

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: P638265

Luminaire Tested: GWS-SA4E-740-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638265
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-SA4E-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18991.8 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

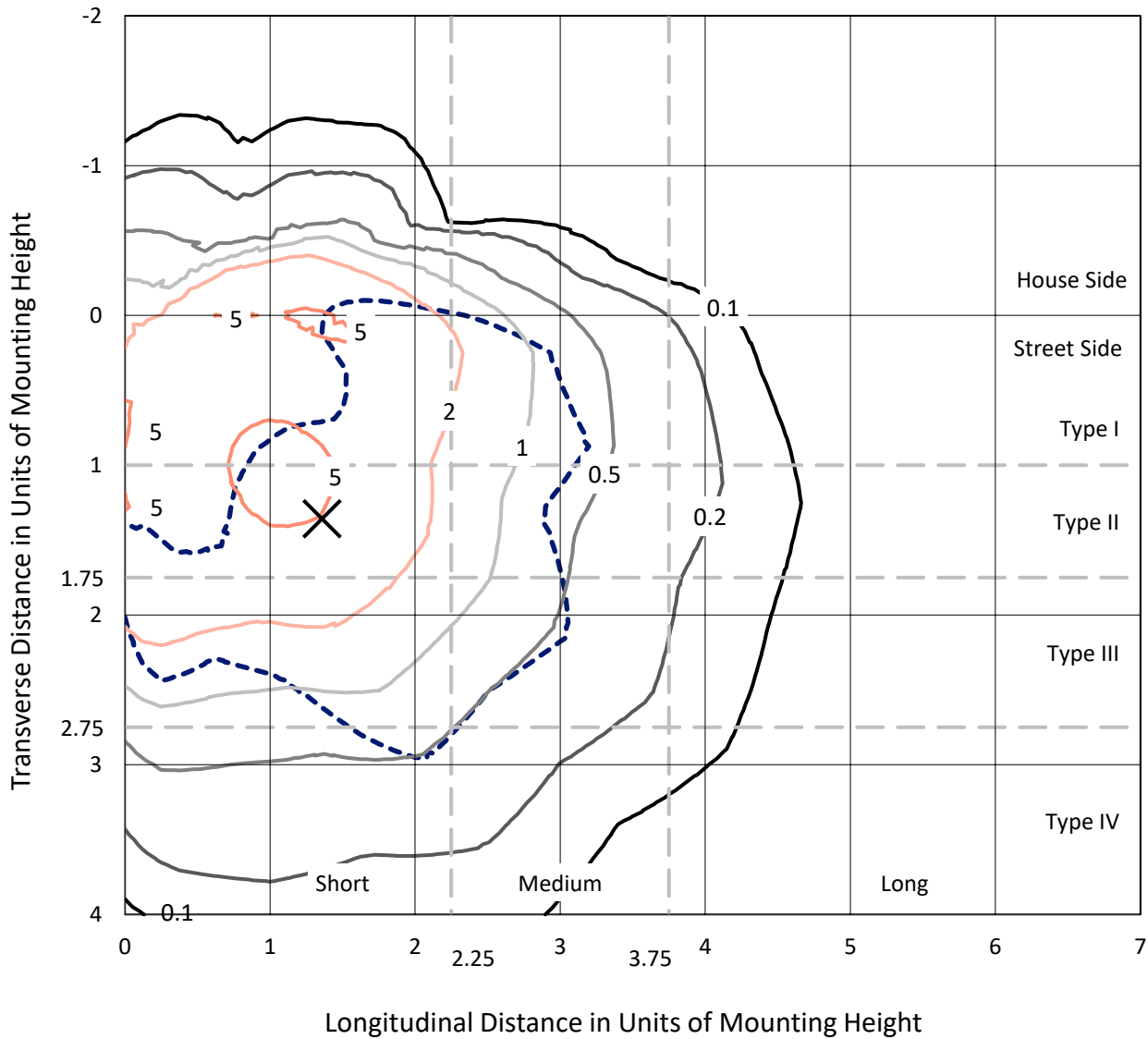
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

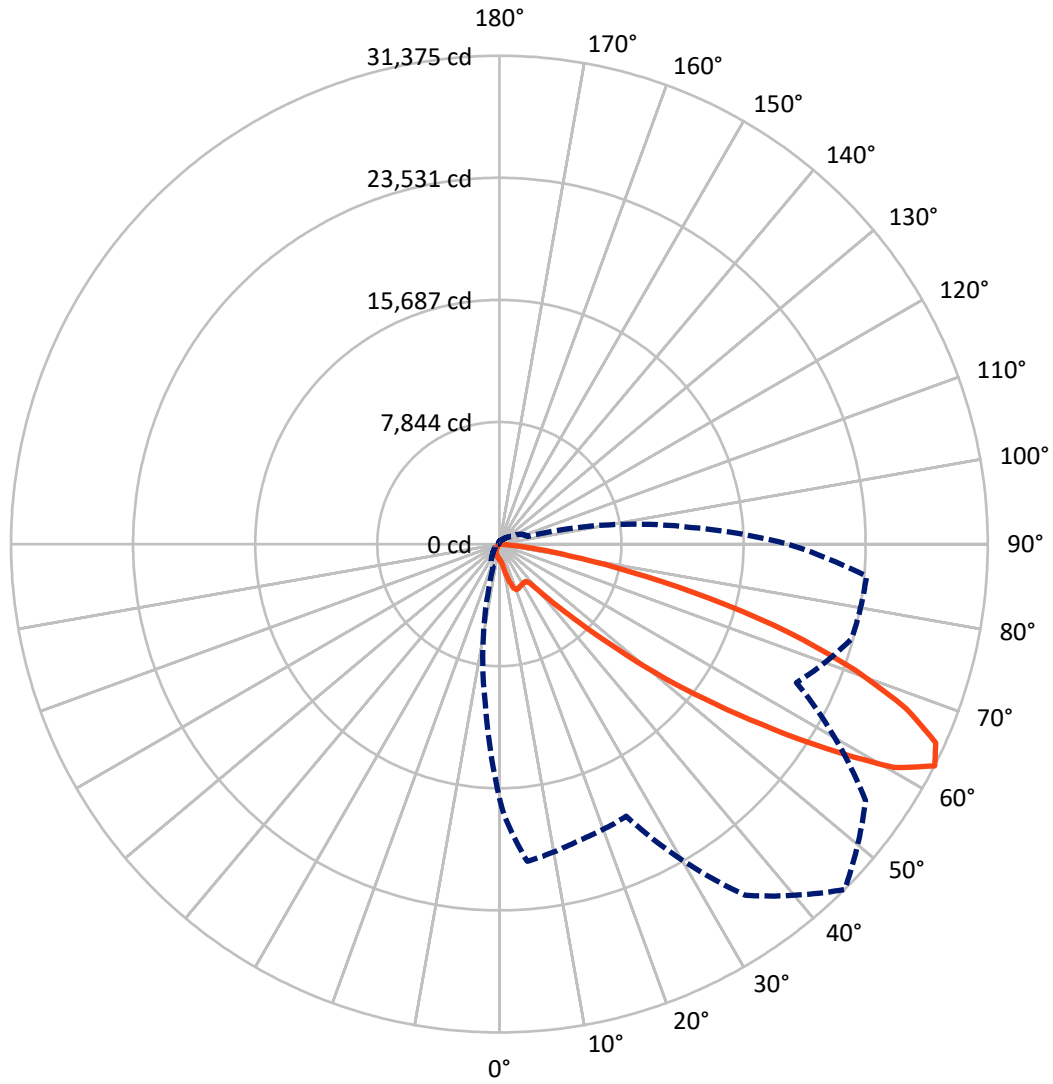
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	2343.6	0.0	2343.6
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	16648.2	0.0	16648.2
	% Fixture	87.7	0.0	87.7
Total	Lumens	18991.8	0.0	18991.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	0.5
10°-20°	331.1	1.7
20°-30°	719.8	3.8
30°-40°	1181.4	6.2
40°-50°	2171.8	11.4
50°-60°	4664.1	24.6
60°-70°	6264.6	33.0
70°-80°	3262.0	17.2
80°-90°	309.3	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°	18991.8	100.0
0°-180°	18991.8	100.0

Coefficient of Utilization

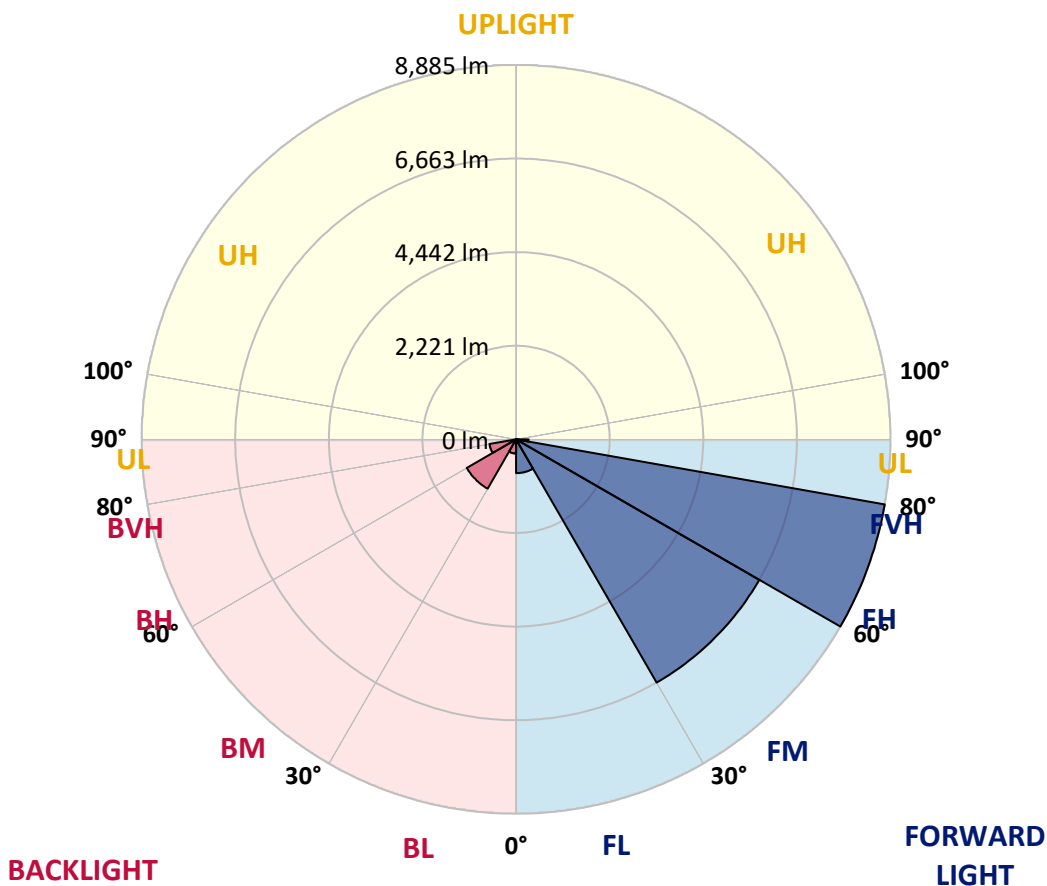


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	802.3	4.2			
FM (30°-60°)	6665.9	35.1			
FH (60°-80°)	8884.5	46.8			G4/12000
FVH (80°-90°)	295.5	1.6			G3/500
BL (0°-30°)	336.2	1.8	B1/500		
BM (30°-60°)	1351.5	7.1	B2/2500		
BH (60°-80°)	642.2	3.4	B2/1000		G2/1000
BVH (80°-90°)	13.8	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-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	987.2	987.2	987.2	987.2	987.2	987.2	987.2	987.2	987.2	987.2	987.2
2.5°	1006.9	1011.3	1015.7	1031.1	1042.0	1050.8	1053.0	1046.4	1031.1	1015.7	993.8
5°	976.2	980.6	996.0	1037.6	1079.3	1112.2	1123.2	1116.6	1079.3	1031.1	980.6
7.5°	974.0	982.8	1020.1	1107.8	1197.8	1265.8	1283.3	1268.0	1197.8	1101.2	998.1
10°	1053.0	1068.3	1123.2	1281.1	1445.7	1566.3	1614.6	1548.8	1436.9	1261.4	1092.5
12.5°	1259.2	1285.5	1390.8	1621.2	1875.6	2035.8	2101.6	2020.4	1844.9	1590.5	1322.8
15°	1583.9	1623.4	1781.3	2125.7	2426.3	2568.9	2590.8	2544.7	2340.7	2059.9	1700.1
17.5°	2042.4	2099.4	2345.1	2696.1	2913.3	2963.7	2957.1	2908.9	2759.7	2566.7	2226.6
20°	2590.8	2658.8	2900.1	3189.7	3211.6	3152.4	3119.5	3091.0	3040.5	3007.6	2742.2
22.5°	3143.6	3227.0	3479.2	3551.6	3354.2	3183.1	3101.9	3123.9	3198.5	3360.8	3253.3
25°	3694.2	3773.2	4010.1	3814.9	3420.0	3134.8	3031.7	3084.4	3262.1	3613.1	3751.3
27.5°	4337.0	4396.2	4536.6	3994.8	3431.0	3095.3	2994.4	3075.6	3292.8	3771.0	4297.5
30°	5006.1	5041.2	4973.2	4043.0	3393.7	3036.1	2957.1	3075.6	3345.4	3876.3	4707.7
32.5°	5497.5	5504.1	5282.5	4047.4	3373.9	2987.9	2922.0	3062.4	3395.9	3964.1	5104.8
35°	6004.2	5971.3	5578.6	4113.2	3426.6	3005.4	2948.4	3099.7	3474.9	4067.2	5453.6
37.5°	6517.6	6458.3	5909.9	4220.7	3562.6	3196.3	3161.2	3290.6	3602.1	4209.8	5837.5
40°	7044.0	6962.9	6254.3	4383.1	3865.3	3845.6	3966.3	3950.9	3950.9	4391.8	6232.4
42.5°	7686.8	7592.5	6763.3	4841.6	4571.7	5012.7	5341.7	5137.7	4760.4	4810.8	6745.7
45°	8535.8	8454.6	7645.1	5719.0	5679.6	6693.1	7136.2	6732.5	5793.6	5778.3	7603.4
47.5°	9893.7	9878.3	9051.3	6736.9	7035.3	8831.9	9687.5	8910.9	6971.7	6802.7	9226.8
50°	11802.2	11756.2	10804.1	7930.3	8647.7	11482.0	13008.8	11714.5	8395.4	7998.3	11400.8
52.5°	13952.1	14000.4	13258.9	9233.4	10361.0	14430.3	16556.0	14926.1	9942.0	9518.6	14136.4
55°	15976.9	16253.3	16058.1	10758.0	12034.8	17685.8	20452.1	18449.2	11857.1	11508.3	17203.2
57.5°	17560.8	18339.5	19708.4	12973.7	14002.5	21494.1	24802.3	22268.5	14092.5	14739.6	21377.8
60°	17648.5	18679.6	21858.3	17609.0	16534.1	24760.6	29145.8	26000.0	17606.8	20226.1	24648.7
62.5°	16325.7	17431.3	20458.7	19715.0	19291.6	27540.0	31374.6	28720.2	21064.1	23439.9	23679.1
65°	14812.0	15928.6	18896.7	17326.0	18971.3	27421.6	30808.7	28783.9	21377.8	21255.0	21943.8
67.5°	12524.0	13526.5	16213.8	15336.3	17486.2	26098.7	28193.7	26969.7	19695.3	19879.5	20186.7
70°	9141.3	10106.5	12600.8	12644.6	15270.5	23714.2	24225.3	24056.4	18137.7	18333.0	17455.5
72.5°	6603.1	7417.0	9569.0	10369.7	12190.5	19886.1	19532.9	20184.5	15562.3	16327.9	14020.1
75°	4747.2	5357.1	7019.9	9020.6	9663.4	14768.2	13982.8	15632.5	12486.7	14059.6	10540.8
77.5°	1926.1	2141.1	2761.9	6076.6	6350.8	9935.4	8559.9	11354.7	8902.1	9237.8	5109.2
80°	79.0	87.7	114.1	3137.0	4354.5	5589.6	4580.5	6070.0	5879.2	3720.6	1206.5
82.5°	8.8	8.8	19.7	903.8	1906.3	3084.4	2158.6	3496.8	2976.9	1577.3	548.4
85°	2.2	2.2	4.4	103.1	447.5	493.6	291.8	1072.7	1384.2	645.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	19.7	21.9	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°	987.2	987.2	987.2	987.2	987.2	987.2	987.2	987.2	987.2	987.2	987.2
2.5°	993.8	982.8	969.6	956.5	949.9	932.3	925.8	921.4	917.0	919.2	919.2
5°	960.9	936.7	908.2	879.7	864.3	846.8	838.0	833.6	835.8	844.6	844.6
7.5°	956.5	910.4	849.0	811.7	794.1	781.0	772.2	767.8	770.0	781.0	785.4
10°	1028.9	947.7	838.0	774.4	754.6	741.5	732.7	726.1	721.7	730.5	732.7
12.5°	1184.6	1072.7	890.7	770.0	734.9	717.3	710.8	697.6	691.0	695.4	697.6
15°	1507.1	1314.0	996.0	787.5	717.3	697.6	686.6	675.7	664.7	662.5	664.7
17.5°	1928.3	1651.9	1156.1	829.2	704.2	680.1	664.7	649.3	634.0	631.8	629.6
20°	2450.4	2066.5	1379.9	895.0	693.2	664.7	642.8	620.8	601.1	594.5	594.5
22.5°	2926.4	2566.7	1667.2	976.2	677.9	642.8	616.4	590.1	568.2	557.2	555.0
25°	3507.8	3097.5	2011.6	1070.5	655.9	614.2	585.7	559.4	537.5	524.3	519.9
27.5°	4093.5	3656.9	2402.1	1193.4	629.6	585.7	559.4	535.3	511.1	495.8	491.4
30°	4661.7	4260.2	2840.9	1346.9	609.9	557.2	535.3	511.1	489.2	465.1	458.5
32.5°	5271.5	4876.6	3332.3	1518.1	594.5	537.5	513.3	491.4	462.9	440.9	430.0
35°	5859.4	5512.8	3874.1	1684.8	579.1	519.9	493.6	471.7	440.9	416.8	401.5
37.5°	6451.7	6160.0	4440.1	1785.7	557.2	495.8	471.7	454.1	419.0	390.5	372.9
40°	7079.1	6829.1	5052.1	1744.0	537.5	469.5	456.3	436.6	397.1	364.2	342.2
42.5°	7768.0	7467.4	5675.2	1583.9	519.9	447.5	434.4	414.6	377.3	337.8	309.3
45°	8634.5	8167.2	6186.3	1342.6	528.7	425.6	399.3	394.9	359.8	309.3	274.2
47.5°	10124.0	9242.2	6583.4	1186.8	587.9	401.5	370.7	381.7	344.4	280.8	241.3
50°	12403.3	11023.5	6954.1	1175.8	677.9	390.5	344.4	372.9	329.1	252.3	212.8
52.5°	14575.1	12833.3	7191.0	1272.4	756.8	419.0	318.1	362.0	318.1	232.5	193.0
55°	16652.6	13877.5	6767.6	1342.6	831.4	504.6	298.3	344.4	304.9	221.6	186.5
57.5°	18892.4	14342.6	5328.6	1485.2	884.1	576.9	302.7	318.1	287.4	215.0	184.3
60°	19561.4	13748.1	3216.0	1671.6	855.6	598.9	335.6	283.0	263.2	201.8	177.7
62.5°	18521.6	12337.5	1897.6	1522.4	831.4	566.0	383.9	261.1	239.1	184.3	164.5
65°	16966.3	10422.4	1237.3	1285.5	881.9	504.6	408.0	250.1	217.2	166.7	144.8
67.5°	15189.3	8395.4	866.5	759.0	813.9	454.1	344.4	247.9	195.2	140.4	118.5
70°	12793.8	6287.2	609.9	502.4	677.9	403.6	267.6	241.3	171.1	114.1	92.1
72.5°	9884.9	3935.5	454.1	324.7	482.6	329.1	212.8	204.0	138.2	94.3	70.2
75°	7289.7	2244.2	320.3	234.7	318.1	250.1	157.9	144.8	118.5	89.9	63.6
77.5°	3806.1	1123.2	199.6	179.9	182.1	155.8	114.1	105.3	109.7	89.9	59.2
80°	730.5	223.8	120.7	131.6	98.7	98.7	83.4	87.7	96.5	72.4	50.5
82.5°	304.9	48.3	65.8	74.6	61.4	68.0	68.0	70.2	68.0	52.6	37.3
85°	0.0	0.0	28.5	30.7	41.7	41.7	35.1	35.1	35.1	30.7	21.9
87.5°	0.0	0.0	0.0	0.0	2.2	6.6	13.2	15.4	17.5	13.2	8.8
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°	987.2	987.2	987.2	987.2	987.2	987.2	987.2	987.2	987.2	987.2	987.2
2.5°	917.0	912.6	919.2	923.6	927.9	927.9	923.6	919.2	912.6	919.2	912.6
5°	846.8	853.4	864.3	868.7	873.1	864.3	859.9	846.8	835.8	838.0	833.6
7.5°	791.9	798.5	811.7	820.5	820.5	816.1	802.9	789.7	772.2	772.2	770.0
10°	741.5	750.3	765.6	776.6	781.0	776.6	763.4	745.9	730.5	730.5	723.9
12.5°	699.8	710.8	728.3	743.7	748.1	743.7	730.5	713.0	695.4	695.4	691.0
15°	664.7	677.9	697.6	715.2	721.7	715.2	699.8	677.9	660.3	662.5	655.9
17.5°	631.8	642.8	669.1	688.8	695.4	688.8	669.1	640.6	623.0	627.4	623.0
20°	594.5	607.7	634.0	655.9	662.5	655.9	634.0	603.3	585.7	585.7	587.9
22.5°	555.0	568.2	594.5	609.9	618.6	612.0	590.1	561.6	544.0	544.0	546.2
25°	519.9	526.5	546.2	561.6	563.8	557.2	539.7	517.7	504.6	511.1	513.3
27.5°	487.0	487.0	495.8	504.6	502.4	495.8	489.2	471.7	469.5	476.0	482.6
30°	451.9	440.9	436.6	430.0	427.8	425.6	432.2	432.2	436.6	445.3	451.9
32.5°	421.2	399.3	379.5	359.8	348.8	357.6	375.1	390.5	405.8	419.0	425.6
35°	386.1	351.0	318.1	291.8	274.2	287.4	315.9	344.4	370.7	388.3	399.3
37.5°	351.0	300.5	261.1	228.1	215.0	226.0	256.7	296.2	335.6	357.6	372.9
40°	313.7	250.1	204.0	177.7	164.5	175.5	206.2	245.7	298.3	326.9	346.6
42.5°	276.4	206.2	164.5	138.2	131.6	138.2	162.3	201.8	258.9	294.0	320.3
45°	239.1	171.1	131.6	111.9	105.3	111.9	131.6	164.5	221.6	261.1	291.8
47.5°	206.2	144.8	109.7	92.1	87.7	94.3	109.7	138.2	186.5	226.0	261.1
50°	179.9	127.2	94.3	79.0	74.6	81.2	94.3	116.3	157.9	193.0	230.3
52.5°	162.3	118.5	83.4	68.0	65.8	70.2	81.2	98.7	133.8	164.5	199.6
55°	157.9	118.5	76.8	61.4	59.2	63.6	72.4	85.6	116.3	142.6	173.3
57.5°	162.3	127.2	72.4	52.6	50.5	54.8	63.6	74.6	100.9	122.8	151.4
60°	162.3	129.4	63.6	41.7	39.5	43.9	52.6	65.8	89.9	107.5	131.6
62.5°	147.0	118.5	52.6	32.9	28.5	32.9	43.9	54.8	79.0	96.5	116.3
65°	127.2	100.9	43.9	24.1	19.7	24.1	35.1	46.1	68.0	83.4	105.3
67.5°	103.1	76.8	32.9	17.5	13.2	17.5	26.3	37.3	57.0	72.4	94.3
70°	76.8	54.8	26.3	15.4	13.2	15.4	24.1	35.1	50.5	65.8	87.7
72.5°	57.0	37.3	21.9	15.4	11.0	15.4	21.9	32.9	48.3	63.6	83.4
75°	48.3	30.7	19.7	13.2	11.0	13.2	19.7	30.7	43.9	59.2	79.0
77.5°	46.1	28.5	17.5	11.0	8.8	11.0	17.5	26.3	39.5	54.8	76.8
80°	39.5	24.1	15.4	8.8	6.6	8.8	15.4	21.9	30.7	41.7	59.2
82.5°	30.7	19.7	11.0	4.4	2.2	4.4	11.0	13.2	19.7	24.1	35.1
85°	19.7	11.0	4.4	0.0	0.0	0.0	4.4	8.8	8.8	11.0	17.5
87.5°	8.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4	6.6
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°	987.2	987.2	987.2	987.2	987.2	987.2	987.2	987.2	987.2	987.2
2.5°	925.8	927.9	932.3	938.9	954.3	967.4	980.6	998.1	1006.9	1006.9
5°	838.0	840.2	842.4	851.2	873.1	890.7	919.2	954.3	971.8	976.2
7.5°	770.0	774.4	778.8	785.4	807.3	831.4	868.7	934.5	967.4	974.0
10°	730.5	737.1	745.9	759.0	778.8	805.1	868.7	987.2	1042.0	1053.0
12.5°	699.8	710.8	719.5	734.9	759.0	800.7	927.9	1136.3	1232.9	1259.2
15°	669.1	682.2	695.4	710.8	737.1	816.1	1042.0	1404.0	1564.1	1583.9
17.5°	638.4	653.7	671.3	688.8	721.7	853.4	1221.9	1774.7	1998.5	2042.4
20°	603.3	623.0	647.1	669.1	706.4	912.6	1472.0	2215.7	2496.5	2590.8
22.5°	566.0	590.1	618.6	647.1	688.8	985.0	1774.7	2689.5	3082.2	3143.6
25°	535.3	559.4	585.7	614.2	660.3	1072.7	2141.1	3277.4	3635.0	3694.2
27.5°	506.8	530.9	555.0	581.3	631.8	1186.8	2582.0	3902.6	4275.6	4337.0
30°	476.0	504.6	528.7	555.0	605.5	1327.2	3091.0	4595.9	4949.0	5006.1
32.5°	449.7	478.2	502.4	528.7	585.7	1480.8	3626.2	5210.1	5497.5	5497.5
35°	427.8	458.5	476.0	511.1	570.4	1579.5	4133.0	5795.8	6013.0	6004.2
37.5°	403.6	440.9	454.1	478.2	550.6	1590.5	4609.0	6414.5	6574.6	6517.6
40°	379.5	419.0	438.7	451.9	528.7	1500.5	5131.1	6982.6	7118.6	7044.0
42.5°	357.6	388.3	416.8	432.2	515.5	1342.6	5550.1	7590.3	7752.6	7686.8
45°	335.6	362.0	379.5	408.0	524.3	1232.9	5909.9	8298.9	8584.0	8535.8
47.5°	313.7	335.6	346.6	390.5	583.5	1182.4	6129.3	9395.7	9933.2	9893.7
50°	289.6	315.9	315.9	386.1	671.3	1200.0	6320.1	10984.0	11815.4	11802.2
52.5°	265.4	294.0	289.6	419.0	739.3	1281.1	6537.3	12385.8	13831.4	13952.1
55°	241.3	267.6	272.0	484.8	778.8	1351.3	5697.1	12975.9	15553.5	15976.9
57.5°	215.0	230.3	283.0	535.3	765.6	1555.4	3902.6	13083.4	16652.6	17560.8
60°	186.5	199.6	320.3	524.3	723.9	1436.9	2457.0	12118.1	16496.8	17648.5
62.5°	162.3	184.3	337.8	462.9	737.1	1246.0	1566.3	10328.1	15011.7	16325.7
65°	142.6	177.7	307.1	419.0	745.9	844.6	1057.4	8402.0	13561.6	14812.0
67.5°	127.2	197.4	252.3	372.9	640.6	594.5	726.1	6528.5	11403.0	12524.0
70°	116.3	201.8	206.2	320.3	495.8	381.7	478.2	4394.0	7860.1	9141.3
72.5°	105.3	149.2	155.8	256.7	320.3	232.5	309.3	2514.0	5730.0	6603.1
75°	100.9	100.9	107.5	166.7	177.7	168.9	199.6	1500.5	4108.8	4747.2
77.5°	94.3	76.8	68.0	107.5	96.5	120.7	118.5	666.9	1781.3	1926.1
80°	74.6	54.8	46.1	68.0	65.8	81.2	70.2	54.8	81.2	79.0
82.5°	46.1	35.1	32.9	41.7	37.3	41.7	32.9	8.8	8.8	8.8
85°	21.9	19.7	17.5	17.5	19.7	17.5	13.2	4.4	2.2	2.2
87.5°	11.0	11.0	8.8	6.6	8.8	8.8	6.6	2.2	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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