

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: P628803

Luminaire Tested: GWS-SA1A-735-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P628803
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-SA1A-735-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1698.2 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

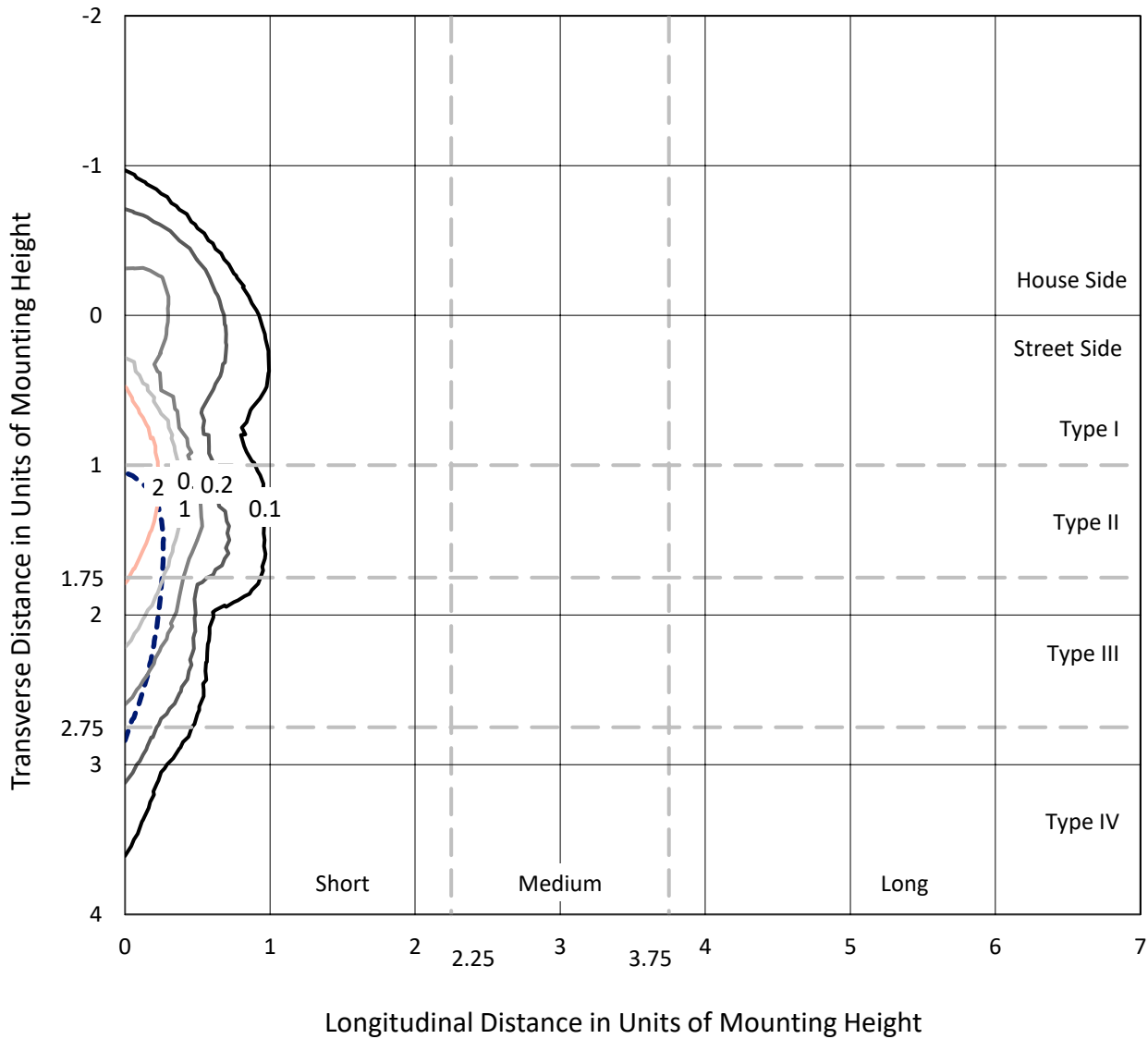
Input Watts (W): 19.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

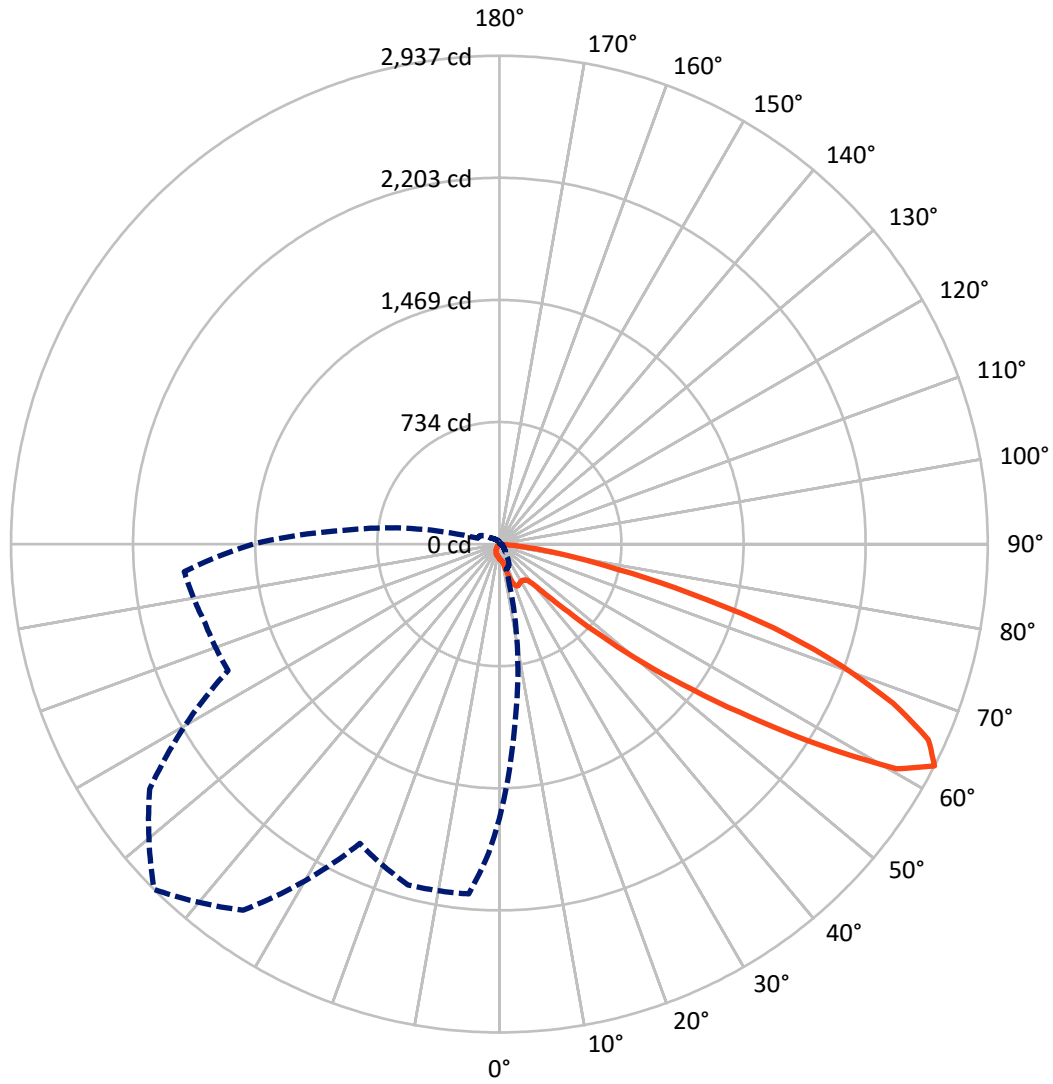
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 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	197.3	0.0	197.3
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	1500.9	0.0	1500.9
	% Fixture	88.4	0.0	88.4
Total	Lumens	1698.2	0.0	1698.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.6	0.4
10°-20°	26.1	1.5
20°-30°	58.9	3.5
30°-40°	101.5	6.0
40°-50°	191.4	11.3
50°-60°	427.3	25.2
60°-70°	571.5	33.7
70°-80°	286.6	16.9
80°-90°	27.5	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°	1698.2	100.0
0°-180°	1698.2	100.0

Coefficient of Utilization



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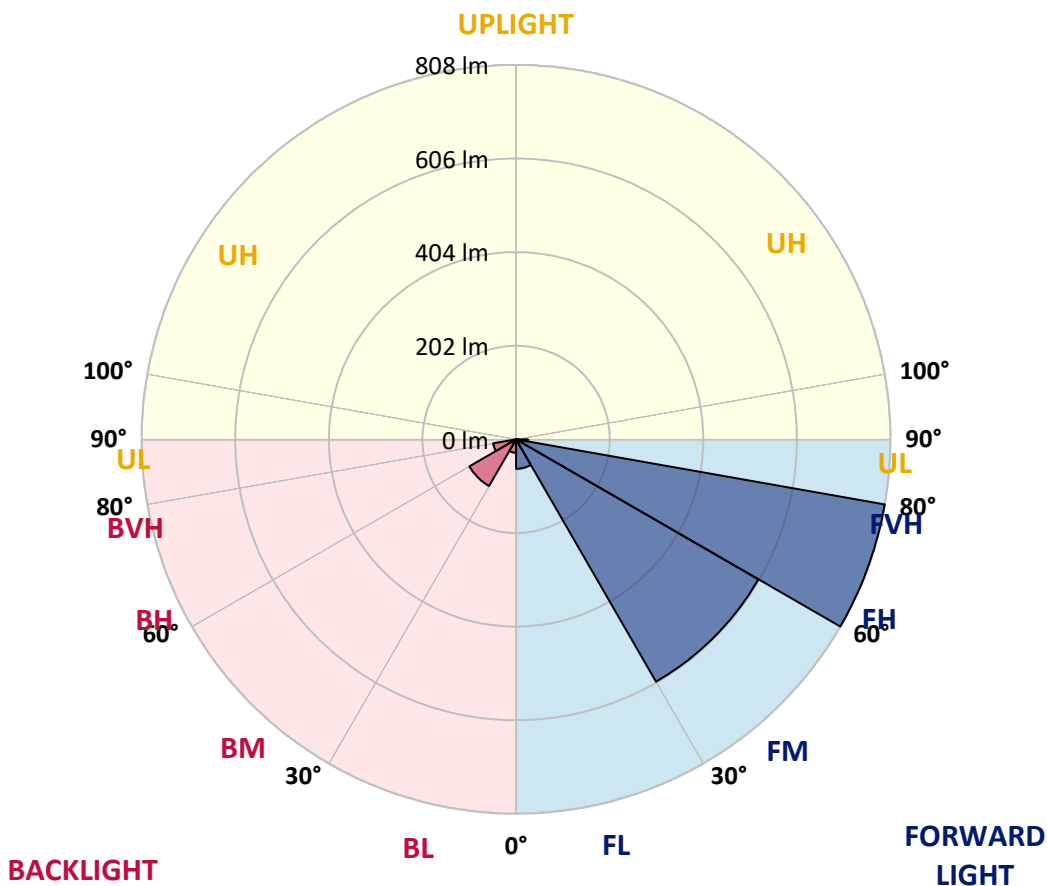
CATALOG NUMBER: GWS-SA1A-735-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	63.6	3.7			
FM (30°-60°)	603.8	35.6			
FH (60°-80°)	807.9	47.6			G1/1800
FVH (80°-90°)	25.6	1.5			G1/100
BL (0°-30°)	29.0	1.7	B0/110		
BM (30°-60°)	116.3	6.9	B0/220		
BH (60°-80°)	50.2	3.0	B0/110		G0/110
BVH (80°-90°)	1.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
2.5°	87.1	86.9	86.5	85.3	84.3	83.6	82.4	82.4	82.2	81.8	81.0
5°	84.3	83.4	82.6	80.4	78.0	76.6	75.0	74.8	74.8	74.4	74.2
7.5°	79.8	79.0	78.0	74.4	72.2	70.8	69.4	69.2	68.6	68.6	68.6
10°	77.4	76.2	74.6	70.6	68.4	67.2	66.2	65.6	65.1	64.5	64.3
12.5°	82.6	80.4	77.0	69.8	66.8	65.1	63.9	63.5	62.3	61.5	60.9
15°	98.9	93.5	86.7	71.6	66.2	63.7	62.1	61.3	60.3	58.9	57.9
17.5°	125.7	117.8	106.4	77.4	65.6	62.5	60.5	59.1	57.7	56.1	54.9
20°	162.7	151.0	137.3	88.1	65.6	61.1	58.7	56.9	54.9	53.1	51.7
22.5°	209.7	198.1	174.7	106.2	66.4	59.3	56.5	54.1	51.7	50.1	48.5
25°	262.4	245.9	224.2	128.1	68.6	56.9	53.9	51.5	49.3	47.3	45.4
27.5°	321.1	303.2	274.3	159.3	73.4	54.5	51.1	48.9	46.9	44.8	42.4
30°	375.2	364.5	335.0	196.7	81.2	52.9	48.9	46.9	44.8	42.2	40.0
32.5°	440.2	421.3	396.9	239.3	91.7	51.3	47.1	44.2	42.6	40.2	37.8
35°	505.5	489.4	457.4	291.8	103.4	49.7	44.8	42.2	40.8	38.0	35.4
37.5°	572.9	569.2	537.7	349.9	114.8	47.9	42.2	40.6	39.2	36.0	33.0
40°	639.2	632.6	603.4	416.2	121.9	45.8	40.0	39.0	37.4	33.8	30.4
42.5°	702.8	697.7	669.4	479.8	120.8	44.0	37.8	36.6	35.4	31.8	27.5
45°	780.8	772.5	736.7	526.8	110.6	46.0	35.6	33.6	33.4	30.0	24.7
47.5°	926.8	899.6	838.9	563.0	100.3	51.3	33.2	30.8	32.2	28.2	21.9
50°	1131.3	1099.3	1011.4	591.2	100.1	58.1	32.8	28.2	31.2	26.7	19.5
52.5°	1336.8	1280.4	1173.7	606.2	107.6	63.1	36.4	25.5	30.0	25.3	17.7
55°	1533.6	1416.8	1241.6	556.4	113.4	68.6	43.0	24.1	27.7	23.7	16.7
57.5°	1721.2	1526.4	1271.2	440.2	132.9	70.8	47.1	24.7	24.5	21.7	15.9
60°	1746.9	1521.1	1211.5	256.0	146.6	67.0	45.4	27.5	21.5	19.3	14.5
62.5°	1649.6	1420.0	1075.4	159.7	136.1	65.6	40.4	31.4	19.5	17.1	12.7
65°	1501.8	1261.3	896.6	103.0	103.2	72.8	35.4	30.8	18.3	15.1	10.9
67.5°	1270.8	1055.6	706.4	69.0	58.3	62.1	31.0	21.1	17.9	12.9	8.4
70°	927.6	751.4	459.9	46.0	34.8	49.7	25.9	15.1	16.9	10.7	6.0
72.5°	678.0	504.9	256.8	30.2	19.7	29.0	19.1	10.9	13.1	7.8	4.2
75°	488.0	347.5	146.6	19.3	13.1	15.9	12.5	7.4	8.4	6.2	3.8
77.5°	234.9	169.3	66.6	10.7	8.8	8.0	6.6	4.6	5.2	5.6	3.4
80°	8.8	6.6	5.0	5.2	5.6	3.6	3.0	2.4	3.0	3.8	1.8
82.5°	0.0	0.0	0.0	0.6	0.8	1.0	1.2	1.0	1.2	1.4	0.2
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°	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
2.5°	81.6	81.2	81.6	82.0	82.4	82.8	82.2	82.6	83.0	82.0	82.4
5°	75.2	75.0	76.2	76.8	77.6	78.0	77.6	77.6	77.4	76.2	76.2
7.5°	69.6	69.8	70.8	72.2	73.2	73.8	73.4	73.2	72.6	70.8	70.8
10°	65.3	65.3	67.0	68.2	69.6	70.2	69.8	69.2	68.6	66.8	66.6
12.5°	61.9	61.9	63.1	65.1	66.8	67.6	67.4	66.6	65.6	63.7	63.5
15°	58.7	58.5	60.3	62.1	64.3	65.3	64.9	64.3	62.5	60.9	60.5
17.5°	55.5	55.3	56.9	59.3	61.7	63.1	62.9	61.5	59.9	57.9	57.5
20°	52.3	51.9	53.9	56.3	58.7	60.1	59.7	58.5	56.5	54.5	54.1
22.5°	49.1	48.9	50.3	52.3	54.5	55.7	55.5	54.5	52.5	50.7	50.7
25°	45.4	45.4	46.4	47.9	49.5	50.1	50.3	49.9	48.7	47.7	47.7
27.5°	42.4	41.8	42.2	42.6	43.4	44.4	44.4	44.8	45.0	44.6	44.8
30°	40.0	39.0	38.4	37.6	37.2	37.6	38.0	39.4	40.8	41.6	42.0
32.5°	37.2	36.0	34.4	32.2	30.8	30.4	31.6	34.2	36.8	38.6	39.6
35°	34.4	32.8	29.8	26.5	24.7	24.1	25.5	28.6	32.4	35.6	37.0
37.5°	31.6	29.4	25.1	21.3	19.3	18.9	20.3	23.5	27.9	32.4	34.2
40°	28.4	25.7	20.7	16.7	15.1	14.7	15.9	19.1	23.7	28.8	31.6
42.5°	25.1	21.9	16.7	13.3	11.7	11.7	13.3	15.7	19.9	25.3	28.8
45°	21.9	18.5	13.7	10.7	9.7	9.9	10.9	13.3	16.7	22.3	25.5
47.5°	18.9	15.9	11.3	8.8	8.0	8.2	9.5	11.5	14.3	19.3	22.7
50°	16.3	13.5	9.9	7.4	6.8	7.2	8.4	10.3	12.7	17.1	19.9
52.5°	14.7	12.1	9.0	6.4	6.0	6.4	7.6	9.2	11.5	15.1	17.9
55°	13.9	11.9	9.0	5.8	5.2	5.6	6.8	8.4	10.3	13.7	16.1
57.5°	13.7	12.3	9.7	5.2	4.4	4.8	6.0	7.6	9.5	12.5	14.5
60°	12.9	11.7	9.5	4.2	3.4	4.0	5.0	6.6	8.6	11.7	13.5
62.5°	11.3	10.3	8.2	3.4	2.6	3.0	4.2	5.8	7.8	10.7	12.7
65°	9.2	8.2	6.4	2.2	1.6	2.0	3.2	5.0	6.8	9.7	11.5
67.5°	6.8	5.8	4.4	1.4	0.8	1.4	2.6	4.2	6.2	8.6	10.5
70°	4.2	3.4	2.4	0.8	0.6	1.2	2.4	4.0	5.6	8.0	9.9
72.5°	2.4	1.6	1.0	0.4	0.6	1.2	2.4	4.0	5.4	7.6	9.2
75°	1.8	1.0	0.4	0.2	0.4	1.0	2.2	3.6	5.2	7.2	8.8
77.5°	1.2	0.6	0.2	0.0	0.2	0.8	2.0	3.4	4.8	6.8	8.4
80°	0.2	0.0	0.0	0.0	0.0	0.6	1.8	3.0	4.4	6.0	7.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.2	1.4	2.6	3.8	5.0	6.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.0	3.0	3.8	4.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	2.4	2.8
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°	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
2.5°	82.2	83.4	83.4	84.3	85.3	87.1	88.1	89.5	90.5	91.5	91.9
5°	76.0	76.2	76.4	76.8	78.0	80.0	81.8	84.0	86.7	88.7	89.9
7.5°	70.8	70.8	70.8	71.4	72.6	74.0	75.8	78.8	81.8	84.3	86.3
10°	66.4	67.0	67.2	68.2	69.6	71.4	73.4	76.0	79.4	82.6	86.3
12.5°	63.5	64.1	65.1	66.2	67.6	69.6	71.8	75.2	82.2	88.9	96.5
15°	60.9	61.7	62.9	64.3	66.0	68.2	70.6	77.6	94.1	106.6	118.6
17.5°	58.1	59.3	60.9	62.3	64.3	66.8	69.8	83.4	115.8	136.5	157.0
20°	54.5	56.1	57.9	60.1	62.5	65.3	69.8	95.5	147.2	176.9	204.1
22.5°	51.1	52.7	54.9	57.7	60.5	63.3	70.8	113.8	187.6	225.2	259.6
25°	48.3	50.3	52.5	54.9	58.1	61.3	73.2	139.5	236.3	284.7	309.1
27.5°	45.6	48.1	50.3	52.3	55.1	58.7	78.6	173.9	293.8	343.0	362.1
30°	43.0	45.8	48.1	50.1	52.9	56.7	86.9	217.8	357.7	405.6	407.6
32.5°	40.8	43.4	46.0	48.1	50.7	55.1	98.3	269.0	423.3	469.5	450.6
35°	38.4	41.4	43.8	46.0	48.9	53.7	111.6	324.3	489.4	528.2	493.4
37.5°	36.0	39.4	42.4	44.0	46.9	52.3	121.2	382.0	557.0	585.5	531.0
40°	33.8	37.6	41.0	42.6	44.0	50.5	122.7	441.2	625.5	642.0	566.4
42.5°	31.4	35.6	38.6	40.8	42.0	49.3	114.2	491.0	683.1	698.3	612.7
45°	28.8	33.8	36.2	37.8	40.2	50.1	103.4	529.6	748.8	775.1	688.9
47.5°	26.1	31.8	33.8	35.0	38.2	54.9	99.3	555.4	857.2	911.9	817.4
50°	23.7	30.0	32.2	32.0	37.8	61.1	103.8	574.9	1020.1	1084.4	993.5
52.5°	21.1	27.9	30.6	29.8	40.8	66.0	112.6	590.4	1145.3	1286.7	1230.2
55°	18.9	25.7	28.2	27.9	46.4	69.6	119.4	508.7	1197.2	1474.7	1496.8
57.5°	17.3	23.3	25.3	28.8	50.1	69.6	138.1	361.1	1198.2	1613.0	1850.7
60°	15.9	21.1	22.5	31.6	48.7	66.0	136.7	221.2	1104.3	1603.6	2038.9
62.5°	14.7	19.1	20.9	32.4	43.0	65.3	123.5	137.1	941.8	1481.5	1902.4
65°	13.7	17.5	20.1	29.8	39.0	70.0	83.2	98.5	763.9	1342.4	1745.7
67.5°	12.7	16.1	21.3	24.3	35.4	62.5	60.1	70.0	599.6	1189.8	1602.0
70°	11.9	15.3	22.5	19.9	31.0	48.9	42.6	53.1	459.1	992.7	1399.5
72.5°	11.3	14.3	18.9	15.7	25.1	37.8	29.8	38.6	300.0	774.9	1140.9
75°	10.7	13.1	13.9	12.7	18.7	24.7	22.5	25.9	178.8	566.4	865.6
77.5°	10.5	12.3	11.3	10.3	12.7	14.7	17.1	17.5	87.3	283.3	453.6
80°	9.2	11.1	9.7	8.4	8.6	9.7	12.7	11.7	19.9	72.0	121.0
82.5°	7.2	8.6	8.0	7.0	7.0	7.0	8.4	7.8	6.4	32.4	54.7
85°	5.0	6.0	6.0	5.6	5.4	5.4	5.2	5.0	1.8	2.0	3.0
87.5°	3.4	4.2	4.4	4.2	3.6	3.2	2.8	2.4	0.8	0.0	0.4
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°	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
2.5°	93.3	93.9	93.9	93.1	92.5	90.9	89.3	87.7	87.3	87.1
5°	93.3	95.7	96.9	96.7	95.3	92.7	89.3	85.7	84.7	84.3
7.5°	91.9	96.5	100.1	100.7	98.1	93.5	87.3	81.8	80.4	79.8
10°	95.1	104.2	111.4	112.4	109.4	100.3	90.3	81.0	78.8	77.4
12.5°	112.4	127.3	136.1	140.4	134.5	123.1	106.4	89.9	84.9	82.6
15°	147.4	168.5	185.4	185.4	180.0	159.7	138.5	111.8	105.0	98.9
17.5°	192.2	218.8	233.6	232.0	223.8	209.5	184.2	145.8	131.9	125.7
20°	243.3	259.2	262.6	261.6	258.0	249.7	232.2	191.0	172.3	162.7
22.5°	287.5	283.3	278.3	274.3	273.3	275.7	273.3	241.5	226.8	209.7
25°	317.5	293.6	278.5	271.3	274.7	288.5	303.6	291.8	280.1	262.4
27.5°	333.8	292.4	270.6	263.2	269.0	288.7	321.5	341.6	329.6	321.1
30°	342.6	291.4	265.6	258.4	267.2	292.0	334.0	388.3	388.7	375.2
32.5°	355.3	297.8	266.6	260.0	271.9	301.6	349.7	435.7	447.4	440.2
35°	369.6	307.6	271.3	265.2	279.9	314.5	367.2	483.6	507.9	505.5
37.5°	383.0	318.7	282.1	276.3	292.2	325.5	384.1	530.6	564.4	572.9
40°	397.1	334.2	315.5	321.1	330.0	343.0	399.1	571.5	626.6	639.2
42.5°	430.3	387.9	416.4	427.1	428.3	401.3	432.1	623.7	687.7	702.8
45°	504.3	483.4	565.2	580.3	572.5	490.8	511.5	699.1	773.1	780.8
47.5°	597.8	607.4	768.9	821.0	773.9	596.4	607.9	857.8	929.6	926.8
50°	706.8	752.4	1000.1	1123.0	1010.4	733.5	718.8	1052.8	1139.9	1131.3
52.5°	835.7	920.9	1278.0	1452.6	1346.0	887.7	881.7	1311.2	1364.3	1336.8
55°	997.9	1083.6	1597.7	1841.7	1690.0	1076.0	1096.7	1610.8	1621.1	1533.6
57.5°	1240.0	1295.7	1974.6	2287.8	2049.2	1331.7	1481.9	2009.5	1886.9	1721.2
60°	1679.6	1568.6	2338.7	2744.3	2431.2	1691.4	1990.0	2245.8	1975.4	1746.9
62.5°	1832.6	1800.2	2566.7	2937.3	2688.2	1986.8	2122.2	2111.9	1860.8	1649.6
65°	1600.8	1742.5	2525.9	2835.4	2655.2	1938.2	1904.4	1964.1	1731.7	1501.8
67.5°	1478.7	1607.0	2371.3	2554.1	2472.4	1773.1	1697.5	1681.2	1453.8	1270.8
70°	1355.7	1482.7	2147.1	2169.8	2131.8	1504.0	1404.7	1295.5	1086.6	927.6
72.5°	1207.7	1277.6	1836.0	1728.2	1685.2	1181.3	1160.4	975.6	814.6	678.0
75°	1053.2	1032.9	1431.5	1186.1	1218.3	919.1	980.0	716.4	596.8	488.0
77.5°	766.1	751.0	958.7	720.5	797.9	602.0	540.9	285.9	272.3	234.9
80°	427.5	515.4	517.8	403.8	503.7	392.5	135.3	9.5	6.0	8.8
82.5°	198.7	221.6	280.7	187.2	287.3	194.4	27.9	0.0	0.0	0.0
85°	64.3	94.1	78.8	27.5	69.6	65.8	4.6	0.0	0.0	0.0
87.5°	3.8	7.8	2.0	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

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