

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: P637495

Luminaire Tested: GWS-SA4C-830-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637495
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-830-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9569.8 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

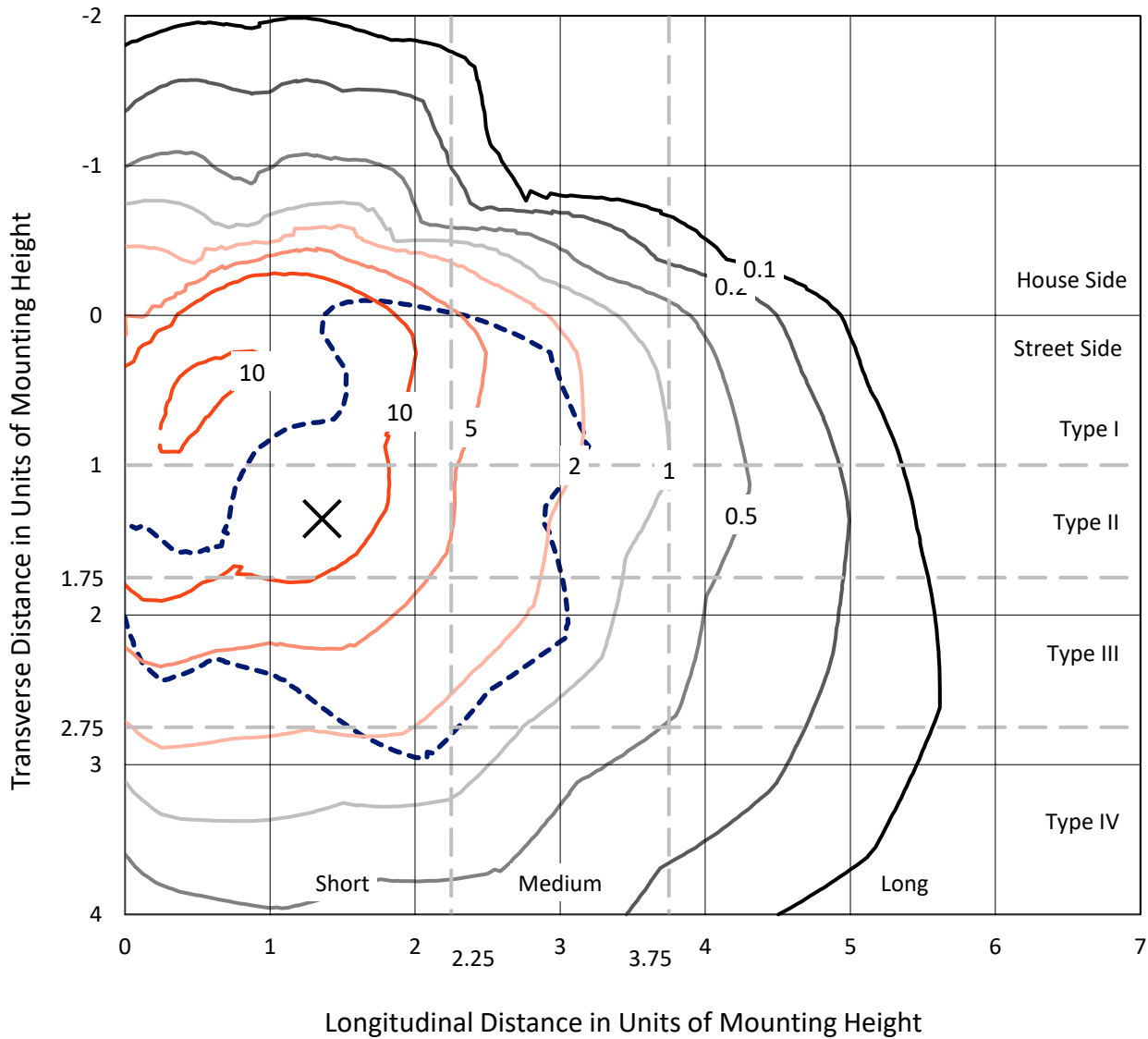
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

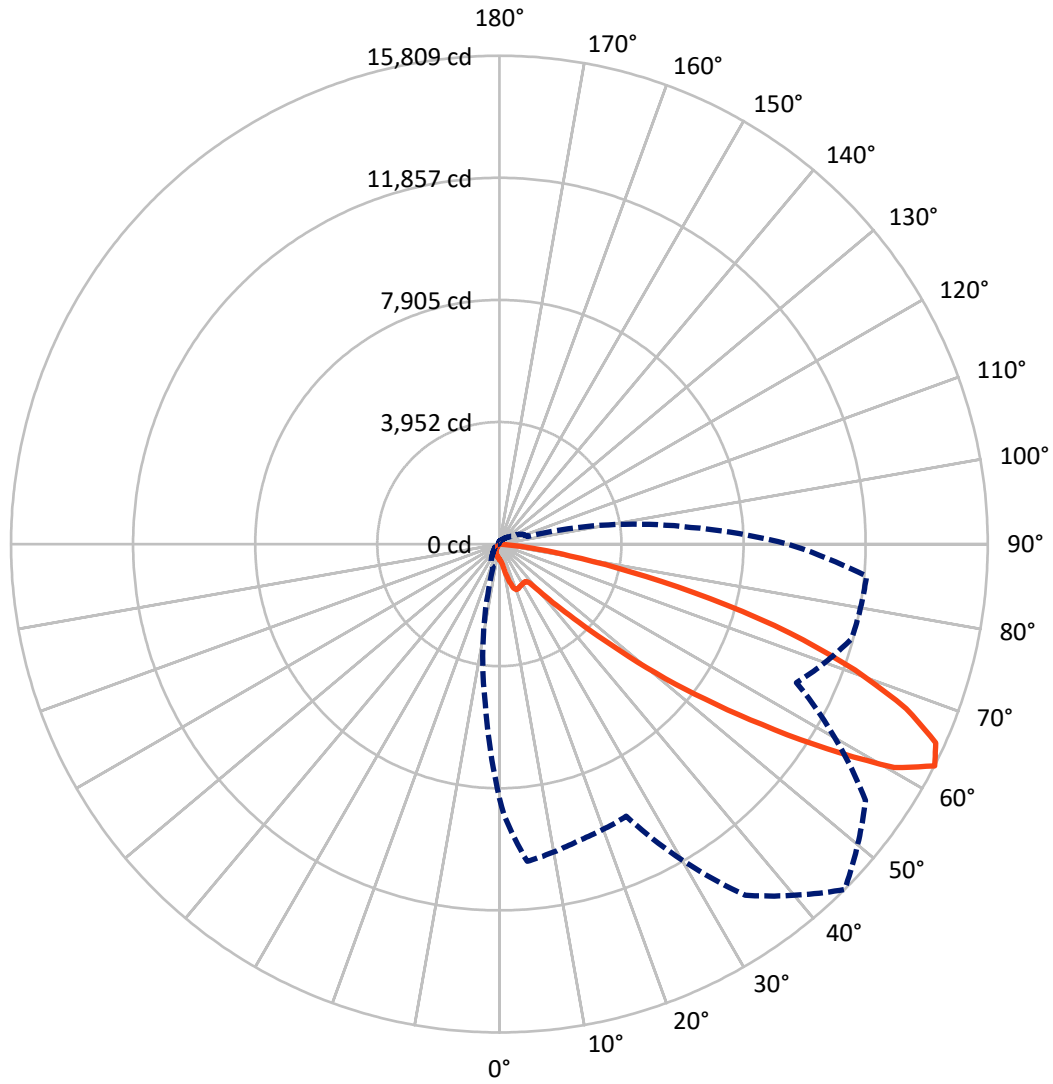
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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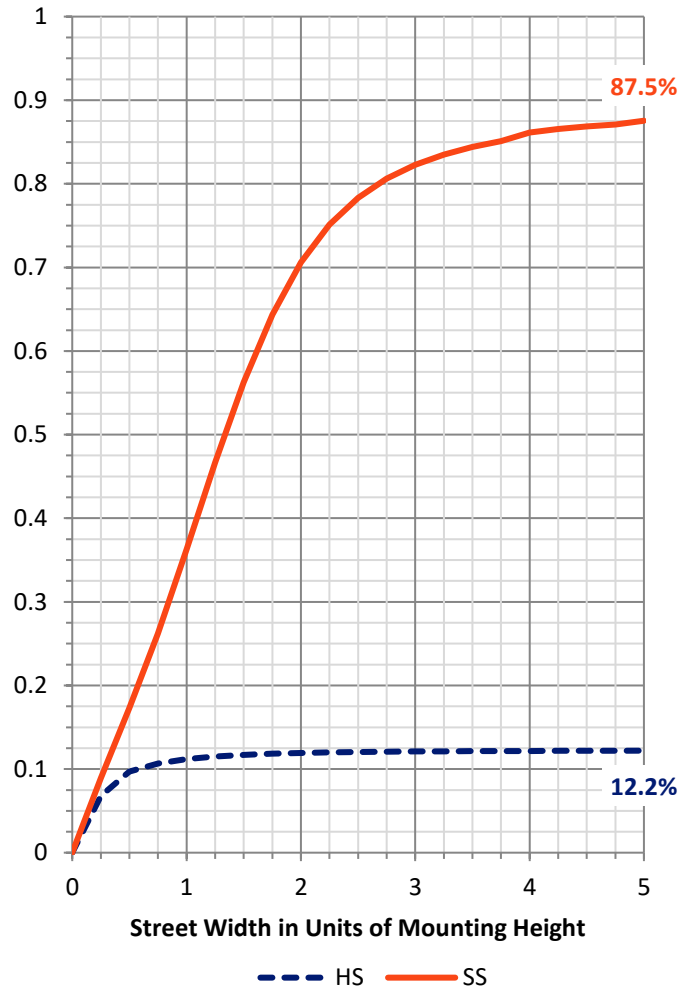
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1180.9	0.0	1180.9
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	8388.9	0.0	8388.9
	% Fixture	87.7	0.0	87.7
Total	Lumens	9569.8	0.0	9569.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	0.5
10°-20°	166.8	1.7
20°-30°	362.7	3.8
30°-40°	595.3	6.2
40°-50°	1094.4	11.4
50°-60°	2350.2	24.6
60°-70°	3156.7	33.0
70°-80°	1643.7	17.2
80°-90°	155.8	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°	9569.8	100.0
0°-180°	9569.8	100.0

Coefficient of Utilization



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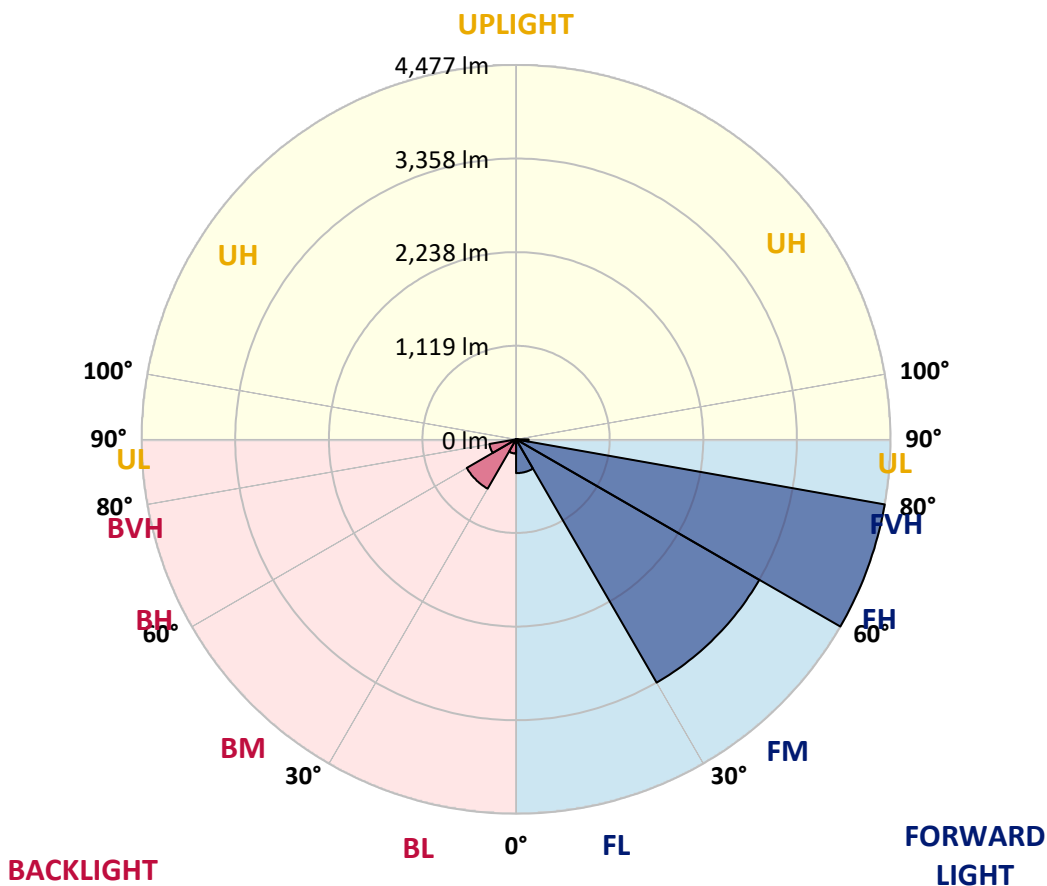
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	404.3	4.2			
FM (30°-60°)	3358.9	35.1			
FH (60°-80°)	4476.8	46.8			G2/5000
FVH (80°-90°)	148.9	1.6			G2/225
BL (0°-30°)	169.4	1.8	B1/500		
BM (30°-60°)	681.0	7.1	B1/1000		
BH (60°-80°)	323.6	3.4	B1/500		G1/500
BVH (80°-90°)	6.9	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	497.4	497.4	497.4	497.4	497.4	497.4	497.4	497.4	497.4	497.4	497.4
2.5°	507.4	509.6	511.8	519.5	525.1	529.5	530.6	527.3	519.5	511.8	500.7
5°	491.9	494.1	501.9	522.9	543.9	560.4	566.0	562.6	543.9	519.5	494.1
7.5°	490.8	495.2	514.0	558.2	603.5	637.8	646.7	638.9	603.5	554.9	503.0
10°	530.6	538.3	566.0	645.6	728.5	789.3	813.6	780.4	724.0	635.6	550.5
12.5°	634.5	647.8	700.8	816.9	945.1	1025.8	1059.0	1018.1	929.6	801.4	666.6
15°	798.1	818.0	897.6	1071.1	1222.6	1294.4	1305.5	1282.3	1179.5	1038.0	856.7
17.5°	1029.1	1057.9	1181.7	1358.5	1468.0	1493.4	1490.1	1465.8	1390.6	1293.3	1122.0
20°	1305.5	1339.7	1461.3	1607.2	1618.3	1588.5	1571.9	1557.5	1532.1	1515.5	1381.7
22.5°	1584.0	1626.0	1753.2	1789.6	1690.2	1603.9	1563.0	1574.1	1611.7	1693.5	1639.3
25°	1861.5	1901.3	2020.7	1922.3	1723.3	1579.6	1527.7	1554.2	1643.7	1820.6	1890.2
27.5°	2185.4	2215.2	2286.0	2012.9	1728.8	1559.7	1508.9	1549.8	1659.2	1900.2	2165.5
30°	2522.5	2540.2	2505.9	2037.2	1710.1	1529.9	1490.1	1549.8	1685.7	1953.2	2372.2
32.5°	2770.1	2773.4	2661.8	2039.5	1700.1	1505.6	1472.4	1543.1	1711.2	1997.5	2572.3
35°	3025.5	3008.9	2811.0	2072.6	1726.6	1514.4	1485.7	1561.9	1751.0	2049.4	2748.0
37.5°	3284.1	3254.3	2977.9	2126.8	1795.2	1610.6	1592.9	1658.1	1815.1	2121.3	2941.5
40°	3549.4	3508.5	3151.5	2208.6	1947.7	1937.8	1998.6	1990.8	1990.8	2213.0	3140.4
42.5°	3873.3	3825.8	3407.9	2439.6	2303.7	2525.8	2691.6	2588.8	2398.7	2424.1	3399.1
45°	4301.1	4260.2	3852.3	2881.8	2861.9	3372.6	3595.9	3392.5	2919.4	2911.6	3831.3
47.5°	4985.3	4977.6	4560.9	3394.7	3545.0	4450.3	4881.4	4490.1	3513.0	3427.8	4649.3
50°	5947.0	5923.8	5444.1	3996.0	4357.5	5785.7	6555.0	5902.8	4230.4	4030.3	5744.8
52.5°	7030.3	7054.7	6681.0	4652.6	5220.8	7271.3	8342.4	7521.1	5009.7	4796.3	7123.2
55°	8050.6	8189.9	8091.5	5420.9	6064.2	8911.7	10305.6	9296.4	5974.7	5798.9	8668.5
57.5°	8848.7	9241.1	9930.9	6537.3	7055.8	10830.7	12497.6	11220.9	7101.1	7427.2	10772.1
60°	8892.9	9412.5	11014.2	8873.0	8331.4	12476.6	14686.3	13101.2	8871.9	10191.8	12420.3
62.5°	8226.4	8783.5	10308.9	9934.2	9720.9	13877.2	15809.4	14471.9	10614.0	11811.2	11931.7
65°	7463.7	8026.3	9521.9	8730.4	9559.5	13817.5	15524.2	14503.9	10772.1	10710.2	11057.3
67.5°	6310.7	6815.9	8170.0	7727.8	8811.1	13150.9	14206.6	13589.8	9924.3	10017.1	10171.9
70°	4606.2	5092.6	6349.4	6371.5	7694.7	11949.4	12206.9	12121.8	9139.4	9237.8	8795.7
72.5°	3327.2	3737.4	4821.7	5225.2	6142.7	10020.4	9842.5	10170.8	7841.7	8227.5	7064.6
75°	2392.1	2699.4	3537.3	4545.4	4869.3	7441.5	7045.8	7877.1	6291.9	7084.5	5311.4
77.5°	970.5	1078.9	1391.7	3062.0	3200.1	5006.3	4313.3	5721.5	4485.7	4654.8	2574.5
80°	39.8	44.2	57.5	1580.7	2194.2	2816.6	2308.1	3058.6	2962.5	1874.8	608.0
82.5°	4.4	4.4	9.9	455.4	960.6	1554.2	1087.7	1762.0	1500.0	794.8	276.3
85°	1.1	1.1	2.2	52.0	225.5	248.7	147.0	540.5	697.5	325.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	9.9	11.1	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°	497.4	497.4	497.4	497.4	497.4	497.4	497.4	497.4	497.4	497.4	497.4
2.5°	500.7	495.2	488.6	482.0	478.6	469.8	466.5	464.3	462.1	463.2	463.2
5°	484.2	472.0	457.6	443.3	435.5	426.7	422.3	420.1	421.2	425.6	425.6
7.5°	482.0	458.7	427.8	409.0	400.2	393.5	389.1	386.9	388.0	393.5	395.7
10°	518.4	477.5	422.3	390.2	380.3	373.6	369.2	365.9	363.7	368.1	369.2
12.5°	596.9	540.5	448.8	388.0	370.3	361.5	358.1	351.5	348.2	350.4	351.5
15°	759.4	662.1	501.9	396.8	361.5	351.5	346.0	340.5	334.9	333.8	334.9
17.5°	971.6	832.4	582.5	417.8	354.8	342.7	334.9	327.2	319.5	318.4	317.2
20°	1234.7	1041.3	695.3	451.0	349.3	334.9	323.9	312.8	302.9	299.6	299.6
22.5°	1474.6	1293.3	840.1	491.9	341.6	323.9	310.6	297.4	286.3	280.8	279.7
25°	1767.5	1560.8	1013.7	539.4	330.5	309.5	295.1	281.9	270.8	264.2	262.0
27.5°	2062.7	1842.7	1210.4	601.3	317.2	295.1	281.9	269.7	257.6	249.8	247.6
30°	2349.0	2146.7	1431.5	678.7	307.3	280.8	269.7	257.6	246.5	234.3	231.0
32.5°	2656.3	2457.3	1679.1	764.9	299.6	270.8	258.7	247.6	233.2	222.2	216.7
35°	2952.5	2777.9	1952.1	848.9	291.8	262.0	248.7	237.7	222.2	210.0	202.3
37.5°	3251.0	3104.0	2237.3	899.8	280.8	249.8	237.7	228.8	211.1	196.8	187.9
40°	3567.1	3441.1	2545.7	878.8	270.8	236.6	229.9	220.0	200.1	183.5	172.4
42.5°	3914.2	3762.8	2859.7	798.1	262.0	225.5	218.9	208.9	190.1	170.2	155.9
45°	4350.8	4115.4	3117.2	676.5	266.4	214.4	201.2	199.0	181.3	155.9	138.2
47.5°	5101.4	4657.0	3317.3	598.0	296.2	202.3	186.8	192.3	173.5	141.5	121.6
50°	6249.9	5554.6	3504.1	592.5	341.6	196.8	173.5	187.9	165.8	127.1	107.2
52.5°	7344.3	6466.6	3623.5	641.1	381.4	211.1	160.3	182.4	160.3	117.2	97.3
55°	8391.1	6992.8	3410.2	676.5	418.9	254.2	150.3	173.5	153.7	111.6	94.0
57.5°	9519.7	7227.1	2685.0	748.4	445.5	290.7	152.5	160.3	144.8	108.3	92.9
60°	9856.8	6927.5	1620.5	842.3	431.1	301.8	169.1	142.6	132.6	101.7	89.5
62.5°	9332.9	6216.8	956.2	767.1	418.9	285.2	193.4	131.5	120.5	92.9	82.9
65°	8549.2	5251.7	623.4	647.8	444.4	254.2	205.6	126.0	109.4	84.0	73.0
67.5°	7653.8	4230.4	436.6	382.5	410.1	228.8	173.5	124.9	98.4	70.7	59.7
70°	6446.7	3168.1	307.3	253.1	341.6	203.4	134.9	121.6	86.2	57.5	46.4
72.5°	4980.9	1983.1	228.8	163.6	243.2	165.8	107.2	102.8	69.6	47.5	35.4
75°	3673.2	1130.8	161.4	118.3	160.3	126.0	79.6	73.0	59.7	45.3	32.1
77.5°	1917.9	566.0	100.6	90.6	91.7	78.5	57.5	53.1	55.3	45.3	29.8
80°	368.1	112.8	60.8	66.3	49.7	49.7	42.0	44.2	48.6	36.5	25.4
82.5°	153.7	24.3	33.2	37.6	31.0	34.3	34.3	35.4	34.3	26.5	18.8
85°	0.0	0.0	14.4	15.5	21.0	21.0	17.7	17.7	17.7	15.5	11.1
87.5°	0.0	0.0	0.0	0.0	1.1	3.3	6.6	7.7	8.8	6.6	4.4
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°	497.4	497.4	497.4	497.4	497.4	497.4	497.4	497.4	497.4	497.4	497.4
2.5°	462.1	459.8	463.2	465.4	467.6	467.6	465.4	463.2	459.8	463.2	459.8
5°	426.7	430.0	435.5	437.7	439.9	435.5	433.3	426.7	421.2	422.3	420.1
7.5°	399.0	402.4	409.0	413.4	413.4	411.2	404.6	397.9	389.1	389.1	388.0
10°	373.6	378.0	385.8	391.3	393.5	391.3	384.7	375.8	368.1	368.1	364.8
12.5°	352.6	358.1	367.0	374.7	376.9	374.7	368.1	359.3	350.4	350.4	348.2
15°	334.9	341.6	351.5	360.4	363.7	360.4	352.6	341.6	332.7	333.8	330.5
17.5°	318.4	323.9	337.1	347.1	350.4	347.1	337.1	322.8	313.9	316.1	313.9
20°	299.6	306.2	319.5	330.5	333.8	330.5	319.5	304.0	295.1	295.1	296.2
22.5°	279.7	286.3	299.6	307.3	311.7	308.4	297.4	283.0	274.1	274.1	275.2
25°	262.0	265.3	275.2	283.0	284.1	280.8	271.9	260.9	254.2	257.6	258.7
27.5°	245.4	245.4	249.8	254.2	253.1	249.8	246.5	237.7	236.6	239.9	243.2
30°	227.7	222.2	220.0	216.7	215.6	214.4	217.8	217.8	220.0	224.4	227.7
32.5°	212.2	201.2	191.2	181.3	175.8	180.2	189.0	196.8	204.5	211.1	214.4
35°	194.6	176.9	160.3	147.0	138.2	144.8	159.2	173.5	186.8	195.7	201.2
37.5°	176.9	151.4	131.5	115.0	108.3	113.9	129.3	149.2	169.1	180.2	187.9
40°	158.1	126.0	102.8	89.5	82.9	88.4	103.9	123.8	150.3	164.7	174.7
42.5°	139.3	103.9	82.9	69.6	66.3	69.6	81.8	101.7	130.4	148.1	161.4
45°	120.5	86.2	66.3	56.4	53.1	56.4	66.3	82.9	111.6	131.5	147.0
47.5°	103.9	73.0	55.3	46.4	44.2	47.5	55.3	69.6	94.0	113.9	131.5
50°	90.6	64.1	47.5	39.8	37.6	40.9	47.5	58.6	79.6	97.3	116.1
52.5°	81.8	59.7	42.0	34.3	33.2	35.4	40.9	49.7	67.4	82.9	100.6
55°	79.6	59.7	38.7	31.0	29.8	32.1	36.5	43.1	58.6	71.9	87.3
57.5°	81.8	64.1	36.5	26.5	25.4	27.6	32.1	37.6	50.8	61.9	76.3
60°	81.8	65.2	32.1	21.0	19.9	22.1	26.5	33.2	45.3	54.2	66.3
62.5°	74.1	59.7	26.5	16.6	14.4	16.6	22.1	27.6	39.8	48.6	58.6
65°	64.1	50.8	22.1	12.2	9.9	12.2	17.7	23.2	34.3	42.0	53.1
67.5°	52.0	38.7	16.6	8.8	6.6	8.8	13.3	18.8	28.7	36.5	47.5
70°	38.7	27.6	13.3	7.7	6.6	7.7	12.2	17.7	25.4	33.2	44.2
72.5°	28.7	18.8	11.1	7.7	5.5	7.7	11.1	16.6	24.3	32.1	42.0
75°	24.3	15.5	9.9	6.6	5.5	6.6	9.9	15.5	22.1	29.8	39.8
77.5°	23.2	14.4	8.8	5.5	4.4	5.5	8.8	13.3	19.9	27.6	38.7
80°	19.9	12.2	7.7	4.4	3.3	4.4	7.7	11.1	15.5	21.0	29.8
82.5°	15.5	9.9	5.5	2.2	1.1	2.2	5.5	6.6	9.9	12.2	17.7
85°	9.9	5.5	2.2	0.0	0.0	0.0	2.2	4.4	4.4	5.5	8.8
87.5°	4.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.2	3.3
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°	359°	360°
0°	497.4	497.4	497.4	497.4	497.4	497.4	497.4	497.4	497.4	497.4
2.5°	466.5	467.6	469.8	473.1	480.8	487.5	494.1	503.0	507.4	507.4
5°	422.3	423.4	424.5	428.9	439.9	448.8	463.2	480.8	489.7	491.9
7.5°	388.0	390.2	392.4	395.7	406.8	418.9	437.7	470.9	487.5	490.8
10°	368.1	371.4	375.8	382.5	392.4	405.7	437.7	497.4	525.1	530.6
12.5°	352.6	358.1	362.6	370.3	382.5	403.5	467.6	572.6	621.2	634.5
15°	337.1	343.8	350.4	358.1	371.4	411.2	525.1	707.5	788.1	798.1
17.5°	321.7	329.4	338.3	347.1	363.7	430.0	615.7	894.3	1007.0	1029.1
20°	304.0	313.9	326.1	337.1	355.9	459.8	741.7	1116.5	1257.9	1305.5
22.5°	285.2	297.4	311.7	326.1	347.1	496.3	894.3	1355.2	1553.1	1584.0
25°	269.7	281.9	295.1	309.5	332.7	540.5	1078.9	1651.5	1831.6	1861.5
27.5°	255.3	267.5	279.7	292.9	318.4	598.0	1301.1	1966.5	2154.4	2185.4
30°	239.9	254.2	266.4	279.7	305.1	668.8	1557.5	2315.8	2493.8	2522.5
32.5°	226.6	241.0	253.1	266.4	295.1	746.1	1827.2	2625.3	2770.1	2770.1
35°	215.6	231.0	239.9	257.6	287.4	795.9	2082.6	2920.5	3029.9	3025.5
37.5°	203.4	222.2	228.8	241.0	277.5	801.4	2322.4	3232.2	3312.9	3284.1
40°	191.2	211.1	221.1	227.7	266.4	756.1	2585.5	3518.5	3587.0	3549.4
42.5°	180.2	195.7	210.0	217.8	259.8	676.5	2796.7	3824.7	3906.5	3873.3
45°	169.1	182.4	191.2	205.6	264.2	621.2	2977.9	4181.7	4325.4	4301.1
47.5°	158.1	169.1	174.7	196.8	294.0	595.8	3088.5	4734.4	5005.2	4985.3
50°	145.9	159.2	159.2	194.6	338.3	604.7	3184.7	5534.7	5953.7	5947.0
52.5°	133.8	148.1	145.9	211.1	372.5	645.6	3294.1	6241.1	6969.5	7030.3
55°	121.6	134.9	137.1	244.3	392.4	680.9	2870.7	6538.4	7837.3	8050.6
57.5°	108.3	116.1	142.6	269.7	385.8	783.7	1966.5	6592.6	8391.1	8848.7
60°	94.0	100.6	161.4	264.2	364.8	724.0	1238.0	6106.2	8312.6	8892.9
62.5°	81.8	92.9	170.2	233.2	371.4	627.9	789.3	5204.2	7564.2	8226.4
65°	71.9	89.5	154.8	211.1	375.8	425.6	532.8	4233.7	6833.6	7463.7
67.5°	64.1	99.5	127.1	187.9	322.8	299.6	365.9	3289.7	5745.9	6310.7
70°	58.6	101.7	103.9	161.4	249.8	192.3	241.0	2214.1	3960.6	4606.2
72.5°	53.1	75.2	78.5	129.3	161.4	117.2	155.9	1266.8	2887.3	3327.2
75°	50.8	50.8	54.2	84.0	89.5	85.1	100.6	756.1	2070.4	2392.1
77.5°	47.5	38.7	34.3	54.2	48.6	60.8	59.7	336.0	897.6	970.5
80°	37.6	27.6	23.2	34.3	33.2	40.9	35.4	27.6	40.9	39.8
82.5°	23.2	17.7	16.6	21.0	18.8	21.0	16.6	4.4	4.4	4.4
85°	11.1	9.9	8.8	8.8	9.9	8.8	6.6	2.2	1.1	1.1
87.5°	5.5	5.5	4.4	3.3	4.4	4.4	3.3	1.1	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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