

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: P632431

Luminaire Tested: GWS-SA2C-760-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632431
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-SA2C-760-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5653.6 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

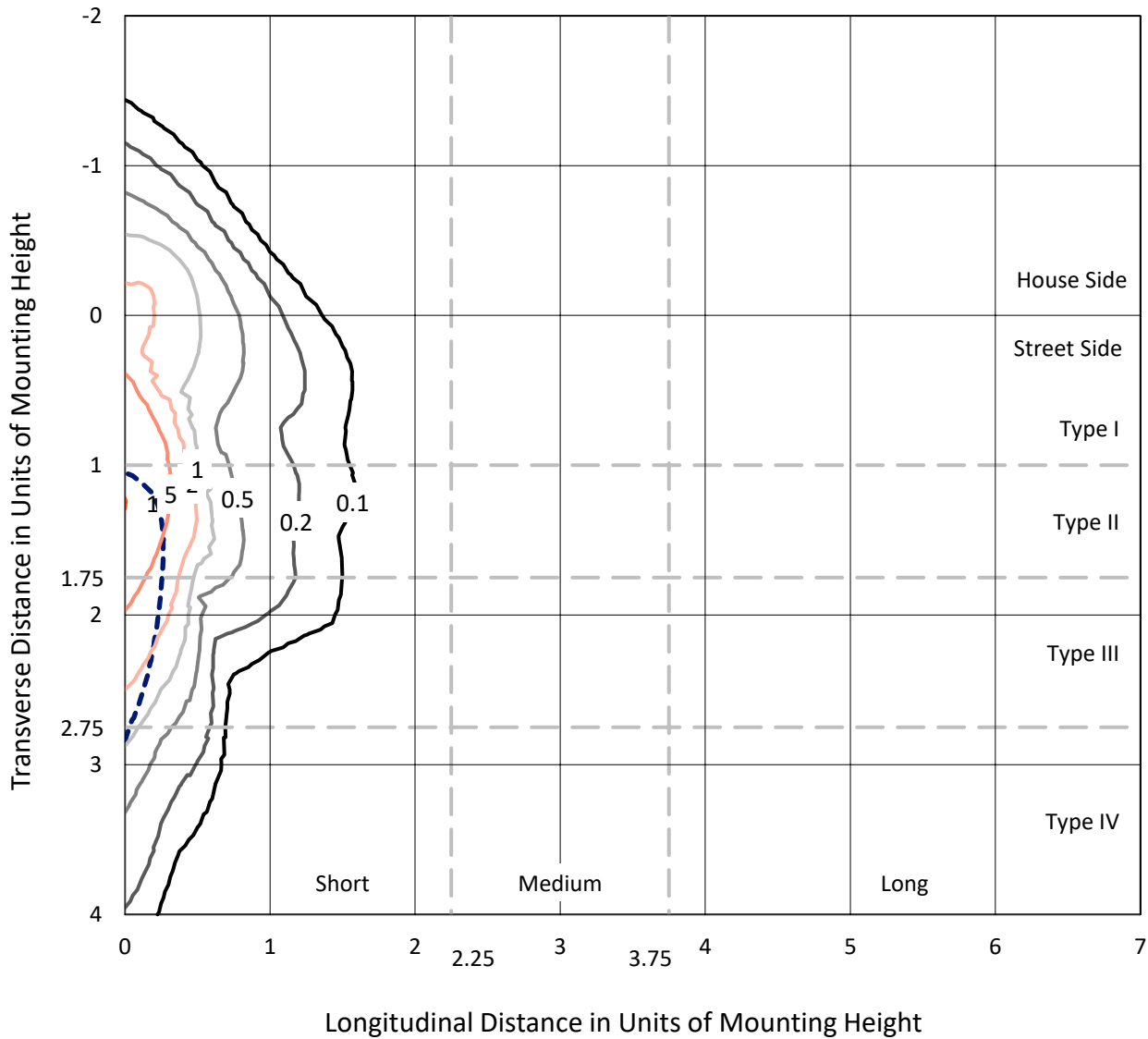
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

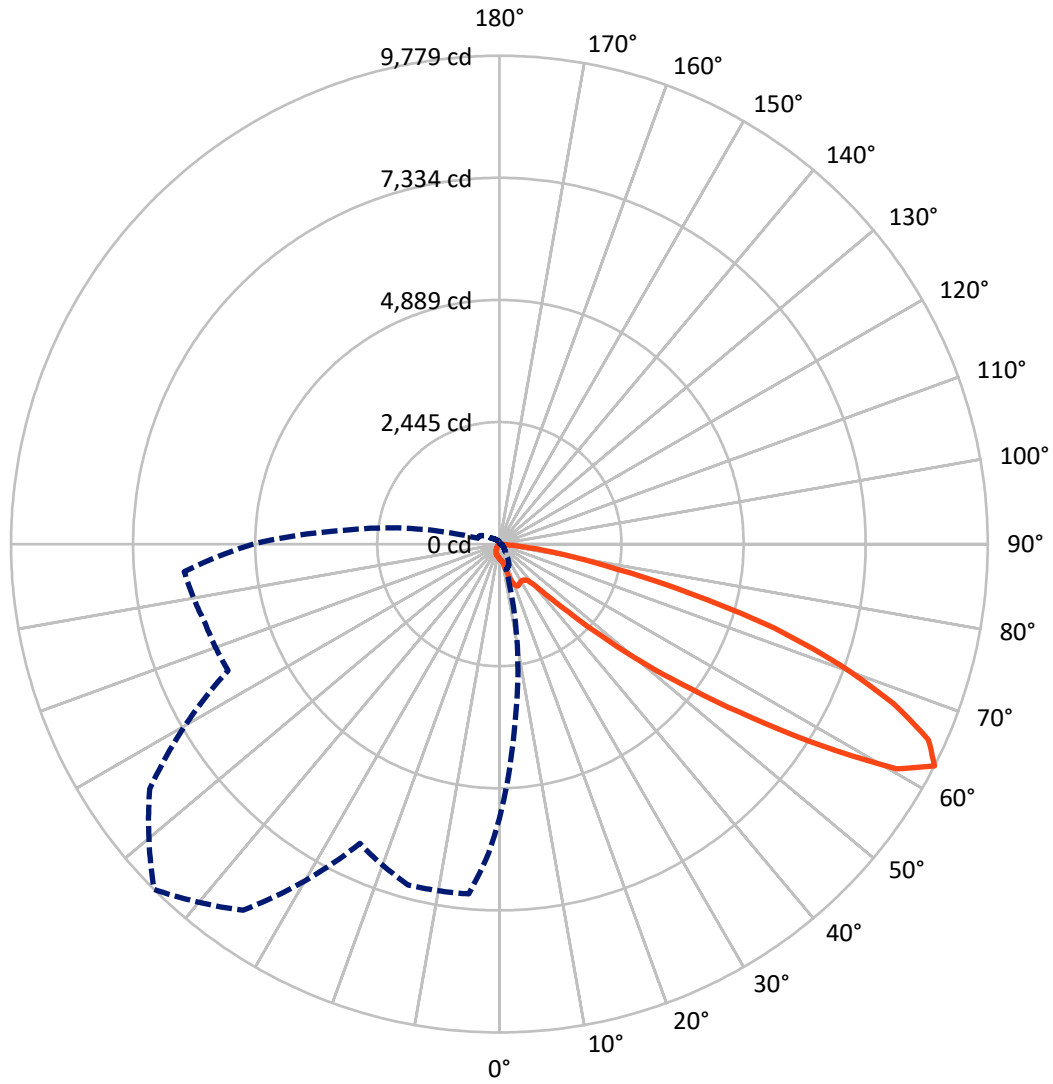
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 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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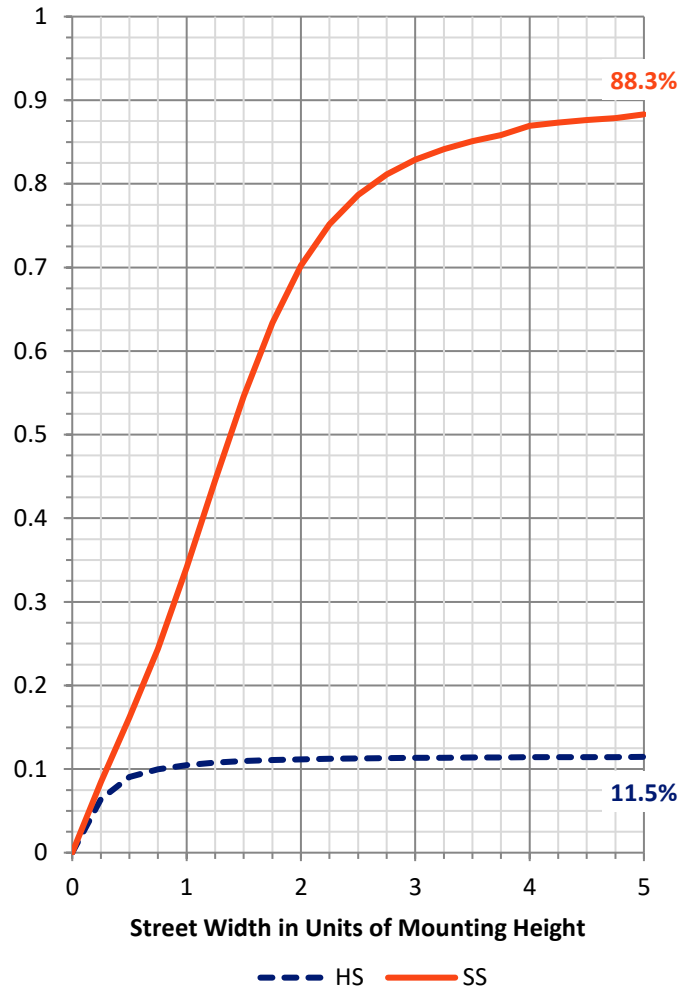
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	656.9	0.0	656.9
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	4996.7	0.0	4996.7
	% Fixture	88.4	0.0	88.4
Total	Lumens	5653.6	0.0	5653.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.3	0.4
10°-20°	86.8	1.5
20°-30°	196.1	3.5
30°-40°	337.7	6.0
40°-50°	637.1	11.3
50°-60°	1422.5	25.2
60°-70°	1902.6	33.7
70°-80°	954.1	16.9
80°-90°	91.4	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°	5653.6	100.0
0°-180°	5653.6	100.0

Coefficient of Utilization



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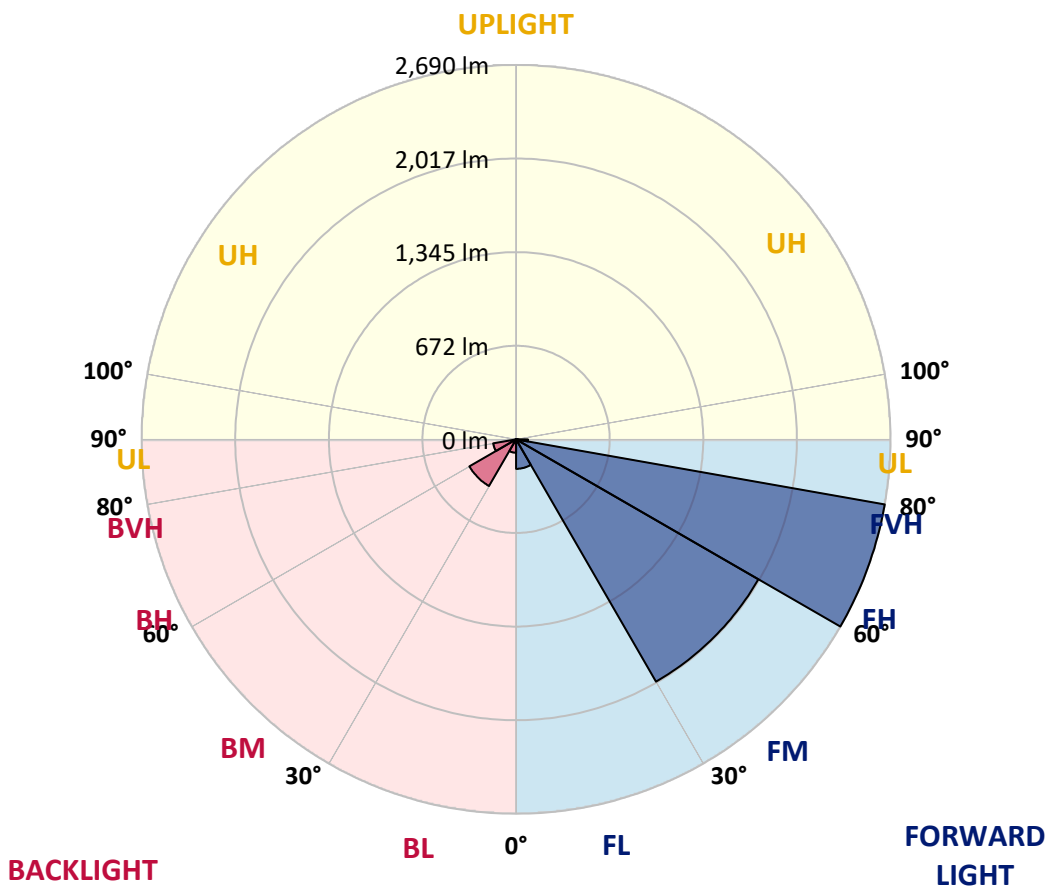
CATALOG NUMBER: GWS-SA2C-760-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	211.7	3.7			
FM (30°-60°)	2010.0	35.6			
FH (60°-80°)	2689.6	47.6			G2/5000
FVH (80°-90°)	85.4	1.5			G1/100
BL (0°-30°)	96.4	1.7	B0/110		
BM (30°-60°)	387.3	6.9	B1/1000		
BH (60°-80°)	167.0	3.0	B1/500		G1/500
BVH (80°-90°)	6.1	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°	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2
2.5°	289.9	289.2	287.8	283.8	280.5	278.5	274.5	274.5	273.8	272.5	269.8
5°	280.5	277.8	275.1	267.8	259.7	255.0	249.7	249.0	249.0	247.7	247.0
7.5°	265.8	263.1	259.7	247.7	240.3	235.6	230.9	230.3	228.3	228.3	228.3
10°	257.7	253.7	248.4	235.0	227.6	223.6	220.2	218.2	216.9	214.9	214.2
12.5°	275.1	267.8	256.4	232.3	222.2	216.9	212.9	211.5	207.5	204.8	202.8
15°	329.4	311.3	288.5	238.3	220.2	212.2	206.8	204.2	200.8	196.1	192.8
17.5°	418.4	392.3	354.1	257.7	218.2	208.2	201.5	196.8	192.1	186.8	182.8
20°	541.6	502.7	457.2	293.2	218.2	203.5	195.5	189.4	182.8	176.7	172.0
22.5°	698.2	659.4	581.7	353.5	220.9	197.5	188.1	180.1	172.0	166.7	161.3
25°	873.6	818.7	746.4	426.4	228.3	189.4	179.4	171.4	164.0	157.3	151.3
27.5°	1069.1	1009.5	913.1	530.2	244.3	181.4	170.0	162.7	156.0	149.3	141.2
30°	1249.1	1213.6	1115.2	654.7	270.4	176.1	162.7	156.0	149.3	140.6	133.2
32.5°	1465.3	1402.4	1321.4	796.6	305.3	170.7	156.6	147.3	141.9	133.9	125.9
35°	1682.9	1629.4	1522.9	971.3	344.1	165.3	149.3	140.6	135.9	126.5	117.8
37.5°	1907.2	1895.1	1790.0	1164.8	382.2	159.3	140.6	135.2	130.5	119.8	109.8
40°	2128.1	2106.0	2008.9	1385.7	405.7	152.6	133.2	129.9	124.5	112.5	101.1
42.5°	2339.6	2322.9	2228.5	1597.2	402.3	146.6	125.9	121.8	117.8	105.8	91.7
45°	2599.3	2571.9	2452.7	1753.9	368.2	153.3	118.5	111.8	111.1	99.7	82.3
47.5°	3085.3	2995.0	2792.8	1874.4	334.0	170.7	110.5	102.4	107.1	93.7	73.0
50°	3766.1	3659.7	3367.2	1968.1	333.4	193.5	109.1	93.7	103.8	89.0	64.9
52.5°	4450.3	4262.8	3907.4	2018.3	358.1	210.2	121.2	85.0	99.7	84.3	58.9
55°	5105.6	4716.7	4133.6	1852.3	377.6	228.3	143.3	80.3	92.4	79.0	55.6
57.5°	5730.2	5081.5	4232.0	1465.3	442.5	235.6	156.6	82.3	81.7	72.3	52.9
60°	5815.9	5064.1	4033.2	852.2	488.0	222.9	151.3	91.7	71.6	64.3	48.2
62.5°	5491.9	4727.4	3580.0	531.5	453.2	218.2	134.6	104.4	64.9	56.9	42.2
65°	4999.9	4199.2	2984.9	342.7	343.4	242.3	117.8	102.4	60.9	50.2	36.1
67.5°	4230.7	3514.4	2351.7	229.6	194.1	206.8	103.1	70.3	59.6	42.8	28.1
70°	3088.0	2501.6	1531.0	153.3	115.8	165.3	86.4	50.2	56.2	35.5	20.1
72.5°	2257.3	1680.9	854.8	100.4	65.6	96.4	63.6	36.1	43.5	26.1	14.1
75°	1624.7	1156.7	488.0	64.3	43.5	52.9	41.5	24.8	28.1	20.8	12.7
77.5°	781.9	563.6	221.6	35.5	29.5	26.8	22.1	15.4	17.4	18.7	11.4
80°	29.5	22.1	16.7	17.4	18.7	12.0	10.0	8.0	10.0	12.7	6.0
82.5°	0.0	0.0	0.0	2.0	2.7	3.3	4.0	3.3	4.0	4.7	0.7
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°	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2
2.5°	271.8	270.4	271.8	273.1	274.5	275.8	273.8	275.1	276.5	273.1	274.5
5°	250.4	249.7	253.7	255.7	258.4	259.7	258.4	258.4	257.7	253.7	253.7
7.5°	231.6	232.3	235.6	240.3	243.7	245.7	244.3	243.7	241.7	235.6	235.6
10°	217.6	217.6	222.9	226.9	231.6	233.6	232.3	230.3	228.3	222.2	221.6
12.5°	206.2	206.2	210.2	216.9	222.2	224.9	224.3	221.6	218.2	212.2	211.5
15°	195.5	194.8	200.8	206.8	214.2	217.6	216.2	214.2	208.2	202.8	201.5
17.5°	184.8	184.1	189.4	197.5	205.5	210.2	209.5	204.8	199.5	192.8	191.5
20°	174.0	172.7	179.4	187.4	195.5	200.2	198.8	194.8	188.1	181.4	180.1
22.5°	163.3	162.7	167.4	174.0	181.4	185.4	184.8	181.4	174.7	168.7	168.7
25°	151.3	151.3	154.6	159.3	164.7	166.7	167.4	166.0	162.0	158.7	158.7
27.5°	141.2	139.2	140.6	141.9	144.6	147.9	147.9	149.3	149.9	148.6	149.3
30°	133.2	129.9	127.9	125.2	123.8	125.2	126.5	131.2	135.9	138.6	139.9
32.5°	123.8	119.8	114.5	107.1	102.4	101.1	105.1	113.8	122.5	128.5	131.9
35°	114.5	109.1	99.1	88.4	82.3	80.3	85.0	95.1	107.8	118.5	123.2
37.5°	105.1	97.7	83.7	71.0	64.3	62.9	67.6	78.3	93.0	107.8	113.8
40°	94.4	85.7	68.9	55.6	50.2	48.9	52.9	63.6	79.0	95.7	105.1
42.5°	83.7	73.0	55.6	44.2	38.8	38.8	44.2	52.2	66.3	84.3	95.7
45°	73.0	61.6	45.5	35.5	32.1	32.8	36.1	44.2	55.6	74.3	85.0
47.5°	62.9	52.9	37.5	29.5	26.8	27.4	31.5	38.2	47.5	64.3	75.6
50°	54.2	44.9	32.8	24.8	22.8	24.1	28.1	34.1	42.2	56.9	66.3
52.5°	48.9	40.2	30.1	21.4	20.1	21.4	25.4	30.8	38.2	50.2	59.6
55°	46.2	39.5	30.1	19.4	17.4	18.7	22.8	28.1	34.1	45.5	53.6
57.5°	45.5	40.8	32.1	17.4	14.7	16.1	20.1	25.4	31.5	41.5	48.2
60°	42.8	38.8	31.5	14.1	11.4	13.4	16.7	22.1	28.8	38.8	44.9
62.5°	37.5	34.1	27.4	11.4	8.7	10.0	14.1	19.4	26.1	35.5	42.2
65°	30.8	27.4	21.4	7.4	5.4	6.7	10.7	16.7	22.8	32.1	38.2
67.5°	22.8	19.4	14.7	4.7	2.7	4.7	8.7	14.1	20.8	28.8	34.8
70°	14.1	11.4	8.0	2.7	2.0	4.0	8.0	13.4	18.7	26.8	32.8
72.5°	8.0	5.4	3.3	1.3	2.0	4.0	8.0	13.4	18.1	25.4	30.8
75°	6.0	3.3	1.3	0.7	1.3	3.3	7.4	12.0	17.4	24.1	29.5
77.5°	4.0	2.0	0.7	0.0	0.7	2.7	6.7	11.4	16.1	22.8	28.1
80°	0.7	0.0	0.0	0.0	0.0	2.0	6.0	10.0	14.7	20.1	24.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.7	4.7	8.7	12.7	16.7	20.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	2.7	6.7	10.0	12.7	14.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.7	8.0	9.4
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2
2.5°	273.8	277.8	277.8	280.5	283.8	289.9	293.2	297.9	301.2	304.6	305.9
5°	253.0	253.7	254.4	255.7	259.7	266.4	272.5	279.8	288.5	295.2	299.2
7.5°	235.6	235.6	235.6	237.6	241.7	246.3	252.4	262.4	272.5	280.5	287.2
10°	220.9	222.9	223.6	226.9	231.6	237.6	244.3	253.0	264.4	275.1	287.2
12.5°	211.5	213.5	216.9	220.2	224.9	231.6	239.0	250.4	273.8	295.9	321.3
15°	202.8	205.5	209.5	214.2	219.6	226.9	235.0	258.4	313.3	354.8	395.0
17.5°	193.5	197.5	202.8	207.5	214.2	222.2	232.3	277.8	385.6	454.5	522.8
20°	181.4	186.8	192.8	200.2	208.2	217.6	232.3	318.0	490.0	589.1	679.5
22.5°	170.0	175.4	182.8	192.1	201.5	210.9	235.6	378.9	624.6	749.7	864.2
25°	160.7	167.4	174.7	182.8	193.5	204.2	243.7	464.6	786.6	947.9	1028.9
27.5°	152.0	160.0	167.4	174.0	183.4	195.5	261.7	579.0	978.0	1142.0	1205.6
30°	143.3	152.6	160.0	166.7	176.1	188.8	289.2	725.0	1190.9	1350.2	1356.9
32.5°	135.9	144.6	153.3	160.0	168.7	183.4	327.3	895.7	1409.1	1563.1	1500.2
35°	127.9	137.9	145.9	153.3	162.7	178.7	371.5	1079.8	1629.4	1758.6	1642.7
37.5°	119.8	131.2	141.2	146.6	156.0	174.0	403.7	1271.9	1854.3	1949.3	1767.9
40°	112.5	125.2	136.6	141.9	146.6	168.0	408.3	1468.7	2082.6	2137.4	1885.7
42.5°	104.4	118.5	128.5	135.9	139.9	164.0	380.2	1634.7	2274.0	2324.9	2039.7
45°	95.7	112.5	120.5	125.9	133.9	166.7	344.1	1763.2	2492.9	2580.6	2293.4
47.5°	87.0	105.8	112.5	116.5	127.2	182.8	330.7	1848.9	2853.7	3035.8	2721.2
50°	79.0	99.7	107.1	106.4	125.9	203.5	345.4	1913.9	3395.9	3610.2	3307.6
52.5°	70.3	93.0	101.8	99.1	135.9	219.6	374.9	1965.4	3813.0	4283.6	4095.5
55°	62.9	85.7	93.7	93.0	154.6	231.6	397.6	1693.6	3985.7	4909.5	4983.1
57.5°	57.6	77.7	84.3	95.7	166.7	231.6	459.9	1202.3	3989.0	5370.0	6161.3
60°	52.9	70.3	75.0	105.1	162.0	219.6	455.2	736.4	3676.4	5338.6	6787.9
62.5°	48.9	63.6	69.6	107.8	143.3	217.6	411.0	456.5	3135.5	4932.3	6333.3
65°	45.5	58.2	66.9	99.1	129.9	233.0	277.1	328.0	2543.1	4469.0	5811.9
67.5°	42.2	53.6	71.0	81.0	117.8	208.2	200.2	233.0	1996.2	3960.9	5333.2
70°	39.5	50.9	75.0	66.3	103.1	162.7	141.9	176.7	1528.3	3304.9	4659.1
72.5°	37.5	47.5	62.9	52.2	83.7	125.9	99.1	128.5	998.8	2579.9	3798.3
75°	35.5	43.5	46.2	42.2	62.3	82.3	75.0	86.4	595.1	1885.7	2881.8
77.5°	34.8	40.8	37.5	34.1	42.2	48.9	56.9	58.2	290.5	943.2	1510.2
80°	30.8	36.8	32.1	28.1	28.8	32.1	42.2	38.8	66.3	239.7	403.0
82.5°	24.1	28.8	26.8	23.4	23.4	23.4	28.1	26.1	21.4	107.8	182.1
85°	16.7	20.1	20.1	18.7	18.1	18.1	17.4	16.7	6.0	6.7	10.0
87.5°	11.4	14.1	14.7	14.1	12.0	10.7	9.4	8.0	2.7	0.0	1.3
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):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2	293.2
2.5°	310.6	312.6	312.6	309.9	307.9	302.6	297.2	291.9	290.5	289.9
5°	310.6	318.6	322.7	322.0	317.3	308.6	297.2	285.2	281.8	280.5
7.5°	305.9	321.3	333.4	335.4	326.7	311.3	290.5	272.5	267.8	265.8
10°	316.6	346.8	370.9	374.2	364.2	334.0	300.6	269.8	262.4	257.7
12.5°	374.2	423.7	453.2	467.3	447.8	409.7	354.1	299.2	282.5	275.1
15°	490.7	561.0	617.2	617.2	599.1	531.5	461.2	372.2	349.4	329.4
17.5°	640.0	728.3	777.9	772.5	745.1	697.5	613.2	485.3	439.1	418.4
20°	810.0	862.9	874.3	870.9	858.9	831.4	773.2	635.9	573.7	541.6
22.5°	957.3	943.2	926.5	913.1	909.7	917.8	909.7	804.0	755.1	698.2
25°	1057.0	977.3	927.1	903.0	914.4	960.6	1010.8	971.3	932.5	873.6
27.5°	1111.2	973.3	901.0	876.3	895.7	961.3	1070.4	1137.3	1097.2	1069.1
30°	1140.7	970.0	884.3	860.2	889.7	972.0	1111.9	1292.6	1294.0	1249.1
32.5°	1182.9	991.4	887.6	865.6	905.0	1004.1	1164.1	1450.6	1489.4	1465.3
35°	1230.4	1024.2	903.0	883.0	931.8	1047.0	1222.4	1609.9	1690.9	1682.9
37.5°	1275.2	1061.0	939.2	919.8	972.7	1083.8	1278.6	1766.6	1879.0	1907.2
40°	1322.1	1112.6	1050.3	1069.1	1098.5	1142.0	1328.8	1902.5	2085.9	2128.1
42.5°	1432.5	1291.3	1386.4	1421.8	1425.9	1336.2	1438.6	2076.5	2289.4	2339.6
45°	1678.9	1609.3	1881.7	1931.9	1905.8	1634.0	1703.0	2327.6	2573.9	2599.3
47.5°	1990.2	2022.3	2559.8	2733.2	2576.6	1985.5	2023.6	2855.7	3094.7	3085.3
50°	2353.0	2505.0	3329.7	3738.7	3363.8	2442.0	2393.2	3505.1	3794.9	3766.1
52.5°	2782.1	3065.9	4254.8	4835.9	4481.1	2955.5	2935.4	4365.3	4542.0	4450.3
55°	3322.3	3607.5	5319.2	6131.2	5626.4	3582.0	3651.0	5362.7	5396.8	5105.6
57.5°	4128.3	4313.7	6573.7	7616.6	6822.0	4433.5	4933.6	6690.1	6281.8	5730.2
60°	5591.6	5222.1	7786.0	9136.2	8093.9	5631.1	6625.2	7476.7	6576.3	5815.9
62.5°	6101.0	5993.3	8545.1	9778.8	8949.4	6614.5	7065.0	7030.9	6194.8	5491.9
65°	5329.2	5801.2	8409.2	9439.4	8839.6	6452.5	6340.0	6538.8	5765.0	4999.9
67.5°	4922.9	5350.0	7894.4	8502.9	8231.1	5902.9	5651.2	5597.0	4839.9	4230.7
70°	4513.2	4936.3	7148.0	7223.7	7097.1	5007.2	4676.5	4313.0	3617.5	3088.0
72.5°	4020.5	4253.5	6112.4	5753.6	5610.4	3932.8	3863.2	3248.0	2711.8	2257.3
75°	3506.4	3438.8	4765.6	3948.9	4056.0	3059.9	3262.7	2385.1	1986.8	1624.7
77.5°	2550.5	2500.3	3191.8	2398.5	2656.2	2004.2	1800.7	951.9	906.4	781.9
80°	1423.2	1715.7	1723.7	1344.2	1676.9	1306.7	450.5	31.5	20.1	29.5
82.5°	661.4	737.7	934.5	623.2	956.6	647.3	93.0	0.0	0.0	0.0
85°	214.2	313.3	262.4	91.7	231.6	218.9	15.4	0.0	0.0	0.0
87.5°	12.7	26.1	6.7	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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