

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: P640245

Luminaire Tested: GWS-SA5D-740-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640245  
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-SA5D-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

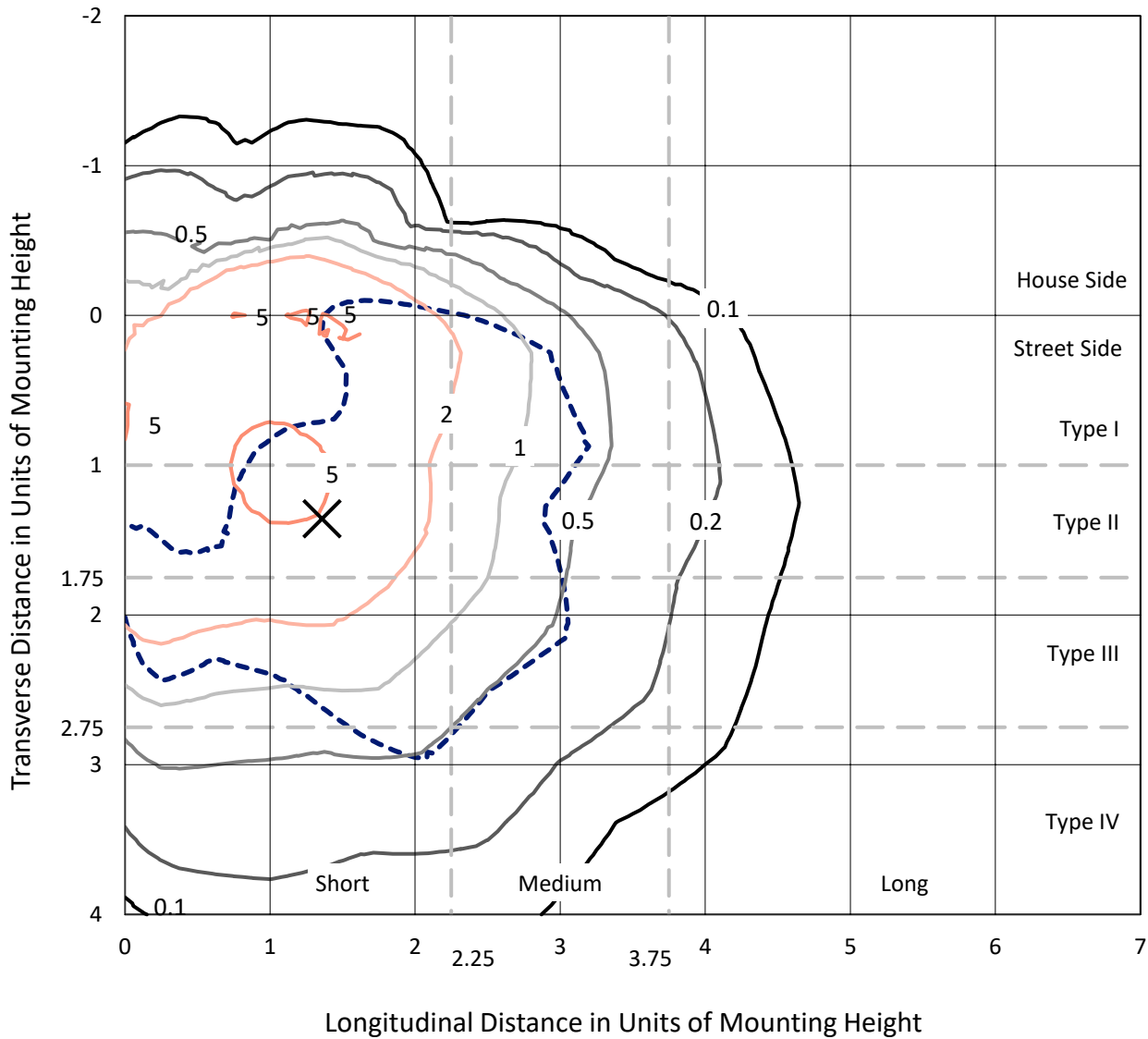
Lumens per Lamp: N/A  
Luminaire Lumens: 18643.3 lumens  
Efficiency: N/A  
Efficacy: 91.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

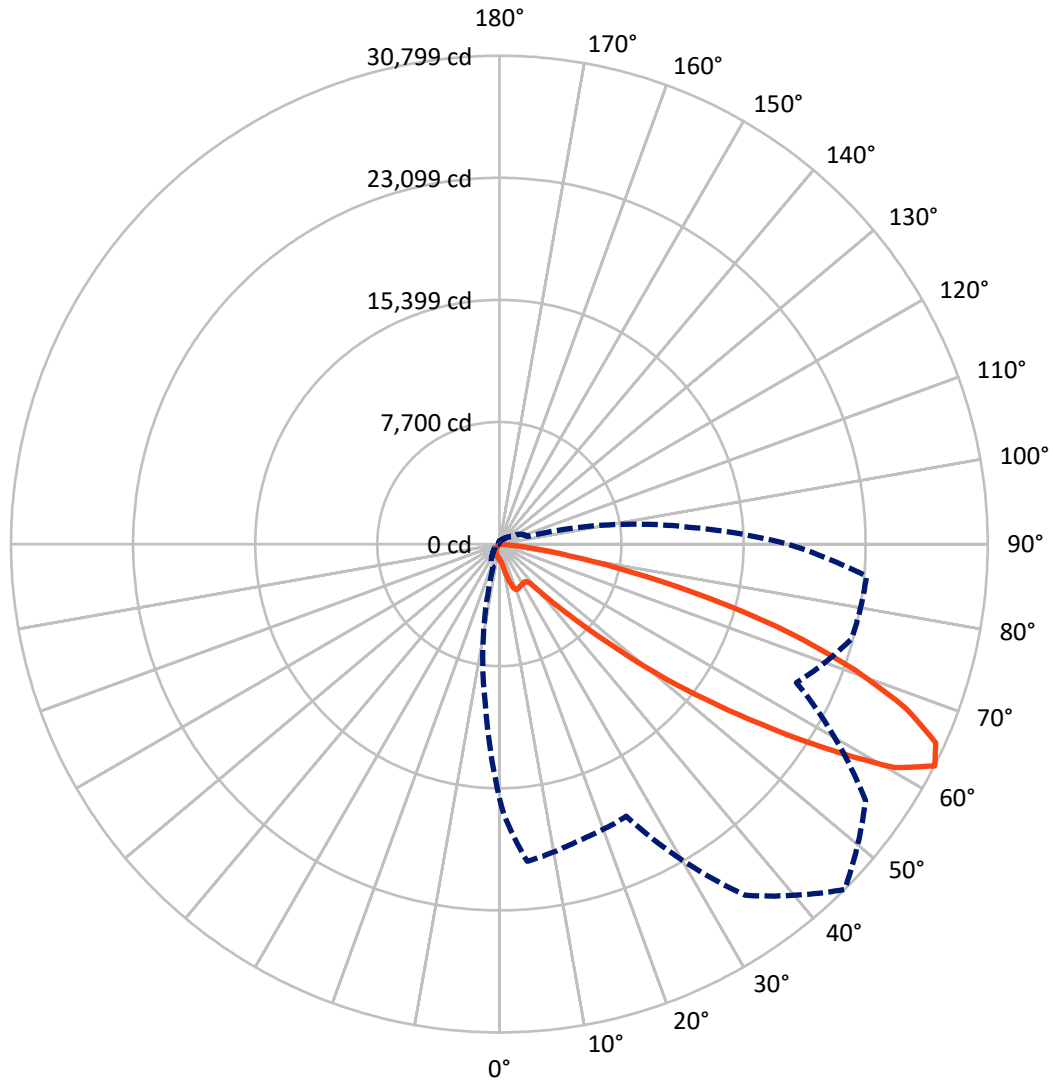
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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
<b>House Side</b>	Lumens	2300.6	0.0	2300.6
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	16342.7	0.0	16342.7
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	18643.3	0.0	18643.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.0	0.5
10°-20°	325.0	1.7
20°-30°	706.6	3.8
30°-40°	1159.7	6.2
40°-50°	2132.0	11.4
50°-60°	4578.5	24.6
60°-70°	6149.7	33.0
70°-80°	3202.2	17.2
80°-90°	303.6	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°	18643.3	100.0
0°-180°	18643.3	100.0

**Coefficient of Utilization**



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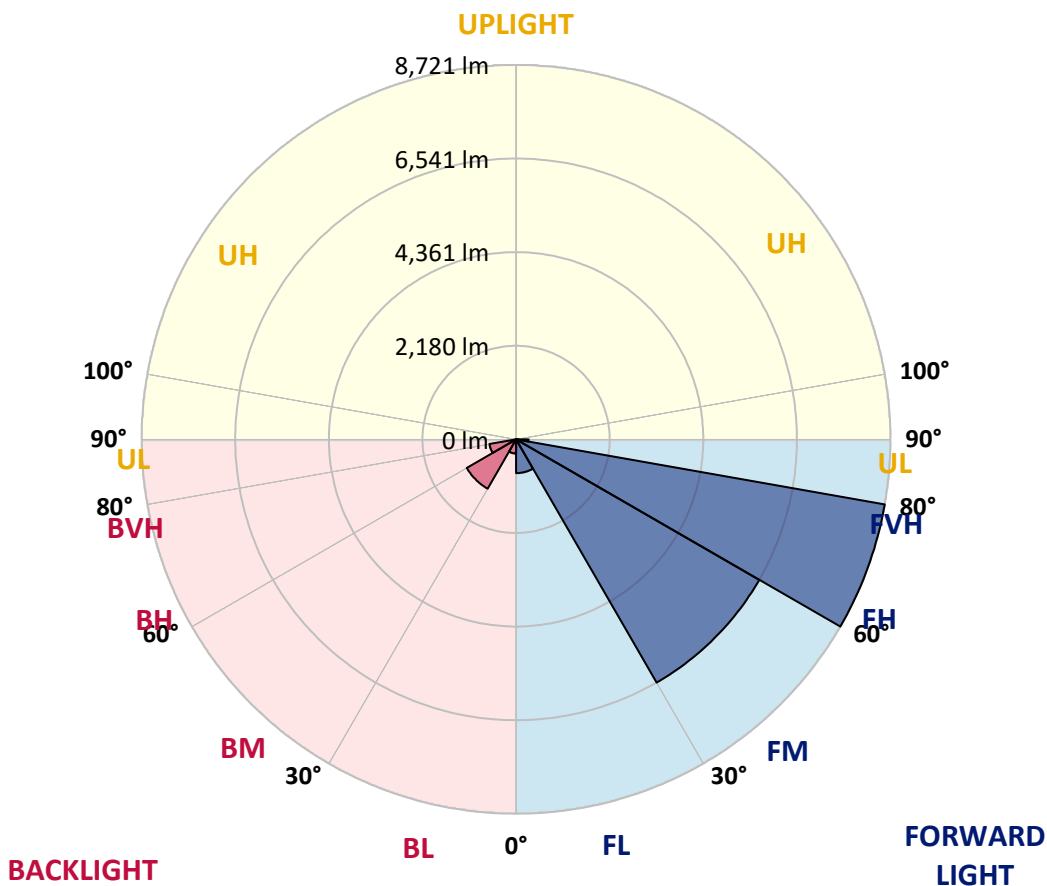
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	787.6	4.2			
FM (30°-60°)	6543.6	35.1			
FH (60°-80°)	8721.5	46.8			G4/12000
FVH (80°-90°)	290.1	1.6			G3/500
BL (0°-30°)	330.0	1.8	B1/500		
BM (30°-60°)	1326.7	7.1	B2/2500		
BH (60°-80°)	630.4	3.4	B2/1000		G2/1000
BVH (80°-90°)	13.5	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	969.1	969.1	969.1	969.1	969.1	969.1	969.1	969.1	969.1	969.1	969.1
2.5°	988.4	992.7	997.1	1012.1	1022.9	1031.5	1033.7	1027.2	1012.1	997.1	975.5
5°	958.3	962.6	977.7	1018.6	1059.5	1091.8	1102.6	1096.1	1059.5	1012.1	962.6
7.5°	956.1	964.8	1001.4	1087.5	1175.8	1242.6	1259.8	1244.7	1175.8	1081.0	979.8
10°	1033.7	1048.7	1102.6	1257.6	1419.1	1537.6	1585.0	1520.3	1410.5	1238.2	1072.4
12.5°	1236.1	1261.9	1365.3	1591.4	1841.2	1998.4	2063.0	1983.3	1811.1	1561.3	1298.5
15°	1554.8	1593.6	1748.6	2086.7	2381.7	2521.7	2543.2	2498.0	2297.8	2022.1	1668.9
17.5°	2004.9	2060.9	2302.1	2646.6	2859.8	2909.3	2902.9	2855.5	2709.1	2519.6	2185.8
20°	2543.2	2610.0	2846.9	3131.1	3152.7	3094.5	3062.2	3034.2	2984.7	2952.4	2691.8
22.5°	3085.9	3167.8	3415.4	3486.5	3292.7	3124.7	3045.0	3066.5	3139.8	3299.1	3193.6
25°	3626.4	3704.0	3936.5	3744.9	3357.3	3077.3	2976.1	3027.8	3202.2	3546.8	3682.4
27.5°	4257.4	4315.6	4453.4	3921.5	3368.0	3038.5	2939.5	3019.2	3232.4	3701.8	4218.6
30°	4914.2	4948.7	4881.9	3968.8	3331.4	2980.4	2902.9	3019.2	3284.0	3805.2	4621.3
32.5°	5396.6	5403.1	5185.6	3973.2	3312.0	2933.0	2868.4	3006.2	3333.6	3891.3	5011.1
35°	5894.0	5861.7	5476.3	4037.8	3363.7	2950.3	2894.3	3042.9	3411.1	3992.5	5353.5
37.5°	6398.0	6339.8	5801.4	4143.3	3497.2	3137.6	3103.1	3230.2	3536.0	4132.5	5730.4
40°	6914.8	6835.1	6139.5	4302.6	3794.4	3775.0	3893.5	3878.4	3878.4	4311.2	6118.0
42.5°	7545.8	7453.2	6639.1	4752.7	4487.8	4920.7	5243.7	5043.4	4673.0	4722.6	6621.9
45°	8379.2	8299.5	7504.8	5614.1	5575.3	6570.2	7005.2	6609.0	5687.3	5672.2	7463.9
47.5°	9712.1	9697.1	8885.2	6613.3	6906.2	8669.9	9509.7	8747.4	6843.7	6677.9	9057.5
50°	11585.7	11540.4	10605.8	7784.8	8489.0	11271.3	12770.1	11499.5	8241.3	7851.6	11191.6
52.5°	13696.1	13743.4	13015.6	9064.0	10170.8	14165.5	16252.2	14652.2	9759.5	9343.9	13877.0
55°	15683.7	15955.1	15763.4	10560.6	11813.9	17361.3	20076.8	18110.7	11639.5	11297.1	16887.5
57.5°	17238.5	18003.0	19346.8	12735.6	13745.6	21099.7	24347.1	21859.9	13833.9	14469.2	20985.6
60°	17324.7	18336.8	21457.2	17285.9	16230.7	24306.2	28611.0	25522.9	17283.7	19855.0	24196.4
62.5°	16026.1	17111.5	20083.3	19353.2	18937.6	27034.7	30798.9	28193.2	20677.6	23009.8	23244.6
65°	14540.2	15636.3	18550.0	17008.1	18623.2	26918.4	30243.3	28255.7	20985.6	20865.0	21541.2
67.5°	12294.2	13278.3	15916.3	15054.9	17165.3	25619.8	27676.4	26474.8	19333.9	19514.7	19816.2
70°	8973.5	9921.0	12369.5	12412.6	14990.3	23279.0	23780.8	23614.9	17804.9	17996.5	17135.2
72.5°	6481.9	7280.9	9393.4	10179.5	11966.8	19521.2	19174.5	19814.1	15276.7	16028.3	13762.8
75°	4660.1	5258.8	6891.1	8855.1	9486.0	14497.2	13726.2	15345.6	12257.5	13801.6	10347.4
77.5°	1890.7	2101.8	2711.2	5965.1	6234.3	9753.1	8402.8	11146.4	8738.8	9068.3	5015.4
80°	77.5	86.1	112.0	3079.5	4274.6	5487.0	4496.4	5958.7	5771.3	3652.3	1184.4
82.5°	8.6	8.6	19.4	887.2	1871.4	3027.8	2119.0	3432.6	2922.3	1548.3	538.4
85°	2.2	2.2	4.3	101.2	439.3	484.5	286.4	1053.0	1358.8	633.1	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.8	19.4	21.5	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°	969.1	969.1	969.1	969.1	969.1	969.1	969.1	969.1	969.1	969.1	969.1
2.5°	975.5	964.8	951.8	938.9	932.5	915.2	908.8	904.5	900.2	902.3	902.3
5°	943.2	919.5	891.5	863.5	848.5	831.2	822.6	818.3	820.5	829.1	829.1
7.5°	938.9	893.7	833.4	796.8	779.6	766.6	758.0	753.7	755.9	766.6	770.9
10°	1010.0	930.3	822.6	760.2	740.8	727.9	719.3	712.8	708.5	717.1	719.3
12.5°	1162.9	1053.0	874.3	755.9	721.4	704.2	697.7	684.8	678.3	682.6	684.8
15°	1479.4	1289.9	977.7	773.1	704.2	684.8	674.0	663.3	652.5	650.3	652.5
17.5°	1892.9	1621.6	1134.9	814.0	691.3	667.6	652.5	637.4	622.4	620.2	618.0
20°	2405.4	2028.6	1354.5	878.6	680.5	652.5	631.0	609.4	590.1	583.6	583.6
22.5°	2872.7	2519.6	1636.6	958.3	665.4	631.0	605.1	579.3	557.7	547.0	544.8
25°	3443.4	3040.7	1974.7	1050.9	643.9	603.0	575.0	549.1	527.6	514.7	510.4
27.5°	4018.4	3589.8	2358.0	1171.5	618.0	575.0	549.1	525.4	501.8	486.7	482.4
30°	4576.1	4182.0	2788.7	1322.2	598.7	547.0	525.4	501.8	480.2	456.5	450.1
32.5°	5174.8	4787.2	3271.1	1490.2	583.6	527.6	503.9	482.4	454.4	432.8	422.1
35°	5751.9	5411.7	3803.0	1653.9	568.5	510.4	484.5	463.0	432.8	409.2	394.1
37.5°	6333.4	6046.9	4358.6	1752.9	547.0	486.7	463.0	445.8	411.3	383.3	366.1
40°	6949.2	6703.8	4959.4	1712.0	527.6	460.8	447.9	428.5	389.8	357.5	335.9
42.5°	7625.4	7330.4	5571.0	1554.8	510.4	439.3	426.4	407.0	370.4	331.6	303.6
45°	8476.1	8017.4	6072.8	1317.9	519.0	417.8	391.9	387.6	353.2	303.6	269.2
47.5°	9938.3	9072.6	6462.6	1165.0	577.1	394.1	363.9	374.7	338.1	275.6	236.9
50°	12175.7	10821.2	6826.5	1154.3	665.4	383.3	338.1	366.1	323.0	247.6	208.9
52.5°	14307.7	12597.8	7059.1	1249.0	742.9	411.3	312.3	355.3	312.3	228.3	189.5
55°	16347.0	13622.8	6643.5	1317.9	816.2	495.3	292.9	338.1	299.3	217.5	183.0
57.5°	18545.7	14079.4	5230.8	1457.9	867.8	566.4	297.2	312.3	282.1	211.0	180.9
60°	19202.5	13495.8	3157.0	1640.9	839.9	587.9	329.5	277.8	258.4	198.1	174.4
62.5°	18181.7	12111.1	1862.8	1494.5	816.2	555.6	376.9	256.3	234.7	180.9	161.5
65°	16654.9	10231.1	1214.6	1261.9	865.7	495.3	400.5	245.5	213.2	163.7	142.1
67.5°	14910.6	8241.3	850.6	745.1	798.9	445.8	338.1	243.3	191.7	137.8	116.3
70°	12559.0	6171.8	598.7	493.1	665.4	396.2	262.7	236.9	168.0	112.0	90.4
72.5°	9703.5	3863.3	445.8	318.7	473.8	323.0	208.9	200.3	135.7	92.6	68.9
75°	7156.0	2203.0	314.4	230.4	312.3	245.5	155.0	142.1	116.3	88.3	62.5
77.5°	3736.3	1102.6	196.0	176.6	178.7	152.9	112.0	103.4	107.7	88.3	58.1
80°	717.1	219.7	118.4	129.2	96.9	96.9	81.8	86.1	94.8	71.1	49.5
82.5°	299.3	47.4	64.6	73.2	60.3	66.8	66.8	68.9	66.8	51.7	36.6
85°	0.0	0.0	28.0	30.1	40.9	40.9	34.5	34.5	34.5	30.1	21.5
87.5°	0.0	0.0	0.0	0.0	2.2	6.5	12.9	15.1	17.2	12.9	8.6
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°	969.1	969.1	969.1	969.1	969.1	969.1	969.1	969.1	969.1	969.1	969.1
2.5°	900.2	895.8	902.3	906.6	910.9	910.9	906.6	902.3	895.8	902.3	895.8
5°	831.2	837.7	848.5	852.8	857.1	848.5	844.2	831.2	820.5	822.6	818.3
7.5°	777.4	783.9	796.8	805.4	805.4	801.1	788.2	775.2	758.0	758.0	755.9
10°	727.9	736.5	751.6	762.3	766.6	762.3	749.4	732.2	717.1	717.1	710.6
12.5°	687.0	697.7	715.0	730.0	734.3	730.0	717.1	699.9	682.6	682.6	678.3
15°	652.5	665.4	684.8	702.0	708.5	702.0	687.0	665.4	648.2	650.3	643.9
17.5°	620.2	631.0	656.8	676.2	682.6	676.2	656.8	628.8	611.6	615.9	611.6
20°	583.6	596.5	622.4	643.9	650.3	643.9	622.4	592.2	575.0	575.0	577.1
22.5°	544.8	557.7	583.6	598.7	607.3	600.8	579.3	551.3	534.1	534.1	536.2
25°	510.4	516.8	536.2	551.3	553.4	547.0	529.8	508.2	495.3	501.8	503.9
27.5°	478.1	478.1	486.7	495.3	493.1	486.7	480.2	463.0	460.8	467.3	473.8
30°	443.6	432.8	428.5	422.1	419.9	417.8	424.2	424.2	428.5	437.2	443.6
32.5°	413.5	391.9	372.6	353.2	342.4	351.0	368.2	383.3	398.4	411.3	417.8
35°	379.0	344.6	312.3	286.4	269.2	282.1	310.1	338.1	363.9	381.2	391.9
37.5°	344.6	295.0	256.3	224.0	211.0	221.8	252.0	290.7	329.5	351.0	366.1
40°	307.9	245.5	200.3	174.4	161.5	172.3	202.4	241.2	292.9	320.9	340.2
42.5°	271.3	202.4	161.5	135.7	129.2	135.7	159.4	198.1	254.1	288.6	314.4
45°	234.7	168.0	129.2	109.8	103.4	109.8	129.2	161.5	217.5	256.3	286.4
47.5°	202.4	142.1	107.7	90.4	86.1	92.6	107.7	135.7	183.0	221.8	256.3
50°	176.6	124.9	92.6	77.5	73.2	79.7	92.6	114.1	155.0	189.5	226.1
52.5°	159.4	116.3	81.8	66.8	64.6	68.9	79.7	96.9	131.4	161.5	196.0
55°	155.0	116.3	75.4	60.3	58.1	62.5	71.1	84.0	114.1	140.0	170.1
57.5°	159.4	124.9	71.1	51.7	49.5	53.8	62.5	73.2	99.1	120.6	148.6
60°	159.4	127.1	62.5	40.9	38.8	43.1	51.7	64.6	88.3	105.5	129.2
62.5°	144.3	116.3	51.7	32.3	28.0	32.3	43.1	53.8	77.5	94.8	114.1
65°	124.9	99.1	43.1	23.7	19.4	23.7	34.5	45.2	66.8	81.8	103.4
67.5°	101.2	75.4	32.3	17.2	12.9	17.2	25.8	36.6	56.0	71.1	92.6
70°	75.4	53.8	25.8	15.1	12.9	15.1	23.7	34.5	49.5	64.6	86.1
72.5°	56.0	36.6	21.5	15.1	10.8	15.1	21.5	32.3	47.4	62.5	81.8
75°	47.4	30.1	19.4	12.9	10.8	12.9	19.4	30.1	43.1	58.1	77.5
77.5°	45.2	28.0	17.2	10.8	8.6	10.8	17.2	25.8	38.8	53.8	75.4
80°	38.8	23.7	15.1	8.6	6.5	8.6	15.1	21.5	30.1	40.9	58.1
82.5°	30.1	19.4	10.8	4.3	2.2	4.3	10.8	12.9	19.4	23.7	34.5
85°	19.4	10.8	4.3	0.0	0.0	0.0	4.3	8.6	8.6	10.8	17.2
87.5°	8.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.3	6.5
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°	969.1	969.1	969.1	969.1	969.1	969.1	969.1	969.1	969.1	969.1
2.5°	908.8	910.9	915.2	921.7	936.8	949.7	962.6	979.8	988.4	988.4
5°	822.6	824.8	826.9	835.5	857.1	874.3	902.3	936.8	954.0	958.3
7.5°	755.9	760.2	764.5	770.9	792.5	816.2	852.8	917.4	949.7	956.1
10°	717.1	723.6	732.2	745.1	764.5	790.3	852.8	969.1	1022.9	1033.7
12.5°	687.0	697.7	706.3	721.4	745.1	786.0	910.9	1115.5	1210.2	1236.1
15°	656.8	669.7	682.6	697.7	723.6	801.1	1022.9	1378.2	1535.4	1554.8
17.5°	626.7	641.7	659.0	676.2	708.5	837.7	1199.5	1742.2	1961.8	2004.9
20°	592.2	611.6	635.3	656.8	693.4	895.8	1445.0	2175.0	2450.6	2543.2
22.5°	555.6	579.3	607.3	635.3	676.2	966.9	1742.2	2640.2	3025.6	3085.9
25°	525.4	549.1	575.0	603.0	648.2	1053.0	2101.8	3217.3	3568.3	3626.4
27.5°	497.5	521.1	544.8	570.7	620.2	1165.0	2534.6	3831.0	4197.1	4257.4
30°	467.3	495.3	519.0	544.8	594.4	1302.8	3034.2	4511.5	4858.2	4914.2
32.5°	441.5	469.5	493.1	519.0	575.0	1453.6	3559.7	5114.5	5396.6	5396.6
35°	419.9	450.1	467.3	501.8	559.9	1550.5	4057.1	5689.5	5902.7	5894.0
37.5°	396.2	432.8	445.8	469.5	540.5	1561.3	4524.4	6296.7	6453.9	6398.0
40°	372.6	411.3	430.7	443.6	519.0	1473.0	5037.0	6854.5	6988.0	6914.8
42.5°	351.0	381.2	409.2	424.2	506.1	1317.9	5448.3	7451.0	7610.4	7545.8
45°	329.5	355.3	372.6	400.5	514.7	1210.2	5801.4	8146.6	8426.5	8379.2
47.5°	307.9	329.5	340.2	383.3	572.8	1160.7	6016.8	9223.3	9750.9	9712.1
50°	284.3	310.1	310.1	379.0	659.0	1177.9	6204.1	10782.4	11598.6	11585.7
52.5°	260.6	288.6	284.3	411.3	725.7	1257.6	6417.3	12158.5	13577.6	13696.1
55°	236.9	262.7	267.0	475.9	764.5	1326.5	5592.6	12737.8	15268.1	15683.7
57.5°	211.0	226.1	277.8	525.4	751.6	1526.8	3831.0	12843.3	16347.0	17238.5
60°	183.0	196.0	314.4	514.7	710.6	1410.5	2411.9	11895.8	16194.1	17324.7
62.5°	159.4	180.9	331.6	454.4	723.6	1223.2	1537.6	10138.5	14736.2	16026.1
65°	140.0	174.4	301.5	411.3	732.2	829.1	1038.0	8247.8	13312.7	14540.2
67.5°	124.9	193.8	247.6	366.1	628.8	583.6	712.8	6408.7	11193.7	12294.2
70°	114.1	198.1	202.4	314.4	486.7	374.7	469.5	4313.4	7715.9	8973.5
72.5°	103.4	146.4	152.9	252.0	314.4	228.3	303.6	2467.9	5624.9	6481.9
75°	99.1	99.1	105.5	163.7	174.4	165.8	196.0	1473.0	4033.4	4660.1
77.5°	92.6	75.4	66.8	105.5	94.8	118.4	116.3	654.7	1748.6	1890.7
80°	73.2	53.8	45.2	66.8	64.6	79.7	68.9	53.8	79.7	77.5
82.5°	45.2	34.5	32.3	40.9	36.6	40.9	32.3	8.6	8.6	8.6
85°	21.5	19.4	17.2	17.2	19.4	17.2	12.9	4.3	2.2	2.2
87.5°	10.8	10.8	8.6	6.5	8.6	8.6	6.5	2.2	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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