

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: P643710

Luminaire Tested: GWS-SA6F-740-U-SLR-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643710  
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-SAGF-740-U-SLR-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND  
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

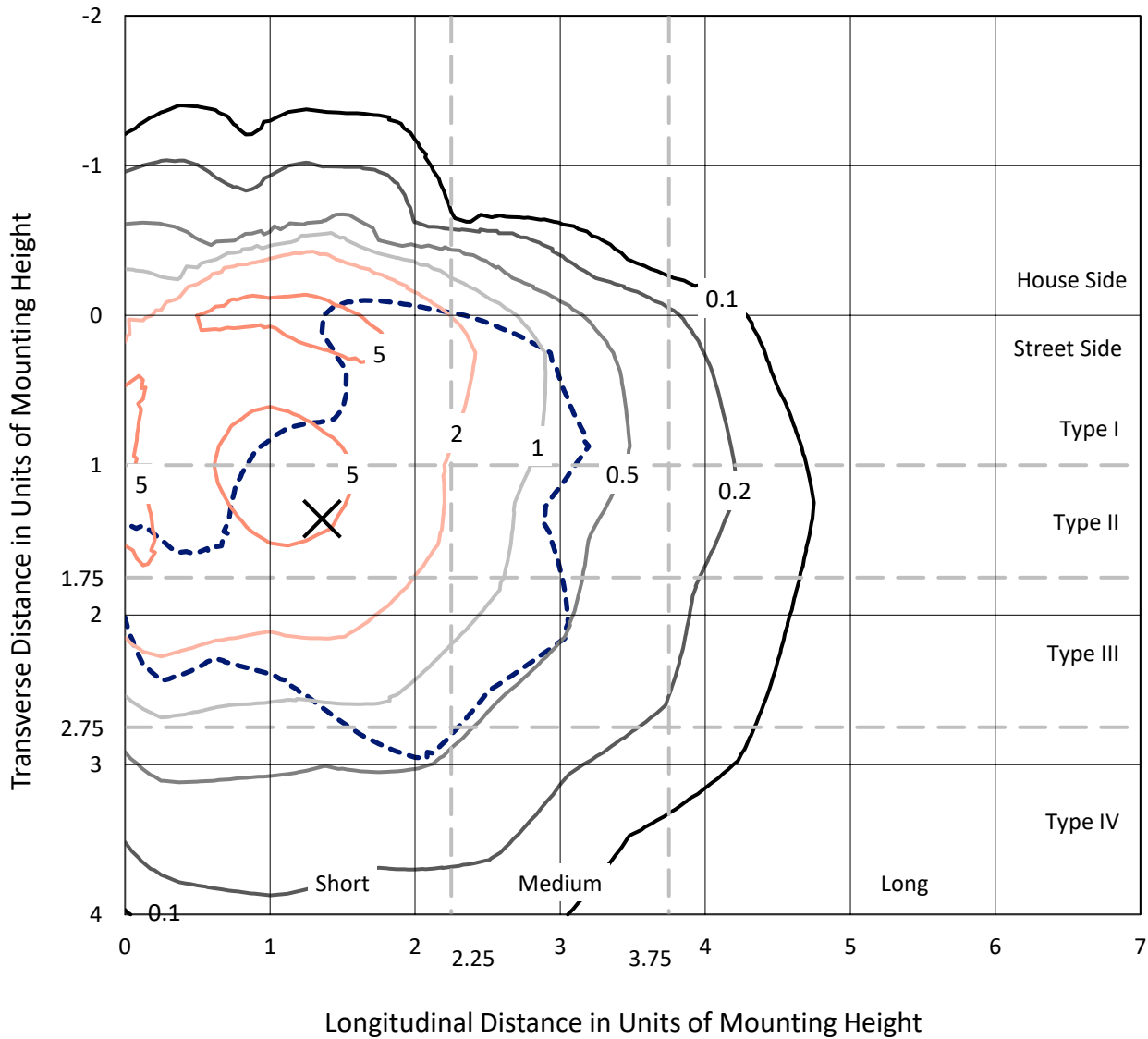
Lumens per Lamp: N/A  
Luminaire Lumens: 30887.1 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

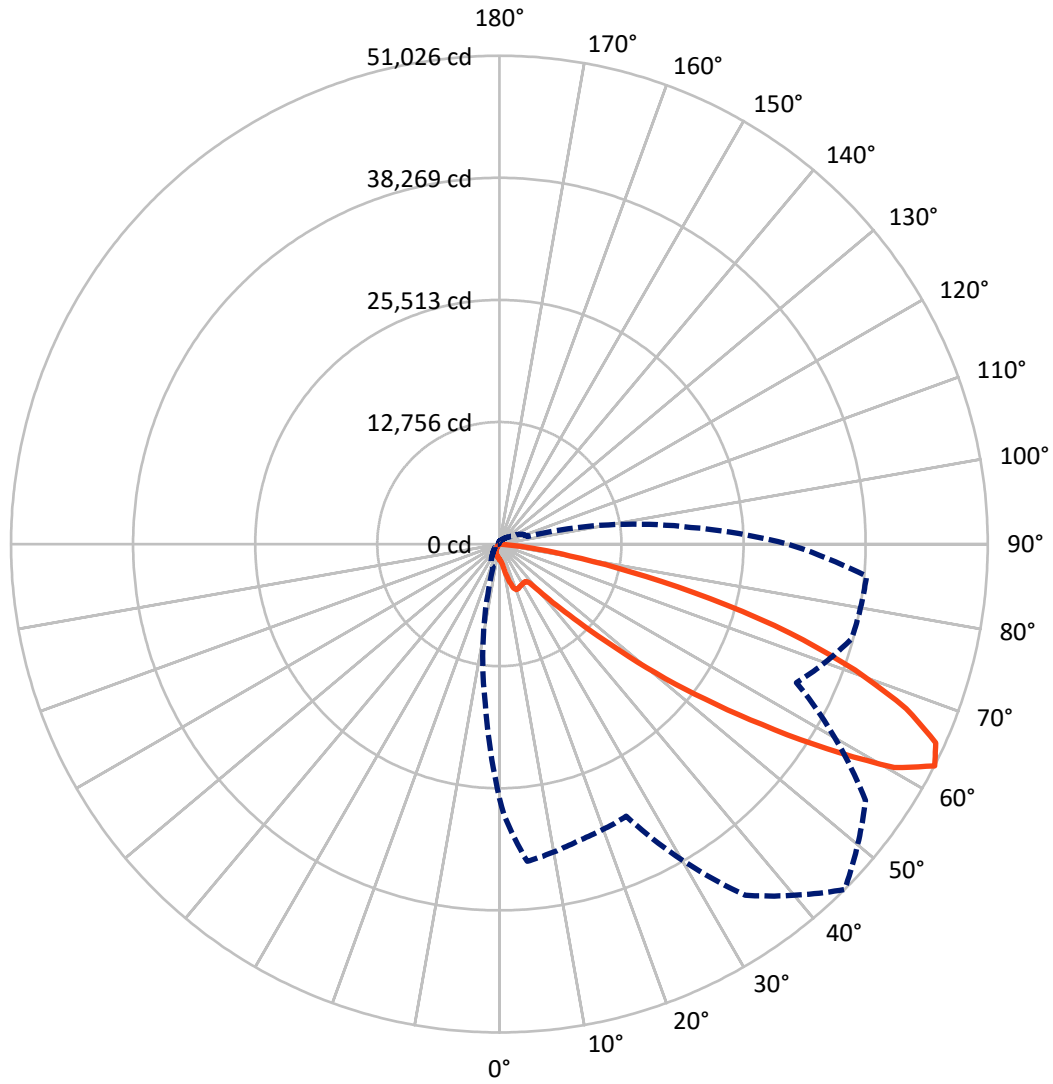
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 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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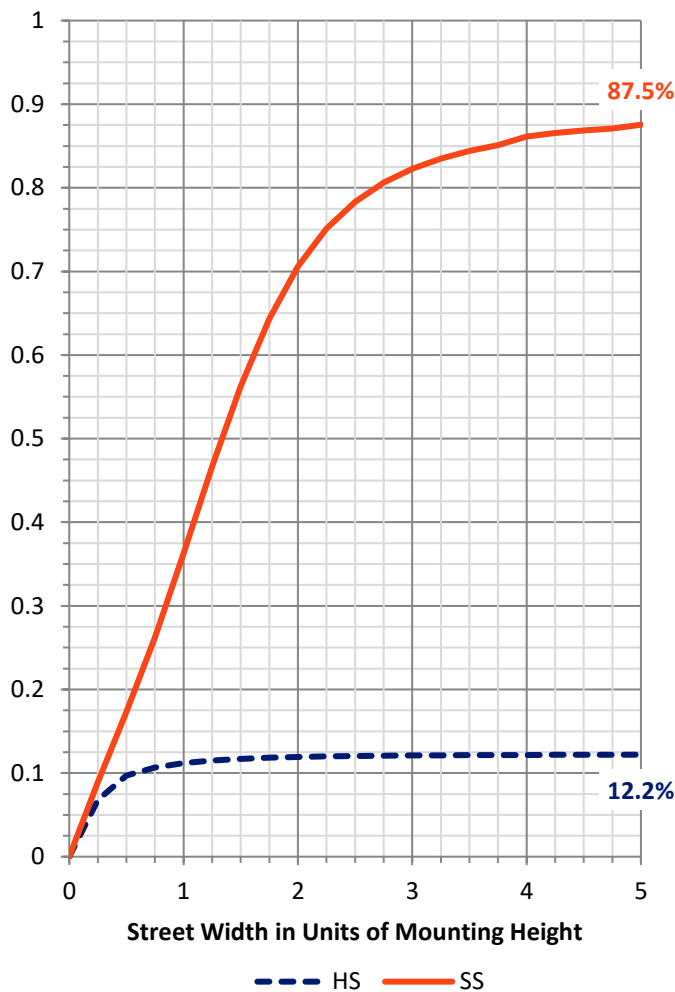
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3811.4	0.0	3811.4
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	27075.7	0.0	27075.7
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	30887.1	0.0	30887.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.4	0.5
10°-20°	538.5	1.7
20°-30°	1170.6	3.8
30°-40°	1921.4	6.2
40°-50°	3532.2	11.4
50°-60°	7585.4	24.6
60°-70°	10188.4	33.0
70°-80°	5305.2	17.2
80°-90°	503.0	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°	30887.1	100.0
0°-180°	30887.1	100.0

**Coefficient of Utilization**



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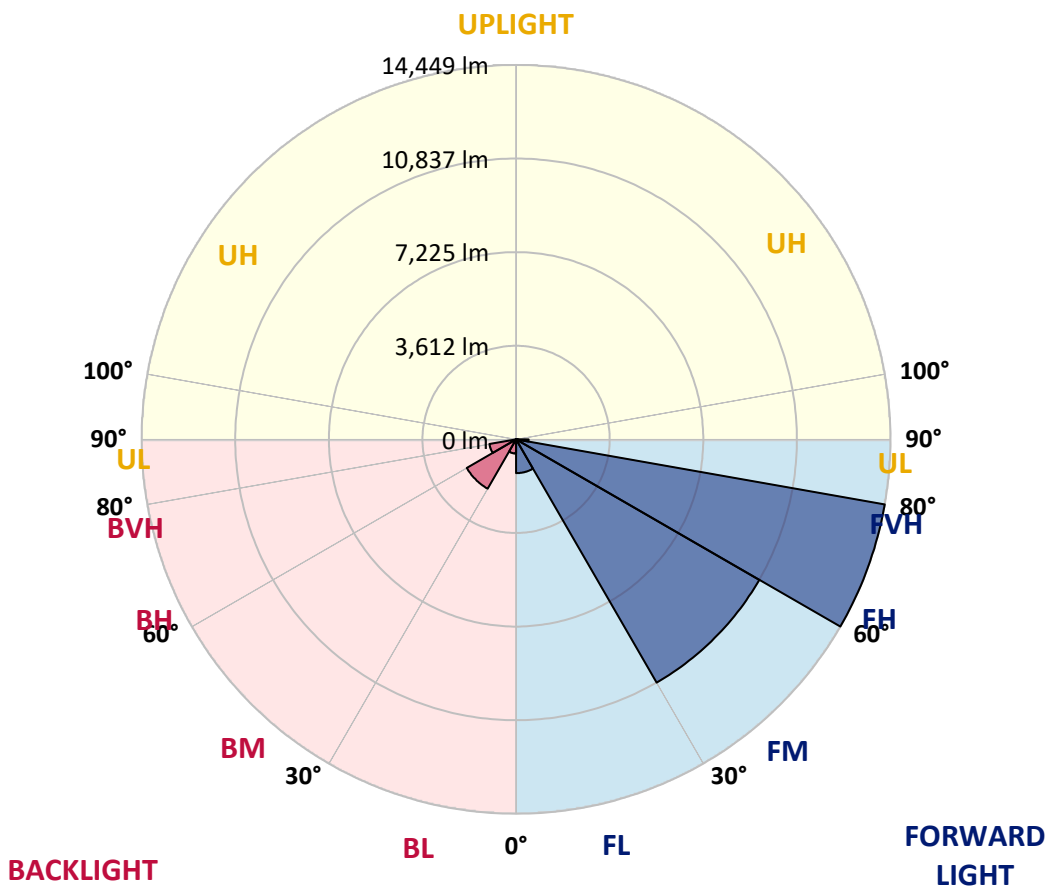
CATALOG NUMBER: GWS-SA6F-740-U-SLR-W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1304.8	4.2			
FM (30°-60°)	10841.0	35.1			
FH (60°-80°)	14449.2	46.8			G5
FVH (80°-90°)	480.6	1.6			G3/500
BL (0°-30°)	546.7	1.8	B2/1000		
BM (30°-60°)	2197.9	7.1	B2/2500		
BH (60°-80°)	1044.4	3.4	B3/2500		G3/2500
BVH (80°-90°)	22.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5
2.5°	1637.6	1644.7	1651.9	1676.8	1694.7	1708.9	1712.5	1701.8	1676.8	1651.9	1616.2
5°	1587.6	1594.8	1619.8	1687.5	1755.3	1808.8	1826.7	1816.0	1755.3	1676.8	1594.8
7.5°	1584.1	1598.3	1659.0	1801.7	1948.0	2058.6	2087.1	2062.2	1948.0	1791.0	1623.3
10°	1712.5	1737.5	1826.7	2083.6	2351.1	2547.4	2625.9	2518.8	2336.9	2051.5	1776.7
12.5°	2047.9	2090.7	2261.9	2636.6	3050.4	3310.9	3417.9	3285.9	3000.5	2586.6	2151.3
15°	2575.9	2640.1	2897.0	3457.1	3945.9	4177.8	4213.5	4138.6	3806.8	3350.1	2765.0
17.5°	3321.6	3414.3	3813.9	4384.8	4738.0	4820.0	4809.3	4730.8	4488.2	4174.3	3621.3
20°	4213.5	4324.1	4716.6	5187.5	5223.2	5126.8	5073.3	5026.9	4944.9	4891.4	4459.7
22.5°	5112.6	5248.1	5658.4	5776.2	5455.1	5176.8	5044.8	5080.5	5201.8	5465.8	5291.0
25°	6008.1	6136.5	6521.8	6204.3	5562.1	5098.3	4930.6	5016.2	5305.2	5876.1	6100.8
27.5°	7053.4	7149.7	7378.1	6496.9	5579.9	5034.1	4870.0	5002.0	5355.2	6132.9	6989.2
30°	8141.6	8198.7	8088.1	6575.3	5519.3	4937.8	4809.3	5002.0	5440.8	6304.2	7656.4
32.5°	8940.8	8951.5	8591.1	6582.5	5487.2	4859.3	4752.2	4980.6	5522.9	6446.9	8302.1
35°	9764.9	9711.4	9072.8	6689.5	5572.8	4887.8	4795.0	5041.2	5651.3	6614.6	8869.4
37.5°	10599.8	10503.4	9611.5	6864.3	5794.0	5198.2	5141.1	5351.6	5858.2	6846.5	9493.8
40°	11456.0	11324.0	10171.6	7128.3	6286.4	6254.2	6450.5	6425.5	6425.5	7142.6	10135.9
42.5°	12501.4	12347.9	10999.3	7874.0	7435.2	8152.3	8687.4	8355.6	7742.0	7824.1	10970.8
45°	13882.1	13750.1	12433.6	9301.1	9236.9	10885.2	11605.9	10949.4	9422.4	9397.4	12365.8
47.5°	16090.5	16065.5	14720.5	10956.5	11441.7	14363.7	15755.1	14492.2	11338.3	11063.6	15005.9
50°	19194.4	19119.5	17571.1	12897.4	14064.0	18673.5	21156.7	19051.7	13653.7	13008.0	18541.5
52.5°	22690.8	22769.3	21563.4	15016.6	16850.4	23468.6	26925.7	24274.9	16169.0	15480.4	22990.5
55°	25983.8	26433.4	26115.9	17496.2	19572.6	28763.1	33262.0	30004.7	19283.6	18716.4	27978.2
57.5°	28559.8	29826.3	32052.6	21099.6	22772.9	34956.7	40336.9	36216.1	22919.2	23971.6	34767.6
60°	28702.5	30379.3	35549.0	28638.2	26890.1	40269.1	47401.0	42284.8	28634.7	32894.6	40087.1
62.5°	26551.1	28349.3	33272.7	32063.3	31374.7	44789.4	51025.8	46708.8	34257.4	38121.3	38510.2
65°	24089.4	25905.4	30732.5	28178.0	30853.8	44596.7	50105.3	46812.3	34767.6	34567.8	35688.1
67.5°	20368.2	21998.7	26369.2	24942.1	28438.5	42445.4	45852.6	43861.8	32031.2	32330.9	32830.3
70°	14866.8	16436.6	20493.1	20564.4	24835.0	38567.3	39398.5	39123.8	29498.1	29815.6	28388.5
72.5°	10738.9	12062.5	15562.5	16864.7	19825.9	32341.6	31767.2	32826.8	25309.5	26554.7	22801.4
75°	7720.6	8712.4	11416.8	14670.5	15715.9	24018.0	22740.8	25423.7	20307.6	22865.6	17143.0
77.5°	3132.5	3482.1	4491.8	9882.6	10328.6	16158.3	13921.3	18466.6	14477.9	15023.8	8309.3
80°	128.4	142.7	185.5	5101.9	7082.0	9090.6	7449.4	9871.9	9561.5	6050.9	1962.3
82.5°	14.3	14.3	32.1	1469.9	3100.4	5016.2	3510.7	5687.0	4841.4	2565.2	891.9
85°	3.6	3.6	7.1	167.7	727.8	802.7	474.5	1744.6	2251.2	1048.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.8	32.1	35.7	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°	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5
2.5°	1616.2	1598.3	1576.9	1555.5	1544.8	1516.3	1505.6	1498.5	1491.3	1494.9	1494.9
5°	1562.7	1523.4	1477.0	1430.7	1405.7	1377.1	1362.9	1355.7	1359.3	1373.6	1373.6
7.5°	1555.5	1480.6	1380.7	1320.1	1291.5	1270.1	1255.8	1248.7	1252.3	1270.1	1277.3
10°	1673.3	1541.3	1362.9	1259.4	1227.3	1205.9	1191.6	1180.9	1173.8	1188.1	1191.6
12.5°	1926.6	1744.6	1448.5	1252.3	1195.2	1166.7	1155.9	1134.5	1123.8	1131.0	1134.5
15°	2451.0	2137.1	1619.8	1280.8	1166.7	1134.5	1116.7	1098.9	1081.0	1077.5	1081.0
17.5°	3136.0	2686.5	1880.2	1348.6	1145.2	1106.0	1081.0	1056.1	1031.1	1027.5	1023.9
20°	3985.2	3360.8	2244.1	1455.6	1127.4	1081.0	1045.3	1009.7	977.6	966.9	966.9
22.5°	4759.4	4174.3	2711.5	1587.6	1102.4	1045.3	1002.5	959.7	924.0	906.2	902.6
25°	5704.8	5037.6	3271.6	1741.1	1066.8	999.0	952.6	909.8	874.1	852.7	845.6
27.5°	6657.4	5947.4	3906.7	1940.9	1023.9	952.6	909.8	870.5	831.3	806.3	799.2
30°	7581.4	6928.5	4620.2	2190.6	991.8	906.2	870.5	831.3	795.6	756.4	745.7
32.5°	8573.3	7931.1	5419.4	2468.9	966.9	874.1	834.9	799.2	752.8	717.1	699.3
35°	9529.4	8965.7	6300.6	2740.0	941.9	845.6	802.7	767.1	717.1	677.9	652.9
37.5°	10492.7	10018.2	7221.1	2904.1	906.2	806.3	767.1	738.5	681.4	635.1	606.5
40°	11513.1	11106.4	8216.5	2836.4	874.1	763.5	742.1	710.0	645.8	592.2	556.6
42.5°	12633.4	12144.6	9229.7	2575.9	845.6	727.8	706.4	674.3	613.7	549.4	503.1
45°	14042.6	13282.7	10061.0	2183.5	859.8	692.1	649.3	642.2	585.1	503.1	446.0
47.5°	16465.1	15030.9	10706.8	1930.1	956.2	652.9	602.9	620.8	560.1	456.7	392.5
50°	20172.0	17927.9	11309.7	1912.3	1102.4	635.1	560.1	606.5	535.2	410.3	346.1
52.5°	23704.1	20871.3	11695.0	2069.3	1230.9	681.4	517.3	588.7	517.3	378.2	314.0
55°	27082.7	22569.5	11006.5	2183.5	1352.2	820.6	485.2	560.1	495.9	360.3	303.3
57.5°	30725.4	23325.9	8666.0	2415.4	1437.8	938.3	492.3	517.3	467.4	349.6	299.7
60°	31813.5	22359.0	5230.3	2718.6	1391.4	974.0	545.9	460.2	428.1	328.2	289.0
62.5°	30122.4	20065.0	3086.1	2476.0	1352.2	920.5	624.4	424.6	388.9	299.7	267.6
65°	27592.9	16950.3	2012.2	2090.7	1434.2	820.6	663.6	406.7	353.2	271.1	235.5
67.5°	24703.0	13653.7	1409.3	1234.4	1323.6	738.5	560.1	403.2	317.5	228.3	192.7
70°	20807.1	10225.1	991.8	817.0	1102.4	656.5	435.3	392.5	278.3	185.5	149.8
72.5°	16076.2	6400.5	738.5	528.0	784.9	535.2	346.1	331.8	224.8	153.4	114.2
75°	11855.6	3649.8	520.9	381.7	517.3	406.7	256.9	235.5	192.7	146.3	103.5
77.5°	6190.0	1826.7	324.7	292.6	296.1	253.3	185.5	171.3	178.4	146.3	96.3
80°	1188.1	363.9	196.2	214.1	160.5	160.5	135.6	142.7	157.0	117.7	82.1
82.5°	495.9	78.5	107.0	121.3	99.9	110.6	110.6	114.2	110.6	85.6	60.7
85°	0.0	0.0	46.4	49.9	67.8	67.8	57.1	57.1	57.1	49.9	35.7
87.5°	0.0	0.0	0.0	0.0	3.6	10.7	21.4	25.0	28.5	21.4	14.3
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5
2.5°	1491.3	1484.2	1494.9	1502.0	1509.2	1509.2	1502.0	1494.9	1484.2	1494.9	1484.2
5°	1377.1	1387.9	1405.7	1412.8	1420.0	1405.7	1398.6	1377.1	1359.3	1362.9	1355.7
7.5°	1288.0	1298.7	1320.1	1334.3	1334.3	1327.2	1305.8	1284.4	1255.8	1255.8	1252.3
10°	1205.9	1220.2	1245.1	1263.0	1270.1	1263.0	1241.6	1213.0	1188.1	1188.1	1177.4
12.5°	1138.1	1155.9	1184.5	1209.5	1216.6	1209.5	1188.1	1159.5	1131.0	1131.0	1123.8
15°	1081.0	1102.4	1134.5	1163.1	1173.8	1163.1	1138.1	1102.4	1073.9	1077.5	1066.8
17.5°	1027.5	1045.3	1088.2	1120.3	1131.0	1120.3	1088.2	1041.8	1013.2	1020.4	1013.2
20°	966.9	988.3	1031.1	1066.8	1077.5	1066.8	1031.1	981.1	952.6	952.6	956.2
22.5°	902.6	924.0	966.9	991.8	1006.1	995.4	959.7	913.3	884.8	884.8	888.4
25°	845.6	856.3	888.4	913.3	916.9	906.2	877.7	842.0	820.6	831.3	834.9
27.5°	792.0	792.0	806.3	820.6	817.0	806.3	795.6	767.1	763.5	774.2	784.9
30°	735.0	717.1	710.0	699.3	695.7	692.1	702.8	702.8	710.0	724.3	735.0
32.5°	685.0	649.3	617.2	585.1	567.3	581.5	610.1	635.1	660.0	681.4	692.1
35°	627.9	570.8	517.3	474.5	446.0	467.4	513.8	560.1	602.9	631.5	649.3
37.5°	570.8	488.8	424.6	371.0	349.6	367.5	417.4	481.6	545.9	581.5	606.5
40°	510.2	406.7	331.8	289.0	267.6	285.4	335.4	399.6	485.2	531.6	563.7
42.5°	449.5	335.4	267.6	224.8	214.1	224.8	264.0	328.2	421.0	478.1	520.9
45°	388.9	278.3	214.1	182.0	171.3	182.0	214.1	267.6	360.3	424.6	474.5
47.5°	335.4	235.5	178.4	149.8	142.7	153.4	178.4	224.8	303.3	367.5	424.6
50°	292.6	206.9	153.4	128.4	121.3	132.0	153.4	189.1	256.9	314.0	374.6
52.5°	264.0	192.7	135.6	110.6	107.0	114.2	132.0	160.5	217.6	267.6	324.7
55°	256.9	192.7	124.9	99.9	96.3	103.5	117.7	139.1	189.1	231.9	281.9
57.5°	264.0	206.9	117.7	85.6	82.1	89.2	103.5	121.3	164.1	199.8	246.2
60°	264.0	210.5	103.5	67.8	64.2	71.4	85.6	107.0	146.3	174.8	214.1
62.5°	239.0	192.7	85.6	53.5	46.4	53.5	71.4	89.2	128.4	157.0	189.1
65°	206.9	164.1	71.4	39.2	32.1	39.2	57.1	74.9	110.6	135.6	171.3
67.5°	167.7	124.9	53.5	28.5	21.4	28.5	42.8	60.7	92.8	117.7	153.4
70°	124.9	89.2	42.8	25.0	21.4	25.0	39.2	57.1	82.1	107.0	142.7
72.5°	92.8	60.7	35.7	25.0	17.8	25.0	35.7	53.5	78.5	103.5	135.6
75°	78.5	49.9	32.1	21.4	17.8	21.4	32.1	49.9	71.4	96.3	128.4
77.5°	74.9	46.4	28.5	17.8	14.3	17.8	28.5	42.8	64.2	89.2	124.9
80°	64.2	39.2	25.0	14.3	10.7	14.3	25.0	35.7	49.9	67.8	96.3
82.5°	49.9	32.1	17.8	7.1	3.6	7.1	17.8	21.4	32.1	39.2	57.1
85°	32.1	17.8	7.1	0.0	0.0	0.0	7.1	14.3	14.3	17.8	28.5
87.5°	14.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	3.6	7.1	10.7
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5	1605.5
2.5°	1505.6	1509.2	1516.3	1527.0	1552.0	1573.4	1594.8	1623.3	1637.6	1637.6
5°	1362.9	1366.4	1370.0	1384.3	1420.0	1448.5	1494.9	1552.0	1580.5	1587.6
7.5°	1252.3	1259.4	1266.5	1277.3	1312.9	1352.2	1412.8	1519.9	1573.4	1584.1
10°	1188.1	1198.8	1213.0	1234.4	1266.5	1309.4	1412.8	1605.5	1694.7	1712.5
12.5°	1138.1	1155.9	1170.2	1195.2	1234.4	1302.2	1509.2	1848.1	2005.1	2047.9
15°	1088.2	1109.6	1131.0	1155.9	1198.8	1327.2	1694.7	2283.4	2543.8	2575.9
17.5°	1038.2	1063.2	1091.7	1120.3	1173.8	1387.9	1987.2	2886.3	3250.2	3321.6
20°	981.1	1013.2	1052.5	1088.2	1148.8	1484.2	2394.0	3603.4	4060.1	4213.5
22.5°	920.5	959.7	1006.1	1052.5	1120.3	1601.9	2886.3	4374.0	5012.7	5112.6
25°	870.5	909.8	952.6	999.0	1073.9	1744.6	3482.1	5330.2	5911.7	6008.1
27.5°	824.1	863.4	902.6	945.5	1027.5	1930.1	4199.2	6347.0	6953.5	7053.4
30°	774.2	820.6	859.8	902.6	984.7	2158.5	5026.9	7474.4	8048.8	8141.6
32.5°	731.4	777.8	817.0	859.8	952.6	2408.2	5897.5	8473.4	8940.8	8940.8
35°	695.7	745.7	774.2	831.3	927.6	2568.8	6721.6	9426.0	9779.2	9764.9
37.5°	656.5	717.1	738.5	777.8	895.5	2586.6	7495.8	10432.1	10692.5	10599.8
40°	617.2	681.4	713.5	735.0	859.8	2440.3	8344.9	11356.1	11577.3	11456.0
42.5°	581.5	631.5	677.9	702.8	838.4	2183.5	9026.4	12344.4	12608.4	12501.4
45°	545.9	588.7	617.2	663.6	852.7	2005.1	9611.5	13496.8	13960.6	13882.1
47.5°	510.2	545.9	563.7	635.1	949.0	1923.0	9968.3	15280.6	16154.7	16090.5
50°	470.9	513.8	513.8	627.9	1091.7	1951.6	10278.7	17863.7	19215.8	19194.4
52.5°	431.7	478.1	470.9	681.4	1202.3	2083.6	10631.9	20143.5	22494.6	22690.8
55°	392.5	435.3	442.4	788.5	1266.5	2197.7	9265.4	21103.2	25295.3	25983.8
57.5°	349.6	374.6	460.2	870.5	1245.1	2529.5	6347.0	21278.0	27082.7	28559.8
60°	303.3	324.7	520.9	852.7	1177.4	2336.9	3995.9	19708.2	26829.4	28702.5
62.5°	264.0	299.7	549.4	752.8	1198.8	2026.5	2547.4	16796.9	24414.0	26551.1
65°	231.9	289.0	499.5	681.4	1213.0	1373.6	1719.7	13664.4	22055.8	24089.4
67.5°	206.9	321.1	410.3	606.5	1041.8	966.9	1180.9	10617.6	18545.1	20368.2
70°	189.1	328.2	335.4	520.9	806.3	620.8	777.8	7146.2	12783.2	14866.8
72.5°	171.3	242.6	253.3	417.4	520.9	378.2	503.1	4088.6	9318.9	10738.9
75°	164.1	164.1	174.8	271.1	289.0	274.7	324.7	2440.3	6682.4	7720.6
77.5°	153.4	124.9	110.6	174.8	157.0	196.2	192.7	1084.6	2897.0	3132.5
80°	121.3	89.2	74.9	110.6	107.0	132.0	114.2	89.2	132.0	128.4
82.5°	74.9	57.1	53.5	67.8	60.7	67.8	53.5	14.3	14.3	14.3
85°	35.7	32.1	28.5	28.5	32.1	28.5	21.4	7.1	3.6	3.6
87.5°	17.8	17.8	14.3	10.7	14.3	14.3	10.7	3.6	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

(END OF REPORT)