

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: P386476

Luminaire Tested: GAW-SA2A-827-U-SLR-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386476  
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-SA2A-827-U-SLR-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5299 lumens  
Efficiency: N/A  
Efficacy: 80.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

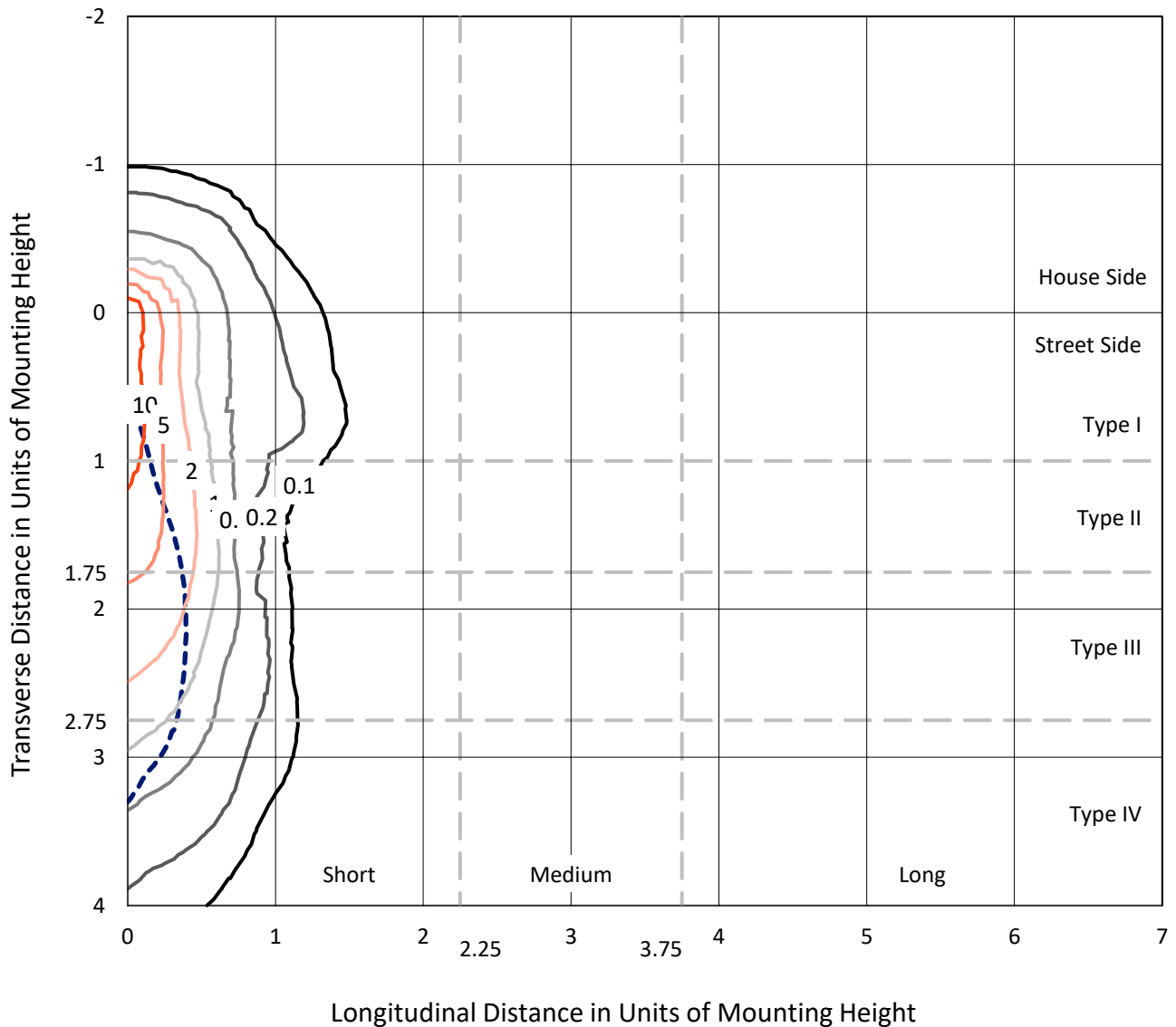
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

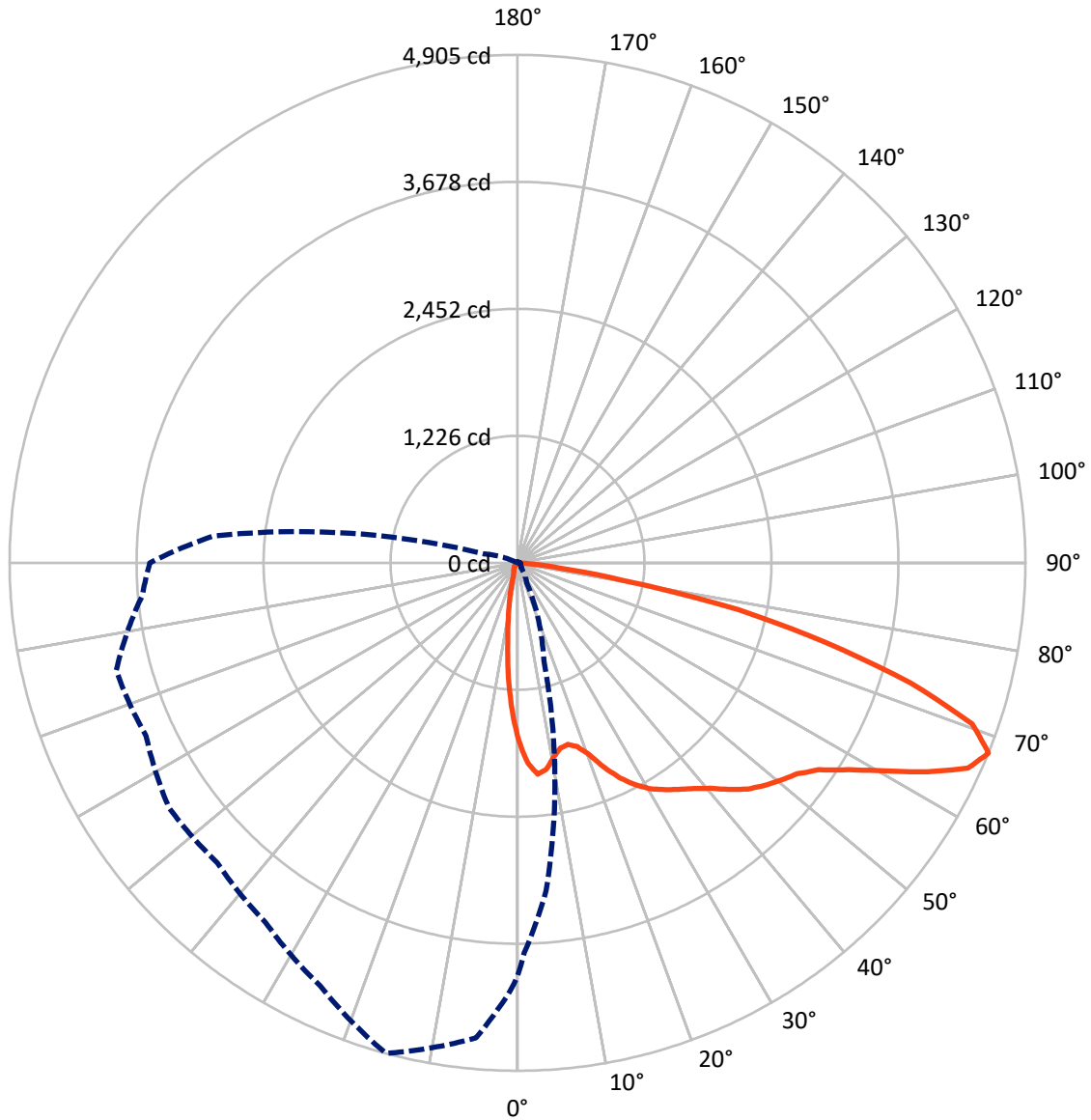
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.3 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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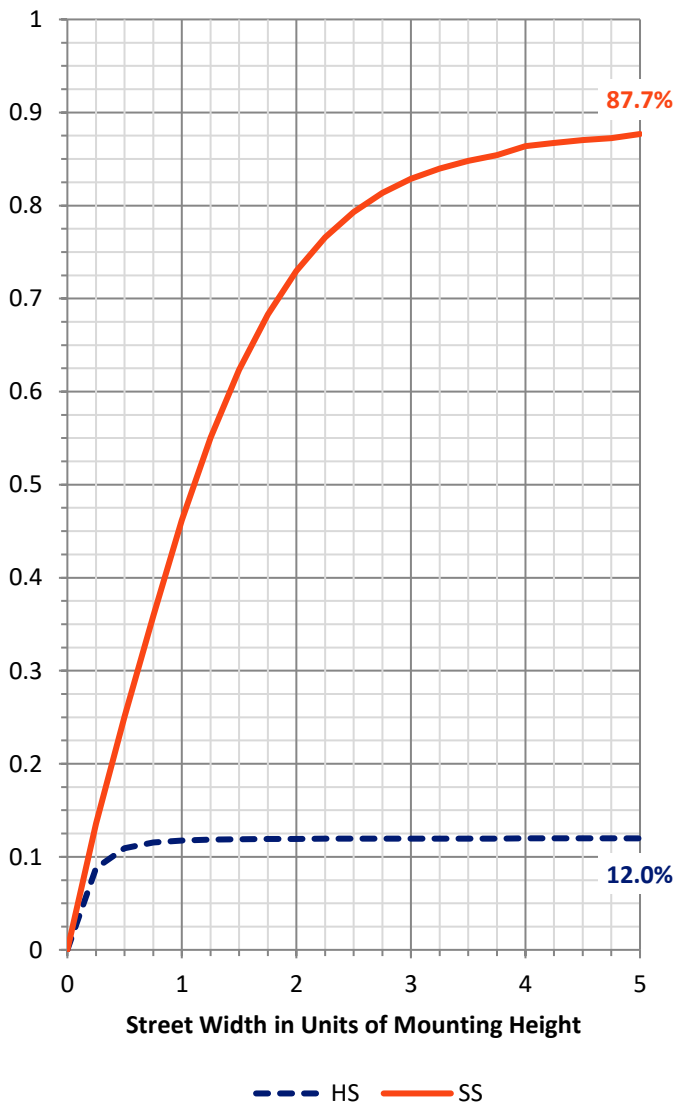
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	641.4	0.0	641.4
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	4657.6	0.0	4657.6
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	5299.0	0.0	5299.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.5	2.5
10°-20°	263.7	5.0
20°-30°	374.5	7.1
30°-40°	553.1	10.4
40°-50°	797.7	15.1
50°-60°	1119.8	21.1
60°-70°	1305.3	24.6
70°-80°	667.3	12.6
80°-90°	85.2	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°	5299.0	100.0
0°-180°	5299.0	100.0

**Coefficient of Utilization**

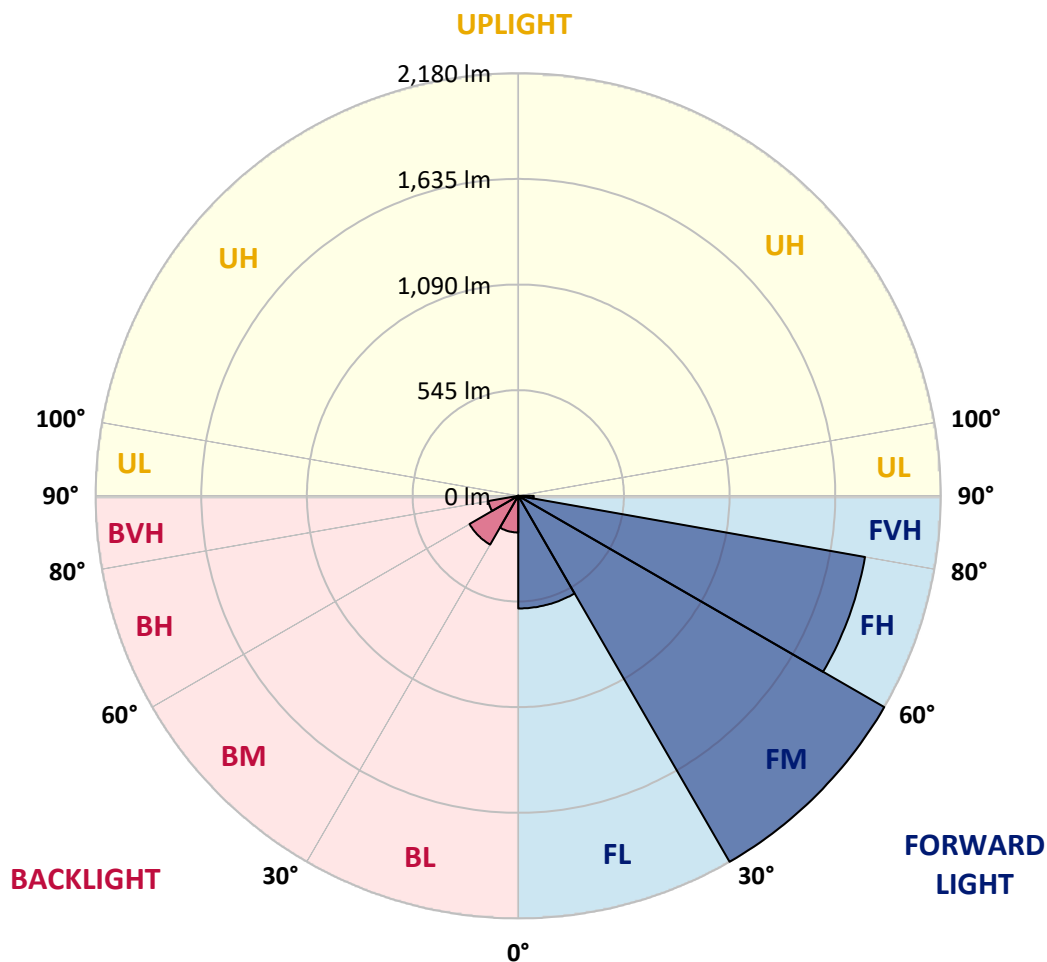


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	581.2	11.0			
FM (30°-60°)	2180.1	41.1			
FH (60°-80°)	1816.3	34.3			G2/5000
FVH (80°-90°)	80.0	1.5			G1/100
BL (0°-30°)	189.4	3.6	B1/500		
BM (30°-60°)	290.4	5.5	B1/1000		
BH (60°-80°)	156.3	2.9	B1/500		G1/500
BVH (80°-90°)	5.2	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°	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1
2.5°	1890.1	1875.5	1859.4	1807.0	1758.3	1702.5	1657.1	1625.5	1585.8	1534.3	1521.3
5°	1876.5	1860.9	1810.5	1693.8	1591.6	1492.2	1396.3	1340.0	1270.3	1199.5	1181.9
7.5°	1740.2	1723.9	1651.1	1491.2	1353.6	1210.0	1085.5	1008.4	929.6	864.8	830.4
10°	1598.4	1580.5	1498.7	1304.6	1135.2	1005.4	914.0	840.5	765.9	696.6	641.4
12.5°	1500.7	1477.4	1388.5	1168.6	1021.0	932.9	847.5	759.4	658.5	584.2	523.4
15°	1459.8	1433.2	1339.3	1116.1	980.6	877.1	765.9	657.7	539.5	454.4	398.6
17.5°	1491.4	1456.8	1356.1	1112.6	929.8	789.0	648.4	521.4	393.1	307.0	267.4
20°	1598.9	1553.4	1425.6	1111.6	868.3	684.3	506.1	362.5	259.1	208.4	187.5
22.5°	1768.1	1708.1	1525.6	1119.6	804.8	574.4	365.5	246.3	194.6	168.2	155.9
25°	1972.4	1902.9	1669.4	1148.0	749.1	467.4	265.6	194.6	164.2	144.8	134.6
27.5°	2166.7	2110.2	1851.2	1188.9	705.9	381.1	215.6	164.9	140.3	127.5	119.2
30°	2360.8	2289.7	2037.7	1237.6	654.0	322.6	189.5	150.4	125.8	112.2	106.9
32.5°	2501.8	2442.9	2183.8	1272.8	598.5	284.4	169.5	137.6	117.5	103.7	95.9
35°	2667.8	2601.0	2309.1	1280.5	562.8	260.3	152.4	123.8	101.9	89.6	81.3
37.5°	2847.0	2763.9	2453.6	1263.5	535.0	248.5	139.6	117.5	95.1	82.6	73.8
40°	3045.3	2951.5	2592.5	1238.9	507.6	244.5	129.8	112.7	89.9	77.1	68.0
42.5°	3254.2	3143.5	2712.7	1213.0	490.3	230.7	128.8	107.9	85.9	72.0	63.0
45°	3429.7	3317.5	2836.2	1204.5	478.0	215.6	133.1	104.7	83.1	68.0	59.2
47.5°	3569.5	3463.3	2962.8	1223.6	470.9	201.8	121.3	109.0	81.6	64.5	56.0
50°	3736.5	3616.2	3141.0	1280.5	460.7	188.0	109.7	124.8	81.6	62.3	53.2
52.5°	3945.8	3826.8	3339.8	1368.9	440.1	168.9	98.7	125.0	82.3	59.2	49.7
55°	4209.2	4122.8	3623.7	1465.8	407.2	140.8	85.4	107.4	79.3	53.7	46.4
57.5°	4461.7	4391.2	3882.6	1532.1	363.3	110.0	74.3	86.6	72.6	47.2	41.4
59°	4530.7	4453.7	3977.5	1535.1	330.4	95.9	68.8	71.5	71.0	44.2	38.4
60°	4530.7	4448.9	4004.8	1519.0	306.5	88.1	65.3	63.8	74.1	42.2	36.7
62.5°	4448.6	4333.7	3915.9	1410.3	250.0	75.1	57.0	52.7	66.5	37.9	32.4
65°	4277.9	4110.5	3613.2	1213.8	222.9	68.8	49.2	43.2	46.2	33.4	28.4
67.5°	3993.3	3766.3	3176.6	980.6	212.1	67.0	42.4	36.7	34.9	28.6	24.9
70°	3491.9	3240.2	2646.7	770.9	202.8	66.3	35.6	30.9	28.1	24.1	21.1
72.5°	2541.5	2278.9	1879.0	602.7	197.3	67.8	28.6	25.9	23.1	18.8	16.3
75°	1453.8	1281.8	1056.1	398.1	168.2	64.8	22.1	21.6	16.6	13.6	11.3
77.5°	751.1	728.3	632.9	152.9	80.6	28.4	14.6	12.6	9.8	8.3	6.8
80°	324.1	320.6	277.4	44.2	21.3	15.8	8.3	5.3	4.5	3.5	2.8
82.5°	112.0	112.0	98.7	14.8	9.5	7.8	1.0	0.0	0.0	0.0	0.0
85°	22.6	25.4	17.8	0.0	3.3	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°	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1
2.5°	1505.5	1475.1	1473.1	1454.0	1430.2	1419.4	1413.1	1424.1	1437.7	1439.2	1459.5
5°	1168.6	1136.7	1150.0	1116.1	1122.9	1116.1	1105.1	1107.1	1113.1	1094.3	1117.6
7.5°	820.6	796.5	811.9	802.8	814.9	819.6	812.9	802.8	773.2	769.7	790.0
10°	618.6	591.2	574.9	557.8	561.6	569.4	566.8	559.6	540.7	541.7	561.3
12.5°	497.1	466.4	434.0	392.1	381.8	387.6	381.8	377.6	359.5	361.0	378.3
15°	377.1	352.0	318.1	284.4	266.1	267.9	251.8	240.5	229.2	215.6	226.2
17.5°	254.6	239.2	229.2	219.2	197.3	192.3	172.0	150.1	141.6	135.3	139.8
20°	180.2	172.0	167.9	167.4	154.9	148.6	128.8	115.2	111.0	109.7	112.5
22.5°	150.6	144.6	138.8	135.6	129.3	122.0	106.9	100.2	97.2	95.6	97.7
25°	131.0	126.5	120.5	115.0	112.5	104.7	93.9	88.9	86.9	85.4	86.4
27.5°	116.5	112.5	105.4	101.9	99.9	93.1	83.8	79.8	78.1	77.6	77.3
30°	104.9	101.2	94.6	90.6	87.1	81.1	75.6	71.5	69.8	69.3	68.8
32.5°	93.4	90.4	86.1	82.1	78.3	72.8	68.0	64.8	62.0	61.5	61.3
35°	78.8	75.8	73.6	73.3	69.8	64.5	61.0	56.7	54.5	53.7	54.0
37.5°	70.0	66.0	61.0	62.8	61.8	58.0	53.2	49.0	46.7	46.2	46.2
40°	64.5	60.2	54.5	51.5	54.5	53.7	46.2	41.9	39.7	39.4	38.9
42.5°	59.2	55.0	48.5	43.4	44.9	47.2	39.9	35.9	33.6	33.1	32.4
45°	55.5	51.0	43.7	37.9	34.9	39.7	34.1	29.1	27.9	26.9	26.4
47.5°	52.0	47.7	39.4	32.9	27.9	28.6	27.4	23.8	22.3	21.3	21.1
50°	49.0	44.4	35.6	28.1	23.1	21.1	22.1	18.8	17.6	16.6	16.1
52.5°	45.4	41.2	31.6	24.4	19.3	16.6	16.8	14.8	13.6	12.8	12.6
55°	42.7	38.4	28.4	21.3	17.1	13.6	12.0	11.5	10.8	10.3	10.0
57.5°	38.9	34.9	25.1	18.1	14.6	11.0	9.3	9.3	9.0	8.5	8.3
59°	36.7	33.1	23.1	16.3	13.3	9.5	8.3	8.5	8.3	7.8	7.5
60°	34.9	31.6	21.6	15.1	12.6	8.8	7.5	8.0	7.8	7.3	7.0
62.5°	30.9	28.6	18.6	12.6	11.0	7.0	6.3	6.8	6.8	6.5	6.3
65°	27.1	24.6	15.8	10.5	10.3	6.0	5.0	6.0	6.3	5.8	5.3
67.5°	23.6	21.1	13.8	8.5	9.5	4.8	3.8	5.0	6.8	5.3	4.8
70°	20.1	17.6	10.8	6.8	10.0	3.3	3.0	4.5	8.0	5.8	4.5
72.5°	15.6	13.6	7.5	5.0	10.8	2.3	2.3	3.8	9.0	6.3	4.3
75°	10.8	8.8	4.5	3.0	8.8	1.5	1.5	3.5	8.5	5.8	4.0
77.5°	6.3	4.8	1.5	0.3	4.5	0.0	0.3	2.5	6.0	3.5	1.8
80°	2.3	1.0	0.0	0.0	2.8	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°	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1
2.5°	1464.8	1498.7	1529.1	1575.0	1629.5	1692.2	1746.2	1804.2	1858.7	1881.3	1896.8
5°	1122.4	1164.3	1213.3	1280.8	1370.7	1481.4	1585.1	1702.3	1828.3	1891.3	1950.6
7.5°	793.5	836.2	897.0	968.8	1077.5	1209.3	1344.8	1506.7	1677.4	1777.1	1875.3
10°	570.6	623.1	679.8	778.0	888.4	1013.4	1153.0	1333.8	1524.1	1634.5	1752.7
12.5°	388.4	448.1	534.0	643.9	773.7	896.2	1017.5	1189.9	1410.8	1520.3	1647.1
15°	233.0	266.1	357.0	484.3	643.4	796.0	928.8	1101.8	1337.3	1471.3	1603.1
17.5°	143.6	158.9	208.4	312.8	480.0	673.0	855.0	1071.9	1347.8	1511.0	1652.1
20°	114.5	120.5	136.3	184.8	318.1	537.5	771.9	1065.9	1433.9	1634.8	1786.1
22.5°	99.4	105.2	115.7	134.3	200.1	402.4	693.1	1071.4	1557.4	1820.3	1997.0
25°	87.6	92.6	102.7	118.0	146.6	283.4	608.8	1096.0	1718.4	2050.5	2238.3
27.5°	78.3	82.6	91.9	105.9	125.8	197.8	513.1	1125.9	1909.1	2286.0	2471.2
30°	69.8	73.6	81.8	94.9	109.2	152.1	408.2	1146.2	2100.2	2471.2	2637.7
32.5°	62.5	65.3	72.8	83.8	94.9	121.3	310.3	1143.0	2242.0	2625.4	2757.4
35°	55.0	57.7	64.3	73.8	82.6	100.2	244.0	1082.0	2365.5	2785.3	2894.5
37.5°	46.7	50.2	56.5	65.0	71.0	88.1	197.3	1008.4	2490.8	2968.0	3047.4
40°	39.7	43.2	48.7	58.0	61.8	83.6	151.6	918.8	2631.6	3172.4	3215.0
42.5°	32.9	36.1	41.9	50.0	58.2	72.0	112.2	816.4	2766.9	3347.1	3367.9
45°	26.6	29.9	35.9	43.9	62.3	59.7	86.9	706.7	2876.1	3492.4	3499.2
47.5°	21.1	24.1	30.4	41.4	58.0	47.7	62.0	620.6	2967.8	3605.9	3588.1
50°	16.3	18.8	25.4	47.4	50.7	39.4	46.9	591.9	3049.9	3676.2	3630.0
52.5°	12.8	15.1	20.8	44.4	39.4	32.6	39.4	618.8	3162.3	3734.4	3653.6
55°	10.3	12.6	16.3	25.4	26.9	27.6	33.6	643.9	3356.4	3871.0	3792.9
57.5°	8.5	10.8	13.3	17.8	20.3	23.3	29.9	646.7	3585.1	4097.9	4024.1
59°	7.8	9.8	12.0	15.8	17.8	21.3	28.1	631.6	3665.7	4180.5	4143.6
60°	7.3	9.3	11.3	14.6	16.6	20.1	27.1	617.3	3669.2	4177.5	4194.6
62.5°	6.3	8.3	10.0	12.3	14.1	17.1	24.4	564.3	3520.6	4040.7	4164.0
65°	5.5	7.3	9.0	10.5	12.0	15.3	22.1	467.7	3266.8	3820.0	3954.4
67.5°	5.0	6.3	8.3	9.3	10.8	13.6	19.6	333.4	2949.7	3550.2	3637.3
70°	4.5	6.0	7.5	8.5	9.8	11.8	16.8	191.5	2490.8	3155.0	3217.1
72.5°	4.3	5.8	6.8	8.0	8.8	10.5	15.3	90.1	1823.8	2527.5	2689.4
75°	3.8	5.3	6.3	7.5	8.3	9.5	13.1	43.2	1213.0	1829.1	2013.1
77.5°	2.3	4.3	5.8	6.8	7.3	8.3	10.8	24.9	774.2	1266.0	1491.2
80°	0.0	1.5	4.3	5.8	6.3	7.0	8.3	19.6	414.2	723.2	868.1
82.5°	0.0	0.0	3.0	4.5	4.3	4.8	6.3	12.3	186.8	472.7	532.7
85°	0.0	0.0	1.0	3.5	3.0	2.3	4.3	4.3	40.9	239.2	298.5
87.5°	0.0	0.0	0.0	0.3	1.5	1.0	1.8	0.5	0.3	17.8	72.3
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°	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1	1726.1
2.5°	1951.3	1969.9	2001.3	2016.1	2008.8	1977.9	1941.0	1903.4	1881.3	1890.1
5°	2071.3	2167.0	2222.2	2240.5	2209.9	2140.6	2050.0	1930.5	1888.1	1876.5
7.5°	2071.3	2251.3	2365.3	2385.4	2317.1	2181.3	2011.3	1824.8	1762.8	1740.2
10°	1998.5	2243.5	2402.4	2434.3	2338.9	2135.8	1908.1	1695.3	1621.7	1598.4
12.5°	1916.4	2180.3	2347.7	2391.6	2313.3	2090.6	1836.6	1607.6	1521.0	1500.7
15°	1866.0	2102.4	2241.0	2272.9	2239.8	2064.3	1819.5	1581.3	1479.4	1459.8
17.5°	1884.0	2042.2	2092.2	2110.7	2133.1	2055.0	1866.0	1639.0	1510.0	1491.4
20°	1952.1	1978.7	1952.8	1976.2	2036.4	2064.0	1976.7	1778.6	1623.7	1598.9
22.5°	2067.6	1945.8	1873.2	1882.5	1955.8	2093.9	2145.9	1977.9	1799.2	1768.1
25°	2202.1	1972.4	1829.1	1820.8	1896.1	2133.3	2300.5	2194.8	2006.8	1972.4
27.5°	2371.3	2032.2	1820.0	1811.7	1875.3	2170.2	2429.0	2409.2	2225.5	2166.7
30°	2501.8	2090.9	1846.9	1827.8	1896.1	2195.8	2532.2	2591.2	2399.7	2360.8
32.5°	2595.5	2160.2	1890.6	1863.0	1954.8	2240.0	2611.8	2757.9	2560.8	2501.8
35°	2666.8	2235.5	1961.1	1915.7	2035.7	2307.0	2686.4	2935.4	2732.3	2667.8
37.5°	2733.6	2341.2	2071.3	2017.1	2162.4	2415.0	2765.2	3136.7	2924.1	2847.0
40°	2826.7	2460.9	2241.3	2193.1	2375.6	2562.1	2863.6	3346.6	3142.2	3045.3
42.5°	2919.8	2589.5	2415.2	2428.3	2641.4	2740.8	2990.6	3568.5	3357.6	3254.2
45°	3004.9	2722.0	2663.0	2723.3	2888.2	2936.9	3116.9	3696.8	3529.6	3429.7
47.5°	3080.7	2887.7	2909.3	3069.7	3168.9	3114.4	3211.3	3807.5	3657.6	3569.5
50°	3168.9	3102.1	3233.9	3460.8	3491.9	3275.0	3297.1	3938.5	3807.2	3736.5
52.5°	3265.3	3328.0	3593.4	3793.4	3783.4	3449.5	3383.5	4085.4	4012.3	3945.8
55°	3374.7	3510.5	3909.9	4104.7	4096.2	3644.3	3526.6	4266.9	4269.4	4209.2
57.5°	3537.1	3667.7	4124.8	4356.5	4370.8	3869.3	3769.1	4470.2	4501.9	4461.7
59°	3653.6	3769.6	4209.9	4461.7	4519.9	4043.2	3946.3	4588.2	4567.4	4530.7
60°	3740.0	3834.4	4252.1	4516.7	4606.6	4161.2	4077.1	4657.5	4575.2	4530.7
62.5°	3953.6	3975.4	4328.2	4578.9	4706.2	4423.3	4445.1	4775.5	4521.2	4448.6
65°	4053.3	4064.6	4327.1	4467.5	4609.8	4627.4	4779.0	4779.0	4389.4	4277.9
67.5°	4011.6	3957.1	4112.5	4097.9	4240.0	4506.1	4904.5	4603.8	4137.4	3993.3
70°	3672.7	3463.1	3394.0	3400.3	3509.0	3919.5	4656.0	4088.2	3660.4	3491.9
72.5°	3055.9	2553.1	2382.6	2577.2	2605.5	3012.2	3967.9	3078.7	2699.4	2541.5
75°	2457.9	1799.7	1522.5	1727.9	1776.1	2204.4	3069.4	1917.4	1576.8	1453.8
77.5°	1765.8	1291.8	1092.5	1078.2	1140.5	1398.0	2178.0	965.0	804.8	751.1
80°	1003.1	850.3	915.5	863.8	895.2	874.1	1034.8	423.3	346.7	324.1
82.5°	605.5	502.6	544.3	453.1	573.4	499.3	398.6	135.6	117.7	112.0
85°	393.9	274.6	143.1	95.9	197.6	319.1	89.1	36.9	28.4	22.6
87.5°	135.8	70.0	7.0	3.0	21.1	59.5	3.3	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)