

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: P631331

Luminaire Tested: GWS-SA1F-740-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631331
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-SA1F-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5101 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

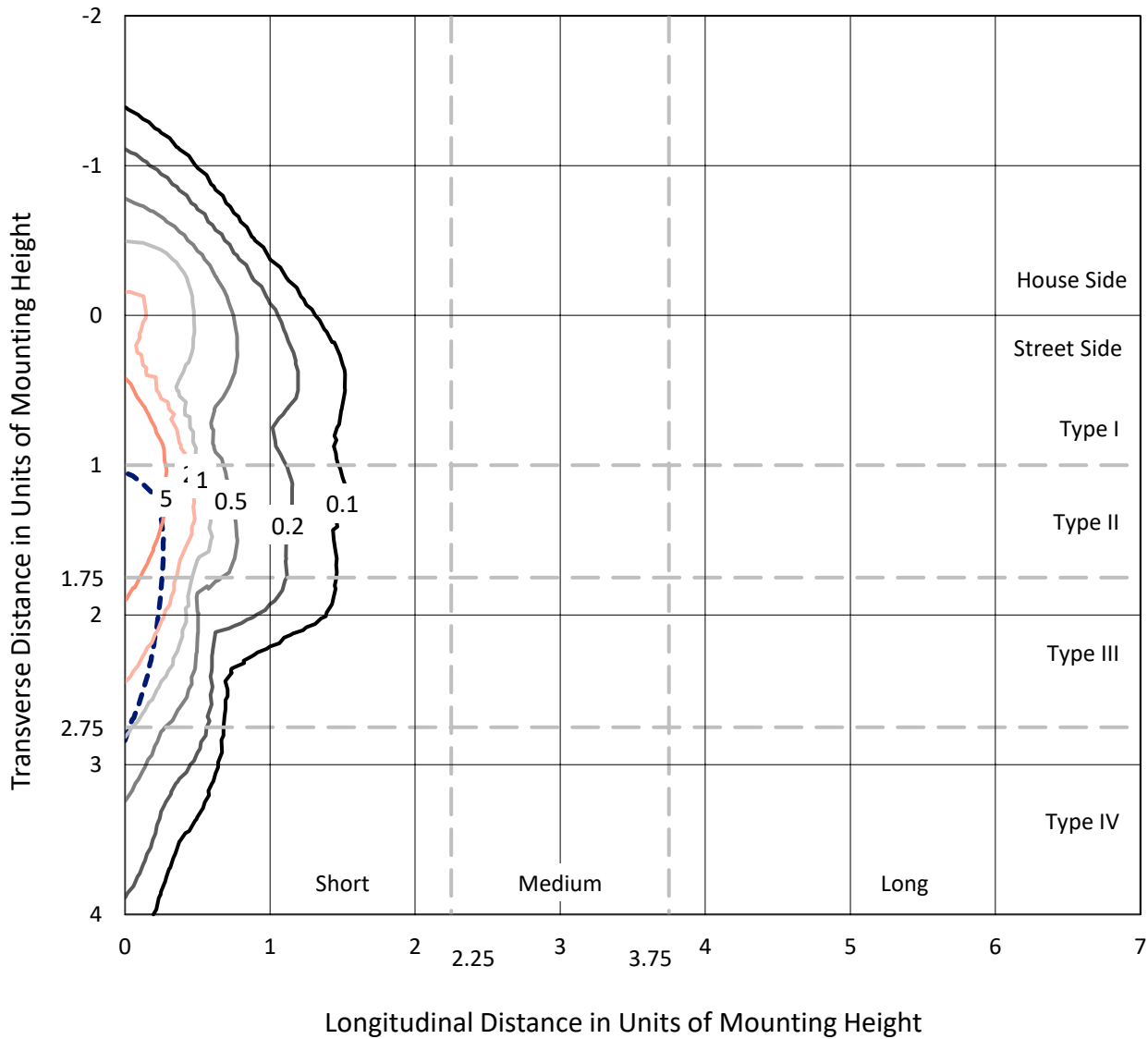
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

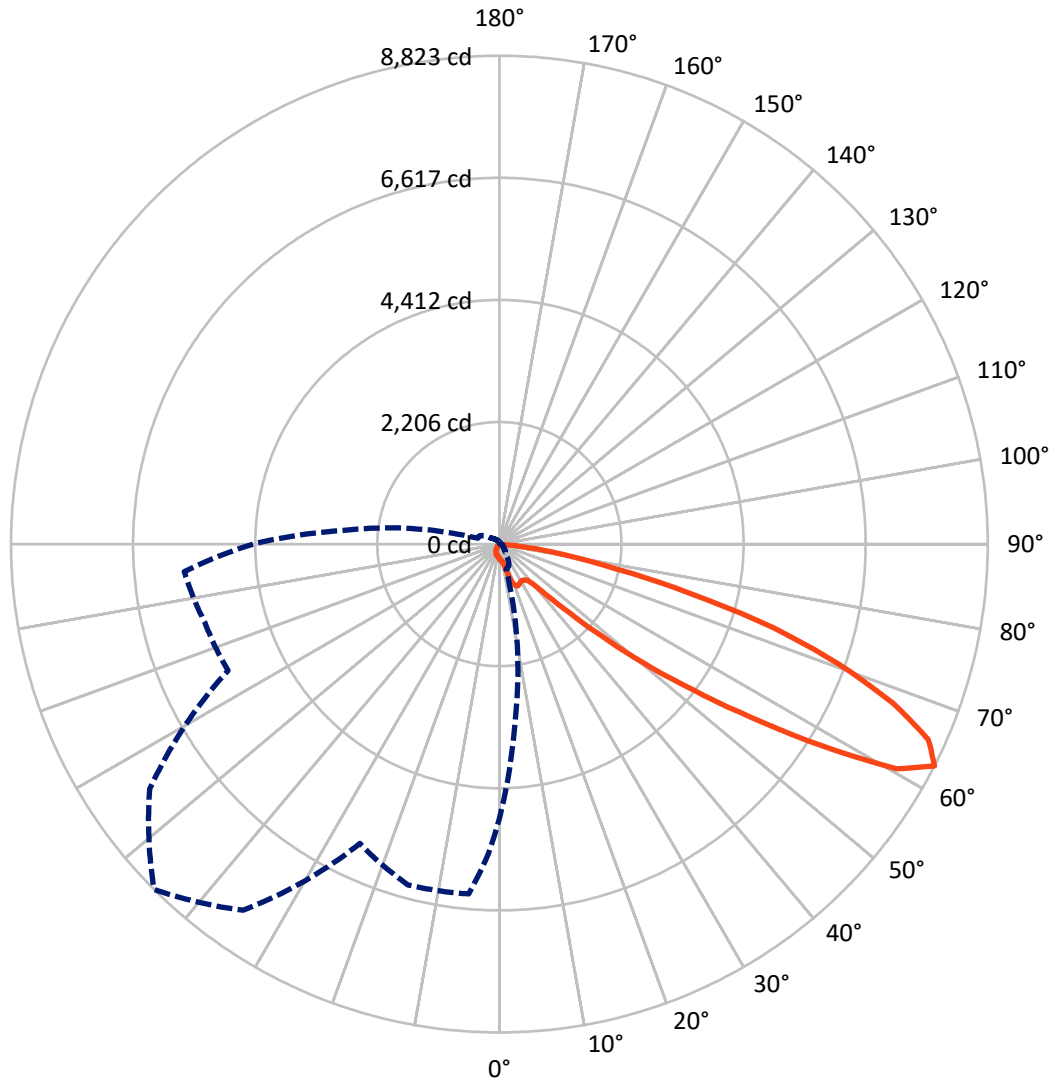
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 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	592.7	0.0	592.7
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	4508.3	0.0	4508.3
	% Fixture	88.4	0.0	88.4
Total	Lumens	5101.0	0.0	5101.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.8	0.4
10°-20°	78.3	1.5
20°-30°	176.9	3.5
30°-40°	304.7	6.0
40°-50°	574.8	11.3
50°-60°	1283.5	25.2
60°-70°	1716.6	33.7
70°-80°	860.8	16.9
80°-90°	82.5	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°	5101.0	100.0
0°-180°	5101.0	100.0

Coefficient of Utilization

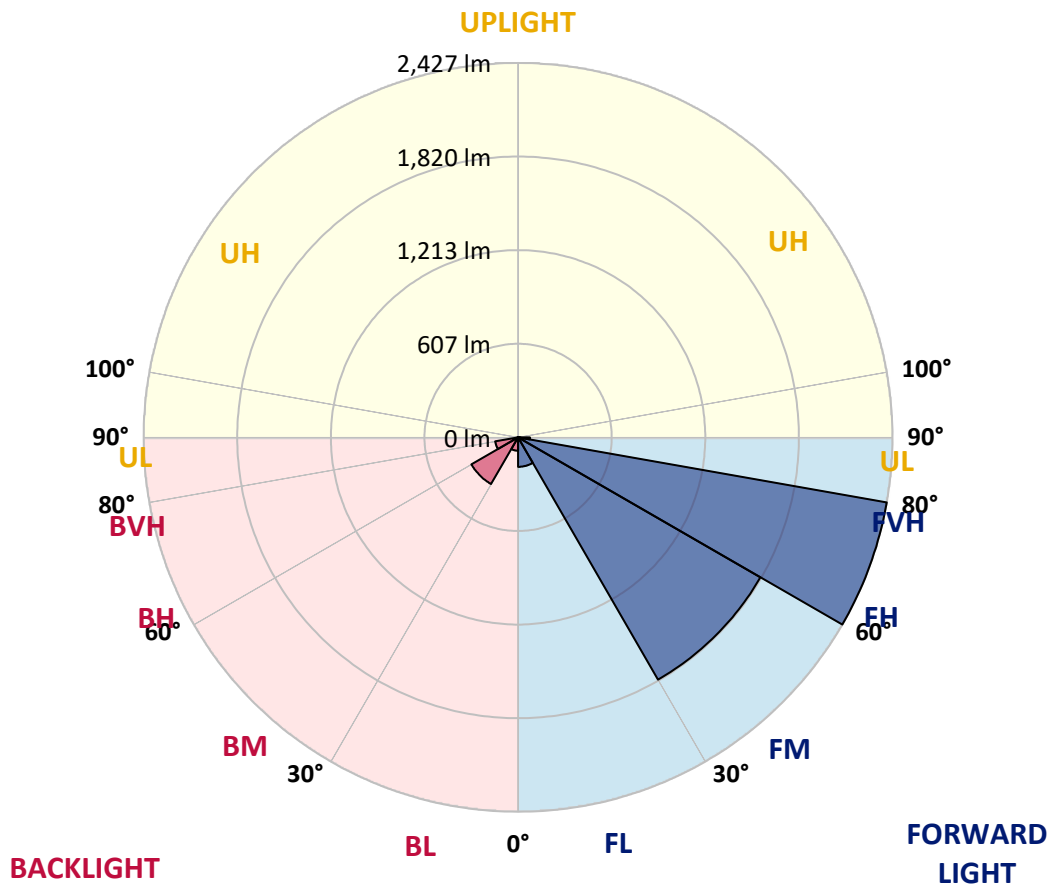


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	191.0	3.7			
FM (30°-60°)	1813.6	35.6			
FH (60°-80°)	2426.7	47.6			G2/5000
FVH (80°-90°)	77.0	1.5			G1/100
BL (0°-30°)	87.0	1.7	B0/110		
BM (30°-60°)	349.5	6.9	B1/1000		
BH (60°-80°)	150.7	3.0	B1/500		G1/500
BVH (80°-90°)	5.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	264.5	264.5	264.5	264.5	264.5	264.5	264.5	264.5	264.5	264.5	264.5
2.5°	261.5	260.9	259.7	256.1	253.1	251.3	247.6	247.6	247.0	245.8	243.4
5°	253.1	250.7	248.2	241.6	234.3	230.1	225.3	224.7	224.7	223.5	222.9
7.5°	239.8	237.4	234.3	223.5	216.8	212.6	208.4	207.8	206.0	206.0	206.0
10°	232.5	228.9	224.1	212.0	205.4	201.7	198.7	196.9	195.7	193.9	193.3
12.5°	248.2	241.6	231.3	209.6	200.5	195.7	192.1	190.9	187.2	184.8	183.0
15°	297.2	280.9	260.3	215.0	198.7	191.5	186.6	184.2	181.2	177.0	173.9
17.5°	377.5	353.9	319.5	232.5	196.9	187.8	181.8	177.6	173.3	168.5	164.9
20°	488.6	453.6	412.5	264.5	196.9	183.6	176.4	170.9	164.9	159.5	155.2
22.5°	630.0	594.9	524.9	318.9	199.3	178.2	169.7	162.5	155.2	150.4	145.6
25°	788.2	738.7	673.4	384.7	206.0	170.9	161.9	154.6	148.0	141.9	136.5
27.5°	964.6	910.8	823.8	478.4	220.5	163.7	153.4	146.8	140.7	134.7	127.4
30°	1127.0	1095.0	1006.2	590.7	244.0	158.8	146.8	140.7	134.7	126.8	120.2
32.5°	1322.1	1265.3	1192.3	718.7	275.4	154.0	141.3	132.9	128.0	120.8	113.5
35°	1518.4	1470.1	1374.1	876.4	310.4	149.2	134.7	126.8	122.6	114.2	106.3
37.5°	1720.8	1709.9	1615.1	1050.9	344.9	143.7	126.8	122.0	117.8	108.1	99.1
40°	1920.1	1900.1	1812.6	1250.2	366.0	137.7	120.2	117.2	112.3	101.5	91.2
42.5°	2110.9	2095.8	2010.7	1441.1	363.0	132.3	113.5	109.9	106.3	95.4	82.7
45°	2345.3	2320.5	2213.0	1582.4	332.2	138.3	106.9	100.9	100.3	90.0	74.3
47.5°	2783.8	2702.2	2519.8	1691.2	301.4	154.0	99.7	92.4	96.6	84.6	65.8
50°	3398.0	3302.0	3038.0	1775.7	300.8	174.6	98.4	84.6	93.6	80.3	58.6
52.5°	4015.3	3846.2	3525.5	1821.0	323.1	189.7	109.3	76.7	90.0	76.1	53.2
55°	4606.6	4255.7	3729.6	1671.2	340.6	206.0	129.3	72.5	83.3	71.3	50.1
57.5°	5170.1	4584.8	3818.4	1322.1	399.2	212.6	141.3	74.3	73.7	65.2	47.7
60°	5247.4	4569.1	3639.0	768.9	440.3	201.1	136.5	82.7	64.6	58.0	43.5
62.5°	4955.1	4265.3	3230.1	479.6	408.9	196.9	121.4	94.2	58.6	51.3	38.1
65°	4511.2	3788.8	2693.2	309.2	309.8	218.6	106.3	92.4	55.0	45.3	32.6
67.5°	3817.2	3170.9	2121.8	207.2	175.2	186.6	93.0	63.4	53.8	38.7	25.4
70°	2786.2	2257.1	1381.3	138.3	104.5	149.2	77.9	45.3	50.7	32.0	18.1
72.5°	2036.6	1516.6	771.3	90.6	59.2	87.0	57.4	32.6	39.3	23.6	12.7
75°	1465.9	1043.7	440.3	58.0	39.3	47.7	37.4	22.3	25.4	18.7	11.5
77.5°	705.5	508.6	199.9	32.0	26.6	24.2	19.9	13.9	15.7	16.9	10.3
80°	26.6	19.9	15.1	15.7	16.9	10.9	9.1	7.2	9.1	11.5	5.4
82.5°	0.0	0.0	0.0	1.8	2.4	3.0	3.6	3.0	3.6	4.2	0.6
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°	264.5	264.5	264.5	264.5	264.5	264.5	264.5	264.5	264.5	264.5	264.5
2.5°	245.2	244.0	245.2	246.4	247.6	248.8	247.0	248.2	249.4	246.4	247.6
5°	225.9	225.3	228.9	230.7	233.1	234.3	233.1	233.1	232.5	228.9	228.9
7.5°	209.0	209.6	212.6	216.8	219.9	221.7	220.5	219.9	218.0	212.6	212.6
10°	196.3	196.3	201.1	204.8	209.0	210.8	209.6	207.8	206.0	200.5	199.9
12.5°	186.0	186.0	189.7	195.7	200.5	202.9	202.3	199.9	196.9	191.5	190.9
15°	176.4	175.8	181.2	186.6	193.3	196.3	195.1	193.3	187.8	183.0	181.8
17.5°	166.7	166.1	170.9	178.2	185.4	189.7	189.0	184.8	180.0	173.9	172.7
20°	157.0	155.8	161.9	169.1	176.4	180.6	179.4	175.8	169.7	163.7	162.5
22.5°	147.4	146.8	151.0	157.0	163.7	167.3	166.7	163.7	157.6	152.2	152.2
25°	136.5	136.5	139.5	143.7	148.6	150.4	151.0	149.8	146.2	143.1	143.1
27.5°	127.4	125.6	126.8	128.0	130.5	133.5	133.5	134.7	135.3	134.1	134.7
30°	120.2	117.2	115.4	112.9	111.7	112.9	114.2	118.4	122.6	125.0	126.2
32.5°	111.7	108.1	103.3	96.6	92.4	91.2	94.8	102.7	110.5	116.0	119.0
35°	103.3	98.4	89.4	79.7	74.3	72.5	76.7	85.8	97.2	106.9	111.1
37.5°	94.8	88.2	75.5	64.0	58.0	56.8	61.0	70.7	84.0	97.2	102.7
40°	85.2	77.3	62.2	50.1	45.3	44.1	47.7	57.4	71.3	86.4	94.8
42.5°	75.5	65.8	50.1	39.9	35.0	35.0	39.9	47.1	59.8	76.1	86.4
45°	65.8	55.6	41.1	32.0	29.0	29.6	32.6	39.9	50.1	67.0	76.7
47.5°	56.8	47.7	33.8	26.6	24.2	24.8	28.4	34.4	42.9	58.0	68.3
50°	48.9	40.5	29.6	22.3	20.5	21.7	25.4	30.8	38.1	51.3	59.8
52.5°	44.1	36.2	27.2	19.3	18.1	19.3	23.0	27.8	34.4	45.3	53.8
55°	41.7	35.6	27.2	17.5	15.7	16.9	20.5	25.4	30.8	41.1	48.3
57.5°	41.1	36.8	29.0	15.7	13.3	14.5	18.1	23.0	28.4	37.4	43.5
60°	38.7	35.0	28.4	12.7	10.3	12.1	15.1	19.9	26.0	35.0	40.5
62.5°	33.8	30.8	24.8	10.3	7.9	9.1	12.7	17.5	23.6	32.0	38.1
65°	27.8	24.8	19.3	6.6	4.8	6.0	9.7	15.1	20.5	29.0	34.4
67.5°	20.5	17.5	13.3	4.2	2.4	4.2	7.9	12.7	18.7	26.0	31.4
70°	12.7	10.3	7.2	2.4	1.8	3.6	7.2	12.1	16.9	24.2	29.6
72.5°	7.2	4.8	3.0	1.2	1.8	3.6	7.2	12.1	16.3	23.0	27.8
75°	5.4	3.0	1.2	0.6	1.2	3.0	6.6	10.9	15.7	21.7	26.6
77.5°	3.6	1.8	0.6	0.0	0.6	2.4	6.0	10.3	14.5	20.5	25.4
80°	0.6	0.0	0.0	0.0	0.0	1.8	5.4	9.1	13.3	18.1	22.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.6	4.2	7.9	11.5	15.1	18.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	6.0	9.1	11.5	12.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.0	7.2	8.5
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°	264.5	264.5	264.5	264.5	264.5	264.5	264.5	264.5	264.5	264.5	264.5
2.5°	247.0	250.7	250.7	253.1	256.1	261.5	264.5	268.8	271.8	274.8	276.0
5°	228.3	228.9	229.5	230.7	234.3	240.4	245.8	252.5	260.3	266.4	270.0
7.5°	212.6	212.6	212.6	214.4	218.0	222.3	227.7	236.8	245.8	253.1	259.1
10°	199.3	201.1	201.7	204.8	209.0	214.4	220.5	228.3	238.6	248.2	259.1
12.5°	190.9	192.7	195.7	198.7	202.9	209.0	215.6	225.9	247.0	267.0	289.9
15°	183.0	185.4	189.0	193.3	198.1	204.8	212.0	233.1	282.7	320.1	356.4
17.5°	174.6	178.2	183.0	187.2	193.3	200.5	209.6	250.7	347.9	410.1	471.7
20°	163.7	168.5	173.9	180.6	187.8	196.3	209.6	286.9	442.1	531.5	613.0
22.5°	153.4	158.2	164.9	173.3	181.8	190.3	212.6	341.9	563.5	676.5	779.7
25°	145.0	151.0	157.6	164.9	174.6	184.2	219.9	419.2	709.7	855.2	928.3
27.5°	137.1	144.4	151.0	157.0	165.5	176.4	236.2	522.4	882.4	1030.4	1087.8
30°	129.3	137.7	144.4	150.4	158.8	170.3	260.9	654.1	1074.5	1218.2	1224.3
32.5°	122.6	130.5	138.3	144.4	152.2	165.5	295.3	808.1	1271.4	1410.3	1353.5
35°	115.4	124.4	131.7	138.3	146.8	161.3	335.2	974.2	1470.1	1586.7	1482.2
37.5°	108.1	118.4	127.4	132.3	140.7	157.0	364.2	1147.6	1673.0	1758.8	1595.1
40°	101.5	112.9	123.2	128.0	132.3	151.6	368.4	1325.1	1879.0	1928.5	1701.4
42.5°	94.2	106.9	116.0	122.6	126.2	148.0	343.1	1474.9	2051.7	2097.6	1840.3
45°	86.4	101.5	108.7	113.5	120.8	150.4	310.4	1590.9	2249.2	2328.4	2069.3
47.5°	78.5	95.4	101.5	105.1	114.8	164.9	298.4	1668.2	2574.8	2739.1	2455.2
50°	71.3	90.0	96.6	96.0	113.5	183.6	311.7	1726.8	3064.0	3257.3	2984.3
52.5°	63.4	84.0	91.8	89.4	122.6	198.1	338.2	1773.3	3440.3	3864.9	3695.2
55°	56.8	77.3	84.6	84.0	139.5	209.0	358.8	1528.1	3596.1	4429.6	4496.1
57.5°	51.9	70.1	76.1	86.4	150.4	209.0	414.9	1084.8	3599.1	4845.2	5559.1
60°	47.7	63.4	67.6	94.8	146.2	198.1	410.7	664.4	3317.1	4816.8	6124.4
62.5°	44.1	57.4	62.8	97.2	129.3	196.3	370.8	411.9	2829.1	4450.2	5714.3
65°	41.1	52.5	60.4	89.4	117.2	210.2	250.0	296.0	2294.5	4032.2	5243.8
67.5°	38.1	48.3	64.0	73.1	106.3	187.8	180.6	210.2	1801.1	3573.8	4811.9
70°	35.6	45.9	67.6	59.8	93.0	146.8	128.0	159.5	1378.9	2981.9	4203.7
72.5°	33.8	42.9	56.8	47.1	75.5	113.5	89.4	116.0	901.1	2327.8	3427.0
75°	32.0	39.3	41.7	38.1	56.2	74.3	67.6	77.9	536.9	1701.4	2600.2
77.5°	31.4	36.8	33.8	30.8	38.1	44.1	51.3	52.5	262.1	851.0	1362.6
80°	27.8	33.2	29.0	25.4	26.0	29.0	38.1	35.0	59.8	216.2	363.6
82.5°	21.7	26.0	24.2	21.1	21.1	21.1	25.4	23.6	19.3	97.2	164.3
85°	15.1	18.1	18.1	16.9	16.3	16.3	15.7	15.1	5.4	6.0	9.1
87.5°	10.3	12.7	13.3	12.7	10.9	9.7	8.5	7.2	2.4	0.0	1.2
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°	264.5	264.5	264.5	264.5	264.5	264.5	264.5	264.5	264.5	264.5
2.5°	280.2	282.1	282.1	279.6	277.8	273.0	268.2	263.3	262.1	261.5
5°	280.2	287.5	291.1	290.5	286.3	278.4	268.2	257.3	254.3	253.1
7.5°	276.0	289.9	300.8	302.6	294.7	280.9	262.1	245.8	241.6	239.8
10°	285.7	312.9	334.6	337.6	328.6	301.4	271.2	243.4	236.8	232.5
12.5°	337.6	382.3	408.9	421.6	404.1	369.6	319.5	270.0	254.9	248.2
15°	442.7	506.1	556.9	556.9	540.6	479.6	416.1	335.8	315.3	297.2
17.5°	577.4	657.1	701.8	697.0	672.2	629.4	553.2	437.9	396.2	377.5
20°	730.8	778.5	788.8	785.8	774.9	750.1	697.6	573.8	517.6	488.6
22.5°	863.7	851.0	835.9	823.8	820.8	828.1	820.8	725.4	681.3	630.0
25°	953.7	881.8	836.5	814.8	825.0	866.7	912.0	876.4	841.4	788.2
27.5°	1002.6	878.2	813.0	790.6	808.1	867.3	965.8	1026.2	989.9	964.6
30°	1029.2	875.2	797.9	776.1	802.7	877.0	1003.2	1166.3	1167.5	1127.0
32.5°	1067.2	894.5	800.9	781.0	816.6	906.0	1050.3	1308.8	1343.9	1322.1
35°	1110.1	924.1	814.8	796.7	840.7	944.6	1102.9	1452.6	1525.7	1518.4
37.5°	1150.6	957.3	847.4	829.9	877.6	977.9	1153.6	1593.9	1695.4	1720.8
40°	1192.9	1003.8	947.7	964.6	991.1	1030.4	1198.9	1716.5	1882.0	1920.1
42.5°	1292.5	1165.1	1250.9	1282.9	1286.5	1205.6	1298.0	1873.6	2065.6	2110.9
45°	1514.8	1452.0	1697.8	1743.1	1719.5	1474.3	1536.5	2100.1	2322.3	2345.3
47.5°	1795.6	1824.6	2309.6	2466.1	2324.7	1791.4	1825.8	2576.6	2792.2	2783.8
50°	2123.0	2260.1	3004.2	3373.3	3035.0	2203.3	2159.2	3162.5	3424.0	3398.0
52.5°	2510.2	2766.2	3838.9	4363.2	4043.1	2666.6	2648.5	3938.6	4098.0	4015.3
55°	2997.6	3254.9	4799.3	5531.9	5076.5	3231.9	3294.1	4838.5	4869.3	4606.6
57.5°	3724.8	3892.1	5931.1	6872.1	6155.2	4000.2	4451.4	6036.2	5667.8	5170.1
60°	5045.1	4711.7	7024.9	8243.2	7302.8	5080.7	5977.6	6745.9	5933.5	5247.4
62.5°	5504.7	5407.5	7709.9	8823.0	8074.7	5968.0	6374.5	6343.6	5589.3	4955.1
65°	4808.3	5234.1	7587.3	8516.8	7975.6	5821.8	5720.3	5899.7	5201.5	4511.2
67.5°	4441.7	4827.0	7122.8	7671.8	7426.6	5325.9	5098.8	5049.9	4366.8	3817.2
70°	4072.1	4453.8	6449.3	6517.6	6403.4	4517.8	4219.4	3891.5	3263.9	2786.2
72.5°	3627.5	3837.7	5515.0	5191.2	5062.0	3548.4	3485.6	2930.5	2446.7	2036.6
75°	3163.7	3102.7	4299.8	3562.9	3659.5	2760.8	2943.8	2152.0	1792.6	1465.9
77.5°	2301.2	2255.9	2879.8	2164.1	2396.6	1808.3	1624.7	858.9	817.8	705.5
80°	1284.1	1548.0	1555.3	1212.8	1513.0	1179.0	406.5	28.4	18.1	26.6
82.5°	596.7	665.6	843.2	562.3	863.1	584.1	84.0	0.0	0.0	0.0
85°	193.3	282.7	236.8	82.7	209.0	197.5	13.9	0.0	0.0	0.0
87.5°	11.5	23.6	6.0	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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