

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: P639695

Luminaire Tested: GWS-SA5C-735-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639695
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-SA5C-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: 14575.4 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

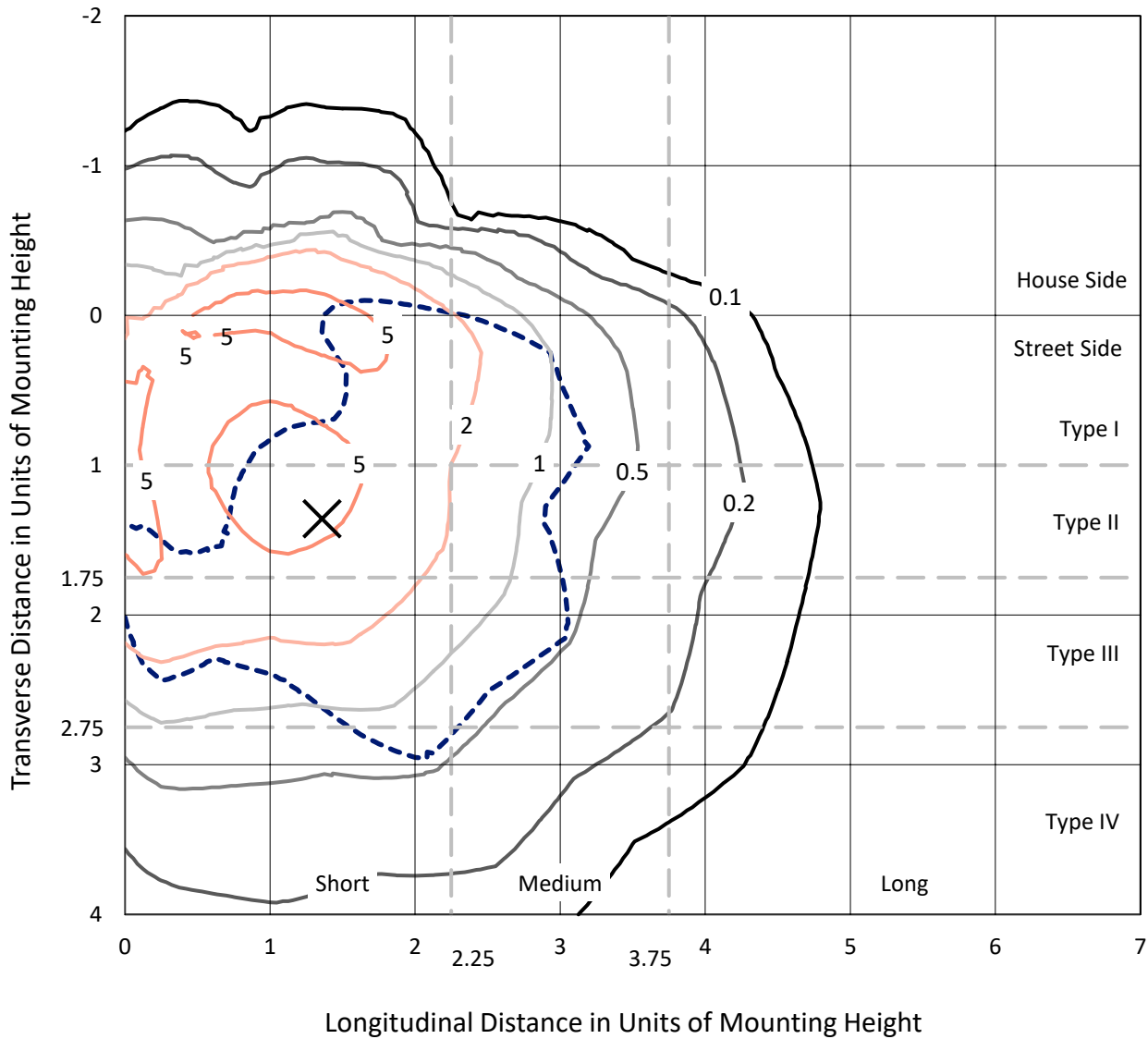
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

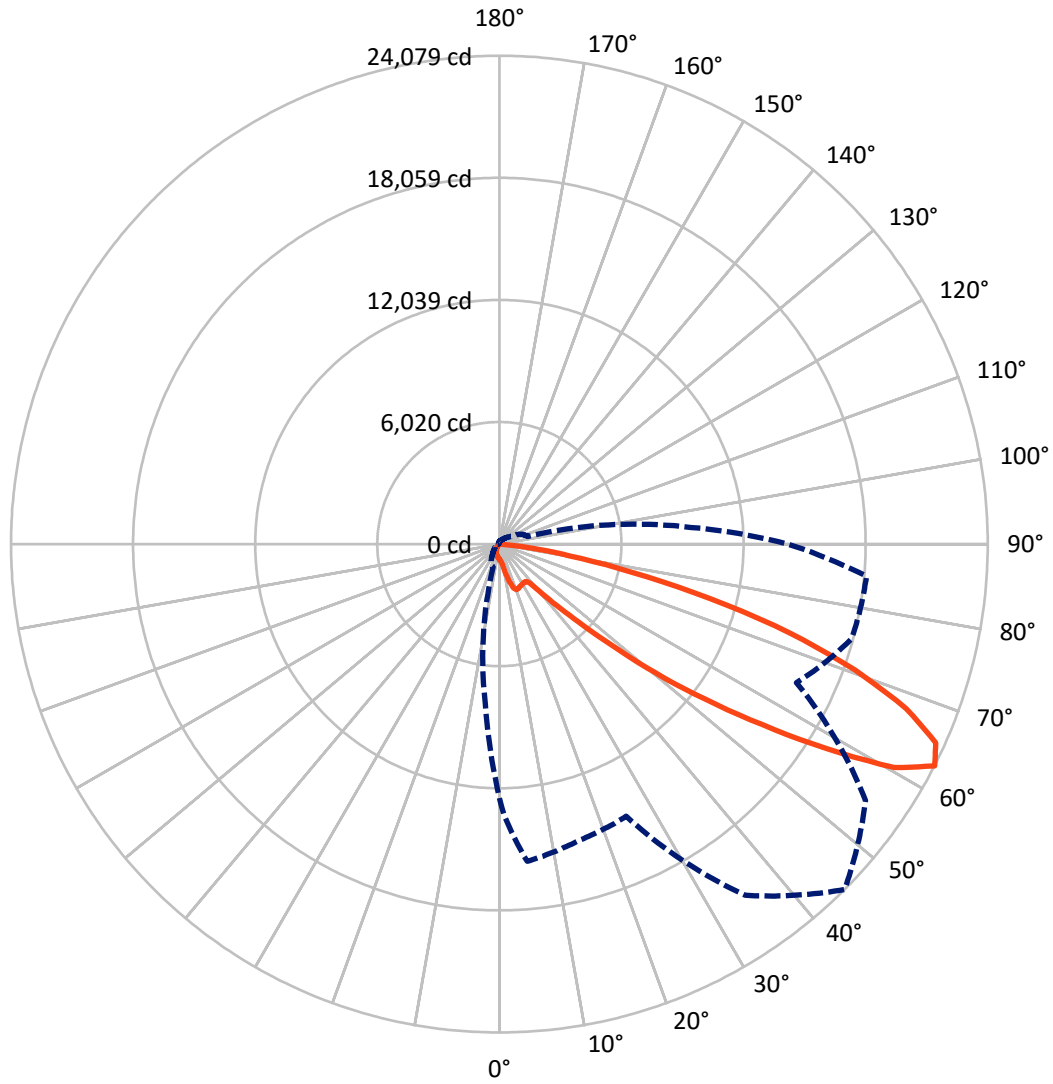
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.4 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	1798.6	0.0	1798.6
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	12776.8	0.0	12776.8
	% Fixture	87.7	0.0	87.7
Total	Lumens	14575.4	0.0	14575.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	0.5
10°-20°	254.1	1.7
20°-30°	552.4	3.8
30°-40°	906.7	6.2
40°-50°	1666.8	11.4
50°-60°	3579.5	24.6
60°-70°	4807.8	33.0
70°-80°	2503.5	17.2
80°-90°	237.4	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°	14575.4	100.0
0°-180°	14575.4	100.0

Coefficient of Utilization



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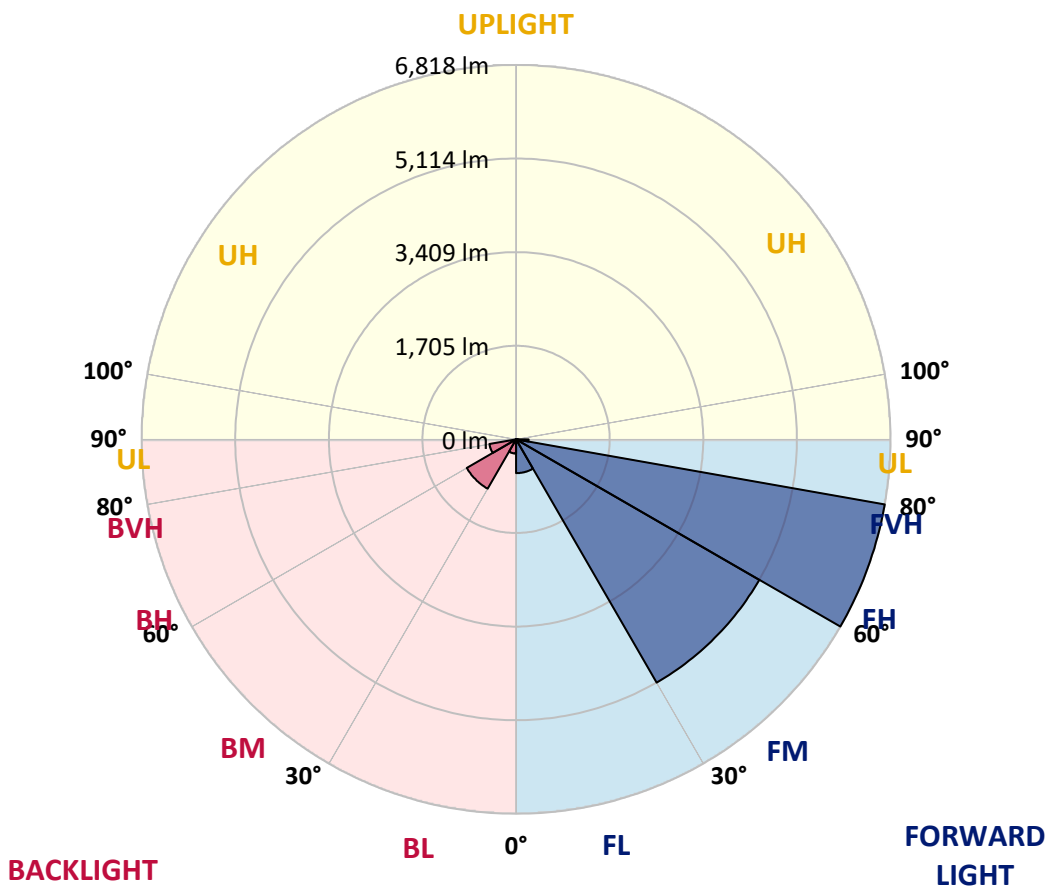
CATALOG NUMBER: GWS-SA5C-735-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	615.7	4.2			
FM (30°-60°)	5115.8	35.1			
FH (60°-80°)	6818.5	46.8			G3/7500
FVH (80°-90°)	226.8	1.6			G3/500
BL (0°-30°)	258.0	1.8	B1/500		
BM (30°-60°)	1037.2	7.1	B2/2500		
BH (60°-80°)	492.8	3.4	B1/500		G1/500
BVH (80°-90°)	10.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6
2.5°	772.8	776.1	779.5	791.3	799.7	806.4	808.1	803.1	791.3	779.5	762.7
5°	749.2	752.6	764.4	796.3	828.3	853.6	862.0	856.9	828.3	791.3	752.6
7.5°	747.5	754.2	782.9	850.2	919.2	971.4	984.9	973.1	919.2	845.2	766.0
10°	808.1	819.9	862.0	983.2	1109.5	1202.1	1239.1	1188.6	1102.8	968.1	838.4
12.5°	966.4	986.6	1067.4	1244.2	1439.5	1562.4	1612.9	1550.6	1415.9	1220.6	1015.2
15°	1215.6	1245.9	1367.1	1631.4	1862.1	1971.5	1988.3	1953.0	1796.4	1580.9	1304.8
17.5°	1567.4	1611.2	1799.8	2069.1	2235.8	2274.5	2269.5	2232.4	2118.0	1969.8	1708.8
20°	1988.3	2040.5	2225.7	2447.9	2464.8	2419.3	2394.1	2372.2	2333.5	2308.2	2104.5
22.5°	2412.6	2476.6	2670.2	2725.7	2574.2	2442.9	2380.6	2397.4	2454.7	2579.3	2496.8
25°	2835.2	2895.8	3077.6	2927.8	2624.7	2405.9	2326.7	2367.1	2503.5	2772.9	2878.9
27.5°	3328.5	3373.9	3481.7	3065.8	2633.1	2375.5	2298.1	2360.4	2527.1	2894.1	3298.2
30°	3842.0	3868.9	3816.7	3102.9	2604.5	2330.1	2269.5	2360.4	2567.5	2974.9	3613.0
32.5°	4219.1	4224.1	4054.1	3106.2	2589.4	2293.1	2242.5	2350.3	2606.2	3042.2	3917.7
35°	4608.0	4582.7	4281.4	3156.7	2629.8	2306.5	2262.7	2378.9	2666.8	3121.4	4185.4
37.5°	5001.9	4956.5	4535.6	3239.2	2734.2	2453.0	2426.1	2525.4	2764.5	3230.8	4480.0
40°	5406.0	5343.7	4799.9	3363.8	2966.5	2951.3	3043.9	3032.1	3032.1	3370.5	4783.1
42.5°	5899.3	5826.9	5190.5	3715.7	3508.6	3847.0	4099.5	3943.0	3653.4	3692.1	5177.0
45°	6550.9	6488.6	5867.3	4389.1	4358.8	5136.6	5476.7	5166.9	4446.4	4434.6	5835.3
47.5°	7593.0	7581.2	6946.5	5170.3	5399.3	6778.1	7434.7	6838.7	5350.5	5220.8	7081.2
50°	9057.7	9022.4	8291.7	6086.2	6636.7	8811.9	9983.7	8990.4	6443.1	6138.4	8749.6
52.5°	10707.6	10744.7	10175.6	7086.2	7951.6	11074.7	12706.1	11455.1	7630.0	7305.1	10849.1
55°	12261.6	12473.7	12323.9	8256.3	9236.2	13573.1	15696.1	14159.0	9099.8	8832.1	13202.7
57.5°	13477.1	14074.8	15125.4	9956.8	10746.4	16495.8	19034.7	17090.1	10815.4	11312.0	16406.6
60°	13544.5	14335.8	16775.3	13514.2	12689.2	19002.7	22368.2	19953.9	13512.5	15522.7	18916.8
62.5°	12529.3	13377.8	15701.2	15130.4	14805.5	21135.8	24078.7	22041.6	16165.8	17989.2	18172.7
65°	11367.6	12224.6	14502.4	13297.0	14559.7	21044.9	23644.3	22090.4	16406.6	16312.3	16841.0
67.5°	9611.6	10381.0	12443.4	11770.0	13419.9	20029.7	21637.5	20698.1	15115.3	15256.7	15492.4
70°	7015.5	7756.3	9670.5	9704.2	11719.5	18199.6	18591.9	18462.3	13919.9	14069.8	13396.3
72.5°	5067.6	5692.2	7343.8	7958.3	9355.7	15261.7	14990.7	15490.7	11943.4	12531.0	10759.8
75°	3643.3	4111.3	5387.5	6922.9	7416.2	11333.9	10731.2	11997.3	9583.0	10790.1	8089.7
77.5°	1478.2	1643.2	2119.6	4663.5	4874.0	7625.0	6569.4	8714.3	6832.0	7089.6	3921.1
80°	60.6	67.3	87.5	2407.5	3341.9	4289.8	3515.3	4658.5	4512.0	2855.4	926.0
82.5°	6.7	6.7	15.2	693.6	1463.0	2367.1	1656.7	2683.6	2284.6	1210.5	420.9
85°	1.7	1.7	3.4	79.1	343.5	378.8	223.9	823.3	1062.3	495.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	15.2	16.8	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°	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6
2.5°	762.7	754.2	744.1	734.0	729.0	715.5	710.5	707.1	703.7	705.4	705.4
5°	737.4	718.9	697.0	675.1	663.3	649.9	643.1	639.8	641.4	648.2	648.2
7.5°	734.0	698.7	651.5	622.9	609.5	599.4	592.6	589.3	590.9	599.4	602.7
10°	789.6	727.3	643.1	594.3	579.2	569.1	562.3	557.3	553.9	560.6	562.3
12.5°	909.1	823.3	683.5	590.9	564.0	550.5	545.5	535.4	530.3	533.7	535.4
15°	1156.6	1008.5	764.4	604.4	550.5	535.4	527.0	518.5	510.1	508.4	510.1
17.5°	1479.9	1267.7	887.3	636.4	540.4	521.9	510.1	498.3	486.6	484.9	483.2
20°	1880.6	1585.9	1059.0	686.9	532.0	510.1	493.3	476.5	461.3	456.3	456.3
22.5°	2245.9	1969.8	1279.5	749.2	520.2	493.3	473.1	452.9	436.0	427.6	425.9
25°	2692.1	2377.2	1543.9	821.6	503.4	471.4	449.5	429.3	412.5	402.4	399.0
27.5°	3141.6	2806.5	1843.5	915.9	483.2	449.5	429.3	410.8	392.3	380.5	377.1
30°	3577.6	3269.5	2180.2	1033.7	468.0	427.6	410.8	392.3	375.4	356.9	351.9
32.5°	4045.7	3742.6	2557.4	1165.0	456.3	412.5	394.0	377.1	355.2	338.4	330.0
35°	4496.9	4230.9	2973.2	1293.0	444.5	399.0	378.8	362.0	338.4	319.9	308.1
37.5°	4951.4	4727.5	3407.6	1370.4	427.6	380.5	362.0	348.5	321.6	299.7	286.2
40°	5432.9	5241.0	3877.3	1338.5	412.5	360.3	350.2	335.0	304.7	279.5	262.6
42.5°	5961.6	5730.9	4355.4	1215.6	399.0	343.5	333.4	318.2	289.6	259.3	237.4
45°	6626.6	6268.0	4747.7	1030.4	405.7	326.6	306.4	303.0	276.1	237.4	210.4
47.5°	7769.8	7093.0	5052.5	910.8	451.2	308.1	284.5	292.9	264.3	215.5	185.2
50°	9519.0	8460.0	5337.0	902.4	520.2	299.7	264.3	286.2	252.5	193.6	163.3
52.5°	11185.8	9849.0	5518.8	976.5	580.8	321.6	244.1	277.8	244.1	178.5	148.2
55°	12780.1	10650.4	5193.9	1030.4	638.1	387.2	229.0	264.3	234.0	170.0	143.1
57.5°	14499.1	11007.3	4089.4	1139.8	678.5	442.8	232.3	244.1	220.6	165.0	141.4
60°	15012.6	10551.1	2468.1	1282.9	656.6	459.6	257.6	217.2	202.0	154.9	136.4
62.5°	14214.6	9468.5	1456.3	1168.4	638.1	434.4	294.6	200.3	183.5	141.4	126.3
65°	13020.9	7998.7	949.5	986.6	676.8	387.2	313.1	191.9	166.7	128.0	111.1
67.5°	11657.2	6443.1	665.0	582.5	624.6	348.5	264.3	190.2	149.8	107.7	90.9
70°	9818.7	4825.2	468.0	385.5	520.2	309.8	205.4	185.2	131.3	87.5	70.7
72.5°	7586.3	3020.4	348.5	249.2	370.4	252.5	163.3	156.6	106.1	72.4	53.9
75°	5594.6	1722.3	245.8	180.1	244.1	191.9	121.2	111.1	90.9	69.0	48.8
77.5°	2921.0	862.0	153.2	138.1	139.7	119.5	87.5	80.8	84.2	69.0	45.5
80°	560.6	171.7	92.6	101.0	75.8	75.8	64.0	67.3	74.1	55.6	38.7
82.5°	234.0	37.0	50.5	57.2	47.1	52.2	52.2	53.9	52.2	40.4	28.6
85°	0.0	0.0	21.9	23.6	32.0	32.0	26.9	26.9	26.9	23.6	16.8
87.5°	0.0	0.0	0.0	0.0	1.7	5.1	10.1	11.8	13.5	10.1	6.7
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°	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6
2.5°	703.7	700.4	705.4	708.8	712.2	712.2	708.8	705.4	700.4	705.4	700.4
5°	649.9	654.9	663.3	666.7	670.1	663.3	660.0	649.9	641.4	643.1	639.8
7.5°	607.8	612.8	622.9	629.7	629.7	626.3	616.2	606.1	592.6	592.6	590.9
10°	569.1	575.8	587.6	596.0	599.4	596.0	585.9	572.4	560.6	560.6	555.6
12.5°	537.1	545.5	559.0	570.7	574.1	570.7	560.6	547.2	533.7	533.7	530.3
15°	510.1	520.2	535.4	548.9	553.9	548.9	537.1	520.2	506.8	508.4	503.4
17.5°	484.9	493.3	513.5	528.6	533.7	528.6	513.5	491.6	478.1	481.5	478.1
20°	456.3	466.4	486.6	503.4	508.4	503.4	486.6	463.0	449.5	449.5	451.2
22.5°	425.9	436.0	456.3	468.0	474.8	469.7	452.9	431.0	417.5	417.5	419.2
25°	399.0	404.1	419.2	431.0	432.7	427.6	414.2	397.3	387.2	392.3	394.0
27.5°	373.8	373.8	380.5	387.2	385.5	380.5	375.4	362.0	360.3	365.3	370.4
30°	346.8	338.4	335.0	330.0	328.3	326.6	331.7	331.7	335.0	341.8	346.8
32.5°	323.2	306.4	291.3	276.1	267.7	274.4	287.9	299.7	311.5	321.6	326.6
35°	296.3	269.4	244.1	223.9	210.4	220.6	242.4	264.3	284.5	298.0	306.4
37.5°	269.4	230.7	200.3	175.1	165.0	173.4	197.0	227.3	257.6	274.4	286.2
40°	240.8	191.9	156.6	136.4	126.3	134.7	158.3	188.6	229.0	250.9	266.0
42.5°	212.1	158.3	126.3	106.1	101.0	106.1	124.6	154.9	198.7	225.6	245.8
45°	183.5	131.3	101.0	85.9	80.8	85.9	101.0	126.3	170.0	200.3	223.9
47.5°	158.3	111.1	84.2	70.7	67.3	72.4	84.2	106.1	143.1	173.4	200.3
50°	138.1	97.6	72.4	60.6	57.2	62.3	72.4	89.2	121.2	148.2	176.8
52.5°	124.6	90.9	64.0	52.2	50.5	53.9	62.3	75.8	102.7	126.3	153.2
55°	121.2	90.9	58.9	47.1	45.5	48.8	55.6	65.7	89.2	109.4	133.0
57.5°	124.6	97.6	55.6	40.4	38.7	42.1	48.8	57.2	77.4	94.3	116.2
60°	124.6	99.3	48.8	32.0	30.3	33.7	40.4	50.5	69.0	82.5	101.0
62.5°	112.8	90.9	40.4	25.3	21.9	25.3	33.7	42.1	60.6	74.1	89.2
65°	97.6	77.4	33.7	18.5	15.2	18.5	26.9	35.4	52.2	64.0	80.8
67.5°	79.1	58.9	25.3	13.5	10.1	13.5	20.2	28.6	43.8	55.6	72.4
70°	58.9	42.1	20.2	11.8	10.1	11.8	18.5	26.9	38.7	50.5	67.3
72.5°	43.8	28.6	16.8	11.8	8.4	11.8	16.8	25.3	37.0	48.8	64.0
75°	37.0	23.6	15.2	10.1	8.4	10.1	15.2	23.6	33.7	45.5	60.6
77.5°	35.4	21.9	13.5	8.4	6.7	8.4	13.5	20.2	30.3	42.1	58.9
80°	30.3	18.5	11.8	6.7	5.1	6.7	11.8	16.8	23.6	32.0	45.5
82.5°	23.6	15.2	8.4	3.4	1.7	3.4	8.4	10.1	15.2	18.5	26.9
85°	15.2	8.4	3.4	0.0	0.0	0.0	3.4	6.7	6.7	8.4	13.5
87.5°	6.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	1.7	3.4	5.1
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°	359°	360°
0°	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6	757.6
2.5°	710.5	712.2	715.5	720.6	732.4	742.5	752.6	766.0	772.8	772.8
5°	643.1	644.8	646.5	653.2	670.1	683.5	705.4	732.4	745.8	749.2
7.5°	590.9	594.3	597.7	602.7	619.6	638.1	666.7	717.2	742.5	747.5
10°	560.6	565.7	572.4	582.5	597.7	617.9	666.7	757.6	799.7	808.1
12.5°	537.1	545.5	552.2	564.0	582.5	614.5	712.2	872.1	946.2	966.4
15°	513.5	523.6	533.7	545.5	565.7	626.3	799.7	1077.5	1200.4	1215.6
17.5°	489.9	501.7	515.2	528.6	553.9	654.9	937.8	1362.0	1533.8	1567.4
20°	463.0	478.1	496.7	513.5	542.1	700.4	1129.7	1700.4	1915.9	1988.3
22.5°	434.4	452.9	474.8	496.7	528.6	755.9	1362.0	2064.1	2365.4	2412.6
25°	410.8	429.3	449.5	471.4	506.8	823.3	1643.2	2515.3	2789.7	2835.2
27.5°	388.9	407.4	425.9	446.2	484.9	910.8	1981.6	2995.1	3281.3	3328.5
30°	365.3	387.2	405.7	425.9	464.7	1018.6	2372.2	3527.1	3798.2	3842.0
32.5°	345.1	367.0	385.5	405.7	449.5	1136.4	2783.0	3998.5	4219.1	4219.1
35°	328.3	351.9	365.3	392.3	437.7	1212.2	3171.9	4448.0	4614.7	4608.0
37.5°	309.8	338.4	348.5	367.0	422.6	1220.6	3537.2	4922.8	5045.7	5001.9
40°	291.3	321.6	336.7	346.8	405.7	1151.6	3937.9	5358.9	5463.3	5406.0
42.5°	274.4	298.0	319.9	331.7	395.6	1030.4	4259.5	5825.2	5949.8	5899.3
45°	257.6	277.8	291.3	313.1	402.4	946.2	4535.6	6369.0	6587.9	6550.9
47.5°	240.8	257.6	266.0	299.7	447.8	907.5	4704.0	7210.8	7623.3	7593.0
50°	222.2	242.4	242.4	296.3	515.2	920.9	4850.4	8429.7	9067.8	9057.7
52.5°	203.7	225.6	222.2	321.6	567.4	983.2	5017.1	9505.6	10615.0	10707.6
55°	185.2	205.4	208.8	372.1	597.7	1037.1	4372.3	9958.4	11936.7	12261.6
57.5°	165.0	176.8	217.2	410.8	587.6	1193.7	2995.1	10040.9	12780.1	13477.1
60°	143.1	153.2	245.8	402.4	555.6	1102.8	1885.6	9300.2	12660.6	13544.5
62.5°	124.6	141.4	259.3	355.2	565.7	956.3	1202.1	7926.3	11520.8	12529.3
65°	109.4	136.4	235.7	321.6	572.4	648.2	811.5	6448.2	10408.0	11367.6
67.5°	97.6	151.5	193.6	286.2	491.6	456.3	557.3	5010.4	8751.3	9611.6
70°	89.2	154.9	158.3	245.8	380.5	292.9	367.0	3372.2	6032.3	7015.5
72.5°	80.8	114.5	119.5	197.0	245.8	178.5	237.4	1929.4	4397.5	5067.6
75°	77.4	77.4	82.5	128.0	136.4	129.6	153.2	1151.6	3153.4	3643.3
77.5°	72.4	58.9	52.2	82.5	74.1	92.6	90.9	511.8	1367.1	1478.2
80°	57.2	42.1	35.4	52.2	50.5	62.3	53.9	42.1	62.3	60.6
82.5°	35.4	26.9	25.3	32.0	28.6	32.0	25.3	6.7	6.7	6.7
85°	16.8	15.2	13.5	13.5	15.2	13.5	10.1	3.4	1.7	1.7
87.5°	8.4	8.4	6.7	5.1	6.7	6.7	5.1	1.7	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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