

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: P631441

Luminaire Tested: GWS-SA1F-760-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631441
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-SA1F-760-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5146.4 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

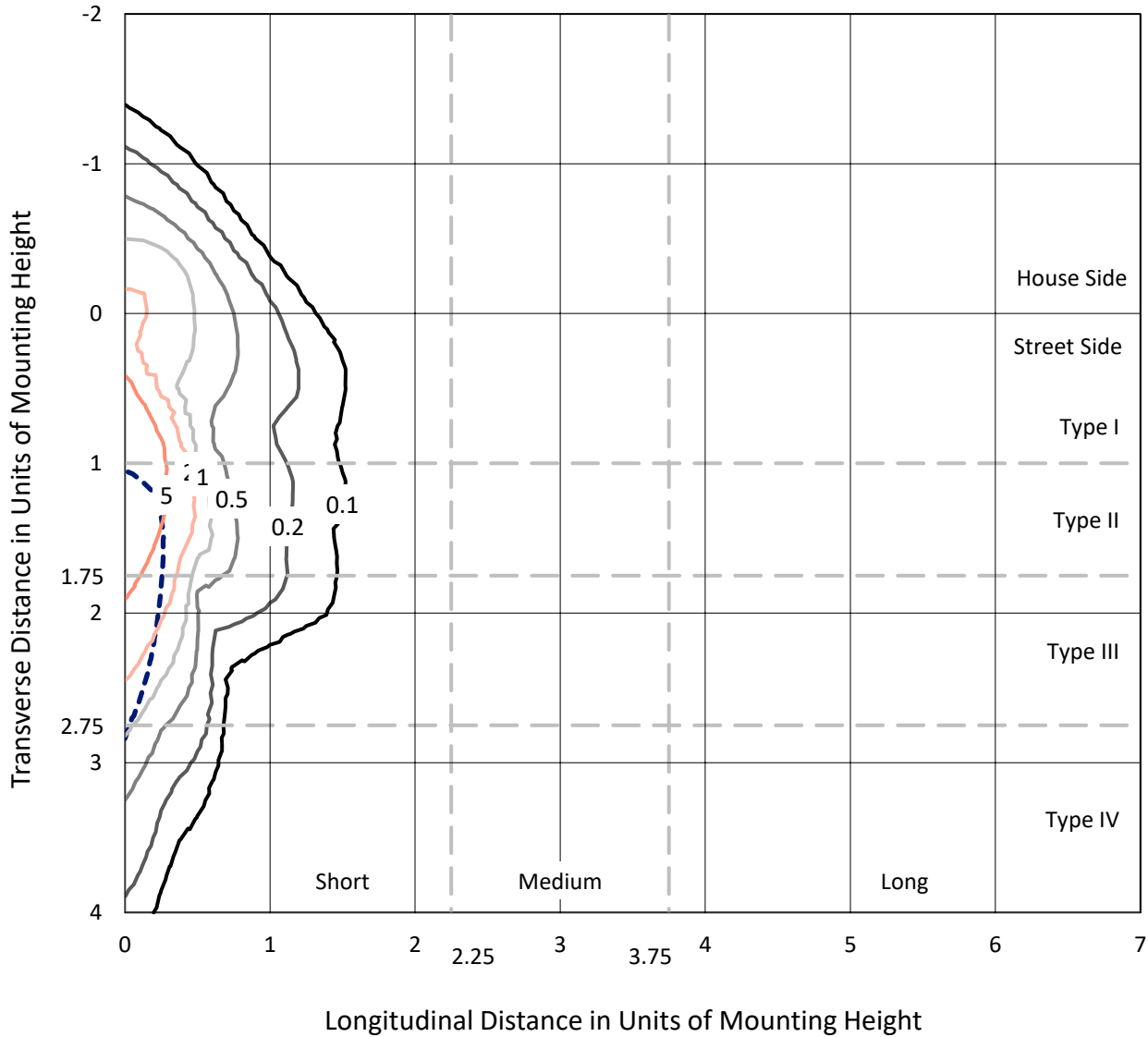
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

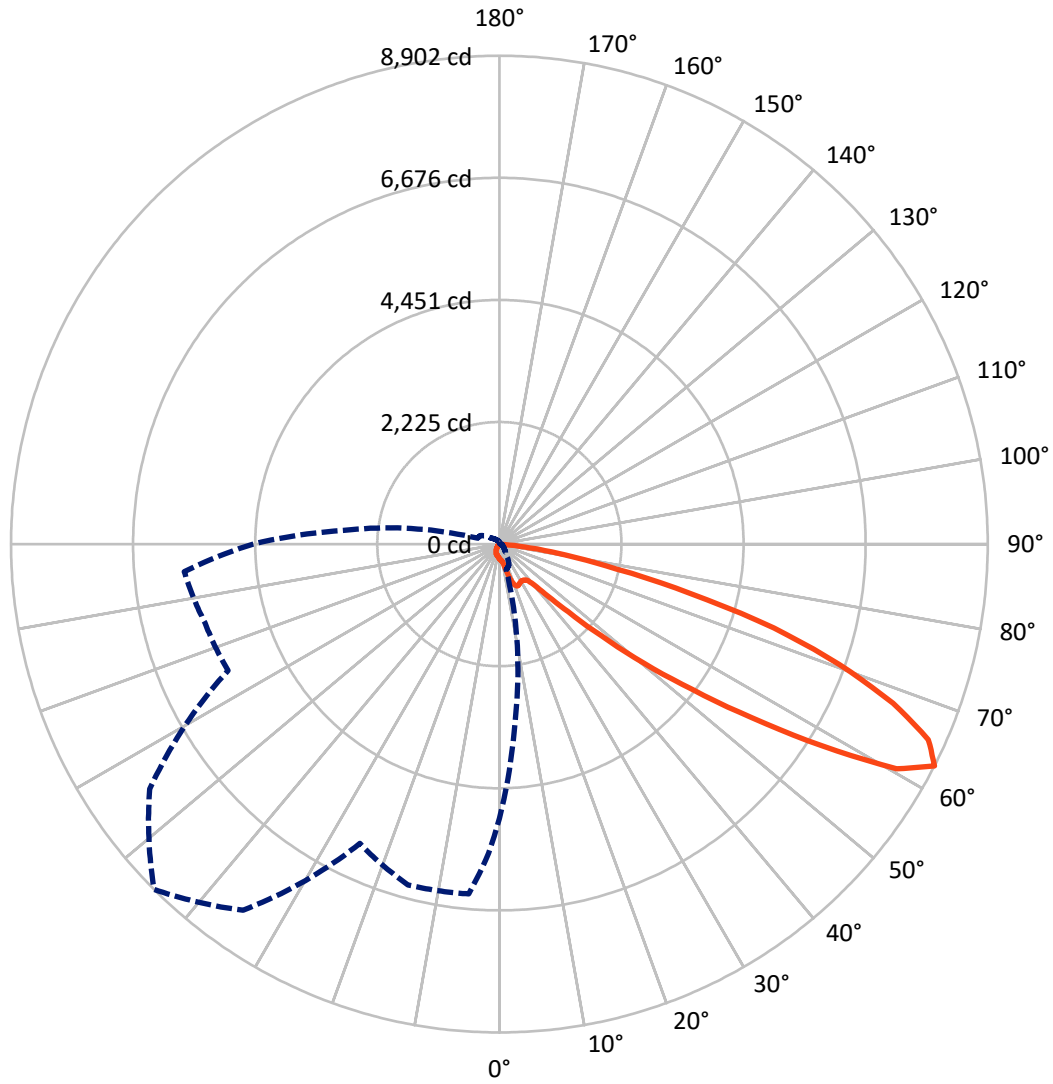
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.2 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	597.9	0.0	597.9
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	4548.4	0.0	4548.4
	% Fixture	88.4	0.0	88.4
Total	Lumens	5146.4	0.0	5146.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.0	0.4
10°-20°	79.0	1.5
20°-30°	178.5	3.5
30°-40°	307.4	6.0
40°-50°	580.0	11.3
50°-60°	1294.9	25.2
60°-70°	1731.9	33.7
70°-80°	868.5	16.9
80°-90°	83.2	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°	5146.4	100.0
0°-180°	5146.4	100.0

Coefficient of Utilization



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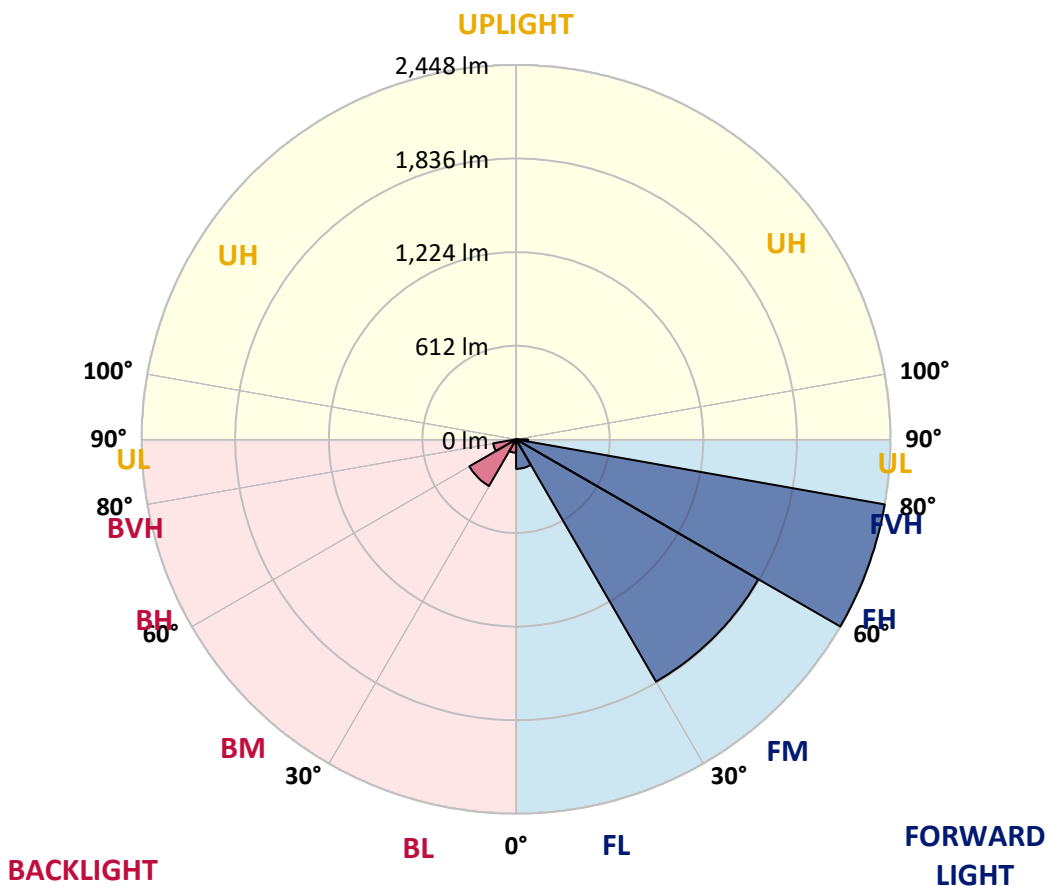
CATALOG NUMBER: GWS-SA1F-760-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	192.7	3.7			
FM (30°-60°)	1829.7	35.6			
FH (60°-80°)	2448.3	47.6			G2/5000
FVH (80°-90°)	77.7	1.5			G1/100
BL (0°-30°)	87.8	1.7	B0/110		
BM (30°-60°)	352.6	6.9	B1/1000		
BH (60°-80°)	152.1	3.0	B1/500		G1/500
BVH (80°-90°)	5.5	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°	266.9	266.9	266.9	266.9	266.9	266.9	266.9	266.9	266.9	266.9	266.9
2.5°	263.9	263.2	262.0	258.4	255.3	253.5	249.8	249.8	249.2	248.0	245.6
5°	255.3	252.9	250.4	243.7	236.4	232.2	227.3	226.7	226.7	225.5	224.9
7.5°	241.9	239.5	236.4	225.5	218.8	214.5	210.2	209.6	207.8	207.8	207.8
10°	234.6	230.9	226.1	213.9	207.2	203.5	200.5	198.7	197.4	195.6	195.0
12.5°	250.4	243.7	233.4	211.4	202.3	197.4	193.8	192.6	188.9	186.5	184.6
15°	299.8	283.4	262.6	216.9	200.5	193.2	188.3	185.9	182.8	178.5	175.5
17.5°	380.9	357.1	322.4	234.6	198.7	189.5	183.4	179.2	174.9	170.0	166.4
20°	493.0	457.6	416.2	266.9	198.7	185.2	177.9	172.4	166.4	160.9	156.6
22.5°	635.6	600.2	529.5	321.7	201.1	179.8	171.2	163.9	156.6	151.7	146.9
25°	795.2	745.2	679.4	388.2	207.8	172.4	163.3	156.0	149.3	143.2	137.7
27.5°	973.1	918.9	831.2	482.6	222.4	165.1	154.8	148.1	142.0	135.9	128.6
30°	1137.1	1104.8	1015.2	596.0	246.2	160.3	148.1	142.0	135.9	128.0	121.3
32.5°	1333.9	1276.6	1202.9	725.1	277.9	155.4	142.6	134.1	129.2	121.9	114.6
35°	1531.9	1483.2	1386.3	884.2	313.2	150.5	135.9	128.0	123.7	115.2	107.2
37.5°	1736.1	1725.1	1629.4	1060.3	347.9	145.0	128.0	123.1	118.8	109.1	99.9
40°	1937.2	1917.0	1828.7	1261.4	369.3	138.9	121.3	118.2	113.3	102.4	92.0
42.5°	2129.7	2114.5	2028.6	1453.9	366.2	133.4	114.6	110.9	107.2	96.3	83.5
45°	2366.1	2341.2	2232.7	1596.5	335.1	139.5	107.9	101.8	101.2	90.8	75.0
47.5°	2808.5	2726.3	2542.3	1706.2	304.1	155.4	100.5	93.2	97.5	85.3	66.4
50°	3428.3	3331.4	3065.1	1791.5	303.5	176.1	99.3	85.3	94.5	81.0	59.1
52.5°	4051.0	3880.4	3556.8	1837.2	326.0	191.3	110.3	77.4	90.8	76.8	53.6
55°	4647.6	4293.6	3762.8	1686.1	343.7	207.8	130.4	73.1	84.1	71.9	50.6
57.5°	5216.1	4625.7	3852.4	1333.9	402.8	214.5	142.6	75.0	74.3	65.8	48.1
60°	5294.1	4609.8	3671.4	775.7	444.2	202.9	137.7	83.5	65.2	58.5	43.9
62.5°	4999.2	4303.3	3258.9	483.8	412.5	198.7	122.5	95.1	59.1	51.8	38.4
65°	4551.3	3822.5	2717.1	312.0	312.6	220.6	107.2	93.2	55.5	45.7	32.9
67.5°	3851.2	3199.1	2140.7	209.0	176.7	188.3	93.8	64.0	54.2	39.0	25.6
70°	2811.0	2277.2	1393.6	139.5	105.4	150.5	78.6	45.7	51.2	32.3	18.3
72.5°	2054.8	1530.1	778.2	91.4	59.7	87.7	57.9	32.9	39.6	23.8	12.8
75°	1478.9	1053.0	444.2	58.5	39.6	48.1	37.8	22.5	25.6	18.9	11.6
77.5°	711.7	513.1	201.7	32.3	26.8	24.4	20.1	14.0	15.8	17.1	10.4
80°	26.8	20.1	15.2	15.8	17.1	11.0	9.1	7.3	9.1	11.6	5.5
82.5°	0.0	0.0	0.0	1.8	2.4	3.0	3.7	3.0	3.7	4.3	0.6
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°	266.9	266.9	266.9	266.9	266.9	266.9	266.9	266.9	266.9	266.9	266.9
2.5°	247.4	246.2	247.4	248.6	249.8	251.1	249.2	250.4	251.7	248.6	249.8
5°	227.9	227.3	230.9	232.8	235.2	236.4	235.2	235.2	234.6	230.9	230.9
7.5°	210.8	211.4	214.5	218.8	221.8	223.6	222.4	221.8	220.0	214.5	214.5
10°	198.0	198.0	202.9	206.6	210.8	212.7	211.4	209.6	207.8	202.3	201.7
12.5°	187.7	187.7	191.3	197.4	202.3	204.7	204.1	201.7	198.7	193.2	192.6
15°	177.9	177.3	182.8	188.3	195.0	198.0	196.8	195.0	189.5	184.6	183.4
17.5°	168.2	167.6	172.4	179.8	187.1	191.3	190.7	186.5	181.6	175.5	174.3
20°	158.4	157.2	163.3	170.6	177.9	182.2	181.0	177.3	171.2	165.1	163.9
22.5°	148.7	148.1	152.3	158.4	165.1	168.8	168.2	165.1	159.0	153.6	153.6
25°	137.7	137.7	140.8	145.0	149.9	151.7	152.3	151.1	147.5	144.4	144.4
27.5°	128.6	126.7	128.0	129.2	131.6	134.7	134.7	135.9	136.5	135.3	135.9
30°	121.3	118.2	116.4	114.0	112.7	114.0	115.2	119.4	123.7	126.1	127.4
32.5°	112.7	109.1	104.2	97.5	93.2	92.0	95.7	103.6	111.5	117.0	120.0
35°	104.2	99.3	90.2	80.4	75.0	73.1	77.4	86.5	98.1	107.9	112.1
37.5°	95.7	89.0	76.2	64.6	58.5	57.3	61.5	71.3	84.7	98.1	103.6
40°	85.9	78.0	62.8	50.6	45.7	44.5	48.1	57.9	71.9	87.1	95.7
42.5°	76.2	66.4	50.6	40.2	35.3	35.3	40.2	47.5	60.3	76.8	87.1
45°	66.4	56.1	41.4	32.3	29.2	29.9	32.9	40.2	50.6	67.6	77.4
47.5°	57.3	48.1	34.1	26.8	24.4	25.0	28.6	34.7	43.3	58.5	68.9
50°	49.4	40.8	29.9	22.5	20.7	21.9	25.6	31.1	38.4	51.8	60.3
52.5°	44.5	36.6	27.4	19.5	18.3	19.5	23.2	28.0	34.7	45.7	54.2
55°	42.0	36.0	27.4	17.7	15.8	17.1	20.7	25.6	31.1	41.4	48.7
57.5°	41.4	37.2	29.2	15.8	13.4	14.6	18.3	23.2	28.6	37.8	43.9
60°	39.0	35.3	28.6	12.8	10.4	12.2	15.2	20.1	26.2	35.3	40.8
62.5°	34.1	31.1	25.0	10.4	7.9	9.1	12.8	17.7	23.8	32.3	38.4
65°	28.0	25.0	19.5	6.7	4.9	6.1	9.7	15.2	20.7	29.2	34.7
67.5°	20.7	17.7	13.4	4.3	2.4	4.3	7.9	12.8	18.9	26.2	31.7
70°	12.8	10.4	7.3	2.4	1.8	3.7	7.3	12.2	17.1	24.4	29.9
72.5°	7.3	4.9	3.0	1.2	1.8	3.7	7.3	12.2	16.5	23.2	28.0
75°	5.5	3.0	1.2	0.6	1.2	3.0	6.7	11.0	15.8	21.9	26.8
77.5°	3.7	1.8	0.6	0.0	0.6	2.4	6.1	10.4	14.6	20.7	25.6
80°	0.6	0.0	0.0	0.0	0.0	1.8	5.5	9.1	13.4	18.3	22.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.6	4.3	7.9	11.6	15.2	18.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	6.1	9.1	11.6	12.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1	7.3	8.5
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	266.9	266.9	266.9	266.9	266.9	266.9	266.9	266.9	266.9	266.9	266.9
2.5°	249.2	252.9	252.9	255.3	258.4	263.9	266.9	271.2	274.2	277.3	278.5
5°	230.3	230.9	231.6	232.8	236.4	242.5	248.0	254.7	262.6	268.7	272.4
7.5°	214.5	214.5	214.5	216.3	220.0	224.2	229.7	238.9	248.0	255.3	261.4
10°	201.1	202.9	203.5	206.6	210.8	216.3	222.4	230.3	240.7	250.4	261.4
12.5°	192.6	194.4	197.4	200.5	204.7	210.8	217.5	227.9	249.2	269.3	292.5
15°	184.6	187.1	190.7	195.0	199.9	206.6	213.9	235.2	285.2	323.0	359.5
17.5°	176.1	179.8	184.6	188.9	195.0	202.3	211.4	252.9	351.0	413.8	475.9
20°	165.1	170.0	175.5	182.2	189.5	198.0	211.4	289.4	446.1	536.2	618.5
22.5°	154.8	159.7	166.4	174.9	183.4	191.9	214.5	344.9	568.5	682.5	786.7
25°	146.2	152.3	159.0	166.4	176.1	185.9	221.8	422.9	716.0	862.9	936.6
27.5°	138.3	145.6	152.3	158.4	167.0	177.9	238.3	527.1	890.3	1039.6	1097.5
30°	130.4	138.9	145.6	151.7	160.3	171.8	263.2	659.9	1084.1	1229.1	1235.2
32.5°	123.7	131.6	139.5	145.6	153.6	167.0	298.0	815.3	1282.7	1422.9	1365.6
35°	116.4	125.5	132.8	139.5	148.1	162.7	338.2	982.9	1483.2	1600.8	1495.4
37.5°	109.1	119.4	128.6	133.4	142.0	158.4	367.4	1157.8	1687.9	1774.5	1609.3
40°	102.4	114.0	124.3	129.2	133.4	152.9	371.7	1336.9	1895.7	1945.7	1716.6
42.5°	95.1	107.9	117.0	123.7	127.4	149.3	346.1	1488.1	2070.0	2116.3	1856.7
45°	87.1	102.4	109.7	114.6	121.9	151.7	313.2	1605.1	2269.3	2349.1	2087.7
47.5°	79.2	96.3	102.4	106.0	115.8	166.4	301.0	1683.1	2597.7	2763.4	2477.0
50°	71.9	90.8	97.5	96.9	114.6	185.2	314.4	1742.2	3091.3	3286.3	3010.8
52.5°	64.0	84.7	92.6	90.2	123.7	199.9	341.2	1789.1	3470.9	3899.3	3728.1
55°	57.3	78.0	85.3	84.7	140.8	210.8	362.0	1541.7	3628.1	4469.0	4536.1
57.5°	52.4	70.7	76.8	87.1	151.7	210.8	418.6	1094.4	3631.2	4888.3	5608.5
60°	48.1	64.0	68.2	95.7	147.5	199.9	414.4	670.3	3346.6	4859.6	6178.9
62.5°	44.5	57.9	63.4	98.1	130.4	198.0	374.1	415.6	2854.2	4489.8	5765.2
65°	41.4	53.0	60.9	90.2	118.2	212.1	252.3	298.6	2315.0	4068.1	5290.5
67.5°	38.4	48.7	64.6	73.7	107.2	189.5	182.2	212.1	1817.1	3605.6	4854.8
70°	36.0	46.3	68.2	60.3	93.8	148.1	129.2	160.9	1391.2	3008.4	4241.1
72.5°	34.1	43.3	57.3	47.5	76.2	114.6	90.2	117.0	909.2	2348.5	3457.5
75°	32.3	39.6	42.0	38.4	56.7	75.0	68.2	78.6	541.7	1716.6	2623.3
77.5°	31.7	37.2	34.1	31.1	38.4	44.5	51.8	53.0	264.5	858.6	1374.7
80°	28.0	33.5	29.2	25.6	26.2	29.2	38.4	35.3	60.3	218.2	366.8
82.5°	21.9	26.2	24.4	21.3	21.3	21.3	25.6	23.8	19.5	98.1	165.7
85°	15.2	18.3	18.3	17.1	16.5	16.5	15.8	15.2	5.5	6.1	9.1
87.5°	10.4	12.8	13.4	12.8	11.0	9.7	8.5	7.3	2.4	0.0	1.2
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):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	266.9	266.9	266.9	266.9	266.9	266.9	266.9	266.9	266.9	266.9
2.5°	282.7	284.6	284.6	282.1	280.3	275.4	270.6	265.7	264.5	263.9
5°	282.7	290.1	293.7	293.1	288.8	280.9	270.6	259.6	256.5	255.3
7.5°	278.5	292.5	303.5	305.3	297.4	283.4	264.5	248.0	243.7	241.9
10°	288.2	315.6	337.6	340.6	331.5	304.1	273.6	245.6	238.9	234.6
12.5°	340.6	385.7	412.5	425.3	407.7	372.9	322.4	272.4	257.1	250.4
15°	446.7	510.6	561.8	561.8	545.4	483.8	419.8	338.8	318.1	299.8
17.5°	582.5	663.0	708.1	703.2	678.2	635.0	558.2	441.8	399.7	380.9
20°	737.3	785.5	795.8	792.8	781.8	756.8	703.8	578.9	522.2	493.0
22.5°	871.4	858.6	843.4	831.2	828.1	835.4	828.1	731.8	687.4	635.6
25°	962.2	889.7	844.0	822.0	832.4	874.4	920.1	884.2	848.8	795.2
27.5°	1011.5	886.0	820.2	797.7	815.3	875.0	974.4	1035.3	998.7	973.1
30°	1038.3	883.0	805.0	783.0	809.8	884.8	1012.1	1176.7	1177.9	1137.1
32.5°	1076.7	902.5	808.0	787.9	823.9	914.0	1059.7	1320.5	1355.8	1333.9
35°	1120.0	932.3	822.0	803.7	848.2	953.0	1112.7	1465.5	1539.2	1531.9
37.5°	1160.8	965.8	854.9	837.3	885.4	986.6	1163.9	1608.1	1710.5	1736.1
40°	1203.5	1012.8	956.1	973.1	1000.0	1039.6	1209.6	1731.8	1898.8	1937.2
42.5°	1304.0	1175.5	1262.0	1294.3	1297.9	1216.3	1309.5	1890.2	2084.0	2129.7
45°	1528.3	1464.9	1712.9	1758.6	1734.8	1487.4	1550.2	2118.7	2343.0	2366.1
47.5°	1811.6	1840.9	2330.2	2488.0	2345.4	1807.4	1842.1	2599.5	2817.1	2808.5
50°	2141.9	2280.2	3031.0	3403.3	3062.0	2222.9	2178.5	3190.6	3454.5	3428.3
52.5°	2532.5	2790.9	3873.1	4402.0	4079.1	2690.3	2672.0	3973.6	4134.5	4051.0
55°	3024.3	3283.8	4842.0	5581.1	5121.7	3260.7	3323.4	4881.6	4912.7	4647.6
57.5°	3757.9	3926.7	5983.9	6933.3	6210.0	4035.8	4491.0	6089.9	5718.2	5216.1
60°	5090.0	4753.6	7087.5	8316.5	7367.8	5125.9	6030.8	6805.9	5986.4	5294.1
62.5°	5553.7	5455.6	7778.5	8901.5	8146.5	6021.1	6431.2	6400.1	5639.0	4999.2
65°	4851.1	5280.7	7654.8	8592.6	8046.6	5873.6	5771.2	5952.2	5247.8	4551.3
67.5°	4481.2	4870.0	7186.2	7740.1	7492.7	5373.3	5144.2	5094.9	4405.7	3851.2
70°	4108.3	4493.4	6506.7	6575.6	6460.4	4558.0	4257.0	3926.1	3293.0	2811.0
72.5°	3659.8	3871.9	5564.1	5237.4	5107.0	3580.0	3516.6	2956.6	2468.5	2054.8
75°	3191.8	3130.3	4338.0	3594.6	3692.1	2785.4	2970.0	2171.1	1808.6	1478.9
77.5°	2321.7	2276.0	2905.4	2183.3	2417.9	1824.4	1639.2	866.5	825.1	711.7
80°	1295.5	1561.8	1569.1	1223.6	1526.4	1189.5	410.1	28.6	18.3	26.8
82.5°	602.0	671.5	850.7	567.3	870.8	589.3	84.7	0.0	0.0	0.0
85°	195.0	285.2	238.9	83.5	210.8	199.3	14.0	0.0	0.0	0.0
87.5°	11.6	23.8	6.1	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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