

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: P637051

Luminaire Tested: GWS-SA4C-722-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637051
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-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8657.3 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

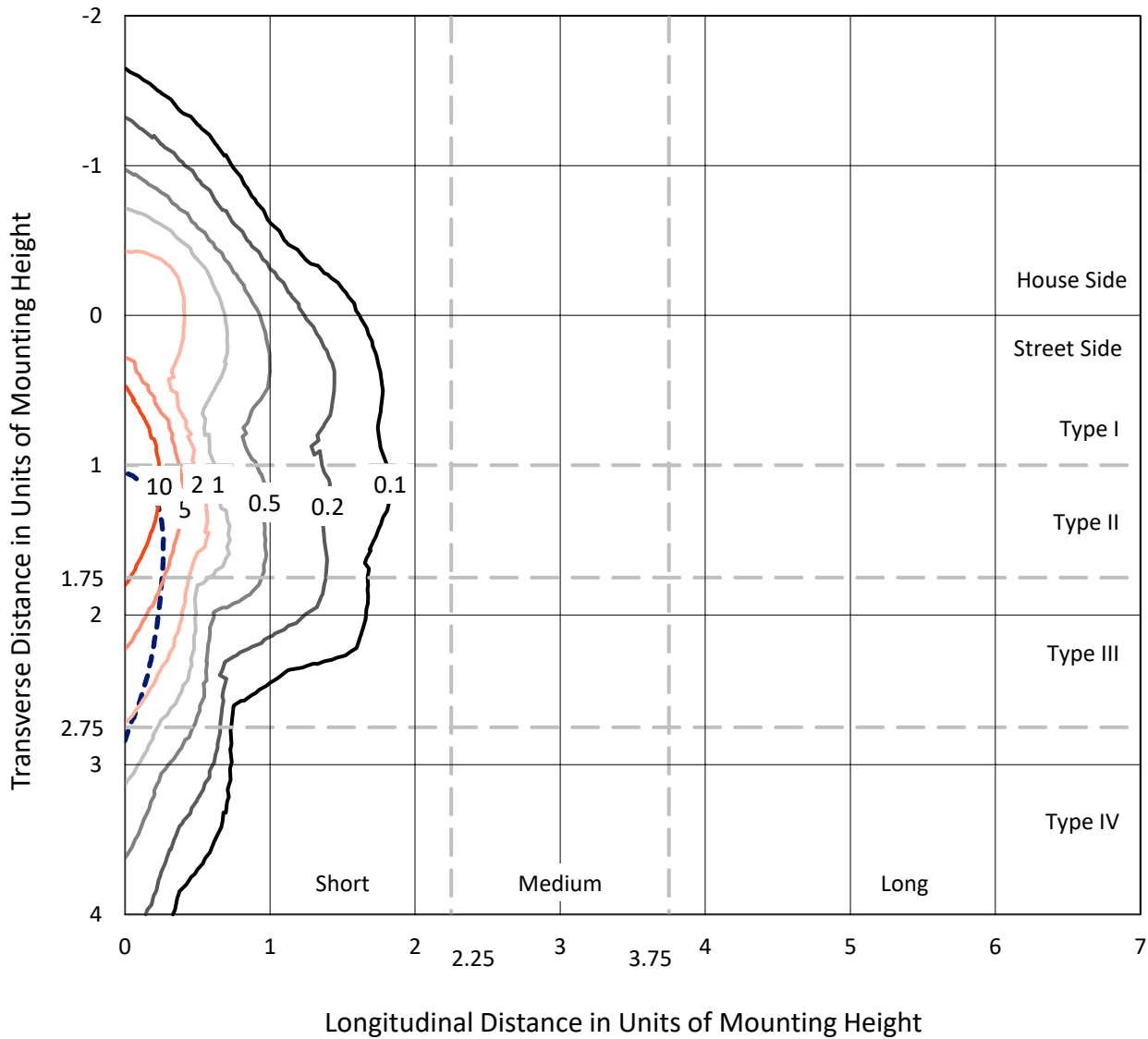
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

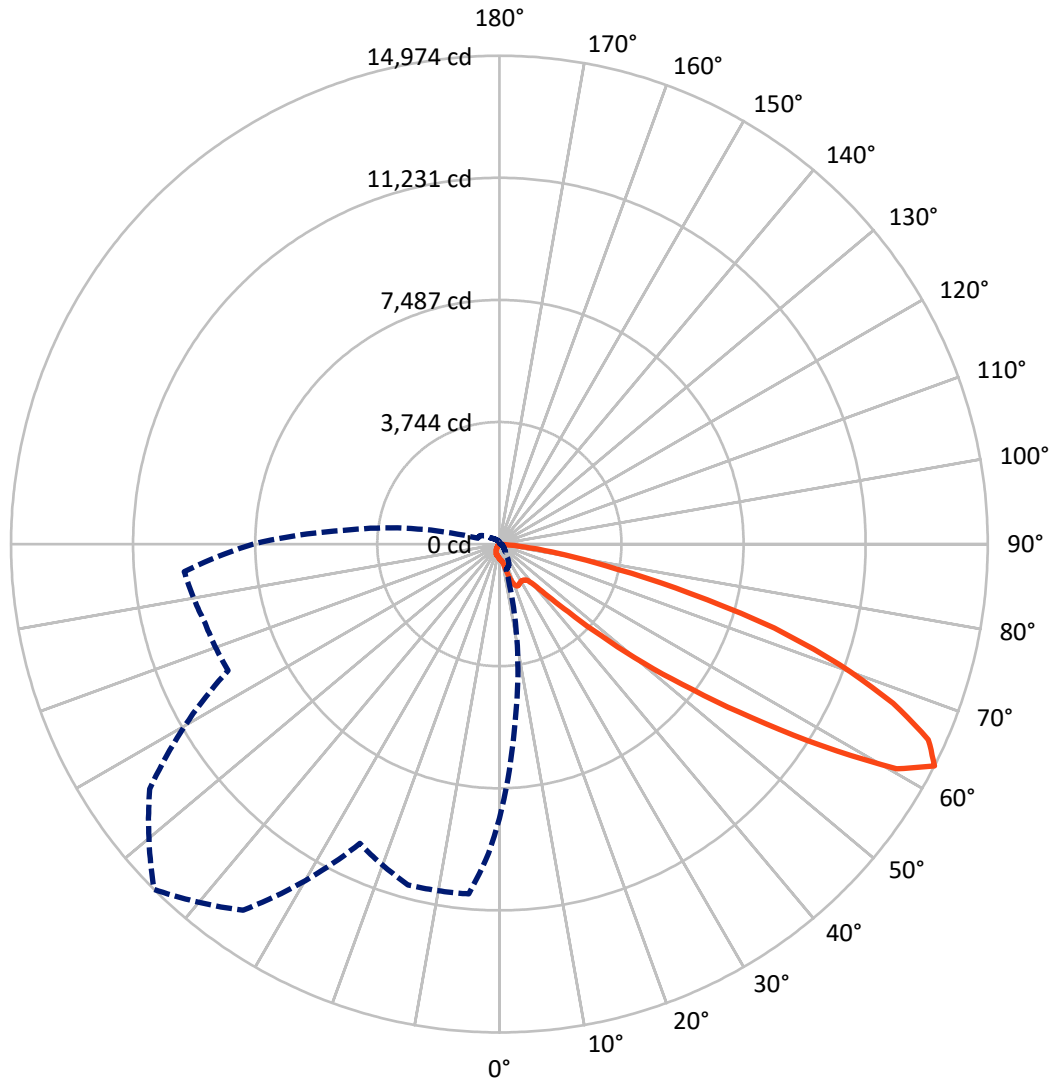
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.4 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	1005.9	0.0	1005.9
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	7651.4	0.0	7651.4
	% Fixture	88.4	0.0	88.4
Total	Lumens	8657.3	0.0	8657.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.8	0.4
10°-20°	132.9	1.5
20°-30°	300.2	3.5
30°-40°	517.2	6.0
40°-50°	975.6	11.3
50°-60°	2178.3	25.2
60°-70°	2913.4	33.7
70°-80°	1461.0	16.9
80°-90°	140.0	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°	8657.3	100.0
0°-180°	8657.3	100.0

Coefficient of Utilization



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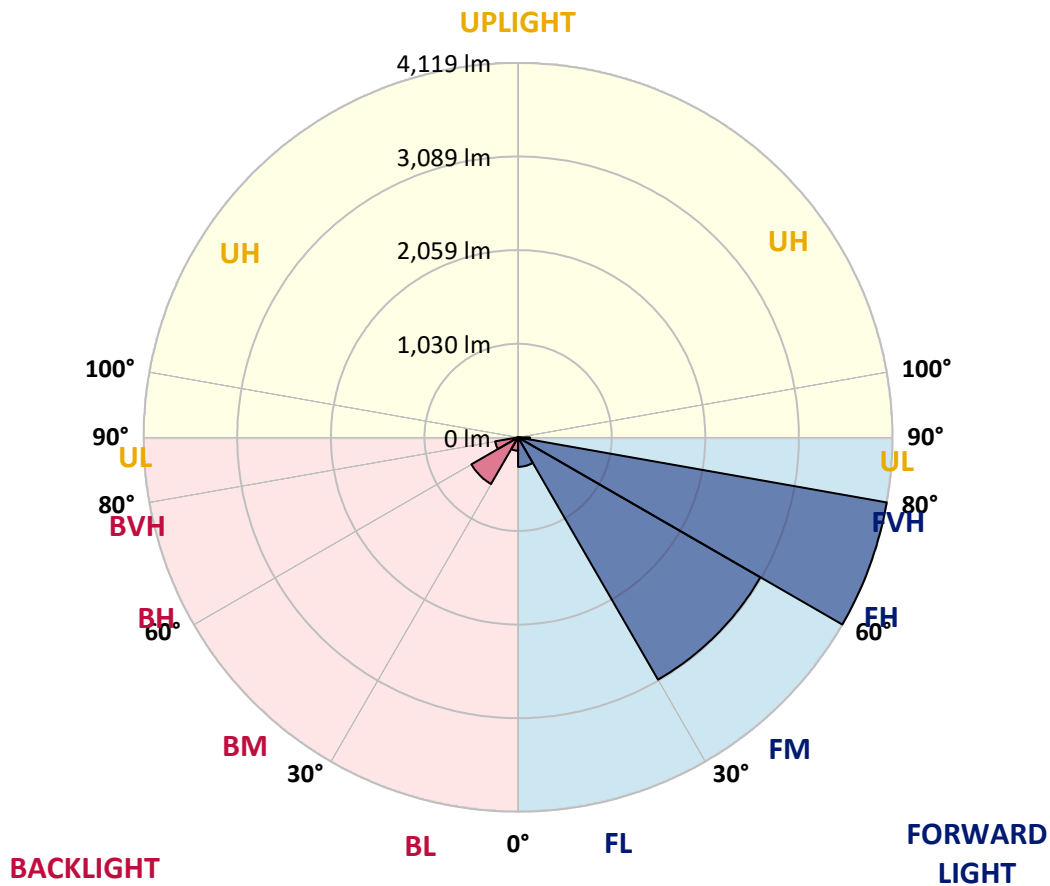
CATALOG NUMBER: GWS-SA4C-722-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	324.2	3.7			
FM (30°-60°)	3077.9	35.6			
FH (60°-80°)	4118.6	47.6			G2/5000
FVH (80°-90°)	130.7	1.5			G2/225
BL (0°-30°)	147.6	1.7	B1/500		
BM (30°-60°)	593.1	6.9	B1/1000		
BH (60°-80°)	255.8	3.0	B1/500		G1/500
BVH (80°-90°)	9.3	0.1			G0/10
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°	449.0	449.0	449.0	449.0	449.0	449.0	449.0	449.0	449.0	449.0	449.0
2.5°	443.9	442.8	440.8	434.6	429.5	426.4	420.3	420.3	419.3	417.2	413.1
5°	429.5	425.4	421.3	410.0	397.7	390.6	382.4	381.3	381.3	379.3	378.3
7.5°	407.0	402.9	397.7	379.3	368.0	360.8	353.6	352.6	349.5	349.5	349.5
10°	394.7	388.5	380.3	359.8	348.5	342.4	337.2	334.2	332.1	329.0	328.0
12.5°	421.3	410.0	392.6	355.7	340.3	332.1	326.0	323.9	317.8	313.7	310.6
15°	504.3	476.7	441.8	364.9	337.2	324.9	316.7	312.6	307.5	300.3	295.2
17.5°	640.7	600.7	542.3	394.7	334.2	318.8	308.5	301.4	294.2	286.0	279.8
20°	829.3	769.8	700.1	449.0	334.2	311.6	299.3	290.1	279.8	270.6	263.4
22.5°	1069.1	1009.7	890.8	541.2	338.3	302.4	288.0	275.7	263.4	255.2	247.0
25°	1337.7	1253.7	1143.0	653.0	349.5	290.1	274.7	262.4	251.1	240.9	231.7
27.5°	1637.0	1545.8	1398.2	811.9	374.2	277.8	260.4	249.1	238.8	228.6	216.3
30°	1912.8	1858.4	1707.8	1002.5	414.1	269.6	249.1	238.8	228.6	215.3	204.0
32.5°	2243.9	2147.5	2023.5	1219.8	467.4	261.4	239.9	225.5	217.3	205.0	192.7
35°	2577.0	2495.0	2332.0	1487.4	526.9	253.2	228.6	215.3	208.1	193.7	180.4
37.5°	2920.4	2902.0	2741.0	1783.6	585.3	244.0	215.3	207.1	199.9	183.5	168.1
40°	3258.7	3224.9	3076.2	2121.9	621.2	233.7	204.0	198.9	190.7	172.2	154.8
42.5°	3582.6	3557.0	3412.5	2445.8	616.1	224.5	192.7	186.6	180.4	162.0	140.4
45°	3980.3	3938.3	3755.9	2685.7	563.8	234.7	181.4	171.2	170.2	152.7	126.1
47.5°	4724.5	4586.2	4276.6	2870.2	511.5	261.4	169.1	156.8	164.0	143.5	111.7
50°	5767.0	5604.0	5156.1	3013.7	510.5	296.2	167.1	143.5	158.9	136.3	99.4
52.5°	6814.7	6527.6	5983.3	3090.6	548.4	321.9	185.5	130.2	152.7	129.2	90.2
55°	7818.2	7222.6	6329.8	2836.4	578.1	349.5	219.4	123.0	141.5	121.0	85.1
57.5°	8774.6	7781.3	6480.5	2243.9	677.6	360.8	239.9	126.1	125.1	110.7	81.0
60°	8905.8	7754.6	6176.0	1304.9	747.3	341.3	231.7	140.4	109.7	98.4	73.8
62.5°	8409.7	7239.0	5482.1	813.9	694.0	334.2	206.0	159.9	99.4	87.1	64.6
65°	7656.2	6430.3	4570.8	524.8	525.9	371.1	180.4	156.8	93.3	76.9	55.4
67.5°	6478.4	5381.6	3601.1	351.6	297.3	316.7	157.9	107.6	91.2	65.6	43.1
70°	4728.6	3830.7	2344.3	234.7	177.3	253.2	132.2	76.9	86.1	54.3	30.8
72.5°	3456.5	2573.9	1309.0	153.8	100.5	147.6	97.4	55.4	66.6	40.0	21.5
75°	2487.8	1771.3	747.3	98.4	66.6	81.0	63.6	37.9	43.1	31.8	19.5
77.5°	1197.3	863.1	339.3	54.3	45.1	41.0	33.8	23.6	26.7	28.7	17.4
80°	45.1	33.8	25.6	26.7	28.7	18.5	15.4	12.3	15.4	19.5	9.2
82.5°	0.0	0.0	0.0	3.1	4.1	5.1	6.2	5.1	6.2	7.2	1.0
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°	449.0	449.0	449.0	449.0	449.0	449.0	449.0	449.0	449.0	449.0	449.0
2.5°	416.2	414.1	416.2	418.2	420.3	422.3	419.3	421.3	423.4	418.2	420.3
5°	383.4	382.4	388.5	391.6	395.7	397.7	395.7	395.7	394.7	388.5	388.5
7.5°	354.7	355.7	360.8	368.0	373.1	376.2	374.2	373.1	370.0	360.8	360.8
10°	333.1	333.1	341.3	347.5	354.7	357.7	355.7	352.6	349.5	340.3	339.3
12.5°	315.7	315.7	321.9	332.1	340.3	344.4	343.4	339.3	334.2	324.9	323.9
15°	299.3	298.3	307.5	316.7	328.0	333.1	331.1	328.0	318.8	310.6	308.5
17.5°	282.9	281.9	290.1	302.4	314.7	321.9	320.8	313.7	305.5	295.2	293.2
20°	266.5	264.5	274.7	287.0	299.3	306.5	304.4	298.3	288.0	277.8	275.7
22.5°	250.1	249.1	256.3	266.5	277.8	283.9	282.9	277.8	267.5	258.3	258.3
25°	231.7	231.7	236.8	244.0	252.2	255.2	256.3	254.2	248.1	242.9	242.9
27.5°	216.3	213.2	215.3	217.3	221.4	226.5	226.5	228.6	229.6	227.6	228.6
30°	204.0	198.9	195.8	191.7	189.6	191.7	193.7	200.9	208.1	212.2	214.2
32.5°	189.6	183.5	175.3	164.0	156.8	154.8	160.9	174.3	187.6	196.8	201.9
35°	175.3	167.1	151.7	135.3	126.1	123.0	130.2	145.6	165.0	181.4	188.6
37.5°	160.9	149.7	128.1	108.7	98.4	96.4	103.5	119.9	142.5	165.0	174.3
40°	144.5	131.2	105.6	85.1	76.9	74.8	81.0	97.4	121.0	146.6	160.9
42.5°	128.1	111.7	85.1	67.7	59.5	59.5	67.7	80.0	101.5	129.2	146.6
45°	111.7	94.3	69.7	54.3	49.2	50.2	55.4	67.7	85.1	113.8	130.2
47.5°	96.4	81.0	57.4	45.1	41.0	42.0	48.2	58.4	72.8	98.4	115.8
50°	83.0	68.7	50.2	37.9	34.9	36.9	43.1	52.3	64.6	87.1	101.5
52.5°	74.8	61.5	46.1	32.8	30.8	32.8	39.0	47.2	58.4	76.9	91.2
55°	70.7	60.5	46.1	29.7	26.7	28.7	34.9	43.1	52.3	69.7	82.0
57.5°	69.7	62.5	49.2	26.7	22.6	24.6	30.8	39.0	48.2	63.6	73.8
60°	65.6	59.5	48.2	21.5	17.4	20.5	25.6	33.8	44.1	59.5	68.7
62.5°	57.4	52.3	42.0	17.4	13.3	15.4	21.5	29.7	40.0	54.3	64.6
65°	47.2	42.0	32.8	11.3	8.2	10.3	16.4	25.6	34.9	49.2	58.4
67.5°	34.9	29.7	22.6	7.2	4.1	7.2	13.3	21.5	31.8	44.1	53.3
70°	21.5	17.4	12.3	4.1	3.1	6.2	12.3	20.5	28.7	41.0	50.2
72.5°	12.3	8.2	5.1	2.1	3.1	6.2	12.3	20.5	27.7	39.0	47.2
75°	9.2	5.1	2.1	1.0	2.1	5.1	11.3	18.5	26.7	36.9	45.1
77.5°	6.2	3.1	1.0	0.0	1.0	4.1	10.3	17.4	24.6	34.9	43.1
80°	1.0	0.0	0.0	0.0	0.0	3.1	9.2	15.4	22.6	30.8	37.9
82.5°	0.0	0.0	0.0	0.0	0.0	1.0	7.2	13.3	19.5	25.6	30.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	4.1	10.3	15.4	19.5	21.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	10.3	12.3	14.4
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°	449.0	449.0	449.0	449.0	449.0	449.0	449.0	449.0	449.0	449.0	449.0
2.5°	419.3	425.4	425.4	429.5	434.6	443.9	449.0	456.2	461.3	466.4	468.5
5°	387.5	388.5	389.5	391.6	397.7	408.0	417.2	428.5	441.8	452.1	458.2
7.5°	360.8	360.8	360.8	363.9	370.0	377.2	386.5	401.8	417.2	429.5	439.8
10°	338.3	341.3	342.4	347.5	354.7	363.9	374.2	387.5	404.9	421.3	439.8
12.5°	323.9	327.0	332.1	337.2	344.4	354.7	365.9	383.4	419.3	453.1	492.0
15°	310.6	314.7	320.8	328.0	336.2	347.5	359.8	395.7	479.7	543.3	604.8
17.5°	296.2	302.4	310.6	317.8	328.0	340.3	355.7	425.4	590.4	696.0	800.6
20°	277.8	286.0	295.2	306.5	318.8	333.1	355.7	486.9	750.4	902.1	1040.4
22.5°	260.4	268.6	279.8	294.2	308.5	322.9	360.8	580.2	956.4	1148.1	1323.4
25°	246.0	256.3	267.5	279.8	296.2	312.6	373.1	711.4	1204.5	1451.5	1575.5
27.5°	232.7	245.0	256.3	266.5	280.9	299.3	400.8	886.7	1497.6	1748.8	1846.1
30°	219.4	233.7	245.0	255.2	269.6	289.1	442.8	1110.1	1823.6	2067.6	2077.8
32.5°	208.1	221.4	234.7	245.0	258.3	280.9	501.3	1371.5	2157.8	2393.5	2297.2
35°	195.8	211.2	223.5	234.7	249.1	273.7	568.9	1653.4	2495.0	2692.9	2515.5
37.5°	183.5	200.9	216.3	224.5	238.8	266.5	618.1	1947.6	2839.4	2985.0	2707.2
40°	172.2	191.7	209.1	217.3	224.5	257.3	625.3	2249.0	3189.0	3273.0	2887.6
42.5°	159.9	181.4	196.8	208.1	214.2	251.1	582.2	2503.2	3482.2	3560.1	3123.4
45°	146.6	172.2	184.5	192.7	205.0	255.2	526.9	2700.0	3817.4	3951.6	3511.9
47.5°	133.3	162.0	172.2	178.4	194.8	279.8	506.4	2831.2	4369.9	4648.7	4166.9
50°	121.0	152.7	164.0	163.0	192.7	311.6	528.9	2930.7	5200.2	5528.2	5064.9
52.5°	107.6	142.5	155.8	151.7	208.1	336.2	574.0	3009.6	5838.8	6559.4	6271.4
55°	96.4	131.2	143.5	142.5	236.8	354.7	608.9	2593.4	6103.3	7517.9	7630.6
57.5°	88.2	118.9	129.2	146.6	255.2	354.7	704.2	1841.0	6108.4	8223.1	9434.7
60°	81.0	107.6	114.8	160.9	248.1	336.2	697.0	1127.6	5629.7	8174.9	10394.2
62.5°	74.8	97.4	106.6	165.0	219.4	333.1	629.4	699.1	4801.4	7552.7	9698.2
65°	69.7	89.2	102.5	151.7	198.9	356.7	424.4	502.3	3894.2	6843.4	8899.6
67.5°	64.6	82.0	108.7	124.0	180.4	318.8	306.5	356.7	3056.8	6065.3	8166.7
70°	60.5	77.9	114.8	101.5	157.9	249.1	217.3	270.6	2340.2	5060.8	7134.5
72.5°	57.4	72.8	96.4	80.0	128.1	192.7	151.7	196.8	1529.4	3950.6	5816.2
75°	54.3	66.6	70.7	64.6	95.3	126.1	114.8	132.2	911.3	2887.6	4412.9
77.5°	53.3	62.5	57.4	52.3	64.6	74.8	87.1	89.2	444.9	1444.3	2312.6
80°	47.2	56.4	49.2	43.1	44.1	49.2	64.6	59.5	101.5	367.0	617.1
82.5°	36.9	44.1	41.0	35.9	35.9	35.9	43.1	40.0	32.8	165.0	278.8
85°	25.6	30.8	30.8	28.7	27.7	27.7	26.7	25.6	9.2	10.3	15.4
87.5°	17.4	21.5	22.6	21.5	18.5	16.4	14.4	12.3	4.1	0.0	2.1
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°	449.0	449.0	449.0	449.0	449.0	449.0	449.0	449.0	449.0	449.0
2.5°	475.6	478.7	478.7	474.6	471.5	463.3	455.1	446.9	444.9	443.9
5°	475.6	487.9	494.1	493.1	485.9	472.6	455.1	436.7	431.6	429.5
7.5°	468.5	492.0	510.5	513.6	500.2	476.7	444.9	417.2	410.0	407.0
10°	484.9	531.0	567.9	573.0	557.6	511.5	460.3	413.1	401.8	394.7
12.5°	573.0	648.9	694.0	715.5	685.8	627.3	542.3	458.2	432.6	421.3
15°	751.4	859.0	945.1	945.1	917.4	813.9	706.3	569.9	535.1	504.3
17.5°	980.0	1115.3	1191.1	1182.9	1140.9	1068.1	939.0	743.2	672.4	640.7
20°	1240.3	1321.3	1338.7	1333.6	1315.2	1273.1	1184.0	973.8	878.5	829.3
22.5°	1465.8	1444.3	1418.7	1398.2	1393.1	1405.4	1393.1	1231.1	1156.3	1069.1
25°	1618.6	1496.6	1419.7	1382.8	1400.2	1471.0	1547.9	1487.4	1427.9	1337.7
27.5°	1701.6	1490.4	1379.7	1341.8	1371.5	1472.0	1639.1	1741.6	1680.1	1637.0
30°	1746.7	1485.3	1354.1	1317.2	1362.3	1488.4	1702.6	1979.4	1981.5	1912.8
32.5°	1811.3	1518.1	1359.2	1325.4	1385.9	1537.6	1782.6	2221.3	2280.8	2243.9
35°	1884.1	1568.4	1382.8	1352.1	1426.9	1603.2	1871.8	2465.3	2589.3	2577.0
37.5°	1952.8	1624.7	1438.2	1408.4	1489.4	1659.6	1957.9	2705.2	2877.4	2920.4
40°	2024.5	1703.7	1608.3	1637.0	1682.1	1748.8	2034.8	2913.2	3194.1	3258.7
42.5°	2193.6	1977.4	2122.9	2177.2	2183.4	2046.0	2202.9	3179.8	3505.7	3582.6
45°	2570.9	2464.3	2881.5	2958.3	2918.4	2502.2	2607.8	3564.2	3941.4	3980.3
47.5°	3047.5	3096.7	3919.9	4185.4	3945.5	3040.4	3098.8	4372.9	4738.9	4724.5
50°	3603.1	3835.8	5098.7	5725.0	5151.0	3739.5	3664.6	5367.3	5811.1	5767.0
52.5°	4260.2	4694.8	6515.3	7405.1	6861.8	4525.7	4494.9	6684.5	6955.1	6814.7
55°	5087.4	5524.1	8145.2	9388.6	8615.7	5485.1	5590.7	8211.8	8264.1	7818.2
57.5°	6321.6	6605.5	10066.2	11663.2	10446.5	6789.0	7554.8	10244.5	9619.2	8774.6
60°	8562.4	7996.6	11922.6	13990.1	12394.1	8622.9	10145.1	11449.0	10070.3	8905.8
62.5°	9342.5	9177.4	13085.0	14974.2	13704.1	10128.7	10818.6	10766.3	9486.0	8409.7
65°	8160.6	8883.2	12876.9	14454.5	13536.0	9880.6	9708.4	10012.9	8827.9	7656.2
67.5°	7538.4	8192.3	12088.6	13020.4	12604.2	9039.1	8653.6	8570.6	7411.2	6478.4
70°	6911.0	7558.9	10945.7	11061.5	10867.8	7667.5	7161.1	6604.5	5539.5	4728.6
72.5°	6156.6	6513.3	9359.9	8810.5	8591.1	6022.3	5915.7	4973.6	4152.6	3456.5
75°	5369.3	5265.8	7297.5	6046.9	6210.9	4685.6	4996.2	3652.3	3042.4	2487.8
77.5°	3905.5	3828.6	4887.5	3672.8	4067.5	3069.1	2757.4	1457.6	1387.9	1197.3
80°	2179.3	2627.3	2639.6	2058.3	2567.8	2000.9	689.9	48.2	30.8	45.1
82.5°	1012.8	1129.6	1431.0	954.3	1464.8	991.2	142.5	0.0	0.0	0.0
85°	328.0	479.7	401.8	140.4	354.7	335.2	23.6	0.0	0.0	0.0
87.5°	19.5	40.0	10.3	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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