

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: P636556

Luminaire Tested: GWS-SA4B-722-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636556
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-SA4B-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: 6455.3 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

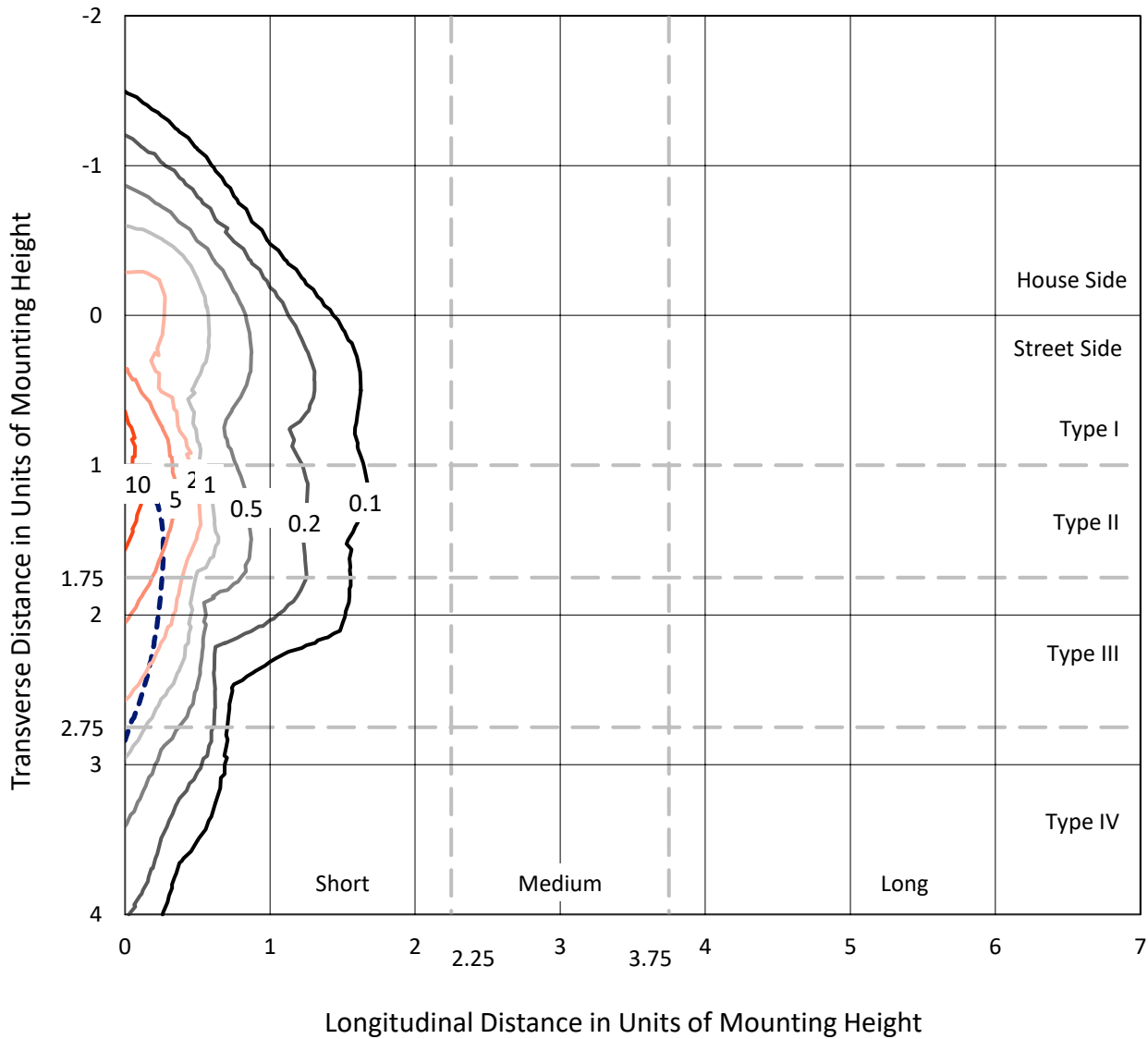
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

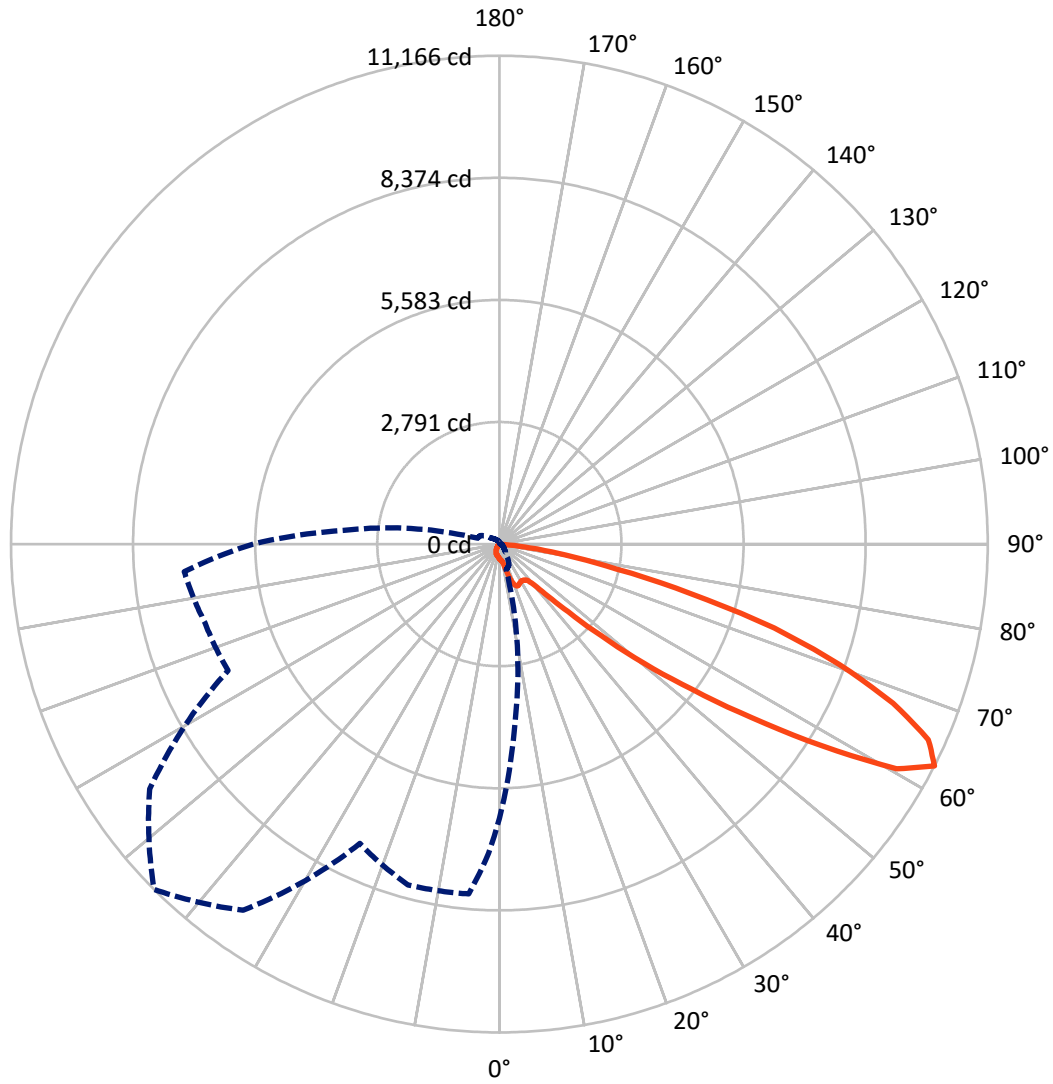
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.5 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	750.0	0.0	750.0
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	5705.3	0.0	5705.3
	% Fixture	88.4	0.0	88.4
Total	Lumens	6455.3	0.0	6455.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.9	0.4
10°-20°	99.1	1.5
20°-30°	223.9	3.5
30°-40°	385.6	6.0
40°-50°	727.5	11.3
50°-60°	1624.2	25.2
60°-70°	2172.4	33.7
70°-80°	1089.4	16.9
80°-90°	104.4	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°	6455.3	100.0
0°-180°	6455.3	100.0

Coefficient of Utilization



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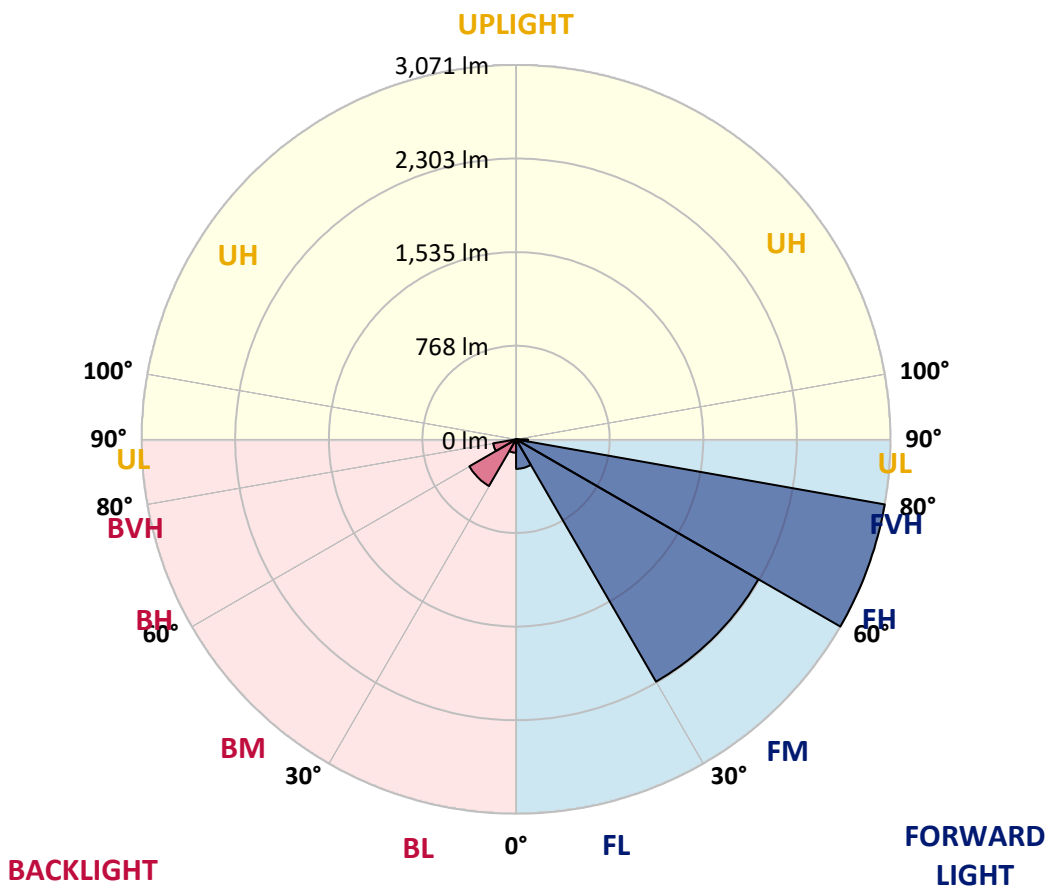
CATALOG NUMBER: GWS-SA4B-722-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	241.8	3.7			
FM (30°-60°)	2295.0	35.6			
FH (60°-80°)	3071.0	47.6			G2/5000
FVH (80°-90°)	97.5	1.5			G1/100
BL (0°-30°)	110.1	1.7	B1/500		
BM (30°-60°)	442.3	6.9	B1/1000		
BH (60°-80°)	190.7	3.0	B1/500		G1/500
BVH (80°-90°)	6.9	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°	334.8	334.8	334.8	334.8	334.8	334.8	334.8	334.8	334.8	334.8	334.8
2.5°	331.0	330.2	328.7	324.1	320.3	318.0	313.4	313.4	312.6	311.1	308.0
5°	320.3	317.2	314.1	305.7	296.6	291.2	285.1	284.3	284.3	282.8	282.0
7.5°	303.4	300.4	296.6	282.8	274.4	269.0	263.7	262.9	260.6	260.6	260.6
10°	294.3	289.7	283.6	268.3	259.9	255.3	251.5	249.2	247.6	245.4	244.6
12.5°	314.1	305.7	292.7	265.2	253.8	247.6	243.1	241.5	236.9	233.9	231.6
15°	376.1	355.4	329.4	272.1	251.5	242.3	236.2	233.1	229.3	224.0	220.1
17.5°	477.7	447.9	404.3	294.3	249.2	237.7	230.1	224.7	219.4	213.3	208.7
20°	618.4	574.0	522.0	334.8	249.2	232.4	223.2	216.3	208.7	201.8	196.4
22.5°	797.2	752.9	664.2	403.6	252.2	225.5	214.8	205.6	196.4	190.3	184.2
25°	997.5	934.8	852.2	486.9	260.6	216.3	204.8	195.7	187.3	179.6	172.7
27.5°	1220.7	1152.6	1042.6	605.4	279.0	207.1	194.1	185.7	178.1	170.4	161.3
30°	1426.3	1385.7	1273.4	747.5	308.8	201.0	185.7	178.1	170.4	160.5	152.1
32.5°	1673.1	1601.3	1508.8	909.6	348.5	194.9	178.9	168.2	162.0	152.9	143.7
35°	1921.6	1860.4	1738.9	1109.1	392.9	188.8	170.4	160.5	155.2	144.5	134.5
37.5°	2177.6	2163.8	2043.8	1330.0	436.4	181.9	160.5	154.4	149.0	136.8	125.4
40°	2429.8	2404.6	2293.8	1582.2	463.2	174.3	152.1	148.3	142.2	128.4	115.4
42.5°	2671.4	2652.3	2544.5	1823.7	459.4	167.4	143.7	139.1	134.5	120.8	104.7
45°	2967.9	2936.6	2800.5	2002.6	420.4	175.0	135.3	127.6	126.9	113.9	94.0
47.5°	3522.8	3419.7	3188.8	2140.2	381.4	194.9	126.1	116.9	122.3	107.0	83.3
50°	4300.2	4178.6	3844.6	2247.2	380.6	220.9	124.6	107.0	118.5	101.7	74.1
52.5°	5081.3	4867.3	4461.5	2304.5	408.9	240.0	138.3	97.1	113.9	96.3	67.3
55°	5829.6	5385.5	4719.8	2114.9	431.1	260.6	163.6	91.7	105.5	90.2	63.4
57.5°	6542.8	5802.1	4832.2	1673.1	505.2	269.0	178.9	94.0	93.2	82.5	60.4
60°	6640.6	5782.2	4605.2	973.0	557.2	254.5	172.7	104.7	81.8	73.4	55.0
62.5°	6270.6	5397.8	4087.7	606.9	517.5	249.2	153.6	119.2	74.1	65.0	48.2
65°	5708.9	4794.7	3408.2	391.3	392.1	276.7	134.5	116.9	69.6	57.3	41.3
67.5°	4830.6	4012.8	2685.1	262.2	221.7	236.2	117.7	80.3	68.0	48.9	32.1
70°	3525.9	2856.3	1748.0	175.0	132.2	188.8	98.6	57.3	64.2	40.5	22.9
72.5°	2577.4	1919.3	976.1	114.7	74.9	110.1	72.6	41.3	49.7	29.8	16.1
75°	1855.1	1320.8	557.2	73.4	49.7	60.4	47.4	28.3	32.1	23.7	14.5
77.5°	892.7	643.6	253.0	40.5	33.6	30.6	25.2	17.6	19.9	21.4	13.0
80°	33.6	25.2	19.1	19.9	21.4	13.8	11.5	9.2	11.5	14.5	6.9
82.5°	0.0	0.0	0.0	2.3	3.1	3.8	4.6	3.8	4.6	5.4	0.8
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°	334.8	334.8	334.8	334.8	334.8	334.8	334.8	334.8	334.8	334.8	334.8
2.5°	310.3	308.8	310.3	311.9	313.4	314.9	312.6	314.1	315.7	311.9	313.4
5°	285.9	285.1	289.7	292.0	295.0	296.6	295.0	295.0	294.3	289.7	289.7
7.5°	264.5	265.2	269.0	274.4	278.2	280.5	279.0	278.2	275.9	269.0	269.0
10°	248.4	248.4	254.5	259.1	264.5	266.8	265.2	262.9	260.6	253.8	253.0
12.5°	235.4	235.4	240.0	247.6	253.8	256.8	256.1	253.0	249.2	242.3	241.5
15°	223.2	222.4	229.3	236.2	244.6	248.4	246.9	244.6	237.7	231.6	230.1
17.5°	211.0	210.2	216.3	225.5	234.7	240.0	239.2	233.9	227.8	220.1	218.6
20°	198.7	197.2	204.8	214.0	223.2	228.5	227.0	222.4	214.8	207.1	205.6
22.5°	186.5	185.7	191.1	198.7	207.1	211.7	211.0	207.1	199.5	192.6	192.6
25°	172.7	172.7	176.6	181.9	188.0	190.3	191.1	189.6	185.0	181.1	181.1
27.5°	161.3	159.0	160.5	162.0	165.1	168.9	168.9	170.4	171.2	169.7	170.4
30°	152.1	148.3	146.0	142.9	141.4	142.9	144.5	149.8	155.2	158.2	159.7
32.5°	141.4	136.8	130.7	122.3	116.9	115.4	120.0	129.9	139.9	146.8	150.6
35°	130.7	124.6	113.1	100.9	94.0	91.7	97.1	108.5	123.1	135.3	140.6
37.5°	120.0	111.6	95.5	81.0	73.4	71.8	77.2	89.4	106.2	123.1	129.9
40°	107.8	97.8	78.7	63.4	57.3	55.8	60.4	72.6	90.2	109.3	120.0
42.5°	95.5	83.3	63.4	50.4	44.3	44.3	50.4	59.6	75.7	96.3	109.3
45°	83.3	70.3	52.0	40.5	36.7	37.5	41.3	50.4	63.4	84.8	97.1
47.5°	71.8	60.4	42.8	33.6	30.6	31.3	35.9	43.6	54.3	73.4	86.4
50°	61.9	51.2	37.5	28.3	26.0	27.5	32.1	39.0	48.2	65.0	75.7
52.5°	55.8	45.9	34.4	24.5	22.9	24.5	29.0	35.2	43.6	57.3	68.0
55°	52.7	45.1	34.4	22.2	19.9	21.4	26.0	32.1	39.0	52.0	61.1
57.5°	52.0	46.6	36.7	19.9	16.8	18.3	22.9	29.0	35.9	47.4	55.0
60°	48.9	44.3	35.9	16.1	13.0	15.3	19.1	25.2	32.9	44.3	51.2
62.5°	42.8	39.0	31.3	13.0	9.9	11.5	16.1	22.2	29.8	40.5	48.2
65°	35.2	31.3	24.5	8.4	6.1	7.6	12.2	19.1	26.0	36.7	43.6
67.5°	26.0	22.2	16.8	5.4	3.1	5.4	9.9	16.1	23.7	32.9	39.7
70°	16.1	13.0	9.2	3.1	2.3	4.6	9.2	15.3	21.4	30.6	37.5
72.5°	9.2	6.1	3.8	1.5	2.3	4.6	9.2	15.3	20.6	29.0	35.2
75°	6.9	3.8	1.5	0.8	1.5	3.8	8.4	13.8	19.9	27.5	33.6
77.5°	4.6	2.3	0.8	0.0	0.8	3.1	7.6	13.0	18.3	26.0	32.1
80°	0.8	0.0	0.0	0.0	0.0	2.3	6.9	11.5	16.8	22.9	28.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.8	5.4	9.9	14.5	19.1	22.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	3.1	7.6	11.5	14.5	16.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	7.6	9.2	10.7
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	334.8	334.8	334.8	334.8	334.8	334.8	334.8	334.8	334.8	334.8	334.8
2.5°	312.6	317.2	317.2	320.3	324.1	331.0	334.8	340.1	344.0	347.8	349.3
5°	288.9	289.7	290.4	292.0	296.6	304.2	311.1	319.5	329.4	337.1	341.7
7.5°	269.0	269.0	269.0	271.3	275.9	281.3	288.2	299.6	311.1	320.3	327.9
10°	252.2	254.5	255.3	259.1	264.5	271.3	279.0	288.9	301.9	314.1	327.9
12.5°	241.5	243.8	247.6	251.5	256.8	264.5	272.9	285.9	312.6	337.8	366.9
15°	231.6	234.7	239.2	244.6	250.7	259.1	268.3	295.0	357.7	405.1	451.0
17.5°	220.9	225.5	231.6	236.9	244.6	253.8	265.2	317.2	440.3	519.0	596.9
20°	207.1	213.3	220.1	228.5	237.7	248.4	265.2	363.1	559.5	672.6	775.8
22.5°	194.1	200.3	208.7	219.4	230.1	240.8	269.0	432.6	713.1	856.1	986.8
25°	183.4	191.1	199.5	208.7	220.9	233.1	278.2	530.5	898.1	1082.3	1174.8
27.5°	173.5	182.7	191.1	198.7	209.4	223.2	298.9	661.2	1116.7	1304.0	1376.6
30°	163.6	174.3	182.7	190.3	201.0	215.5	330.2	827.8	1359.8	1541.7	1549.3
32.5°	155.2	165.1	175.0	182.7	192.6	209.4	373.8	1022.7	1608.9	1784.7	1712.9
35°	146.0	157.5	166.6	175.0	185.7	204.1	424.2	1232.9	1860.4	2007.9	1875.7
37.5°	136.8	149.8	161.3	167.4	178.1	198.7	460.9	1452.2	2117.2	2225.8	2018.6
40°	128.4	142.9	155.9	162.0	167.4	191.8	466.2	1677.0	2377.9	2440.5	2153.1
42.5°	119.2	135.3	146.8	155.2	159.7	187.3	434.1	1866.5	2596.5	2654.6	2328.9
45°	109.3	128.4	137.6	143.7	152.9	190.3	392.9	2013.3	2846.4	2946.5	2618.6
47.5°	99.4	120.8	128.4	133.0	145.2	208.7	377.6	2111.1	3258.4	3466.3	3107.0
50°	90.2	113.9	122.3	121.5	143.7	232.4	394.4	2185.2	3877.5	4122.1	3776.6
52.5°	80.3	106.2	116.2	113.1	155.2	250.7	428.0	2244.1	4353.7	4891.0	4676.2
55°	71.8	97.8	107.0	106.2	176.6	264.5	454.0	1933.8	4550.9	5605.7	5689.8
57.5°	65.7	88.7	96.3	109.3	190.3	264.5	525.1	1372.8	4554.7	6131.5	7035.0
60°	60.4	80.3	85.6	120.0	185.0	250.7	519.8	840.8	4197.8	6095.6	7750.4
62.5°	55.8	72.6	79.5	123.1	163.6	248.4	469.3	521.3	3580.2	5631.7	7231.4
65°	52.0	66.5	76.4	113.1	148.3	266.0	316.4	374.5	2903.7	5102.7	6636.0
67.5°	48.2	61.1	81.0	92.5	134.5	237.7	228.5	266.0	2279.3	4522.6	6089.5
70°	45.1	58.1	85.6	75.7	117.7	185.7	162.0	201.8	1745.0	3773.5	5319.8
72.5°	42.8	54.3	71.8	59.6	95.5	143.7	113.1	146.8	1140.4	2945.8	4336.9
75°	40.5	49.7	52.7	48.2	71.1	94.0	85.6	98.6	679.5	2153.1	3290.5
77.5°	39.7	46.6	42.8	39.0	48.2	55.8	65.0	66.5	331.7	1077.0	1724.4
80°	35.2	42.0	36.7	32.1	32.9	36.7	48.2	44.3	75.7	273.6	460.1
82.5°	27.5	32.9	30.6	26.8	26.8	26.8	32.1	29.8	24.5	123.1	207.9
85°	19.1	22.9	22.9	21.4	20.6	20.6	19.9	19.1	6.9	7.6	11.5
87.5°	13.0	16.1	16.8	16.1	13.8	12.2	10.7	9.2	3.1	0.0	1.5
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°	334.8	334.8	334.8	334.8	334.8	334.8	334.8	334.8	334.8	334.8
2.5°	354.7	356.9	356.9	353.9	351.6	345.5	339.4	333.3	331.7	331.0
5°	354.7	363.8	368.4	367.6	362.3	352.4	339.4	325.6	321.8	320.3
7.5°	349.3	366.9	380.6	382.9	373.0	355.4	331.7	311.1	305.7	303.4
10°	361.5	395.9	423.4	427.3	415.8	381.4	343.2	308.0	299.6	294.3
12.5°	427.3	483.8	517.5	533.5	511.3	467.8	404.3	341.7	322.6	314.1
15°	560.3	640.5	704.7	704.7	684.1	606.9	526.6	425.0	399.0	376.1
17.5°	730.7	831.6	888.2	882.0	850.7	796.4	700.1	554.1	501.4	477.7
20°	924.9	985.2	998.2	994.4	980.6	949.3	882.8	726.1	655.0	618.4
22.5°	1093.0	1077.0	1057.8	1042.6	1038.7	1047.9	1038.7	918.0	862.2	797.2
25°	1206.9	1115.9	1058.6	1031.1	1044.1	1096.8	1154.2	1109.1	1064.7	997.5
27.5°	1268.8	1111.4	1028.8	1000.5	1022.7	1097.6	1222.2	1298.6	1252.8	1220.7
30°	1302.4	1107.5	1009.7	982.2	1015.8	1109.8	1269.6	1475.9	1477.5	1426.3
32.5°	1350.6	1132.0	1013.5	988.3	1033.4	1146.5	1329.2	1656.3	1700.7	1673.1
35°	1404.9	1169.4	1031.1	1008.2	1064.0	1195.4	1395.7	1838.2	1930.7	1921.6
37.5°	1456.1	1211.5	1072.4	1050.2	1110.6	1237.5	1459.9	2017.1	2145.5	2177.6
40°	1509.6	1270.3	1199.3	1220.7	1254.3	1304.0	1517.2	2172.3	2381.7	2429.8
42.5°	1635.7	1474.4	1582.9	1623.5	1628.0	1525.6	1642.6	2371.0	2614.0	2671.4
45°	1917.0	1837.5	2148.6	2205.9	2176.1	1865.8	1944.5	2657.6	2938.9	2967.9
47.5°	2272.4	2309.1	2922.8	3120.8	2941.9	2267.0	2310.6	3260.7	3533.5	3522.8
50°	2686.7	2860.2	3801.8	4268.8	3840.8	2788.3	2732.5	4002.1	4333.0	4300.2
52.5°	3176.6	3500.7	4858.1	5521.6	5116.5	3374.6	3351.6	4984.3	5186.1	5081.3
55°	3793.4	4119.0	6073.4	7000.6	6424.3	4090.0	4168.7	6123.1	6162.1	5829.6
57.5°	4713.7	4925.4	7505.8	8696.7	7789.4	5062.2	5633.2	7638.8	7172.6	6542.8
60°	6384.5	5962.6	8890.0	10431.7	9241.6	6429.6	7564.7	8536.9	7508.9	6640.6
62.5°	6966.2	6843.1	9756.8	11165.5	10218.5	7552.4	8066.8	8027.9	7073.2	6270.6
65°	6084.9	6623.8	9601.6	10778.0	10093.1	7367.5	7239.1	7466.1	6582.5	5708.9
67.5°	5621.0	6108.6	9013.9	9708.7	9398.3	6740.0	6452.6	6390.7	5526.2	4830.6
70°	5153.2	5636.2	8161.6	8248.0	8103.5	5717.3	5339.7	4924.6	4130.5	3525.9
72.5°	4590.6	4856.6	6979.2	6569.5	6405.9	4490.5	4411.0	3708.6	3096.3	2577.4
75°	4003.6	3926.4	5441.3	4508.8	4631.1	3493.8	3725.4	2723.3	2268.6	1855.1
77.5°	2912.1	2854.8	3644.4	2738.6	3032.9	2288.4	2056.1	1086.9	1034.9	892.7
80°	1625.0	1959.0	1968.2	1534.8	1914.7	1492.0	514.4	35.9	22.9	33.6
82.5°	755.2	842.3	1067.0	711.6	1092.2	739.1	106.2	0.0	0.0	0.0
85°	244.6	357.7	299.6	104.7	264.5	249.9	17.6	0.0	0.0	0.0
87.5°	14.5	29.8	7.6	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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