

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: P633586

Luminaire Tested: GWS-SA2F-722-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633586
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-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7235.1 lumens
Efficiency: N/A
Efficacy: 58.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

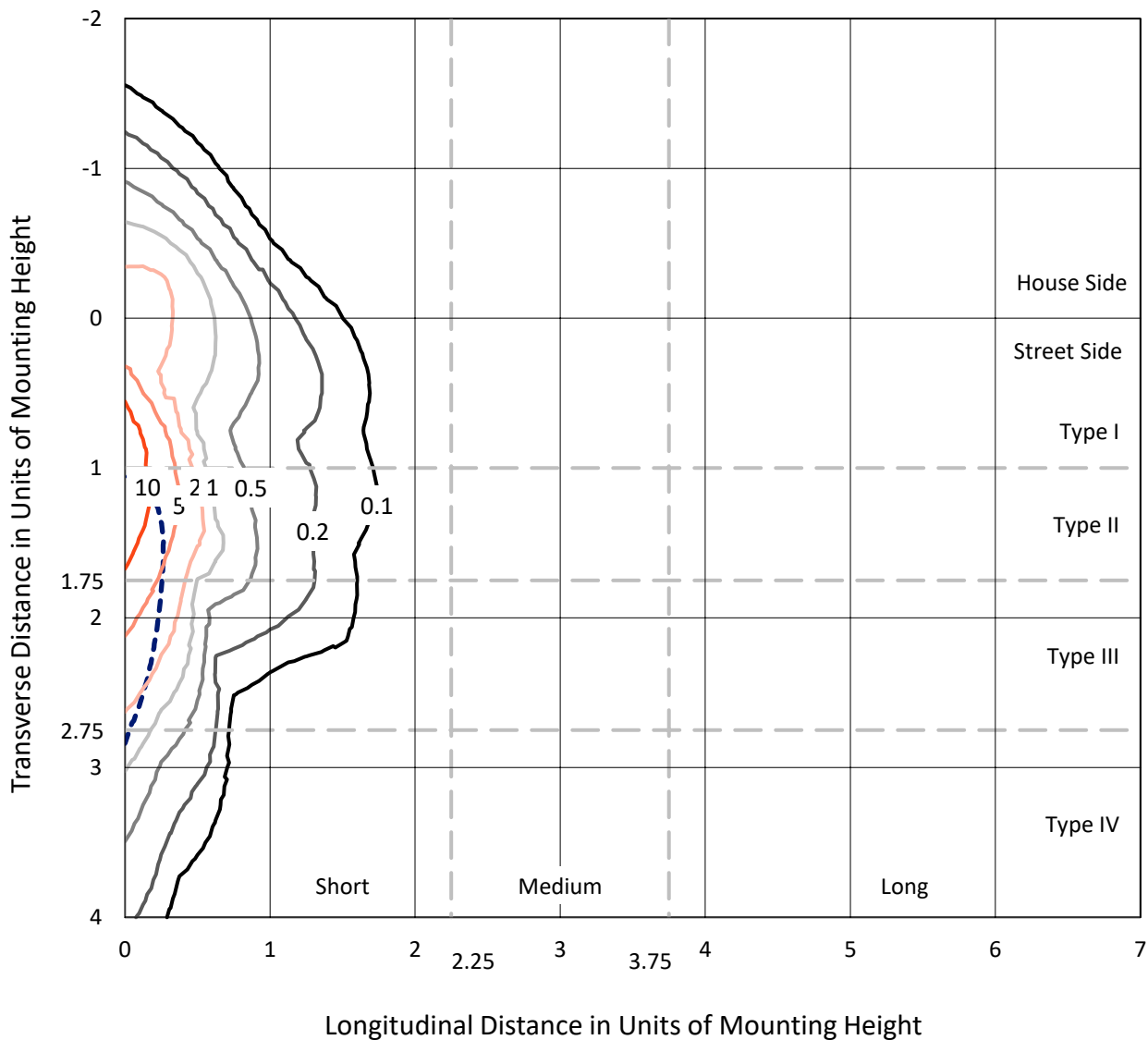
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

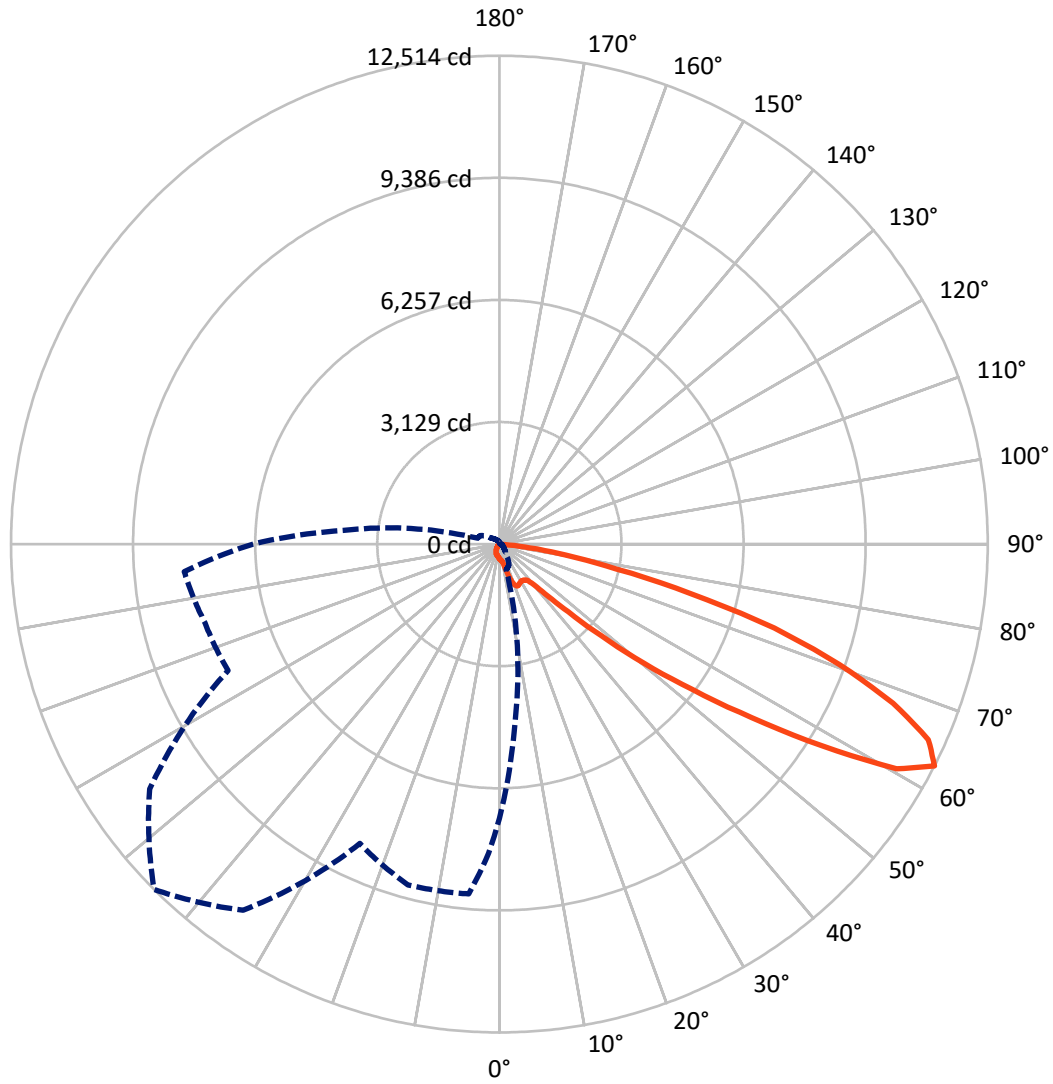
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.9 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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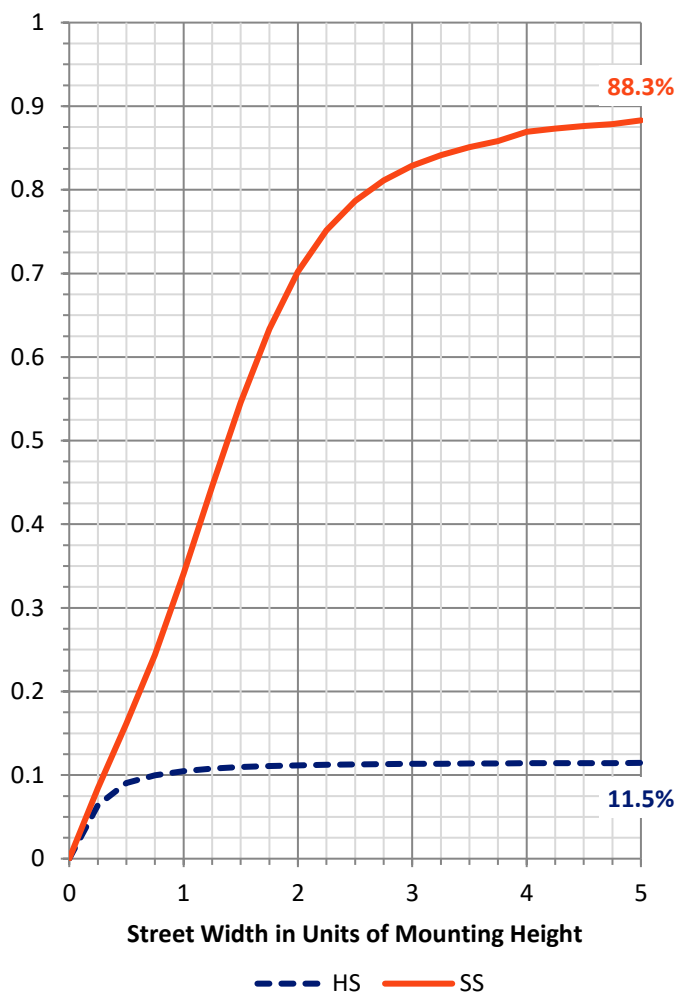
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	840.6	0.0	840.6
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	6394.5	0.0	6394.5
	% Fixture	88.4	0.0	88.4
Total	Lumens	7235.1	0.0	7235.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.4	0.4
10°-20°	111.1	1.5
20°-30°	250.9	3.5
30°-40°	432.2	6.0
40°-50°	815.3	11.3
50°-60°	1820.4	25.2
60°-70°	2434.8	33.7
70°-80°	1221.0	16.9
80°-90°	117.0	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°	7235.1	100.0
0°-180°	7235.1	100.0

Coefficient of Utilization



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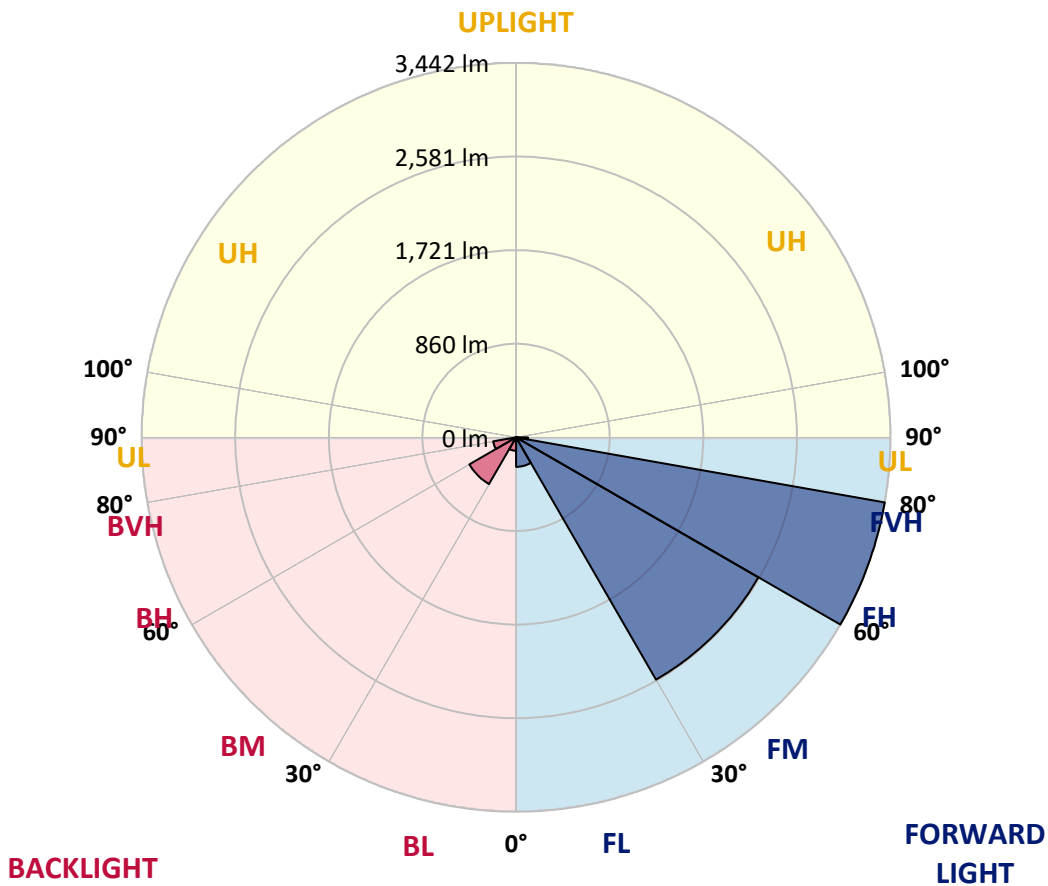
CATALOG NUMBER: GWS-SA2F-722-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	271.0	3.7			
FM (30°-60°)	2572.3	35.6			
FH (60°-80°)	3442.0	47.6			G2/5000
FVH (80°-90°)	109.2	1.5			G2/225
BL (0°-30°)	123.4	1.7	B1/500		
BM (30°-60°)	495.7	6.9	B1/1000		
BH (60°-80°)	213.8	3.0	B1/500		G1/500
BVH (80°-90°)	7.8	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°	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2
2.5°	370.9	370.1	368.4	363.2	358.9	356.4	351.2	351.2	350.4	348.7	345.2
5°	358.9	355.5	352.1	342.7	332.4	326.4	319.5	318.7	318.7	317.0	316.1
7.5°	340.1	336.7	332.4	317.0	307.5	301.5	295.6	294.7	292.1	292.1	292.1
10°	329.8	324.7	317.8	300.7	291.3	286.1	281.8	279.3	277.6	275.0	274.1
12.5°	352.1	342.7	328.1	297.3	284.4	277.6	272.4	270.7	265.6	262.1	259.6
15°	421.5	398.4	369.2	305.0	281.8	271.6	264.7	261.3	257.0	251.0	246.7
17.5°	535.4	502.0	453.2	329.8	279.3	266.4	257.9	251.9	245.9	239.0	233.9
20°	693.0	643.4	585.1	375.2	279.3	260.4	250.1	242.4	233.9	226.2	220.2
22.5°	893.5	843.8	744.4	452.3	282.7	252.7	240.7	230.4	220.2	213.3	206.5
25°	1118.0	1047.7	955.2	545.7	292.1	242.4	229.6	219.3	209.9	201.3	193.6
27.5°	1368.1	1291.9	1168.5	678.5	312.7	232.2	217.6	208.2	199.6	191.0	180.8
30°	1598.6	1553.1	1427.2	837.8	346.1	225.3	208.2	199.6	191.0	179.9	170.5
32.5°	1875.3	1794.7	1691.1	1019.4	390.6	218.5	200.5	188.5	181.6	171.3	161.1
35°	2153.7	2085.1	1948.9	1243.0	440.3	211.6	191.0	179.9	173.9	161.9	150.8
37.5°	2440.7	2425.2	2290.7	1490.6	489.2	203.9	179.9	173.0	167.1	153.3	140.5
40°	2723.4	2695.1	2570.9	1773.3	519.1	195.3	170.5	166.2	159.3	143.9	129.4
42.5°	2994.1	2972.7	2851.9	2044.0	514.9	187.6	161.1	155.9	150.8	135.4	117.4
45°	3326.5	3291.3	3138.8	2244.5	471.2	196.2	151.6	143.1	142.2	127.6	105.4
47.5°	3948.4	3832.8	3574.0	2398.7	427.5	218.5	141.4	131.1	137.1	119.9	93.4
50°	4819.6	4683.4	4309.1	2518.6	426.6	247.6	139.6	119.9	132.8	113.9	83.1
52.5°	5695.2	5455.3	5000.4	2582.9	458.3	269.0	155.1	108.8	127.6	107.9	75.4
55°	6533.8	6036.1	5290.0	2370.4	483.2	292.1	183.3	102.8	118.2	101.1	71.1
57.5°	7333.1	6503.0	5415.9	1875.3	566.3	301.5	200.5	105.4	104.5	92.5	67.7
60°	7442.8	6480.7	5161.5	1090.5	624.5	285.3	193.6	117.4	91.7	82.2	61.7
62.5°	7028.1	6049.8	4581.5	680.2	580.0	279.3	172.2	133.6	83.1	72.8	54.0
65°	6398.5	5373.9	3819.9	438.6	439.5	310.1	150.8	131.1	78.0	64.3	46.3
67.5°	5414.2	4497.5	3009.5	293.8	248.4	264.7	131.9	90.0	76.2	54.8	36.0
70°	3951.8	3201.4	1959.2	196.2	148.2	211.6	110.5	64.3	72.0	45.4	25.7
72.5°	2888.7	2151.1	1094.0	128.5	84.0	123.4	81.4	46.3	55.7	33.4	18.0
75°	2079.1	1480.3	624.5	82.2	55.7	67.7	53.1	31.7	36.0	26.6	16.3
77.5°	1000.6	721.3	283.6	45.4	37.7	34.3	28.3	19.7	22.3	24.0	14.6
80°	37.7	28.3	21.4	22.3	24.0	15.4	12.9	10.3	12.9	16.3	7.7
82.5°	0.0	0.0	0.0	2.6	3.4	4.3	5.1	4.3	5.1	6.0	0.9
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°	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2
2.5°	347.8	346.1	347.8	349.5	351.2	352.9	350.4	352.1	353.8	349.5	351.2
5°	320.4	319.5	324.7	327.2	330.7	332.4	330.7	330.7	329.8	324.7	324.7
7.5°	296.4	297.3	301.5	307.5	311.8	314.4	312.7	311.8	309.3	301.5	301.5
10°	278.4	278.4	285.3	290.4	296.4	299.0	297.3	294.7	292.1	284.4	283.6
12.5°	263.9	263.9	269.0	277.6	284.4	287.8	287.0	283.6	279.3	271.6	270.7
15°	250.1	249.3	257.0	264.7	274.1	278.4	276.7	274.1	266.4	259.6	257.9
17.5°	236.4	235.6	242.4	252.7	263.0	269.0	268.1	262.1	255.3	246.7	245.0
20°	222.7	221.0	229.6	239.9	250.1	256.1	254.4	249.3	240.7	232.2	230.4
22.5°	209.0	208.2	214.2	222.7	232.2	237.3	236.4	232.2	223.6	215.9	215.9
25°	193.6	193.6	197.9	203.9	210.7	213.3	214.2	212.5	207.3	203.0	203.0
27.5°	180.8	178.2	179.9	181.6	185.0	189.3	189.3	191.0	191.9	190.2	191.0
30°	170.5	166.2	163.6	160.2	158.5	160.2	161.9	167.9	173.9	177.3	179.0
32.5°	158.5	153.3	146.5	137.1	131.1	129.4	134.5	145.6	156.8	164.5	168.8
35°	146.5	139.6	126.8	113.1	105.4	102.8	108.8	121.6	137.9	151.6	157.6
37.5°	134.5	125.1	107.1	90.8	82.2	80.5	86.5	100.2	119.1	137.9	145.6
40°	120.8	109.7	88.2	71.1	64.3	62.5	67.7	81.4	101.1	122.5	134.5
42.5°	107.1	93.4	71.1	56.5	49.7	49.7	56.5	66.8	84.8	107.9	122.5
45°	93.4	78.8	58.3	45.4	41.1	42.0	46.3	56.5	71.1	95.1	108.8
47.5°	80.5	67.7	48.0	37.7	34.3	35.1	40.3	48.8	60.8	82.2	96.8
50°	69.4	57.4	42.0	31.7	29.1	30.8	36.0	43.7	54.0	72.8	84.8
52.5°	62.5	51.4	38.6	27.4	25.7	27.4	32.6	39.4	48.8	64.3	76.2
55°	59.1	50.5	38.6	24.8	22.3	24.0	29.1	36.0	43.7	58.3	68.5
57.5°	58.3	52.3	41.1	22.3	18.8	20.6	25.7	32.6	40.3	53.1	61.7
60°	54.8	49.7	40.3	18.0	14.6	17.1	21.4	28.3	36.8	49.7	57.4
62.5°	48.0	43.7	35.1	14.6	11.1	12.9	18.0	24.8	33.4	45.4	54.0
65°	39.4	35.1	27.4	9.4	6.9	8.6	13.7	21.4	29.1	41.1	48.8
67.5°	29.1	24.8	18.8	6.0	3.4	6.0	11.1	18.0	26.6	36.8	44.5
70°	18.0	14.6	10.3	3.4	2.6	5.1	10.3	17.1	24.0	34.3	42.0
72.5°	10.3	6.9	4.3	1.7	2.6	5.1	10.3	17.1	23.1	32.6	39.4
75°	7.7	4.3	1.7	0.9	1.7	4.3	9.4	15.4	22.3	30.8	37.7
77.5°	5.1	2.6	0.9	0.0	0.9	3.4	8.6	14.6	20.6	29.1	36.0
80°	0.9	0.0	0.0	0.0	0.0	2.6	7.7	12.9	18.8	25.7	31.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.9	6.0	11.1	16.3	21.4	25.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	3.4	8.6	12.9	16.3	18.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	8.6	10.3	12.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2
2.5°	350.4	355.5	355.5	358.9	363.2	370.9	375.2	381.2	385.5	389.8	391.5
5°	323.8	324.7	325.5	327.2	332.4	341.0	348.7	358.1	369.2	377.8	382.9
7.5°	301.5	301.5	301.5	304.1	309.3	315.3	323.0	335.8	348.7	358.9	367.5
10°	282.7	285.3	286.1	290.4	296.4	304.1	312.7	323.8	338.4	352.1	367.5
12.5°	270.7	273.3	277.6	281.8	287.8	296.4	305.8	320.4	350.4	378.6	411.2
15°	259.6	263.0	268.1	274.1	281.0	290.4	300.7	330.7	400.9	454.0	505.4
17.5°	247.6	252.7	259.6	265.6	274.1	284.4	297.3	355.5	493.4	581.7	669.1
20°	232.2	239.0	246.7	256.1	266.4	278.4	297.3	406.9	627.1	753.9	869.5
22.5°	217.6	224.4	233.9	245.9	257.9	269.9	301.5	484.9	799.3	959.5	1106.0
25°	205.6	214.2	223.6	233.9	247.6	261.3	311.8	594.5	1006.6	1213.0	1316.7
27.5°	194.5	204.7	214.2	222.7	234.7	250.1	335.0	741.0	1251.6	1461.5	1542.9
30°	183.3	195.3	204.7	213.3	225.3	241.6	370.1	927.8	1524.0	1727.9	1736.5
32.5°	173.9	185.0	196.2	204.7	215.9	234.7	418.9	1146.2	1803.3	2000.3	1919.8
35°	163.6	176.5	186.8	196.2	208.2	228.7	475.5	1381.8	2085.1	2250.5	2102.3
37.5°	153.3	167.9	180.8	187.6	199.6	222.7	516.6	1627.7	2373.0	2494.6	2262.5
40°	143.9	160.2	174.8	181.6	187.6	215.0	522.6	1879.5	2665.1	2735.4	2413.2
42.5°	133.6	151.6	164.5	173.9	179.0	209.9	486.6	2092.0	2910.1	2975.2	2610.3
45°	122.5	143.9	154.2	161.1	171.3	213.3	440.3	2256.5	3190.2	3302.5	2935.0
47.5°	111.4	135.4	143.9	149.1	162.8	233.9	423.2	2366.1	3652.0	3885.0	3482.4
50°	101.1	127.6	137.1	136.2	161.1	260.4	442.0	2449.2	4345.9	4620.0	4232.8
52.5°	90.0	119.1	130.2	126.8	173.9	281.0	479.7	2515.2	4879.6	5481.8	5241.1
55°	80.5	109.7	119.9	119.1	197.9	296.4	508.9	2167.4	5100.6	6282.8	6377.1
57.5°	73.7	99.4	107.9	122.5	213.3	296.4	588.5	1538.6	5104.9	6872.2	7884.8
60°	67.7	90.0	95.9	134.5	207.3	281.0	582.5	942.3	4704.8	6832.0	8686.7
62.5°	62.5	81.4	89.1	137.9	183.3	278.4	526.0	584.3	4012.7	6312.0	8105.0
65°	58.3	74.5	85.7	126.8	166.2	298.1	354.7	419.8	3254.5	5719.1	7437.6
67.5°	54.0	68.5	90.8	103.7	150.8	266.4	256.1	298.1	2554.6	5068.9	6825.1
70°	50.5	65.1	95.9	84.8	131.9	208.2	181.6	226.2	1955.8	4229.4	5962.4
72.5°	48.0	60.8	80.5	66.8	107.1	161.1	126.8	164.5	1278.2	3301.6	4860.8
75°	45.4	55.7	59.1	54.0	79.7	105.4	95.9	110.5	761.6	2413.2	3688.0
77.5°	44.5	52.3	48.0	43.7	54.0	62.5	72.8	74.5	371.8	1207.1	1932.7
80°	39.4	47.1	41.1	36.0	36.8	41.1	54.0	49.7	84.8	306.7	515.7
82.5°	30.8	36.8	34.3	30.0	30.0	30.0	36.0	33.4	27.4	137.9	233.0
85°	21.4	25.7	25.7	24.0	23.1	23.1	22.3	21.4	7.7	8.6	12.9
87.5°	14.6	18.0	18.8	18.0	15.4	13.7	12.0	10.3	3.4	0.0	1.7
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°	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2	375.2
2.5°	397.5	400.1	400.1	396.6	394.1	387.2	380.4	373.5	371.8	370.9
5°	397.5	407.8	412.9	412.1	406.1	394.9	380.4	364.9	360.7	358.9
7.5°	391.5	411.2	426.6	429.2	418.1	398.4	371.8	348.7	342.7	340.1
10°	405.2	443.8	474.6	478.9	466.0	427.5	384.6	345.2	335.8	329.8
12.5°	478.9	542.3	580.0	598.0	573.1	524.3	453.2	382.9	361.5	352.1
15°	627.9	717.9	789.9	789.9	766.7	680.2	590.2	476.3	447.2	421.5
17.5°	819.0	932.1	995.5	988.6	953.5	892.7	784.7	621.1	562.0	535.4
20°	1036.6	1104.3	1118.8	1114.5	1099.1	1064.0	989.5	813.8	734.2	693.0
22.5°	1225.0	1207.1	1185.6	1168.5	1164.2	1174.5	1164.2	1028.9	966.3	893.5
25°	1352.7	1250.7	1186.5	1155.7	1170.2	1229.3	1293.6	1243.0	1193.3	1118.0
27.5°	1422.1	1245.6	1153.1	1121.4	1146.2	1230.2	1369.8	1455.5	1404.1	1368.1
30°	1459.8	1241.3	1131.7	1100.8	1138.5	1243.9	1422.9	1654.2	1655.9	1598.6
32.5°	1513.7	1268.7	1135.9	1107.7	1158.2	1285.0	1489.8	1856.4	1906.1	1875.3
35°	1574.6	1310.7	1155.7	1130.0	1192.5	1339.8	1564.3	2060.3	2164.0	2153.7
37.5°	1632.0	1357.8	1201.9	1177.1	1244.7	1387.0	1636.2	2260.8	2404.7	2440.7
40°	1691.9	1423.8	1344.1	1368.1	1405.8	1461.5	1700.5	2434.7	2669.4	2723.4
42.5°	1833.3	1652.5	1774.2	1819.6	1824.7	1709.9	1841.0	2657.4	2929.8	2994.1
45°	2148.5	2059.4	2408.1	2472.4	2438.9	2091.1	2179.4	2978.7	3293.9	3326.5
47.5°	2546.9	2588.0	3275.9	3497.8	3297.3	2540.9	2589.7	3654.6	3960.4	3948.4
50°	3011.2	3205.7	4261.1	4784.5	4304.8	3125.1	3062.6	4485.5	4856.5	4819.6
52.5°	3560.3	3923.6	5445.0	6188.6	5734.6	3782.2	3756.5	5586.4	5812.5	5695.2
55°	4251.7	4616.6	6807.1	7846.3	7200.3	4584.1	4672.3	6862.8	6906.5	6533.8
57.5°	5283.1	5520.4	8412.5	9747.2	8730.4	5673.7	6313.7	8561.6	8039.0	7333.1
60°	7155.8	6682.9	9964.0	11691.9	10358.0	7206.3	8478.5	9568.2	8416.0	7442.8
62.5°	7807.7	7669.8	10935.4	12514.3	11452.9	8464.8	9041.3	8997.6	7927.6	7028.1
65°	6820.0	7423.9	10761.5	12079.9	11312.4	8257.5	8113.5	8368.0	7377.7	6398.5
67.5°	6300.0	6846.5	10102.7	10881.5	10533.6	7554.1	7232.0	7162.6	6193.7	5414.2
70°	5775.7	6317.1	9147.6	9244.4	9082.4	6407.9	5984.7	5519.5	4629.5	3951.8
72.5°	5145.2	5443.3	7822.3	7363.1	7179.8	5033.0	4943.9	4156.6	3470.4	2888.7
75°	4487.3	4400.7	6098.7	5053.5	5190.6	3915.9	4175.4	3052.3	2542.6	2079.1
77.5°	3263.9	3199.7	4084.6	3069.5	3399.3	2564.9	2304.4	1218.2	1159.9	1000.6
80°	1821.3	2195.7	2205.9	1720.2	2146.0	1672.2	576.5	40.3	25.7	37.7
82.5°	846.4	944.1	1195.9	797.6	1224.2	828.4	119.1	0.0	0.0	0.0
85°	274.1	400.9	335.8	117.4	296.4	280.1	19.7	0.0	0.0	0.0
87.5°	16.3	33.4	8.6	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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