

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: P637880

Luminaire Tested: GWS-SA4D-760-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637880
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-SA4D-760-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15332.9 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

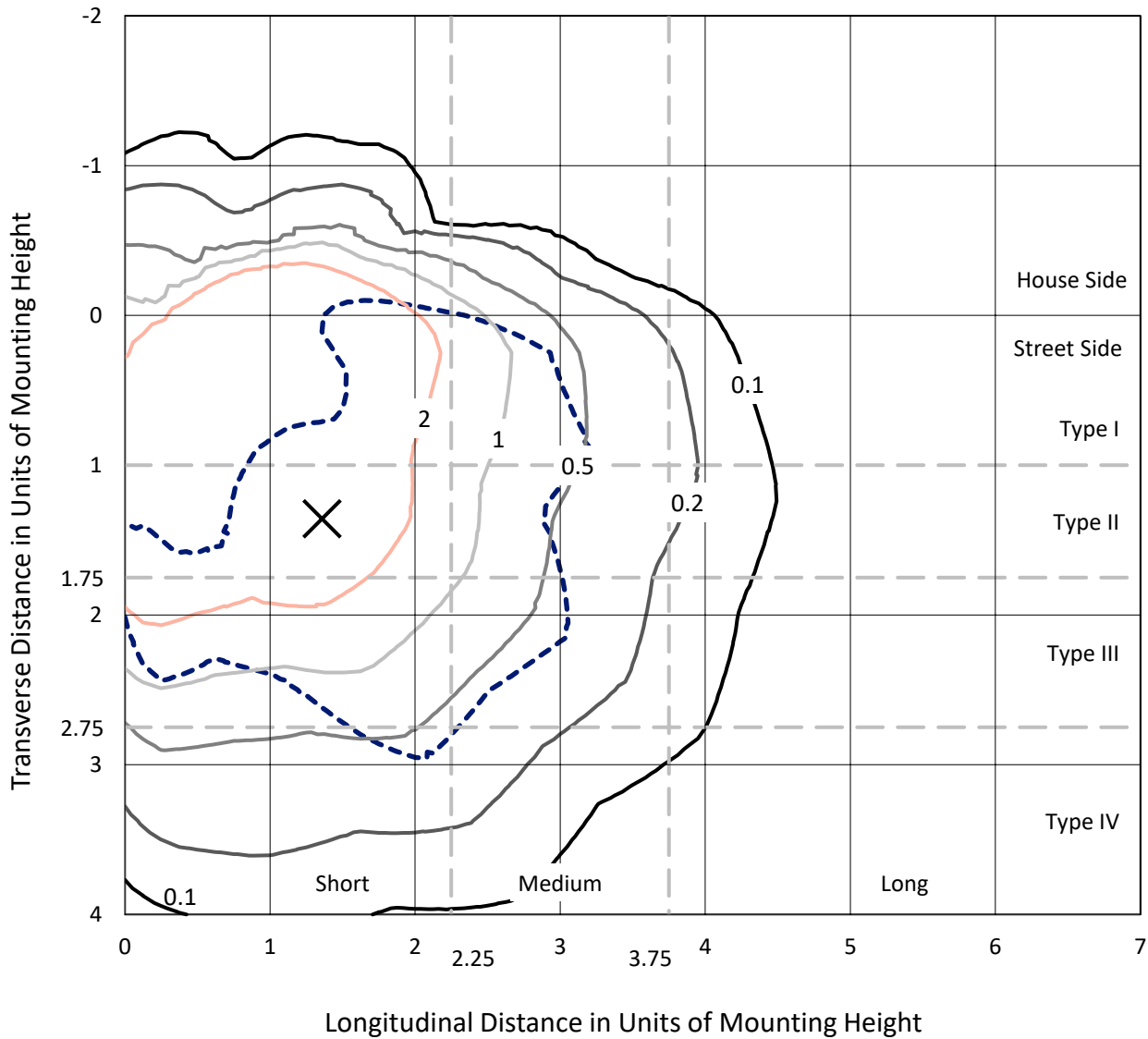
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

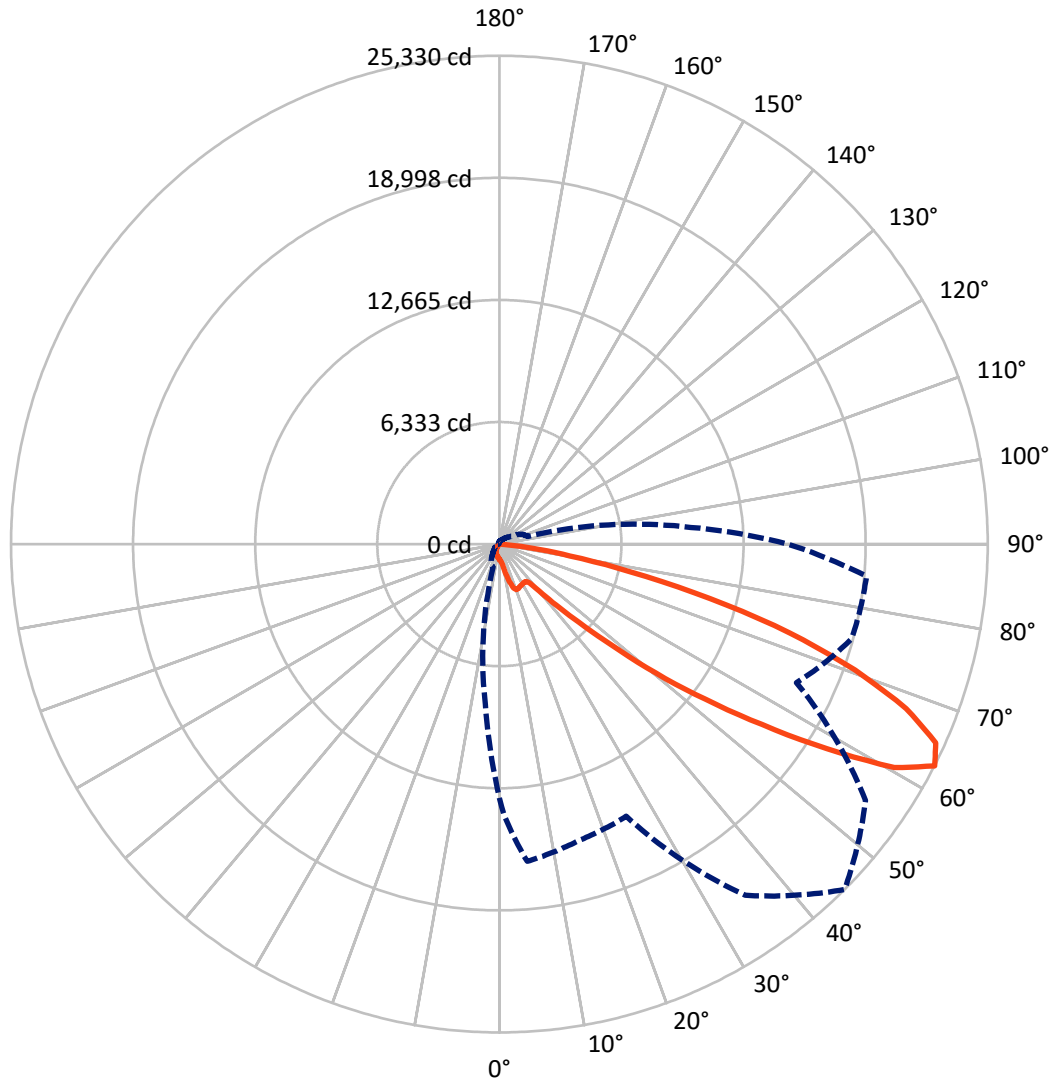
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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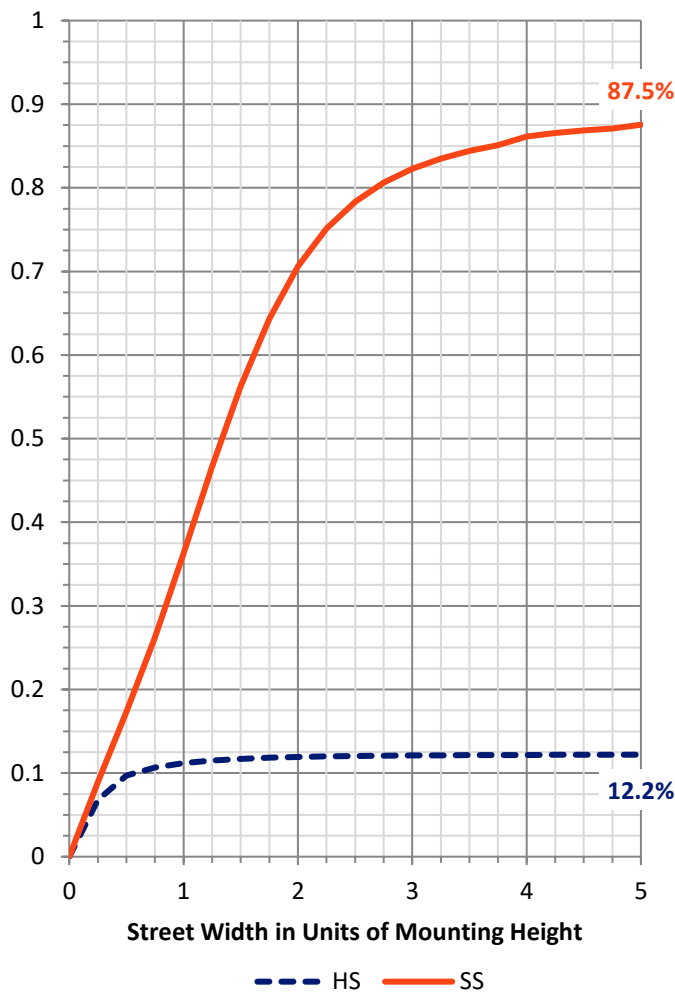
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1892.1	0.0	1892.1
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	13440.9	0.0	13440.9
	% Fixture	87.7	0.0	87.7
Total	Lumens	15332.9	0.0	15332.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	0.5
10°-20°	267.3	1.7
20°-30°	581.1	3.8
30°-40°	953.8	6.2
40°-50°	1753.4	11.4
50°-60°	3765.5	24.6
60°-70°	5057.7	33.0
70°-80°	2633.6	17.2
80°-90°	249.7	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°	15332.9	100.0
0°-180°	15332.9	100.0

Coefficient of Utilization



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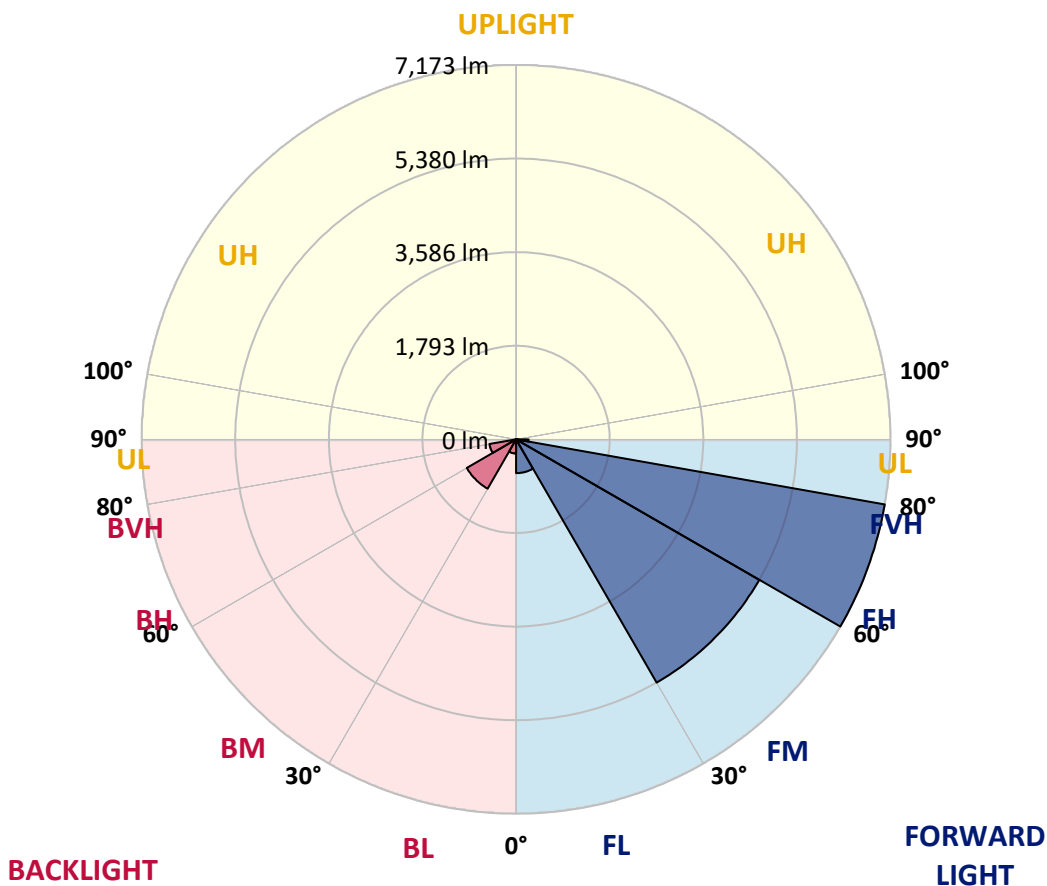
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	647.7	4.2			
FM (30°-60°)	5381.7	35.1			
FH (60°-80°)	7172.9	46.8			G3/7500
FVH (80°-90°)	238.6	1.6			G3/500
BL (0°-30°)	271.4	1.8	B1/500		
BM (30°-60°)	1091.1	7.1	B2/2500		
BH (60°-80°)	518.4	3.4	B2/1000		G2/1000
BVH (80°-90°)	11.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0
2.5°	812.9	816.5	820.0	832.4	841.3	848.4	850.1	844.8	832.4	820.0	802.3
5°	788.1	791.7	804.1	837.7	871.4	897.9	906.8	901.5	871.4	832.4	791.7
7.5°	786.4	793.4	823.6	894.4	967.0	1021.9	1036.1	1023.7	967.0	889.1	805.8
10°	850.1	862.5	906.8	1034.3	1167.1	1264.6	1303.5	1250.4	1160.1	1018.4	882.0
12.5°	1016.6	1037.9	1122.9	1308.8	1514.3	1643.6	1696.7	1631.2	1489.5	1284.0	1068.0
15°	1278.7	1310.6	1438.1	1716.2	1958.8	2073.9	2091.7	2054.5	1889.8	1663.1	1372.6
17.5°	1648.9	1694.9	1893.3	2176.7	2352.0	2392.7	2387.4	2348.5	2228.0	2072.2	1797.7
20°	2091.7	2146.6	2341.4	2575.2	2592.9	2545.1	2518.5	2495.5	2454.7	2428.2	2213.9
22.5°	2538.0	2605.3	2808.9	2867.4	2708.0	2569.8	2504.3	2522.0	2582.2	2713.3	2626.5
25°	2982.5	3046.3	3237.5	3079.9	2761.1	2530.9	2447.6	2490.2	2633.6	2917.0	3028.6
27.5°	3501.4	3549.3	3662.6	3225.2	2770.0	2499.0	2417.5	2483.1	2658.4	3044.5	3469.6
30°	4041.6	4070.0	4015.1	3264.1	2739.9	2451.2	2387.4	2483.1	2700.9	3129.5	3800.8
32.5°	4438.3	4443.7	4264.8	3267.7	2723.9	2412.2	2359.1	2472.4	2741.6	3200.4	4121.3
35°	4847.5	4820.9	4503.9	3320.8	2766.4	2426.4	2380.3	2502.5	2805.4	3283.6	4402.9
37.5°	5261.9	5214.1	4771.3	3407.6	2876.2	2580.5	2552.1	2656.6	2908.1	3398.7	4712.9
40°	5687.0	5621.4	5049.4	3538.6	3120.7	3104.7	3202.1	3189.7	3189.7	3545.7	5031.7
42.5°	6205.9	6129.7	5460.3	3908.8	3690.9	4046.9	4312.6	4147.9	3843.3	3884.0	5446.1
45°	6891.3	6825.8	6172.2	4617.2	4585.3	5403.6	5761.4	5435.5	4677.4	4665.0	6138.6
47.5°	7987.6	7975.2	7307.5	5439.0	5679.9	7130.4	7821.1	7194.2	5628.5	5492.1	7449.2
50°	9528.5	9491.3	8722.6	6402.5	6981.6	9269.9	10502.6	9457.6	6778.0	6457.4	9204.3
52.5°	11264.1	11303.1	10704.5	7454.5	8364.9	11650.2	13366.4	12050.5	8026.6	7684.8	11412.9
55°	12898.8	13122.0	12964.4	8685.4	9716.2	14278.5	16511.9	14894.9	9572.7	9291.1	13888.9
57.5°	14177.6	14806.3	15911.5	10474.2	11304.9	17353.1	20023.9	17978.3	11377.5	11899.9	17259.3
60°	14248.4	15080.8	17647.1	14216.5	13348.7	19990.3	23530.7	20990.9	14214.8	16329.4	19900.0
62.5°	13180.4	14073.1	16517.2	15916.8	15575.0	22234.2	25330.1	23187.1	17006.0	18924.1	19117.1
65°	11958.4	12859.9	15256.2	13988.1	15316.4	22138.6	24873.2	23238.5	17259.3	17160.1	17716.2
67.5°	10111.1	10920.5	13090.1	12381.7	14117.3	21070.6	22762.0	21773.8	15900.8	16049.6	16297.6
70°	7380.1	8159.4	10173.1	10208.6	12328.5	19145.5	19558.1	19421.8	14643.4	14801.0	14092.6
72.5°	5331.0	5988.1	7725.5	8371.9	9841.9	16054.9	15769.8	16295.8	12564.1	13182.2	11319.0
75°	3832.6	4325.0	5667.5	7282.7	7801.6	11923.0	11288.9	12620.8	10081.0	11350.9	8510.1
77.5°	1555.0	1728.6	2229.8	4905.9	5127.3	8021.3	6910.8	9167.2	7187.1	7458.1	4124.9
80°	63.8	70.8	92.1	2532.7	3515.6	4512.7	3698.0	4900.6	4746.5	3003.8	974.1
82.5°	7.1	7.1	15.9	729.7	1539.1	2490.2	1742.8	2823.1	2403.4	1273.4	442.8
85°	1.8	1.8	3.5	83.2	361.3	398.5	235.6	866.1	1117.6	520.7	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	15.9	17.7	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°	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0
2.5°	802.3	793.4	782.8	772.2	766.9	752.7	747.4	743.9	740.3	742.1	742.1
5°	775.7	756.3	733.2	710.2	697.8	683.6	676.6	673.0	674.8	681.9	681.9
7.5°	772.2	735.0	685.4	655.3	641.1	630.5	623.4	619.9	621.7	630.5	634.0
10°	830.6	765.1	676.6	625.2	609.3	598.6	591.5	586.2	582.7	589.8	591.5
12.5°	956.4	866.1	719.1	621.7	593.3	579.1	573.8	563.2	557.9	561.4	563.2
15°	1216.7	1060.9	804.1	635.8	579.1	563.2	554.4	545.5	536.6	534.9	536.6
17.5°	1556.8	1333.6	933.4	669.5	568.5	549.0	536.6	524.2	511.8	510.1	508.3
20°	1978.3	1668.4	1114.0	722.6	559.7	536.6	518.9	501.2	485.3	480.0	480.0
22.5°	2362.6	2072.2	1346.0	788.1	547.3	518.9	497.7	476.4	458.7	449.9	448.1
25°	2832.0	2500.8	1624.1	864.3	529.6	495.9	472.9	451.6	433.9	423.3	419.7
27.5°	3304.9	2952.4	1939.3	963.5	508.3	472.9	451.6	432.1	412.7	400.3	396.7
30°	3763.6	3439.5	2293.6	1087.4	492.4	449.9	432.1	412.7	395.0	375.5	370.2
32.5°	4255.9	3937.1	2690.3	1225.6	480.0	433.9	414.4	396.7	373.7	356.0	347.1
35°	4730.6	4450.7	3127.7	1360.2	467.6	419.7	398.5	380.8	356.0	336.5	324.1
37.5°	5208.8	4973.2	3584.7	1441.7	449.9	400.3	380.8	366.6	338.3	315.3	301.1
40°	5715.3	5513.4	4078.8	1408.0	433.9	379.0	368.4	352.4	320.6	294.0	276.3
42.5°	6271.4	6028.8	4581.8	1278.7	419.7	361.3	350.7	334.7	304.6	272.7	249.7
45°	6971.0	6593.8	4994.5	1083.9	426.8	343.6	322.3	318.8	290.5	249.7	221.4
47.5°	8173.6	7461.6	5315.0	958.2	474.7	324.1	299.3	308.2	278.1	226.7	194.8
50°	10013.7	8899.7	5614.4	949.3	547.3	315.3	278.1	301.1	265.7	203.7	171.8
52.5°	11767.1	10360.9	5805.6	1027.2	611.0	338.3	256.8	292.2	256.8	187.7	155.9
55°	13444.3	11203.9	5463.8	1083.9	671.2	407.4	240.9	278.1	246.2	178.9	150.5
57.5°	15252.6	11579.4	4302.0	1199.0	713.7	465.8	244.4	256.8	232.0	173.6	148.8
60°	15792.8	11099.4	2596.4	1349.6	690.7	483.5	271.0	228.5	212.5	162.9	143.5
62.5°	14953.3	9960.6	1532.0	1229.1	671.2	456.9	309.9	210.8	193.0	148.8	132.8
65°	13697.6	8414.4	998.9	1037.9	712.0	407.4	329.4	201.9	175.3	134.6	116.9
67.5°	12263.0	6778.0	699.6	612.8	657.1	366.6	278.1	200.1	157.6	113.3	95.6
70°	10329.0	5075.9	492.4	405.6	547.3	325.9	216.1	194.8	138.1	92.1	74.4
72.5°	7980.5	3177.3	366.6	262.1	389.6	265.7	171.8	164.7	111.6	76.2	56.7
75°	5885.3	1811.8	258.6	189.5	256.8	201.9	127.5	116.9	95.6	72.6	51.4
77.5°	3072.8	906.8	161.2	145.2	147.0	125.7	92.1	85.0	88.6	72.6	47.8
80°	589.8	180.7	97.4	106.3	79.7	79.7	67.3	70.8	77.9	58.4	40.7
82.5°	246.2	39.0	53.1	60.2	49.6	54.9	54.9	56.7	54.9	42.5	30.1
85°	0.0	0.0	23.0	24.8	33.7	33.7	28.3	28.3	28.3	24.8	17.7
87.5°	0.0	0.0	0.0	0.0	1.8	5.3	10.6	12.4	14.2	10.6	7.1
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°	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0
2.5°	740.3	736.8	742.1	745.6	749.2	749.2	745.6	742.1	736.8	742.1	736.8
5°	683.6	689.0	697.8	701.4	704.9	697.8	694.3	683.6	674.8	676.6	673.0
7.5°	639.4	644.7	655.3	662.4	662.4	658.8	648.2	637.6	623.4	623.4	621.7
10°	598.6	605.7	618.1	627.0	630.5	627.0	616.3	602.2	589.8	589.8	584.5
12.5°	565.0	573.8	588.0	600.4	603.9	600.4	589.8	575.6	561.4	561.4	557.9
15°	536.6	547.3	563.2	577.4	582.7	577.4	565.0	547.3	533.1	534.9	529.6
17.5°	510.1	518.9	540.2	556.1	561.4	556.1	540.2	517.2	503.0	506.5	503.0
20°	480.0	490.6	511.8	529.6	534.9	529.6	511.8	487.0	472.9	472.9	474.7
22.5°	448.1	458.7	480.0	492.4	499.4	494.1	476.4	453.4	439.2	439.2	441.0
25°	419.7	425.1	441.0	453.4	455.2	449.9	435.7	418.0	407.4	412.7	414.4
27.5°	393.2	393.2	400.3	407.4	405.6	400.3	395.0	380.8	379.0	384.3	389.6
30°	364.8	356.0	352.4	347.1	345.4	343.6	348.9	348.9	352.4	359.5	364.8
32.5°	340.0	322.3	306.4	290.5	281.6	288.7	302.9	315.3	327.7	338.3	343.6
35°	311.7	283.4	256.8	235.6	221.4	232.0	255.0	278.1	299.3	313.5	322.3
37.5°	283.4	242.6	210.8	184.2	173.6	182.4	207.2	239.1	271.0	288.7	301.1
40°	253.3	201.9	164.7	143.5	132.8	141.7	166.5	198.4	240.9	263.9	279.8
42.5°	223.2	166.5	132.8	111.6	106.3	111.6	131.1	162.9	209.0	237.3	258.6
45°	193.0	138.1	106.3	90.3	85.0	90.3	106.3	132.8	178.9	210.8	235.6
47.5°	166.5	116.9	88.6	74.4	70.8	76.2	88.6	111.6	150.5	182.4	210.8
50°	145.2	102.7	76.2	63.8	60.2	65.5	76.2	93.9	127.5	155.9	186.0
52.5°	131.1	95.6	67.3	54.9	53.1	56.7	65.5	79.7	108.0	132.8	161.2
55°	127.5	95.6	62.0	49.6	47.8	51.4	58.4	69.1	93.9	115.1	139.9
57.5°	131.1	102.7	58.4	42.5	40.7	44.3	51.4	60.2	81.5	99.2	122.2
60°	131.1	104.5	51.4	33.7	31.9	35.4	42.5	53.1	72.6	86.8	106.3
62.5°	118.7	95.6	42.5	26.6	23.0	26.6	35.4	44.3	63.8	77.9	93.9
65°	102.7	81.5	35.4	19.5	15.9	19.5	28.3	37.2	54.9	67.3	85.0
67.5°	83.2	62.0	26.6	14.2	10.6	14.2	21.3	30.1	46.0	58.4	76.2
70°	62.0	44.3	21.3	12.4	10.6	12.4	19.5	28.3	40.7	53.1	70.8
72.5°	46.0	30.1	17.7	12.4	8.9	12.4	17.7	26.6	39.0	51.4	67.3
75°	39.0	24.8	15.9	10.6	8.9	10.6	15.9	24.8	35.4	47.8	63.8
77.5°	37.2	23.0	14.2	8.9	7.1	8.9	14.2	21.3	31.9	44.3	62.0
80°	31.9	19.5	12.4	7.1	5.3	7.1	12.4	17.7	24.8	33.7	47.8
82.5°	24.8	15.9	8.9	3.5	1.8	3.5	8.9	10.6	15.9	19.5	28.3
85°	15.9	8.9	3.5	0.0	0.0	0.0	3.5	7.1	7.1	8.9	14.2
87.5°	7.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.5	5.3
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°	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0	797.0
2.5°	747.4	749.2	752.7	758.0	770.4	781.1	791.7	805.8	812.9	812.9
5°	676.6	678.3	680.1	687.2	704.9	719.1	742.1	770.4	784.6	788.1
7.5°	621.7	625.2	628.7	634.0	651.8	671.2	701.4	754.5	781.1	786.4
10°	589.8	595.1	602.2	612.8	628.7	650.0	701.4	797.0	841.3	850.1
12.5°	565.0	573.8	580.9	593.3	612.8	646.4	749.2	917.4	995.4	1016.6
15°	540.2	550.8	561.4	573.8	595.1	658.8	841.3	1133.5	1262.8	1278.7
17.5°	515.4	527.8	542.0	556.1	582.7	689.0	986.5	1432.8	1613.5	1648.9
20°	487.0	503.0	522.5	540.2	570.3	736.8	1188.4	1788.8	2015.5	2091.7
22.5°	456.9	476.4	499.4	522.5	556.1	795.2	1432.8	2171.4	2488.4	2538.0
25°	432.1	451.6	472.9	495.9	533.1	866.1	1728.6	2646.0	2934.7	2982.5
27.5°	409.1	428.6	448.1	469.3	510.1	958.2	2084.6	3150.8	3451.9	3501.4
30°	384.3	407.4	426.8	448.1	488.8	1071.5	2495.5	3710.4	3995.6	4041.6
32.5°	363.1	386.1	405.6	426.8	472.9	1195.5	2927.6	4206.3	4438.3	4438.3
35°	345.4	370.2	384.3	412.7	460.5	1275.2	3336.7	4679.2	4854.6	4847.5
37.5°	325.9	356.0	366.6	386.1	444.5	1284.0	3721.1	5178.7	5308.0	5261.9
40°	306.4	338.3	354.2	364.8	426.8	1211.4	4142.6	5637.4	5747.2	5687.0
42.5°	288.7	313.5	336.5	348.9	416.2	1083.9	4480.9	6128.0	6259.0	6205.9
45°	271.0	292.2	306.4	329.4	423.3	995.4	4771.3	6700.0	6930.3	6891.3
47.5°	253.3	271.0	279.8	315.3	471.1	954.6	4948.4	7585.6	8019.5	7987.6
50°	233.8	255.0	255.0	311.7	542.0	968.8	5102.5	8867.8	9539.1	9528.5
52.5°	214.3	237.3	233.8	338.3	596.9	1034.3	5277.8	9999.6	11166.7	11264.1
55°	194.8	216.1	219.6	391.4	628.7	1091.0	4599.5	10476.0	12557.0	12898.8
57.5°	173.6	186.0	228.5	432.1	618.1	1255.7	3150.8	10562.8	13444.3	14177.6
60°	150.5	161.2	258.6	423.3	584.5	1160.1	1983.6	9783.5	13318.6	14248.4
62.5°	131.1	148.8	272.7	373.7	595.1	1006.0	1264.6	8338.3	12119.6	13180.4
65°	115.1	143.5	248.0	338.3	602.2	681.9	853.7	6783.3	10948.9	11958.4
67.5°	102.7	159.4	203.7	301.1	517.2	480.0	586.2	5270.8	9206.1	10111.1
70°	93.9	162.9	166.5	258.6	400.3	308.2	386.1	3547.5	6345.8	7380.1
72.5°	85.0	120.4	125.7	207.2	258.6	187.7	249.7	2029.7	4626.1	5331.0
75°	81.5	81.5	86.8	134.6	143.5	136.4	161.2	1211.4	3317.2	3832.6
77.5°	76.2	62.0	54.9	86.8	77.9	97.4	95.6	538.4	1438.1	1555.0
80°	60.2	44.3	37.2	54.9	53.1	65.5	56.7	44.3	65.5	63.8
82.5°	37.2	28.3	26.6	33.7	30.1	33.7	26.6	7.1	7.1	7.1
85°	17.7	15.9	14.2	14.2	15.9	14.2	10.6	3.5	1.8	1.8
87.5°	8.9	8.9	7.1	5.3	7.1	7.1	5.3	1.8	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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