	590.6	594.5	594.5	589.4	585.5	575.4	565.2	555.0	552.4	551.2
5°	590.6	605.9	613.6	612.3	603.4	586.8	565.2	542.3	535.9	533.4
7.5°	581.7	611.0	633.9	637.7	621.2	591.9	552.4	518.1	509.2	505.4
10°	602.1	659.4	705.2	711.6	692.5	635.2	571.5	513.0	499.0	490.1
12.5°	711.6	805.8	861.8	888.5	851.6	779.0	673.4	569.0	537.2	523.2
15°	933.1	1066.7	1173.6	1173.6	1139.3	1010.7	877.0	707.7	664.5	626.3
17.5°	1216.9	1384.9	1479.1	1469.0	1416.8	1326.4	1166.0	922.9	835.0	795.6
20°	1540.2	1640.8	1662.4	1656.1	1633.2	1581.0	1470.2	1209.3	1090.9	1029.8
22.5°	1820.3	1793.6	1761.7	1736.3	1729.9	1745.2	1729.9	1528.8	1435.9	1327.7
25°	2010.0	1858.5	1763.0	1717.2	1738.8	1826.6	1922.1	1847.0	1773.2	1661.2
27.5°	2113.1	1850.8	1713.4	1666.3	1703.2	1827.9	2035.4	2162.7	2086.3	2032.9
30°	2169.1	1844.5	1681.5	1635.7	1691.7	1848.3	2114.3	2458.0	2460.6	2375.3
32.5°	2249.3	1885.2	1687.9	1645.9	1721.0	1909.4	2213.6	2758.4	2832.3	2786.4
35°	2339.6	1947.6	1717.2	1679.0	1771.9	1990.9	2324.4	3061.4	3215.4	3200.1
37.5°	2424.9	2017.6	1785.9	1749.0	1849.6	2060.9	2431.3	3359.3	3573.1	3626.6
40°	2514.0	2115.6	1997.2	2032.9	2088.9	2171.6	2526.8	3617.7	3966.4	4046.6
42.5°	2724.1	2455.5	2636.2	2703.7	2711.3	2540.8	2735.5	3948.6	4353.4	4448.9
45°	3192.5	3060.1	3578.2	3673.7	3624.0	3107.2	3238.3	4426.0	4894.4	4942.8
47.5°	3784.4	3845.5	4867.7	5197.4	4899.5	3775.5	3848.1	5430.3	5884.7	5866.9
50°	4474.3	4763.3	6331.5	7109.3	6396.5	4643.6	4550.7	6665.0	7216.2	7161.5
52.5°	5290.3	5830.0	8090.7	9195.6	8521.0	5620.0	5581.8	8300.8	8636.8	8462.4
55°	6317.5	6859.8	10114.7	11658.7	10698.9	6811.4	6942.5	10197.4	10262.3	9708.6
57.5°	7850.1	8202.7	12500.1	14483.4	12972.4	8430.6	9381.5	12721.6	11945.1	10896.2
60°	10632.8	9930.1	14805.4	17372.9	15390.9	10707.9	12598.1	14217.3	12505.2	11059.2
62.5°	11601.4	11396.5	16248.9	18594.9	17017.7	12577.8	13434.5	13369.5	11779.7	10443.1
65°	10133.8	11031.2	15990.5	17949.5	16809.0	12269.7	12055.9	12433.9	10962.4	9507.5
67.5°	9361.1	10173.2	15011.6	16168.7	15651.9	11224.7	10746.0	10642.9	9203.3	8044.9
70°	8582.1	9386.6	13592.3	13736.1	13495.6	9521.5	8892.7	8201.5	6878.9	5872.0
72.5°	7645.2	8088.2	11623.1	10940.8	10668.4	7478.4	7346.1	6176.2	5156.6	4292.3
75°	6667.6	6539.0	9062.0	7509.0	7712.7	5818.5	6204.2	4535.4	3778.0	3089.4
77.5°	4849.8	4754.4	6069.3	4560.9	5051.0	3811.1	3424.2	1810.1	1723.5	1486.8
80°	2706.2	3262.5	3277.8	2556.0	3188.7	2484.8	856.7	59.8	38.2	56.0
82.5°	1257.7	1402.8	1777.0	1185.1	1819.0	1230.9	176.9	0.0	0.0	0.0
85°	407.3	595.7	499.0	174.4	440.4	416.2	29.3	0.0	0.0	0.0
87.5°	24.2	49.6	12.7	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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