

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: P639691

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639691
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-SA5C-735-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14220.1 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

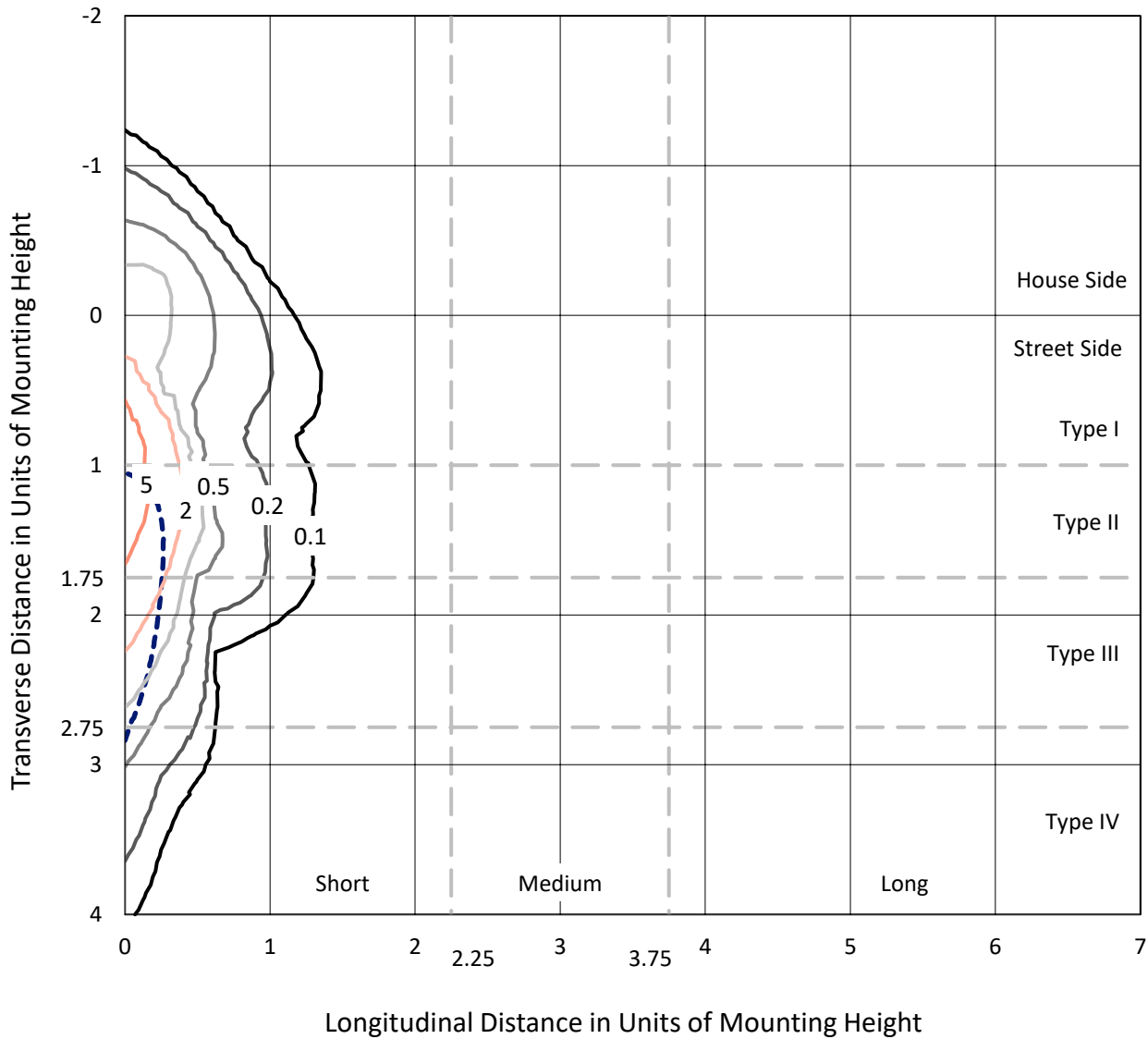
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

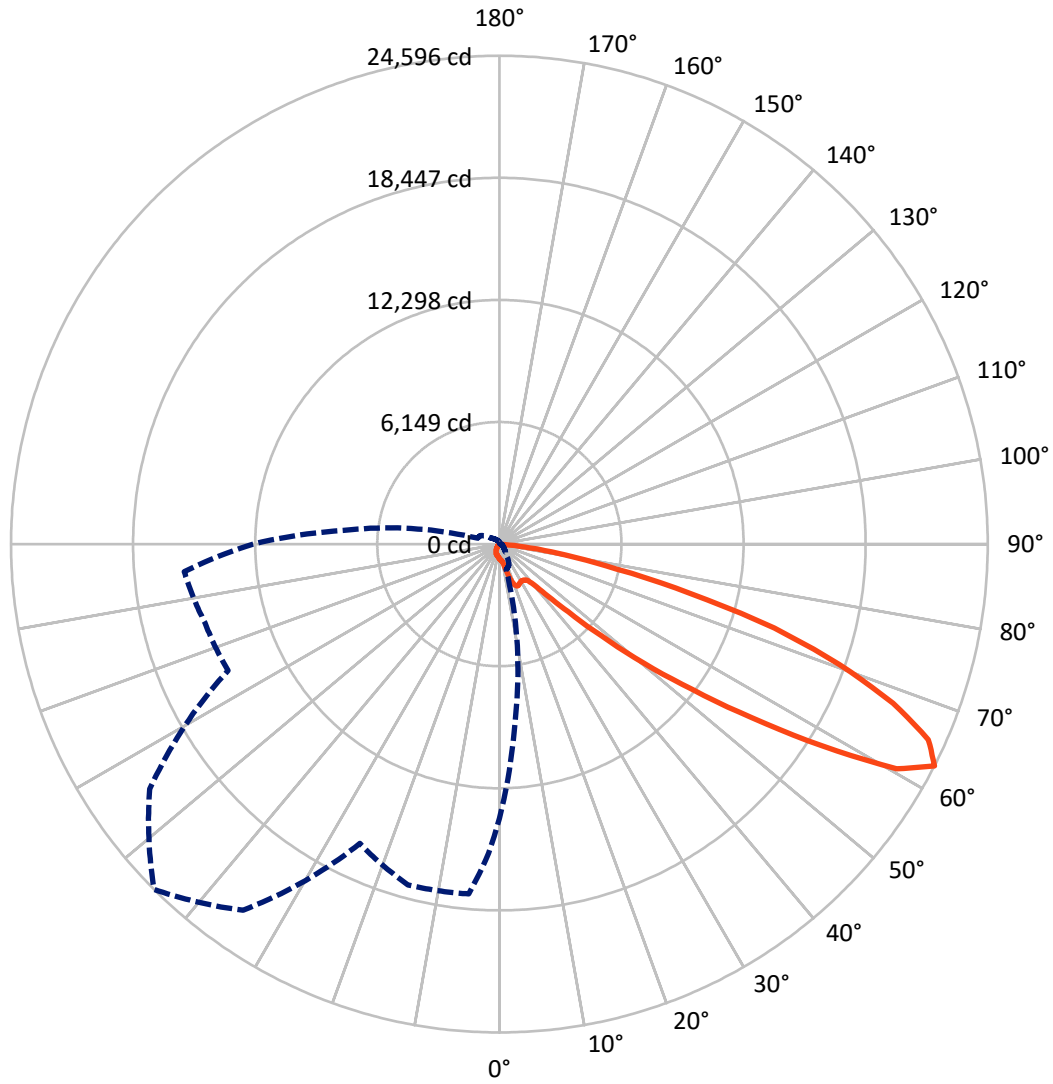
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 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	1652.2	0.0	1652.2
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	12567.9	0.0	12567.9
	% Fixture	88.4	0.0	88.4
Total	Lumens	14220.1	0.0	14220.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.7	0.4
10°-20°	218.3	1.5
20°-30°	493.1	3.5
30°-40°	849.5	6.0
40°-50°	1602.5	11.3
50°-60°	3577.9	25.2
60°-70°	4785.4	33.7
70°-80°	2399.7	16.9
80°-90°	230.0	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°	14220.1	100.0
0°-180°	14220.1	100.0

Coefficient of Utilization



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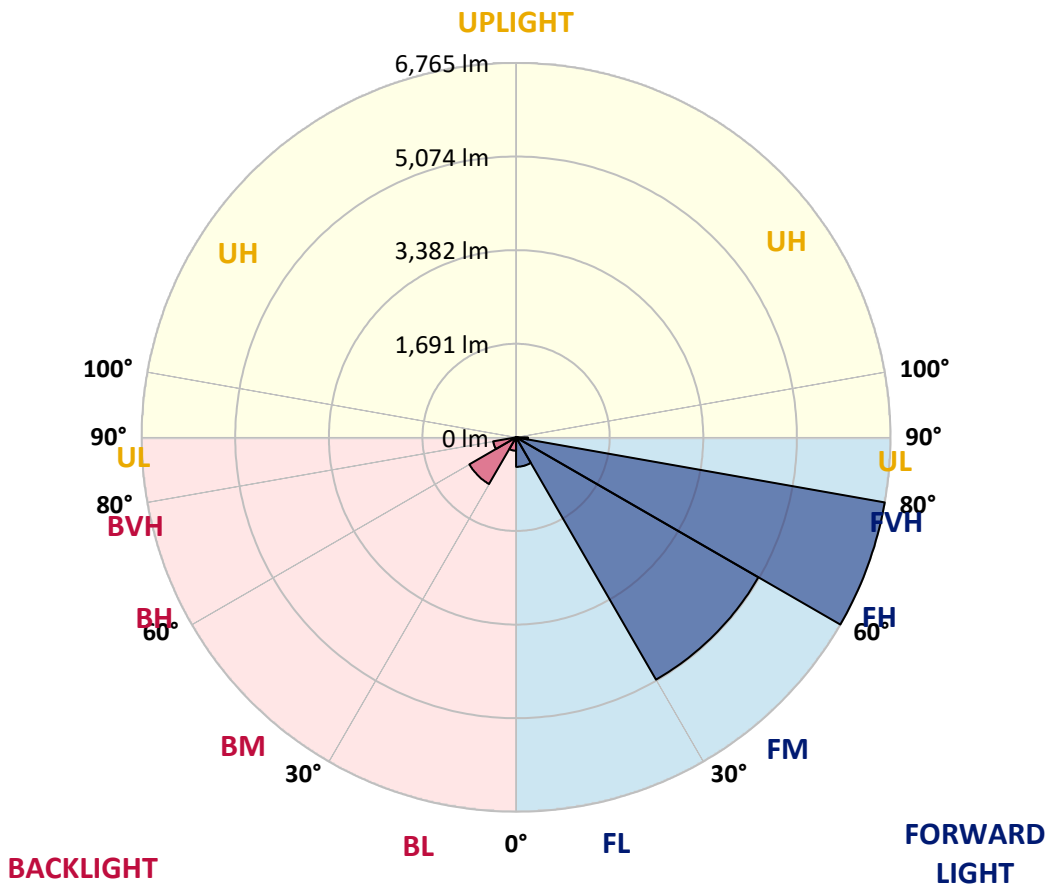
CATALOG NUMBER: GWS-SA5C-735-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	532.6	3.7			
FM (30°-60°)	5055.7	35.6			
FH (60°-80°)	6765.0	47.6			G3/7500
FVH (80°-90°)	214.7	1.5			G2/225
BL (0°-30°)	242.5	1.7	B1/500		
BM (30°-60°)	974.2	6.9	B1/1000		
BH (60°-80°)	420.2	3.0	B1/500		G1/500
BVH (80°-90°)	15.3	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5
2.5°	729.1	727.4	724.0	713.9	705.5	700.4	690.3	690.3	688.6	685.3	678.5
5°	705.5	698.7	692.0	673.5	653.3	641.5	628.0	626.3	626.3	623.0	621.3
7.5°	668.4	661.7	653.3	623.0	604.5	592.7	580.9	579.2	574.2	574.2	574.2
10°	648.2	638.1	624.7	591.0	572.5	562.4	553.9	548.9	545.5	540.5	538.8
12.5°	692.0	673.5	644.9	584.3	559.0	545.5	535.4	532.1	522.0	515.2	510.2
15°	828.4	782.9	725.7	599.4	553.9	533.7	520.3	513.5	505.1	493.3	484.9
17.5°	1052.3	986.7	890.7	648.2	548.9	523.6	506.8	495.0	483.2	469.8	459.7
20°	1362.1	1264.5	1150.0	737.5	548.9	511.9	491.6	476.5	459.7	444.5	432.7
22.5°	1756.1	1658.5	1463.2	889.0	555.6	496.7	473.1	452.9	432.7	419.2	405.8
25°	2197.3	2059.2	1877.4	1072.5	574.2	476.5	451.2	431.0	412.5	395.7	380.5
27.5°	2688.9	2539.1	2296.6	1333.5	614.6	456.3	427.7	409.1	392.3	375.5	355.3
30°	3141.8	3052.6	2805.1	1646.7	680.2	442.8	409.1	392.3	375.5	353.6	335.1
32.5°	3685.7	3527.4	3323.7	2003.6	767.8	429.4	394.0	370.4	357.0	336.7	316.5
35°	4232.9	4098.2	3830.5	2443.1	865.4	415.9	375.5	353.6	341.8	318.2	296.3
37.5°	4797.0	4766.6	4502.3	2929.7	961.4	400.7	353.6	340.1	328.3	301.4	276.1
40°	5352.6	5297.0	5052.9	3485.3	1020.3	383.9	335.1	326.6	313.2	282.9	254.2
42.5°	5884.6	5842.6	5605.1	4017.4	1011.9	368.7	316.5	306.4	296.3	266.0	230.7
45°	6537.9	6468.9	6169.2	4411.4	926.1	385.6	298.0	281.2	279.5	250.9	207.1
47.5°	7760.3	7533.0	7024.5	4714.5	840.2	429.4	277.8	257.6	269.4	235.7	183.5
50°	9472.7	9205.0	8469.2	4950.2	838.5	486.6	274.4	235.7	261.0	223.9	163.3
52.5°	11193.5	10722.0	9827.9	5076.5	900.8	528.7	304.8	213.8	250.9	212.2	148.2
55°	12841.8	11863.6	10397.0	4658.9	949.6	574.2	360.3	202.0	232.4	198.7	139.7
57.5°	14412.7	12781.2	10644.6	3685.7	1112.9	592.7	394.0	207.1	205.4	181.8	133.0
60°	14628.3	12737.4	10144.5	2143.4	1227.4	560.7	380.5	230.7	180.2	161.6	121.2
62.5°	13813.3	11890.5	9004.6	1336.9	1139.9	548.9	338.4	262.7	163.3	143.1	106.1
65°	12575.8	10562.1	7507.8	862.1	863.8	609.5	296.3	257.6	153.2	126.3	90.9
67.5°	10641.2	8839.6	5915.0	577.5	488.3	520.3	259.3	176.8	149.9	107.8	70.7
70°	7767.1	6292.1	3850.7	385.6	291.3	415.9	217.2	126.3	141.4	89.2	50.5
72.5°	5677.5	4227.9	2150.1	252.6	165.0	242.5	160.0	90.9	109.4	65.7	35.4
75°	4086.4	2909.5	1227.4	161.6	109.4	133.0	104.4	62.3	70.7	52.2	32.0
77.5°	1966.6	1417.7	557.3	89.2	74.1	67.3	55.6	38.7	43.8	47.1	28.6
80°	74.1	55.6	42.1	43.8	47.1	30.3	25.3	20.2	25.3	32.0	15.2
82.5°	0.0	0.0	0.0	5.1	6.7	8.4	10.1	8.4	10.1	11.8	1.7
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°	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5
2.5°	683.6	680.2	683.6	687.0	690.3	693.7	688.6	692.0	695.4	687.0	690.3
5°	629.7	628.0	638.1	643.2	649.9	653.3	649.9	649.9	648.2	638.1	638.1
7.5°	582.6	584.3	592.7	604.5	612.9	617.9	614.6	612.9	607.8	592.7	592.7
10°	547.2	547.2	560.7	570.8	582.6	587.6	584.3	579.2	574.2	559.0	557.3
12.5°	518.6	518.6	528.7	545.5	559.0	565.7	564.1	557.3	548.9	533.7	532.1
15°	491.6	490.0	505.1	520.3	538.8	547.2	543.8	538.8	523.6	510.2	506.8
17.5°	464.7	463.0	476.5	496.7	516.9	528.7	527.0	515.2	501.8	484.9	481.5
20°	437.8	434.4	451.2	471.4	491.6	503.4	500.1	490.0	473.1	456.3	452.9
22.5°	410.8	409.1	420.9	437.8	456.3	466.4	464.7	456.3	439.5	424.3	424.3
25°	380.5	380.5	388.9	400.7	414.2	419.2	420.9	417.6	407.5	399.0	399.0
27.5°	355.3	350.2	353.6	357.0	363.7	372.1	372.1	375.5	377.2	373.8	375.5
30°	335.1	326.6	321.6	314.9	311.5	314.9	318.2	330.0	341.8	348.5	351.9
32.5°	311.5	301.4	287.9	269.4	257.6	254.2	264.3	286.2	308.1	323.3	331.7
35°	287.9	274.4	249.2	222.3	207.1	202.0	213.8	239.1	271.1	298.0	309.8
37.5°	264.3	245.8	210.5	178.5	161.6	158.3	170.1	197.0	234.0	271.1	286.2
40°	237.4	215.5	173.4	139.7	126.3	122.9	133.0	160.0	198.7	240.8	264.3
42.5°	210.5	183.5	139.7	111.1	97.7	97.7	111.1	131.3	166.7	212.2	240.8
45°	183.5	154.9	114.5	89.2	80.8	82.5	90.9	111.1	139.7	186.9	213.8
47.5°	158.3	133.0	94.3	74.1	67.3	69.0	79.1	96.0	119.5	161.6	190.3
50°	136.4	112.8	82.5	62.3	57.2	60.6	70.7	85.9	106.1	143.1	166.7
52.5°	122.9	101.0	75.8	53.9	50.5	53.9	64.0	77.5	96.0	126.3	149.9
55°	116.2	99.3	75.8	48.8	43.8	47.1	57.2	70.7	85.9	114.5	134.7
57.5°	114.5	102.7	80.8	43.8	37.0	40.4	50.5	64.0	79.1	104.4	121.2
60°	107.8	97.7	79.1	35.4	28.6	33.7	42.1	55.6	72.4	97.7	112.8
62.5°	94.3	85.9	69.0	28.6	21.9	25.3	35.4	48.8	65.7	89.2	106.1
65°	77.5	69.0	53.9	18.5	13.5	16.8	26.9	42.1	57.2	80.8	96.0
67.5°	57.2	48.8	37.0	11.8	6.7	11.8	21.9	35.4	52.2	72.4	87.6
70°	35.4	28.6	20.2	6.7	5.1	10.1	20.2	33.7	47.1	67.3	82.5
72.5°	20.2	13.5	8.4	3.4	5.1	10.1	20.2	33.7	45.5	64.0	77.5
75°	15.2	8.4	3.4	1.7	3.4	8.4	18.5	30.3	43.8	60.6	74.1
77.5°	10.1	5.1	1.7	0.0	1.7	6.7	16.8	28.6	40.4	57.2	70.7
80°	1.7	0.0	0.0	0.0	0.0	5.1	15.2	25.3	37.0	50.5	62.3
82.5°	0.0	0.0	0.0	0.0	0.0	1.7	11.8	21.9	32.0	42.1	50.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	6.7	16.8	25.3	32.0	35.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	16.8	20.2	23.6
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°	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5
2.5°	688.6	698.7	698.7	705.5	713.9	729.1	737.5	749.3	757.7	766.1	769.5
5°	636.5	638.1	639.8	643.2	653.3	670.1	685.3	703.8	725.7	742.5	752.6
7.5°	592.7	592.7	592.7	597.7	607.8	619.6	634.8	660.0	685.3	705.5	722.3
10°	555.6	560.7	562.4	570.8	582.6	597.7	614.6	636.5	665.1	692.0	722.3
12.5°	532.1	537.1	545.5	553.9	565.7	582.6	601.1	629.7	688.6	744.2	808.2
15°	510.2	516.9	527.0	538.8	552.3	570.8	591.0	649.9	788.0	892.4	993.4
17.5°	486.6	496.7	510.2	522.0	538.8	559.0	584.3	698.7	969.8	1143.3	1315.0
20°	456.3	469.8	484.9	503.4	523.6	547.2	584.3	799.8	1232.5	1481.7	1709.0
22.5°	427.7	441.1	459.7	483.2	506.8	530.4	592.7	953.0	1570.9	1885.8	2173.7
25°	404.1	420.9	439.5	459.7	486.6	513.5	612.9	1168.5	1978.4	2384.2	2587.9
27.5°	382.2	402.4	420.9	437.8	461.3	491.6	658.3	1456.4	2459.9	2872.4	3032.4
30°	360.3	383.9	402.4	419.2	442.8	474.8	727.4	1823.5	2995.4	3396.1	3412.9
32.5°	341.8	363.7	385.6	402.4	424.3	461.3	823.3	2252.8	3544.3	3931.5	3773.2
35°	321.6	346.8	367.1	385.6	409.1	449.6	934.5	2715.9	4098.2	4423.2	4131.9
37.5°	301.4	330.0	355.3	368.7	392.3	437.8	1015.3	3199.1	4663.9	4903.0	4446.7
40°	282.9	314.9	343.5	357.0	368.7	422.6	1027.1	3694.1	5238.1	5376.2	4743.1
42.5°	262.7	298.0	323.3	341.8	351.9	412.5	956.4	4111.7	5719.6	5847.6	5130.3
45°	240.8	282.9	303.1	316.5	336.7	419.2	865.4	4435.0	6270.2	6490.8	5768.5
47.5°	218.9	266.0	282.9	293.0	319.9	459.7	831.8	4650.5	7177.8	7635.7	6844.4
50°	198.7	250.9	269.4	267.7	316.5	511.9	868.8	4813.8	8541.6	9080.4	8319.3
52.5°	176.8	234.0	255.9	249.2	341.8	552.3	942.9	4943.4	9590.5	10774.2	10301.1
55°	158.3	215.5	235.7	234.0	388.9	582.6	1000.1	4259.8	10024.9	12348.5	12533.7
57.5°	144.8	195.3	212.2	240.8	419.2	582.6	1156.7	3024.0	10033.4	13506.9	15497.1
60°	133.0	176.8	188.6	264.3	407.5	552.3	1144.9	1852.1	9247.1	13427.8	17073.0
62.5°	122.9	160.0	175.1	271.1	360.3	547.2	1033.8	1148.3	7886.6	12405.7	15929.8
65°	114.5	146.5	168.4	249.2	326.6	585.9	697.1	825.0	6396.5	11240.6	14618.2
67.5°	106.1	134.7	178.5	203.7	296.3	523.6	503.4	585.9	5020.9	9962.6	13414.3
70°	99.3	128.0	188.6	166.7	259.3	409.1	357.0	444.5	3844.0	8312.6	11718.8
72.5°	94.3	119.5	158.3	131.3	210.5	316.5	249.2	323.3	2512.1	6489.1	9553.5
75°	89.2	109.4	116.2	106.1	156.6	207.1	188.6	217.2	1496.8	4743.1	7248.5
77.5°	87.6	102.7	94.3	85.9	106.1	122.9	143.1	146.5	730.7	2372.4	3798.5
80°	77.5	92.6	80.8	70.7	72.4	80.8	106.1	97.7	166.7	602.8	1013.6
82.5°	60.6	72.4	67.3	58.9	58.9	58.9	70.7	65.7	53.9	271.1	458.0
85°	42.1	50.5	50.5	47.1	45.5	45.5	43.8	42.1	15.2	16.8	25.3
87.5°	28.6	35.4	37.0	35.4	30.3	26.9	23.6	20.2	6.7	0.0	3.4
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):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5	737.5
2.5°	781.3	786.3	786.3	779.6	774.5	761.0	747.6	734.1	730.7	729.1
5°	781.3	801.5	811.6	809.9	798.1	776.2	747.6	717.3	708.9	705.5
7.5°	769.5	808.2	838.5	843.5	821.7	782.9	730.7	685.3	673.5	668.4
10°	796.4	872.2	932.8	941.2	916.0	840.2	756.0	678.5	660.0	648.2
12.5°	941.2	1065.8	1139.9	1175.2	1126.4	1030.4	890.7	752.6	710.5	692.0
15°	1234.2	1411.0	1552.4	1552.4	1506.9	1336.9	1160.1	936.2	878.9	828.4
17.5°	1609.6	1831.9	1956.5	1943.0	1874.0	1754.4	1542.3	1220.7	1104.5	1052.3
20°	2037.3	2170.3	2199.0	2190.5	2160.2	2091.2	1944.7	1599.5	1443.0	1362.1
22.5°	2407.7	2372.4	2330.3	2296.6	2288.2	2308.4	2288.2	2022.2	1899.3	1756.1
25°	2658.6	2458.2	2332.0	2271.4	2300.0	2416.2	2542.4	2443.1	2345.4	2197.3
27.5°	2795.0	2448.1	2266.3	2204.0	2252.8	2417.8	2692.3	2860.7	2759.6	2688.9
30°	2869.1	2439.7	2224.2	2163.6	2237.7	2444.8	2796.7	3251.3	3254.7	3141.8
32.5°	2975.2	2493.6	2232.6	2177.1	2276.4	2525.6	2928.0	3648.6	3746.3	3685.7
35°	3094.7	2576.1	2271.4	2220.8	2343.8	2633.4	3074.5	4049.4	4253.1	4232.9
37.5°	3207.5	2668.7	2362.3	2313.4	2446.5	2726.0	3215.9	4443.4	4726.2	4797.0
40°	3325.4	2798.4	2641.8	2688.9	2763.0	2872.4	3342.2	4785.2	5246.5	5352.6
42.5°	3603.2	3247.9	3487.0	3576.2	3586.4	3360.7	3618.3	5222.9	5758.4	5884.6
45°	4222.8	4047.7	4733.0	4859.3	4793.6	4110.0	4283.4	5854.3	6474.0	6537.9
47.5°	5005.7	5086.6	6438.6	6874.7	6480.7	4994.0	5089.9	7182.8	7783.9	7760.3
50°	5918.3	6300.5	8374.9	9403.6	8460.8	6142.3	6019.3	8816.0	9545.1	9472.7
52.5°	6997.6	7711.5	10701.8	12163.3	11270.9	7433.7	7383.2	10979.6	11424.1	11193.5
55°	8356.4	9073.6	13378.9	15421.3	14151.8	9009.7	9183.1	13488.4	13574.3	12841.8
57.5°	10383.6	10850.0	16534.3	19157.5	17158.9	11151.4	12409.1	16827.2	15800.1	14412.7
60°	14064.2	13134.8	19583.5	22979.6	20358.0	14163.6	16663.9	18805.6	16541.0	14628.3
62.5°	15345.5	15074.5	21492.8	24596.0	22509.8	16637.0	17770.1	17684.2	15581.3	13813.3
65°	13404.2	14591.2	21151.0	23742.3	22233.7	16229.5	15946.6	16446.7	14500.3	12575.8
67.5°	12382.2	13456.4	19856.3	21386.8	20703.2	14847.2	14214.1	14077.7	12173.4	10641.2
70°	11351.7	12415.8	17978.9	18169.2	17850.9	12594.3	11762.6	10848.3	9098.9	7767.1
72.5°	10112.5	10698.4	15374.2	14471.7	14111.4	9891.9	9716.8	8169.5	6820.8	5677.5
75°	8819.4	8649.3	11986.5	9932.3	10201.7	7696.3	8206.5	5999.1	4997.3	4086.4
77.5°	6415.0	6288.7	8028.0	6032.8	6681.1	5041.1	4529.2	2394.3	2279.8	1966.6
80°	3579.6	4315.4	4335.6	3380.9	4217.7	3286.6	1133.2	79.1	50.5	74.1
82.5°	1663.5	1855.5	2350.5	1567.6	2406.1	1628.2	234.0	0.0	0.0	0.0
85°	538.8	788.0	660.0	230.7	582.6	550.6	38.7	0.0	0.0	0.0
87.5°	32.0	65.7	16.8	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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