

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P324496

Luminaire Tested: **GAN-SA2D-740-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324496  
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 (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA2D-740-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 1200mA 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: 11768 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

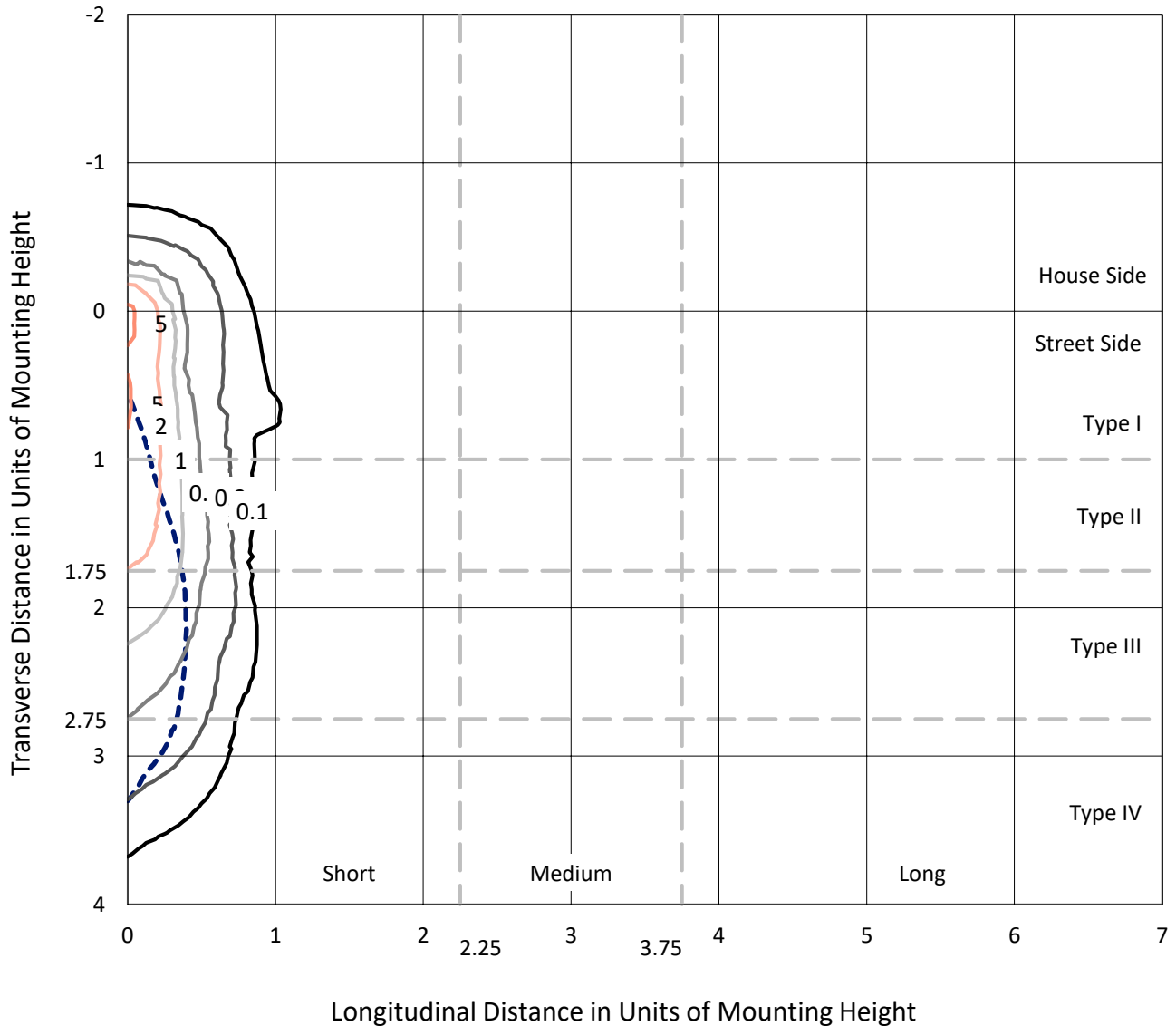
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

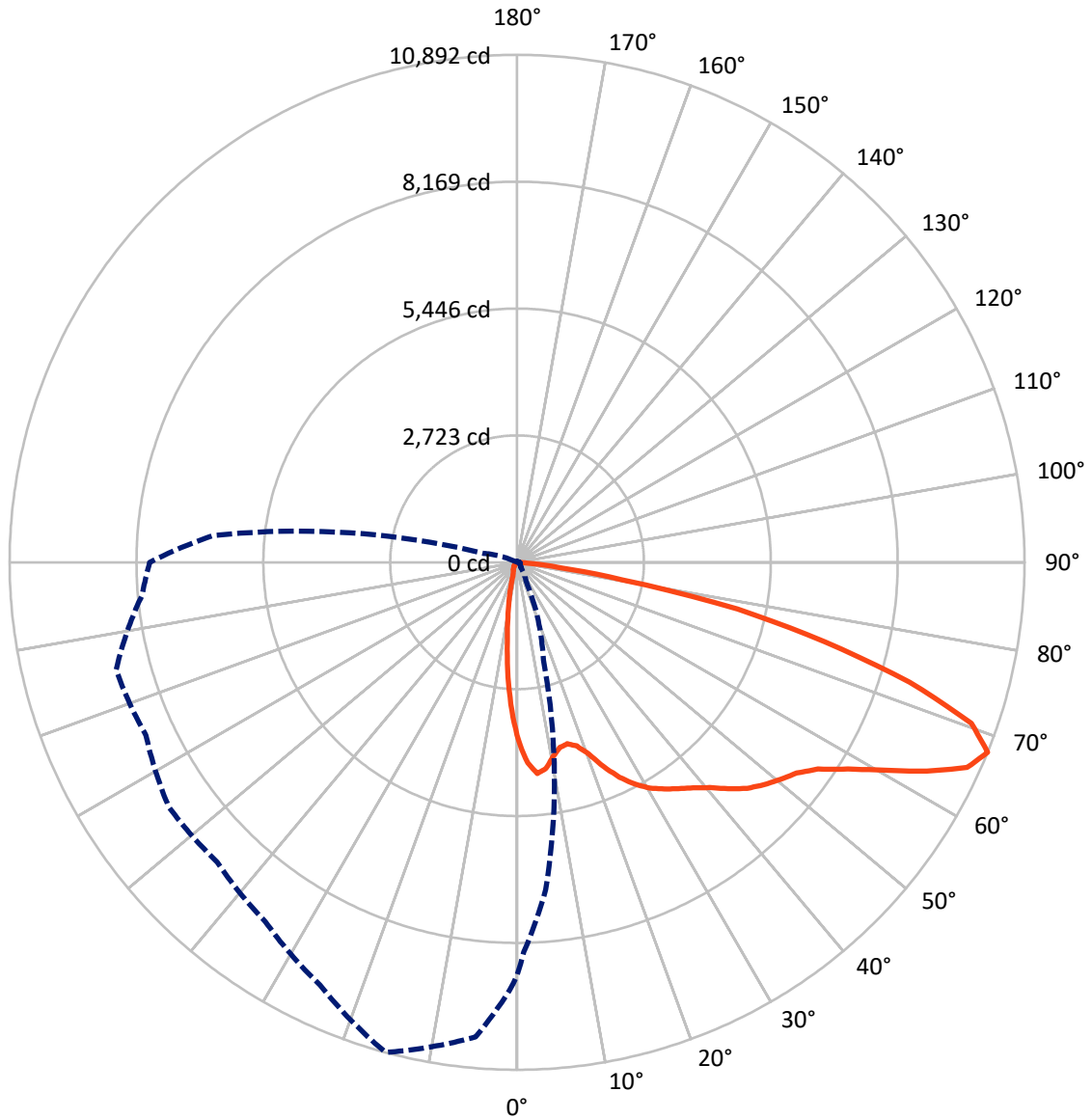
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - 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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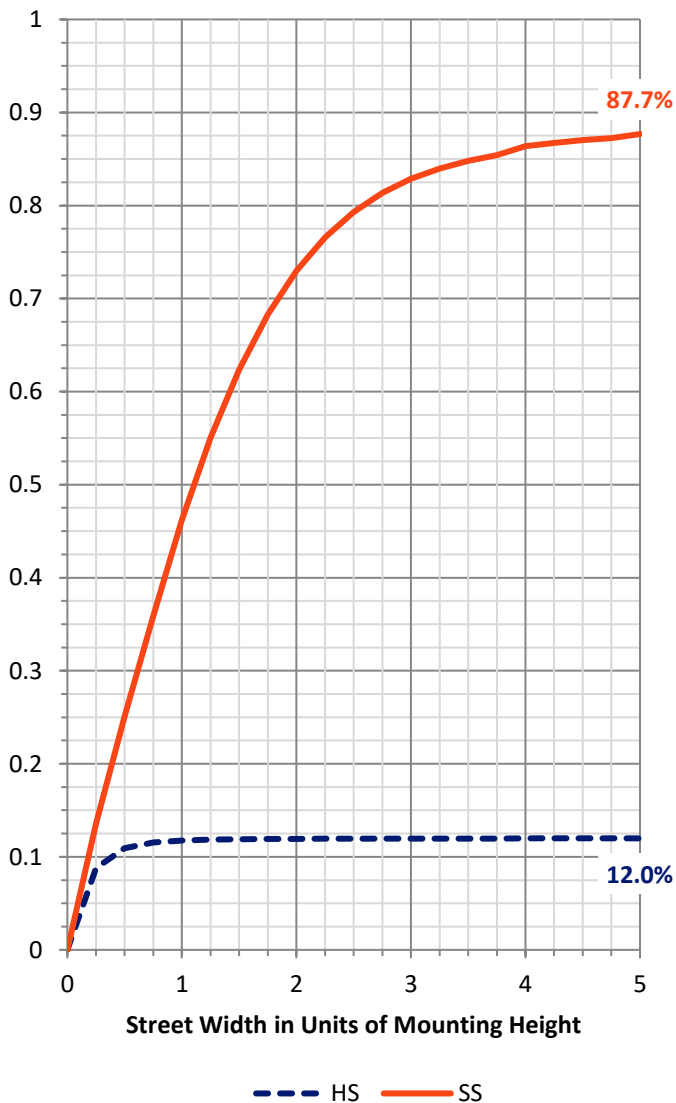
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1424.3	0.0	1424.3
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	10343.7	0.0	10343.7
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	11768.0	0.0	11768.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.2	2.5
10°-20°	585.6	5.0
20°-30°	831.6	7.1
30°-40°	1228.3	10.4
40°-50°	1771.5	15.1
50°-60°	2486.8	21.1
60°-70°	2898.9	24.6
70°-80°	1481.9	12.6
80°-90°	189.3	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°	11768.0	100.0
0°-180°	11768.0	100.0

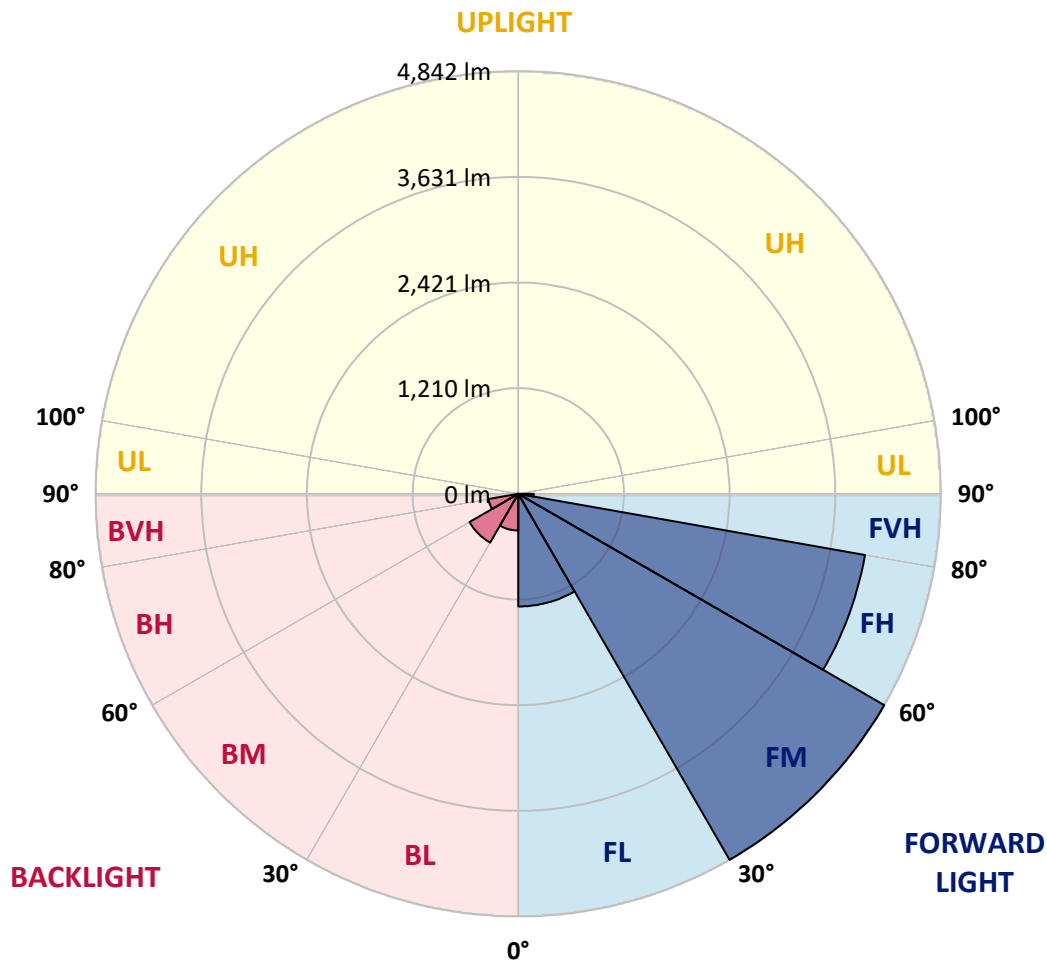


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1290.7	11.0			
FM (30°-60°)	4841.5	41.1			
FH (60°-80°)	4033.7	34.3			G2/5000
FVH (80°-90°)	177.8	1.5			G2/225
BL (0°-30°)	420.7	3.6	B1/500		
BM (30°-60°)	645.0	5.5	B1/1000		
BH (60°-80°)	347.1	2.9	B1/500		G1/500
BVH (80°-90°)	11.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4
2.5°	4197.5	4165.1	4129.4	4012.9	3904.8	3781.0	3680.1	3609.8	3521.8	3407.5	3378.5
5°	4167.3	4132.8	4020.7	3761.5	3534.6	3313.8	3100.8	2976.0	2821.0	2663.8	2624.7
7.5°	3864.6	3828.4	3666.7	3311.6	3006.1	2687.2	2410.7	2239.5	2064.4	1920.6	1844.2
10°	3549.6	3510.1	3328.3	2897.4	2521.0	2232.8	2029.9	1866.5	1700.9	1547.1	1424.4
12.5°	3332.8	3280.9	3083.6	2595.2	2267.4	2071.7	1882.1	1686.5	1462.3	1297.3	1162.4
15°	3241.9	3182.8	2974.3	2478.7	2177.6	1947.9	1700.9	1460.7	1198.1	1009.1	885.3
17.5°	3312.1	3235.2	3011.6	2470.9	2065.0	1752.2	1440.0	1157.9	873.1	681.8	593.7
20°	3550.7	3449.8	3166.1	2468.6	1928.4	1519.8	1123.9	805.0	575.3	462.7	416.5
22.5°	3926.5	3793.3	3388.0	2486.5	1787.4	1275.6	811.7	546.9	432.1	373.5	346.2
25°	4380.3	4225.9	3707.4	2549.5	1663.6	1038.1	589.8	432.1	364.6	321.7	298.8
27.5°	4811.8	4686.4	4111.0	2640.3	1567.7	846.3	478.9	366.3	311.6	283.2	264.8
30°	5242.8	5085.0	4525.3	2748.5	1452.3	716.4	420.9	333.9	279.3	249.2	237.5
32.5°	5556.1	5425.1	4849.7	2826.6	1329.1	631.7	376.3	305.5	260.9	230.2	213.0
35°	5924.6	5776.3	5127.9	2843.8	1249.9	578.1	338.4	274.8	226.3	199.0	180.6
37.5°	6322.7	6138.1	5449.1	2805.9	1188.0	551.9	310.0	260.9	211.3	183.4	163.9
40°	6763.1	6554.6	5757.4	2751.3	1127.3	543.0	288.2	250.3	199.6	171.2	151.1
42.5°	7226.9	6981.1	6024.4	2693.9	1088.8	512.3	286.0	239.7	190.7	160.0	139.9
45°	7616.6	7367.4	6298.7	2674.9	1061.5	478.9	295.5	232.5	184.5	151.1	131.6
47.5°	7927.2	7691.3	6579.7	2717.3	1045.9	448.2	269.3	242.0	181.2	143.3	124.3
50°	8297.9	8030.9	6975.5	2843.8	1023.0	417.6	243.6	277.1	181.2	138.3	118.2
52.5°	8762.9	8498.6	7417.0	3040.1	977.3	375.2	219.1	277.6	182.9	131.6	110.4
55°	9347.7	9155.9	8047.6	3255.3	904.3	312.8	189.6	238.6	176.2	119.3	103.1
57.5°	9908.5	9751.9	8622.4	3402.5	806.7	244.2	165.0	192.3	161.1	104.8	92.0
59°	10061.8	9890.7	8833.1	3409.1	733.7	213.0	152.8	158.9	157.8	98.1	85.3
60°	10061.8	9880.1	8893.9	3373.5	680.7	195.7	145.0	141.6	164.5	93.7	81.4
62.5°	9879.5	9624.2	8696.5	3132.1	555.3	166.7	126.6	117.1	147.7	84.2	71.9
65°	9500.4	9128.6	8024.2	2695.5	495.1	152.8	109.3	95.9	102.6	74.1	63.0
67.5°	8868.2	8364.2	7054.7	2177.6	471.1	148.9	94.2	81.4	77.5	63.6	55.2
70°	7754.9	7195.7	5877.8	1712.1	450.5	147.2	79.2	68.6	62.4	53.5	46.8
72.5°	5644.2	5061.0	4172.9	1338.6	438.2	150.5	63.6	57.4	51.3	41.8	36.2
75°	3228.5	2846.6	2345.4	884.2	373.5	143.8	49.1	47.9	36.8	30.1	25.1
77.5°	1668.1	1617.3	1405.5	339.5	179.0	63.0	32.3	27.9	21.7	18.4	15.1
80°	719.7	711.9	616.0	98.1	47.4	35.1	18.4	11.7	10.0	7.8	6.1
82.5°	248.6	248.6	219.1	32.9	21.2	17.3	2.2	0.0	0.0	0.0	0.0
85°	50.2	56.3	39.6	0.0	7.2	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°	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4
2.5°	3343.4	3275.9	3271.4	3229.1	3176.1	3152.1	3138.2	3162.7	3192.8	3196.2	3241.3
5°	2595.2	2524.4	2553.9	2478.7	2493.7	2478.7	2454.1	2458.6	2472.0	2430.2	2482.0
7.5°	1822.5	1769.0	1803.0	1782.9	1809.7	1820.3	1805.2	1782.9	1717.1	1709.3	1754.5
10°	1373.7	1312.9	1276.7	1238.8	1247.1	1264.4	1258.8	1242.7	1200.9	1203.1	1246.6
12.5°	1103.9	1035.8	963.9	870.8	848.0	860.8	848.0	838.5	798.3	801.7	840.2
15°	837.4	781.6	706.4	631.7	591.0	594.9	559.2	534.1	509.0	478.9	502.3
17.5°	565.3	531.3	509.0	486.7	438.2	427.0	381.9	333.4	314.4	300.5	310.5
20°	400.3	381.9	373.0	371.9	344.0	330.0	286.0	255.9	246.4	243.6	249.8
22.5°	334.5	321.1	308.3	301.1	287.1	270.9	237.5	222.4	215.8	212.4	216.9
25°	291.0	281.0	267.6	255.3	249.8	232.5	208.5	197.4	192.9	189.6	191.8
27.5°	258.7	249.8	234.2	226.3	221.9	206.8	186.2	177.3	173.4	172.3	171.7
30°	233.0	224.7	210.2	201.3	193.5	180.1	167.8	158.9	155.0	153.9	152.8
32.5°	207.4	200.7	191.2	182.3	173.9	161.7	151.1	143.8	137.7	136.6	136.0
35°	175.1	168.4	163.3	162.8	155.0	143.3	135.5	126.0	121.0	119.3	119.9
37.5°	155.5	146.6	135.5	139.4	137.1	128.8	118.2	108.7	103.7	102.6	102.6
40°	143.3	133.8	121.0	114.3	121.0	119.3	102.6	93.1	88.1	87.5	86.4
42.5°	131.6	122.1	107.6	96.4	99.8	104.8	88.6	79.7	74.7	73.6	71.9
45°	123.2	113.2	97.0	84.2	77.5	88.1	75.8	64.7	61.9	59.7	58.5
47.5°	115.4	105.9	87.5	73.0	61.9	63.6	60.8	53.0	49.6	47.4	46.8
50°	108.7	98.7	79.2	62.4	51.3	46.8	49.1	41.8	39.0	36.8	35.7
52.5°	100.9	91.4	70.2	54.1	42.9	36.8	37.4	32.9	30.1	28.4	27.9
55°	94.8	85.3	63.0	47.4	37.9	30.1	26.8	25.6	24.0	22.9	22.3
57.5°	86.4	77.5	55.8	40.1	32.3	24.5	20.6	20.6	20.1	19.0	18.4
59°	81.4	73.6	51.3	36.2	29.5	21.2	18.4	19.0	18.4	17.3	16.7
60°	77.5	70.2	47.9	33.5	27.9	19.5	16.7	17.8	17.3	16.2	15.6
62.5°	68.6	63.6	41.3	27.9	24.5	15.6	13.9	15.1	15.1	14.5	13.9
65°	60.2	54.6	35.1	23.4	22.9	13.4	11.2	13.4	13.9	12.8	11.7
67.5°	52.4	46.8	30.7	19.0	21.2	10.6	8.4	11.2	15.1	11.7	10.6
70°	44.6	39.0	24.0	15.1	22.3	7.2	6.7	10.0	17.8	12.8	10.0
72.5°	34.6	30.1	16.7	11.2	24.0	5.0	5.0	8.4	20.1	13.9	9.5
75°	24.0	19.5	10.0	6.7	19.5	3.3	3.3	7.8	19.0	12.8	8.9
77.5°	13.9	10.6	3.3	0.6	10.0	0.0	0.6	5.6	13.4	7.8	3.9
80°	5.0	2.2	0.0	0.0	6.1	0.0	0.0	0.0	1.1	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°	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4
2.5°	3253.0	3328.3	3395.8	3497.8	3618.8	3758.1	3878.0	4006.8	4127.8	4177.9	4212.5
5°	2492.6	2585.7	2694.4	2844.4	3044.0	3289.8	3520.1	3780.4	4060.3	4200.2	4331.8
7.5°	1762.3	1857.0	1992.0	2151.4	2392.8	2685.5	2986.6	3346.1	3725.2	3946.6	4164.6
10°	1267.2	1383.7	1509.7	1727.7	1973.0	2250.6	2560.6	2962.0	3384.6	3629.9	3892.5
12.5°	862.5	995.1	1185.8	1430.0	1718.2	1990.3	2259.6	2642.6	3133.2	3376.3	3657.8
15°	517.4	591.0	792.8	1075.4	1428.9	1767.8	2062.8	2446.9	2969.8	3267.5	3560.2
17.5°	318.9	352.9	462.7	694.7	1065.9	1494.7	1898.9	2380.5	2993.2	3355.6	3668.9
20°	254.2	267.6	302.7	410.3	706.4	1193.6	1714.3	2367.2	3184.5	3630.5	3966.6
22.5°	220.8	233.6	257.0	298.3	444.3	893.7	1539.3	2379.4	3458.8	4042.5	4435.0
25°	194.6	205.7	228.0	262.0	325.6	629.4	1351.9	2434.1	3816.1	4553.7	4970.7
27.5°	173.9	183.4	204.0	235.3	279.3	439.3	1139.5	2500.4	4239.8	5076.6	5488.1
30°	155.0	163.3	181.7	210.7	242.5	337.8	906.5	2545.6	4664.1	5488.1	5857.7
32.5°	138.8	145.0	161.7	186.2	210.7	269.3	689.1	2538.3	4979.1	5830.4	6123.6
35°	122.1	128.2	142.7	163.9	183.4	222.4	541.9	2402.8	5253.4	6185.5	6428.0
37.5°	103.7	111.5	125.4	144.4	157.8	195.7	438.2	2239.5	5531.6	6591.4	6767.6
40°	88.1	95.9	108.2	128.8	137.1	185.6	336.7	2040.5	5844.3	7045.2	7140.0
42.5°	73.0	80.3	93.1	110.9	129.3	160.0	249.2	1813.0	6144.8	7433.2	7479.5
45°	59.1	66.3	79.7	97.6	138.3	132.7	192.9	1569.4	6387.3	7756.0	7771.1
47.5°	46.8	53.5	67.5	92.0	128.8	105.9	137.7	1378.2	6590.8	8008.0	7968.4
50°	36.2	41.8	56.3	105.4	112.6	87.5	104.3	1314.6	6773.1	8164.1	8061.5
52.5°	28.4	33.5	46.3	98.7	87.5	72.5	87.5	1374.2	7022.9	8293.4	8113.9
55°	22.9	27.9	36.2	56.3	59.7	61.3	74.7	1430.0	7453.8	8596.7	8423.3
57.5°	19.0	24.0	29.5	39.6	45.2	51.8	66.3	1436.1	7961.7	9100.7	8936.8
59°	17.3	21.7	26.8	35.1	39.6	47.4	62.4	1402.7	8140.7	9284.1	9202.2
60°	16.2	20.6	25.1	32.3	36.8	44.6	60.2	1370.9	8148.5	9277.4	9315.4
62.5°	13.9	18.4	22.3	27.3	31.2	37.9	54.1	1253.3	7818.4	8973.6	9247.3
65°	12.3	16.2	20.1	23.4	26.8	34.0	49.1	1038.6	7254.8	8483.6	8781.8
67.5°	11.2	13.9	18.4	20.6	24.0	30.1	43.5	740.4	6550.7	7884.2	8077.7
70°	10.0	13.4	16.7	19.0	21.7	26.2	37.4	425.4	5531.6	7006.7	7144.4
72.5°	9.5	12.8	15.1	17.8	19.5	23.4	34.0	200.1	4050.3	5613.0	5972.6
75°	8.4	11.7	13.9	16.7	18.4	21.2	29.0	95.9	2693.9	4062.0	4470.6
77.5°	5.0	9.5	12.8	15.1	16.2	18.4	24.0	55.2	1719.3	2811.5	3311.6
80°	0.0	3.3	9.5	12.8	13.9	15.6	18.4	43.5	919.9	1606.2	1927.9
82.5°	0.0	0.0	6.7	10.0	9.5	10.6	13.9	27.3	414.8	1049.8	1183.0
85°	0.0	0.0	2.2	7.8	6.7	5.0	9.5	9.5	90.9	531.3	662.9
87.5°	0.0	0.0	0.0	0.6	3.3	2.2	3.9	1.1	0.6	39.6	160.6
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):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4	3833.4
2.5°	4333.5	4374.7	4444.4	4477.3	4461.2	4392.6	4310.6	4227.0	4177.9	4197.5
5°	4600.0	4812.4	4935.0	4975.7	4907.7	4753.8	4552.6	4287.2	4193.0	4167.3
7.5°	4600.0	4999.7	5252.8	5297.4	5145.8	4844.2	4466.7	4052.5	3914.8	3864.6
10°	4438.3	4982.4	5335.3	5406.1	5194.3	4743.3	4237.6	3764.8	3601.5	3549.6
12.5°	4256.0	4841.9	5213.8	5311.3	5137.4	4642.9	4078.7	3570.3	3377.9	3332.8
15°	4143.9	4669.1	4976.8	5047.7	4974.1	4584.4	4040.8	3511.7	3285.4	3241.9
17.5°	4184.1	4535.3	4646.2	4687.5	4737.1	4563.7	4143.9	3639.9	3353.4	3312.1
20°	4335.2	4394.3	4336.8	4388.7	4522.5	4583.8	4389.8	3949.9	3605.9	3550.7
22.5°	4591.6	4321.2	4160.1	4180.7	4343.5	4650.1	4765.6	4392.6	3995.6	3926.5
25°	4890.4	4380.3	4062.0	4043.6	4210.8	4737.7	5109.0	4874.3	4456.7	4380.3
27.5°	5266.2	4513.0	4041.9	4023.5	4164.6	4819.6	5394.4	5350.4	4942.3	4811.8
30°	5556.1	4643.5	4101.6	4059.2	4210.8	4876.5	5623.6	5754.6	5329.2	5242.8
32.5°	5764.0	4797.3	4198.6	4137.2	4341.3	4974.6	5800.3	6124.7	5687.1	5556.1
35°	5922.4	4964.6	4355.2	4254.3	4520.8	5123.5	5965.9	6518.9	6067.9	5924.6
37.5°	6070.7	5199.3	4600.0	4479.6	4802.3	5363.2	6140.9	6966.0	6493.8	6322.7
40°	6277.5	5465.2	4977.4	4870.4	5275.7	5689.9	6359.5	7432.1	6978.3	6763.1
42.5°	6484.3	5750.7	5363.8	5392.7	5866.1	6086.8	6641.6	7924.9	7456.6	7226.9
45°	6673.3	6045.0	5914.0	6047.8	6414.1	6522.3	6922.0	8209.8	7838.5	7616.6
47.5°	6841.7	6413.0	6460.9	6817.2	7037.4	6916.4	7131.6	8455.7	8122.8	7927.2
50°	7037.4	6889.1	7181.8	7685.8	7754.9	7273.2	7322.3	8746.7	8455.1	8297.9
52.5°	7251.5	7390.8	7980.1	8424.5	8402.2	7660.7	7514.1	9072.8	8910.6	8762.9
55°	7494.5	7796.1	8683.1	9115.8	9096.8	8093.3	7831.8	9475.9	9481.5	9347.7
57.5°	7855.2	8145.1	9160.4	9674.9	9706.7	8592.8	8370.4	9927.5	9997.7	9908.5
59°	8113.9	8371.5	9349.4	9908.5	10037.9	8979.2	8764.0	10189.5	10143.2	10061.8
60°	8305.7	8515.3	9443.0	10030.6	10230.2	9241.2	9054.4	10343.4	10160.5	10061.8
62.5°	8780.1	8828.6	9611.9	10168.9	10451.5	9823.2	9871.7	10605.4	10040.7	9879.5
65°	9001.5	9026.6	9609.7	9921.4	10237.5	10276.5	10613.2	10613.2	9748.0	9500.4
67.5°	8908.9	8788.0	9133.0	9100.7	9416.3	10007.2	10892.0	10224.1	9188.2	8868.2
70°	8156.3	7690.8	7537.5	7551.4	7792.8	8704.3	10340.0	9079.0	8129.0	7754.9
72.5°	6786.5	5669.8	5291.3	5723.3	5786.3	6689.5	8811.9	6837.2	5994.9	5644.2
75°	5458.5	3996.8	3381.3	3837.3	3944.3	4895.5	6816.6	4258.2	3501.7	3228.5
77.5°	3921.5	2868.9	2426.3	2394.5	2532.7	3104.7	4836.9	2143.0	1787.4	1668.1
80°	2227.8	1888.3	2033.2	1918.4	1988.1	1941.2	2298.0	940.0	769.9	719.7
82.5°	1344.7	1116.1	1208.7	1006.3	1273.3	1108.9	885.3	301.1	261.5	248.6
85°	874.7	609.9	317.8	213.0	438.8	708.6	197.9	82.0	63.0	50.2
87.5°	301.6	155.5	15.6	6.7	46.8	132.1	7.2	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)