

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: P639200

Luminaire Tested: GWS-SA5B-735-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639200
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-SA5B-735-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10868.2 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

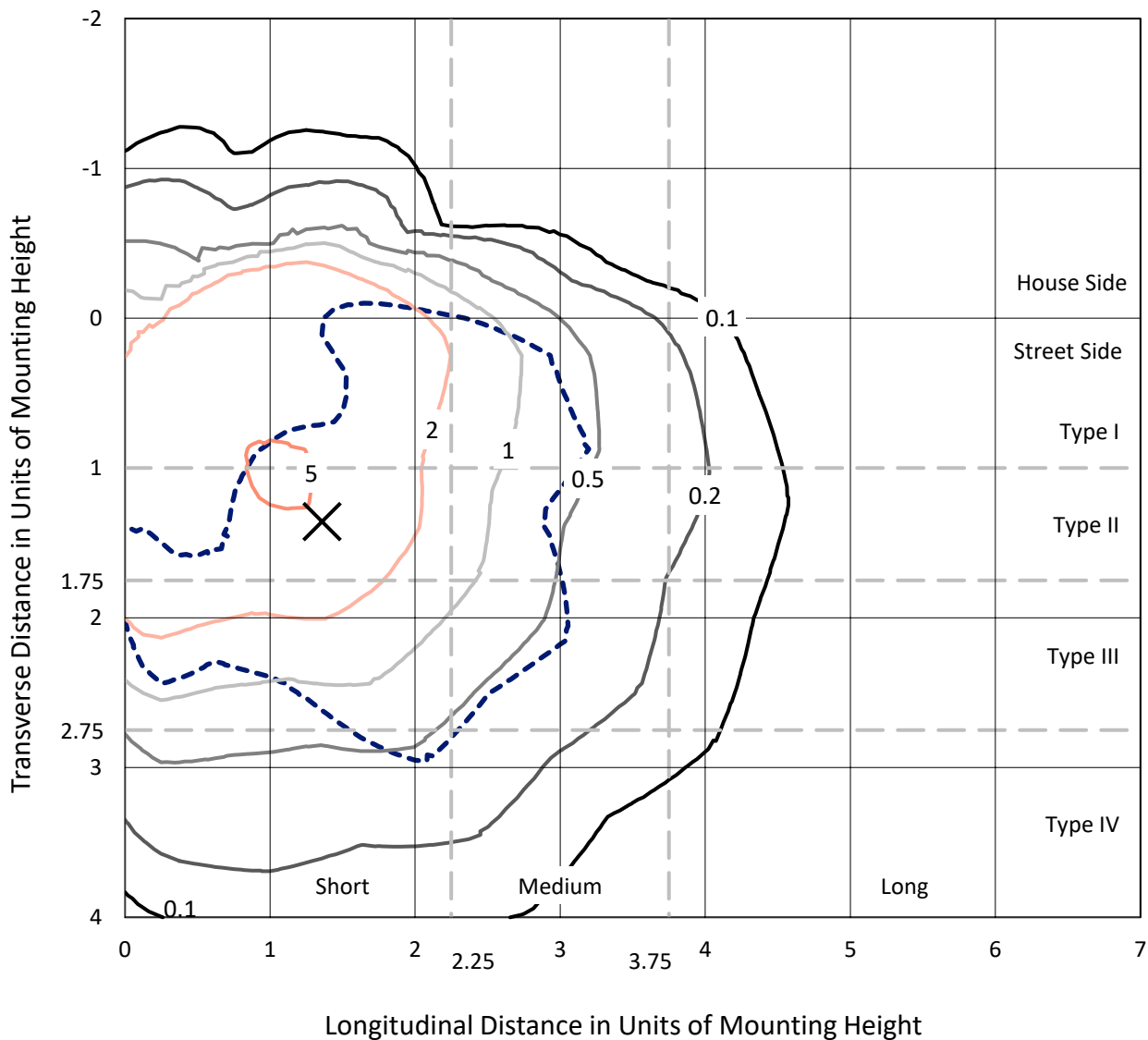
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

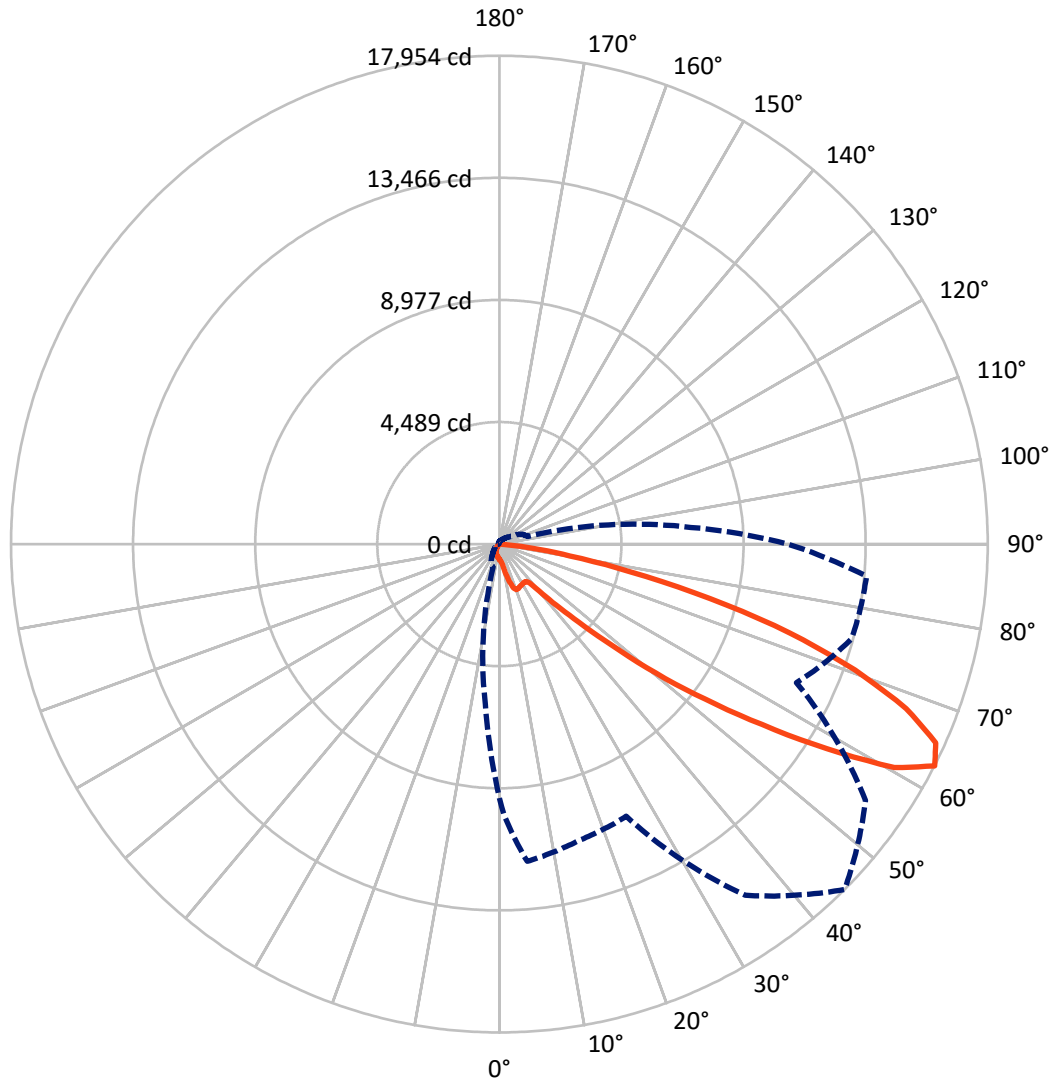
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 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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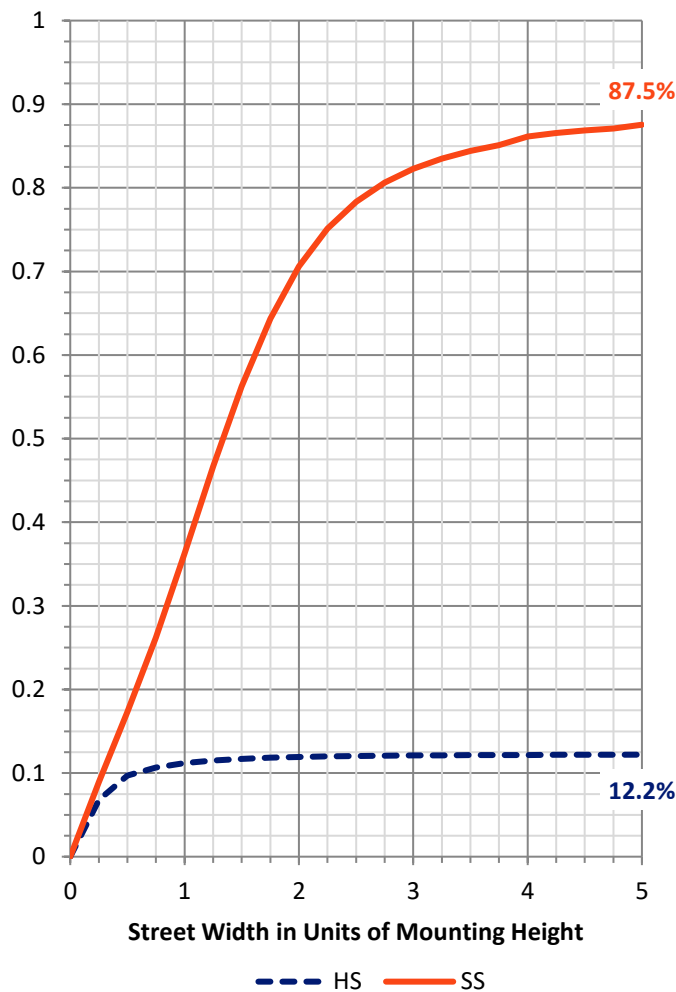
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1341.1	0.0	1341.1
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	9527.1	0.0	9527.1
	% Fixture	87.7	0.0	87.7
Total	Lumens	10868.2	0.0	10868.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	0.5
10°-20°	189.5	1.7
20°-30°	411.9	3.8
30°-40°	676.1	6.2
40°-50°	1242.9	11.4
50°-60°	2669.1	24.6
60°-70°	3585.0	33.0
70°-80°	1866.7	17.2
80°-90°	177.0	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°	10868.2	100.0
0°-180°	10868.2	100.0

Coefficient of Utilization



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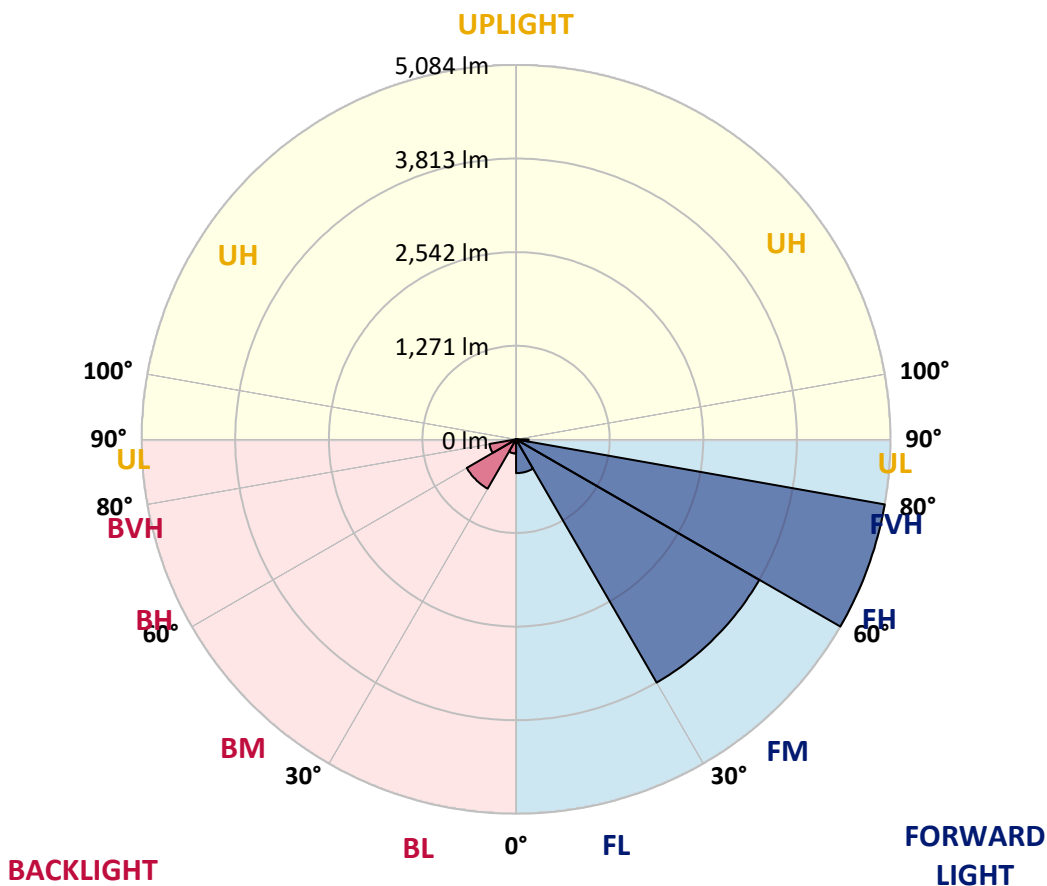
CATALOG NUMBER: GWS-SA5B-735-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	459.1	4.2			
FM (30°-60°)	3814.6	35.1			
FH (60°-80°)	5084.2	46.8			G3/7500
FVH (80°-90°)	169.1	1.6			G2/225
BL (0°-30°)	192.4	1.8	B1/500		
BM (30°-60°)	773.4	7.1	B1/1000		
BH (60°-80°)	367.5	3.4	B1/500		G1/500
BVH (80°-90°)	7.9	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	564.9	564.9	564.9	564.9	564.9	564.9	564.9	564.9	564.9	564.9	564.9
2.5°	576.2	578.7	581.2	590.0	596.3	601.3	602.6	598.8	590.0	581.2	568.7
5°	558.6	561.2	569.9	593.8	617.6	636.5	642.8	639.0	617.6	590.0	561.2
7.5°	557.4	562.4	583.7	634.0	685.4	724.4	734.4	725.6	685.4	630.2	571.2
10°	602.6	611.4	642.8	733.1	827.3	896.3	924.0	886.3	822.3	721.8	625.2
12.5°	720.6	735.6	795.9	927.7	1073.3	1165.0	1202.6	1156.2	1055.8	910.1	757.0
15°	906.4	929.0	1019.4	1216.5	1388.4	1470.0	1482.6	1456.2	1339.5	1178.8	972.9
17.5°	1168.8	1201.4	1342.0	1542.9	1667.1	1696.0	1692.2	1664.6	1579.3	1468.8	1274.2
20°	1482.6	1521.5	1659.6	1825.3	1837.9	1804.0	1785.1	1768.8	1740.0	1721.1	1569.2
22.5°	1799.0	1846.7	1991.0	2032.5	1919.5	1821.5	1775.1	1787.7	1830.3	1923.2	1861.7
25°	2114.1	2159.2	2294.8	2183.1	1957.1	1793.9	1734.9	1765.1	1866.7	2067.6	2146.7
27.5°	2481.9	2515.8	2596.1	2286.0	1963.4	1771.3	1713.6	1760.0	1884.3	2158.0	2459.3
30°	2864.8	2884.9	2845.9	2313.7	1942.1	1737.4	1692.2	1760.0	1914.4	2218.2	2694.0
32.5°	3146.0	3149.7	3022.9	2316.2	1930.8	1709.8	1672.2	1752.5	1943.3	2268.5	2921.3
35°	3436.0	3417.1	3192.4	2353.8	1960.9	1719.9	1687.2	1773.8	1988.5	2327.5	3120.9
37.5°	3729.7	3695.8	3382.0	2415.3	2038.7	1829.1	1809.0	1883.1	2061.3	2409.1	3340.6
40°	4031.0	3984.6	3579.1	2508.2	2212.0	2200.7	2269.7	2260.9	2260.9	2513.3	3566.5
42.5°	4398.8	4344.9	3870.3	2770.6	2616.2	2868.5	3056.8	2940.1	2724.2	2753.0	3860.3
45°	4884.7	4838.2	4375.0	3272.8	3250.2	3830.2	4083.7	3852.7	3315.4	3306.7	4351.1
47.5°	5661.7	5653.0	5179.7	3855.3	4026.0	5054.1	5543.7	5099.3	3989.6	3892.9	5280.1
50°	6753.9	6727.6	6182.7	4538.2	4948.7	6570.6	7444.4	6703.7	4804.3	4577.1	6524.2
52.5°	7984.2	8011.8	7587.5	5283.9	5929.1	8257.9	9474.3	8541.6	5689.4	5447.1	8089.6
55°	9142.9	9301.1	9189.3	6156.4	6887.0	10120.8	11703.9	10557.7	6785.3	6585.7	9844.7
57.5°	10049.3	10494.9	11278.3	7424.3	8013.1	12300.2	14193.3	12743.3	8064.5	8434.9	12233.6
60°	10099.5	10689.5	12508.6	10076.9	9461.8	14169.4	16678.9	14878.7	10075.6	11574.6	14105.4
62.5°	9342.5	9975.2	11707.6	11282.1	11039.8	15760.0	17954.4	16435.4	12054.1	13413.7	13550.5
65°	8476.3	9115.3	10813.8	9915.0	10856.5	15692.2	17630.5	16471.8	12233.6	12163.3	12557.5
67.5°	7166.9	7740.6	9278.5	8776.3	10006.6	14935.2	16134.1	15433.6	11270.8	11376.2	11552.0
70°	5231.1	5783.5	7210.9	7236.0	8738.7	13570.6	13863.1	13766.4	10379.4	10491.2	9989.0
72.5°	3778.7	4244.4	5475.9	5934.2	6976.1	11380.0	11177.9	11550.7	8905.6	9343.8	8023.1
75°	2716.6	3065.6	4017.2	5162.1	5529.9	8451.2	8001.8	8945.8	7145.6	8045.7	6032.1
77.5°	1102.2	1225.2	1580.5	3477.4	3634.3	5685.6	4898.5	6497.8	5094.3	5286.4	2923.8
80°	45.2	50.2	65.3	1795.2	2491.9	3198.7	2621.2	3473.6	3364.4	2129.1	690.5
82.5°	5.0	5.0	11.3	517.2	1090.9	1765.1	1235.3	2001.1	1703.5	902.6	313.8
85°	1.3	1.3	2.5	59.0	256.1	282.5	167.0	613.9	792.1	369.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	11.3	12.6	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°	564.9	564.9	564.9	564.9	564.9	564.9	564.9	564.9	564.9	564.9	564.9
2.5°	568.7	562.4	554.9	547.3	543.6	533.5	529.8	527.3	524.7	526.0	526.0
5°	549.9	536.0	519.7	503.4	494.6	484.6	479.6	477.0	478.3	483.3	483.3
7.5°	547.3	521.0	485.8	464.5	454.4	446.9	441.9	439.4	440.6	446.9	449.4
10°	588.8	542.3	479.6	443.1	431.8	424.3	419.3	415.5	413.0	418.0	419.3
12.5°	677.9	613.9	509.7	440.6	420.6	410.5	406.7	399.2	395.4	398.0	399.2
15°	862.4	752.0	569.9	450.7	410.5	399.2	392.9	386.7	380.4	379.1	380.4
17.5°	1103.5	945.3	661.6	474.5	403.0	389.2	380.4	371.6	362.8	361.5	360.3
20°	1402.3	1182.6	789.6	512.2	396.7	380.4	367.8	355.3	344.0	340.2	340.2
22.5°	1674.7	1468.8	954.1	558.6	387.9	367.8	352.8	337.7	325.1	318.9	317.6
25°	2007.3	1772.6	1151.2	612.6	375.4	351.5	335.2	320.1	307.6	300.0	297.5
27.5°	2342.5	2092.7	1374.6	682.9	360.3	335.2	320.1	306.3	292.5	283.7	281.2
30°	2667.7	2437.9	1625.7	770.8	349.0	318.9	306.3	292.5	279.9	266.1	262.4
32.5°	3016.7	2790.7	1906.9	868.7	340.2	307.6	293.8	281.2	264.9	252.3	246.1
35°	3353.1	3154.8	2217.0	964.1	331.4	297.5	282.5	269.9	252.3	238.5	229.7
37.5°	3692.1	3525.1	2540.9	1021.9	318.9	283.7	269.9	259.9	239.8	223.5	213.4
40°	4051.1	3908.0	2891.1	998.0	307.6	268.7	261.1	249.8	227.2	208.4	195.8
42.5°	4445.3	4273.3	3247.7	906.4	297.5	256.1	248.6	237.3	215.9	193.3	177.0
45°	4941.2	4673.8	3540.2	768.3	302.5	243.5	228.5	226.0	205.9	177.0	156.9
47.5°	5793.6	5288.9	3767.4	679.2	336.4	229.7	212.2	218.4	197.1	160.7	138.1
50°	7097.9	6308.3	3979.5	672.9	387.9	223.5	197.1	213.4	188.3	144.4	121.8
52.5°	8340.7	7343.9	4115.1	728.1	433.1	239.8	182.0	207.1	182.0	133.1	110.5
55°	9529.6	7941.5	3872.8	768.3	475.8	288.7	170.7	197.1	174.5	126.8	106.7
57.5°	10811.3	8207.6	3049.3	849.9	505.9	330.2	173.2	182.0	164.5	123.0	105.5
60°	11194.2	7867.4	1840.4	956.6	489.6	342.7	192.1	161.9	150.6	115.5	101.7
62.5°	10599.1	7060.2	1085.9	871.2	475.8	323.9	219.7	149.4	136.8	105.5	94.2
65°	9709.1	5964.3	708.0	735.6	504.7	288.7	233.5	143.1	124.3	95.4	82.9
67.5°	8692.2	4804.3	495.9	434.4	465.7	259.9	197.1	141.9	111.7	80.3	67.8
70°	7321.3	3597.9	349.0	287.5	387.9	231.0	153.2	138.1	97.9	65.3	52.7
72.5°	5656.7	2252.1	259.9	185.8	276.2	188.3	121.8	116.7	79.1	54.0	40.2
75°	4171.6	1284.2	183.3	134.3	182.0	143.1	90.4	82.9	67.8	51.5	36.4
77.5°	2178.1	642.8	114.2	102.9	104.2	89.1	65.3	60.3	62.8	51.5	33.9
80°	418.0	128.0	69.0	75.3	56.5	56.5	47.7	50.2	55.2	41.4	28.9
82.5°	174.5	27.6	37.7	42.7	35.2	38.9	38.9	40.2	38.9	30.1	21.3
85°	0.0	0.0	16.3	17.6	23.9	23.9	20.1	20.1	20.1	17.6	12.6
87.5°	0.0	0.0	0.0	0.0	1.3	3.8	7.5	8.8	10.0	7.5	5.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	564.9	564.9	564.9	564.9	564.9	564.9	564.9	564.9	564.9	564.9	564.9
2.5°	524.7	522.2	526.0	528.5	531.0	531.0	528.5	526.0	522.2	526.0	522.2
5°	484.6	488.3	494.6	497.1	499.6	494.6	492.1	484.6	478.3	479.6	477.0
7.5°	453.2	457.0	464.5	469.5	469.5	467.0	459.5	451.9	441.9	441.9	440.6
10°	424.3	429.3	438.1	444.4	446.9	444.4	436.9	426.8	418.0	418.0	414.3
12.5°	400.5	406.7	416.8	425.6	428.1	425.6	418.0	408.0	398.0	398.0	395.4
15°	380.4	387.9	399.2	409.3	413.0	409.3	400.5	387.9	377.9	379.1	375.4
17.5°	361.5	367.8	382.9	394.2	398.0	394.2	382.9	366.6	356.5	359.0	356.5
20°	340.2	347.7	362.8	375.4	379.1	375.4	362.8	345.2	335.2	335.2	336.4
22.5°	317.6	325.1	340.2	349.0	354.0	350.2	337.7	321.4	311.3	311.3	312.6
25°	297.5	301.3	312.6	321.4	322.6	318.9	308.8	296.3	288.7	292.5	293.8
27.5°	278.7	278.7	283.7	288.7	287.5	283.7	279.9	269.9	268.7	272.4	276.2
30°	258.6	252.3	249.8	246.1	244.8	243.5	247.3	247.3	249.8	254.8	258.6
32.5°	241.0	228.5	217.2	205.9	199.6	204.6	214.7	223.5	232.2	239.8	243.5
35°	220.9	200.9	182.0	167.0	156.9	164.5	180.8	197.1	212.2	222.2	228.5
37.5°	200.9	172.0	149.4	130.6	123.0	129.3	146.9	169.5	192.1	204.6	213.4
40°	179.5	143.1	116.7	101.7	94.2	100.4	118.0	140.6	170.7	187.1	198.3
42.5°	158.2	118.0	94.2	79.1	75.3	79.1	92.9	115.5	148.1	168.2	183.3
45°	136.8	97.9	75.3	64.0	60.3	64.0	75.3	94.2	126.8	149.4	167.0
47.5°	118.0	82.9	62.8	52.7	50.2	54.0	62.8	79.1	106.7	129.3	149.4
50°	102.9	72.8	54.0	45.2	42.7	46.4	54.0	66.5	90.4	110.5	131.8
52.5°	92.9	67.8	47.7	38.9	37.7	40.2	46.4	56.5	76.6	94.2	114.2
55°	90.4	67.8	43.9	35.2	33.9	36.4	41.4	49.0	66.5	81.6	99.2
57.5°	92.9	72.8	41.4	30.1	28.9	31.4	36.4	42.7	57.7	70.3	86.6
60°	92.9	74.1	36.4	23.9	22.6	25.1	30.1	37.7	51.5	61.5	75.3
62.5°	84.1	67.8	30.1	18.8	16.3	18.8	25.1	31.4	45.2	55.2	66.5
65°	72.8	57.7	25.1	13.8	11.3	13.8	20.1	26.4	38.9	47.7	60.3
67.5°	59.0	43.9	18.8	10.0	7.5	10.0	15.1	21.3	32.6	41.4	54.0
70°	43.9	31.4	15.1	8.8	7.5	8.8	13.8	20.1	28.9	37.7	50.2
72.5°	32.6	21.3	12.6	8.8	6.3	8.8	12.6	18.8	27.6	36.4	47.7
75°	27.6	17.6	11.3	7.5	6.3	7.5	11.3	17.6	25.1	33.9	45.2
77.5°	26.4	16.3	10.0	6.3	5.0	6.3	10.0	15.1	22.6	31.4	43.9
80°	22.6	13.8	8.8	5.0	3.8	5.0	8.8	12.6	17.6	23.9	33.9
82.5°	17.6	11.3	6.3	2.5	1.3	2.5	6.3	7.5	11.3	13.8	20.1
85°	11.3	6.3	2.5	0.0	0.0	0.0	2.5	5.0	5.0	6.3	10.0
87.5°	5.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.5	3.8
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	564.9	564.9	564.9	564.9	564.9	564.9	564.9	564.9	564.9	564.9
2.5°	529.8	531.0	533.5	537.3	546.1	553.6	561.2	571.2	576.2	576.2
5°	479.6	480.8	482.1	487.1	499.6	509.7	526.0	546.1	556.1	558.6
7.5°	440.6	443.1	445.7	449.4	462.0	475.8	497.1	534.8	553.6	557.4
10°	418.0	421.8	426.8	434.4	445.7	460.7	497.1	564.9	596.3	602.6
12.5°	400.5	406.7	411.8	420.6	434.4	458.2	531.0	650.3	705.5	720.6
15°	382.9	390.4	398.0	406.7	421.8	467.0	596.3	803.4	895.1	906.4
17.5°	365.3	374.1	384.1	394.2	413.0	488.3	699.2	1015.6	1143.6	1168.8
20°	345.2	356.5	370.3	382.9	404.2	522.2	842.4	1267.9	1428.6	1482.6
22.5°	323.9	337.7	354.0	370.3	394.2	563.7	1015.6	1539.1	1763.8	1799.0
25°	306.3	320.1	335.2	351.5	377.9	613.9	1225.2	1875.5	2080.2	2114.1
27.5°	290.0	303.8	317.6	332.7	361.5	679.2	1477.6	2233.3	2446.7	2481.9
30°	272.4	288.7	302.5	317.6	346.5	759.5	1768.8	2630.0	2832.1	2864.8
32.5°	257.4	273.7	287.5	302.5	335.2	847.4	2075.1	2981.5	3146.0	3146.0
35°	244.8	262.4	272.4	292.5	326.4	903.9	2365.1	3316.7	3441.0	3436.0
37.5°	231.0	252.3	259.9	273.7	315.1	910.1	2637.5	3670.7	3762.4	3729.7
40°	217.2	239.8	251.1	258.6	302.5	858.7	2936.3	3995.9	4073.7	4031.0
42.5°	204.6	222.2	238.5	247.3	295.0	768.3	3176.1	4343.6	4436.5	4398.8
45°	192.1	207.1	217.2	233.5	300.0	705.5	3382.0	4749.1	4912.3	4884.7
47.5°	179.5	192.1	198.3	223.5	333.9	676.6	3507.5	5376.8	5684.3	5661.7
50°	165.7	180.8	180.8	220.9	384.1	686.7	3616.7	6285.7	6761.5	6753.9
52.5°	151.9	168.2	165.7	239.8	423.1	733.1	3741.0	7087.8	7915.1	7984.2
55°	138.1	153.2	155.7	277.4	445.7	773.3	3260.2	7425.5	8900.6	9142.9
57.5°	123.0	131.8	161.9	306.3	438.1	890.1	2233.3	7487.1	9529.6	10049.3
60°	106.7	114.2	183.3	300.0	414.3	822.3	1406.0	6934.7	9440.4	10099.5
62.5°	92.9	105.5	193.3	264.9	421.8	713.1	896.3	5910.3	8590.5	9342.5
65°	81.6	101.7	175.8	239.8	426.8	483.3	605.1	4808.1	7760.7	8476.3
67.5°	72.8	113.0	144.4	213.4	366.6	340.2	415.5	3736.0	6525.4	7166.9
70°	66.5	115.5	118.0	183.3	283.7	218.4	273.7	2514.5	4498.0	5231.1
72.5°	60.3	85.4	89.1	146.9	183.3	133.1	177.0	1438.7	3279.0	3778.7
75°	57.7	57.7	61.5	95.4	101.7	96.7	114.2	858.7	2351.3	2716.6
77.5°	54.0	43.9	38.9	61.5	55.2	69.0	67.8	381.6	1019.4	1102.2
80°	42.7	31.4	26.4	38.9	37.7	46.4	40.2	31.4	46.4	45.2
82.5°	26.4	20.1	18.8	23.9	21.3	23.9	18.8	5.0	5.0	5.0
85°	12.6	11.3	10.0	10.0	11.3	10.0	7.5	2.5	1.3	1.3
87.5°	6.3	6.3	5.0	3.8	5.0	5.0	3.8	1.3	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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