

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: P633806

Luminaire Tested: GWS-SA2F-740-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633806
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-SA2F-740-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9822.3 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

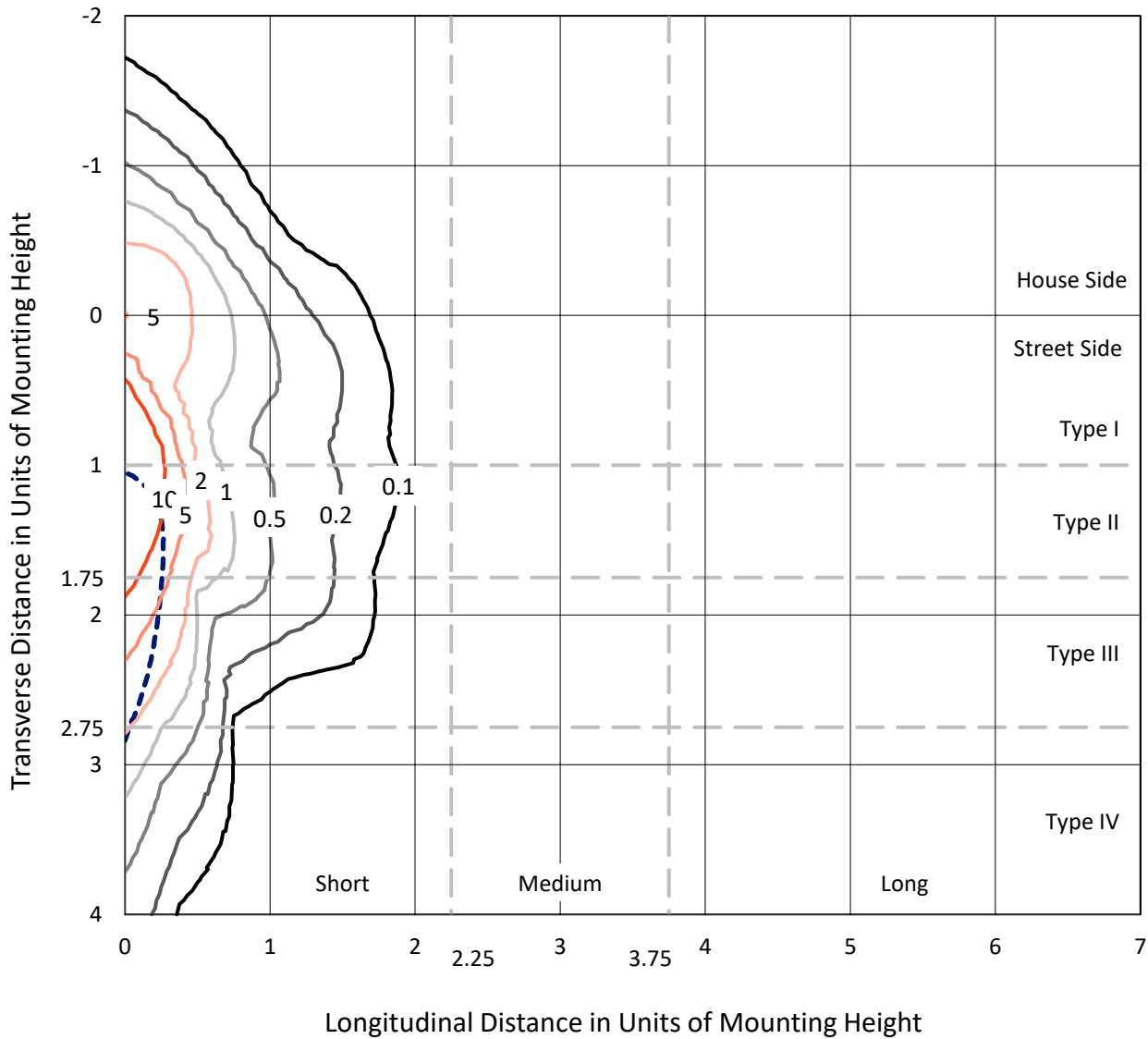
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

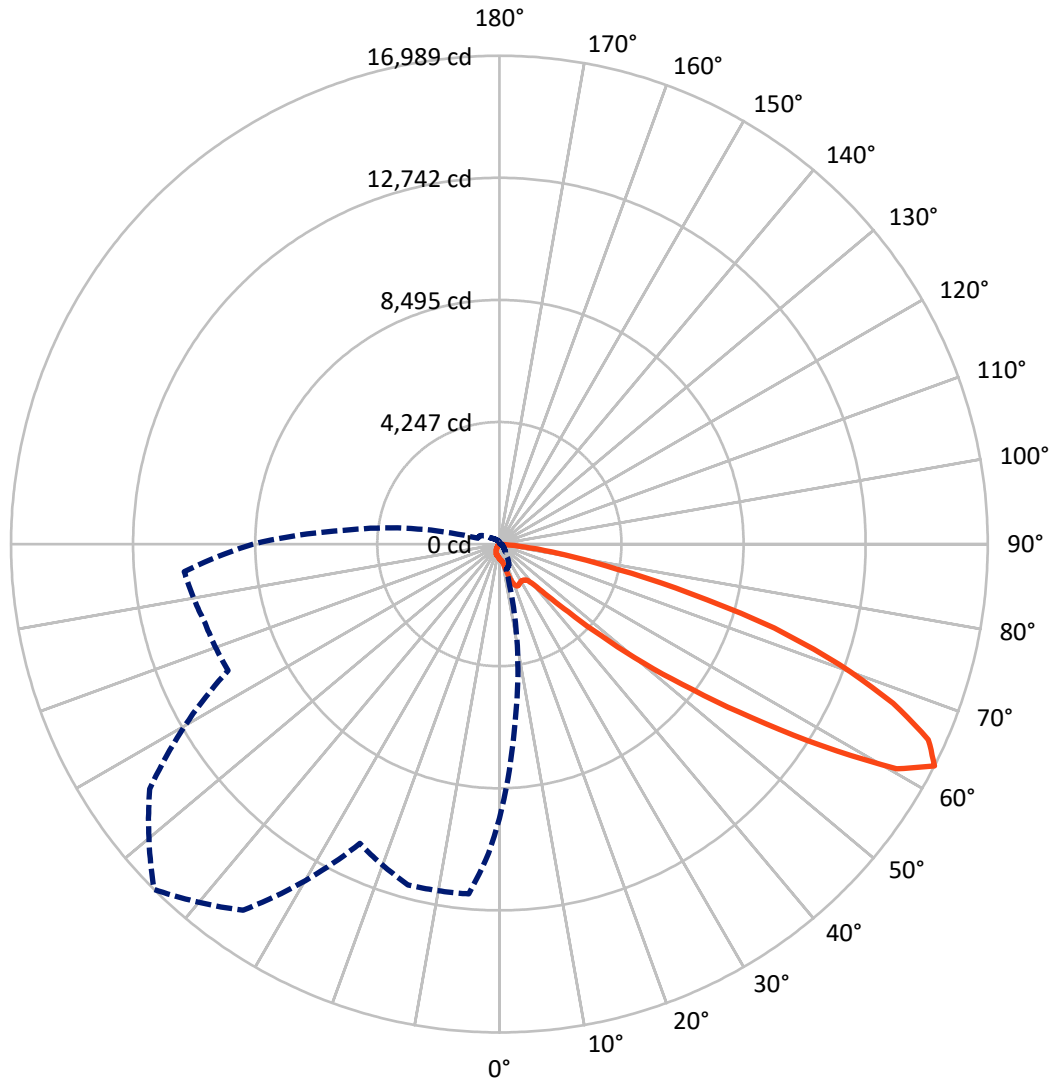
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.5 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	1141.2	0.0	1141.2
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	8681.1	0.0	8681.1
	% Fixture	88.4	0.0	88.4
Total	Lumens	9822.3	0.0	9822.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.0	0.4
10°-20°	150.8	1.5
20°-30°	340.6	3.5
30°-40°	586.8	6.0
40°-50°	1106.9	11.3
50°-60°	2471.4	25.2
60°-70°	3305.4	33.7
70°-80°	1657.6	16.9
80°-90°	158.9	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°	9822.3	100.0
0°-180°	9822.3	100.0

Coefficient of Utilization



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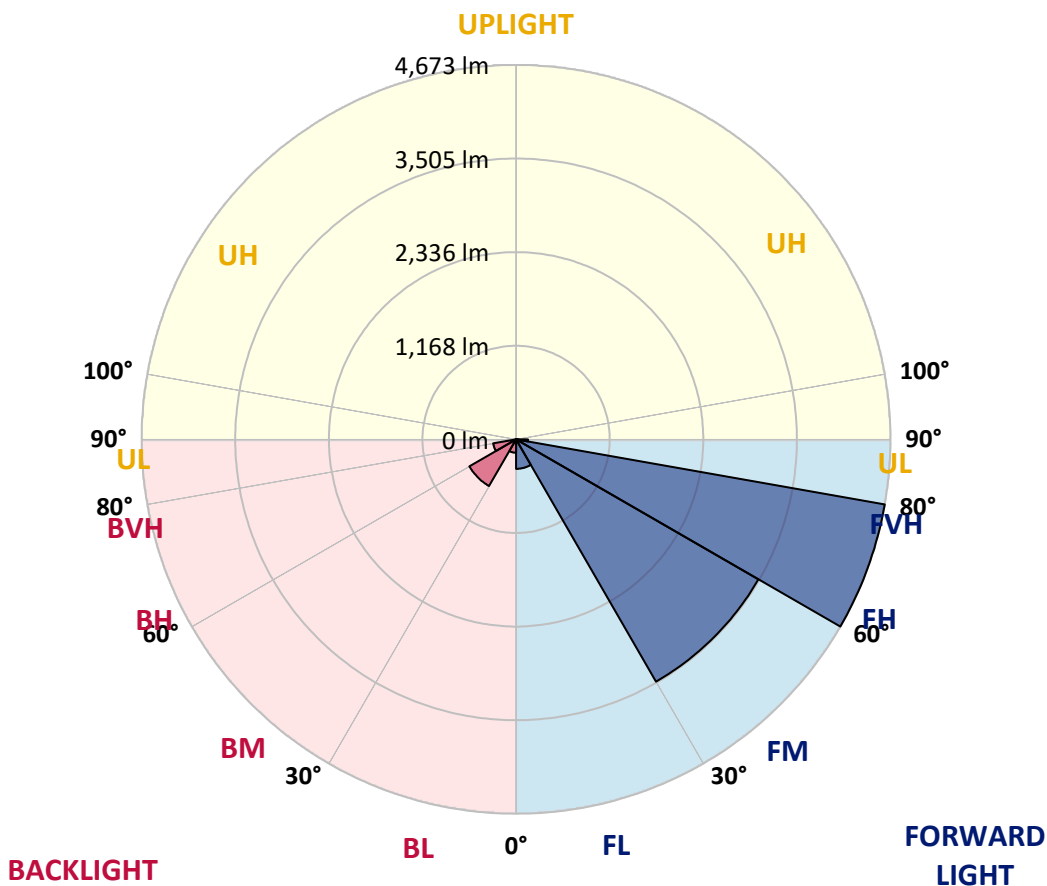
CATALOG NUMBER: GWS-SA2F-740-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	367.9	3.7			
FM (30°-60°)	3492.1	35.6			
FH (60°-80°)	4672.8	47.6			G2/5000
FVH (80°-90°)	148.3	1.5			G2/225
BL (0°-30°)	167.5	1.7	B1/500		
BM (30°-60°)	672.9	6.9	B1/1000		
BH (60°-80°)	290.2	3.0	B1/500		G1/500
BVH (80°-90°)	10.6	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	503.6	502.4	500.1	493.1	487.3	483.8	476.8	476.8	475.7	473.3	468.7
5°	487.3	482.6	478.0	465.2	451.2	443.1	433.8	432.6	432.6	430.3	429.2
7.5°	461.7	457.1	451.2	430.3	417.5	409.4	401.2	400.1	396.6	396.6	396.6
10°	447.8	440.8	431.5	408.2	395.4	388.4	382.6	379.1	376.8	373.3	372.2
12.5°	478.0	465.2	445.4	403.6	386.1	376.8	369.8	367.5	360.5	355.9	352.4
15°	572.2	540.8	501.3	414.0	382.6	368.7	359.4	354.7	348.9	340.8	334.9
17.5°	726.9	681.5	615.2	447.8	379.1	361.7	350.1	341.9	333.8	324.5	317.5
20°	940.9	873.4	794.3	509.4	379.1	353.6	339.6	329.1	317.5	307.0	298.9
22.5°	1213.0	1145.6	1010.7	614.1	383.8	343.1	326.8	312.8	298.9	289.6	280.3
25°	1517.7	1422.4	1296.8	740.8	396.6	329.1	311.7	297.7	284.9	273.3	262.8
27.5°	1857.3	1753.8	1586.3	921.1	424.5	315.2	295.4	282.6	271.0	259.4	245.4
30°	2170.2	2108.5	1937.6	1137.4	469.9	305.9	282.6	271.0	259.4	244.2	231.4
32.5°	2545.8	2436.5	2295.8	1384.0	530.3	296.6	272.1	255.9	246.6	232.6	218.6
35°	2923.8	2830.8	2645.8	1687.5	597.8	287.3	259.4	244.2	236.1	219.8	204.7
37.5°	3313.4	3292.5	3109.9	2023.6	664.1	276.8	244.2	234.9	226.8	208.2	190.7
40°	3697.2	3658.8	3490.2	2407.4	704.8	265.2	231.4	225.6	216.3	195.4	175.6
42.5°	4064.7	4035.6	3871.7	2774.9	699.0	254.7	218.6	211.7	204.7	183.8	159.3
45°	4516.0	4468.3	4261.3	3047.1	639.7	266.3	205.9	194.2	193.1	173.3	143.1
47.5°	5360.3	5203.3	4852.1	3256.4	580.3	296.6	191.9	177.9	186.1	162.8	126.8
50°	6543.1	6358.2	5849.9	3419.3	579.2	336.1	189.6	162.8	180.3	154.7	112.8
52.5°	7731.7	7406.1	6788.5	3506.5	622.2	365.2	210.5	147.7	173.3	146.5	102.3
55°	8870.3	8194.6	7181.6	3218.1	655.9	396.6	248.9	139.6	160.5	137.2	96.5
57.5°	9955.4	8828.4	7352.6	2545.8	768.7	409.4	272.1	143.1	141.9	125.6	91.9
60°	10104.2	8798.2	7007.1	1480.5	847.8	387.3	262.8	159.3	124.4	111.6	83.7
62.5°	9541.3	8213.2	6219.8	923.4	787.4	379.1	233.8	181.4	112.8	98.9	73.3
65°	8686.5	7295.6	5185.9	595.5	596.6	421.0	204.7	177.9	105.8	87.2	62.8
67.5°	7350.2	6105.8	4085.7	398.9	337.3	359.4	179.1	122.1	103.5	74.4	48.8
70°	5365.0	4346.2	2659.8	266.3	201.2	287.3	150.0	87.2	97.7	61.6	34.9
72.5°	3921.7	2920.3	1485.2	174.5	114.0	167.5	110.5	62.8	75.6	45.4	24.4
75°	2822.6	2009.7	847.8	111.6	75.6	91.9	72.1	43.0	48.8	36.1	22.1
77.5°	1358.4	979.3	385.0	61.6	51.2	46.5	38.4	26.7	30.2	32.6	19.8
80°	51.2	38.4	29.1	30.2	32.6	20.9	17.4	14.0	17.4	22.1	10.5
82.5°	0.0	0.0	0.0	3.5	4.7	5.8	7.0	5.8	7.0	8.1	1.2
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°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	472.2	469.9	472.2	474.5	476.8	479.2	475.7	478.0	480.3	474.5	476.8
5°	435.0	433.8	440.8	444.3	448.9	451.2	448.9	448.9	447.8	440.8	440.8
7.5°	402.4	403.6	409.4	417.5	423.3	426.8	424.5	423.3	419.8	409.4	409.4
10°	378.0	378.0	387.3	394.3	402.4	405.9	403.6	400.1	396.6	386.1	385.0
12.5°	358.2	358.2	365.2	376.8	386.1	390.8	389.6	385.0	379.1	368.7	367.5
15°	339.6	338.4	348.9	359.4	372.2	378.0	375.7	372.2	361.7	352.4	350.1
17.5°	321.0	319.8	329.1	343.1	357.0	365.2	364.0	355.9	346.6	334.9	332.6
20°	302.4	300.1	311.7	325.6	339.6	347.7	345.4	338.4	326.8	315.2	312.8
22.5°	283.8	282.6	290.8	302.4	315.2	322.2	321.0	315.2	303.5	293.1	293.1
25°	262.8	262.8	268.7	276.8	286.1	289.6	290.8	288.4	281.4	275.6	275.6
27.5°	245.4	241.9	244.2	246.6	251.2	257.0	257.0	259.4	260.5	258.2	259.4
30°	231.4	225.6	222.1	217.5	215.2	217.5	219.8	228.0	236.1	240.7	243.1
32.5°	215.2	208.2	198.9	186.1	177.9	175.6	182.6	197.7	212.8	223.3	229.1
35°	198.9	189.6	172.1	153.5	143.1	139.6	147.7	165.1	187.2	205.9	214.0
37.5°	182.6	169.8	145.4	123.3	111.6	109.3	117.5	136.1	161.7	187.2	197.7
40°	164.0	148.9	119.8	96.5	87.2	84.9	91.9	110.5	137.2	166.3	182.6
42.5°	145.4	126.8	96.5	76.8	67.5	67.5	76.8	90.7	115.1	146.5	166.3
45°	126.8	107.0	79.1	61.6	55.8	57.0	62.8	76.8	96.5	129.1	147.7
47.5°	109.3	91.9	65.1	51.2	46.5	47.7	54.7	66.3	82.6	111.6	131.4
50°	94.2	77.9	57.0	43.0	39.5	41.9	48.8	59.3	73.3	98.9	115.1
52.5°	84.9	69.8	52.3	37.2	34.9	37.2	44.2	53.5	66.3	87.2	103.5
55°	80.2	68.6	52.3	33.7	30.2	32.6	39.5	48.8	59.3	79.1	93.0
57.5°	79.1	70.9	55.8	30.2	25.6	27.9	34.9	44.2	54.7	72.1	83.7
60°	74.4	67.5	54.7	24.4	19.8	23.3	29.1	38.4	50.0	67.5	77.9
62.5°	65.1	59.3	47.7	19.8	15.1	17.4	24.4	33.7	45.4	61.6	73.3
65°	53.5	47.7	37.2	12.8	9.3	11.6	18.6	29.1	39.5	55.8	66.3
67.5°	39.5	33.7	25.6	8.1	4.7	8.1	15.1	24.4	36.1	50.0	60.5
70°	24.4	19.8	14.0	4.7	3.5	7.0	14.0	23.3	32.6	46.5	57.0
72.5°	14.0	9.3	5.8	2.3	3.5	7.0	14.0	23.3	31.4	44.2	53.5
75°	10.5	5.8	2.3	1.2	2.3	5.8	12.8	20.9	30.2	41.9	51.2
77.5°	7.0	3.5	1.2	0.0	1.2	4.7	11.6	19.8	27.9	39.5	48.8
80°	1.2	0.0	0.0	0.0	0.0	3.5	10.5	17.4	25.6	34.9	43.0
82.5°	0.0	0.0	0.0	0.0	0.0	1.2	8.1	15.1	22.1	29.1	34.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	4.7	11.6	17.4	22.1	24.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	11.6	14.0	16.3
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°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	475.7	482.6	482.6	487.3	493.1	503.6	509.4	517.5	523.4	529.2	531.5
5°	439.6	440.8	441.9	444.3	451.2	462.9	473.3	486.1	501.3	512.9	519.9
7.5°	409.4	409.4	409.4	412.9	419.8	428.0	438.5	455.9	473.3	487.3	498.9
10°	383.8	387.3	388.4	394.3	402.4	412.9	424.5	439.6	459.4	478.0	498.9
12.5°	367.5	371.0	376.8	382.6	390.8	402.4	415.2	435.0	475.7	514.1	558.2
15°	352.4	357.0	364.0	372.2	381.5	394.3	408.2	448.9	544.3	616.4	686.2
17.5°	336.1	343.1	352.4	360.5	372.2	386.1	403.6	482.6	669.9	789.7	908.3
20°	315.2	324.5	334.9	347.7	361.7	378.0	403.6	552.4	851.3	1023.4	1180.5
22.5°	295.4	304.7	317.5	333.8	350.1	366.3	409.4	658.3	1085.1	1302.6	1501.4
25°	279.1	290.8	303.5	317.5	336.1	354.7	423.3	807.1	1366.5	1646.8	1787.5
27.5°	264.0	278.0	290.8	302.4	318.7	339.6	454.7	1006.0	1699.2	1984.1	2094.6
30°	248.9	265.2	278.0	289.6	305.9	328.0	502.4	1259.5	2069.0	2345.8	2357.4
32.5°	236.1	251.2	266.3	278.0	293.1	318.7	568.7	1556.1	2448.1	2715.6	2606.3
35°	222.1	239.6	253.5	266.3	282.6	310.5	645.5	1875.9	2830.8	3055.2	2854.0
37.5°	208.2	228.0	245.4	254.7	271.0	302.4	701.3	2209.7	3221.5	3386.7	3071.5
40°	195.4	217.5	237.3	246.6	254.7	291.9	709.4	2551.6	3618.1	3713.5	3276.2
42.5°	181.4	205.9	223.3	236.1	243.1	284.9	660.6	2840.1	3950.7	4039.1	3543.7
45°	166.3	195.4	209.3	218.6	232.6	289.6	597.8	3063.4	4331.1	4483.4	3984.5
47.5°	151.2	183.8	195.4	202.4	221.0	317.5	574.5	3212.2	4957.9	5274.3	4727.6
50°	137.2	173.3	186.1	184.9	218.6	353.6	600.1	3325.0	5900.0	6272.1	5746.4
52.5°	122.1	161.7	176.8	172.1	236.1	381.5	651.3	3414.6	6624.5	7442.1	7115.3
55°	109.3	148.9	162.8	161.7	268.7	402.4	690.8	2942.4	6924.6	8529.5	8657.5
57.5°	100.0	134.9	146.5	166.3	289.6	402.4	799.0	2088.8	6930.4	9329.7	10704.3
60°	91.9	122.1	130.3	182.6	281.4	381.5	790.8	1279.3	6387.3	9275.0	11792.9
62.5°	84.9	110.5	121.0	187.2	248.9	378.0	714.1	793.2	5447.5	8569.1	11003.2
65°	79.1	101.2	116.3	172.1	225.6	404.7	481.5	569.9	4418.3	7764.3	10097.3
67.5°	73.3	93.0	123.3	140.7	204.7	361.7	347.7	404.7	3468.1	6881.5	9265.7
70°	68.6	88.4	130.3	115.1	179.1	282.6	246.6	307.0	2655.2	5741.8	8094.6
72.5°	65.1	82.6	109.3	90.7	145.4	218.6	172.1	223.3	1735.2	4482.2	6598.9
75°	61.6	75.6	80.2	73.3	108.2	143.1	130.3	150.0	1033.9	3276.2	5006.8
77.5°	60.5	70.9	65.1	59.3	73.3	84.9	98.9	101.2	504.7	1638.7	2623.8
80°	53.5	64.0	55.8	48.8	50.0	55.8	73.3	67.5	115.1	416.4	700.1
82.5°	41.9	50.0	46.5	40.7	40.7	40.7	48.8	45.4	37.2	187.2	316.3
85°	29.1	34.9	34.9	32.6	31.4	31.4	30.2	29.1	10.5	11.6	17.4
87.5°	19.8	24.4	25.6	24.4	20.9	18.6	16.3	14.0	4.7	0.0	2.3
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°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	539.6	543.1	543.1	538.5	535.0	525.7	516.4	507.1	504.7	503.6
5°	539.6	553.6	560.6	559.4	551.3	536.1	516.4	495.4	489.6	487.3
7.5°	531.5	558.2	579.2	582.7	567.5	540.8	504.7	473.3	465.2	461.7
10°	550.1	602.4	644.3	650.1	632.7	580.3	522.2	468.7	455.9	447.8
12.5°	650.1	736.2	787.4	811.8	778.1	711.8	615.2	519.9	490.8	478.0
15°	852.5	974.6	1072.3	1072.3	1040.9	923.4	801.3	646.6	607.1	572.2
17.5°	1111.8	1265.4	1351.4	1342.1	1294.4	1211.9	1065.3	843.2	762.9	726.9
20°	1407.2	1499.1	1518.9	1513.1	1492.1	1444.5	1343.3	1104.9	996.7	940.9
22.5°	1663.1	1638.7	1609.6	1586.3	1580.5	1594.5	1580.5	1396.8	1311.9	1213.0
25°	1836.4	1698.0	1610.8	1568.9	1588.7	1668.9	1756.1	1687.5	1620.1	1517.7
27.5°	1930.6	1691.0	1565.4	1522.4	1556.1	1670.1	1859.7	1976.0	1906.2	1857.3
30°	1981.8	1685.2	1536.3	1494.5	1545.6	1688.7	1931.8	2245.8	2248.1	2170.2
32.5°	2055.0	1722.4	1542.2	1503.8	1572.4	1744.5	2022.5	2520.2	2587.7	2545.8
35°	2137.6	1779.4	1568.9	1534.0	1618.9	1818.9	2123.7	2797.0	2937.8	2923.8
37.5°	2215.5	1843.4	1631.7	1598.0	1689.9	1882.9	2221.4	3069.2	3264.6	3313.4
40°	2296.9	1932.9	1824.8	1857.3	1908.5	1984.1	2308.6	3305.3	3623.9	3697.2
42.5°	2488.8	2243.4	2408.6	2470.2	2477.2	2321.4	2499.3	3607.7	3977.5	4064.7
45°	2916.8	2795.9	3269.2	3356.4	3311.1	2838.9	2958.7	4043.8	4471.8	4516.0
47.5°	3457.6	3513.5	4447.4	4748.6	4476.4	3449.5	3515.8	4961.4	5376.6	5360.3
50°	4088.0	4352.0	5784.8	6495.4	5844.1	4242.7	4157.8	6089.5	6593.1	6543.1
52.5°	4833.5	5326.6	7392.1	8401.6	7785.2	5134.7	5099.8	7584.0	7891.0	7731.7
55°	5772.0	6267.5	9241.3	10652.0	9775.1	6223.3	6343.1	9316.9	9376.2	8870.3
57.5°	7172.3	7494.4	11420.8	13232.7	11852.2	7702.6	8571.4	11623.1	10913.7	9955.4
60°	9714.6	9072.6	13527.0	15872.8	14062.0	9783.2	11510.3	12989.7	11425.4	10104.2
62.5°	10599.7	10412.4	14845.8	16989.3	15548.3	11491.7	12274.4	12215.1	10762.5	9541.3
65°	9258.7	10078.6	14609.7	16399.6	15357.6	11210.3	11014.9	11360.3	10015.8	8686.5
67.5°	8552.8	9294.8	13715.4	14772.6	14300.4	10255.4	9818.1	9723.9	8408.6	7350.2
70°	7841.0	8576.0	12418.6	12550.0	12330.2	8699.3	8124.8	7493.3	6284.9	5365.0
72.5°	6985.0	7389.8	10619.4	9996.1	9747.2	6832.7	6711.7	5642.9	4711.4	3921.7
75°	6091.8	5974.4	8279.5	6860.6	7046.7	5316.1	5668.5	4143.8	3451.8	2822.6
77.5°	4431.1	4343.8	5545.2	4167.1	4614.8	3482.1	3128.5	1653.8	1574.7	1358.4
80°	2472.6	2980.8	2994.8	2335.3	2913.3	2270.2	782.7	54.7	34.9	51.2
82.5°	1149.1	1281.6	1623.6	1082.8	1661.9	1124.6	161.7	0.0	0.0	0.0
85°	372.2	544.3	455.9	159.3	402.4	380.3	26.7	0.0	0.0	0.0
87.5°	22.1	45.4	11.6	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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