

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: P386334

Luminaire Tested: GAW-SA2A-727-U-SLL-HSS

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386334  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2A-727-U-SLL-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6029 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

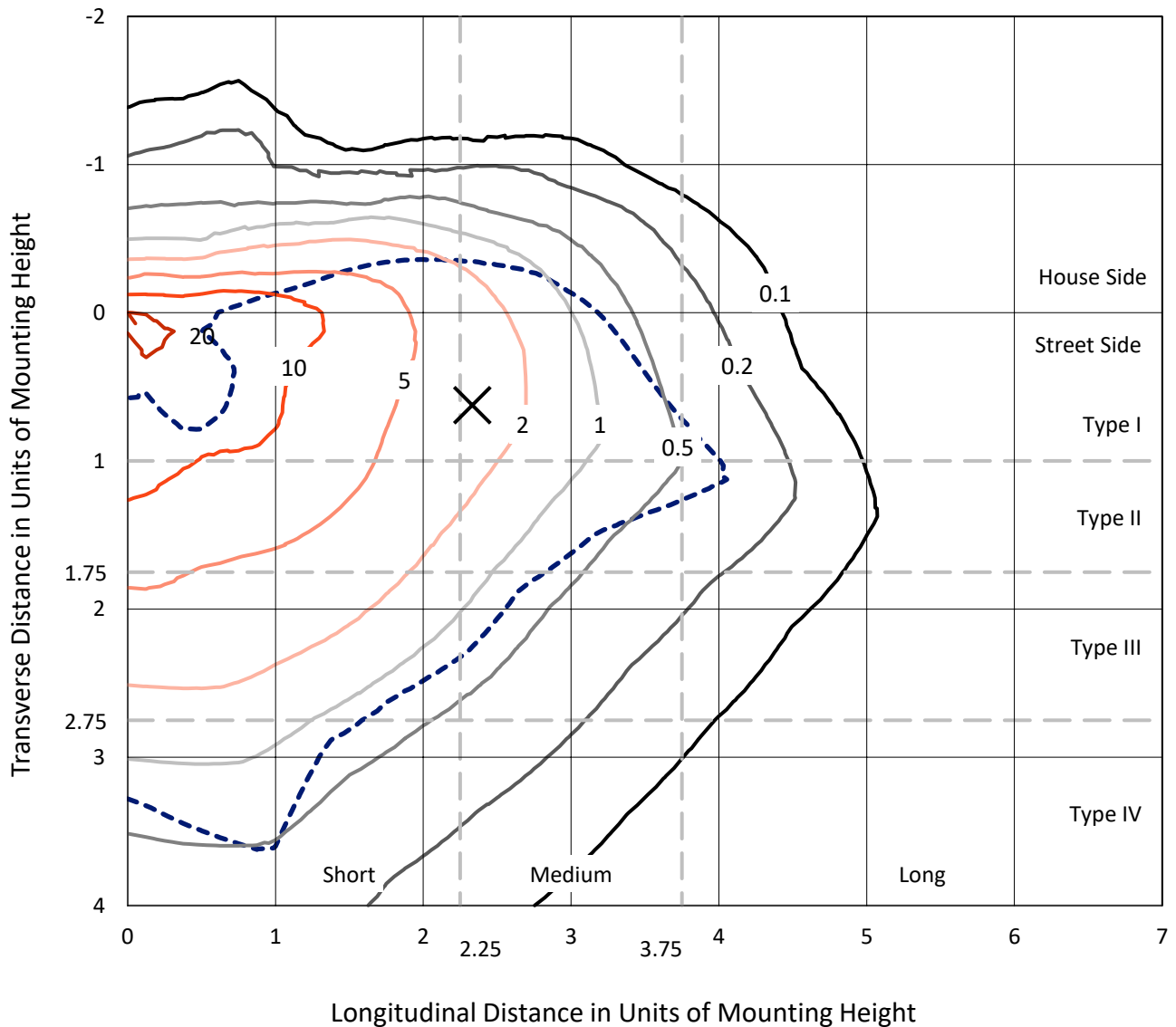
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

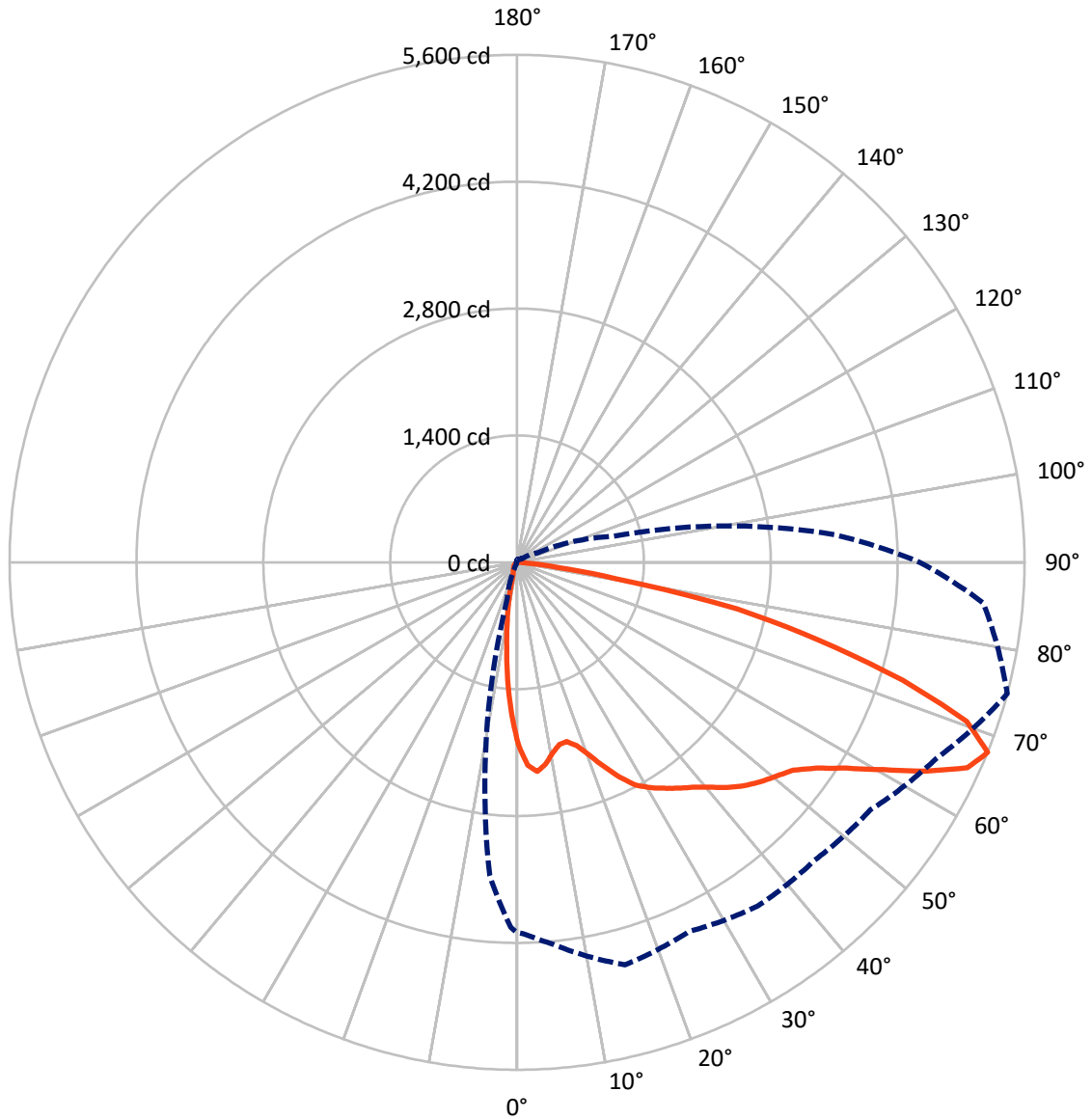
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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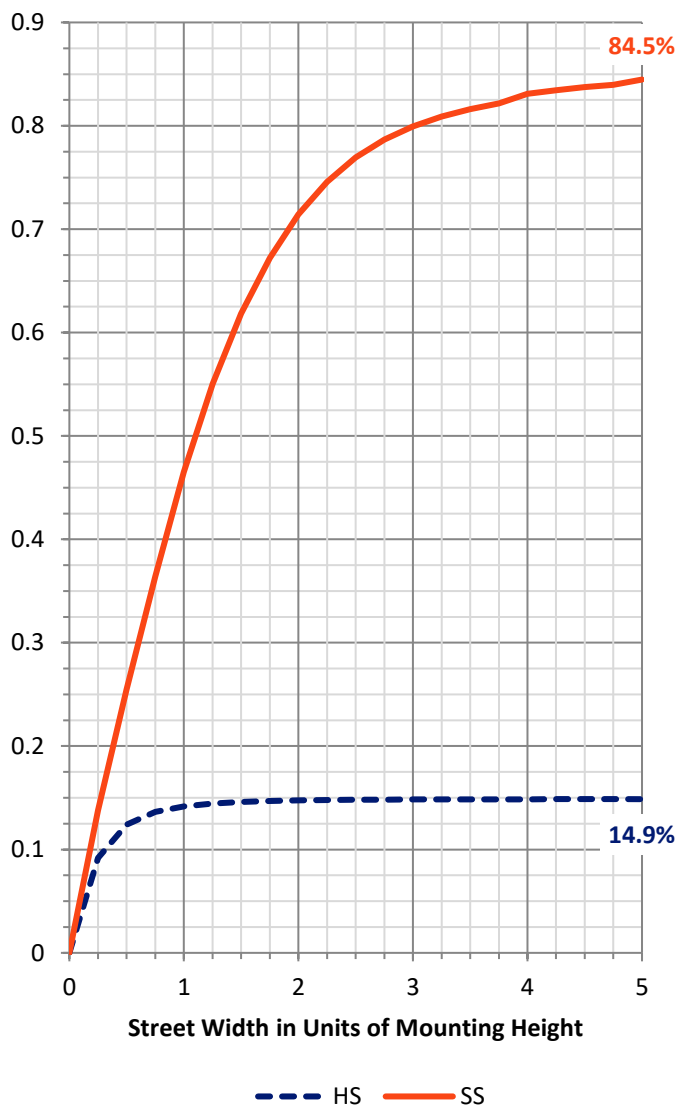
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	904.7	0.0	904.7
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	5124.3	0.0	5124.3
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	6029.0	0.0	6029.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	153.4	2.5
10°-20°	302.1	5.0
20°-30°	427.4	7.1
30°-40°	628.4	10.4
40°-50°	903.2	15.0
50°-60°	1271.4	21.1
60°-70°	1484.9	24.6
70°-80°	757.6	12.6
80°-90°	100.6	1.7
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°	6029.0	100.0
0°-180°	6029.0	100.0

**Coefficient of Utilization**

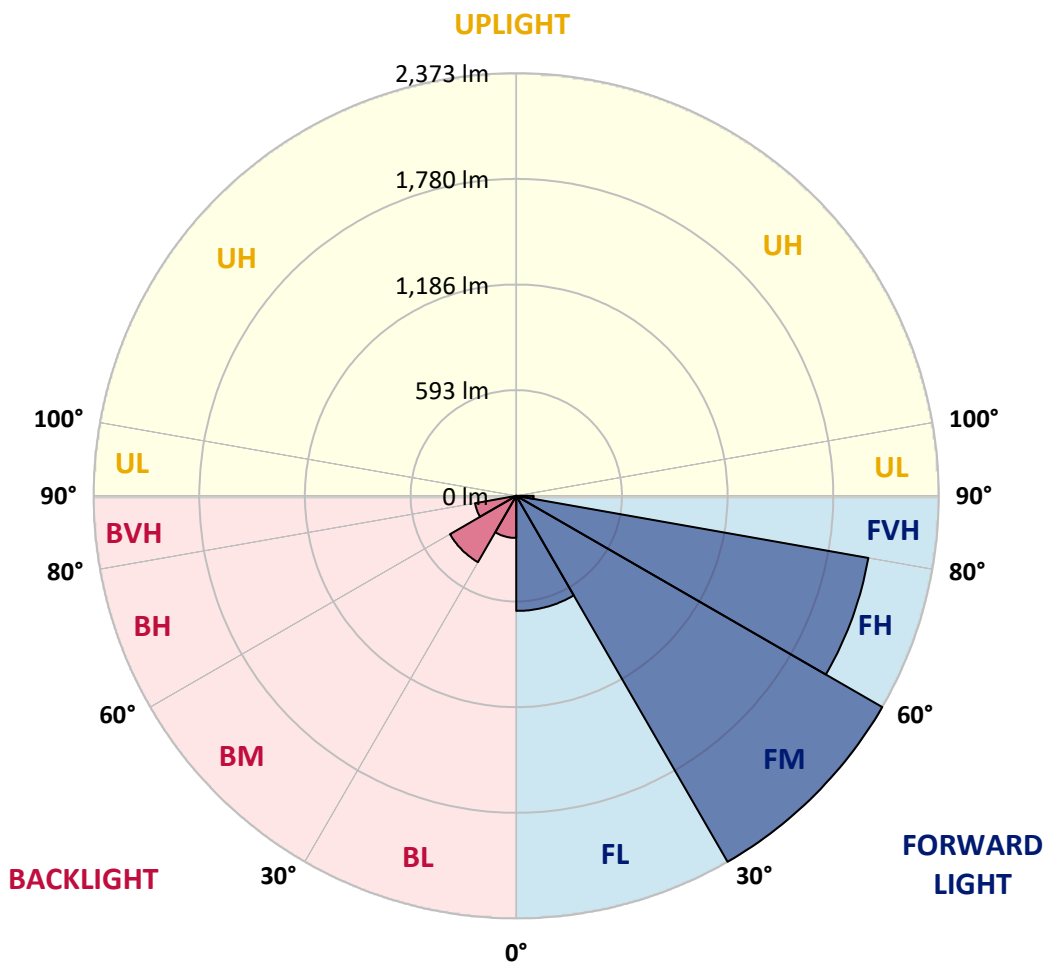


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	646.3	10.7			
FM (30°-60°)	2372.9	39.4			
FH (60°-80°)	2007.5	33.3			G2/5000
FVH (80°-90°)	97.6	1.6			G1/100
BL (0°-30°)	236.6	3.9	B1/500		
BM (30°-60°)	430.1	7.1	B1/1000		
BH (60°-80°)	235.0	3.9	B1/500		G1/500
BVH (80°-90°)	3.1	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2022.6	2022.6	2022.6	2022.6	2022.6	2022.6	2022.6	2022.6	2022.6	2022.6	2022.6
2.5°	2192.6	2196.0	2213.7	2254.8	2299.7	2303.1	2333.4	2302.2	2291.7	2241.4	2189.4
5°	2209.1	2222.3	2283.1	2403.9	2508.7	2542.4	2566.4	2505.3	2441.0	2318.2	2187.1
7.5°	2075.7	2097.7	2193.4	2420.2	2607.5	2690.4	2706.1	2610.4	2453.0	2250.8	2053.8
10°	1905.0	1930.1	2045.5	2324.2	2581.5	2723.5	2745.2	2619.8	2393.6	2141.7	1909.5
12.5°	1766.7	1796.1	1914.1	2216.3	2492.2	2649.2	2692.1	2588.1	2342.2	2064.3	1811.0
15°	1703.0	1736.7	1860.7	2146.6	2393.1	2516.7	2552.1	2507.3	2313.7	2052.0	1788.1
17.5°	1739.6	1776.2	1904.1	2152.6	2299.9	2352.8	2381.3	2399.6	2313.7	2126.0	1855.0
20°	1889.5	1928.9	2064.3	2213.4	2222.8	2203.1	2233.7	2297.9	2340.5	2266.5	2015.5
22.5°	2096.9	2143.2	2295.9	2317.7	2185.1	2110.6	2114.6	2215.4	2389.3	2444.7	2238.3
25°	2349.6	2406.2	2561.6	2473.0	2200.8	2055.5	2054.0	2147.4	2437.0	2623.2	2486.4
27.5°	2600.7	2662.9	2799.5	2662.7	2265.7	2045.5	2042.6	2126.9	2483.6	2782.0	2757.5
30°	2811.2	2871.7	2989.4	2800.0	2335.6	2068.9	2055.2	2148.9	2511.3	2885.1	2955.1
32.5°	2982.5	3031.1	3126.2	2894.6	2410.5	2114.3	2084.6	2207.7	2558.4	2972.2	3136.8
35°	3171.0	3222.2	3260.1	2984.5	2494.4	2179.7	2137.2	2301.1	2631.0	3060.8	3335.8
37.5°	3386.1	3436.9	3432.4	3066.8	2601.0	2287.9	2260.8	2449.0	2743.8	3148.5	3558.0
40°	3596.6	3648.6	3611.4	3156.7	2726.1	2466.5	2446.5	2671.2	2894.9	3260.7	3818.5
42.5°	3793.6	3849.9	3770.5	3241.9	2875.1	2691.5	2725.8	2957.4	3083.9	3398.9	4043.0
45°	3952.4	4009.8	3903.9	3324.7	3032.2	2964.5	3067.6	3274.4	3311.3	3515.7	4194.6
47.5°	4067.8	4122.1	3996.4	3407.5	3233.3	3298.4	3478.0	3606.9	3516.6	3617.1	4302.3
50°	4141.5	4183.8	4023.5	3511.2	3497.2	3688.0	3905.6	3968.4	3710.0	3708.5	4433.1
52.5°	4188.3	4207.5	4043.5	3619.4	3772.5	4112.1	4324.3	4344.0	3909.0	3809.1	4609.3
55°	4349.7	4365.1	4185.2	3750.5	4000.1	4483.7	4703.0	4684.7	4134.4	4005.8	4817.2
57.5°	4625.0	4641.3	4477.9	3939.0	4184.3	4713.3	4977.5	5010.3	4398.5	4282.3	5040.0
60°	4763.3	4793.5	4735.3	4177.8	4362.8	4860.1	5164.5	5269.3	4728.7	4646.7	5255.9
62.5°	4637.9	4681.9	4766.4	4442.5	4540.2	4940.9	5222.8	5362.2	5066.8	5071.4	5389.0
65°	4387.7	4422.8	4566.2	4587.6	4643.0	4930.9	5078.8	5232.5	5273.9	5461.5	5381.9
67.5°	4085.5	4098.7	4220.3	4599.0	4493.9	4630.4	4646.4	4760.1	5110.3	5599.8	5165.7
70°	3650.6	3657.7	3763.9	4216.6	3861.9	3891.9	3868.2	3891.3	4393.4	5263.1	4619.9
72.5°	2938.0	2956.0	3107.1	3501.8	2813.5	2726.9	2913.1	2902.8	3383.5	4446.5	3431.2
75°	2163.1	2194.3	2422.5	2820.6	1974.6	1786.1	1922.1	1958.4	2405.3	3439.5	2145.7
77.5°	1514.5	1537.7	1758.7	2073.5	1429.1	1277.2	1228.1	1271.2	1587.7	2488.2	1081.0
80°	872.5	881.1	1022.2	1197.2	963.0	1101.8	998.2	1027.9	951.3	1107.0	465.0
82.5°	570.9	572.3	627.5	712.6	599.8	696.9	515.8	659.5	585.2	444.7	151.4
85°	308.4	310.2	363.9	505.8	339.6	191.9	112.8	231.6	361.9	102.0	41.4
87.5°	34.0	31.1	109.7	183.9	94.2	17.4	6.0	26.0	58.0	6.6	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°	2022.6	2022.6	2022.6	2022.6	2022.6	2022.6	2022.6	2022.6	2022.6	2022.6	2022.6
2.5°	2162.9	2139.2	2080.0	2017.5	1967.2	1920.1	1872.7	1814.7	1769.9	1760.7	1745.9
5°	2116.6	2041.5	1917.5	1793.0	1692.8	1566.2	1486.0	1423.4	1362.3	1358.6	1346.3
7.5°	1954.9	1856.1	1681.6	1509.4	1368.3	1247.8	1126.1	1044.7	980.8	958.2	944.8
10°	1799.6	1688.5	1470.6	1274.1	1148.1	1041.6	955.9	870.8	793.7	740.6	716.6
12.5°	1691.0	1568.2	1328.0	1158.7	1068.4	967.3	862.8	756.6	667.7	603.8	564.6
15°	1649.1	1518.0	1280.3	1113.0	1001.6	873.7	740.0	618.6	520.1	462.1	427.0
17.5°	1699.0	1546.5	1276.6	1057.3	901.6	742.6	594.9	451.5	358.7	314.7	292.2
20°	1825.8	1637.4	1275.2	989.0	782.8	587.2	403.0	297.0	240.8	216.2	205.6
22.5°	2005.2	1753.3	1286.6	921.6	659.2	419.5	278.2	218.2	189.4	176.2	170.2
25°	2236.0	1916.1	1318.9	860.5	542.9	313.0	216.8	182.8	162.5	152.2	147.9
27.5°	2481.9	2103.5	1369.2	807.4	448.4	249.6	185.6	156.5	141.9	134.8	130.8
30°	2684.6	2320.5	1420.0	748.3	379.8	217.6	169.9	142.8	126.0	121.4	117.7
32.5°	2862.0	2484.7	1456.0	694.9	335.0	193.4	153.7	127.7	116.2	107.4	103.4
35°	3045.6	2621.5	1454.9	657.5	304.2	175.1	139.9	114.2	100.5	90.2	87.1
37.5°	3244.4	2776.0	1430.0	625.5	290.7	160.5	132.2	107.1	93.4	83.1	79.1
40°	3477.2	2938.3	1404.6	595.5	287.0	148.8	126.8	101.4	86.8	76.8	72.8
42.5°	3704.0	3084.5	1382.3	573.2	271.0	148.5	122.0	97.1	81.7	72.0	67.4
45°	3885.3	3220.7	1378.0	559.8	254.2	153.7	119.4	94.2	77.7	68.0	63.7
47.5°	4036.1	3368.7	1405.4	550.4	238.2	140.2	125.7	92.2	74.0	64.5	59.7
50°	4215.5	3550.3	1470.0	534.9	221.3	126.2	143.9	92.8	70.8	61.1	56.0
52.5°	4465.7	3801.6	1564.8	508.9	198.2	113.4	141.7	93.4	67.4	57.4	52.3
55°	4746.1	4115.5	1666.8	465.8	165.9	96.5	121.4	89.4	60.8	53.4	48.6
57.5°	5040.9	4400.3	1727.3	414.4	131.9	83.4	97.1	81.4	53.7	48.0	44.8
60°	5087.1	4508.5	1699.6	351.3	104.8	72.5	72.0	82.8	48.0	42.3	40.0
62.5°	4972.0	4372.6	1565.7	295.0	87.7	63.7	59.1	72.3	43.4	37.7	35.4
65°	4750.7	4005.0	1348.6	265.9	81.4	54.5	49.1	50.8	38.0	32.8	30.8
67.5°	4442.8	3514.3	1107.3	249.3	80.5	46.8	42.0	38.6	32.8	28.6	26.8
70°	3813.3	2927.7	883.4	240.2	78.3	39.4	35.4	31.4	27.4	24.3	22.8
72.5°	2806.6	2074.6	687.2	230.2	78.8	31.4	30.8	26.0	22.0	18.8	18.3
75°	1621.6	1185.2	450.7	186.5	75.1	24.3	25.7	18.3	15.4	13.1	13.1
77.5°	864.2	722.9	171.6	77.7	27.4	15.4	14.6	10.9	9.7	8.0	7.7
80°	376.7	318.2	51.7	21.7	15.1	8.3	5.4	4.9	4.3	3.4	3.1
82.5°	133.4	115.1	16.9	10.6	6.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.3	21.7	0.0	2.6	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°	2022.6	2022.6	2022.6	2022.6	2022.6	2022.6	2022.6	2022.6	2022.6	2022.6	2022.6
2.5°	1715.6	1709.3	1672.2	1673.6	1680.2	1689.6	1667.3	1677.6	1705.3	1731.9	1741.9
5°	1326.6	1328.0	1305.5	1319.5	1332.0	1340.6	1304.6	1305.2	1327.2	1357.2	1372.9
7.5°	934.8	932.5	933.6	967.0	990.7	973.6	987.0	940.5	943.3	964.8	948.8
10°	694.9	663.5	645.7	670.9	696.9	687.4	664.3	649.2	659.7	683.4	681.7
12.5°	546.1	500.9	474.4	456.4	477.8	460.1	459.5	446.4	432.1	434.7	472.7
15°	410.7	377.9	346.4	317.6	317.0	311.0	280.5	246.2	243.3	245.0	264.8
17.5°	282.5	271.3	258.5	233.6	227.1	201.9	172.2	158.5	151.7	154.8	161.4
20°	198.5	194.2	195.6	182.2	172.8	148.8	131.4	126.0	124.8	127.9	131.1
22.5°	164.5	156.8	155.9	149.9	140.5	123.1	113.7	110.5	109.1	112.0	114.2
25°	143.9	136.2	133.1	129.4	119.4	107.4	101.7	98.8	97.4	99.1	100.5
27.5°	126.8	119.7	116.8	114.2	104.5	96.0	91.4	88.8	87.7	88.3	89.7
30°	114.0	107.7	104.0	100.8	92.5	86.5	82.5	80.0	78.8	78.8	80.3
32.5°	100.5	97.1	93.7	89.7	82.0	78.0	74.0	71.1	70.0	70.3	71.4
35°	83.7	82.5	83.4	79.7	73.1	69.7	65.7	62.5	61.7	62.0	63.1
37.5°	74.3	69.1	72.3	70.3	66.5	62.0	56.8	54.0	52.6	53.4	54.0
40°	68.3	62.0	59.7	61.7	61.1	53.7	49.1	46.3	45.1	45.4	46.0
42.5°	63.1	55.7	50.6	50.3	53.7	46.8	42.0	39.4	38.0	38.0	38.6
45°	58.3	50.3	44.0	39.1	45.1	39.7	35.1	32.8	31.1	31.1	31.4
47.5°	54.5	45.7	38.3	32.0	34.0	32.6	28.8	26.6	24.8	24.8	25.1
50°	51.1	41.1	33.1	26.8	25.4	26.8	23.4	20.8	19.7	19.4	20.0
52.5°	47.4	36.6	28.3	22.8	20.0	20.3	18.3	16.6	15.1	15.1	15.7
55°	43.7	32.8	24.6	19.4	16.6	15.1	14.6	13.4	12.3	12.3	12.9
57.5°	40.0	28.8	20.8	16.0	13.1	12.0	12.0	11.1	10.3	10.3	10.9
60°	36.6	24.8	17.1	13.1	10.3	10.0	10.3	9.4	8.9	8.9	9.4
62.5°	32.6	21.1	14.0	10.9	8.3	8.0	8.9	8.3	7.7	7.7	8.3
65°	27.7	18.0	11.1	8.3	6.3	6.3	7.4	6.9	6.3	6.3	6.9
67.5°	23.4	15.1	8.6	6.0	4.6	4.9	6.3	5.7	5.4	5.4	6.0
70°	19.4	11.7	6.0	3.7	2.6	3.7	4.9	4.9	4.9	4.9	5.4
72.5°	14.6	8.0	3.4	1.4	1.1	2.6	4.0	4.6	4.3	4.3	5.1
75°	9.4	4.6	1.1	0.0	0.0	1.4	3.1	3.7	3.7	3.4	4.3
77.5°	5.4	1.4	0.0	0.0	0.0	0.0	2.0	1.7	1.4	1.1	2.0
80°	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2022.6	2022.6	2022.6	2022.6	2022.6	2022.6	2022.6	2022.6	2022.6	2022.6
2.5°	1782.2	1815.9	1863.3	1913.5	1990.9	2052.3	2112.6	2164.3	2184.3	2192.6
5°	1410.6	1460.0	1529.4	1618.5	1758.2	1883.8	2011.2	2139.4	2195.1	2209.1
7.5°	1012.2	1075.3	1163.5	1275.2	1438.9	1601.7	1779.6	1967.8	2054.0	2075.7
10°	749.1	826.2	927.3	1045.0	1201.2	1368.6	1562.5	1777.6	1876.1	1905.0
12.5°	531.5	635.7	771.1	914.2	1049.6	1199.0	1395.2	1632.2	1735.6	1766.7
15°	312.2	413.0	573.2	764.8	938.2	1089.6	1288.9	1557.7	1671.6	1703.0
17.5°	179.1	229.3	350.4	564.1	799.4	1009.0	1255.5	1576.2	1710.5	1739.6
20°	136.8	152.8	201.9	363.3	637.2	929.9	1255.5	1681.3	1846.7	1889.5
22.5°	119.7	131.4	151.4	216.8	469.0	845.1	1270.1	1833.3	2049.5	2096.9
25°	106.2	116.8	133.9	163.1	319.9	744.3	1304.6	2019.8	2288.2	2349.6
27.5°	95.1	105.1	120.5	142.8	218.8	622.6	1351.2	2238.5	2551.6	2600.7
30°	85.1	94.5	108.5	124.2	168.8	484.7	1390.9	2444.7	2758.3	2811.2
32.5°	75.7	84.3	96.8	108.5	138.2	358.4	1395.2	2608.1	2930.0	2982.5
35°	66.8	74.5	86.0	95.1	114.5	283.0	1328.6	2749.8	3101.6	3171.0
37.5°	58.3	65.7	75.7	82.5	100.8	230.8	1226.9	2907.7	3321.8	3386.1
40°	50.3	56.8	67.1	71.7	95.4	177.4	1116.4	3073.4	3537.7	3596.6
42.5°	42.8	49.1	59.1	68.0	83.7	132.5	997.0	3228.7	3731.9	3793.6
45°	35.7	42.3	52.3	72.0	69.4	99.1	869.4	3331.8	3885.3	3952.4
47.5°	28.8	36.3	50.0	68.5	55.4	72.8	768.3	3429.5	4001.6	4067.8
50°	23.1	30.6	56.3	61.1	45.4	55.7	726.0	3516.9	4077.8	4141.5
52.5°	18.8	25.7	53.1	46.8	38.0	46.0	748.8	3658.5	4148.4	4188.3
55°	15.7	20.3	32.0	32.6	32.3	39.1	777.1	3861.9	4330.9	4349.7
57.5°	13.7	16.3	22.3	25.1	27.1	34.8	777.7	4153.8	4613.3	4625.0
60°	11.7	14.3	18.6	20.3	23.4	31.1	749.4	4255.7	4724.4	4763.3
62.5°	10.3	12.6	15.4	16.9	19.7	28.0	683.2	4108.1	4571.9	4637.9
65°	9.1	11.4	12.9	14.3	17.4	25.1	574.1	3812.8	4318.9	4387.7
67.5°	8.0	10.0	11.4	12.9	15.7	22.3	422.7	3469.8	4028.4	4085.5
70°	7.1	8.9	10.3	11.4	13.7	18.8	256.5	2944.3	3626.8	3650.6
72.5°	6.9	8.0	9.4	10.3	12.0	16.6	129.9	2163.7	2899.4	2938.0
75°	6.0	7.1	8.6	9.1	10.6	14.3	52.8	1421.2	2101.2	2163.1
77.5°	4.9	6.6	7.7	8.3	9.1	11.7	26.8	908.2	1474.6	1514.5
80°	1.7	4.9	6.6	6.9	7.7	8.6	17.7	497.2	855.4	872.5
82.5°	0.0	3.1	5.1	4.9	5.4	6.6	11.4	236.5	564.6	570.9
85°	0.0	1.4	4.0	3.1	2.3	4.6	4.0	51.7	296.2	308.4
87.5°	0.0	0.0	0.3	1.4	1.1	1.7	0.6	0.3	26.8	34.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)