

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: P636776

Luminaire Tested: GWS-SA4B-740-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636776
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-SA4B-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8763.8 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

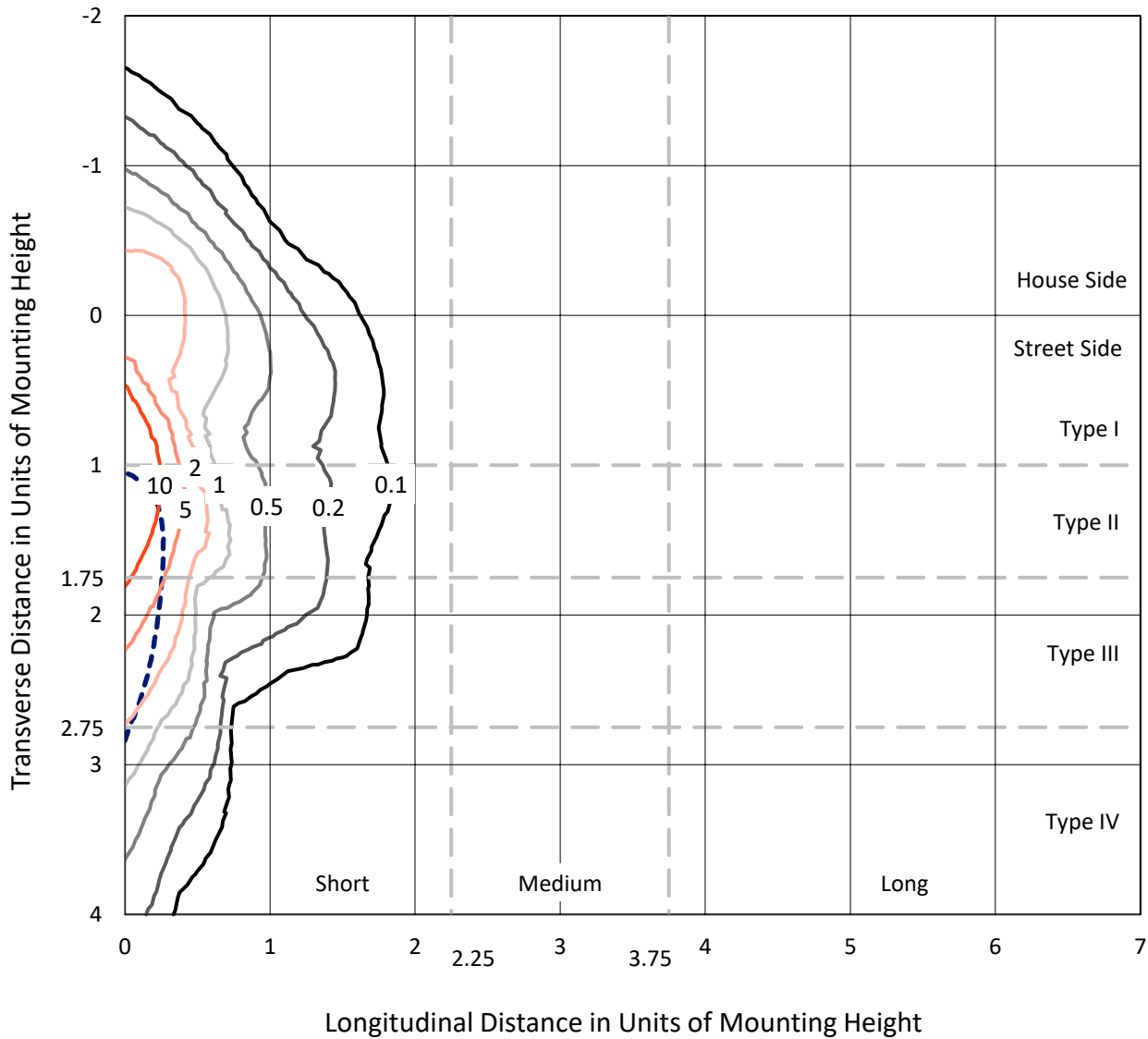
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

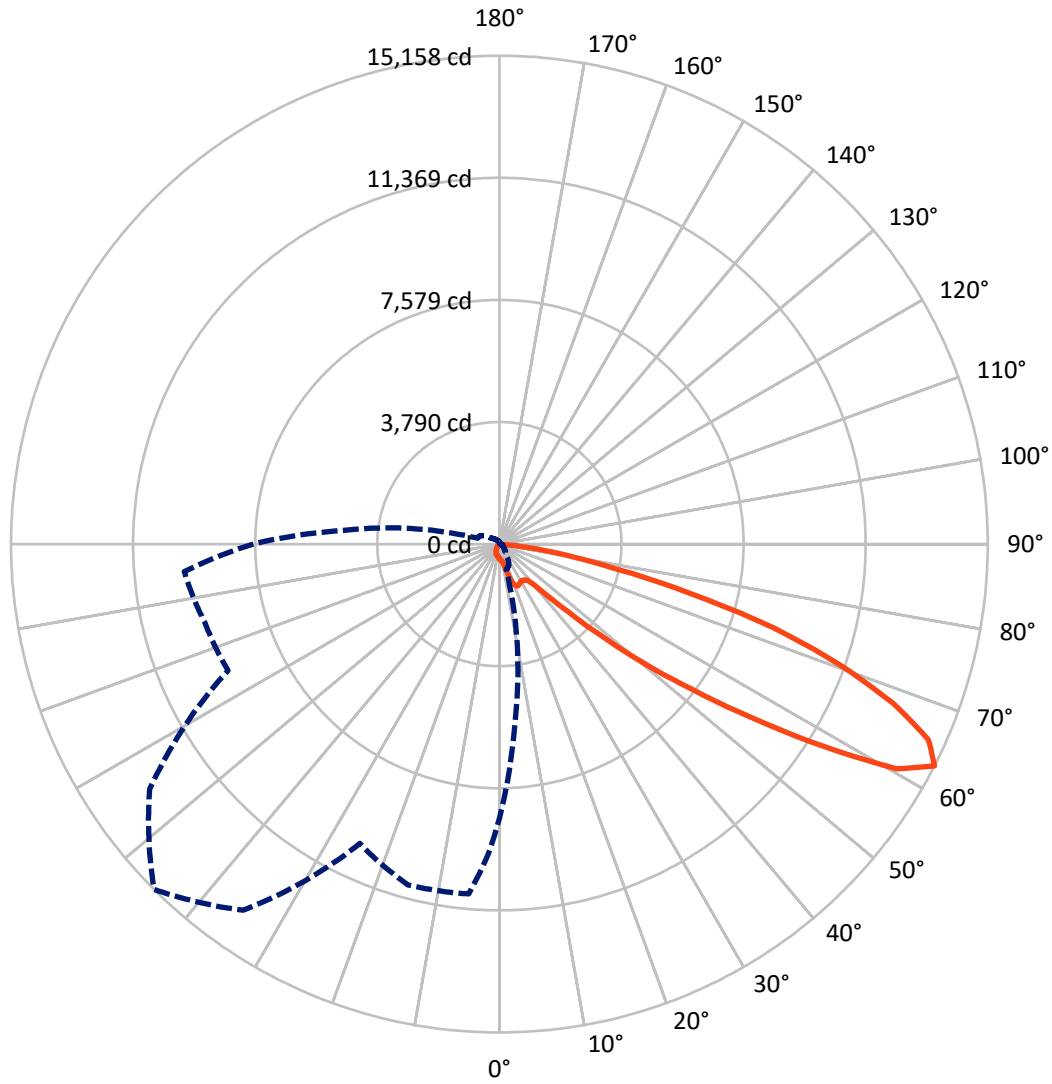
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.6 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	1018.2	0.0	1018.2
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	7745.6	0.0	7745.6
	% Fixture	88.4	0.0	88.4
Total	Lumens	8763.8	0.0	8763.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	0.4
10°-20°	134.5	1.5
20°-30°	303.9	3.5
30°-40°	523.5	6.0
40°-50°	987.6	11.3
50°-60°	2205.0	25.2
60°-70°	2949.2	33.7
70°-80°	1478.9	16.9
80°-90°	141.8	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°	8763.8	100.0
0°-180°	8763.8	100.0

Coefficient of Utilization



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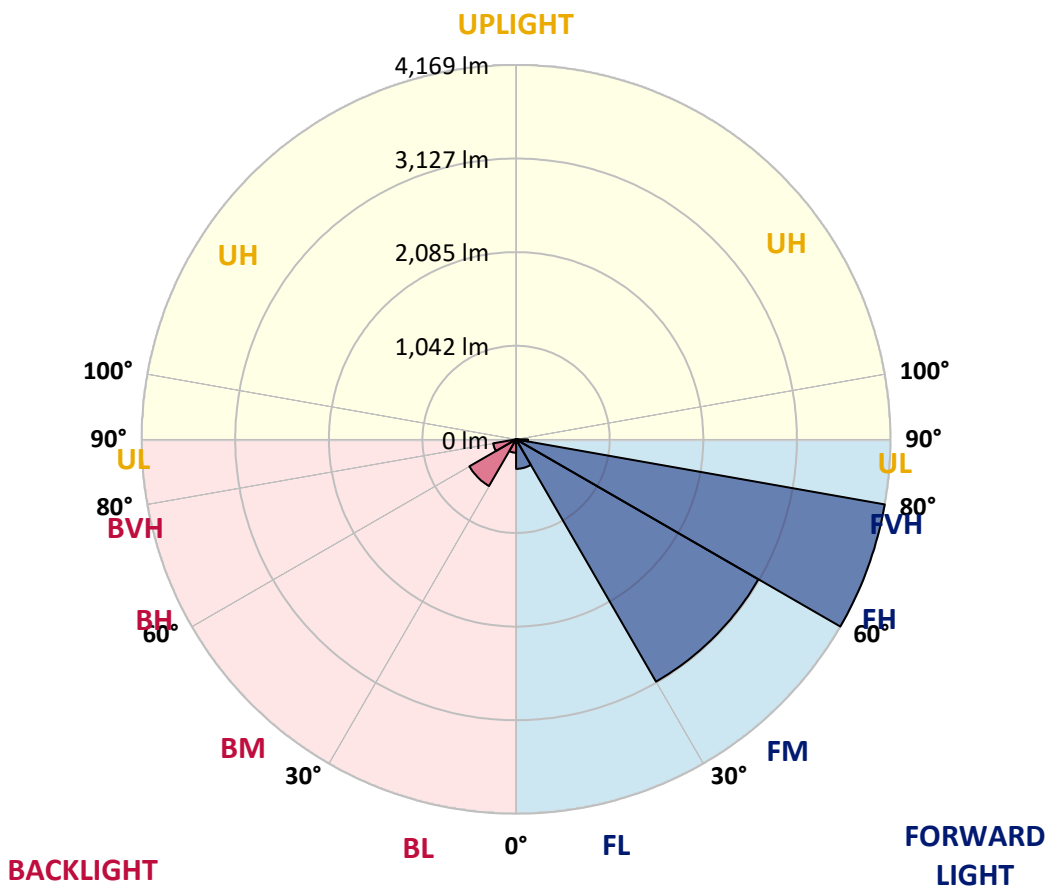
CATALOG NUMBER: GWS-SA4B-740-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	328.2	3.7			
FM (30°-60°)	3115.8	35.6			
FH (60°-80°)	4169.2	47.6			G2/5000
FVH (80°-90°)	132.3	1.5			G2/225
BL (0°-30°)	149.5	1.7	B1/500		
BM (30°-60°)	600.4	6.9	B1/1000		
BH (60°-80°)	258.9	3.0	B1/500		G1/500
BVH (80°-90°)	9.4	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°	454.5	454.5	454.5	454.5	454.5	454.5	454.5	454.5	454.5	454.5	454.5
2.5°	449.3	448.3	446.2	440.0	434.8	431.7	425.4	425.4	424.4	422.3	418.2
5°	434.8	430.6	426.5	415.1	402.6	395.4	387.1	386.0	386.0	383.9	382.9
7.5°	412.0	407.8	402.6	383.9	372.5	365.3	358.0	357.0	353.8	353.8	353.8
10°	399.5	393.3	385.0	364.2	352.8	346.6	341.4	338.3	336.2	333.1	332.1
12.5°	426.5	415.1	397.4	360.1	344.5	336.2	330.0	327.9	321.7	317.5	314.4
15°	510.5	482.5	447.2	369.4	341.4	328.9	320.6	316.5	311.3	304.0	298.9
17.5°	648.5	608.1	548.9	399.5	338.3	322.7	312.3	305.1	297.8	289.5	283.3
20°	839.5	779.3	708.7	454.5	338.3	315.5	303.0	293.7	283.3	273.9	266.7
22.5°	1082.3	1022.1	901.7	547.9	342.4	306.1	291.6	279.1	266.7	258.4	250.1
25°	1354.2	1269.1	1157.0	661.0	353.8	293.7	278.1	265.6	254.2	243.9	234.5
27.5°	1657.2	1564.8	1415.4	821.8	378.8	281.2	263.6	252.2	241.8	231.4	219.0
30°	1936.3	1881.3	1728.8	1014.8	419.2	272.9	252.2	241.8	231.4	217.9	206.5
32.5°	2271.5	2173.9	2048.4	1234.8	473.2	264.6	242.8	228.3	220.0	207.5	195.1
35°	2608.7	2525.7	2360.7	1505.7	533.4	256.3	231.4	217.9	210.6	196.1	182.6
37.5°	2956.3	2937.7	2774.8	1805.6	592.5	247.0	217.9	209.6	202.3	185.7	170.2
40°	3298.8	3264.5	3114.1	2148.0	628.8	236.6	206.5	201.3	193.0	174.3	156.7
42.5°	3626.7	3600.7	3454.4	2475.9	623.6	227.3	195.1	188.9	182.6	164.0	142.2
45°	4029.3	3986.8	3802.1	2718.7	570.7	237.6	183.7	173.3	172.3	154.6	127.6
47.5°	4782.7	4642.6	4329.2	2905.5	517.8	264.6	171.2	158.8	166.0	145.3	113.1
50°	5838.0	5673.0	5219.5	3050.8	516.8	299.9	169.1	145.3	160.8	138.0	100.7
52.5°	6898.5	6607.9	6056.9	3128.6	555.2	325.8	187.8	131.8	154.6	130.7	91.3
55°	7914.4	7311.5	6407.7	2871.3	585.3	353.8	222.1	124.5	143.2	122.4	86.1
57.5°	8882.5	7877.0	6560.2	2271.5	685.9	365.3	242.8	127.6	126.6	112.1	82.0
60°	9015.4	7850.0	6252.0	1321.0	756.5	345.5	234.5	142.2	111.0	99.6	74.7
62.5°	8513.1	7328.1	5549.5	823.9	702.5	338.3	208.6	161.9	100.7	88.2	65.4
65°	7750.4	6509.4	4627.0	531.3	532.3	375.6	182.6	158.8	94.4	77.8	56.0
67.5°	6558.1	5447.8	3645.4	355.9	300.9	320.6	159.8	109.0	92.4	66.4	43.6
70°	4786.8	3877.8	2373.2	237.6	179.5	256.3	133.9	77.8	87.2	55.0	31.1
72.5°	3499.1	2605.6	1325.1	155.7	101.7	149.4	98.6	56.0	67.4	40.5	21.8
75°	2518.4	1793.1	756.5	99.6	67.4	82.0	64.3	38.4	43.6	32.2	19.7
77.5°	1212.0	873.7	343.5	55.0	45.7	41.5	34.2	23.9	27.0	29.1	17.6
80°	45.7	34.2	25.9	27.0	29.1	18.7	15.6	12.5	15.6	19.7	9.3
82.5°	0.0	0.0	0.0	3.1	4.2	5.2	6.2	5.2	6.2	7.3	1.0
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°	454.5	454.5	454.5	454.5	454.5	454.5	454.5	454.5	454.5	454.5	454.5
2.5°	421.3	419.2	421.3	423.4	425.4	427.5	424.4	426.5	428.6	423.4	425.4
5°	388.1	387.1	393.3	396.4	400.5	402.6	400.5	400.5	399.5	393.3	393.3
7.5°	359.0	360.1	365.3	372.5	377.7	380.8	378.8	377.7	374.6	365.3	365.3
10°	337.2	337.2	345.5	351.8	359.0	362.1	360.1	357.0	353.8	344.5	343.5
12.5°	319.6	319.6	325.8	336.2	344.5	348.7	347.6	343.5	338.3	328.9	327.9
15°	303.0	302.0	311.3	320.6	332.1	337.2	335.2	332.1	322.7	314.4	312.3
17.5°	286.4	285.4	293.7	306.1	318.6	325.8	324.8	317.5	309.2	298.9	296.8
20°	269.8	267.7	278.1	290.6	303.0	310.3	308.2	302.0	291.6	281.2	279.1
22.5°	253.2	252.2	259.4	269.8	281.2	287.4	286.4	281.2	270.8	261.5	261.5
25°	234.5	234.5	239.7	247.0	255.3	258.4	259.4	257.3	251.1	245.9	245.9
27.5°	219.0	215.8	217.9	220.0	224.1	229.3	229.3	231.4	232.4	230.4	231.4
30°	206.5	201.3	198.2	194.0	192.0	194.0	196.1	203.4	210.6	214.8	216.9
32.5°	192.0	185.7	177.4	166.0	158.8	156.7	162.9	176.4	189.9	199.2	204.4
35°	177.4	169.1	153.6	137.0	127.6	124.5	131.8	147.4	167.1	183.7	190.9
37.5°	162.9	151.5	129.7	110.0	99.6	97.5	104.8	121.4	144.2	167.1	176.4
40°	146.3	132.8	106.9	86.1	77.8	75.8	82.0	98.6	122.4	148.4	162.9
42.5°	129.7	113.1	86.1	68.5	60.2	60.2	68.5	80.9	102.7	130.7	148.4
45°	113.1	95.5	70.6	55.0	49.8	50.8	56.0	68.5	86.1	115.2	131.8
47.5°	97.5	82.0	58.1	45.7	41.5	42.5	48.8	59.1	73.7	99.6	117.3
50°	84.1	69.5	50.8	38.4	35.3	37.4	43.6	52.9	65.4	88.2	102.7
52.5°	75.8	62.3	46.7	33.2	31.1	33.2	39.4	47.7	59.1	77.8	92.4
55°	71.6	61.2	46.7	30.1	27.0	29.1	35.3	43.6	52.9	70.6	83.0
57.5°	70.6	63.3	49.8	27.0	22.8	24.9	31.1	39.4	48.8	64.3	74.7
60°	66.4	60.2	48.8	21.8	17.6	20.8	25.9	34.2	44.6	60.2	69.5
62.5°	58.1	52.9	42.5	17.6	13.5	15.6	21.8	30.1	40.5	55.0	65.4
65°	47.7	42.5	33.2	11.4	8.3	10.4	16.6	25.9	35.3	49.8	59.1
67.5°	35.3	30.1	22.8	7.3	4.2	7.3	13.5	21.8	32.2	44.6	54.0
70°	21.8	17.6	12.5	4.2	3.1	6.2	12.5	20.8	29.1	41.5	50.8
72.5°	12.5	8.3	5.2	2.1	3.1	6.2	12.5	20.8	28.0	39.4	47.7
75°	9.3	5.2	2.1	1.0	2.1	5.2	11.4	18.7	27.0	37.4	45.7
77.5°	6.2	3.1	1.0	0.0	1.0	4.2	10.4	17.6	24.9	35.3	43.6
80°	1.0	0.0	0.0	0.0	0.0	3.1	9.3	15.6	22.8	31.1	38.4
82.5°	0.0	0.0	0.0	0.0	0.0	1.0	7.3	13.5	19.7	25.9	31.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	4.2	10.4	15.6	19.7	21.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	10.4	12.5	14.5
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°	454.5	454.5	454.5	454.5	454.5	454.5	454.5	454.5	454.5	454.5	454.5
2.5°	424.4	430.6	430.6	434.8	440.0	449.3	454.5	461.8	467.0	472.1	474.2
5°	392.2	393.3	394.3	396.4	402.6	413.0	422.3	433.7	447.2	457.6	463.8
7.5°	365.3	365.3	365.3	368.4	374.6	381.9	391.2	406.8	422.3	434.8	445.2
10°	342.4	345.5	346.6	351.8	359.0	368.4	378.8	392.2	409.9	426.5	445.2
12.5°	327.9	331.0	336.2	341.4	348.7	359.0	370.5	388.1	424.4	458.7	498.1
15°	314.4	318.6	324.8	332.1	340.4	351.8	364.2	400.5	485.6	550.0	612.2
17.5°	299.9	306.1	314.4	321.7	332.1	344.5	360.1	430.6	597.7	704.6	810.4
20°	281.2	289.5	298.9	310.3	322.7	337.2	360.1	492.9	759.6	913.2	1053.2
22.5°	263.6	271.9	283.3	297.8	312.3	326.9	365.3	587.3	968.2	1162.2	1339.6
25°	249.0	259.4	270.8	283.3	299.9	316.5	377.7	720.1	1219.3	1469.4	1594.9
27.5°	235.6	248.0	259.4	269.8	284.3	303.0	405.7	897.6	1516.0	1770.3	1868.9
30°	222.1	236.6	248.0	258.4	272.9	292.6	448.3	1123.8	1846.0	2093.0	2103.4
32.5°	210.6	224.1	237.6	248.0	261.5	284.3	507.4	1388.4	2184.3	2423.0	2325.4
35°	198.2	213.8	226.2	237.6	252.2	277.1	575.9	1673.8	2525.7	2726.0	2546.5
37.5°	185.7	203.4	219.0	227.3	241.8	269.8	625.7	1971.6	2874.4	3021.7	2740.5
40°	174.3	194.0	211.7	220.0	227.3	260.5	633.0	2276.7	3228.2	3313.3	2923.1
42.5°	161.9	183.7	199.2	210.6	216.9	254.2	589.4	2534.0	3525.0	3603.9	3161.8
45°	148.4	174.3	186.8	195.1	207.5	258.4	533.4	2733.2	3864.3	4000.3	3555.1
47.5°	134.9	164.0	174.3	180.6	197.2	283.3	512.6	2866.1	4423.6	4705.9	4218.2
50°	122.4	154.6	166.0	165.0	195.1	315.5	535.4	2966.7	5264.1	5596.2	5127.2
52.5°	109.0	144.2	157.7	153.6	210.6	340.4	581.1	3046.6	5910.6	6640.1	6348.5
55°	97.5	132.8	145.3	144.2	239.7	359.0	616.4	2625.3	6178.3	7610.3	7724.5
57.5°	89.2	120.4	130.7	148.4	258.4	359.0	712.9	1863.7	6183.5	8324.3	9550.8
60°	82.0	109.0	116.2	162.9	251.1	340.4	705.6	1141.4	5698.9	8275.5	10522.1
62.5°	75.8	98.6	107.9	167.1	222.1	337.2	637.1	707.7	4860.5	7645.6	9817.5
65°	70.6	90.3	103.8	153.6	201.3	361.1	429.6	508.5	3942.1	6927.5	9009.1
67.5°	65.4	83.0	110.0	125.6	182.6	322.7	310.3	361.1	3094.4	6139.9	8267.2
70°	61.2	78.9	116.2	102.7	159.8	252.2	220.0	273.9	2369.0	5123.0	7222.2
72.5°	58.1	73.7	97.5	80.9	129.7	195.1	153.6	199.2	1548.2	3999.2	5887.8
75°	55.0	67.4	71.6	65.4	96.5	127.6	116.2	133.9	922.5	2923.1	4467.2
77.5°	54.0	63.3	58.1	52.9	65.4	75.8	88.2	90.3	450.4	1462.1	2341.0
80°	47.7	57.1	49.8	43.6	44.6	49.8	65.4	60.2	102.7	371.5	624.7
82.5°	37.4	44.6	41.5	36.3	36.3	36.3	43.6	40.5	33.2	167.1	282.2
85°	25.9	31.1	31.1	29.1	28.0	28.0	27.0	25.9	9.3	10.4	15.6
87.5°	17.6	21.8	22.8	21.8	18.7	16.6	14.5	12.5	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°	454.5	454.5	454.5	454.5	454.5	454.5	454.5	454.5	454.5	454.5
2.5°	481.5	484.6	484.6	480.4	477.3	469.0	460.7	452.4	450.4	449.3
5°	481.5	493.9	500.2	499.1	491.9	478.4	460.7	442.1	436.9	434.8
7.5°	474.2	498.1	516.8	519.9	506.4	482.5	450.4	422.3	415.1	412.0
10°	490.8	537.5	574.9	580.1	564.5	517.8	465.9	418.2	406.8	399.5
12.5°	580.1	656.9	702.5	724.3	694.2	635.1	548.9	463.8	437.9	426.5
15°	760.6	869.6	956.7	956.7	928.7	823.9	715.0	576.9	541.7	510.5
17.5°	992.0	1129.0	1205.8	1197.5	1154.9	1081.3	950.5	752.3	680.7	648.5
20°	1255.6	1337.6	1355.2	1350.0	1331.3	1288.8	1198.5	985.8	889.3	839.5
22.5°	1483.9	1462.1	1436.1	1415.4	1410.2	1422.7	1410.2	1246.3	1170.5	1082.3
25°	1638.5	1515.0	1437.2	1399.8	1417.5	1489.1	1566.9	1505.7	1445.5	1354.2
27.5°	1722.5	1508.8	1396.7	1358.3	1388.4	1490.1	1659.2	1763.0	1700.8	1657.2
30°	1768.2	1503.6	1370.8	1333.4	1379.1	1506.7	1723.6	2003.8	2005.8	1936.3
32.5°	1833.6	1536.8	1376.0	1341.7	1402.9	1556.5	1804.5	2248.6	2308.8	2271.5
35°	1907.3	1587.6	1399.8	1368.7	1444.4	1622.9	1894.8	2495.6	2621.2	2608.7
37.5°	1976.8	1644.7	1455.9	1425.8	1507.7	1680.0	1982.0	2738.4	2912.8	2956.3
40°	2049.4	1724.6	1628.1	1657.2	1702.8	1770.3	2059.8	2949.1	3233.4	3298.8
42.5°	2220.6	2001.7	2149.0	2204.0	2210.3	2071.2	2230.0	3218.9	3548.9	3626.7
45°	2602.5	2494.6	2916.9	2994.7	2954.3	2533.0	2639.9	3608.0	3989.9	4029.3
47.5°	3085.0	3134.8	3968.1	4236.8	3994.0	3077.8	3136.9	4426.7	4797.2	4782.7
50°	3647.4	3883.0	5161.4	5795.4	5214.3	3785.5	3709.7	5433.3	5882.6	5838.0
52.5°	4312.6	4752.6	6595.5	7496.2	6946.2	4581.4	4550.2	6766.7	7040.6	6898.5
55°	5150.0	5592.1	8245.4	9504.1	8721.7	5552.6	5659.5	8312.8	8365.8	7914.4
57.5°	6399.4	6686.8	10190.0	11806.7	10575.0	6872.5	7647.7	10370.6	9737.6	8882.5
60°	8667.7	8094.9	12069.2	14162.2	12546.6	8729.0	10269.9	11589.8	10194.2	9015.4
62.5°	9457.4	9290.3	13246.0	15158.4	13872.7	10253.3	10951.7	10898.7	9602.7	8513.1
65°	8261.0	8992.5	13035.3	14632.3	13702.5	10002.2	9827.9	10136.0	8936.5	7750.4
67.5°	7631.1	8293.1	12237.3	13180.6	12759.3	9150.3	8760.1	8676.0	7502.4	6558.1
70°	6996.0	7651.8	11080.3	11197.6	11001.5	7761.8	7249.2	6685.8	5607.6	4786.8
72.5°	6232.3	6593.4	9475.0	8918.8	8696.8	6096.4	5988.4	5034.8	4203.6	3499.1
75°	5435.4	5330.6	7387.2	6121.3	6287.3	4743.2	5057.6	3697.2	3079.8	2518.4
77.5°	3953.6	3875.7	4947.7	3718.0	4117.5	3106.8	2791.4	1475.6	1405.0	1212.0
80°	2206.1	2659.6	2672.0	2083.7	2599.4	2025.5	698.4	48.8	31.1	45.7
82.5°	1025.2	1143.5	1448.6	966.1	1482.8	1003.4	144.2	0.0	0.0	0.0
85°	332.1	485.6	406.8	142.2	359.0	339.3	23.9	0.0	0.0	0.0
87.5°	19.7	40.5	10.4	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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