

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: P633421

Luminaire Tested: GWS-SA2E-760-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633421
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-SA2E-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: 8913 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

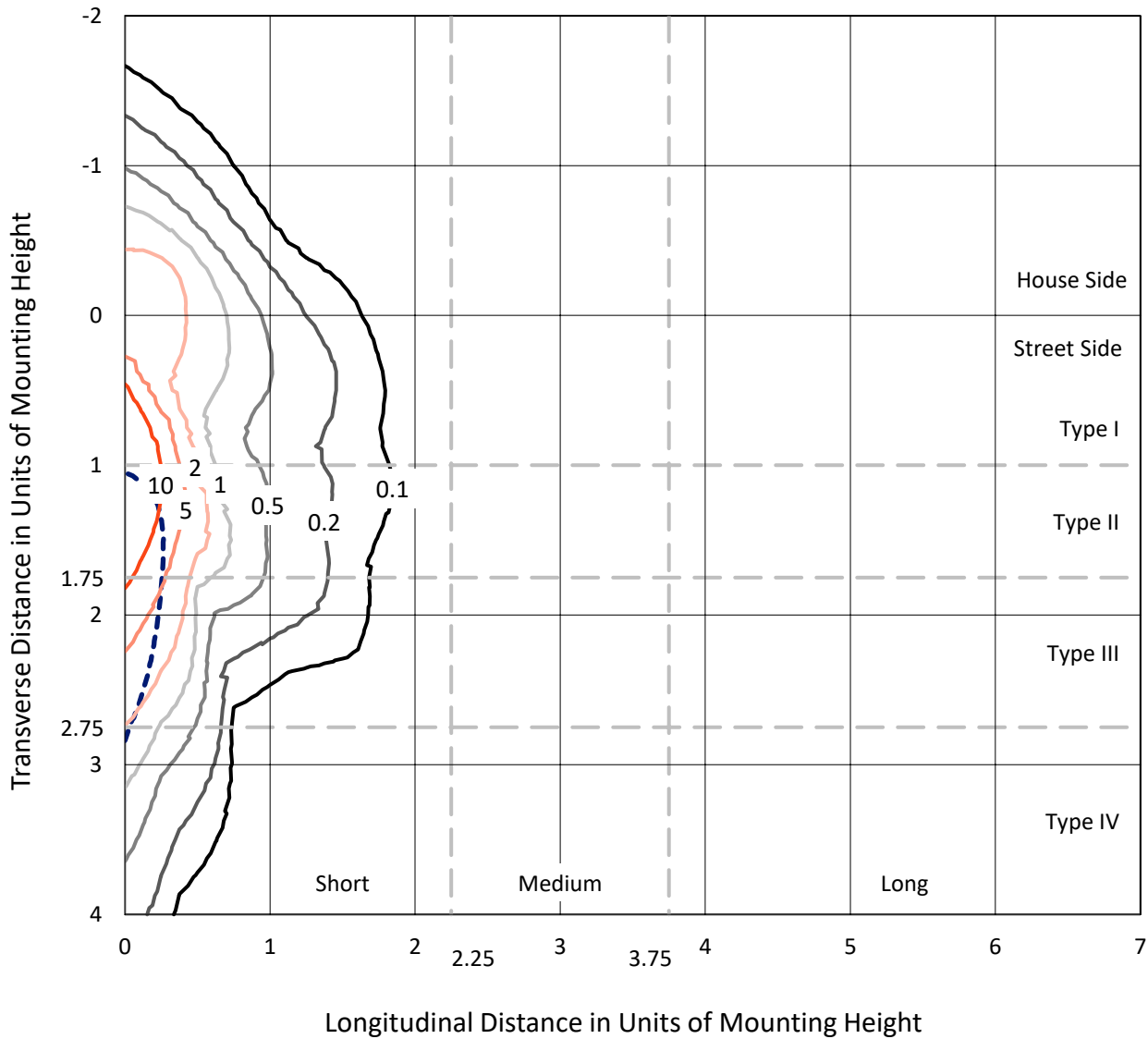
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

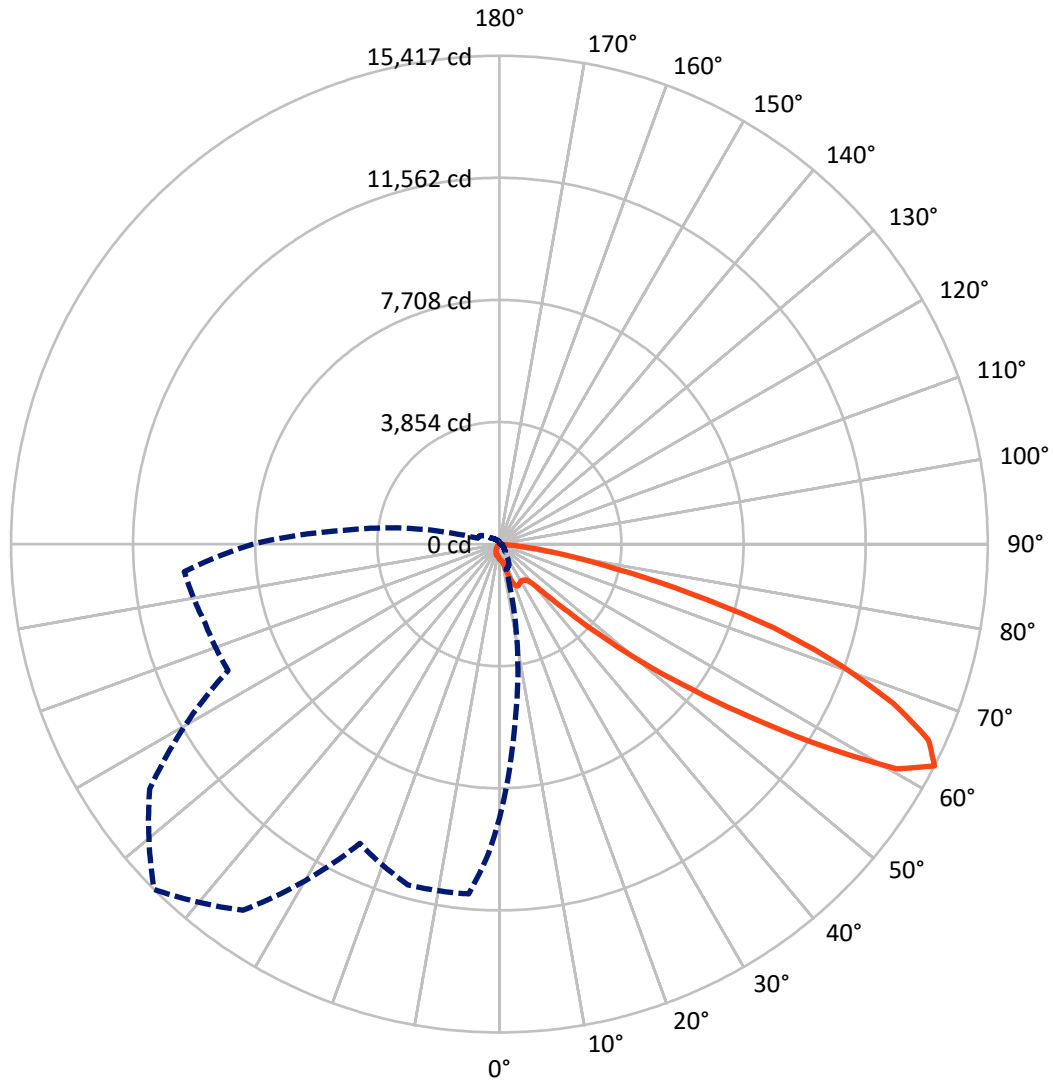
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.9 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	1035.6	0.0	1035.6
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	7877.4	0.0	7877.4
	% Fixture	88.4	0.0	88.4
Total	Lumens	8913.0	0.0	8913.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.9	0.4
10°-20°	136.8	1.5
20°-30°	309.1	3.5
30°-40°	532.5	6.0
40°-50°	1004.4	11.3
50°-60°	2242.6	25.2
60°-70°	2999.4	33.7
70°-80°	1504.1	16.9
80°-90°	144.2	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°	8913.0	100.0
0°-180°	8913.0	100.0

Coefficient of Utilization



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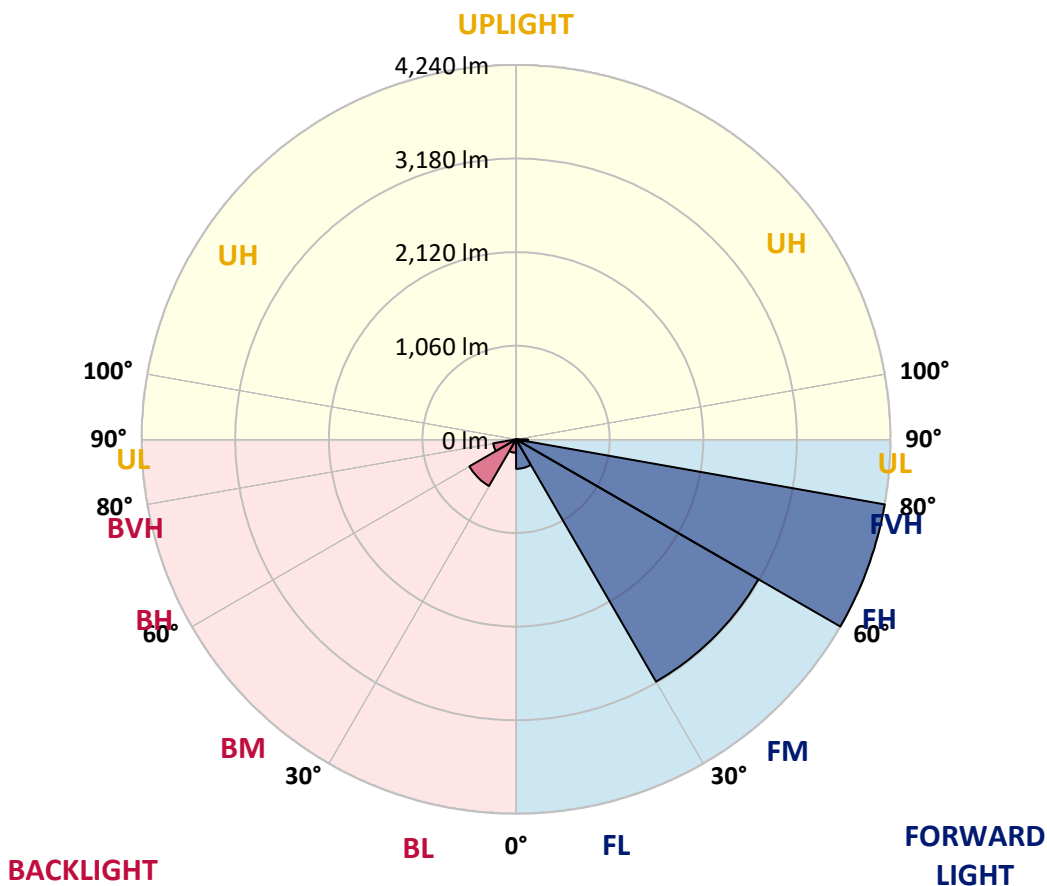
CATALOG NUMBER: GWS-SA2E-760-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	333.8	3.7			
FM (30°-60°)	3168.8	35.6			
FH (60°-80°)	4240.2	47.6			G2/5000
FVH (80°-90°)	134.6	1.5			G2/225
BL (0°-30°)	152.0	1.7	B1/500		
BM (30°-60°)	610.6	6.9	B1/1000		
BH (60°-80°)	263.3	3.0	B1/500		G1/500
BVH (80°-90°)	9.6	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°	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2
2.5°	457.0	455.9	453.8	447.5	442.2	439.0	432.7	432.7	431.6	429.5	425.3
5°	442.2	438.0	433.7	422.1	409.5	402.1	393.6	392.6	392.6	390.5	389.4
7.5°	419.0	414.8	409.5	390.5	378.9	371.5	364.1	363.0	359.9	359.9	359.9
10°	406.3	400.0	391.5	370.4	358.8	352.5	347.2	344.0	341.9	338.8	337.7
12.5°	433.7	422.1	404.2	366.2	350.4	341.9	335.6	333.5	327.2	322.9	319.8
15°	519.2	490.7	454.9	375.7	347.2	334.5	326.1	321.9	316.6	309.2	303.9
17.5°	659.6	618.4	558.3	406.3	344.0	328.2	317.7	310.3	302.9	294.4	288.1
20°	853.8	792.6	720.8	462.2	344.0	320.8	308.2	298.7	288.1	278.6	271.2
22.5°	1100.7	1039.5	917.1	557.2	348.3	311.3	296.6	283.9	271.2	262.8	254.3
25°	1377.2	1290.7	1176.7	672.3	359.9	298.7	282.8	270.2	258.6	248.0	238.5
27.5°	1685.4	1591.5	1439.5	835.8	385.2	286.0	268.1	256.4	245.9	235.3	222.7
30°	1969.3	1913.3	1758.2	1032.1	426.4	277.6	256.4	245.9	235.3	221.6	210.0
32.5°	2310.1	2210.9	2083.3	1255.9	481.2	269.1	247.0	232.2	223.7	211.1	198.4
35°	2653.1	2568.7	2400.9	1531.3	542.4	260.7	235.3	221.6	214.2	199.5	185.7
37.5°	3006.7	2987.7	2822.0	1836.3	602.6	251.2	221.6	213.2	205.8	188.9	173.1
40°	3354.9	3320.1	3167.1	2184.6	639.5	240.6	210.0	204.7	196.3	177.3	159.4
42.5°	3688.4	3662.0	3513.2	2518.1	634.3	231.1	198.4	192.1	185.7	166.7	144.6
45°	4097.9	4054.6	3866.8	2765.0	580.4	241.7	186.8	176.2	175.2	157.2	129.8
47.5°	4864.1	4721.6	4402.9	2955.0	526.6	269.1	174.1	161.5	168.9	147.7	115.0
50°	5937.4	5769.6	5308.4	3102.7	525.6	305.0	172.0	147.7	163.6	140.4	102.4
52.5°	7015.9	6720.4	6160.0	3181.9	564.6	331.4	191.0	134.0	157.2	133.0	92.9
55°	8049.1	7436.0	6516.8	2920.1	595.2	359.9	225.8	126.6	145.6	124.5	87.6
57.5°	9033.8	8011.1	6671.9	2310.1	697.6	371.5	247.0	129.8	128.8	114.0	83.4
60°	9168.8	7983.7	6358.5	1343.5	769.3	351.4	238.5	144.6	112.9	101.3	76.0
62.5°	8658.0	7452.8	5644.0	837.9	714.5	344.0	212.1	164.6	102.4	89.7	66.5
65°	7882.4	6620.2	4705.8	540.3	541.4	382.0	185.7	161.5	96.0	79.2	57.0
67.5°	6669.8	5540.6	3707.4	362.0	306.0	326.1	162.5	110.8	93.9	67.5	44.3
70°	4868.3	3943.8	2413.6	241.7	182.6	260.7	136.1	79.2	88.6	55.9	31.7
72.5°	3558.6	2650.0	1347.7	158.3	103.4	152.0	100.3	57.0	68.6	41.2	22.2
75°	2561.3	1823.6	769.3	101.3	68.6	83.4	65.4	39.0	44.3	32.7	20.1
77.5°	1232.6	888.6	349.3	55.9	46.4	42.2	34.8	24.3	27.4	29.5	17.9
80°	46.4	34.8	26.4	27.4	29.5	19.0	15.8	12.7	15.8	20.1	9.5
82.5°	0.0	0.0	0.0	3.2	4.2	5.3	6.3	5.3	6.3	7.4	1.1
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°	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2
2.5°	428.5	426.4	428.5	430.6	432.7	434.8	431.6	433.7	435.9	430.6	432.7
5°	394.7	393.6	400.0	403.1	407.4	409.5	407.4	407.4	406.3	400.0	400.0
7.5°	365.1	366.2	371.5	378.9	384.1	387.3	385.2	384.1	381.0	371.5	371.5
10°	343.0	343.0	351.4	357.8	365.1	368.3	366.2	363.0	359.9	350.4	349.3
12.5°	325.0	325.0	331.4	341.9	350.4	354.6	353.5	349.3	344.0	334.5	333.5
15°	308.2	307.1	316.6	326.1	337.7	343.0	340.9	337.7	328.2	319.8	317.7
17.5°	291.3	290.2	298.7	311.3	324.0	331.4	330.3	322.9	314.5	303.9	301.8
20°	274.4	272.3	282.8	295.5	308.2	315.5	313.4	307.1	296.6	286.0	283.9
22.5°	257.5	256.4	263.8	274.4	286.0	292.3	291.3	286.0	275.4	265.9	265.9
25°	238.5	238.5	243.8	251.2	259.6	262.8	263.8	261.7	255.4	250.1	250.1
27.5°	222.7	219.5	221.6	223.7	228.0	233.2	233.2	235.3	236.4	234.3	235.3
30°	210.0	204.7	201.6	197.3	195.2	197.3	199.5	206.8	214.2	218.5	220.6
32.5°	195.2	188.9	180.5	168.9	161.5	159.4	165.7	179.4	193.1	202.6	207.9
35°	180.5	172.0	156.2	139.3	129.8	126.6	134.0	149.9	169.9	186.8	194.2
37.5°	165.7	154.1	131.9	111.9	101.3	99.2	106.6	123.5	146.7	169.9	179.4
40°	148.8	135.1	108.7	87.6	79.2	77.0	83.4	100.3	124.5	150.9	165.7
42.5°	131.9	115.0	87.6	69.7	61.2	61.2	69.7	82.3	104.5	133.0	150.9
45°	115.0	97.1	71.8	55.9	50.7	51.7	57.0	69.7	87.6	117.1	134.0
47.5°	99.2	83.4	59.1	46.4	42.2	43.3	49.6	60.2	74.9	101.3	119.3
50°	85.5	70.7	51.7	39.0	35.9	38.0	44.3	53.8	66.5	89.7	104.5
52.5°	77.0	63.3	47.5	33.8	31.7	33.8	40.1	48.5	60.2	79.2	93.9
55°	72.8	62.3	47.5	30.6	27.4	29.5	35.9	44.3	53.8	71.8	84.4
57.5°	71.8	64.4	50.7	27.4	23.2	25.3	31.7	40.1	49.6	65.4	76.0
60°	67.5	61.2	49.6	22.2	17.9	21.1	26.4	34.8	45.4	61.2	70.7
62.5°	59.1	53.8	43.3	17.9	13.7	15.8	22.2	30.6	41.2	55.9	66.5
65°	48.5	43.3	33.8	11.6	8.4	10.6	16.9	26.4	35.9	50.7	60.2
67.5°	35.9	30.6	23.2	7.4	4.2	7.4	13.7	22.2	32.7	45.4	54.9
70°	22.2	17.9	12.7	4.2	3.2	6.3	12.7	21.1	29.5	42.2	51.7
72.5°	12.7	8.4	5.3	2.1	3.2	6.3	12.7	21.1	28.5	40.1	48.5
75°	9.5	5.3	2.1	1.1	2.1	5.3	11.6	19.0	27.4	38.0	46.4
77.5°	6.3	3.2	1.1	0.0	1.1	4.2	10.6	17.9	25.3	35.9	44.3
80°	1.1	0.0	0.0	0.0	0.0	3.2	9.5	15.8	23.2	31.7	39.0
82.5°	0.0	0.0	0.0	0.0	0.0	1.1	7.4	13.7	20.1	26.4	31.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	4.2	10.6	15.8	20.1	22.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	10.6	12.7	14.8
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°	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2
2.5°	431.6	438.0	438.0	442.2	447.5	457.0	462.2	469.6	474.9	480.2	482.3
5°	398.9	400.0	401.0	403.1	409.5	420.0	429.5	441.1	454.9	465.4	471.7
7.5°	371.5	371.5	371.5	374.6	381.0	388.4	397.9	413.7	429.5	442.2	452.7
10°	348.3	351.4	352.5	357.8	365.1	374.6	385.2	398.9	416.9	433.7	452.7
12.5°	333.5	336.7	341.9	347.2	354.6	365.1	376.8	394.7	431.6	466.5	506.6
15°	319.8	324.0	330.3	337.7	346.2	357.8	370.4	407.4	493.9	559.3	622.7
17.5°	305.0	311.3	319.8	327.2	337.7	350.4	366.2	438.0	607.9	716.6	824.2
20°	286.0	294.4	303.9	315.5	328.2	343.0	366.2	501.3	772.5	928.7	1071.2
22.5°	268.1	276.5	288.1	302.9	317.7	332.4	371.5	597.3	984.6	1182.0	1362.5
25°	253.3	263.8	275.4	288.1	305.0	321.9	384.1	732.4	1240.0	1494.4	1622.1
27.5°	239.6	252.2	263.8	274.4	289.2	308.2	412.6	912.9	1541.9	1800.4	1900.7
30°	225.8	240.6	252.2	262.8	277.6	297.6	455.9	1142.9	1877.5	2128.6	2139.2
32.5°	214.2	228.0	241.7	252.2	265.9	289.2	516.1	1412.1	2221.5	2464.2	2365.0
35°	201.6	217.4	230.1	241.7	256.4	281.8	585.7	1702.3	2568.7	2772.4	2589.8
37.5°	188.9	206.8	222.7	231.1	245.9	274.4	636.4	2005.2	2923.3	3073.2	2787.2
40°	177.3	197.3	215.3	223.7	231.1	264.9	643.8	2315.4	3283.2	3369.7	2972.9
42.5°	164.6	186.8	202.6	214.2	220.6	258.6	599.4	2577.2	3585.0	3665.2	3215.6
45°	150.9	177.3	190.0	198.4	211.1	262.8	542.4	2779.8	3930.1	4068.4	3615.6
47.5°	137.2	166.7	177.3	183.6	200.5	288.1	521.3	2914.9	4498.9	4786.0	4290.0
50°	124.5	157.2	168.9	167.8	198.4	320.8	544.6	3017.2	5353.8	5691.5	5214.5
52.5°	110.8	146.7	160.4	156.2	214.2	346.2	591.0	3098.5	6011.2	6753.2	6456.6
55°	99.2	135.1	147.7	146.7	243.8	365.1	626.9	2670.0	6283.5	7739.9	7856.0
57.5°	90.8	122.4	133.0	150.9	262.8	365.1	725.0	1895.4	6288.8	8466.0	9713.4
60°	83.4	110.8	118.2	165.7	255.4	346.2	717.6	1160.9	5796.0	8416.4	10701.2
62.5°	77.0	100.3	109.8	169.9	225.8	343.0	648.0	719.7	4943.2	7775.8	9984.6
65°	71.8	91.8	105.5	156.2	204.7	367.3	436.9	517.1	4009.3	7045.5	9162.5
67.5°	66.5	84.4	111.9	127.7	185.7	328.2	315.5	367.3	3147.0	6244.5	8407.9
70°	62.3	80.2	118.2	104.5	162.5	256.4	223.7	278.6	2409.4	5210.2	7345.2
72.5°	59.1	74.9	99.2	82.3	131.9	198.4	156.2	202.6	1574.6	4067.3	5988.0
75°	55.9	68.6	72.8	66.5	98.1	129.8	118.2	136.1	938.2	2972.9	4543.3
77.5°	54.9	64.4	59.1	53.8	66.5	77.0	89.7	91.8	458.0	1487.0	2380.9
80°	48.5	58.0	50.7	44.3	45.4	50.7	66.5	61.2	104.5	377.8	635.3
82.5°	38.0	45.4	42.2	36.9	36.9	36.9	44.3	41.2	33.8	169.9	287.1
85°	26.4	31.7	31.7	29.5	28.5	28.5	27.4	26.4	9.5	10.6	15.8
87.5°	17.9	22.2	23.2	22.2	19.0	16.9	14.8	12.7	4.2	0.0	2.1
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°	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2
2.5°	489.7	492.8	492.8	488.6	485.5	477.0	468.6	460.1	458.0	457.0
5°	489.7	502.3	508.7	507.6	500.2	486.5	468.6	449.6	444.3	442.2
7.5°	482.3	506.6	525.6	528.7	515.0	490.7	458.0	429.5	422.1	419.0
10°	499.2	546.7	584.7	589.9	574.1	526.6	473.8	425.3	413.7	406.3
12.5°	589.9	668.0	714.5	736.6	706.0	645.9	558.3	471.7	445.4	433.7
15°	773.6	884.4	973.0	973.0	944.5	837.9	727.1	586.8	550.9	519.2
17.5°	1008.9	1148.2	1226.3	1217.9	1174.6	1099.7	966.7	765.1	692.3	659.6
20°	1277.0	1360.3	1378.3	1373.0	1354.0	1310.7	1218.9	1002.6	904.4	853.8
22.5°	1509.1	1487.0	1460.6	1439.5	1434.2	1446.9	1434.2	1267.5	1190.4	1100.7
25°	1666.4	1540.8	1461.7	1423.7	1441.6	1514.4	1593.6	1531.3	1470.1	1377.2
27.5°	1751.9	1534.5	1420.5	1381.4	1412.1	1515.5	1687.5	1793.0	1729.7	1685.4
30°	1798.3	1529.2	1394.1	1356.1	1402.6	1532.4	1752.9	2037.9	2040.0	1969.3
32.5°	1864.8	1563.0	1399.4	1364.6	1426.8	1583.0	1835.2	2286.9	2348.1	2310.1
35°	1939.7	1614.7	1423.7	1392.0	1469.0	1650.6	1927.1	2538.1	2665.8	2653.1
37.5°	2010.4	1672.7	1480.6	1450.0	1533.4	1708.6	2015.7	2785.1	2962.4	3006.7
40°	2084.3	1754.0	1655.8	1685.4	1731.8	1800.4	2094.9	2999.3	3288.5	3354.9
42.5°	2258.4	2035.8	2185.6	2241.6	2247.9	2106.5	2267.9	3273.7	3609.3	3688.4
45°	2646.8	2537.0	2966.6	3045.7	3004.6	2576.1	2684.8	3669.4	4057.8	4097.9
47.5°	3137.5	3188.2	4035.6	4309.0	4062.0	3130.2	3190.3	4502.1	4878.9	4864.1
50°	3709.5	3949.1	5249.3	5894.1	5303.1	3849.9	3772.9	5525.8	5982.7	5937.4
52.5°	4386.0	4833.5	6707.8	7623.8	7064.5	4659.3	4627.7	6881.9	7160.5	7015.9
55°	5237.7	5687.3	8385.8	9665.9	8870.2	5647.1	5755.9	8454.4	8508.2	8049.1
57.5°	6508.3	6800.6	10363.5	12007.7	10755.0	6989.5	7777.9	10547.1	9903.4	9033.8
60°	8815.3	8232.7	12274.7	14403.3	12760.2	8877.6	10444.7	11787.1	10367.7	9168.8
62.5°	9618.4	9448.5	13471.5	15416.5	14108.9	10427.9	11138.1	11084.3	9766.2	8658.0
65°	8401.6	9145.6	13257.2	14881.4	13935.8	10172.5	9995.2	10308.6	9088.6	7882.4
67.5°	7761.0	8434.3	12445.7	13405.0	12976.5	9306.0	8909.2	8823.7	7630.1	6669.8
70°	7115.1	7782.1	11269.0	11388.2	11188.8	7894.0	7372.6	6799.6	5703.1	4868.3
72.5°	6338.4	6705.7	9636.4	9070.7	8844.8	6200.2	6090.4	5120.5	4275.2	3558.6
75°	5527.9	5421.3	7513.0	6225.5	6394.3	4824.0	5143.8	3760.2	3132.3	2561.3
77.5°	4020.9	3941.7	5031.9	3781.3	4187.6	3159.7	2838.9	1500.7	1428.9	1232.6
80°	2243.7	2704.8	2717.5	2119.1	2643.6	2060.0	710.2	49.6	31.7	46.4
82.5°	1042.7	1163.0	1473.3	982.5	1508.1	1020.5	146.7	0.0	0.0	0.0
85°	337.7	493.9	413.7	144.6	365.1	345.1	24.3	0.0	0.0	0.0
87.5°	20.1	41.2	10.6	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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