

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: P641176

Luminaire Tested: GWS-SA5F-735-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641176
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-SA5F-735-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24925 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

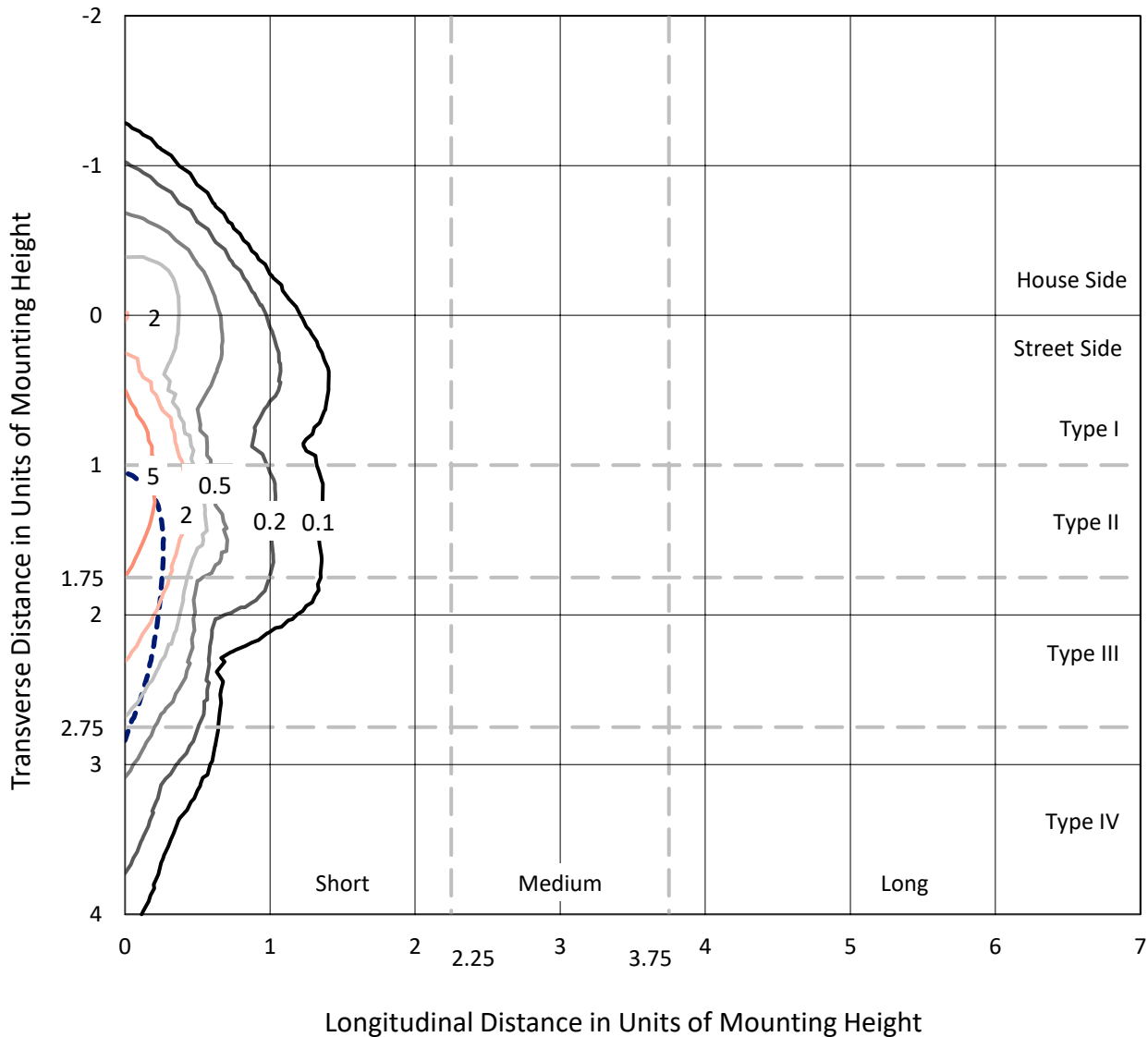
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

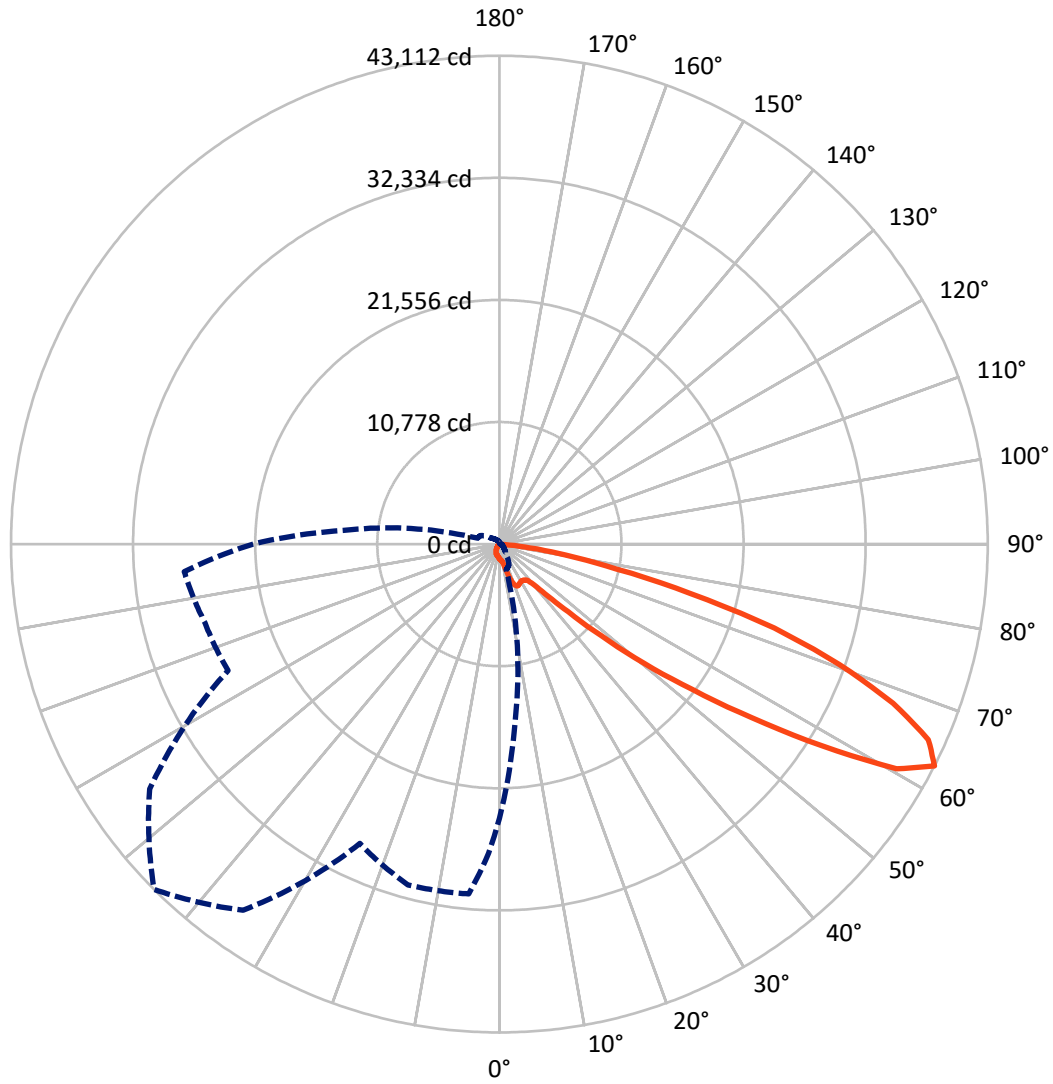
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	2896.0	0.0	2896.0
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	22029.0	0.0	22029.0
	% Fixture	88.4	0.0	88.4
Total	Lumens	24925.0	0.0	24925.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	0.4
10°-20°	382.6	1.5
20°-30°	864.3	3.5
30°-40°	1489.0	6.0
40°-50°	2808.8	11.3
50°-60°	6271.3	25.2
60°-70°	8387.8	33.7
70°-80°	4206.3	16.9
80°-90°	403.2	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°	24925.0	100.0
0°-180°	24925.0	100.0

Coefficient of Utilization



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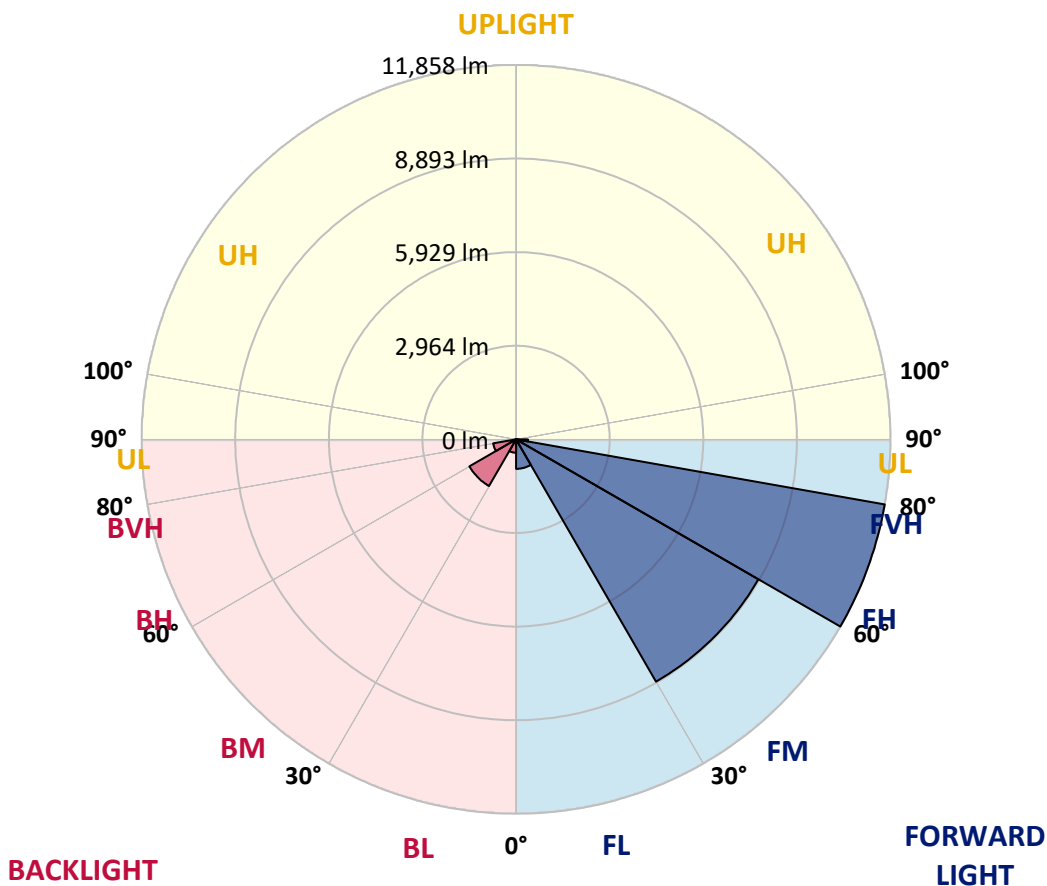
CATALOG NUMBER: GWS-SA5F-735-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	933.5	3.7			
FM (30°-60°)	8861.6	35.6			
FH (60°-80°)	11857.6	47.6			G4/12000
FVH (80°-90°)	376.3	1.5			G3/500
BL (0°-30°)	425.1	1.7	B1/500		
BM (30°-60°)	1707.6	6.9	B2/2500		
BH (60°-80°)	736.4	3.0	B2/1000		G2/1000
BVH (80°-90°)	26.8	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1292.6	1292.6	1292.6	1292.6	1292.6	1292.6	1292.6	1292.6	1292.6	1292.6	1292.6
2.5°	1277.9	1274.9	1269.0	1251.3	1236.6	1227.7	1210.0	1210.0	1207.1	1201.2	1189.4
5°	1236.6	1224.8	1213.0	1180.5	1145.1	1124.4	1100.8	1097.9	1097.9	1092.0	1089.0
7.5°	1171.6	1159.8	1145.1	1092.0	1059.5	1038.8	1018.2	1015.2	1006.4	1006.4	1006.4
10°	1136.2	1118.5	1094.9	1035.9	1003.4	985.7	971.0	962.1	956.2	947.4	944.4
12.5°	1213.0	1180.5	1130.3	1024.1	979.8	956.2	938.5	932.6	914.9	903.1	894.2
15°	1452.0	1372.3	1272.0	1050.6	971.0	935.5	911.9	900.1	885.4	864.7	850.0
17.5°	1844.5	1729.4	1561.2	1136.2	962.1	917.8	888.3	867.7	847.0	823.4	805.7
20°	2387.6	2216.4	2015.7	1292.6	962.1	897.2	861.8	835.2	805.7	779.1	758.5
22.5°	3078.2	2907.0	2564.6	1558.3	973.9	870.6	829.3	793.9	758.5	734.9	711.3
25°	3851.4	3609.4	3290.6	1879.9	1006.4	835.2	790.9	755.5	723.1	693.5	667.0
27.5°	4713.1	4450.5	4025.5	2337.4	1077.2	799.8	749.6	717.2	687.6	658.1	622.7
30°	5507.0	5350.6	4916.8	2886.3	1192.3	776.2	717.2	687.6	658.1	619.8	587.3
32.5°	6460.3	6182.9	5825.8	3512.0	1345.8	752.6	690.6	649.3	625.7	590.2	554.8
35°	7419.4	7183.3	6714.1	4282.3	1516.9	729.0	658.1	619.8	599.1	557.8	519.4
37.5°	8408.1	8355.0	7891.6	5135.2	1685.2	702.4	619.8	596.2	575.5	528.3	484.0
40°	9382.0	9284.6	8856.7	6109.1	1788.5	672.9	587.3	572.5	548.9	495.8	445.6
42.5°	10314.6	10240.8	9824.7	7041.7	1773.7	646.3	554.8	537.1	519.4	466.3	404.3
45°	11459.7	11338.7	10813.4	7732.3	1623.2	675.8	522.4	492.9	489.9	439.7	363.0
47.5°	13602.3	13203.9	12312.6	8263.5	1472.7	752.6	487.0	451.5	472.2	413.2	321.7
50°	16603.7	16134.5	14844.8	8676.7	1469.7	852.9	481.1	413.2	457.4	392.5	286.3
52.5°	19619.9	18793.5	17226.4	8898.0	1578.9	926.7	534.2	374.8	439.7	371.9	259.7
55°	22509.2	20794.5	18224.0	8166.1	1664.5	1006.4	631.6	354.1	407.3	348.2	245.0
57.5°	25262.7	22402.9	18657.8	6460.3	1950.8	1038.8	690.6	363.0	360.1	318.7	233.1
60°	25640.4	22326.2	17781.3	3756.9	2151.5	982.8	667.0	404.3	315.8	283.3	212.5
62.5°	24212.0	20841.7	15783.3	2343.3	1998.0	962.1	593.2	460.4	286.3	250.9	185.9
65°	22042.9	18513.2	13159.6	1511.0	1514.0	1068.4	519.4	451.5	268.6	221.3	159.4
67.5°	18651.9	15494.0	10367.7	1012.3	855.9	911.9	454.5	309.9	262.7	188.9	124.0
70°	13614.1	11028.8	6749.5	675.8	510.6	729.0	380.7	221.3	247.9	156.4	88.5
72.5°	9951.6	7410.6	3768.7	442.7	289.2	425.0	280.4	159.4	191.8	115.1	62.0
75°	7162.7	5099.8	2151.5	283.3	191.8	233.1	183.0	109.2	124.0	91.5	56.1
77.5°	3447.1	2485.0	976.9	156.4	129.9	118.0	97.4	67.9	76.7	82.6	50.2
80°	129.9	97.4	73.8	76.7	82.6	53.1	44.3	35.4	44.3	56.1	26.6
82.5°	0.0	0.0	0.0	8.9	11.8	14.8	17.7	14.8	17.7	20.7	3.0
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°	1292.6	1292.6	1292.6	1292.6	1292.6	1292.6	1292.6	1292.6	1292.6	1292.6	1292.6
2.5°	1198.2	1192.3	1198.2	1204.1	1210.0	1215.9	1207.1	1213.0	1218.9	1204.1	1210.0
5°	1103.8	1100.8	1118.5	1127.4	1139.2	1145.1	1139.2	1139.2	1136.2	1118.5	1118.5
7.5°	1021.1	1024.1	1038.8	1059.5	1074.3	1083.1	1077.2	1074.3	1065.4	1038.8	1038.8
10°	959.2	959.2	982.8	1000.5	1021.1	1030.0	1024.1	1015.2	1006.4	979.8	976.9
12.5°	909.0	909.0	926.7	956.2	979.8	991.6	988.7	976.9	962.1	935.5	932.6
15°	861.8	858.8	885.4	911.9	944.4	959.2	953.3	944.4	917.8	894.2	888.3
17.5°	814.5	811.6	835.2	870.6	906.0	926.7	923.7	903.1	879.5	850.0	844.1
20°	767.3	761.4	790.9	826.3	861.8	882.4	876.5	858.8	829.3	799.8	793.9
22.5°	720.1	717.2	737.8	767.3	799.8	817.5	814.5	799.8	770.3	743.7	743.7
25°	667.0	667.0	681.7	702.4	726.0	734.9	737.8	731.9	714.2	699.4	699.4
27.5°	622.7	613.9	619.8	625.7	637.5	652.2	652.2	658.1	661.1	655.2	658.1
30°	587.3	572.5	563.7	551.9	546.0	551.9	557.8	578.4	599.1	610.9	616.8
32.5°	546.0	528.3	504.7	472.2	451.5	445.6	463.3	501.7	540.1	566.6	581.4
35°	504.7	481.1	436.8	389.6	363.0	354.1	374.8	419.1	475.2	522.4	543.0
37.5°	463.3	430.9	368.9	312.8	283.3	277.4	298.1	345.3	410.2	475.2	501.7
40°	416.1	377.8	304.0	245.0	221.3	215.4	233.1	280.4	348.2	422.0	463.3
42.5°	368.9	321.7	245.0	194.8	171.2	171.2	194.8	230.2	292.2	371.9	422.0
45°	321.7	271.5	200.7	156.4	141.7	144.6	159.4	194.8	245.0	327.6	374.8
47.5°	277.4	233.1	165.3	129.9	118.0	121.0	138.7	168.2	209.5	283.3	333.5
50°	239.1	197.7	144.6	109.2	100.3	106.2	124.0	150.5	185.9	250.9	292.2
52.5°	215.4	177.1	132.8	94.4	88.5	94.4	112.1	135.8	168.2	221.3	262.7
55°	203.6	174.1	132.8	85.6	76.7	82.6	100.3	124.0	150.5	200.7	236.1
57.5°	200.7	180.0	141.7	76.7	64.9	70.8	88.5	112.1	138.7	183.0	212.5
60°	188.9	171.2	138.7	62.0	50.2	59.0	73.8	97.4	126.9	171.2	197.7
62.5°	165.3	150.5	121.0	50.2	38.4	44.3	62.0	85.6	115.1	156.4	185.9
65°	135.8	121.0	94.4	32.5	23.6	29.5	47.2	73.8	100.3	141.7	168.2
67.5°	100.3	85.6	64.9	20.7	11.8	20.7	38.4	62.0	91.5	126.9	153.5
70°	62.0	50.2	35.4	11.8	8.9	17.7	35.4	59.0	82.6	118.0	144.6
72.5°	35.4	23.6	14.8	5.9	8.9	17.7	35.4	59.0	79.7	112.1	135.8
75°	26.6	14.8	5.9	3.0	5.9	14.8	32.5	53.1	76.7	106.2	129.9
77.5°	17.7	8.9	3.0	0.0	3.0	11.8	29.5	50.2	70.8	100.3	124.0
80°	3.0	0.0	0.0	0.0	0.0	8.9	26.6	44.3	64.9	88.5	109.2
82.5°	0.0	0.0	0.0	0.0	0.0	3.0	20.7	38.4	56.1	73.8	88.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	11.8	29.5	44.3	56.1	62.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.8	29.5	35.4	41.3
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1292.6	1292.6	1292.6	1292.6	1292.6	1292.6	1292.6	1292.6	1292.6	1292.6	1292.6
2.5°	1207.1	1224.8	1224.8	1236.6	1251.3	1277.9	1292.6	1313.3	1328.1	1342.8	1348.7
5°	1115.6	1118.5	1121.5	1127.4	1145.1	1174.6	1201.2	1233.6	1272.0	1301.5	1319.2
7.5°	1038.8	1038.8	1038.8	1047.7	1065.4	1086.1	1112.6	1156.9	1201.2	1236.6	1266.1
10°	973.9	982.8	985.7	1000.5	1021.1	1047.7	1077.2	1115.6	1165.7	1213.0	1266.1
12.5°	932.6	941.4	956.2	971.0	991.6	1021.1	1053.6	1103.8	1207.1	1304.5	1416.6
15°	894.2	906.0	923.7	944.4	968.0	1000.5	1035.9	1139.2	1381.2	1564.2	1741.2
17.5°	852.9	870.6	894.2	914.9	944.4	979.8	1024.1	1224.8	1699.9	2003.9	2304.9
20°	799.8	823.4	850.0	882.4	917.8	959.2	1024.1	1401.8	2160.3	2597.1	2995.5
22.5°	749.6	773.2	805.7	847.0	888.3	929.6	1038.8	1670.4	2753.5	3305.4	3810.1
25°	708.3	737.8	770.3	805.7	852.9	900.1	1074.3	2048.2	3467.7	4179.0	4536.1
27.5°	669.9	705.3	737.8	767.3	808.6	861.8	1153.9	2552.8	4311.8	5034.8	5315.2
30°	631.6	672.9	705.3	734.9	776.2	832.3	1274.9	3196.2	5250.3	5952.7	5982.2
32.5°	599.1	637.5	675.8	705.3	743.7	808.6	1443.2	3948.8	6212.4	6891.2	6613.7
35°	563.7	608.0	643.4	675.8	717.2	788.0	1637.9	4760.4	7183.3	7752.9	7242.4
37.5°	528.3	578.4	622.7	646.3	687.6	767.3	1779.6	5607.4	8175.0	8594.0	7794.2
40°	495.8	551.9	602.1	625.7	646.3	740.8	1800.3	6475.0	9181.3	9423.3	8313.7
42.5°	460.4	522.4	566.6	599.1	616.8	723.1	1676.3	7206.9	10025.4	10249.7	8992.5
45°	422.0	495.8	531.2	554.8	590.2	734.9	1516.9	7773.6	10990.4	11377.1	10111.0
47.5°	383.7	466.3	495.8	513.5	560.7	805.7	1457.9	8151.3	12581.2	13383.9	11996.8
50°	348.2	439.7	472.2	469.2	554.8	897.2	1522.8	8437.6	14971.7	15916.1	14582.1
52.5°	309.9	410.2	448.6	436.8	599.1	968.0	1652.7	8664.9	16810.3	18885.0	18055.7
55°	277.4	377.8	413.2	410.2	681.7	1021.1	1753.0	7466.7	17571.7	21644.4	21969.1
57.5°	253.8	342.3	371.9	422.0	734.9	1021.1	2027.5	5300.4	17586.5	23674.9	27163.3
60°	233.1	309.9	330.5	463.3	714.2	968.0	2006.8	3246.4	16208.3	23536.2	29925.6
62.5°	215.4	280.4	306.9	475.2	631.6	959.2	1812.1	2012.8	13823.6	21744.8	27921.8
65°	200.7	256.8	295.1	436.8	572.5	1027.0	1221.8	1446.1	11211.8	19702.5	25622.7
67.5°	185.9	236.1	312.8	357.1	519.4	917.8	882.4	1027.0	8800.6	17462.5	23512.6
70°	174.1	224.3	330.5	292.2	454.5	717.2	625.7	779.1	6737.7	14570.3	20540.7
72.5°	165.3	209.5	277.4	230.2	368.9	554.8	436.8	566.6	4403.3	11374.1	16745.4
75°	156.4	191.8	203.6	185.9	274.5	363.0	330.5	380.7	2623.7	8313.7	12705.1
77.5°	153.5	180.0	165.3	150.5	185.9	215.4	250.9	256.8	1280.8	4158.3	6658.0
80°	135.8	162.3	141.7	124.0	126.9	141.7	185.9	171.2	292.2	1056.5	1776.7
82.5°	106.2	126.9	118.0	103.3	103.3	103.3	124.0	115.1	94.4	475.2	802.7
85°	73.8	88.5	88.5	82.6	79.7	79.7	76.7	73.8	26.6	29.5	44.3
87.5°	50.2	62.0	64.9	62.0	53.1	47.2	41.3	35.4	11.8	0.0	5.9
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°	358°	360°
0°	1292.6	1292.6	1292.6	1292.6	1292.6	1292.6	1292.6	1292.6	1292.6	1292.6
2.5°	1369.4	1378.2	1378.2	1366.4	1357.6	1334.0	1310.4	1286.7	1280.8	1277.9
5°	1369.4	1404.8	1422.5	1419.5	1398.9	1360.5	1310.4	1257.2	1242.5	1236.6
7.5°	1348.7	1416.6	1469.7	1478.6	1440.2	1372.3	1280.8	1201.2	1180.5	1171.6
10°	1395.9	1528.7	1635.0	1649.7	1605.5	1472.7	1325.1	1189.4	1156.9	1136.2
12.5°	1649.7	1868.1	1998.0	2060.0	1974.4	1806.2	1561.2	1319.2	1245.4	1213.0
15°	2163.3	2473.1	2721.0	2721.0	2641.4	2343.3	2033.4	1640.9	1540.6	1452.0
17.5°	2821.4	3211.0	3429.3	3405.7	3284.7	3075.2	2703.3	2139.7	1936.0	1844.5
20°	3571.0	3804.2	3854.3	3839.6	3786.5	3665.4	3408.7	2803.7	2529.2	2387.6
22.5°	4220.3	4158.3	4084.5	4025.5	4010.7	4046.2	4010.7	3544.4	3329.0	3078.2
25°	4660.0	4308.8	4087.5	3981.2	4031.4	4235.0	4456.4	4282.3	4111.1	3851.4
27.5°	4899.1	4291.1	3972.4	3863.2	3948.8	4238.0	4719.0	5014.2	4837.1	4713.1
30°	5028.9	4276.4	3898.6	3792.4	3922.2	4285.2	4902.0	5698.9	5704.8	5507.0
32.5°	5214.9	4370.8	3913.4	3816.0	3990.1	4426.9	5132.2	6395.4	6566.5	6460.3
35°	5424.4	4515.4	3981.2	3892.7	4108.1	4615.8	5389.0	7097.7	7454.9	7419.4
37.5°	5622.1	4677.7	4140.6	4055.0	4288.2	4778.1	5636.9	7788.3	8284.2	8408.1
40°	5828.7	4905.0	4630.5	4713.1	4843.0	5034.8	5858.2	8387.4	9196.1	9382.0
42.5°	6315.7	5693.0	6112.0	6268.4	6286.2	5890.7	6342.2	9154.8	10093.3	10314.6
45°	7401.7	7094.8	8296.0	8517.3	8402.2	7204.0	7508.0	10261.5	11347.5	11459.7
47.5°	8774.1	8915.7	11285.6	12049.9	11359.4	8753.4	8921.6	12590.0	13643.6	13602.3
50°	10373.6	11043.6	14679.5	16482.7	14830.0	10766.2	10550.7	15452.7	16730.6	16603.7
52.5°	12265.4	13516.7	18758.1	21319.8	19755.6	13029.8	12941.2	19245.1	20024.2	19619.9
55°	14647.0	15904.3	23450.6	27030.5	24805.2	15792.1	16096.1	23642.4	23793.0	22509.2
57.5°	18200.3	19017.8	28981.2	33579.3	30076.2	19546.1	21750.7	29494.8	27694.5	25262.7
60°	24651.8	23022.7	34326.0	40278.6	35683.5	24825.9	29208.5	32962.5	28993.1	25640.4
62.5°	26897.7	26422.5	37672.7	43111.8	39455.2	29161.3	31147.5	30997.0	27310.8	24212.0
65°	23494.9	25575.5	37073.6	41615.5	38971.2	28447.1	27951.3	28827.8	25416.1	22042.9
67.5°	21703.5	23586.4	34804.1	37486.7	36288.5	26024.1	24914.4	24675.4	21337.5	18651.9
70°	19897.3	21762.5	31513.4	31846.9	31289.1	22075.3	20617.4	19014.9	15948.5	13614.1
72.5°	17725.2	18752.2	26947.8	25366.0	24734.4	17338.6	17031.6	14319.5	11955.5	9951.6
75°	15458.6	15160.6	21009.9	17409.4	17881.6	13490.2	14384.4	10515.3	8759.3	7162.7
77.5°	11244.3	11022.9	14071.5	10574.3	11710.5	8836.0	7938.9	4196.7	3996.0	3447.1
80°	6274.4	7564.0	7599.5	5926.1	7392.9	5760.8	1986.2	138.7	88.5	129.9
82.5°	2915.8	3252.3	4119.9	2747.6	4217.3	2853.9	410.2	0.0	0.0	0.0
85°	944.4	1381.2	1156.9	404.3	1021.1	965.1	67.9	0.0	0.0	0.0
87.5°	56.1	115.1	29.5	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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