

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: P633865

Luminaire Tested: GWS-SA2F-750-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633865
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-SA2F-750-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10298.4 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

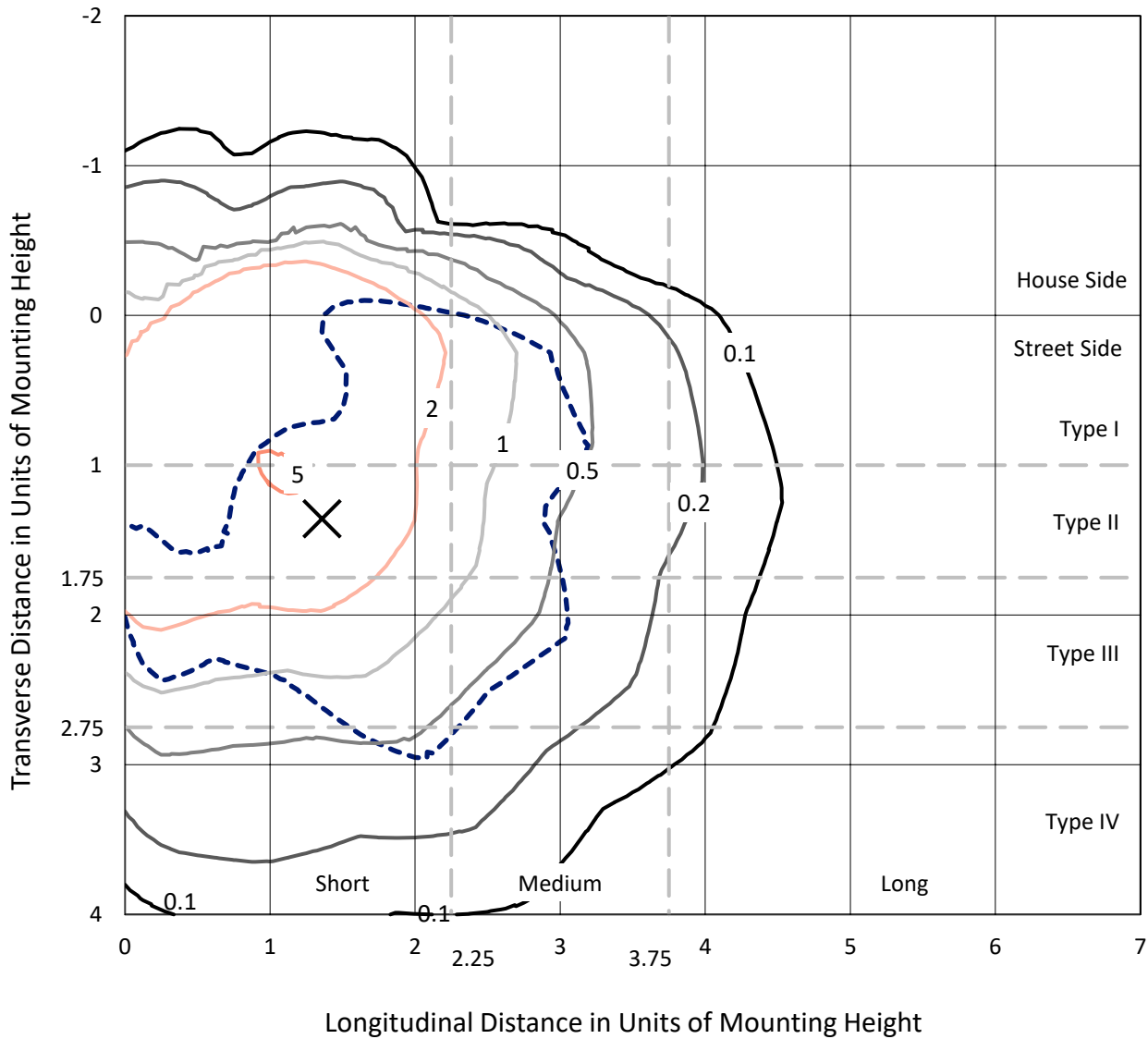
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

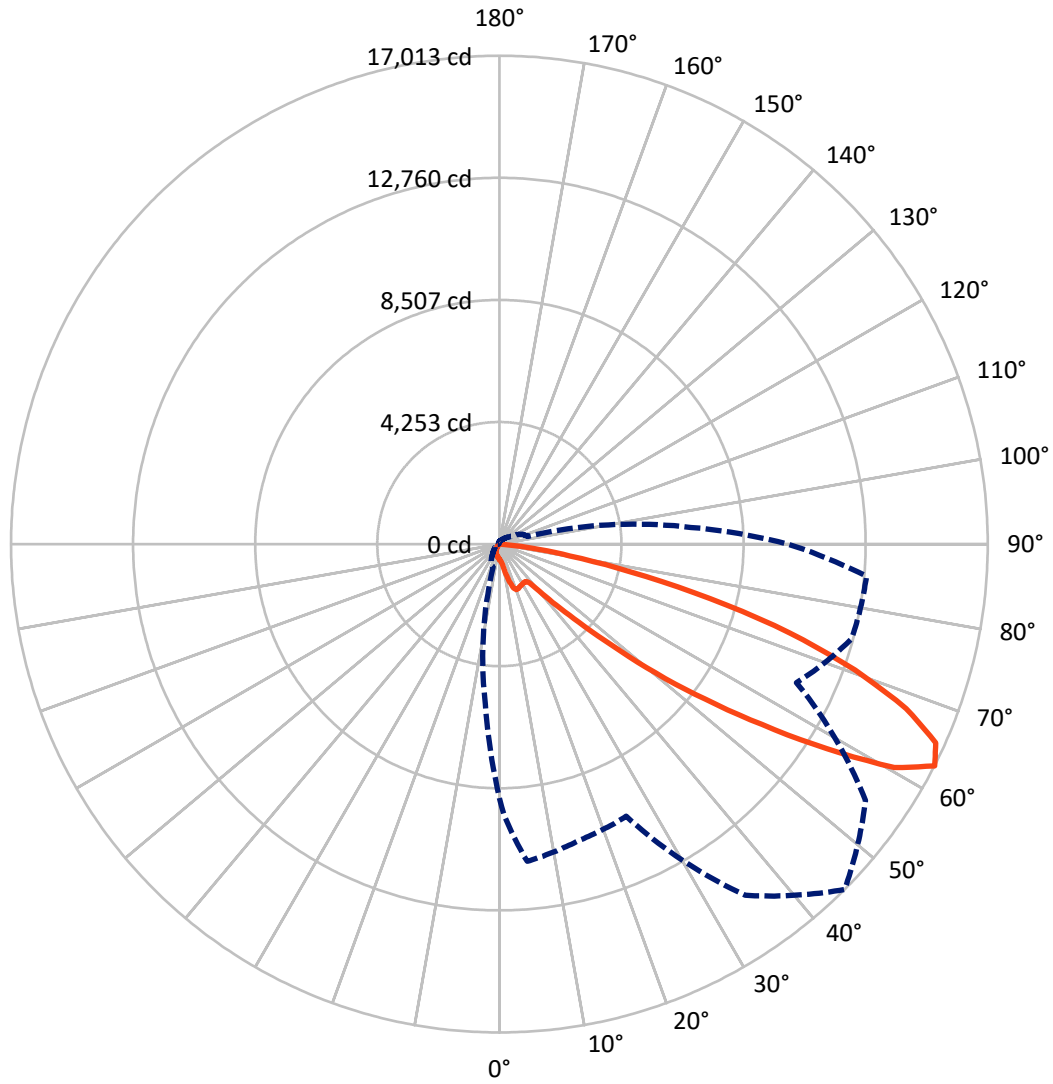
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 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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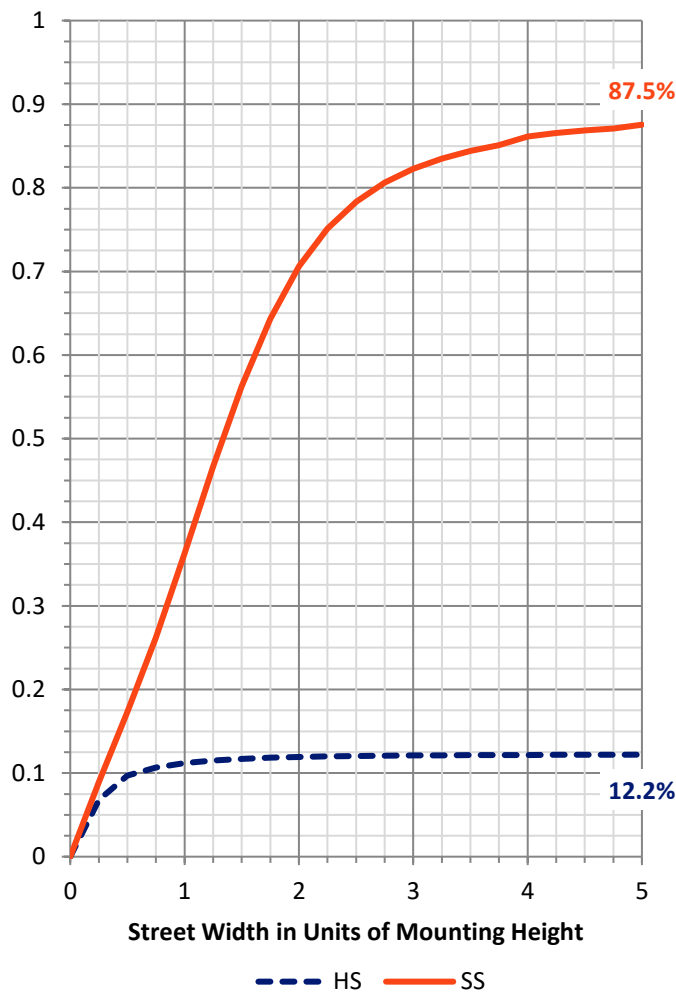
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1270.8	0.0	1270.8
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	9027.6	0.0	9027.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	10298.4	0.0	10298.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.5	0.5
10°-20°	179.5	1.7
20°-30°	390.3	3.8
30°-40°	640.6	6.2
40°-50°	1177.7	11.4
50°-60°	2529.1	24.6
60°-70°	3397.0	33.0
70°-80°	1768.9	17.2
80°-90°	167.7	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°	10298.4	100.0
0°-180°	10298.4	100.0

Coefficient of Utilization



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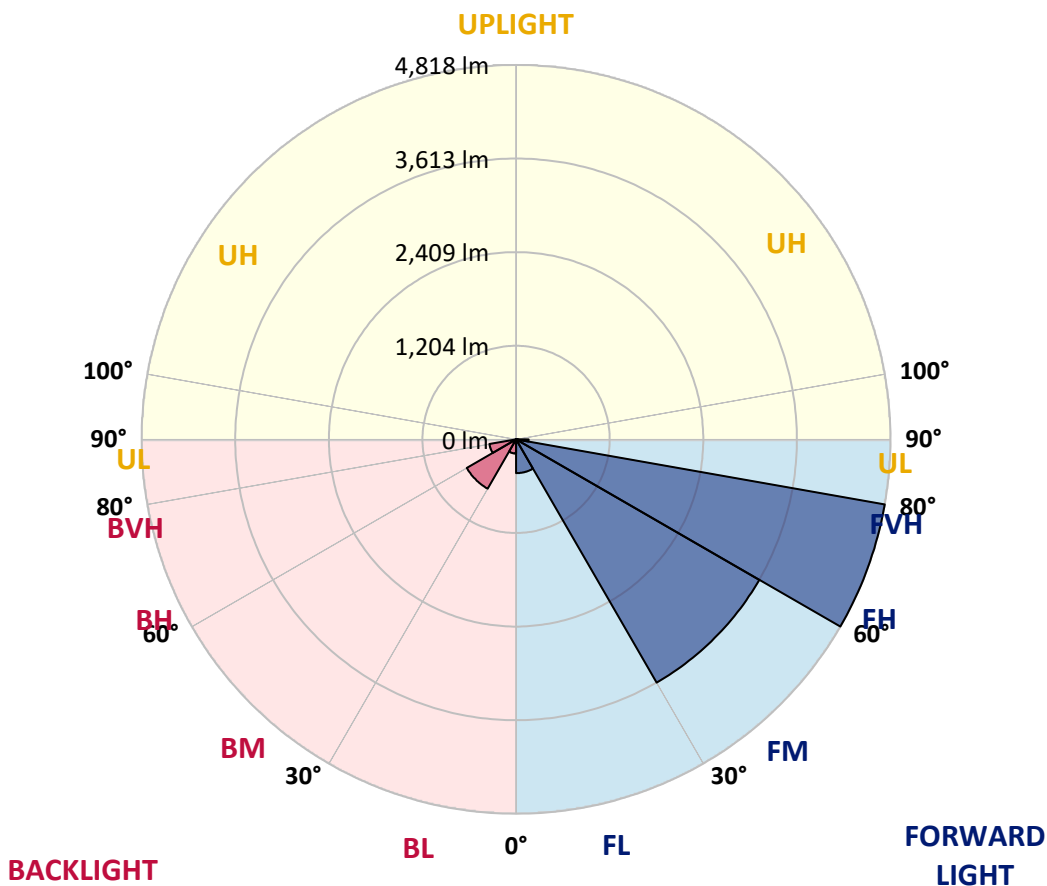
CATALOG NUMBER: GWS-SA2F-750-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	435.1	4.2			
FM (30°-60°)	3614.6	35.1			
FH (60°-80°)	4817.7	46.8			G2/5000
FVH (80°-90°)	160.2	1.6			G2/225
BL (0°-30°)	182.3	1.8	B1/500		
BM (30°-60°)	732.8	7.1	B1/1000		
BH (60°-80°)	348.2	3.4	B1/500		G1/500
BVH (80°-90°)	7.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3
2.5°	546.0	548.4	550.8	559.1	565.0	569.8	571.0	567.4	559.1	550.8	538.9
5°	529.4	531.7	540.1	562.7	585.3	603.1	609.1	605.5	585.3	559.1	531.7
7.5°	528.2	532.9	553.1	600.7	649.5	686.4	695.9	687.6	649.5	597.2	541.2
10°	571.0	579.3	609.1	694.7	783.9	849.3	875.5	839.8	779.2	684.0	592.4
12.5°	682.8	697.1	754.2	879.1	1017.1	1103.9	1139.6	1095.6	1000.4	862.4	717.3
15°	858.9	880.3	965.9	1152.7	1315.7	1393.0	1404.9	1379.9	1269.3	1117.0	921.9
17.5°	1107.5	1138.4	1271.6	1462.0	1579.7	1607.1	1603.5	1577.4	1496.5	1391.8	1207.4
20°	1404.9	1441.7	1572.6	1729.6	1741.5	1709.4	1691.6	1676.1	1648.7	1630.9	1486.9
22.5°	1704.6	1749.8	1886.6	1925.9	1818.8	1726.0	1682.0	1693.9	1734.4	1822.4	1764.1
25°	2003.2	2046.0	2174.5	2068.6	1854.5	1699.9	1644.0	1672.5	1768.9	1959.2	2034.1
27.5°	2351.8	2383.9	2460.0	2166.2	1860.5	1678.5	1623.7	1667.8	1785.5	2044.9	2330.3
30°	2714.6	2733.6	2696.7	2192.4	1840.2	1646.3	1603.5	1667.8	1814.1	2101.9	2552.8
32.5°	2981.0	2984.6	2864.5	2194.7	1829.5	1620.2	1584.5	1660.6	1841.4	2149.5	2768.1
35°	3255.8	3238.0	3025.0	2230.4	1858.1	1629.7	1598.8	1680.8	1884.3	2205.4	2957.2
37.5°	3534.2	3502.1	3204.7	2288.7	1931.8	1733.2	1714.2	1784.3	1953.3	2282.8	3165.4
40°	3819.7	3775.7	3391.4	2376.7	2096.0	2085.3	2150.7	2142.4	2142.4	2381.5	3379.5
42.5°	4168.2	4117.1	3667.4	2625.4	2479.0	2718.1	2896.6	2785.9	2581.3	2608.7	3657.9
45°	4628.6	4584.6	4145.6	3101.2	3079.8	3629.3	3869.6	3650.8	3141.6	3133.3	4123.0
47.5°	5364.9	5356.6	4908.1	3653.1	3814.9	4789.2	5253.1	4832.0	3780.4	3688.8	5003.3
50°	6399.8	6374.8	5858.6	4300.3	4689.2	6226.1	7054.1	6352.2	4552.4	4337.1	6182.1
52.5°	7565.6	7591.8	7189.7	5006.9	5618.3	7824.9	8977.6	8093.8	5391.1	5161.5	7665.5
55°	8663.6	8813.4	8707.6	5833.6	6525.9	9590.2	11090.3	10004.2	6429.6	6240.4	9328.5
57.5°	9522.4	9944.7	10687.0	7035.0	7593.0	11655.3	13449.1	12075.2	7641.7	7992.6	11592.2
60°	9570.0	10129.1	11852.8	9548.6	8965.7	13426.5	15804.5	14098.6	9547.4	10967.7	13365.9
62.5°	8852.7	9452.2	11093.8	10690.6	10461.0	14933.7	17013.1	15573.7	11422.1	12710.4	12840.1
65°	8031.9	8637.4	10246.9	9395.1	10287.3	14869.5	16706.2	15608.2	11592.2	11525.6	11899.2
67.5°	6791.2	7334.8	8792.0	8316.2	9482.0	14152.2	15288.2	14624.4	10679.9	10779.8	10946.3
70°	4956.9	5480.3	6832.8	6856.6	8280.5	12859.1	13136.3	13044.7	9835.3	9941.1	9465.3
72.5°	3580.6	4021.9	5188.9	5623.0	6610.4	10783.3	10591.8	10945.1	8438.7	8853.9	7602.5
75°	2574.2	2904.9	3806.6	4891.5	5240.0	8008.1	7582.2	8476.8	6771.0	7623.9	5715.8
77.5°	1044.4	1161.0	1497.7	3295.1	3443.8	5387.5	4641.7	6157.2	4827.2	5009.2	2770.5
80°	42.8	47.6	61.9	1701.1	2361.3	3031.0	2483.8	3291.5	3188.0	2017.5	654.3
82.5°	4.8	4.8	10.7	490.1	1033.7	1672.5	1170.5	1896.2	1614.2	855.3	297.4
85°	1.2	1.2	2.4	55.9	242.7	267.7	158.2	581.7	750.6	349.7	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	10.7	11.9	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°	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3
2.5°	538.9	532.9	525.8	518.6	515.1	505.6	502.0	499.6	497.2	498.4	498.4
5°	521.0	507.9	492.5	477.0	468.7	459.2	454.4	452.0	453.2	458.0	458.0
7.5°	518.6	493.7	460.4	440.1	430.6	423.5	418.7	416.3	417.5	423.5	425.9
10°	557.9	513.9	454.4	419.9	409.2	402.1	397.3	393.7	391.4	396.1	397.3
12.5°	642.4	581.7	483.0	417.5	398.5	389.0	385.4	378.3	374.7	377.1	378.3
15°	817.2	712.5	540.1	427.1	389.0	378.3	372.3	366.4	360.4	359.2	360.4
17.5°	1045.6	895.7	626.9	449.7	381.8	368.8	360.4	352.1	343.8	342.6	341.4
20°	1328.7	1120.6	748.2	485.3	375.9	360.4	348.5	336.6	325.9	322.4	322.4
22.5°	1586.9	1391.8	904.1	529.4	367.6	348.5	334.3	320.0	308.1	302.1	301.0
25°	1902.1	1679.7	1090.8	580.5	355.7	333.1	317.6	303.3	291.4	284.3	281.9
27.5°	2219.7	1983.0	1302.6	647.1	341.4	317.6	303.3	290.3	277.2	268.8	266.5
30°	2527.8	2310.1	1540.5	730.4	330.7	302.1	290.3	277.2	265.3	252.2	248.6
32.5°	2858.5	2644.4	1806.9	823.2	322.4	291.4	278.4	266.5	251.0	239.1	233.2
35°	3177.3	2989.4	2100.8	913.6	314.0	281.9	267.7	255.8	239.1	226.0	217.7
37.5°	3498.5	3340.3	2407.7	968.3	302.1	268.8	255.8	246.2	227.2	211.7	202.2
40°	3838.7	3703.1	2739.6	945.7	291.4	254.6	247.4	236.7	215.3	197.5	185.6
42.5°	4212.2	4049.3	3077.4	858.9	281.9	242.7	235.5	224.8	204.6	183.2	167.7
45°	4682.1	4428.7	3354.6	728.0	286.7	230.8	216.5	214.1	195.1	167.7	148.7
47.5°	5489.8	5011.6	3569.9	643.6	318.8	217.7	201.0	207.0	186.8	152.3	130.9
50°	6725.8	5977.5	3770.9	637.6	367.6	211.7	186.8	202.2	178.4	136.8	115.4
52.5°	7903.4	6958.9	3899.4	689.9	410.4	227.2	172.5	196.3	172.5	126.1	104.7
55°	9029.9	7525.1	3669.8	728.0	450.8	273.6	161.8	186.8	165.3	120.1	101.1
57.5°	10244.5	7777.3	2889.4	805.3	479.4	312.9	164.2	172.5	155.8	116.6	99.9
60°	10607.3	7455.0	1743.9	906.4	463.9	324.7	182.0	153.5	142.7	109.4	96.4
62.5°	10043.4	6690.1	1029.0	825.6	450.8	306.9	208.2	141.6	129.7	99.9	89.2
65°	9200.0	5651.6	670.9	697.1	478.2	273.6	221.3	135.6	117.8	90.4	78.5
67.5°	8236.5	4552.4	469.9	411.6	441.3	246.2	186.8	134.4	105.9	76.1	64.2
70°	6937.5	3409.3	330.7	272.4	367.6	218.9	145.1	130.9	92.8	61.9	50.0
72.5°	5360.1	2134.1	246.2	176.1	261.7	178.4	115.4	110.6	74.9	51.2	38.1
75°	3952.9	1216.9	173.7	127.3	172.5	135.6	85.6	78.5	64.2	48.8	34.5
77.5°	2063.9	609.1	108.2	97.5	98.7	84.5	61.9	57.1	59.5	48.8	32.1
80°	396.1	121.3	65.4	71.4	53.5	53.5	45.2	47.6	52.3	39.3	27.4
82.5°	165.3	26.2	35.7	40.4	33.3	36.9	36.9	38.1	36.9	28.5	20.2
85°	0.0	0.0	15.5	16.7	22.6	22.6	19.0	19.0	19.0	16.7	11.9
87.5°	0.0	0.0	0.0	0.0	1.2	3.6	7.1	8.3	9.5	7.1	4.8
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°	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3
2.5°	497.2	494.9	498.4	500.8	503.2	503.2	500.8	498.4	494.9	498.4	494.9
5°	459.2	462.7	468.7	471.1	473.4	468.7	466.3	459.2	453.2	454.4	452.0
7.5°	429.4	433.0	440.1	444.9	444.9	442.5	435.4	428.2	418.7	418.7	417.5
10°	402.1	406.8	415.2	421.1	423.5	421.1	414.0	404.4	396.1	396.1	392.6
12.5°	379.5	385.4	394.9	403.3	405.6	403.3	396.1	386.6	377.1	377.1	374.7
15°	360.4	367.6	378.3	387.8	391.4	387.8	379.5	367.6	358.1	359.2	355.7
17.5°	342.6	348.5	362.8	373.5	377.1	373.5	362.8	347.4	337.8	340.2	337.8
20°	322.4	329.5	343.8	355.7	359.2	355.7	343.8	327.1	317.6	317.6	318.8
22.5°	301.0	308.1	322.4	330.7	335.5	331.9	320.0	304.5	295.0	295.0	296.2
25°	281.9	285.5	296.2	304.5	305.7	302.1	292.6	280.7	273.6	277.2	278.4
27.5°	264.1	264.1	268.8	273.6	272.4	268.8	265.3	255.8	254.6	258.1	261.7
30°	245.0	239.1	236.7	233.2	232.0	230.8	234.3	234.3	236.7	241.5	245.0
32.5°	228.4	216.5	205.8	195.1	189.1	193.9	203.4	211.7	220.1	227.2	230.8
35°	209.4	190.3	172.5	158.2	148.7	155.8	171.3	186.8	201.0	210.6	216.5
37.5°	190.3	163.0	141.6	123.7	116.6	122.5	139.2	160.6	182.0	193.9	202.2
40°	170.1	135.6	110.6	96.4	89.2	95.2	111.8	133.2	161.8	177.2	188.0
42.5°	149.9	111.8	89.2	74.9	71.4	74.9	88.0	109.4	140.4	159.4	173.7
45°	129.7	92.8	71.4	60.7	57.1	60.7	71.4	89.2	120.1	141.6	158.2
47.5°	111.8	78.5	59.5	50.0	47.6	51.2	59.5	74.9	101.1	122.5	141.6
50°	97.5	69.0	51.2	42.8	40.4	44.0	51.2	63.0	85.6	104.7	124.9
52.5°	88.0	64.2	45.2	36.9	35.7	38.1	44.0	53.5	72.6	89.2	108.2
55°	85.6	64.2	41.6	33.3	32.1	34.5	39.3	46.4	63.0	77.3	94.0
57.5°	88.0	69.0	39.3	28.5	27.4	29.7	34.5	40.4	54.7	66.6	82.1
60°	88.0	70.2	34.5	22.6	21.4	23.8	28.5	35.7	48.8	58.3	71.4
62.5°	79.7	64.2	28.5	17.8	15.5	17.8	23.8	29.7	42.8	52.3	63.0
65°	69.0	54.7	23.8	13.1	10.7	13.1	19.0	25.0	36.9	45.2	57.1
67.5°	55.9	41.6	17.8	9.5	7.1	9.5	14.3	20.2	30.9	39.3	51.2
70°	41.6	29.7	14.3	8.3	7.1	8.3	13.1	19.0	27.4	35.7	47.6
72.5°	30.9	20.2	11.9	8.3	5.9	8.3	11.9	17.8	26.2	34.5	45.2
75°	26.2	16.7	10.7	7.1	5.9	7.1	10.7	16.7	23.8	32.1	42.8
77.5°	25.0	15.5	9.5	5.9	4.8	5.9	9.5	14.3	21.4	29.7	41.6
80°	21.4	13.1	8.3	4.8	3.6	4.8	8.3	11.9	16.7	22.6	32.1
82.5°	16.7	10.7	5.9	2.4	1.2	2.4	5.9	7.1	10.7	13.1	19.0
85°	10.7	5.9	2.4	0.0	0.0	0.0	2.4	4.8	4.8	5.9	9.5
87.5°	4.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.4	3.6
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°	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3
2.5°	502.0	503.2	505.6	509.1	517.5	524.6	531.7	541.2	546.0	546.0
5°	454.4	455.6	456.8	461.5	473.4	483.0	498.4	517.5	527.0	529.4
7.5°	417.5	419.9	422.3	425.9	437.8	450.8	471.1	506.8	524.6	528.2
10°	396.1	399.7	404.4	411.6	422.3	436.6	471.1	535.3	565.0	571.0
12.5°	379.5	385.4	390.2	398.5	411.6	434.2	503.2	616.2	668.5	682.8
15°	362.8	370.0	377.1	385.4	399.7	442.5	565.0	761.3	848.2	858.9
17.5°	346.2	354.5	364.0	373.5	391.4	462.7	662.6	962.4	1083.7	1107.5
20°	327.1	337.8	350.9	362.8	383.0	494.9	798.2	1201.5	1353.7	1404.9
22.5°	306.9	320.0	335.5	350.9	373.5	534.1	962.4	1458.4	1671.3	1704.6
25°	290.3	303.3	317.6	333.1	358.1	581.7	1161.0	1777.2	1971.1	2003.2
27.5°	274.8	287.9	301.0	315.2	342.6	643.6	1400.1	2116.2	2318.4	2351.8
30°	258.1	273.6	286.7	301.0	328.3	719.7	1676.1	2492.1	2683.6	2714.6
32.5°	243.9	259.3	272.4	286.7	317.6	803.0	1966.3	2825.2	2981.0	2981.0
35°	232.0	248.6	258.1	277.2	309.3	856.5	2241.1	3142.8	3260.6	3255.8
37.5°	218.9	239.1	246.2	259.3	298.6	862.4	2499.3	3478.3	3565.1	3534.2
40°	205.8	227.2	237.9	245.0	286.7	813.7	2782.4	3786.4	3860.1	3819.7
42.5°	193.9	210.6	226.0	234.3	279.5	728.0	3009.6	4115.9	4203.9	4168.2
45°	182.0	196.3	205.8	221.3	284.3	668.5	3204.7	4500.1	4654.7	4628.6
47.5°	170.1	182.0	188.0	211.7	316.4	641.2	3323.6	5094.9	5386.3	5364.9
50°	157.0	171.3	171.3	209.4	364.0	650.7	3427.1	5956.1	6407.0	6399.8
52.5°	143.9	159.4	157.0	227.2	400.9	694.7	3544.9	6716.2	7500.2	7565.6
55°	130.9	145.1	147.5	262.9	422.3	732.8	3089.3	7036.2	8434.0	8663.6
57.5°	116.6	124.9	153.5	290.3	415.2	843.4	2116.2	7094.5	9029.9	9522.4
60°	101.1	108.2	173.7	284.3	392.6	779.2	1332.3	6571.1	8945.5	9570.0
62.5°	88.0	99.9	183.2	251.0	399.7	675.7	849.3	5600.4	8140.1	8852.7
65°	77.3	96.4	166.5	227.2	404.4	458.0	573.4	4556.0	7353.8	8031.9
67.5°	69.0	107.1	136.8	202.2	347.4	322.4	393.7	3540.1	6183.3	6791.2
70°	63.0	109.4	111.8	173.7	268.8	207.0	259.3	2382.7	4262.2	4956.9
72.5°	57.1	80.9	84.5	139.2	173.7	126.1	167.7	1363.2	3107.1	3580.6
75°	54.7	54.7	58.3	90.4	96.4	91.6	108.2	813.7	2228.0	2574.2
77.5°	51.2	41.6	36.9	58.3	52.3	65.4	64.2	361.6	965.9	1044.4
80°	40.4	29.7	25.0	36.9	35.7	44.0	38.1	29.7	44.0	42.8
82.5°	25.0	19.0	17.8	22.6	20.2	22.6	17.8	4.8	4.8	4.8
85°	11.9	10.7	9.5	9.5	10.7	9.5	7.1	2.4	1.2	1.2
87.5°	5.9	5.9	4.8	3.6	4.8	4.8	3.6	1.2	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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