

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: P631390

Luminaire Tested: GWS-SA1F-750-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-750-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5348.3 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

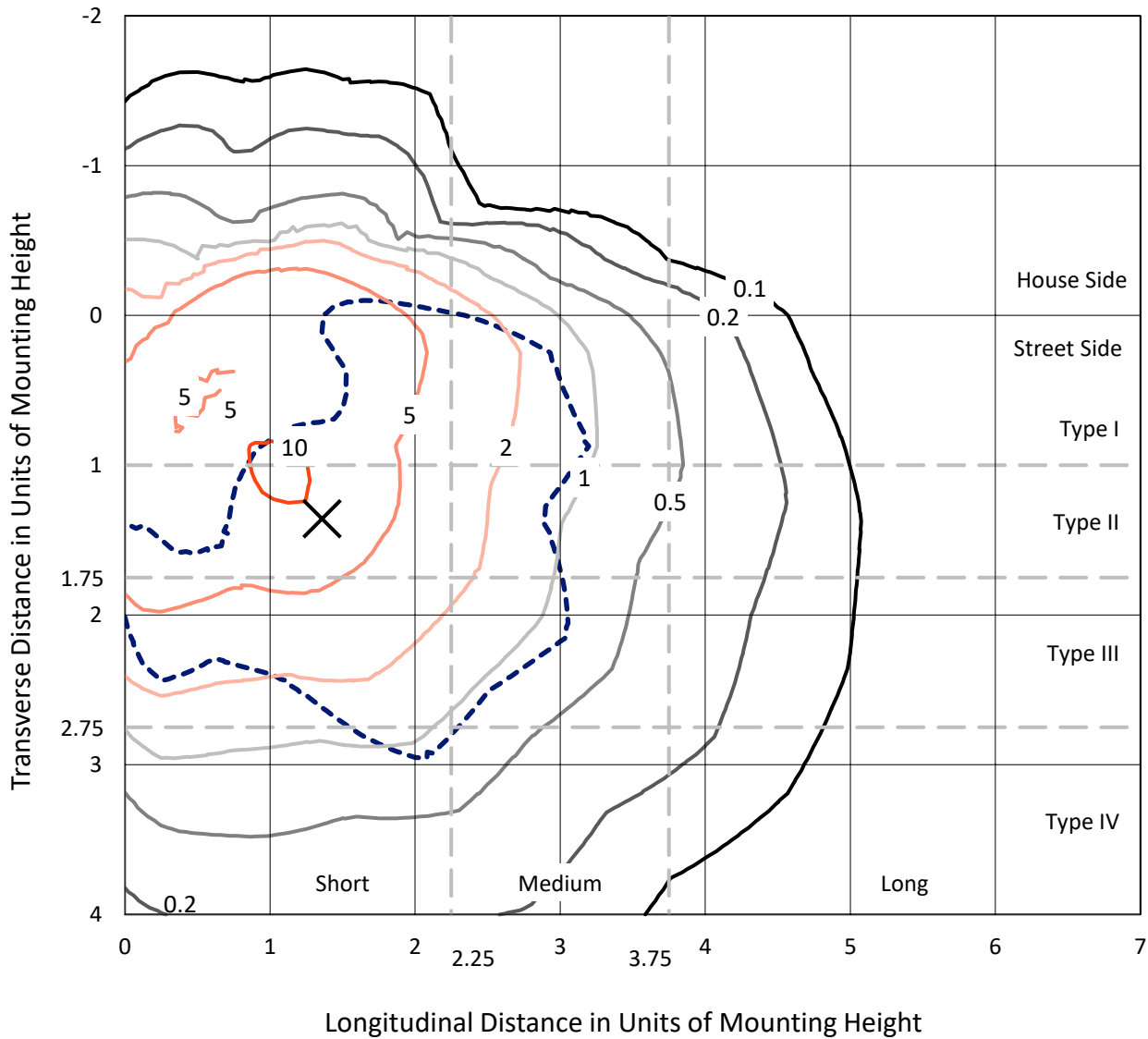
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

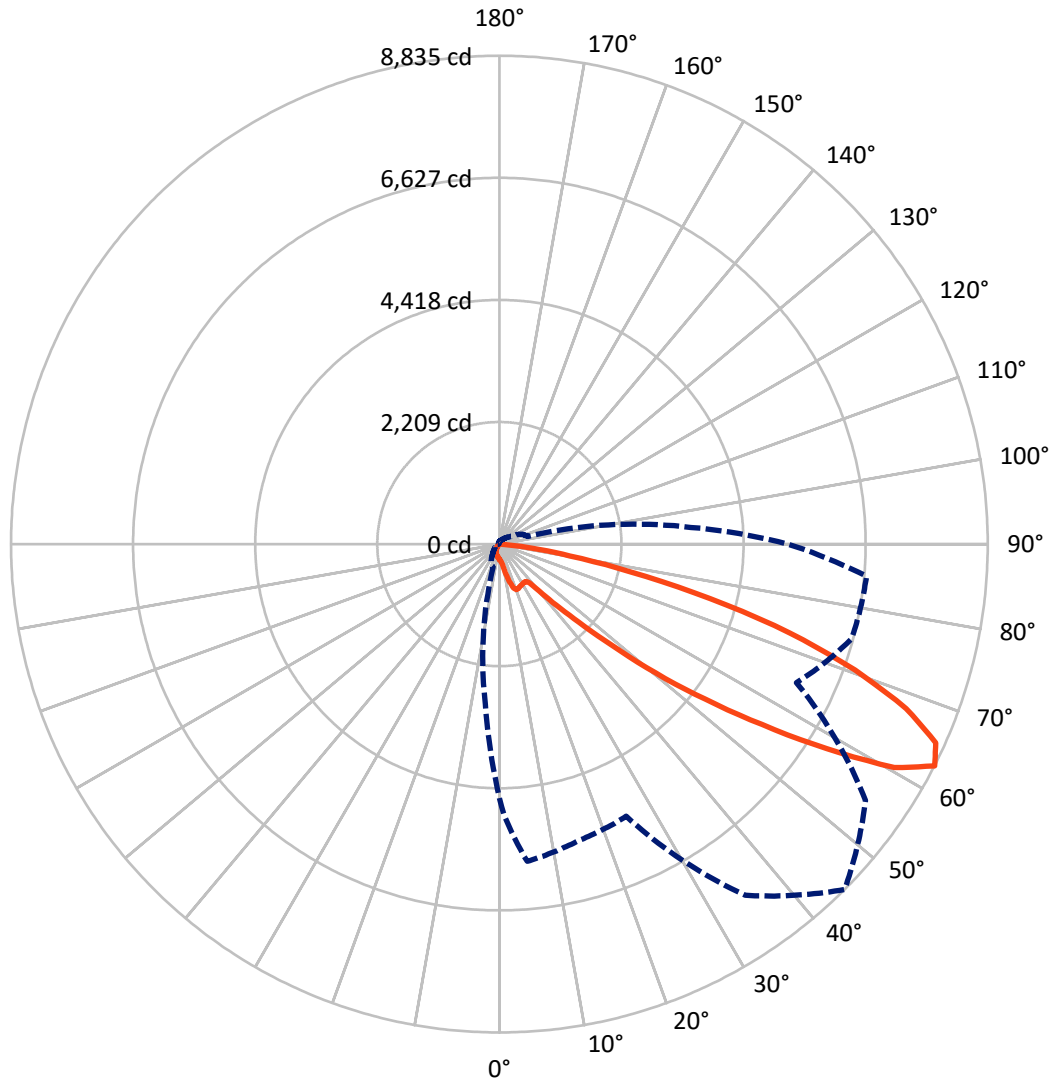
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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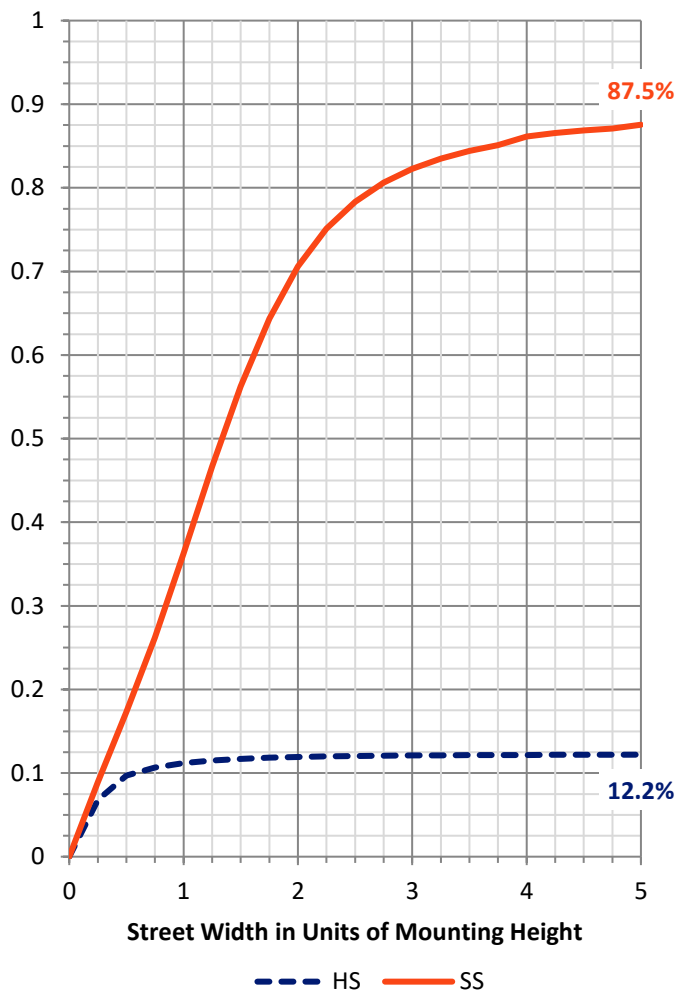
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	660.0	0.0	660.0
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	4688.3	0.0	4688.3
	% Fixture	87.7	0.0	87.7
Total	Lumens	5348.3	0.0	5348.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.7	0.5
10°-20°	93.2	1.7
20°-30°	202.7	3.8
30°-40°	332.7	6.2
40°-50°	611.6	11.4
50°-60°	1313.5	24.6
60°-70°	1764.2	33.0
70°-80°	918.6	17.2
80°-90°	87.1	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°	5348.3	100.0
0°-180°	5348.3	100.0

Coefficient of Utilization



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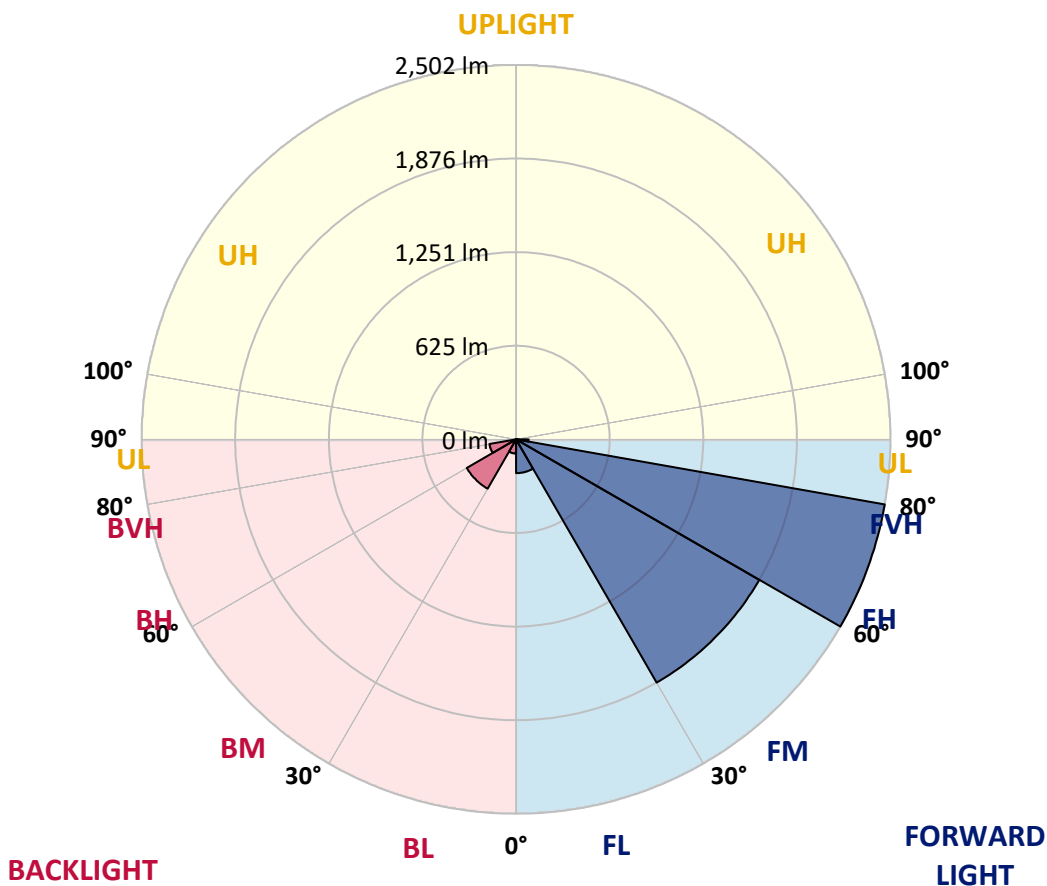
CATALOG NUMBER: GWS-SA1F-750-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	225.9	4.2			
FM (30°-60°)	1877.2	35.1			
FH (60°-80°)	2502.0	46.8			G2/5000
FVH (80°-90°)	83.2	1.6			G1/100
BL (0°-30°)	94.7	1.8	B0/110		
BM (30°-60°)	380.6	7.1	B1/1000		
BH (60°-80°)	180.8	3.4	B1/500		G1/500
BVH (80°-90°)	3.9	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0
2.5°	283.6	284.8	286.0	290.4	293.4	295.9	296.5	294.7	290.4	286.0	279.9
5°	274.9	276.1	280.5	292.2	303.9	313.2	316.3	314.4	303.9	290.4	276.1
7.5°	274.3	276.8	287.3	312.0	337.3	356.5	361.4	357.1	337.3	310.1	281.1
10°	296.5	300.9	316.3	360.8	407.1	441.1	454.7	436.2	404.6	355.2	307.7
12.5°	354.6	362.0	391.7	456.5	528.2	573.3	591.8	569.0	519.6	447.9	372.5
15°	446.0	457.2	501.6	598.6	683.3	723.4	729.6	716.6	659.2	580.1	478.8
17.5°	575.2	591.2	660.4	759.2	820.4	834.6	832.8	819.2	777.2	722.8	627.0
20°	729.6	748.7	816.7	898.2	904.4	887.7	878.5	870.4	856.2	847.0	772.2
22.5°	885.3	908.7	979.8	1000.2	944.6	896.4	873.5	879.7	900.7	946.4	916.2
25°	1040.3	1062.6	1129.3	1074.3	963.1	882.8	853.8	868.6	918.6	1017.5	1056.4
27.5°	1221.3	1238.0	1277.6	1125.0	966.2	871.7	843.3	866.1	927.3	1062.0	1210.2
30°	1409.8	1419.7	1400.5	1138.6	955.7	855.0	832.8	866.1	942.1	1091.6	1325.7
32.5°	1548.1	1550.0	1487.6	1139.8	950.1	841.4	822.9	862.4	956.3	1116.3	1437.6
35°	1690.9	1681.6	1571.0	1158.3	965.0	846.4	830.3	872.9	978.6	1145.4	1535.8
37.5°	1835.4	1818.7	1664.3	1188.6	1003.3	900.1	890.2	926.7	1014.4	1185.5	1643.9
40°	1983.7	1960.8	1761.3	1234.3	1088.5	1083.0	1116.9	1112.6	1112.6	1236.8	1755.1
42.5°	2164.7	2138.1	1904.6	1363.4	1287.4	1411.6	1504.3	1446.8	1340.6	1354.8	1899.7
45°	2403.8	2380.9	2153.0	1610.5	1599.4	1884.8	2009.6	1896.0	1631.5	1627.2	2141.2
47.5°	2786.2	2781.8	2548.9	1897.2	1981.2	2487.2	2728.1	2509.4	1963.3	1915.7	2598.4
50°	3323.6	3310.7	3042.6	2233.3	2435.3	3233.4	3663.4	3298.9	2364.2	2252.4	3210.6
52.5°	3929.1	3942.7	3733.8	2600.2	2917.8	4063.7	4662.4	4203.4	2799.8	2680.5	3981.0
55°	4499.3	4577.1	4522.1	3029.6	3389.1	4980.5	5759.5	5195.5	3339.1	3240.9	4844.6
57.5°	4945.3	5164.6	5550.1	3653.5	3943.3	6053.0	6984.6	6271.1	3968.6	4150.8	6020.2
60°	4970.0	5260.4	6155.5	4958.9	4656.2	6972.8	8207.8	7321.9	4958.3	5695.9	6941.3
62.5°	4597.5	4908.9	5761.4	5552.0	5432.7	7755.6	8835.4	8087.9	5931.9	6600.9	6668.3
65°	4171.2	4485.7	5321.5	4879.2	5342.5	7722.2	8676.1	8105.9	6020.2	5985.6	6179.6
67.5°	3526.9	3809.2	4566.0	4318.9	4924.3	7349.7	7939.7	7595.0	5546.4	5598.3	5684.8
70°	2574.3	2846.1	3548.5	3560.9	4300.3	6678.2	6822.1	6774.5	5107.8	5162.8	4915.7
72.5°	1859.5	2088.7	2694.7	2920.2	3433.0	5600.1	5500.7	5684.2	4382.5	4598.1	3948.2
75°	1336.9	1508.6	1976.9	2540.3	2721.3	4158.9	3937.7	4402.3	3516.4	3959.3	2968.4
77.5°	542.4	603.0	777.8	1711.2	1788.5	2797.9	2410.6	3197.6	2506.9	2601.5	1438.8
80°	22.2	24.7	32.1	883.4	1226.3	1574.1	1289.9	1709.4	1655.6	1047.7	339.8
82.5°	2.5	2.5	5.6	254.5	536.8	868.6	607.9	984.7	838.3	444.2	154.4
85°	0.6	0.6	1.2	29.0	126.0	139.0	82.2	302.1	389.8	181.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	5.6	6.2	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°	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0
2.5°	279.9	276.8	273.1	269.4	267.5	262.6	260.7	259.5	258.2	258.8	258.8
5°	270.6	263.8	255.8	247.7	243.4	238.5	236.0	234.8	235.4	237.8	237.8
7.5°	269.4	256.4	239.1	228.6	223.6	219.9	217.5	216.2	216.8	219.9	221.2
10°	289.7	266.9	236.0	218.1	212.5	208.8	206.3	204.5	203.2	205.7	206.3
12.5°	333.6	302.1	250.8	216.8	207.0	202.0	200.2	196.5	194.6	195.8	196.5
15°	424.4	370.0	280.5	221.8	202.0	196.5	193.4	190.3	187.2	186.6	187.2
17.5°	543.0	465.2	325.6	233.5	198.3	191.5	187.2	182.9	178.5	177.9	177.3
20°	690.1	581.9	388.6	252.1	195.2	187.2	181.0	174.8	169.3	167.4	167.4
22.5°	824.1	722.8	469.5	274.9	190.9	181.0	173.6	166.2	160.0	156.9	156.3
25°	987.8	872.3	566.5	301.5	184.7	173.0	164.9	157.5	151.4	147.6	146.4
27.5°	1152.8	1029.8	676.5	336.1	177.3	164.9	157.5	150.7	143.9	139.6	138.4
30°	1312.8	1199.7	800.0	379.3	171.7	156.9	150.7	143.9	137.8	131.0	129.1
32.5°	1484.5	1373.3	938.4	427.5	167.4	151.4	144.6	138.4	130.4	124.2	121.1
35°	1650.1	1552.5	1091.0	474.5	163.1	146.4	139.0	132.8	124.2	117.4	113.1
37.5°	1816.9	1734.7	1250.4	502.9	156.9	139.6	132.8	127.9	118.0	110.0	105.0
40°	1993.6	1923.1	1422.7	491.1	151.4	132.2	128.5	122.9	111.8	102.6	96.4
42.5°	2187.5	2102.9	1598.2	446.0	146.4	126.0	122.3	116.8	106.3	95.1	87.1
45°	2431.6	2300.0	1742.1	378.1	148.9	119.8	112.4	111.2	101.3	87.1	77.2
47.5°	2851.0	2602.7	1853.9	334.2	165.6	113.1	104.4	107.5	97.0	79.1	68.0
50°	3492.9	3104.3	1958.4	331.1	190.9	110.0	97.0	105.0	92.7	71.0	59.9
52.5°	4104.5	3614.0	2025.1	358.3	213.1	118.0	89.6	101.9	89.6	65.5	54.4
55°	4689.5	3908.1	1905.8	378.1	234.1	142.1	84.0	97.0	85.9	62.4	52.5
57.5°	5320.3	4039.0	1500.6	418.2	249.0	162.5	85.3	89.6	80.9	60.5	51.9
60°	5508.7	3871.6	905.7	470.7	240.9	168.7	94.5	79.7	74.1	56.8	50.0
62.5°	5215.9	3474.4	534.4	428.7	234.1	159.4	108.1	73.5	67.3	51.9	46.3
65°	4777.9	2935.1	348.4	362.0	248.3	142.1	114.9	70.4	61.2	47.0	40.8
67.5°	4277.5	2364.2	244.0	213.8	229.2	127.9	97.0	69.8	55.0	39.5	33.4
70°	3602.9	1770.5	171.7	141.5	190.9	113.7	75.4	68.0	48.2	32.1	25.9
72.5°	2783.7	1108.3	127.9	91.4	135.9	92.7	59.9	57.5	38.9	26.6	19.8
75°	2052.9	632.0	90.2	66.1	89.6	70.4	44.5	40.8	33.4	25.3	17.9
77.5°	1071.8	316.3	56.2	50.7	51.3	43.9	32.1	29.7	30.9	25.3	16.7
80°	205.7	63.0	34.0	37.1	27.8	27.8	23.5	24.7	27.2	20.4	14.2
82.5°	85.9	13.6	18.5	21.0	17.3	19.2	19.2	19.8	19.2	14.8	10.5
85°	0.0	0.0	8.0	8.6	11.7	11.7	9.9	9.9	9.9	8.6	6.2
87.5°	0.0	0.0	0.0	0.0	0.6	1.9	3.7	4.3	4.9	3.7	2.5
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°	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0
2.5°	258.2	257.0	258.8	260.1	261.3	261.3	260.1	258.8	257.0	258.8	257.0
5°	238.5	240.3	243.4	244.6	245.9	243.4	242.2	238.5	235.4	236.0	234.8
7.5°	223.0	224.9	228.6	231.0	231.0	229.8	226.1	222.4	217.5	217.5	216.8
10°	208.8	211.3	215.6	218.7	219.9	218.7	215.0	210.0	205.7	205.7	203.9
12.5°	197.1	200.2	205.1	209.4	210.7	209.4	205.7	200.8	195.8	195.8	194.6
15°	187.2	190.9	196.5	201.4	203.2	201.4	197.1	190.9	186.0	186.6	184.7
17.5°	177.9	181.0	188.4	194.0	195.8	194.0	188.4	180.4	175.4	176.7	175.4
20°	167.4	171.1	178.5	184.7	186.6	184.7	178.5	169.9	164.9	164.9	165.6
22.5°	156.3	160.0	167.4	171.7	174.2	172.4	166.2	158.2	153.2	153.2	153.8
25°	146.4	148.3	153.8	158.2	158.8	156.9	152.0	145.8	142.1	143.9	144.6
27.5°	137.1	137.1	139.6	142.1	141.5	139.6	137.8	132.8	132.2	134.1	135.9
30°	127.3	124.2	122.9	121.1	120.5	119.8	121.7	121.7	122.9	125.4	127.3
32.5°	118.6	112.4	106.9	101.3	98.2	100.7	105.6	110.0	114.3	118.0	119.8
35°	108.7	98.8	89.6	82.2	77.2	80.9	89.0	97.0	104.4	109.3	112.4
37.5°	98.8	84.6	73.5	64.2	60.5	63.6	72.3	83.4	94.5	100.7	105.0
40°	88.3	70.4	57.5	50.0	46.3	49.4	58.1	69.2	84.0	92.0	97.6
42.5°	77.8	58.1	46.3	38.9	37.1	38.9	45.7	56.8	72.9	82.8	90.2
45°	67.3	48.2	37.1	31.5	29.7	31.5	37.1	46.3	62.4	73.5	82.2
47.5°	58.1	40.8	30.9	25.9	24.7	26.6	30.9	38.9	52.5	63.6	73.5
50°	50.7	35.8	26.6	22.2	21.0	22.9	26.6	32.7	44.5	54.4	64.9
52.5°	45.7	33.4	23.5	19.2	18.5	19.8	22.9	27.8	37.7	46.3	56.2
55°	44.5	33.4	21.6	17.3	16.7	17.9	20.4	24.1	32.7	40.2	48.8
57.5°	45.7	35.8	20.4	14.8	14.2	15.4	17.9	21.0	28.4	34.6	42.6
60°	45.7	36.4	17.9	11.7	11.1	12.4	14.8	18.5	25.3	30.3	37.1
62.5°	41.4	33.4	14.8	9.3	8.0	9.3	12.4	15.4	22.2	27.2	32.7
65°	35.8	28.4	12.4	6.8	5.6	6.8	9.9	13.0	19.2	23.5	29.7
67.5°	29.0	21.6	9.3	4.9	3.7	4.9	7.4	10.5	16.1	20.4	26.6
70°	21.6	15.4	7.4	4.3	3.7	4.3	6.8	9.9	14.2	18.5	24.7
72.5°	16.1	10.5	6.2	4.3	3.1	4.3	6.2	9.3	13.6	17.9	23.5
75°	13.6	8.6	5.6	3.7	3.1	3.7	5.6	8.6	12.4	16.7	22.2
77.5°	13.0	8.0	4.9	3.1	2.5	3.1	4.9	7.4	11.1	15.4	21.6
80°	11.1	6.8	4.3	2.5	1.9	2.5	4.3	6.2	8.6	11.7	16.7
82.5°	8.6	5.6	3.1	1.2	0.6	1.2	3.1	3.7	5.6	6.8	9.9
85°	5.6	3.1	1.2	0.0	0.0	0.0	1.2	2.5	2.5	3.1	4.9
87.5°	2.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2	1.9
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°	359°	360°
0°	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0	278.0
2.5°	260.7	261.3	262.6	264.4	268.7	272.4	276.1	281.1	283.6	283.6
5°	236.0	236.6	237.2	239.7	245.9	250.8	258.8	268.7	273.7	274.9
7.5°	216.8	218.1	219.3	221.2	227.3	234.1	244.6	263.2	272.4	274.3
10°	205.7	207.6	210.0	213.8	219.3	226.7	244.6	278.0	293.4	296.5
12.5°	197.1	200.2	202.6	207.0	213.8	225.5	261.3	320.0	347.2	354.6
15°	188.4	192.1	195.8	200.2	207.6	229.8	293.4	395.4	440.5	446.0
17.5°	179.8	184.1	189.0	194.0	203.2	240.3	344.1	499.8	562.8	575.2
20°	169.9	175.4	182.2	188.4	198.9	257.0	414.5	624.0	703.0	729.6
22.5°	159.4	166.2	174.2	182.2	194.0	277.4	499.8	757.4	868.0	885.3
25°	150.7	157.5	164.9	173.0	186.0	302.1	603.0	923.0	1023.7	1040.3
27.5°	142.7	149.5	156.3	163.7	177.9	334.2	727.1	1099.0	1204.0	1221.3
30°	134.1	142.1	148.9	156.3	170.5	373.8	870.4	1294.2	1393.7	1409.8
32.5°	126.6	134.7	141.5	148.9	164.9	417.0	1021.2	1467.2	1548.1	1548.1
35°	120.5	129.1	134.1	143.9	160.6	444.8	1163.9	1632.2	1693.3	1690.9
37.5°	113.7	124.2	127.9	134.7	155.1	447.9	1297.9	1806.4	1851.5	1835.4
40°	106.9	118.0	123.6	127.3	148.9	422.6	1445.0	1966.4	2004.7	1983.7
42.5°	100.7	109.3	117.4	121.7	145.2	378.1	1563.0	2137.5	2183.2	2164.7
45°	94.5	101.9	106.9	114.9	147.6	347.2	1664.3	2337.1	2417.4	2403.8
47.5°	88.3	94.5	97.6	110.0	164.3	333.0	1726.1	2645.9	2797.3	2786.2
50°	81.5	89.0	89.0	108.7	189.0	337.9	1779.8	3093.2	3327.3	3323.6
52.5°	74.8	82.8	81.5	118.0	208.2	360.8	1841.0	3488.0	3895.1	3929.1
55°	68.0	75.4	76.6	136.5	219.3	380.6	1604.4	3654.2	4380.0	4499.3
57.5°	60.5	64.9	79.7	150.7	215.6	438.0	1099.0	3684.4	4689.5	4945.3
60°	52.5	56.2	90.2	147.6	203.9	404.6	691.9	3412.6	4645.7	4970.0
62.5°	45.7	51.9	95.1	130.4	207.6	350.9	441.1	2908.5	4227.4	4597.5
65°	40.2	50.0	86.5	118.0	210.0	237.8	297.8	2366.1	3819.1	4171.2
67.5°	35.8	55.6	71.0	105.0	180.4	167.4	204.5	1838.5	3211.2	3526.9
70°	32.7	56.8	58.1	90.2	139.6	107.5	134.7	1237.4	2213.5	2574.3
72.5°	29.7	42.0	43.9	72.3	90.2	65.5	87.1	708.0	1613.6	1859.5
75°	28.4	28.4	30.3	47.0	50.0	47.6	56.2	422.6	1157.1	1336.9
77.5°	26.6	21.6	19.2	30.3	27.2	34.0	33.4	187.8	501.6	542.4
80°	21.0	15.4	13.0	19.2	18.5	22.9	19.8	15.4	22.9	22.2
82.5°	13.0	9.9	9.3	11.7	10.5	11.7	9.3	2.5	2.5	2.5
85°	6.2	5.6	4.9	4.9	5.6	4.9	3.7	1.2	0.6	0.6
87.5°	3.1	3.1	2.5	1.9	2.5	2.5	1.9	0.6	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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