

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: STREETWORKS

Report Number: P386140

Luminaire Tested: GAW-SA1D-730-U-SLR-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386140  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA1D-730-U-SLR-HSS  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5594 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

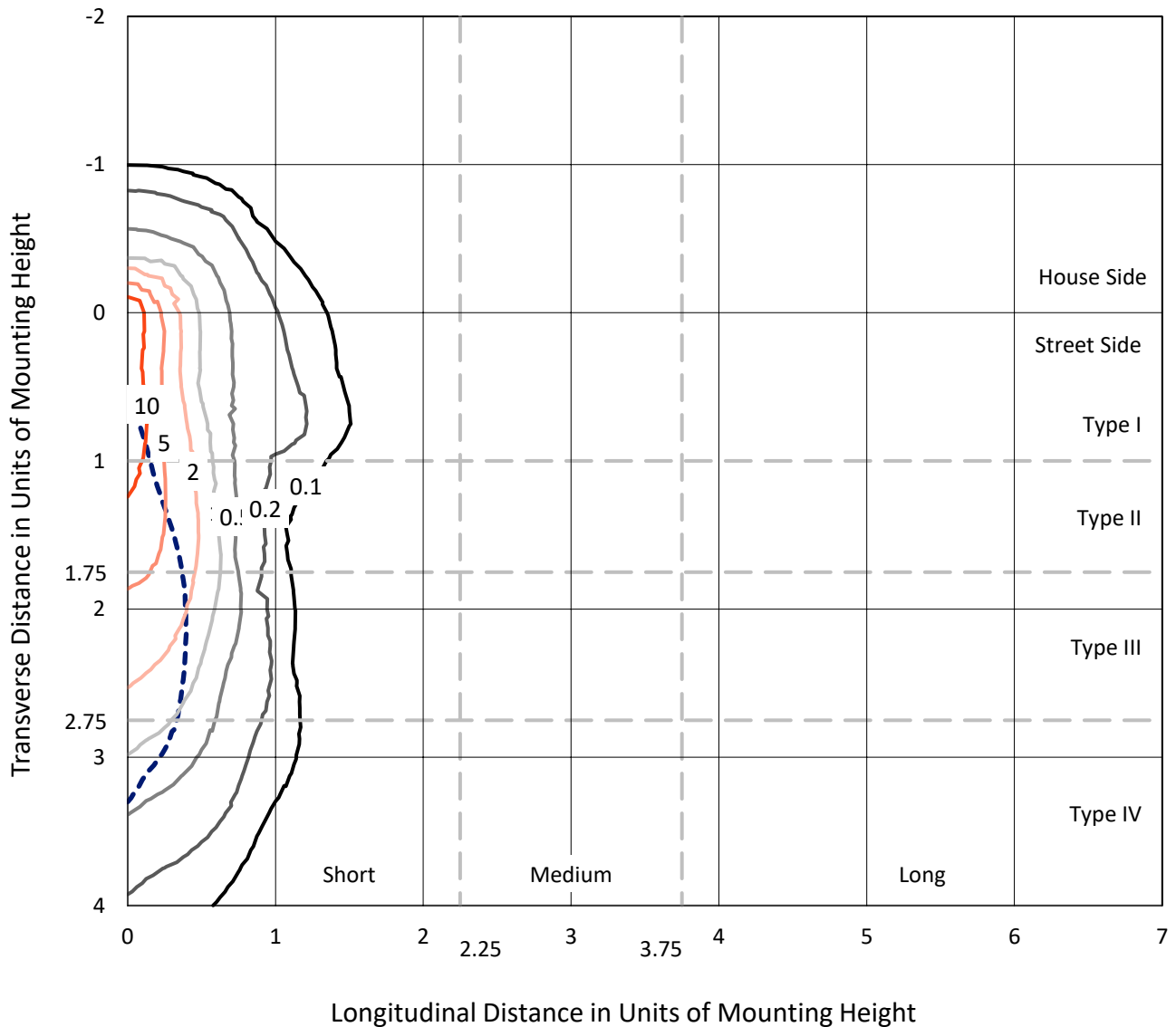
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

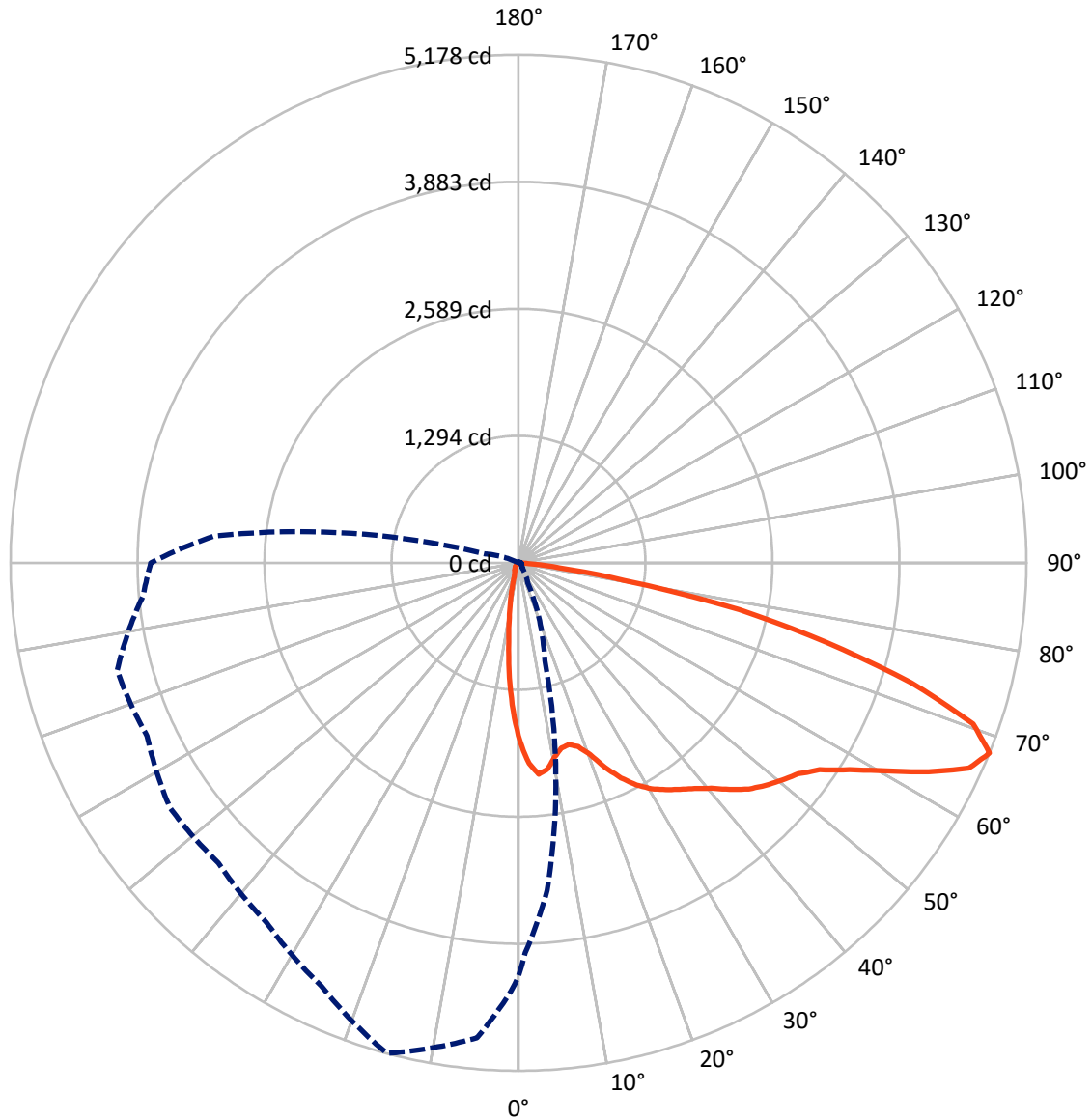
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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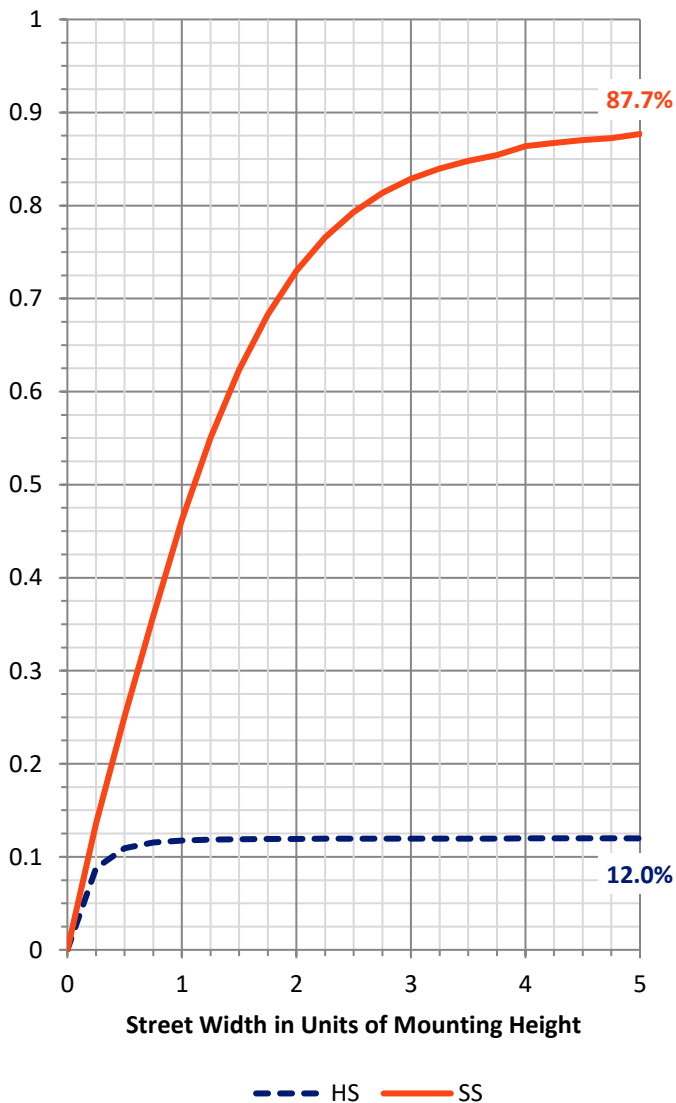
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	677.1	0.0	677.1
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	4916.9	0.0	4916.9
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	5594.0	0.0	5594.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.9	2.5
10°-20°	278.4	5.0
20°-30°	395.3	7.1
30°-40°	583.9	10.4
40°-50°	842.1	15.1
50°-60°	1182.1	21.1
60°-70°	1378.0	24.6
70°-80°	704.5	12.6
80°-90°	90.0	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°	5594.0	100.0
0°-180°	5594.0	100.0

**Coefficient of Utilization**



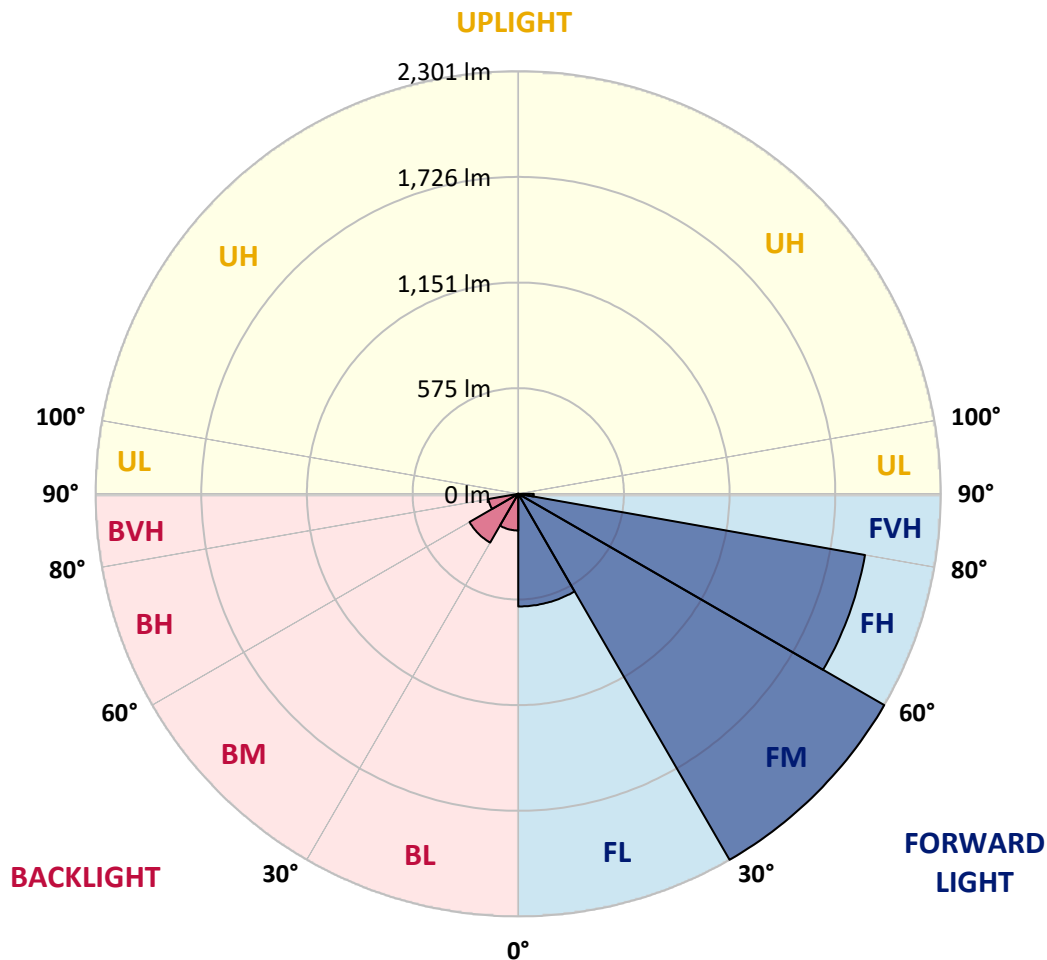
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	613.6	11.0			
FM (30°-60°)	2301.5	41.1			
FH (60°-80°)	1917.4	34.3			G2/5000
FVH (80°-90°)	84.5	1.5			G1/100
BL (0°-30°)	200.0	3.6	B1/500		
BM (30°-60°)	306.6	5.5	B1/1000		
BH (60°-80°)	165.0	3.0	B1/500		G1/500
BVH (80°-90°)	5.5	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-G2**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1822.2	1822.2	1822.2	1822.2	1822.2	1822.2	1822.2	1822.2	1822.2	1822.2	1822.2
2.5°	1995.3	1979.9	1963.0	1907.6	1856.2	1797.3	1749.4	1716.0	1674.1	1619.8	1606.0
5°	1981.0	1964.5	1911.3	1788.0	1680.2	1575.2	1474.0	1414.6	1341.0	1266.2	1247.7
7.5°	1837.1	1819.9	1743.0	1574.2	1429.0	1277.4	1145.9	1064.6	981.3	913.0	876.7
10°	1687.3	1668.5	1582.1	1377.3	1198.4	1061.4	964.9	887.3	808.6	735.4	677.1
12.5°	1584.3	1559.6	1465.8	1233.6	1077.8	984.8	894.7	801.7	695.1	616.7	552.6
15°	1541.1	1513.0	1413.8	1178.3	1035.1	926.0	808.6	694.3	569.5	479.7	420.8
17.5°	1574.4	1537.9	1431.6	1174.5	981.6	832.9	684.5	550.4	415.0	324.1	282.2
20°	1687.9	1639.9	1505.0	1173.5	916.7	722.4	534.3	382.7	273.5	220.0	198.0
22.5°	1866.5	1803.2	1610.5	1182.0	849.6	606.4	385.9	260.0	205.4	177.6	164.6
25°	2082.2	2008.8	1762.3	1211.9	790.8	493.5	280.4	205.4	173.3	152.9	142.0
27.5°	2287.3	2227.7	1954.2	1255.1	745.2	402.3	227.6	174.1	148.1	134.6	125.9
30°	2492.2	2417.2	2151.1	1306.5	690.4	340.5	200.1	158.7	132.8	118.5	112.9
32.5°	2641.1	2578.8	2305.4	1343.6	631.8	300.3	178.9	145.2	124.0	109.5	101.2
35°	2816.3	2745.8	2437.6	1351.8	594.2	274.8	160.9	130.7	107.6	94.6	85.9
37.5°	3005.5	2917.8	2590.2	1333.8	564.7	262.4	147.3	124.0	100.4	87.2	77.9
40°	3214.9	3115.8	2736.8	1307.8	535.9	258.1	137.0	119.0	94.9	81.4	71.8
42.5°	3435.4	3318.5	2863.7	1280.5	517.6	243.5	136.0	114.0	90.6	76.1	66.5
45°	3620.6	3502.2	2994.1	1271.5	504.6	227.6	140.5	110.5	87.7	71.8	62.5
47.5°	3768.2	3656.1	3127.7	1291.7	497.2	213.1	128.0	115.0	86.1	68.1	59.1
50°	3944.5	3817.5	3315.9	1351.8	486.3	198.5	115.8	131.7	86.1	65.7	56.2
52.5°	4165.5	4039.9	3525.7	1445.1	464.6	178.4	104.2	132.0	86.9	62.5	52.5
55°	4443.5	4352.3	3825.5	1547.4	429.9	148.7	90.1	113.4	83.7	56.7	49.0
57.5°	4710.1	4635.6	4098.7	1617.4	383.5	116.1	78.4	91.4	76.6	49.8	43.7
59°	4783.0	4701.6	4198.9	1620.6	348.8	101.2	72.6	75.5	75.0	46.6	40.5
60°	4783.0	4696.6	4227.8	1603.6	323.6	93.0	68.9	67.3	78.2	44.5	38.7
62.5°	4696.3	4574.9	4134.0	1488.8	264.0	79.2	60.2	55.7	70.2	40.0	34.2
65°	4516.1	4339.3	3814.3	1281.3	235.3	72.6	51.9	45.6	48.8	35.2	29.9
67.5°	4215.6	3976.0	3353.5	1035.1	223.9	70.8	44.8	38.7	36.8	30.2	26.2
70°	3686.3	3420.5	2794.0	813.9	214.1	70.0	37.6	32.6	29.7	25.4	22.3
72.5°	2683.0	2405.8	1983.6	636.3	208.3	71.6	30.2	27.3	24.4	19.9	17.2
75°	1534.7	1353.2	1114.9	420.3	177.6	68.4	23.3	22.8	17.5	14.3	11.9
77.5°	792.9	768.8	668.1	161.4	85.1	29.9	15.4	13.3	10.3	8.7	7.2
80°	342.1	338.4	292.8	46.6	22.5	16.7	8.7	5.6	4.8	3.7	2.9
82.5°	118.2	118.2	104.2	15.6	10.1	8.2	1.1	0.0	0.0	0.0	0.0
85°	23.9	26.8	18.8	0.0	3.4	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°	1822.2	1822.2	1822.2	1822.2	1822.2	1822.2	1822.2	1822.2	1822.2	1822.2	1822.2
2.5°	1589.3	1557.2	1555.1	1535.0	1509.8	1498.4	1491.8	1503.4	1517.7	1519.3	1540.8
5°	1233.6	1200.0	1214.0	1178.3	1185.4	1178.3	1166.6	1168.7	1175.1	1155.2	1179.8
7.5°	866.3	840.9	857.1	847.5	860.2	865.3	858.1	847.5	816.2	812.5	834.0
10°	653.0	624.1	606.9	588.9	592.8	601.1	598.4	590.7	570.8	571.9	592.6
12.5°	524.7	492.4	458.2	414.0	403.1	409.2	403.1	398.6	379.5	381.1	399.4
15°	398.1	371.5	335.8	300.3	280.9	282.8	265.8	253.9	242.0	227.6	238.8
17.5°	268.7	252.6	242.0	231.4	208.3	203.0	181.5	158.5	149.5	142.8	147.6
20°	190.3	181.5	177.3	176.8	163.5	156.9	136.0	121.6	117.1	115.8	118.7
22.5°	159.0	152.6	146.6	143.1	136.5	128.8	112.9	105.7	102.6	101.0	103.1
25°	138.3	133.6	127.2	121.4	118.7	110.5	99.1	93.8	91.7	90.1	91.2
27.5°	123.0	118.7	111.3	107.6	105.5	98.3	88.5	84.3	82.4	81.9	81.6
30°	110.8	106.8	99.9	95.7	92.0	85.6	79.8	75.5	73.7	73.1	72.6
32.5°	98.6	95.4	90.9	86.7	82.7	76.9	71.8	68.4	65.5	64.9	64.7
35°	83.2	80.0	77.6	77.4	73.7	68.1	64.4	59.9	57.5	56.7	57.0
37.5°	73.9	69.7	64.4	66.3	65.2	61.2	56.2	51.7	49.3	48.8	48.8
40°	68.1	63.6	57.5	54.3	57.5	56.7	48.8	44.3	41.9	41.6	41.1
42.5°	62.5	58.0	51.1	45.8	47.4	49.8	42.1	37.9	35.5	35.0	34.2
45°	58.6	53.8	46.1	40.0	36.8	41.9	36.0	30.7	29.4	28.4	27.8
47.5°	54.9	50.4	41.6	34.7	29.4	30.2	28.9	25.2	23.6	22.5	22.3
50°	51.7	46.9	37.6	29.7	24.4	22.3	23.3	19.9	18.6	17.5	17.0
52.5°	48.0	43.5	33.4	25.7	20.4	17.5	17.8	15.6	14.3	13.5	13.3
55°	45.1	40.5	29.9	22.5	18.0	14.3	12.7	12.2	11.4	10.9	10.6
57.5°	41.1	36.8	26.5	19.1	15.4	11.7	9.8	9.8	9.5	9.0	8.7
59°	38.7	35.0	24.4	17.2	14.0	10.1	8.7	9.0	8.7	8.2	8.0
60°	36.8	33.4	22.8	15.9	13.3	9.3	8.0	8.5	8.2	7.7	7.4
62.5°	32.6	30.2	19.6	13.3	11.7	7.4	6.6	7.2	7.2	6.9	6.6
65°	28.6	26.0	16.7	11.1	10.9	6.4	5.3	6.4	6.6	6.1	5.6
67.5°	24.9	22.3	14.6	9.0	10.1	5.0	4.0	5.3	7.2	5.6	5.0
70°	21.2	18.6	11.4	7.2	10.6	3.4	3.2	4.8	8.5	6.1	4.8
72.5°	16.4	14.3	8.0	5.3	11.4	2.4	2.4	4.0	9.5	6.6	4.5
75°	11.4	9.3	4.8	3.2	9.3	1.6	1.6	3.7	9.0	6.1	4.2
77.5°	6.6	5.0	1.6	0.3	4.8	0.0	0.3	2.7	6.4	3.7	1.9
80°	2.4	1.1	0.0	0.0	2.9	0.0	0.0	0.0	0.5	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1822.2	1822.2	1822.2	1822.2	1822.2	1822.2	1822.2	1822.2	1822.2	1822.2	1822.2
2.5°	1546.4	1582.1	1614.2	1662.7	1720.2	1786.5	1843.4	1904.7	1962.2	1986.0	2002.4
5°	1184.9	1229.1	1280.8	1352.1	1447.0	1563.8	1673.3	1797.1	1930.1	1996.6	2059.2
7.5°	837.7	882.8	946.9	1022.7	1137.4	1276.6	1419.7	1590.6	1770.8	1876.0	1979.7
10°	602.4	657.8	717.7	821.3	937.9	1069.9	1217.2	1408.0	1608.9	1725.5	1850.3
12.5°	410.0	473.0	563.7	679.8	816.8	946.1	1074.1	1256.2	1489.4	1604.9	1738.8
15°	245.9	280.9	376.8	511.2	679.2	840.4	980.6	1163.1	1411.7	1553.2	1692.4
17.5°	151.6	167.8	220.0	330.2	506.7	710.5	902.6	1131.6	1422.9	1595.1	1744.1
20°	120.8	127.2	143.9	195.1	335.8	567.4	814.9	1125.2	1513.8	1725.8	1885.6
22.5°	104.9	111.0	122.2	141.8	211.2	424.8	731.7	1131.1	1644.1	1921.6	2108.2
25°	92.5	97.8	108.4	124.6	154.8	299.2	642.7	1157.1	1814.0	2164.6	2362.9
27.5°	82.7	87.2	97.0	111.8	132.8	208.8	541.7	1188.6	2015.4	2413.2	2608.8
30°	73.7	77.6	86.4	100.2	115.3	160.6	430.9	1210.1	2217.1	2608.8	2784.5
32.5°	66.0	68.9	76.9	88.5	100.2	128.0	327.6	1206.6	2366.8	2771.5	2910.9
35°	58.0	61.0	67.8	77.9	87.2	105.7	257.6	1142.2	2497.2	2940.3	3055.6
37.5°	49.3	53.0	59.6	68.6	75.0	93.0	208.3	1064.6	2629.5	3133.3	3217.0
40°	41.9	45.6	51.4	61.2	65.2	88.2	160.1	970.0	2778.1	3349.0	3394.0
42.5°	34.7	38.2	44.3	52.7	61.5	76.1	118.5	861.8	2921.0	3533.4	3555.4
45°	28.1	31.5	37.9	46.4	65.7	63.1	91.7	746.0	3036.3	3686.9	3694.0
47.5°	22.3	25.4	32.1	43.7	61.2	50.4	65.5	655.1	3133.0	3806.7	3787.8
50°	17.2	19.9	26.8	50.1	53.5	41.6	49.6	624.9	3219.7	3880.9	3832.1
52.5°	13.5	15.9	22.0	46.9	41.6	34.5	41.6	653.3	3338.4	3942.3	3857.0
55°	10.9	13.3	17.2	26.8	28.4	29.2	35.5	679.8	3543.2	4086.5	4004.1
57.5°	9.0	11.4	14.0	18.8	21.5	24.6	31.5	682.7	3784.7	4326.1	4248.2
59°	8.2	10.3	12.7	16.7	18.8	22.5	29.7	666.8	3869.7	4413.3	4374.3
60°	7.7	9.8	11.9	15.4	17.5	21.2	28.6	651.7	3873.4	4410.1	4428.1
62.5°	6.6	8.7	10.6	13.0	14.8	18.0	25.7	595.8	3716.6	4265.7	4395.8
65°	5.8	7.7	9.5	11.1	12.7	16.2	23.3	493.7	3448.6	4032.7	4174.5
67.5°	5.3	6.6	8.7	9.8	11.4	14.3	20.7	351.9	3113.9	3747.8	3839.8
70°	4.8	6.4	8.0	9.0	10.3	12.5	17.8	202.2	2629.5	3330.7	3396.2
72.5°	4.5	6.1	7.2	8.5	9.3	11.1	16.2	95.1	1925.3	2668.2	2839.1
75°	4.0	5.6	6.6	8.0	8.7	10.1	13.8	45.6	1280.5	1930.9	2125.1
77.5°	2.4	4.5	6.1	7.2	7.7	8.7	11.4	26.2	817.3	1336.5	1574.2
80°	0.0	1.6	4.5	6.1	6.6	7.4	8.7	20.7	437.3	763.5	916.4
82.5°	0.0	0.0	3.2	4.8	4.5	5.0	6.6	13.0	197.2	499.0	562.4
85°	0.0	0.0	1.1	3.7	3.2	2.4	4.5	4.5	43.2	252.6	315.1
87.5°	0.0	0.0	0.0	0.3	1.6	1.1	1.9	0.5	0.3	18.8	76.3
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1822.2	1822.2	1822.2	1822.2	1822.2	1822.2	1822.2	1822.2	1822.2	1822.2
2.5°	2060.0	2079.6	2112.7	2128.3	2120.6	2088.0	2049.1	2009.3	1986.0	1995.3
5°	2186.6	2287.6	2345.9	2365.2	2332.9	2259.8	2164.1	2038.0	1993.2	1981.0
7.5°	2186.6	2376.6	2497.0	2518.2	2446.1	2302.7	2123.3	1926.4	1860.9	1837.1
10°	2109.8	2368.4	2536.2	2569.8	2469.1	2254.7	2014.4	1789.6	1712.0	1687.3
12.5°	2023.1	2301.6	2478.4	2524.8	2442.1	2207.0	1938.8	1697.1	1605.7	1584.3
15°	1969.8	2219.5	2365.8	2399.4	2364.5	2179.2	1920.8	1669.3	1561.7	1541.1
17.5°	1988.9	2155.9	2208.6	2228.2	2251.8	2169.4	1969.8	1730.3	1594.1	1574.4
20°	2060.7	2088.8	2061.5	2086.2	2149.8	2178.9	2086.7	1877.6	1714.1	1687.9
22.5°	2182.7	2054.1	1977.5	1987.3	2064.7	2210.5	2265.3	2088.0	1899.4	1866.5
25°	2324.7	2082.2	1930.9	1922.1	2001.6	2252.1	2428.6	2317.0	2118.5	2082.2
27.5°	2503.3	2145.3	1921.4	1912.6	1979.7	2291.0	2564.3	2543.3	2349.3	2287.3
30°	2641.1	2207.3	1949.7	1929.6	2001.6	2318.1	2673.2	2735.5	2533.3	2492.2
32.5°	2740.0	2280.4	1995.8	1966.7	2063.7	2364.7	2757.2	2911.4	2703.4	2641.1
35°	2815.2	2359.9	2070.3	2022.3	2149.0	2435.5	2835.9	3098.8	2884.4	2816.3
37.5°	2885.7	2471.5	2186.6	2129.4	2282.8	2549.4	2919.1	3311.3	3086.9	3005.5
40°	2984.1	2597.9	2366.0	2315.2	2507.8	2704.7	3023.0	3532.9	3317.2	3214.9
42.5°	3082.4	2733.6	2549.7	2563.5	2788.5	2893.4	3157.1	3767.2	3544.6	3435.4
45°	3172.2	2873.5	2811.3	2874.9	3049.0	3100.4	3290.4	3902.6	3726.1	3620.6
47.5°	3252.2	3048.5	3071.2	3240.6	3345.3	3287.8	3390.1	4019.5	3861.3	3768.2
50°	3345.3	3274.8	3413.9	3653.5	3686.3	3457.4	3480.7	4157.8	4019.2	3944.5
52.5°	3447.0	3513.3	3793.4	4004.6	3994.0	3641.6	3571.9	4312.8	4235.7	4165.5
55°	3562.6	3706.0	4127.6	4333.2	4324.2	3847.2	3722.9	4504.4	4507.1	4443.5
57.5°	3734.0	3871.9	4354.4	4599.1	4614.2	4084.7	3978.9	4719.1	4752.5	4710.1
59°	3857.0	3979.4	4444.3	4710.1	4771.6	4268.3	4166.0	4843.7	4821.7	4783.0
60°	3948.2	4047.8	4488.8	4768.1	4863.0	4392.9	4304.1	4916.8	4829.9	4783.0
62.5°	4173.7	4196.8	4569.1	4833.9	4968.2	4669.5	4692.6	5041.4	4772.9	4696.3
65°	4278.9	4290.8	4568.0	4716.2	4866.4	4885.0	5045.1	5045.1	4633.8	4516.1
67.5°	4234.9	4177.4	4341.5	4326.1	4476.1	4757.0	5177.6	4860.1	4367.7	4215.6
70°	3877.2	3655.9	3583.0	3589.6	3704.4	4137.7	4915.2	4315.8	3864.2	3686.3
72.5°	3226.0	2695.2	2515.2	2720.6	2750.6	3179.9	4188.8	3250.1	2849.7	2683.0
75°	2594.8	1899.9	1607.3	1824.1	1875.0	2327.1	3240.3	2024.2	1664.6	1534.7
77.5°	1864.1	1363.8	1153.3	1138.2	1204.0	1475.9	2299.3	1018.7	849.6	792.9
80°	1059.0	897.6	966.5	911.9	945.0	922.8	1092.4	446.8	366.0	342.1
82.5°	639.2	530.6	574.5	478.3	605.3	527.1	420.8	143.1	124.3	118.2
85°	415.8	289.9	151.1	101.2	208.6	336.8	94.1	39.0	29.9	23.9
87.5°	143.4	73.9	7.4	3.2	22.3	62.8	3.4	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

(END OF REPORT)