

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: P636281

Luminaire Tested: GWS-SA3F-740-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636281
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-SA3F-740-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14804.1 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

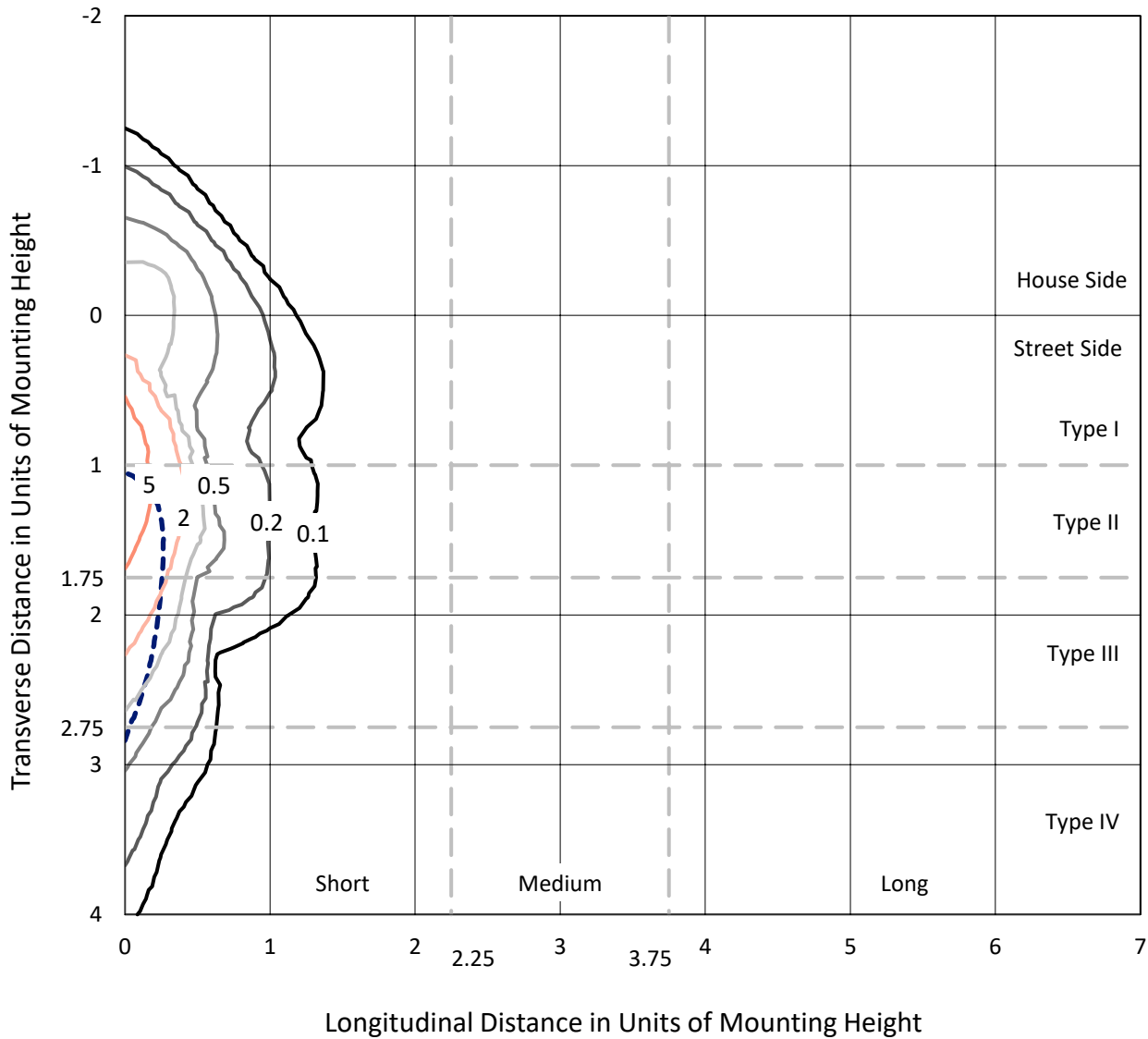
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

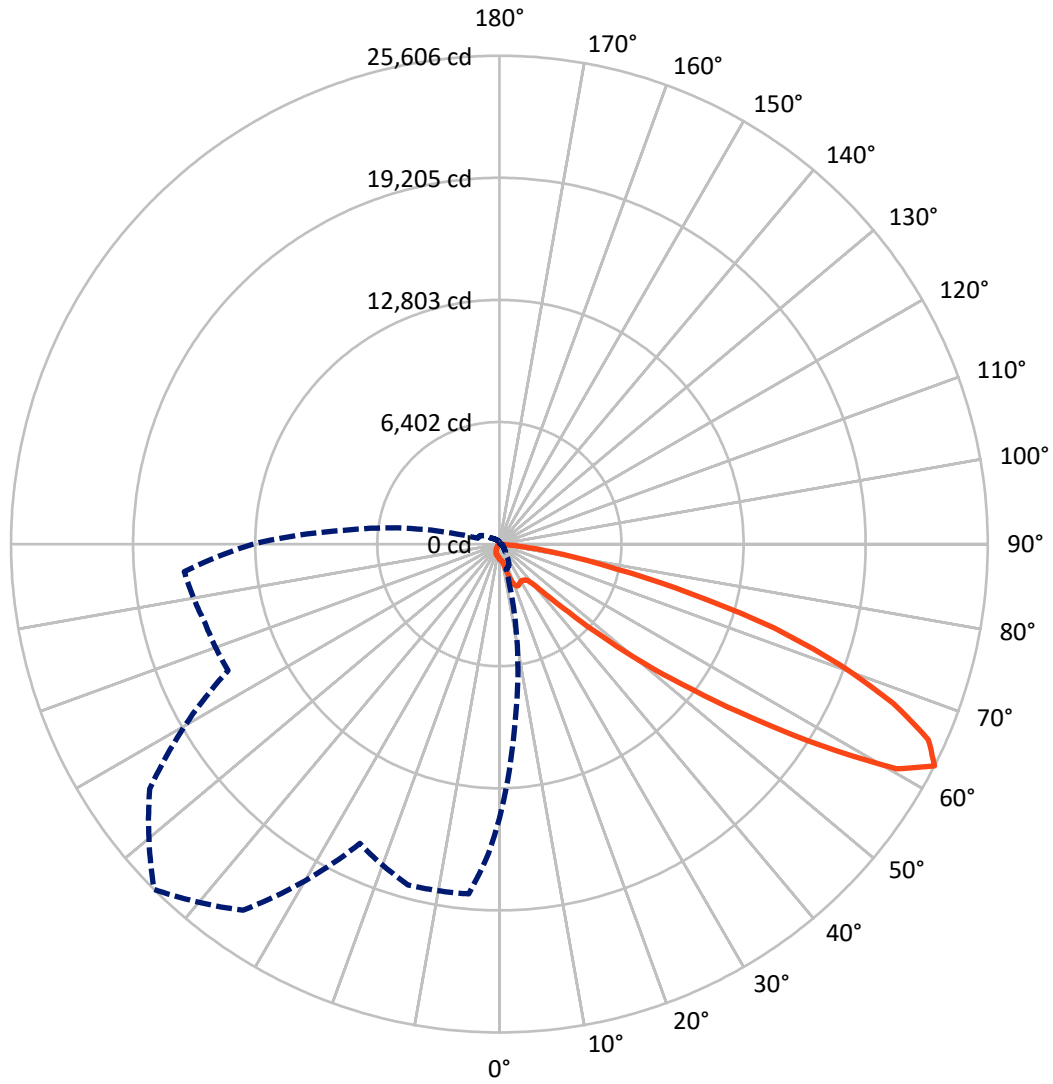
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 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	1720.0	0.0	1720.0
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	13084.1	0.0	13084.1
	% Fixture	88.4	0.0	88.4
Total	Lumens	14804.1	0.0	14804.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.3	0.4
10°-20°	227.2	1.5
20°-30°	513.4	3.5
30°-40°	884.4	6.0
40°-50°	1668.3	11.3
50°-60°	3724.8	25.2
60°-70°	4981.9	33.7
70°-80°	2498.3	16.9
80°-90°	239.5	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°	14804.1	100.0
0°-180°	14804.1	100.0

Coefficient of Utilization



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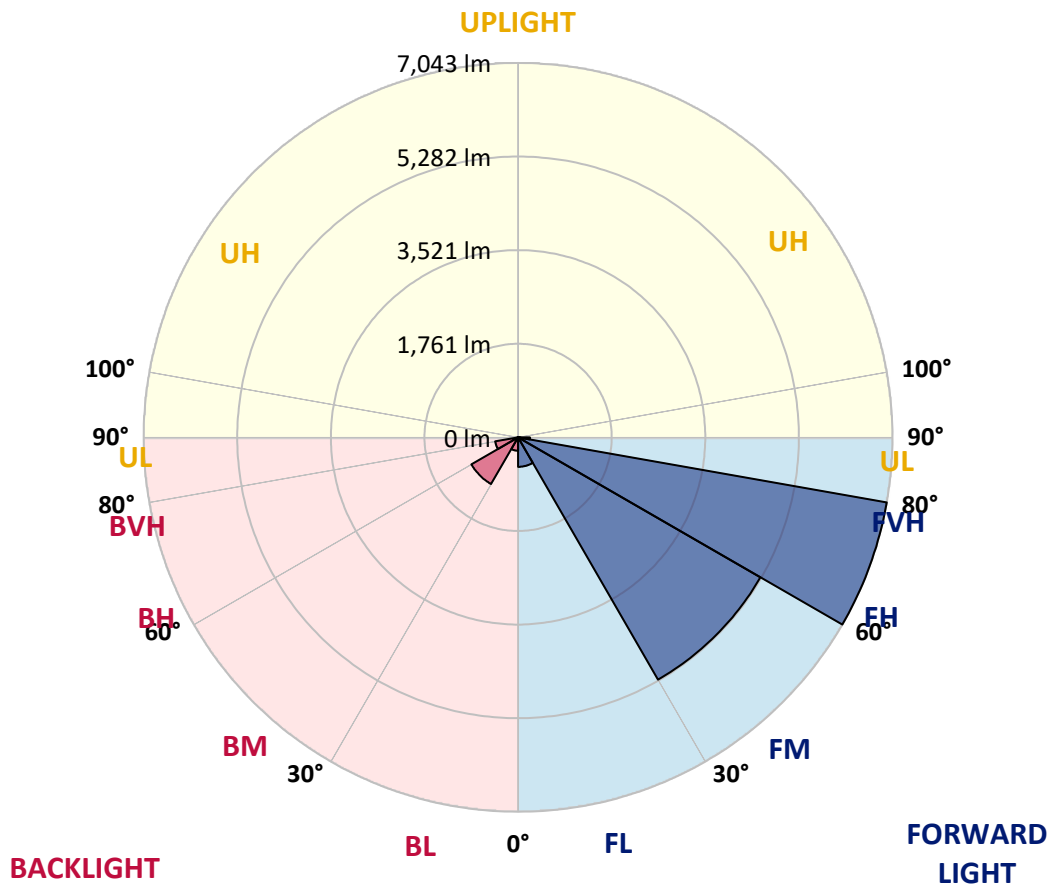
CATALOG NUMBER: GWS-SA3F-740-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	554.4	3.7			
FM (30°-60°)	5263.3	35.6			
FH (60°-80°)	7042.8	47.6			G3/7500
FVH (80°-90°)	223.5	1.5			G2/225
BL (0°-30°)	252.5	1.7	B1/500		
BM (30°-60°)	1014.2	6.9	B2/2500		
BH (60°-80°)	437.4	3.0	B1/500		G1/500
BVH (80°-90°)	15.9	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	767.8	767.8	767.8	767.8	767.8	767.8	767.8	767.8	767.8	767.8	767.8
2.5°	759.0	757.2	753.7	743.2	734.5	729.2	718.7	718.7	716.9	713.4	706.4
5°	734.5	727.4	720.4	701.2	680.1	667.8	653.8	652.1	652.1	648.6	646.8
7.5°	695.9	688.9	680.1	648.6	629.3	617.0	604.7	603.0	597.7	597.7	597.7
10°	674.9	664.3	650.3	615.3	596.0	585.5	576.7	571.4	567.9	562.7	560.9
12.5°	720.4	701.2	671.4	608.2	582.0	567.9	557.4	553.9	543.4	536.4	531.1
15°	862.4	815.1	755.5	624.0	576.7	555.7	541.6	534.6	525.9	513.6	504.8
17.5°	1095.6	1027.2	927.3	674.9	571.4	545.1	527.6	515.3	503.1	489.1	478.5
20°	1418.1	1316.4	1197.2	767.8	571.4	532.9	511.8	496.1	478.5	462.8	450.5
22.5°	1828.3	1726.6	1523.3	925.5	578.5	517.1	492.6	471.5	450.5	436.5	422.4
25°	2287.5	2143.8	1954.5	1116.6	597.7	496.1	469.8	448.7	429.5	411.9	396.2
27.5°	2799.4	2643.3	2390.9	1388.3	639.8	475.0	445.2	426.0	408.4	390.9	369.9
30°	3270.9	3178.0	2920.3	1714.3	708.2	461.0	426.0	408.4	390.9	368.1	348.8
32.5°	3837.1	3672.3	3460.2	2085.9	799.3	447.0	410.2	385.6	371.6	350.6	329.5
35°	4406.7	4266.5	3987.8	2543.4	901.0	433.0	390.9	368.1	355.8	331.3	308.5
37.5°	4994.0	4962.4	4687.2	3050.0	1000.9	417.2	368.1	354.1	341.8	313.8	287.5
40°	5572.4	5514.6	5260.4	3628.5	1062.2	399.7	348.8	340.1	326.0	294.5	264.7
42.5°	6126.3	6082.5	5835.3	4182.4	1053.5	383.9	329.5	319.0	308.5	277.0	240.1
45°	6806.4	6734.6	6422.6	4592.5	964.1	401.4	310.3	292.7	291.0	261.2	215.6
47.5°	8079.0	7842.4	7313.0	4908.1	874.7	447.0	289.2	268.2	280.5	245.4	191.1
50°	9861.7	9583.0	8817.0	5153.5	872.9	506.6	285.7	245.4	271.7	233.1	170.0
52.5°	11653.2	11162.3	10231.6	5284.9	937.8	550.4	317.3	222.6	261.2	220.9	154.3
55°	13369.2	12350.8	10824.0	4850.2	988.6	597.7	375.1	210.3	241.9	206.8	145.5
57.5°	15004.7	13306.1	11081.7	3837.1	1158.7	617.0	410.2	215.6	213.9	189.3	138.5
60°	15229.0	13260.5	10561.1	2231.4	1277.9	583.7	396.2	240.1	187.6	168.3	126.2
62.5°	14380.6	12378.8	9374.4	1391.8	1186.7	571.4	352.3	273.4	170.0	149.0	110.4
65°	13092.3	10995.8	7816.1	897.5	899.2	634.5	308.5	268.2	159.5	131.5	94.7
67.5°	11078.2	9202.6	6157.9	601.2	508.3	541.6	269.9	184.1	156.0	112.2	73.6
70°	8086.0	6550.5	4008.8	401.4	303.2	433.0	226.1	131.5	147.2	92.9	52.6
72.5°	5910.7	4401.5	2238.4	262.9	171.8	252.4	166.5	94.7	113.9	68.4	36.8
75°	4254.2	3029.0	1277.9	168.3	113.9	138.5	108.7	64.9	73.6	54.3	33.3
77.5°	2047.4	1475.9	580.2	92.9	77.1	70.1	57.8	40.3	45.6	49.1	29.8
80°	77.1	57.8	43.8	45.6	49.1	31.6	26.3	21.0	26.3	33.3	15.8
82.5°	0.0	0.0	0.0	5.3	7.0	8.8	10.5	8.8	10.5	12.3	1.8
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°	767.8	767.8	767.8	767.8	767.8	767.8	767.8	767.8	767.8	767.8	767.8
2.5°	711.7	708.2	711.7	715.2	718.7	722.2	716.9	720.4	723.9	715.2	718.7
5°	655.6	653.8	664.3	669.6	676.6	680.1	676.6	676.6	674.9	664.3	664.3
7.5°	606.5	608.2	617.0	629.3	638.0	643.3	639.8	638.0	632.8	617.0	617.0
10°	569.7	569.7	583.7	594.2	606.5	611.8	608.2	603.0	597.7	582.0	580.2
12.5°	539.9	539.9	550.4	567.9	582.0	589.0	587.2	580.2	571.4	555.7	553.9
15°	511.8	510.1	525.9	541.6	560.9	569.7	566.2	560.9	545.1	531.1	527.6
17.5°	483.8	482.0	496.1	517.1	538.1	550.4	548.7	536.4	522.4	504.8	501.3
20°	455.7	452.2	469.8	490.8	511.8	524.1	520.6	510.1	492.6	475.0	471.5
22.5°	427.7	426.0	438.2	455.7	475.0	485.5	483.8	475.0	457.5	441.7	441.7
25°	396.2	396.2	404.9	417.2	431.2	436.5	438.2	434.7	424.2	415.4	415.4
27.5°	369.9	364.6	368.1	371.6	378.6	387.4	387.4	390.9	392.6	389.1	390.9
30°	348.8	340.1	334.8	327.8	324.3	327.8	331.3	343.6	355.8	362.8	366.4
32.5°	324.3	313.8	299.7	280.5	268.2	264.7	275.2	298.0	320.8	336.6	345.3
35°	299.7	285.7	259.4	231.4	215.6	210.3	222.6	248.9	282.2	310.3	322.5
37.5°	275.2	255.9	219.1	185.8	168.3	164.8	177.0	205.1	243.7	282.2	298.0
40°	247.2	224.4	180.5	145.5	131.5	128.0	138.5	166.5	206.8	250.7	275.2
42.5°	219.1	191.1	145.5	115.7	101.7	101.7	115.7	136.7	173.5	220.9	250.7
45°	191.1	161.3	119.2	92.9	84.1	85.9	94.7	115.7	145.5	194.6	222.6
47.5°	164.8	138.5	98.2	77.1	70.1	71.9	82.4	99.9	124.5	168.3	198.1
50°	142.0	117.4	85.9	64.9	59.6	63.1	73.6	89.4	110.4	149.0	173.5
52.5°	128.0	105.2	78.9	56.1	52.6	56.1	66.6	80.6	99.9	131.5	156.0
55°	120.9	103.4	78.9	50.8	45.6	49.1	59.6	73.6	89.4	119.2	140.2
57.5°	119.2	106.9	84.1	45.6	38.6	42.1	52.6	66.6	82.4	108.7	126.2
60°	112.2	101.7	82.4	36.8	29.8	35.1	43.8	57.8	75.4	101.7	117.4
62.5°	98.2	89.4	71.9	29.8	22.8	26.3	36.8	50.8	68.4	92.9	110.4
65°	80.6	71.9	56.1	19.3	14.0	17.5	28.0	43.8	59.6	84.1	99.9
67.5°	59.6	50.8	38.6	12.3	7.0	12.3	22.8	36.8	54.3	75.4	91.1
70°	36.8	29.8	21.0	7.0	5.3	10.5	21.0	35.1	49.1	70.1	85.9
72.5°	21.0	14.0	8.8	3.5	5.3	10.5	21.0	35.1	47.3	66.6	80.6
75°	15.8	8.8	3.5	1.8	3.5	8.8	19.3	31.6	45.6	63.1	77.1
77.5°	10.5	5.3	1.8	0.0	1.8	7.0	17.5	29.8	42.1	59.6	73.6
80°	1.8	0.0	0.0	0.0	0.0	5.3	15.8	26.3	38.6	52.6	64.9
82.5°	0.0	0.0	0.0	0.0	0.0	1.8	12.3	22.8	33.3	43.8	52.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	7.0	17.5	26.3	33.3	36.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	17.5	21.0	24.5
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°	767.8	767.8	767.8	767.8	767.8	767.8	767.8	767.8	767.8	767.8	767.8
2.5°	716.9	727.4	727.4	734.5	743.2	759.0	767.8	780.0	788.8	797.6	801.1
5°	662.6	664.3	666.1	669.6	680.1	697.6	713.4	732.7	755.5	773.0	783.5
7.5°	617.0	617.0	617.0	622.3	632.8	645.1	660.8	687.1	713.4	734.5	752.0
10°	578.5	583.7	585.5	594.2	606.5	622.3	639.8	662.6	692.4	720.4	752.0
12.5°	553.9	559.2	567.9	576.7	589.0	606.5	625.8	655.6	716.9	774.8	841.4
15°	531.1	538.1	548.7	560.9	574.9	594.2	615.3	676.6	820.3	929.0	1034.2
17.5°	506.6	517.1	531.1	543.4	560.9	582.0	608.2	727.4	1009.7	1190.2	1369.0
20°	475.0	489.1	504.8	524.1	545.1	569.7	608.2	832.6	1283.1	1542.5	1779.2
22.5°	445.2	459.3	478.5	503.1	527.6	552.2	617.0	992.1	1635.4	1963.2	2263.0
25°	420.7	438.2	457.5	478.5	506.6	534.6	638.0	1216.5	2059.6	2482.1	2694.2
27.5°	397.9	418.9	438.2	455.7	480.3	511.8	685.4	1516.2	2561.0	2990.4	3156.9
30°	375.1	399.7	418.9	436.5	461.0	494.3	757.2	1898.4	3118.4	3535.6	3553.1
32.5°	355.8	378.6	401.4	418.9	441.7	480.3	857.2	2345.4	3689.8	4093.0	3928.2
35°	334.8	361.1	382.1	401.4	426.0	468.0	972.8	2827.4	4266.5	4604.8	4301.6
37.5°	313.8	343.6	369.9	383.9	408.4	455.7	1057.0	3330.5	4855.5	5104.4	4629.4
40°	294.5	327.8	357.6	371.6	383.9	440.0	1069.3	3845.8	5453.2	5596.9	4937.9
42.5°	273.4	310.3	336.6	355.8	366.4	429.5	995.6	4280.5	5954.5	6087.8	5341.0
45°	250.7	294.5	315.5	329.5	350.6	436.5	901.0	4617.1	6527.7	6757.4	6005.4
47.5°	227.9	277.0	294.5	305.0	333.0	478.5	865.9	4841.5	7472.5	7949.3	7125.5
50°	206.8	261.2	280.5	278.7	329.5	532.9	904.5	5011.5	8892.4	9453.3	8661.0
52.5°	184.1	243.7	266.4	259.4	355.8	574.9	981.6	5146.5	9984.4	11216.7	10724.1
55°	164.8	224.4	245.4	243.7	404.9	606.5	1041.2	4434.8	10436.7	12855.6	13048.4
57.5°	150.7	203.3	220.9	250.7	436.5	606.5	1204.2	3148.2	10445.4	14061.6	16133.5
60°	138.5	184.1	196.3	275.2	424.2	574.9	1192.0	1928.2	9626.8	13979.2	17774.2
62.5°	128.0	166.5	182.3	282.2	375.1	569.7	1076.3	1195.5	8210.5	12915.2	16584.0
65°	119.2	152.5	175.3	259.4	340.1	610.0	725.7	858.9	6659.2	11702.2	15218.5
67.5°	110.4	140.2	185.8	212.1	308.5	545.1	524.1	610.0	5227.1	10371.8	13965.2
70°	103.4	133.2	196.3	173.5	269.9	426.0	371.6	462.8	4001.8	8654.0	12200.1
72.5°	98.2	124.5	164.8	136.7	219.1	329.5	259.4	336.6	2615.3	6755.6	9945.8
75°	92.9	113.9	120.9	110.4	163.0	215.6	196.3	226.1	1558.3	4937.9	7546.2
77.5°	91.1	106.9	98.2	89.4	110.4	128.0	149.0	152.5	760.8	2469.8	3954.5
80°	80.6	96.4	84.1	73.6	75.4	84.1	110.4	101.7	173.5	627.5	1055.2
82.5°	63.1	75.4	70.1	61.4	61.4	61.4	73.6	68.4	56.1	282.2	476.8
85°	43.8	52.6	52.6	49.1	47.3	47.3	45.6	43.8	15.8	17.5	26.3
87.5°	29.8	36.8	38.6	36.8	31.6	28.0	24.5	21.0	7.0	0.0	3.5
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):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	767.8	767.8	767.8	767.8	767.8	767.8	767.8	767.8	767.8	767.8
2.5°	813.3	818.6	818.6	811.6	806.3	792.3	778.3	764.3	760.8	759.0
5°	813.3	834.4	844.9	843.1	830.9	808.1	778.3	746.7	738.0	734.5
7.5°	801.1	841.4	872.9	878.2	855.4	815.1	760.8	713.4	701.2	695.9
10°	829.1	908.0	971.1	979.9	953.6	874.7	787.0	706.4	687.1	674.9
12.5°	979.9	1109.6	1186.7	1223.5	1172.7	1072.8	927.3	783.5	739.7	720.4
15°	1284.9	1468.9	1616.2	1616.2	1568.8	1391.8	1207.7	974.6	915.0	862.4
17.5°	1675.8	1907.1	2036.8	2022.8	1951.0	1826.5	1605.6	1270.8	1149.9	1095.6
20°	2121.0	2259.5	2289.3	2280.5	2248.9	2177.1	2024.6	1665.2	1502.2	1418.1
22.5°	2506.6	2469.8	2426.0	2390.9	2382.2	2403.2	2382.2	2105.2	1977.2	1828.3
25°	2767.8	2559.2	2427.7	2364.6	2394.4	2515.4	2646.9	2543.4	2441.8	2287.5
27.5°	2909.8	2548.7	2359.4	2294.5	2345.4	2517.1	2802.9	2978.1	2873.0	2799.4
30°	2986.9	2539.9	2315.6	2252.5	2329.6	2545.2	2911.5	3384.8	3388.3	3270.9
32.5°	3097.3	2596.0	2324.3	2266.5	2369.9	2629.3	3048.3	3798.5	3900.2	3837.1
35°	3221.8	2681.9	2364.6	2312.1	2440.0	2741.5	3200.8	4215.7	4427.8	4406.7
37.5°	3339.2	2778.3	2459.3	2408.5	2546.9	2837.9	3348.0	4625.9	4920.3	4994.0
40°	3461.9	2913.3	2750.3	2799.4	2876.5	2990.4	3479.5	4981.7	5462.0	5572.4
42.5°	3751.2	3381.3	3630.2	3723.1	3733.6	3498.8	3766.9	5437.4	5994.9	6126.3
45°	4396.2	4213.9	4927.3	5058.8	4990.5	4278.8	4459.3	6094.8	6739.8	6806.4
47.5°	5211.3	5295.5	6703.0	7157.0	6746.8	5199.0	5299.0	7477.8	8103.6	8079.0
50°	6161.4	6559.3	8718.8	9789.8	8808.2	6394.5	6266.5	9178.1	9937.1	9861.7
52.5°	7285.0	8028.2	11141.3	12662.8	11733.8	7739.0	7686.4	11430.5	11893.3	11653.2
55°	8699.5	9446.3	13928.4	16054.6	14733.0	9379.7	9560.2	14042.3	14131.7	13369.2
57.5°	10810.0	11295.6	17213.3	19944.3	17863.6	11609.3	12918.7	17518.3	16449.0	15004.7
60°	14641.8	13674.2	20387.8	23923.3	21194.1	14745.2	17348.3	19577.9	17220.3	15229.0
62.5°	15975.8	15693.5	22375.5	25606.1	23434.3	17320.2	18499.9	18410.5	16221.2	14380.6
65°	13954.7	15190.5	22019.7	24717.4	23146.8	16896.0	16601.5	17122.1	15095.8	13092.3
67.5°	12890.7	14009.0	20671.7	22265.1	21553.4	15456.9	14797.8	14655.8	12673.3	11078.2
70°	11817.9	12925.7	18717.3	18915.3	18584.0	13111.6	12245.6	11293.8	9472.6	8086.0
72.5°	10527.8	11137.8	16005.6	15066.0	14690.9	10298.2	10115.9	8505.0	7100.9	5910.7
75°	9181.6	9004.5	12478.8	10340.2	10620.7	8012.4	8543.5	6245.5	5202.6	4254.2
77.5°	6678.5	6547.0	8357.7	6280.6	6955.4	5248.1	4715.3	2492.6	2373.4	2047.4
80°	3726.6	4492.6	4513.7	3519.8	4391.0	3421.6	1179.7	82.4	52.6	77.1
82.5°	1731.8	1931.7	2447.0	1631.9	2504.9	1695.0	243.7	0.0	0.0	0.0
85°	560.9	820.3	687.1	240.1	606.5	573.2	40.3	0.0	0.0	0.0
87.5°	33.3	68.4	17.5	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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