

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: P638371

Luminaire Tested: GWS-SA4E-760-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638371
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-SA4E-760-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18693.8 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

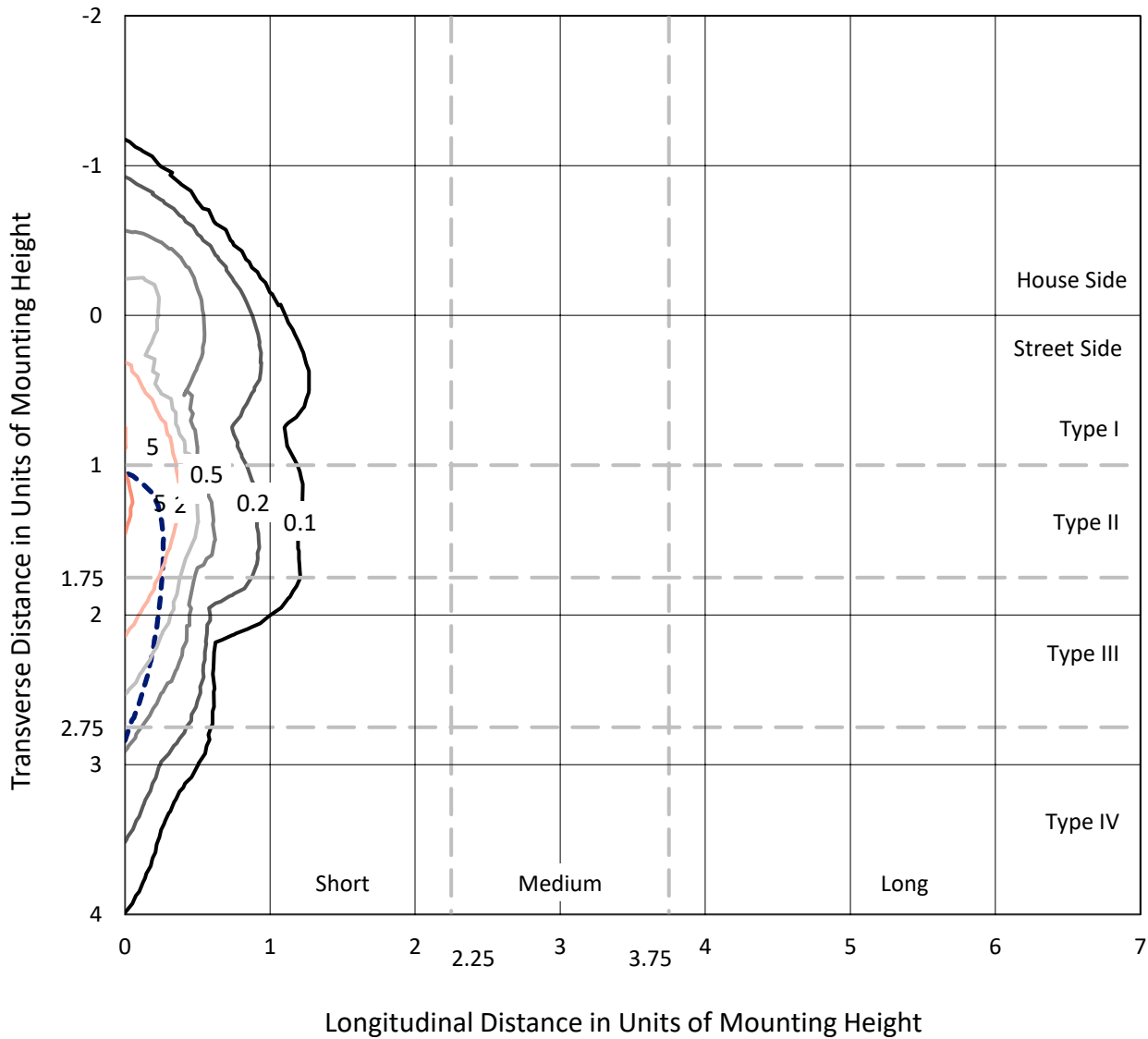
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

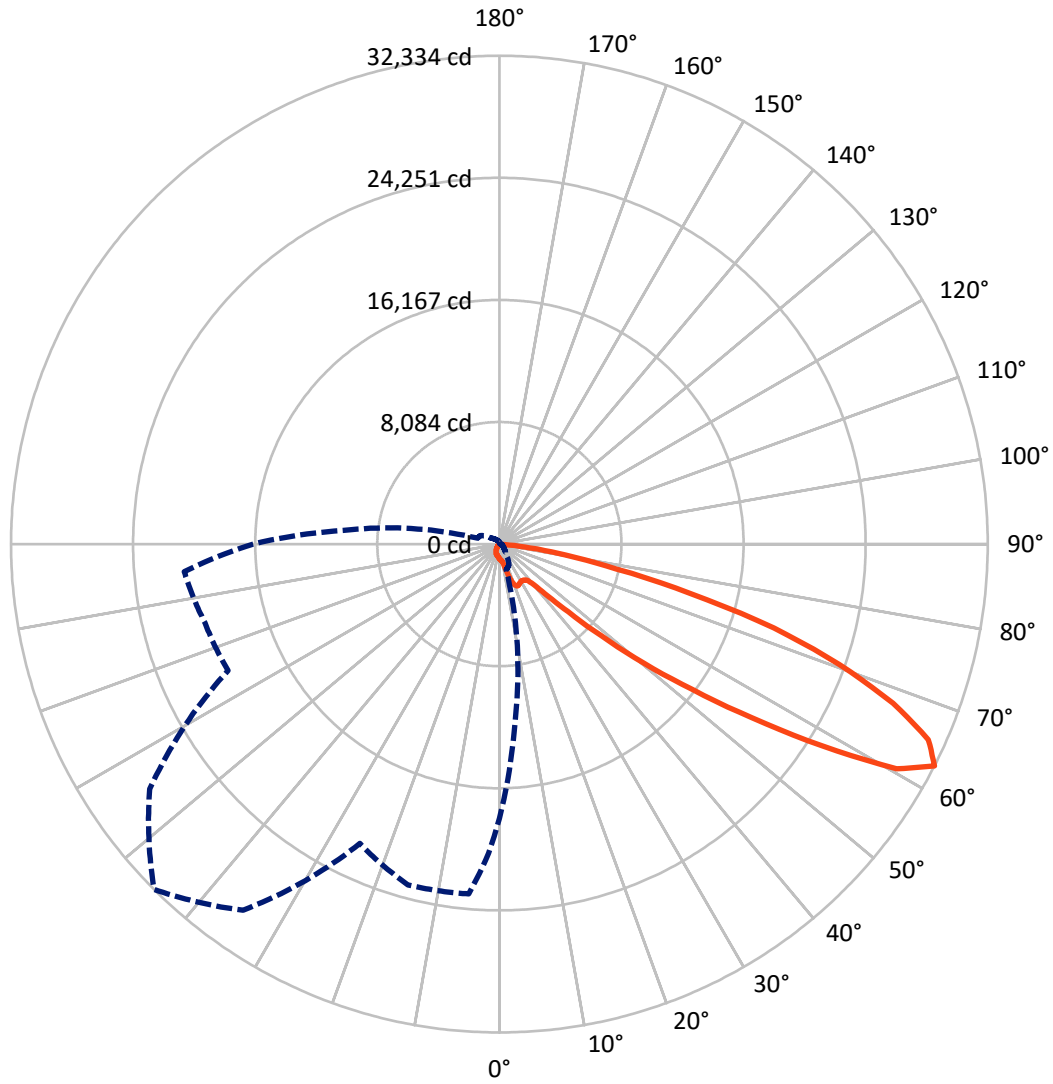
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	2172.0	0.0	2172.0
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	16521.8	0.0	16521.8
	% Fixture	88.4	0.0	88.4
Total	Lumens	18693.8	0.0	18693.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.7	0.4
10°-20°	286.9	1.5
20°-30°	648.3	3.5
30°-40°	1116.8	6.0
40°-50°	2106.6	11.3
50°-60°	4703.5	25.2
60°-70°	6290.9	33.7
70°-80°	3154.7	16.9
80°-90°	302.4	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°	18693.8	100.0
0°-180°	18693.8	100.0

Coefficient of Utilization



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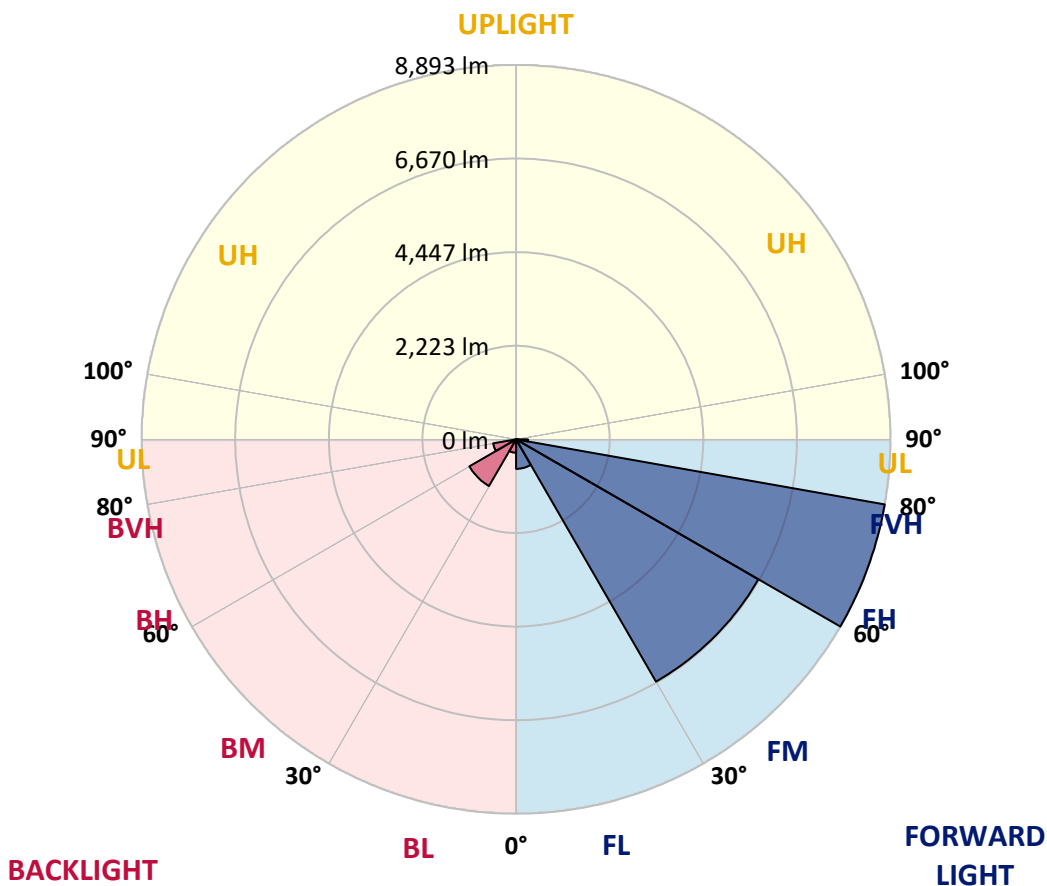
CATALOG NUMBER: GWS-SA4E-760-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	700.1	3.7			
FM (30°-60°)	6646.2	35.6			
FH (60°-80°)	8893.3	47.6			G4/12000
FVH (80°-90°)	282.3	1.5			G3/500
BL (0°-30°)	318.8	1.7	B1/500		
BM (30°-60°)	1280.7	6.9	B2/2500		
BH (60°-80°)	552.3	3.0	B2/1000		G2/1000
BVH (80°-90°)	20.1	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5
2.5°	958.4	956.2	951.8	938.5	927.4	920.8	907.5	907.5	905.3	900.9	892.0
5°	927.4	918.6	909.7	885.4	858.8	843.3	825.6	823.4	823.4	819.0	816.8
7.5°	878.7	869.9	858.8	819.0	794.6	779.1	763.6	761.4	754.8	754.8	754.8
10°	852.2	838.9	821.2	776.9	752.6	739.3	728.2	721.6	717.2	710.5	708.3
12.5°	909.7	885.4	847.7	768.1	734.9	717.2	703.9	699.4	686.2	677.3	670.7
15°	1089.0	1029.3	954.0	788.0	728.2	701.7	684.0	675.1	664.0	648.5	637.5
17.5°	1383.4	1297.1	1170.9	852.2	721.6	688.4	666.2	650.8	635.3	617.6	604.3
20°	1790.7	1662.3	1511.8	969.5	721.6	672.9	646.3	626.4	604.3	584.3	568.9
22.5°	2308.6	2180.2	1923.5	1168.7	730.4	653.0	622.0	595.4	568.9	551.1	533.4
25°	2888.5	2707.0	2468.0	1410.0	754.8	626.4	593.2	566.6	542.3	520.2	500.2
27.5°	3534.9	3337.9	3019.1	1753.0	807.9	599.8	562.2	537.9	515.7	493.6	467.0
30°	4130.3	4013.0	3687.6	2164.7	894.2	582.1	537.9	515.7	493.6	464.8	440.5
32.5°	4845.2	4637.2	4369.3	2634.0	1009.3	564.4	517.9	487.0	469.2	442.7	416.1
35°	5564.6	5387.5	5035.6	3211.7	1137.7	546.7	493.6	464.8	449.3	418.3	389.6
37.5°	6306.1	6266.3	5918.7	3851.4	1263.9	526.8	464.8	447.1	431.6	396.2	363.0
40°	7036.5	6963.5	6642.5	4581.8	1341.3	504.7	440.5	429.4	411.7	371.9	334.2
42.5°	7736.0	7680.6	7368.5	5281.3	1330.3	484.7	416.1	402.8	389.6	349.7	303.2
45°	8594.8	8504.0	8110.0	5799.2	1217.4	506.9	391.8	369.6	367.4	329.8	272.3
47.5°	10201.8	9902.9	9234.5	6197.6	1104.5	564.4	365.2	338.7	354.2	309.9	241.3
50°	12452.8	12100.9	11133.6	6507.5	1102.3	639.7	360.8	309.9	343.1	294.4	214.7
52.5°	14715.0	14095.2	12919.9	6673.5	1184.2	695.0	400.6	281.1	329.8	278.9	194.8
55°	16881.9	15595.9	13668.0	6124.6	1248.4	754.8	473.7	265.6	305.5	261.2	183.7
57.5°	18947.1	16802.2	13993.4	4845.2	1463.1	779.1	517.9	272.3	270.0	239.1	174.9
60°	19230.4	16744.7	13336.0	2817.7	1613.6	737.1	500.2	303.2	236.8	212.5	159.4
62.5°	18159.1	15631.3	11837.5	1757.5	1498.5	721.6	444.9	345.3	214.7	188.1	139.4
65°	16532.2	13884.9	9869.7	1133.3	1135.5	801.3	389.6	338.7	201.4	166.0	119.5
67.5°	13988.9	11620.6	7775.8	759.2	641.9	684.0	340.9	232.4	197.0	141.7	93.0
70°	10210.6	8271.6	5062.1	506.9	382.9	546.7	285.5	166.0	185.9	117.3	66.4
72.5°	7463.7	5558.0	2826.6	332.0	216.9	318.7	210.3	119.5	143.9	86.3	46.5
75°	5372.0	3824.8	1613.6	212.5	143.9	174.9	137.2	81.9	93.0	68.6	42.1
77.5°	2585.3	1863.7	732.6	117.3	97.4	88.5	73.0	50.9	57.5	62.0	37.6
80°	97.4	73.0	55.3	57.5	62.0	39.8	33.2	26.6	33.2	42.1	19.9
82.5°	0.0	0.0	0.0	6.6	8.9	11.1	13.3	11.1	13.3	15.5	2.2
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°	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5
2.5°	898.7	894.2	898.7	903.1	907.5	911.9	905.3	909.7	914.2	903.1	907.5
5°	827.8	825.6	838.9	845.5	854.4	858.8	854.4	854.4	852.2	838.9	838.9
7.5°	765.9	768.1	779.1	794.6	805.7	812.3	807.9	805.7	799.1	779.1	779.1
10°	719.4	719.4	737.1	750.4	765.9	772.5	768.1	761.4	754.8	734.9	732.6
12.5°	681.7	681.7	695.0	717.2	734.9	743.7	741.5	732.6	721.6	701.7	699.4
15°	646.3	644.1	664.0	684.0	708.3	719.4	714.9	708.3	688.4	670.7	666.2
17.5°	610.9	608.7	626.4	653.0	679.5	695.0	692.8	677.3	659.6	637.5	633.0
20°	575.5	571.1	593.2	619.8	646.3	661.8	657.4	644.1	622.0	599.8	595.4
22.5°	540.1	537.9	553.4	575.5	599.8	613.1	610.9	599.8	577.7	557.8	557.8
25°	500.2	500.2	511.3	526.8	544.5	551.1	553.4	548.9	535.7	524.6	524.6
27.5°	467.0	460.4	464.8	469.2	478.1	489.2	489.2	493.6	495.8	491.4	493.6
30°	440.5	429.4	422.8	413.9	409.5	413.9	418.3	433.8	449.3	458.2	462.6
32.5°	409.5	396.2	378.5	354.2	338.7	334.2	347.5	376.3	405.1	425.0	436.0
35°	378.5	360.8	327.6	292.2	272.3	265.6	281.1	314.3	356.4	391.8	407.3
37.5°	347.5	323.2	276.7	234.6	212.5	208.1	223.6	259.0	307.7	356.4	376.3
40°	312.1	283.3	228.0	183.7	166.0	161.6	174.9	210.3	261.2	316.5	347.5
42.5°	276.7	241.3	183.7	146.1	128.4	128.4	146.1	172.6	219.1	278.9	316.5
45°	241.3	203.6	150.5	117.3	106.2	108.5	119.5	146.1	183.7	245.7	281.1
47.5°	208.1	174.9	124.0	97.4	88.5	90.8	104.0	126.2	157.2	212.5	250.1
50°	179.3	148.3	108.5	81.9	75.3	79.7	93.0	112.9	139.4	188.1	219.1
52.5°	161.6	132.8	99.6	70.8	66.4	70.8	84.1	101.8	126.2	166.0	197.0
55°	152.7	130.6	99.6	64.2	57.5	62.0	75.3	93.0	112.9	150.5	177.1
57.5°	150.5	135.0	106.2	57.5	48.7	53.1	66.4	84.1	104.0	137.2	159.4
60°	141.7	128.4	104.0	46.5	37.6	44.3	55.3	73.0	95.2	128.4	148.3
62.5°	124.0	112.9	90.8	37.6	28.8	33.2	46.5	64.2	86.3	117.3	139.4
65°	101.8	90.8	70.8	24.3	17.7	22.1	35.4	55.3	75.3	106.2	126.2
67.5°	75.3	64.2	48.7	15.5	8.9	15.5	28.8	46.5	68.6	95.2	115.1
70°	46.5	37.6	26.6	8.9	6.6	13.3	26.6	44.3	62.0	88.5	108.5
72.5°	26.6	17.7	11.1	4.4	6.6	13.3	26.6	44.3	59.8	84.1	101.8
75°	19.9	11.1	4.4	2.2	4.4	11.1	24.3	39.8	57.5	79.7	97.4
77.5°	13.3	6.6	2.2	0.0	2.2	8.9	22.1	37.6	53.1	75.3	93.0
80°	2.2	0.0	0.0	0.0	0.0	6.6	19.9	33.2	48.7	66.4	81.9
82.5°	0.0	0.0	0.0	0.0	0.0	2.2	15.5	28.8	42.1	55.3	66.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	8.9	22.1	33.2	42.1	46.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	22.1	26.6	31.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5
2.5°	905.3	918.6	918.6	927.4	938.5	958.4	969.5	985.0	996.0	1007.1	1011.5
5°	836.7	838.9	841.1	845.5	858.8	880.9	900.9	925.2	954.0	976.1	989.4
7.5°	779.1	779.1	779.1	785.8	799.1	814.5	834.5	867.7	900.9	927.4	949.6
10°	730.4	737.1	739.3	750.4	765.9	785.8	807.9	836.7	874.3	909.7	949.6
12.5°	699.4	706.1	717.2	728.2	743.7	765.9	790.2	827.8	905.3	978.3	1062.5
15°	670.7	679.5	692.8	708.3	726.0	750.4	776.9	854.4	1035.9	1173.1	1305.9
17.5°	639.7	653.0	670.7	686.2	708.3	734.9	768.1	918.6	1274.9	1502.9	1728.7
20°	599.8	617.6	637.5	661.8	688.4	719.4	768.1	1051.4	1620.2	1947.8	2246.6
22.5°	562.2	579.9	604.3	635.3	666.2	697.2	779.1	1252.8	2065.1	2479.1	2857.6
25°	531.2	553.4	577.7	604.3	639.7	675.1	805.7	1536.1	2600.8	3134.2	3402.1
27.5°	502.5	529.0	553.4	575.5	606.5	646.3	865.5	1914.6	3233.8	3776.1	3986.4
30°	473.7	504.7	529.0	551.1	582.1	624.2	956.2	2397.2	3937.7	4464.5	4486.6
32.5°	449.3	478.1	506.9	529.0	557.8	606.5	1082.4	2961.6	4659.3	5168.4	4960.3
35°	422.8	456.0	482.5	506.9	537.9	591.0	1228.5	3570.3	5387.5	5814.7	5431.8
37.5°	396.2	433.8	467.0	484.7	515.7	575.5	1334.7	4205.5	6131.2	6445.5	5845.7
40°	371.9	413.9	451.5	469.2	484.7	555.6	1350.2	4856.3	6886.0	7067.5	6235.3
42.5°	345.3	391.8	425.0	449.3	462.6	542.3	1257.2	5405.2	7519.1	7687.3	6744.4
45°	316.5	371.9	398.4	416.1	442.7	551.1	1137.7	5830.2	8242.9	8532.8	7583.3
47.5°	287.7	349.7	371.9	385.1	420.6	604.3	1093.4	6113.5	9435.9	10038.0	8997.6
50°	261.2	329.8	354.2	351.9	416.1	672.9	1142.1	6328.2	11228.8	11937.1	10936.6
52.5°	232.4	307.7	336.4	327.6	449.3	726.0	1239.5	6498.7	12607.8	14163.8	13541.8
55°	208.1	283.3	309.9	307.7	511.3	765.9	1314.8	5600.0	13178.8	16233.4	16476.9
57.5°	190.4	256.8	278.9	316.5	551.1	765.9	1520.6	3975.3	13189.9	17756.2	20372.5
60°	174.9	232.4	247.9	347.5	535.7	726.0	1505.1	2434.8	12156.2	17652.2	22444.3
62.5°	161.6	210.3	230.2	356.4	473.7	719.4	1359.1	1509.6	10367.8	16308.6	20941.4
65°	150.5	192.6	221.3	327.6	429.4	770.3	916.4	1084.6	8408.9	14776.9	19217.1
67.5°	139.4	177.1	234.6	267.8	389.6	688.4	661.8	770.3	6600.5	13096.9	17634.5
70°	130.6	168.2	247.9	219.1	340.9	537.9	469.2	584.3	5053.3	10927.8	15405.6
72.5°	124.0	157.2	208.1	172.6	276.7	416.1	327.6	425.0	3302.5	8530.6	12559.1
75°	117.3	143.9	152.7	139.4	205.9	272.3	247.9	285.5	1967.7	6235.3	9528.9
77.5°	115.1	135.0	124.0	112.9	139.4	161.6	188.1	192.6	960.6	3118.7	4993.5
80°	101.8	121.7	106.2	93.0	95.2	106.2	139.4	128.4	219.1	792.4	1332.5
82.5°	79.7	95.2	88.5	77.5	77.5	77.5	93.0	86.3	70.8	356.4	602.1
85°	55.3	66.4	66.4	62.0	59.8	59.8	57.5	55.3	19.9	22.1	33.2
87.5°	37.6	46.5	48.7	46.5	39.8	35.4	31.0	26.6	8.9	0.0	4.4
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°	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5	969.5
2.5°	1027.0	1033.7	1033.7	1024.8	1018.2	1000.5	982.8	965.1	960.6	958.4
5°	1027.0	1053.6	1066.9	1064.7	1049.2	1020.4	982.8	942.9	931.9	927.4
7.5°	1011.5	1062.5	1102.3	1108.9	1080.2	1029.3	960.6	900.9	885.4	878.7
10°	1047.0	1146.6	1226.2	1237.3	1204.1	1104.5	993.8	892.0	867.7	852.2
12.5°	1237.3	1401.1	1498.5	1545.0	1480.8	1354.6	1170.9	989.4	934.1	909.7
15°	1622.5	1854.9	2040.8	2040.8	1981.0	1757.5	1525.1	1230.7	1155.4	1089.0
17.5°	2116.0	2408.2	2572.0	2554.3	2463.6	2306.4	2027.5	1604.7	1452.0	1383.4
20°	2678.3	2853.1	2890.8	2879.7	2839.8	2749.1	2556.5	2102.8	1896.9	1790.7
22.5°	3165.2	3118.7	3063.4	3019.1	3008.1	3034.6	3008.1	2658.3	2496.8	2308.6
25°	3495.0	3231.6	3065.6	2985.9	3023.6	3176.3	3342.3	3211.7	3083.3	2888.5
27.5°	3674.3	3218.3	2979.3	2897.4	2961.6	3178.5	3539.3	3760.6	3627.8	3534.9
30°	3771.7	3207.3	2924.0	2844.3	2941.7	3213.9	3676.5	4274.2	4278.6	4130.3
32.5°	3911.2	3278.1	2935.0	2862.0	2992.6	3320.2	3849.2	4796.5	4924.9	4845.2
35°	4068.3	3386.6	2985.9	2919.5	3081.1	3461.8	4041.7	5323.3	5591.2	5564.6
37.5°	4216.6	3508.3	3105.5	3041.3	3216.1	3583.6	4227.7	5841.3	6213.1	6306.1
40°	4371.5	3678.7	3472.9	3534.9	3632.3	3776.1	4393.7	6290.6	6897.1	7036.5
42.5°	4736.8	4269.7	4584.0	4701.3	4714.6	4418.0	4756.7	6866.1	7570.0	7736.0
45°	5551.3	5321.1	6222.0	6388.0	6301.7	5403.0	5631.0	7696.1	8510.7	8594.8
47.5°	6580.6	6686.8	8464.2	9037.5	8519.5	6565.1	6691.2	9442.5	10232.7	10201.8
50°	7780.2	8282.7	11009.7	12362.1	11122.5	8074.6	7913.1	11589.6	12548.0	12452.8
52.5°	9199.1	10137.6	14068.6	15989.9	14816.8	9772.3	9705.9	14433.9	15018.2	14715.0
55°	10985.3	11928.2	17588.0	20272.9	18604.0	11844.1	12072.1	17731.9	17844.8	16881.9
57.5°	13650.3	14263.4	21736.0	25184.5	22557.2	14659.6	16313.1	22121.1	20770.9	18947.1
60°	18488.9	17267.1	25744.5	30209.0	26762.7	18619.5	21906.4	24721.9	21744.8	19230.4
62.5°	20173.3	19816.9	28254.6	32334.0	29591.5	21871.0	23360.7	23247.8	20483.2	18159.1
65°	17621.2	19181.7	27805.3	31211.7	29228.5	21335.4	20963.5	21620.9	19062.2	16532.2
67.5°	16277.6	17689.8	26103.1	28115.1	27216.5	19518.1	18685.9	18506.6	16003.2	13988.9
70°	14923.0	16321.9	23635.1	23885.2	23466.9	16556.5	15463.1	14261.2	11961.4	10210.6
72.5°	13293.9	14064.2	20210.9	19024.5	18550.9	13004.0	12773.8	10739.6	8966.7	7463.7
75°	11594.0	11370.4	15757.5	13057.1	13411.2	10117.6	10788.3	7886.5	6569.5	5372.0
77.5°	8433.2	8267.2	10553.7	7930.8	8782.9	6627.0	5954.2	3147.5	2997.0	2585.3
80°	4705.8	5673.1	5699.6	4444.6	5544.7	4320.6	1489.6	104.0	66.4	97.4
82.5°	2186.9	2439.2	3090.0	2060.7	3163.0	2140.4	307.7	0.0	0.0	0.0
85°	708.3	1035.9	867.7	303.2	765.9	723.8	50.9	0.0	0.0	0.0
87.5°	42.1	86.3	22.1	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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