

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: P633751

Luminaire Tested: GWS-SA2F-735-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633751
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-SA2F-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9687.7 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

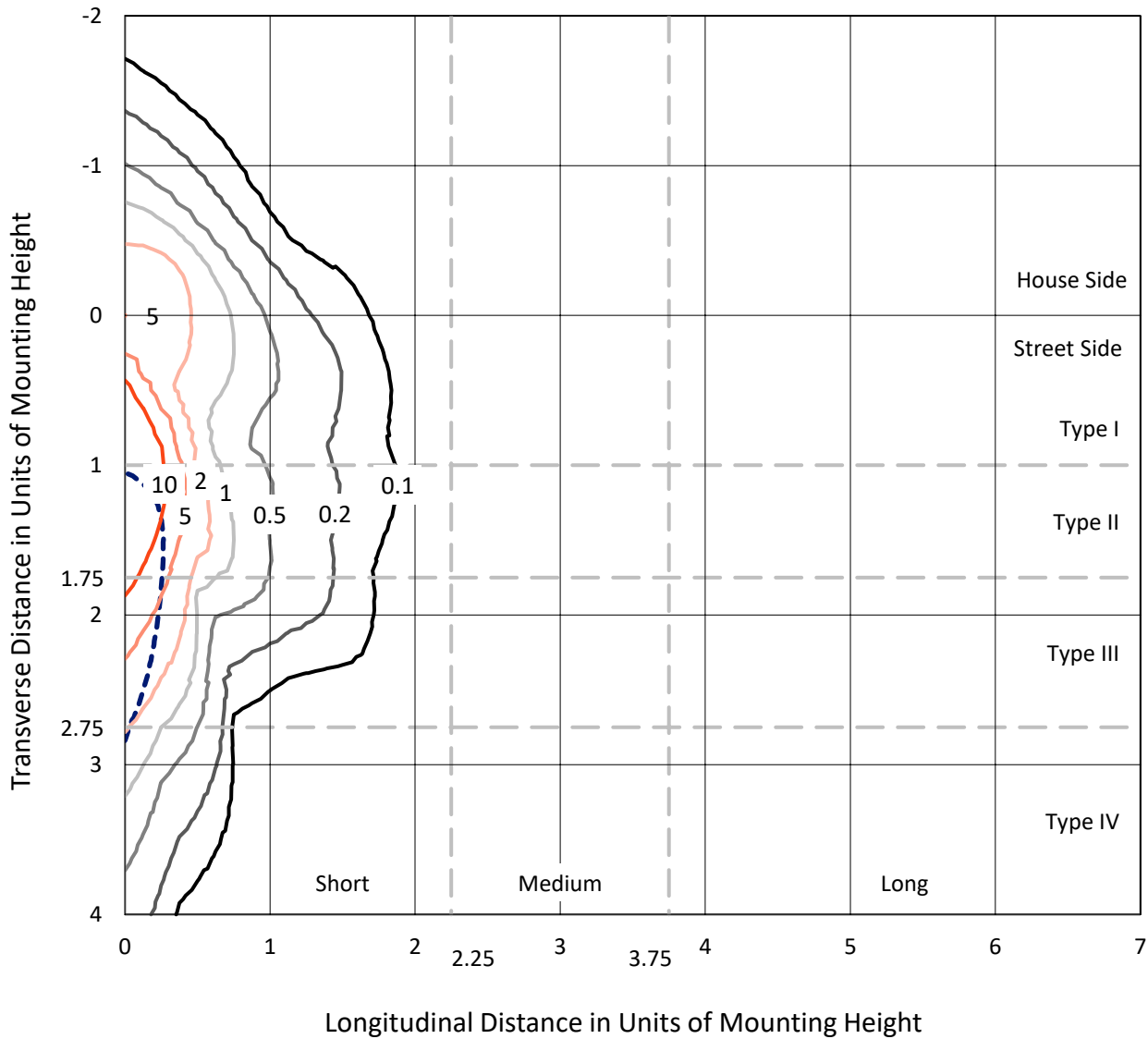
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

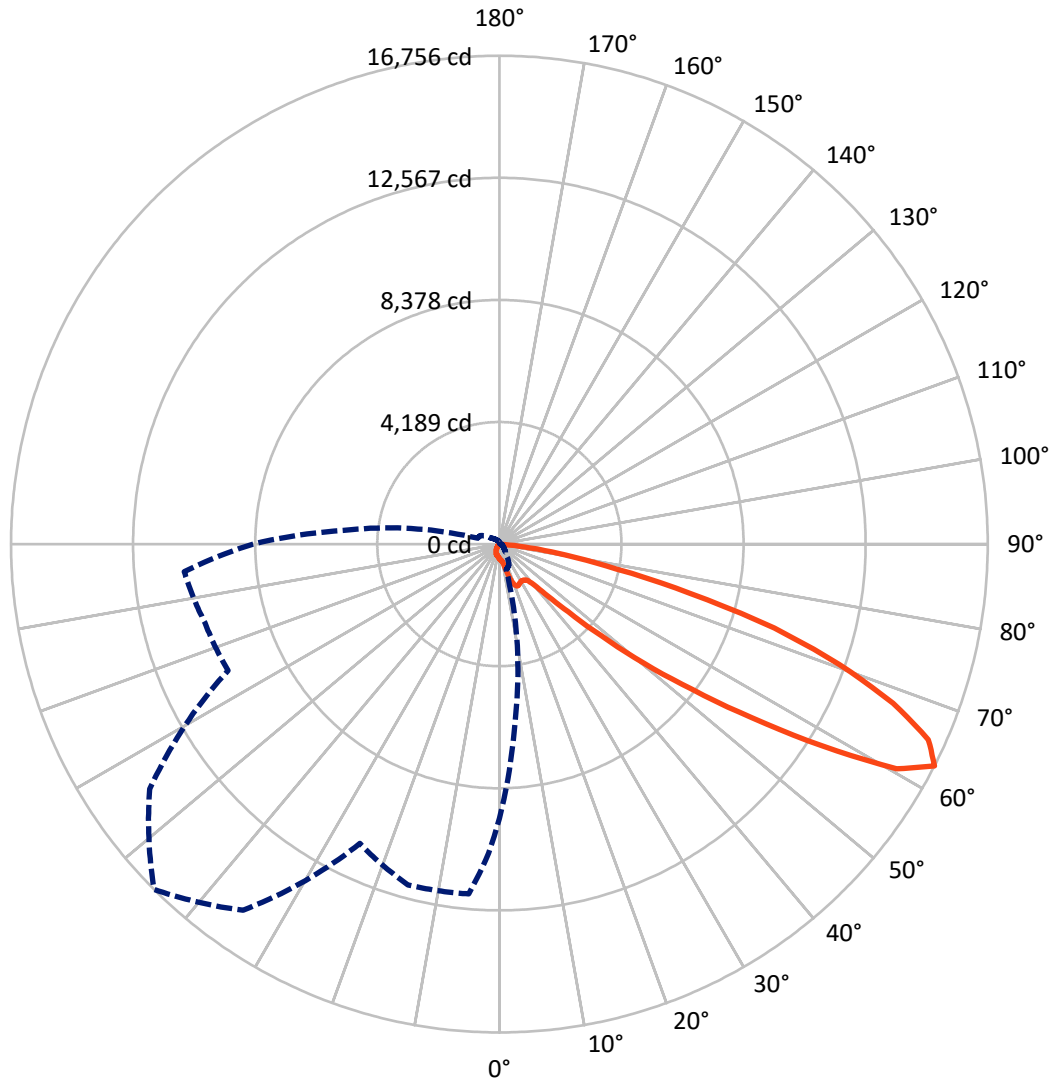
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.3 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	1125.6	0.0	1125.6
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	8562.1	0.0	8562.1
	% Fixture	88.4	0.0	88.4
Total	Lumens	9687.7	0.0	9687.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	0.4
10°-20°	148.7	1.5
20°-30°	335.9	3.5
30°-40°	578.7	6.0
40°-50°	1091.7	11.3
50°-60°	2437.5	25.2
60°-70°	3260.1	33.7
70°-80°	1634.9	16.9
80°-90°	156.7	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°	9687.7	100.0
0°-180°	9687.7	100.0

Coefficient of Utilization



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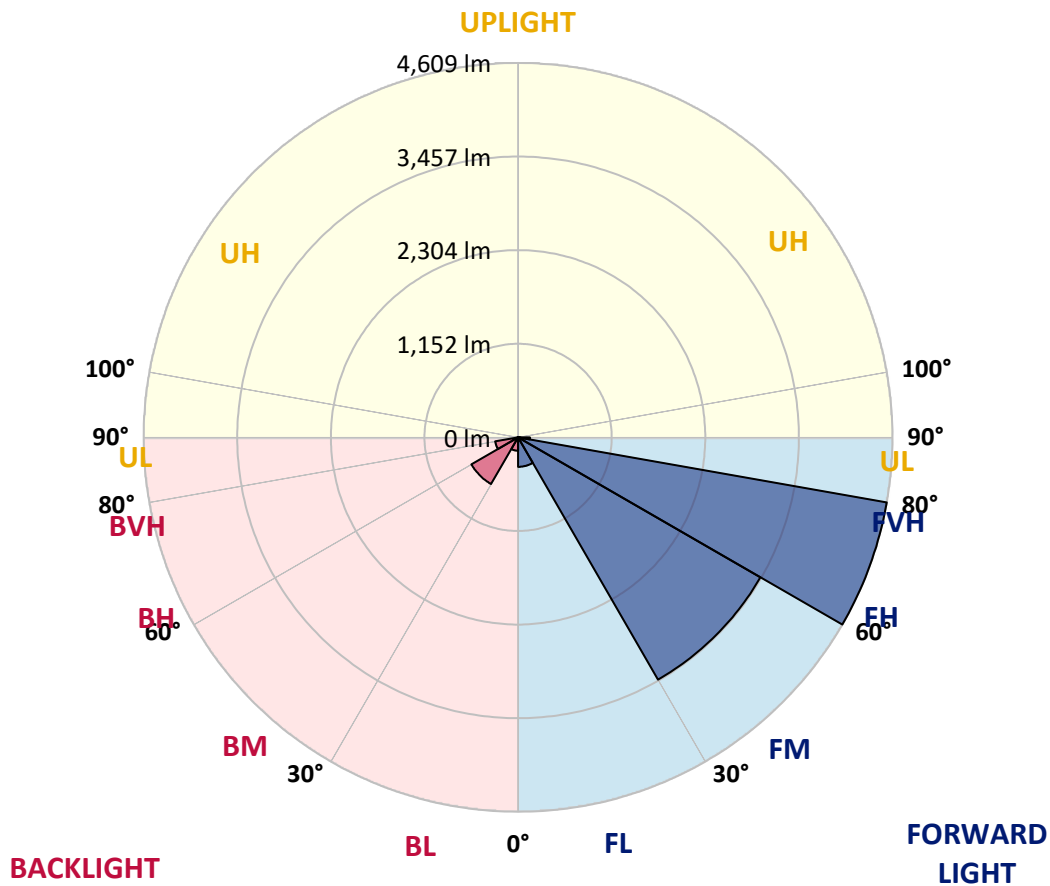
CATALOG NUMBER: GWS-SA2F-735-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	362.8	3.7			
FM (30°-60°)	3444.3	35.6			
FH (60°-80°)	4608.8	47.6			G2/5000
FVH (80°-90°)	146.3	1.5			G2/225
BL (0°-30°)	165.2	1.7	B1/500		
BM (30°-60°)	663.7	6.9	B1/1000		
BH (60°-80°)	286.2	3.0	B1/500		G1/500
BVH (80°-90°)	10.4	0.1			G1/100
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°	502.4	502.4	502.4	502.4	502.4	502.4	502.4	502.4	502.4	502.4	502.4
2.5°	496.7	495.5	493.2	486.4	480.6	477.2	470.3	470.3	469.2	466.9	462.3
5°	480.6	476.0	471.4	458.8	445.1	437.0	427.9	426.7	426.7	424.4	423.3
7.5°	455.4	450.8	445.1	424.4	411.8	403.8	395.7	394.6	391.2	391.2	391.2
10°	441.6	434.7	425.6	402.6	390.0	383.1	377.4	373.9	371.7	368.2	367.1
12.5°	471.4	458.8	439.3	398.0	380.8	371.7	364.8	362.5	355.6	351.0	347.6
15°	564.4	533.4	494.4	408.4	377.4	363.6	354.4	349.9	344.1	336.1	330.4
17.5°	716.9	672.2	606.8	441.6	373.9	356.7	345.3	337.2	329.2	320.0	313.2
20°	928.0	861.5	783.5	502.4	373.9	348.7	334.9	324.6	313.2	302.8	294.8
22.5°	1196.4	1129.9	996.8	605.7	378.5	338.4	322.3	308.6	294.8	285.6	276.4
25°	1496.9	1402.9	1279.0	730.7	391.2	324.6	307.4	293.7	281.0	269.6	259.2
27.5°	1831.9	1729.8	1564.6	908.5	418.7	310.9	291.4	278.7	267.3	255.8	242.0
30°	2140.4	2079.6	1911.0	1121.8	463.4	301.7	278.7	267.3	255.8	240.9	228.3
32.5°	2510.9	2403.1	2264.3	1365.0	523.1	292.5	268.4	252.4	243.2	229.4	215.6
35°	2883.7	2792.0	2609.6	1664.4	589.6	283.3	255.8	240.9	232.9	216.8	201.9
37.5°	3268.0	3247.4	3067.3	1995.9	655.0	273.0	240.9	231.7	223.7	205.3	188.1
40°	3646.5	3608.7	3442.4	2374.4	695.1	261.5	228.3	222.5	213.4	192.7	173.2
42.5°	4009.0	3980.3	3818.6	2736.9	689.4	251.2	215.6	208.8	201.9	181.2	157.1
45°	4454.1	4407.1	4202.9	3005.3	630.9	262.7	203.0	191.6	190.4	170.9	141.1
47.5°	5286.9	5132.0	4785.6	3211.8	572.4	292.5	189.3	175.5	183.5	160.6	125.0
50°	6453.4	6271.0	5769.8	3372.4	571.2	331.5	187.0	160.6	177.8	152.6	111.3
52.5°	7625.7	7304.6	6695.5	3458.4	613.7	360.2	207.6	145.7	170.9	144.5	100.9
55°	8748.7	8082.3	7083.2	3174.0	646.9	391.2	245.5	137.6	158.3	135.4	95.2
57.5°	9818.9	8707.4	7251.8	2510.9	758.2	403.8	268.4	141.1	139.9	123.9	90.6
60°	9965.8	8677.6	6911.1	1460.2	836.2	382.0	259.2	157.1	122.7	110.1	82.6
62.5°	9410.6	8100.6	6134.5	910.8	776.6	373.9	230.6	178.9	111.3	97.5	72.3
65°	8567.5	7195.6	5114.8	587.3	588.4	415.2	201.9	175.5	104.4	86.0	61.9
67.5°	7249.5	6022.1	4029.7	393.4	332.7	354.4	176.6	120.4	102.1	73.4	48.2
70°	5291.4	4286.6	2623.4	262.7	198.4	283.3	148.0	86.0	96.4	60.8	34.4
72.5°	3867.9	2880.3	1464.8	172.1	112.4	165.2	109.0	61.9	74.6	44.7	24.1
75°	2783.9	1982.1	836.2	110.1	74.6	90.6	71.1	42.4	48.2	35.6	21.8
77.5°	1339.8	965.8	379.7	60.8	50.5	45.9	37.9	26.4	29.8	32.1	19.5
80°	50.5	37.9	28.7	29.8	32.1	20.6	17.2	13.8	17.2	21.8	10.3
82.5°	0.0	0.0	0.0	3.4	4.6	5.7	6.9	5.7	6.9	8.0	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°	502.4	502.4	502.4	502.4	502.4	502.4	502.4	502.4	502.4	502.4	502.4
2.5°	465.7	463.4	465.7	468.0	470.3	472.6	469.2	471.4	473.7	468.0	470.3
5°	429.0	427.9	434.7	438.2	442.8	445.1	442.8	442.8	441.6	434.7	434.7
7.5°	396.9	398.0	403.8	411.8	417.5	421.0	418.7	417.5	414.1	403.8	403.8
10°	372.8	372.8	382.0	388.9	396.9	400.3	398.0	394.6	391.2	380.8	379.7
12.5°	353.3	353.3	360.2	371.7	380.8	385.4	384.3	379.7	373.9	363.6	362.5
15°	334.9	333.8	344.1	354.4	367.1	372.8	370.5	367.1	356.7	347.6	345.3
17.5°	316.6	315.4	324.6	338.4	352.2	360.2	359.0	351.0	341.8	330.4	328.1
20°	298.2	295.9	307.4	321.2	334.9	343.0	340.7	333.8	322.3	310.9	308.6
22.5°	279.9	278.7	286.8	298.2	310.9	317.7	316.6	310.9	299.4	289.1	289.1
25°	259.2	259.2	265.0	273.0	282.2	285.6	286.8	284.5	277.6	271.9	271.9
27.5°	242.0	238.6	240.9	243.2	247.8	253.5	253.5	255.8	256.9	254.7	255.8
30°	228.3	222.5	219.1	214.5	212.2	214.5	216.8	224.8	232.9	237.4	239.7
32.5°	212.2	205.3	196.1	183.5	175.5	173.2	180.1	195.0	209.9	220.2	226.0
35°	196.1	187.0	169.8	151.4	141.1	137.6	145.7	162.9	184.7	203.0	211.1
37.5°	180.1	167.5	143.4	121.6	110.1	107.8	115.9	134.2	159.4	184.7	195.0
40°	161.7	146.8	118.1	95.2	86.0	83.7	90.6	109.0	135.4	164.0	180.1
42.5°	143.4	125.0	95.2	75.7	66.5	66.5	75.7	89.5	113.6	144.5	164.0
45°	125.0	105.5	78.0	60.8	55.1	56.2	61.9	75.7	95.2	127.3	145.7
47.5°	107.8	90.6	64.2	50.5	45.9	47.0	53.9	65.4	81.4	110.1	129.6
50°	92.9	76.9	56.2	42.4	39.0	41.3	48.2	58.5	72.3	97.5	113.6
52.5°	83.7	68.8	51.6	36.7	34.4	36.7	43.6	52.8	65.4	86.0	102.1
55°	79.1	67.7	51.6	33.3	29.8	32.1	39.0	48.2	58.5	78.0	91.8
57.5°	78.0	70.0	55.1	29.8	25.2	27.5	34.4	43.6	53.9	71.1	82.6
60°	73.4	66.5	53.9	24.1	19.5	22.9	28.7	37.9	49.3	66.5	76.9
62.5°	64.2	58.5	47.0	19.5	14.9	17.2	24.1	33.3	44.7	60.8	72.3
65°	52.8	47.0	36.7	12.6	9.2	11.5	18.4	28.7	39.0	55.1	65.4
67.5°	39.0	33.3	25.2	8.0	4.6	8.0	14.9	24.1	35.6	49.3	59.6
70°	24.1	19.5	13.8	4.6	3.4	6.9	13.8	22.9	32.1	45.9	56.2
72.5°	13.8	9.2	5.7	2.3	3.4	6.9	13.8	22.9	31.0	43.6	52.8
75°	10.3	5.7	2.3	1.1	2.3	5.7	12.6	20.6	29.8	41.3	50.5
77.5°	6.9	3.4	1.1	0.0	1.1	4.6	11.5	19.5	27.5	39.0	48.2
80°	1.1	0.0	0.0	0.0	0.0	3.4	10.3	17.2	25.2	34.4	42.4
82.5°	0.0	0.0	0.0	0.0	0.0	1.1	8.0	14.9	21.8	28.7	34.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	4.6	11.5	17.2	21.8	24.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	11.5	13.8	16.1
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	502.4	502.4	502.4	502.4	502.4	502.4	502.4	502.4	502.4	502.4	502.4
2.5°	469.2	476.0	476.0	480.6	486.4	496.7	502.4	510.4	516.2	521.9	524.2
5°	433.6	434.7	435.9	438.2	445.1	456.5	466.9	479.5	494.4	505.9	512.7
7.5°	403.8	403.8	403.8	407.2	414.1	422.1	432.4	449.7	466.9	480.6	492.1
10°	378.5	382.0	383.1	388.9	396.9	407.2	418.7	433.6	453.1	471.4	492.1
12.5°	362.5	365.9	371.7	377.4	385.4	396.9	409.5	429.0	469.2	507.0	550.6
15°	347.6	352.2	359.0	367.1	376.2	388.9	402.6	442.8	536.8	607.9	676.8
17.5°	331.5	338.4	347.6	355.6	367.1	380.8	398.0	476.0	660.7	778.9	895.9
20°	310.9	320.0	330.4	343.0	356.7	372.8	398.0	544.9	839.7	1009.4	1164.3
22.5°	291.4	300.5	313.2	329.2	345.3	361.3	403.8	649.2	1070.2	1284.7	1480.9
25°	275.3	286.8	299.4	313.2	331.5	349.9	417.5	796.1	1347.8	1624.3	1763.1
27.5°	260.4	274.2	286.8	298.2	314.3	334.9	448.5	992.2	1675.9	1956.9	2065.9
30°	245.5	261.5	274.2	285.6	301.7	323.5	495.5	1242.3	2040.6	2313.6	2325.1
32.5°	232.9	247.8	262.7	274.2	289.1	314.3	560.9	1534.8	2414.6	2678.4	2570.6
35°	219.1	236.3	250.1	262.7	278.7	306.3	636.6	1850.2	2792.0	3013.4	2814.9
37.5°	205.3	224.8	242.0	251.2	267.3	298.2	691.7	2179.4	3177.4	3340.3	3029.4
40°	192.7	214.5	234.0	243.2	251.2	287.9	699.7	2516.7	3568.5	3662.6	3231.3
42.5°	178.9	203.0	220.2	232.9	239.7	281.0	651.5	2801.2	3896.6	3983.8	3495.1
45°	164.0	192.7	206.5	215.6	229.4	285.6	589.6	3021.4	4271.7	4422.0	3929.9
47.5°	149.1	181.2	192.7	199.6	217.9	313.2	566.7	3168.2	4890.0	5202.0	4662.9
50°	135.4	170.9	183.5	182.4	215.6	348.7	591.9	3279.5	5819.1	6186.2	5667.7
52.5°	120.4	159.4	174.4	169.8	232.9	376.2	642.4	3367.8	6533.7	7340.1	7017.8
55°	107.8	146.8	160.6	159.4	265.0	396.9	681.4	2902.1	6829.7	8412.6	8538.8
57.5°	98.6	133.1	144.5	164.0	285.6	396.9	788.0	2060.1	6835.4	9201.8	10557.7
60°	90.6	120.4	128.5	180.1	277.6	376.2	780.0	1261.8	6299.7	9147.9	11631.3
62.5°	83.7	109.0	119.3	184.7	245.5	372.8	704.3	782.3	5372.9	8451.6	10852.5
65°	78.0	99.8	114.7	169.8	222.5	399.2	474.9	562.1	4357.7	7657.9	9958.9
67.5°	72.3	91.8	121.6	138.8	201.9	356.7	343.0	399.2	3420.6	6787.2	9138.7
70°	67.7	87.2	128.5	113.6	176.6	278.7	243.2	302.8	2618.8	5663.1	7983.6
72.5°	64.2	81.4	107.8	89.5	143.4	215.6	169.8	220.2	1711.4	4420.8	6508.5
75°	60.8	74.6	79.1	72.3	106.7	141.1	128.5	148.0	1019.7	3231.3	4938.1
77.5°	59.6	70.0	64.2	58.5	72.3	83.7	97.5	99.8	497.8	1616.2	2587.8
80°	52.8	63.1	55.1	48.2	49.3	55.1	72.3	66.5	113.6	410.7	690.5
82.5°	41.3	49.3	45.9	40.1	40.1	40.1	48.2	44.7	36.7	184.7	312.0
85°	28.7	34.4	34.4	32.1	31.0	31.0	29.8	28.7	10.3	11.5	17.2
87.5°	19.5	24.1	25.2	24.1	20.6	18.4	16.1	13.8	4.6	0.0	2.3
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°	502.4	502.4	502.4	502.4	502.4	502.4	502.4	502.4	502.4	502.4
2.5°	532.2	535.7	535.7	531.1	527.7	518.5	509.3	500.1	497.8	496.7
5°	532.2	546.0	552.9	551.7	543.7	528.8	509.3	488.7	482.9	480.6
7.5°	524.2	550.6	571.2	574.7	559.8	533.4	497.8	466.9	458.8	455.4
10°	542.6	594.2	635.5	641.2	624.0	572.4	515.0	462.3	449.7	441.6
12.5°	641.2	726.1	776.6	800.7	767.4	702.0	606.8	512.7	484.1	471.4
15°	840.8	961.2	1057.6	1057.6	1026.6	910.8	790.3	637.8	598.8	564.4
17.5°	1096.6	1248.0	1332.9	1323.7	1276.7	1195.3	1050.7	831.6	752.5	716.9
20°	1388.0	1478.6	1498.1	1492.3	1471.7	1424.7	1324.9	1089.7	983.0	928.0
22.5°	1640.3	1616.2	1587.5	1564.6	1558.9	1572.6	1558.9	1377.6	1293.9	1196.4
25°	1811.2	1674.7	1588.7	1547.4	1566.9	1646.0	1732.1	1664.4	1597.9	1496.9
27.5°	1904.1	1667.8	1544.0	1501.5	1534.8	1647.2	1834.2	1948.9	1880.1	1831.9
30°	1954.6	1662.1	1515.3	1474.0	1524.5	1665.6	1905.3	2215.0	2217.3	2140.4
32.5°	2026.9	1698.8	1521.0	1483.2	1550.8	1720.6	1994.8	2485.7	2552.2	2510.9
35°	2108.3	1755.0	1547.4	1513.0	1596.7	1794.0	2094.6	2758.7	2897.5	2883.7
37.5°	2185.2	1818.1	1609.3	1576.1	1666.7	1857.1	2190.9	3027.1	3219.8	3268.0
40°	2265.5	1906.4	1799.8	1831.9	1882.3	1956.9	2276.9	3260.0	3574.3	3646.5
42.5°	2454.7	2212.7	2375.6	2436.4	2443.3	2289.6	2465.1	3558.2	3923.0	4009.0
45°	2876.9	2757.6	3224.4	3310.5	3265.7	2800.0	2918.2	3988.4	4410.5	4454.1
47.5°	3410.2	3465.3	4386.4	4683.5	4415.1	3402.2	3467.6	4893.4	5302.9	5286.9
50°	4032.0	4292.3	5705.5	6406.4	5764.0	4184.5	4100.8	6006.1	6502.8	6453.4
52.5°	4767.2	5253.6	7290.8	8286.5	7678.5	5064.3	5029.9	7480.1	7782.9	7625.7
55°	5692.9	6181.6	9114.6	10506.0	9641.1	6138.0	6256.1	9189.2	9247.7	8748.7
57.5°	7074.0	7391.7	11264.3	13051.4	11689.8	7597.1	8453.9	11463.8	10764.1	9818.9
60°	9581.5	8948.3	13341.6	15655.3	13869.3	9649.2	11352.6	12811.7	11268.8	9965.8
62.5°	10454.4	10269.7	14642.4	16756.4	15335.2	11334.2	12106.2	12047.7	10615.0	9410.6
65°	9131.8	9940.5	14409.5	16174.9	15147.1	11056.6	10863.9	11204.6	9878.6	8567.5
67.5°	8435.6	9167.4	13527.4	14570.1	14104.4	10114.9	9683.6	9590.7	8293.3	7249.5
70°	7733.6	8458.5	12248.4	12378.1	12161.3	8580.1	8013.5	7390.6	6198.8	5291.4
72.5°	6889.3	7288.5	10473.9	9859.1	9613.6	6739.1	6619.8	5565.6	4646.8	3867.9
75°	6008.4	5892.5	8166.0	6766.6	6950.1	5243.3	5590.8	4087.0	3404.5	2783.9
77.5°	4370.3	4284.3	5469.2	4110.0	4551.6	3434.3	3085.6	1631.1	1553.1	1339.8
80°	2438.7	2939.9	2953.7	2303.3	2873.4	2239.1	772.0	53.9	34.4	50.5
82.5°	1133.3	1264.1	1601.3	1067.9	1639.2	1109.2	159.4	0.0	0.0	0.0
85°	367.1	536.8	449.7	157.1	396.9	375.1	26.4	0.0	0.0	0.0
87.5°	21.8	44.7	11.5	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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