

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: P637216

Luminaire Tested: GWS-SA4C-735-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637216
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11592.1 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

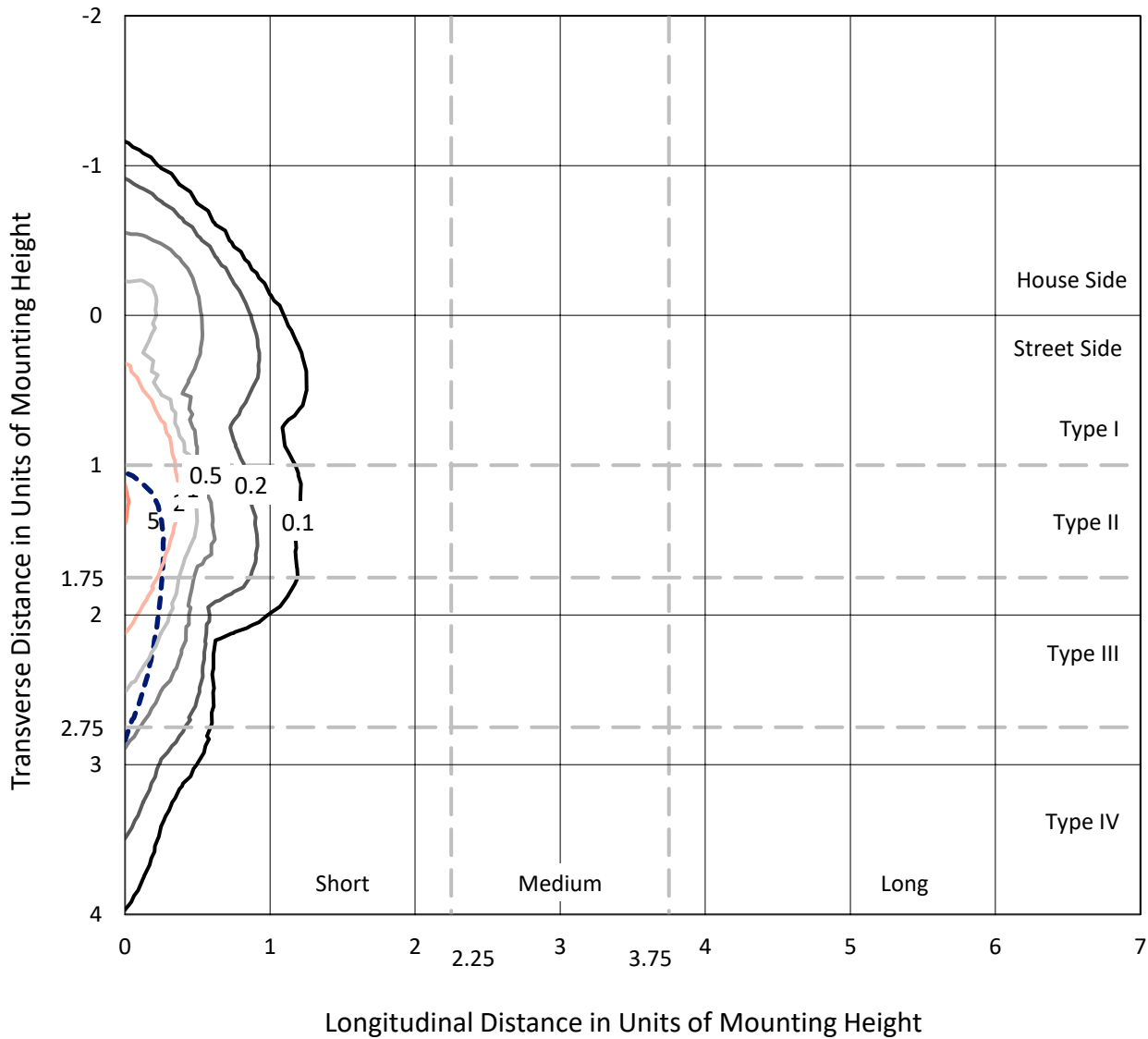
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

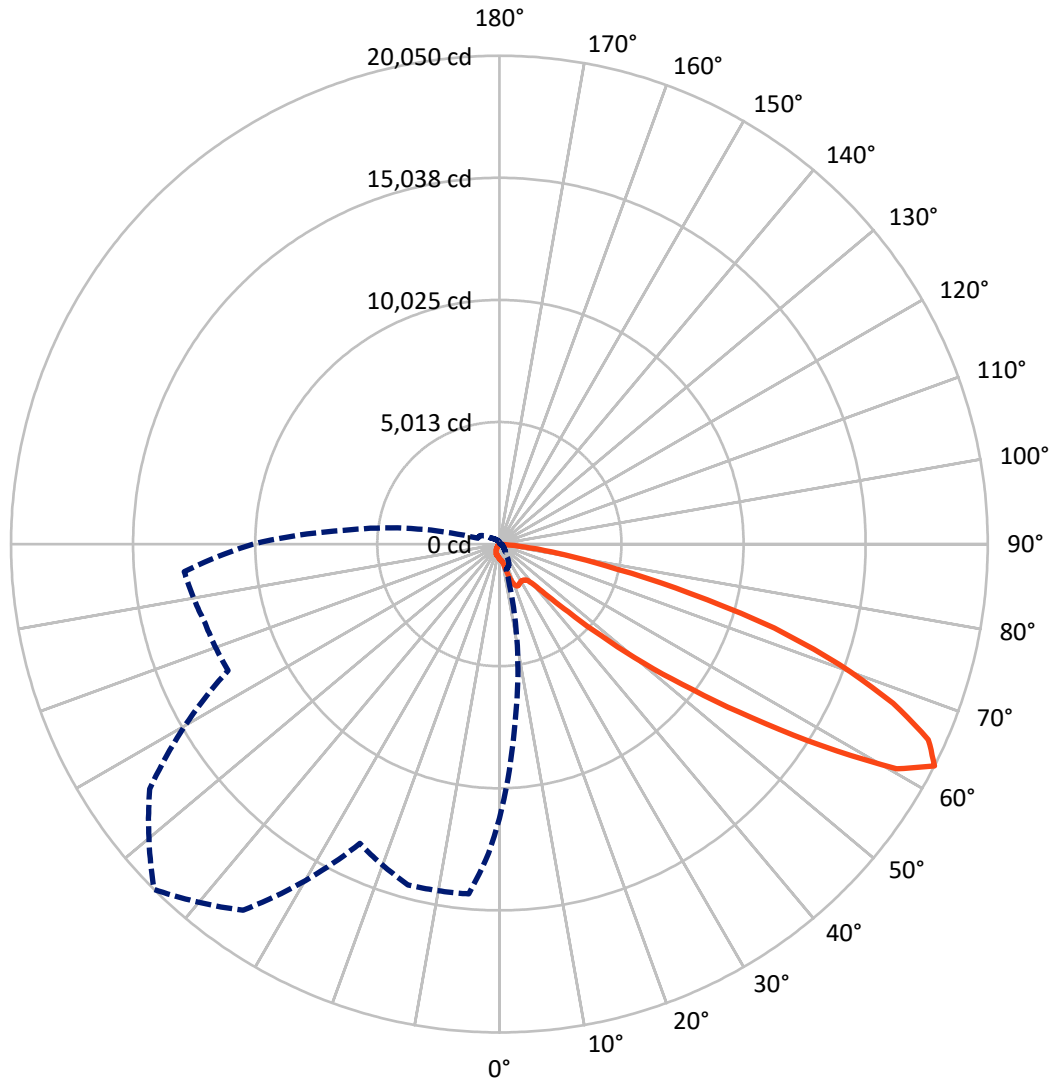
✕ Max cd
 - - - 1/2 Max cd



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	1346.9	0.0	1346.9
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	10245.2	0.0	10245.2
	% Fixture	88.4	0.0	88.4
Total	Lumens	11592.1	0.0	11592.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	0.4
10°-20°	177.9	1.5
20°-30°	402.0	3.5
30°-40°	692.5	6.0
40°-50°	1306.3	11.3
50°-60°	2916.7	25.2
60°-70°	3901.0	33.7
70°-80°	1956.2	16.9
80°-90°	187.5	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°	11592.1	100.0
0°-180°	11592.1	100.0

Coefficient of Utilization



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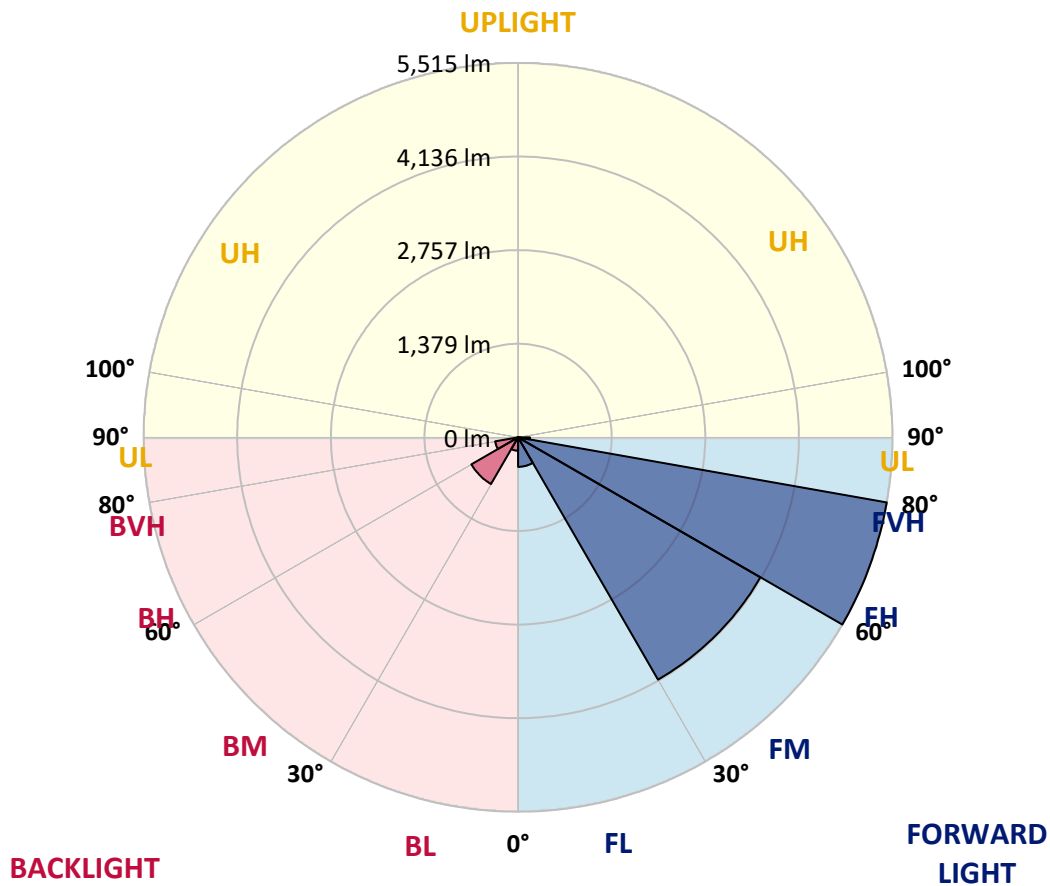
CATALOG NUMBER: GWS-SA4C-735-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	434.1	3.7			
FM (30°-60°)	4121.3	35.6			
FH (60°-80°)	5514.7	47.6			G3/7500
FVH (80°-90°)	175.0	1.5			G2/225
BL (0°-30°)	197.7	1.7	B1/500		
BM (30°-60°)	794.2	6.9	B1/1000		
BH (60°-80°)	342.5	3.0	B1/500		G1/500
BVH (80°-90°)	12.5	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°	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2
2.5°	594.3	592.9	590.2	582.0	575.1	571.0	562.8	562.8	561.4	558.6	553.1
5°	575.1	569.6	564.1	549.0	532.6	522.9	512.0	510.6	510.6	507.8	506.5
7.5°	544.9	539.4	532.6	507.8	492.8	483.1	473.5	472.2	468.0	468.0	468.0
10°	528.4	520.2	509.2	481.8	466.7	458.4	451.6	447.5	444.7	440.6	439.2
12.5°	564.1	549.0	525.7	476.3	455.7	444.7	436.5	433.7	425.5	420.0	415.9
15°	675.3	638.2	591.6	488.6	451.6	435.1	424.1	418.6	411.8	402.2	395.3
17.5°	857.9	804.3	726.1	528.4	447.5	426.9	413.1	403.5	393.9	382.9	374.7
20°	1110.4	1030.8	937.5	601.2	447.5	417.3	400.8	388.4	374.7	362.4	352.7
22.5°	1431.6	1352.0	1192.8	724.7	452.9	404.9	385.7	369.2	352.7	341.8	330.8
25°	1791.2	1678.6	1530.4	874.3	468.0	388.4	367.8	351.4	336.3	322.6	310.2
27.5°	2192.0	2069.8	1872.2	1087.1	501.0	372.0	348.6	333.5	319.8	306.1	289.6
30°	2561.2	2488.5	2286.7	1342.4	554.5	361.0	333.5	319.8	306.1	288.2	273.1
32.5°	3004.5	2875.5	2709.4	1633.4	625.9	350.0	321.2	302.0	291.0	274.5	258.0
35°	3450.6	3340.8	3122.6	1991.6	705.5	339.0	306.1	288.2	278.6	259.4	241.6
37.5°	3910.4	3885.7	3670.2	2388.3	783.7	326.7	288.2	277.3	267.6	245.7	225.1
40°	4363.4	4318.1	4119.1	2841.2	831.8	312.9	273.1	266.3	255.3	230.6	207.3
42.5°	4797.1	4762.8	4569.3	3274.9	824.9	300.6	258.0	249.8	241.6	216.9	188.0
45°	5329.7	5273.4	5029.1	3596.1	754.9	314.3	242.9	229.2	227.8	204.5	168.8
47.5°	6326.1	6140.9	5726.3	3843.2	684.9	350.0	226.5	210.0	219.6	192.2	149.6
50°	7722.0	7503.8	6904.0	4035.3	683.5	396.7	223.7	192.2	212.7	182.6	133.1
52.5°	9124.8	8740.5	8011.7	4138.3	734.3	431.0	248.4	174.3	204.5	172.9	120.8
55°	10468.5	9671.1	8475.6	3797.9	774.1	468.0	293.7	164.7	189.4	162.0	113.9
57.5°	11749.1	10419.1	8677.3	3004.5	907.3	483.1	321.2	168.8	167.5	148.2	108.4
60°	11924.8	10383.4	8269.7	1747.3	1000.6	457.1	310.2	188.0	146.9	131.8	98.8
62.5°	11260.5	9693.0	7340.5	1089.8	929.2	447.5	275.9	214.1	133.1	116.7	86.5
65°	10251.7	8610.1	6120.3	702.8	704.1	496.9	241.6	210.0	124.9	102.9	74.1
67.5°	8674.6	7206.0	4821.8	470.8	398.0	424.1	211.4	144.1	122.2	87.8	57.6
70°	6331.6	5129.3	3139.1	314.3	237.5	339.0	177.1	102.9	115.3	72.7	41.2
72.5°	4628.3	3446.5	1752.8	205.9	134.5	197.6	130.4	74.1	89.2	53.5	28.8
75°	3331.2	2371.8	1000.6	131.8	89.2	108.4	85.1	50.8	57.6	42.5	26.1
77.5°	1603.2	1155.7	454.3	72.7	60.4	54.9	45.3	31.6	35.7	38.4	23.3
80°	60.4	45.3	34.3	35.7	38.4	24.7	20.6	16.5	20.6	26.1	12.4
82.5°	0.0	0.0	0.0	4.1	5.5	6.9	8.2	6.9	8.2	9.6	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°	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2
2.5°	557.3	554.5	557.3	560.0	562.8	565.5	561.4	564.1	566.9	560.0	562.8
5°	513.3	512.0	520.2	524.3	529.8	532.6	529.8	529.8	528.4	520.2	520.2
7.5°	474.9	476.3	483.1	492.8	499.6	503.7	501.0	499.6	495.5	483.1	483.1
10°	446.1	446.1	457.1	465.3	474.9	479.0	476.3	472.2	468.0	455.7	454.3
12.5°	422.7	422.7	431.0	444.7	455.7	461.2	459.8	454.3	447.5	435.1	433.7
15°	400.8	399.4	411.8	424.1	439.2	446.1	443.3	439.2	426.9	415.9	413.1
17.5°	378.8	377.5	388.4	404.9	421.4	431.0	429.6	420.0	409.0	395.3	392.6
20°	356.9	354.1	367.8	384.3	400.8	410.4	407.7	399.4	385.7	372.0	369.2
22.5°	334.9	333.5	343.1	356.9	372.0	380.2	378.8	372.0	358.2	345.9	345.9
25°	310.2	310.2	317.1	326.7	337.7	341.8	343.1	340.4	332.2	325.3	325.3
27.5°	289.6	285.5	288.2	291.0	296.5	303.3	303.3	306.1	307.5	304.7	306.1
30°	273.1	266.3	262.2	256.7	253.9	256.7	259.4	269.0	278.6	284.1	286.9
32.5°	253.9	245.7	234.7	219.6	210.0	207.3	215.5	233.3	251.2	263.5	270.4
35°	234.7	223.7	203.1	181.2	168.8	164.7	174.3	194.9	221.0	242.9	252.6
37.5°	215.5	200.4	171.6	145.5	131.8	129.0	138.6	160.6	190.8	221.0	233.3
40°	193.5	175.7	141.4	113.9	102.9	100.2	108.4	130.4	162.0	196.3	215.5
42.5°	171.6	149.6	113.9	90.6	79.6	79.6	90.6	107.1	135.9	172.9	196.3
45°	149.6	126.3	93.3	72.7	65.9	67.3	74.1	90.6	113.9	152.4	174.3
47.5°	129.0	108.4	76.9	60.4	54.9	56.3	64.5	78.2	97.5	131.8	155.1
50°	111.2	92.0	67.3	50.8	46.7	49.4	57.6	70.0	86.5	116.7	135.9
52.5°	100.2	82.4	61.8	43.9	41.2	43.9	52.2	63.1	78.2	102.9	122.2
55°	94.7	81.0	61.8	39.8	35.7	38.4	46.7	57.6	70.0	93.3	109.8
57.5°	93.3	83.7	65.9	35.7	30.2	32.9	41.2	52.2	64.5	85.1	98.8
60°	87.8	79.6	64.5	28.8	23.3	27.5	34.3	45.3	59.0	79.6	92.0
62.5°	76.9	70.0	56.3	23.3	17.8	20.6	28.8	39.8	53.5	72.7	86.5
65°	63.1	56.3	43.9	15.1	11.0	13.7	22.0	34.3	46.7	65.9	78.2
67.5°	46.7	39.8	30.2	9.6	5.5	9.6	17.8	28.8	42.5	59.0	71.4
70°	28.8	23.3	16.5	5.5	4.1	8.2	16.5	27.5	38.4	54.9	67.3
72.5°	16.5	11.0	6.9	2.7	4.1	8.2	16.5	27.5	37.1	52.2	63.1
75°	12.4	6.9	2.7	1.4	2.7	6.9	15.1	24.7	35.7	49.4	60.4
77.5°	8.2	4.1	1.4	0.0	1.4	5.5	13.7	23.3	32.9	46.7	57.6
80°	1.4	0.0	0.0	0.0	0.0	4.1	12.4	20.6	30.2	41.2	50.8
82.5°	0.0	0.0	0.0	0.0	0.0	1.4	9.6	17.8	26.1	34.3	41.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	5.5	13.7	20.6	26.1	28.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	13.7	16.5	19.2
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°	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2
2.5°	561.4	569.6	569.6	575.1	582.0	594.3	601.2	610.8	617.7	624.5	627.3
5°	518.8	520.2	521.6	524.3	532.6	546.3	558.6	573.7	591.6	605.3	613.5
7.5°	483.1	483.1	483.1	487.3	495.5	505.1	517.5	538.0	558.6	575.1	588.8
10°	452.9	457.1	458.4	465.3	474.9	487.3	501.0	518.8	542.2	564.1	588.8
12.5°	433.7	437.8	444.7	451.6	461.2	474.9	490.0	513.3	561.4	606.7	658.8
15°	415.9	421.4	429.6	439.2	450.2	465.3	481.8	529.8	642.4	727.5	809.8
17.5°	396.7	404.9	415.9	425.5	439.2	455.7	476.3	569.6	790.6	932.0	1072.0
20°	372.0	382.9	395.3	410.4	426.9	446.1	476.3	652.0	1004.7	1207.9	1393.2
22.5°	348.6	359.6	374.7	393.9	413.1	432.4	483.1	776.9	1280.6	1537.3	1772.0
25°	329.4	343.1	358.2	374.7	396.7	418.6	499.6	952.6	1612.8	1943.6	2109.6
27.5°	311.6	328.0	343.1	356.9	376.1	400.8	536.7	1187.3	2005.3	2341.6	2472.0
30°	293.7	312.9	328.0	341.8	361.0	387.1	592.9	1486.5	2441.8	2768.5	2782.2
32.5°	278.6	296.5	314.3	328.0	345.9	376.1	671.2	1836.5	2889.2	3204.9	3075.9
35°	262.2	282.7	299.2	314.3	333.5	366.5	761.8	2213.9	3340.8	3605.7	3368.3
37.5°	245.7	269.0	289.6	300.6	319.8	356.9	827.7	2607.9	3802.0	3996.9	3624.9
40°	230.6	256.7	280.0	291.0	300.6	344.5	837.3	3011.4	4270.0	4382.6	3866.5
42.5°	214.1	242.9	263.5	278.6	286.9	336.3	779.6	3351.8	4662.6	4766.9	4182.2
45°	196.3	230.6	247.1	258.0	274.5	341.8	705.5	3615.3	5111.4	5291.2	4702.4
47.5°	178.4	216.9	230.6	238.8	260.8	374.7	678.0	3791.0	5851.2	6224.6	5579.5
50°	162.0	204.5	219.6	218.2	258.0	417.3	708.2	3924.2	6963.0	7402.2	6781.8
52.5°	144.1	190.8	208.6	203.1	278.6	450.2	768.6	4029.8	7818.1	8783.0	8397.3
55°	129.0	175.7	192.2	190.8	317.1	474.9	815.3	3472.6	8172.2	10066.4	10217.4
57.5°	118.0	159.2	172.9	196.3	341.8	474.9	943.0	2465.1	8179.1	11010.7	12633.1
60°	108.4	144.1	153.7	215.5	332.2	450.2	933.3	1509.8	7538.1	10946.2	13917.8
62.5°	100.2	130.4	142.7	221.0	293.7	446.1	842.8	936.1	6429.1	10113.1	12985.8
65°	93.3	119.4	137.3	203.1	266.3	477.7	568.2	672.6	5214.4	9163.2	11916.6
67.5°	86.5	109.8	145.5	166.1	241.6	426.9	410.4	477.7	4093.0	8121.5	10935.2
70°	81.0	104.3	153.7	135.9	211.4	333.5	291.0	362.4	3133.6	6776.3	9553.0
72.5°	76.9	97.5	129.0	107.1	171.6	258.0	203.1	263.5	2047.9	5289.9	7787.9
75°	72.7	89.2	94.7	86.5	127.6	168.8	153.7	177.1	1220.2	3866.5	5908.9
77.5°	71.4	83.7	76.9	70.0	86.5	100.2	116.7	119.4	595.7	1933.9	3096.5
80°	63.1	75.5	65.9	57.6	59.0	65.9	86.5	79.6	135.9	491.4	826.3
82.5°	49.4	59.0	54.9	48.0	48.0	48.0	57.6	53.5	43.9	221.0	373.3
85°	34.3	41.2	41.2	38.4	37.1	37.1	35.7	34.3	12.4	13.7	20.6
87.5°	23.3	28.8	30.2	28.8	24.7	22.0	19.2	16.5	5.5	0.0	2.7
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°	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2
2.5°	636.9	641.0	641.0	635.5	631.4	620.4	609.4	598.4	595.7	594.3
5°	636.9	653.3	661.6	660.2	650.6	632.8	609.4	584.7	577.8	575.1
7.5°	627.3	658.8	683.5	687.7	669.8	638.2	595.7	558.6	549.0	544.9
10°	649.2	711.0	760.4	767.3	746.7	684.9	616.3	553.1	538.0	528.4
12.5°	767.3	868.8	929.2	958.0	918.2	840.0	726.1	613.5	579.2	564.1
15°	1006.1	1150.2	1265.5	1265.5	1228.4	1089.8	945.7	763.1	716.5	675.3
17.5°	1312.2	1493.3	1594.9	1583.9	1527.7	1430.2	1257.3	995.1	900.4	857.9
20°	1660.8	1769.2	1792.6	1785.7	1761.0	1704.7	1585.3	1303.9	1176.3	1110.4
22.5°	1962.8	1933.9	1899.6	1872.2	1865.3	1881.8	1865.3	1648.4	1548.3	1431.6
25°	2167.3	2003.9	1901.0	1851.6	1874.9	1969.6	2072.6	1991.6	1912.0	1791.2
27.5°	2278.5	1995.7	1847.5	1796.7	1836.5	1971.0	2194.7	2332.0	2249.6	2192.0
30°	2338.8	1988.8	1813.2	1763.7	1824.1	1993.0	2279.8	2650.4	2653.2	2561.2
32.5°	2425.3	2032.8	1820.0	1774.7	1855.7	2058.8	2386.9	2974.3	3054.0	3004.5
35°	2522.8	2100.0	1851.6	1810.4	1910.6	2146.7	2506.3	3301.0	3467.1	3450.6
37.5°	2614.7	2175.5	1925.7	1885.9	1994.3	2222.2	2621.6	3622.2	3852.8	3910.4
40°	2710.8	2281.2	2153.6	2192.0	2252.4	2341.6	2724.5	3900.8	4276.9	4363.4
42.5°	2937.3	2647.7	2842.6	2915.3	2923.6	2739.6	2949.6	4257.7	4694.2	4797.1
45°	3442.4	3299.6	3858.3	3961.2	3907.7	3350.4	3491.8	4772.4	5277.5	5329.7
47.5°	4080.6	4146.5	5248.7	5604.2	5283.0	4071.0	4149.3	5855.4	6345.4	6326.1
50°	4824.6	5136.1	6827.1	7665.8	6897.1	5007.1	4906.9	7186.7	7781.1	7722.0
52.5°	5704.4	6286.3	8724.0	9915.4	9187.9	6059.9	6018.7	8950.5	9312.8	9124.8
55°	6812.0	7396.7	10906.4	12571.3	11536.4	7344.6	7486.0	10995.6	11065.6	10468.5
57.5°	8464.6	8844.8	13478.6	15617.0	13987.8	9090.5	10115.8	13717.4	12880.1	11749.1
60°	11465.0	10707.4	15964.3	18732.8	16595.7	11546.0	13584.3	15330.2	13484.1	11924.8
62.5°	12509.5	12288.6	17520.8	20050.4	18349.8	13562.3	14486.0	14416.0	12701.7	11260.5
65°	10927.0	11894.6	17242.1	19354.5	18124.7	13230.1	12999.6	13407.2	11820.5	10251.7
67.5°	10093.8	10969.5	16186.6	17434.3	16877.0	12103.3	11587.2	11476.0	9923.6	8674.6
70°	9253.8	10121.3	14656.2	14811.3	14551.9	10266.8	9588.7	8843.4	7417.3	6331.6
72.5°	8243.6	8721.3	12532.9	11797.2	11503.5	8063.8	7921.1	6659.7	5560.3	4628.3
75°	7189.5	7050.9	9771.3	8096.8	8316.4	6274.0	6689.9	4890.4	4073.8	3331.2
77.5°	5229.5	5126.5	6544.4	4917.9	5446.3	4109.5	3692.2	1951.8	1858.5	1603.2
80°	2918.1	3517.9	3534.4	2756.1	3438.3	2679.2	923.7	64.5	41.2	60.4
82.5°	1356.1	1512.6	1916.1	1277.9	1961.4	1327.3	190.8	0.0	0.0	0.0
85°	439.2	642.4	538.0	188.0	474.9	448.8	31.6	0.0	0.0	0.0
87.5°	26.1	53.5	13.7	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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