

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: P324443

Luminaire Tested: **GAN-SA9B-730-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324443  
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-SA9B-730-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 800mA 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: 34489 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

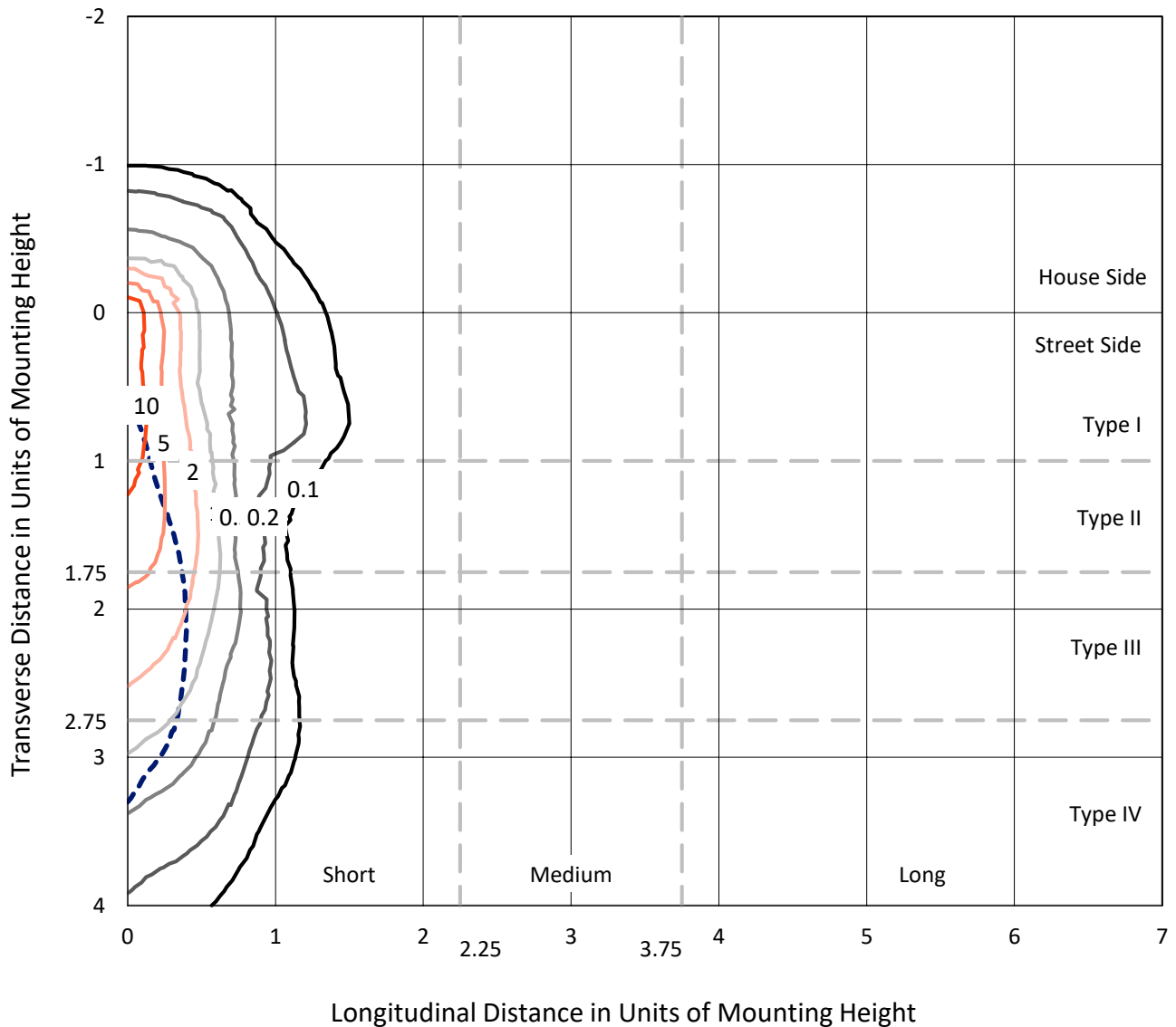
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

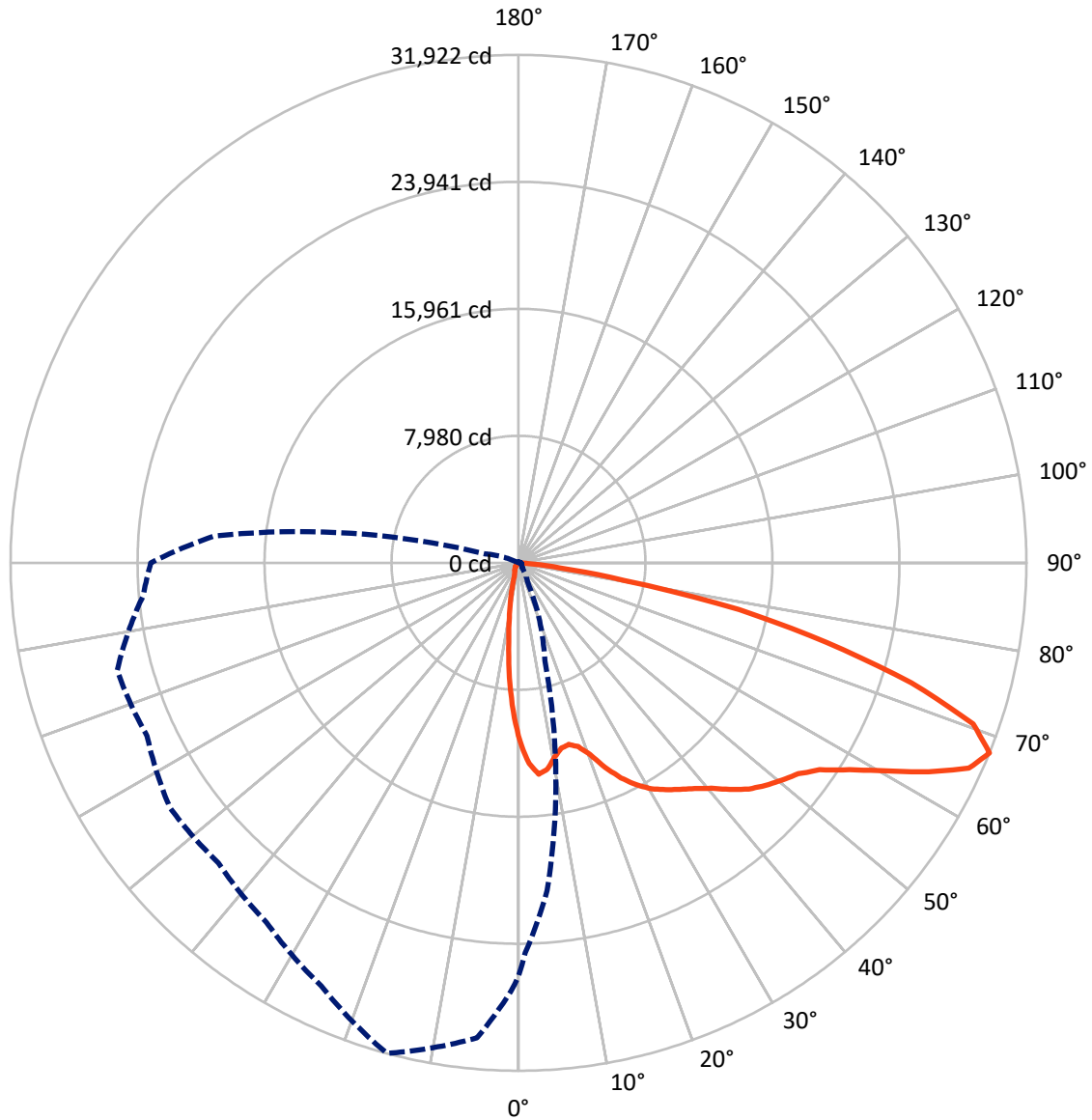
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 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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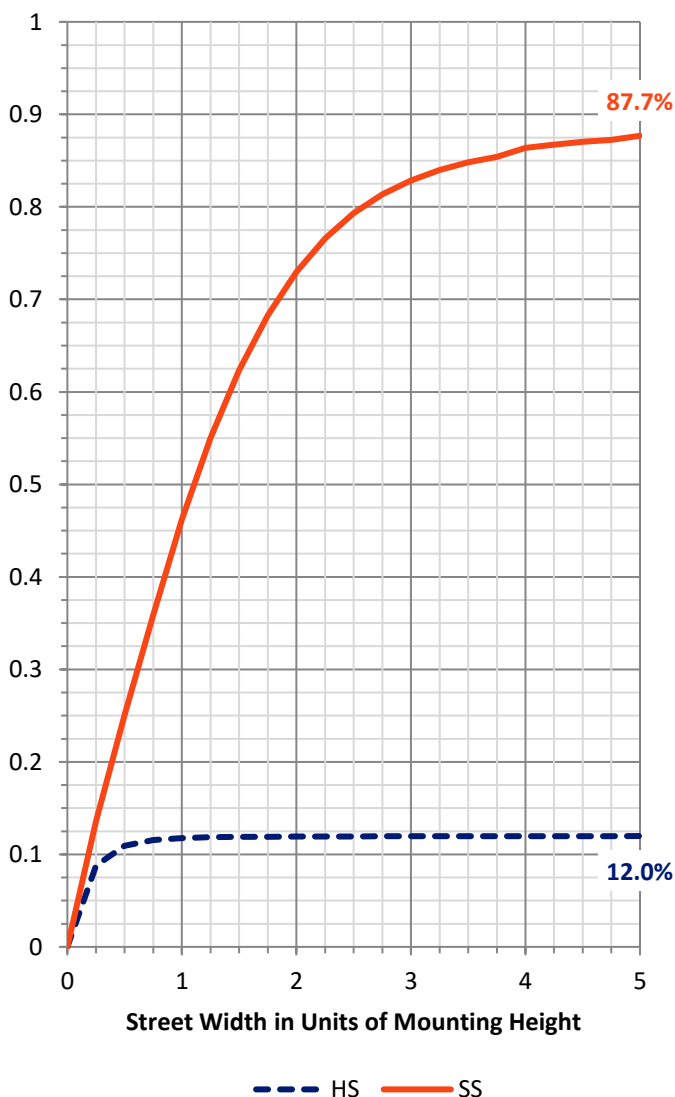
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4174.3	0.0	4174.3
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	30314.7	0.0	30314.7
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	34489.0	0.0	34489.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	862.3	2.5
10°-20°	1716.3	5.0
20°-30°	2437.2	7.1
30°-40°	3599.8	10.4
40°-50°	5191.7	15.1
50°-60°	7288.1	21.1
60°-70°	8495.8	24.6
70°-80°	4343.2	12.6
80°-90°	554.7	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°	34489.0	100.0
0°-180°	34489.0	100.0

**Coefficient of Utilization**

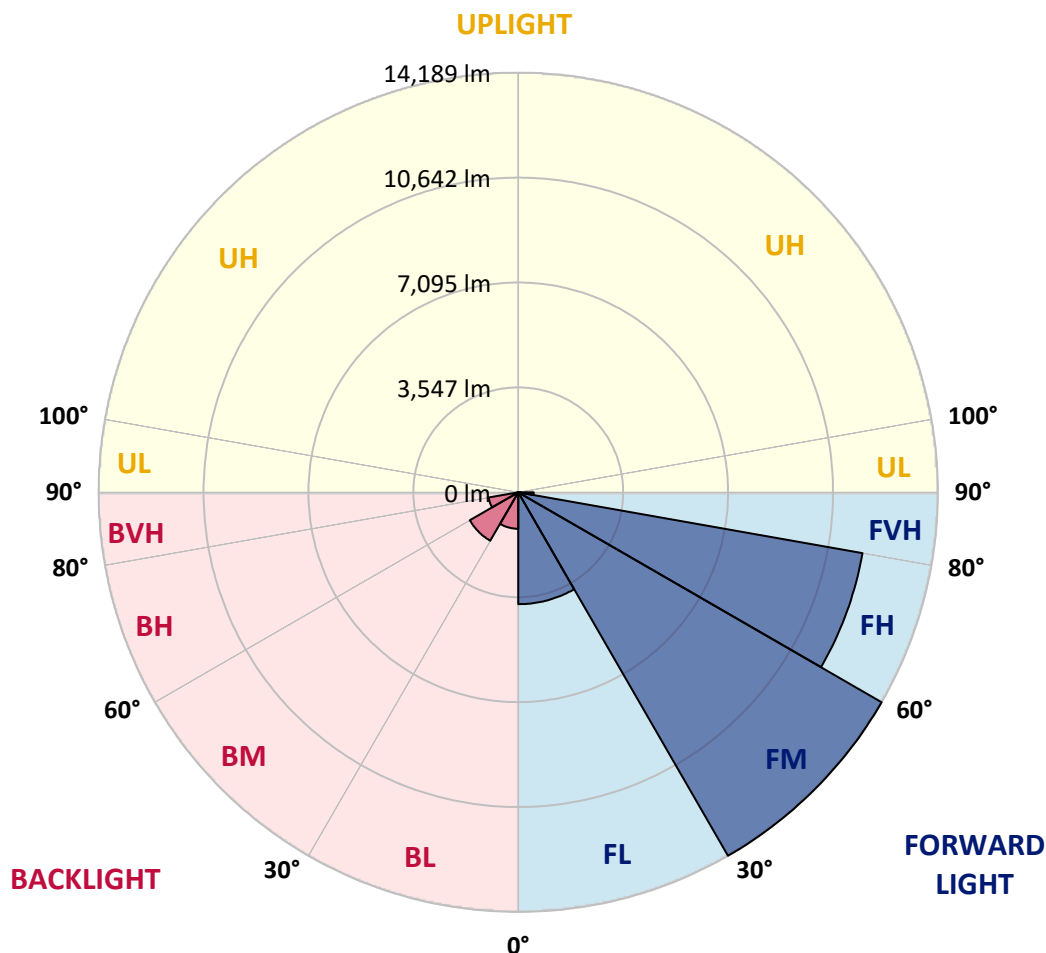


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3782.8	11.0			
FM (30°-60°)	14189.3	41.1			
FH (60°-80°)	11821.6	34.3			G4/12000
FVH (80°-90°)	521.0	1.5			G4/750
BL (0°-30°)	1232.9	3.6	B3/2500		
BM (30°-60°)	1890.3	5.5	B2/2500		
BH (60°-80°)	1017.4	2.9	B3/2500		G3/2500
BVH (80°-90°)	33.7	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-G4**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11234.7	11234.7	11234.7	11234.7	11234.7	11234.7	11234.7	11234.7	11234.7	11234.7	11234.7
2.5°	12301.7	12206.9	12102.3	11760.8	11443.9	11081.1	10785.4	10579.5	10321.4	9986.4	9901.5
5°	12213.4	12112.1	11783.7	11024.0	10359.0	9711.9	9087.8	8721.8	8267.6	7806.8	7692.4
7.5°	11326.2	11220.0	10746.2	9705.4	8810.0	7875.4	7065.0	6563.4	6050.3	5628.8	5405.0
10°	10403.1	10287.1	9754.4	8491.4	7388.5	6543.8	5949.0	5470.3	4985.0	4534.1	4174.6
12.5°	9767.5	9615.5	9037.1	7605.8	6645.1	6071.6	5516.1	4942.6	4285.7	3802.1	3406.7
15°	9501.2	9328.0	8716.9	7264.3	6382.0	5708.9	4985.0	4280.8	3511.3	2957.4	2594.6
17.5°	9707.0	9481.5	8826.4	7241.5	6052.0	5135.4	4220.4	3393.6	2558.7	1998.3	1740.1
20°	10406.3	10110.6	9278.9	7234.9	5651.7	4454.0	3294.0	2359.4	1686.2	1356.1	1220.5
22.5°	11507.6	11117.1	9929.2	7287.2	5238.3	3738.4	2379.0	1602.9	1266.3	1094.7	1014.7
25°	12837.6	12385.0	10865.5	7471.8	4875.6	3042.3	1728.7	1266.3	1068.6	942.8	875.8
27.5°	14102.2	13734.6	12048.4	7738.2	4594.5	2480.3	1403.5	1073.5	913.4	830.0	776.1
30°	15365.2	14902.8	13262.4	8055.1	4256.3	2099.6	1233.6	978.7	818.6	730.4	696.0
32.5°	16283.5	15899.5	14213.3	8283.9	3895.2	1851.2	1102.9	895.4	764.7	674.8	624.2
35°	17363.5	16928.9	15028.7	8334.5	3663.2	1694.4	991.8	805.5	663.4	583.3	529.4
37.5°	18530.1	17989.3	15969.8	8223.4	3481.9	1617.6	908.5	764.7	619.2	537.6	480.4
40°	19820.9	19209.8	16873.3	8063.3	3303.8	1591.4	844.7	733.6	584.9	501.6	442.8
42.5°	21180.3	20459.8	17656.0	7895.0	3191.0	1501.6	838.2	702.6	558.8	468.9	410.1
45°	22322.4	21592.0	18459.9	7839.5	3111.0	1403.5	866.0	681.3	540.8	442.8	385.6
47.5°	23232.5	22541.3	19283.3	7963.7	3065.2	1313.7	789.2	709.1	531.0	419.9	364.4
50°	24319.0	23536.4	20443.4	8334.5	2998.2	1223.8	714.0	612.1	531.0	405.2	346.4
52.5°	25681.7	24907.2	21737.5	8909.7	2864.2	1099.6	642.1	513.7	535.9	385.6	323.5
55°	27395.7	26833.6	23585.4	9540.4	2650.2	916.6	555.5	465.7	516.3	349.7	302.3
57.5°	29039.4	28580.3	25270.0	9971.7	2364.3	715.7	483.6	363.7	472.2	307.2	269.6
59°	29488.7	28987.1	25887.6	9991.3	2150.2	624.2	447.7	316.7	462.4	287.6	250.0
60°	29488.7	28956.1	26065.7	9886.8	1995.0	573.5	424.8	315.0	482.0	274.5	238.6
62.5°	28954.4	28206.1	25487.3	9179.3	1627.4	488.5	370.9	343.1	433.0	246.7	210.8
65°	27843.4	26753.6	23516.8	7899.9	1450.9	447.7	320.2	281.0	300.6	217.3	184.6
67.5°	25990.5	24513.5	20675.4	6382.0	1380.6	436.3	276.1	238.6	227.1	186.3	161.8
70°	22727.6	21088.8	17226.3	5017.7	1320.2	431.4	232.0	201.0	183.0	156.9	137.2
72.5°	16541.6	14832.6	12229.8	3923.0	1284.2	441.2	186.3	168.3	150.3	122.5	106.2
75°	9461.9	8342.7	6873.8	2591.4	1094.7	421.5	143.8	140.5	107.8	88.2	73.5
77.5°	4888.6	4740.0	4119.1	995.0	524.5	184.6	94.8	81.7	63.7	53.9	44.1
80°	2109.4	2086.5	1805.5	287.6	138.9	102.9	53.9	34.3	29.4	22.9	18.0
82.5°	728.7	728.7	642.1	96.4	62.1	50.7	6.5	0.0	0.0	0.0	0.0
85°	147.1	165.0	116.0	0.0	21.2	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°	11234.7	11234.7	11234.7	11234.7	11234.7	11234.7	11234.7	11234.7	11234.7	11234.7	11234.7
2.5°	9798.5	9600.8	9587.8	9463.6	9308.4	9238.1	9197.2	9269.1	9357.4	9367.2	9499.5
5°	7605.8	7398.3	7484.9	7264.3	7308.5	7264.3	7192.4	7205.5	7244.7	7122.2	7274.1
7.5°	5341.2	5184.4	5284.0	5225.2	5303.7	5334.7	5290.6	5225.2	5032.4	5009.6	5141.9
10°	4025.9	3847.8	3741.6	3630.5	3655.0	3705.7	3689.4	3642.0	3519.4	3526.0	3653.4
12.5°	3235.1	3035.8	2825.0	2552.2	2485.2	2522.7	2485.2	2457.4	2339.8	2349.6	2462.3
15°	2454.1	2290.7	2070.2	1851.2	1731.9	1743.4	1638.8	1565.3	1491.8	1403.5	1472.1
17.5°	1656.8	1557.1	1491.8	1426.4	1284.2	1251.6	1119.2	977.1	921.5	880.7	910.1
20°	1173.1	1119.2	1093.1	1089.8	1008.1	967.3	838.2	750.0	722.2	714.0	732.0
22.5°	980.3	941.1	903.5	882.3	841.5	794.1	696.0	651.9	632.3	622.5	635.6
25°	852.9	823.5	784.3	748.3	732.0	681.3	611.1	578.4	565.3	555.5	562.1
27.5°	758.1	732.0	686.2	663.4	650.3	606.2	545.7	519.6	508.1	504.9	503.2
30°	683.0	658.5	616.0	589.8	567.0	527.8	491.8	465.7	454.2	451.0	447.7
32.5°	607.8	588.2	560.4	534.3	509.8	473.8	442.8	421.5	403.6	400.3	398.7
35°	513.0	493.4	478.7	477.1	454.2	419.9	397.0	369.3	354.6	349.7	351.3
37.5°	455.9	429.7	397.0	408.5	401.9	377.4	346.4	318.6	303.9	300.6	300.6
40°	419.9	392.1	354.6	335.0	354.6	349.7	300.6	272.9	258.2	256.5	253.3
42.5°	385.6	357.8	315.3	282.7	292.5	307.2	259.8	233.6	218.9	215.7	210.8
45°	361.1	331.7	284.3	246.7	227.1	258.2	222.2	189.5	181.4	174.8	171.6
47.5°	338.2	310.4	256.5	214.0	181.4	186.3	178.1	155.2	145.4	138.9	137.2
50°	318.6	289.2	232.0	183.0	150.3	137.2	143.8	122.5	114.4	107.8	104.6
52.5°	295.7	268.0	205.9	158.5	125.8	107.8	109.5	96.4	88.2	83.3	81.7
55°	277.8	250.0	184.6	138.9	111.1	88.2	78.4	75.2	70.3	67.0	65.4
57.5°	253.3	227.1	163.4	117.6	94.8	71.9	60.5	60.5	58.8	55.6	53.9
59°	238.6	215.7	150.3	106.2	86.6	62.1	53.9	55.6	53.9	50.7	49.0
60°	227.1	205.9	140.5	98.0	81.7	57.2	49.0	52.3	50.7	47.4	45.7
62.5°	201.0	186.3	120.9	81.7	71.9	45.7	40.8	44.1	44.1	42.5	40.8
65°	176.5	160.1	102.9	68.6	67.0	39.2	32.7	39.2	40.8	37.6	34.3
67.5°	153.6	137.2	89.9	55.6	62.1	31.0	24.5	32.7	44.1	34.3	31.0
70°	130.7	114.4	70.3	44.1	65.4	21.2	19.6	29.4	52.3	37.6	29.4
72.5°	101.3	88.2	49.0	32.7	70.3	14.7	14.7	24.5	58.8	40.8	27.8
75°	70.3	57.2	29.4	19.6	57.2	9.8	9.8	22.9	55.6	37.6	26.1
77.5°	40.8	31.0	9.8	1.6	29.4	0.0	1.6	16.3	39.2	22.9	11.4
80°	14.7	6.5	0.0	0.0	18.0	0.0	0.0	0.0	3.3	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°	11234.7	11234.7	11234.7	11234.7	11234.7	11234.7	11234.7	11234.7	11234.7	11234.7	11234.7
2.5°	9533.8	9754.4	9952.1	10251.1	10605.7	11014.2	11365.4	11742.9	12097.4	12244.5	12345.8
5°	7305.2	7578.0	7896.7	8336.2	8921.1	9641.7	10316.5	11079.5	11899.7	12309.8	12695.4
7.5°	5164.8	5442.5	5837.9	6305.2	7012.7	7870.5	8752.8	9806.7	10917.8	11566.4	12205.3
10°	3713.9	4055.4	4424.6	5063.5	5782.4	6596.1	7504.5	8680.9	9919.4	10638.4	11407.9
12.5°	2527.7	2916.5	3475.3	4191.0	5035.7	5833.0	6622.2	7744.7	9182.5	9894.9	10720.0
15°	1516.3	1731.9	2323.4	3151.8	4187.7	5181.1	6045.4	7171.2	8703.8	9576.3	10434.1
17.5°	934.6	1034.3	1356.1	2035.8	3124.0	4380.5	5565.1	6976.8	8772.4	9834.5	10752.7
20°	745.1	784.3	887.2	1202.6	2070.2	3498.2	5024.3	6937.6	9332.9	10640.0	11625.2
22.5°	647.0	684.6	753.2	874.1	1302.2	2619.1	4511.2	6973.5	10136.7	11847.4	12997.7
25°	570.2	602.9	668.3	767.9	954.2	1844.7	3962.2	7133.6	11184.1	13345.7	14567.9
27.5°	509.8	537.6	598.0	689.5	818.6	1287.5	3339.7	7328.1	12425.8	14878.3	16084.2
30°	454.2	478.7	532.7	617.6	710.7	990.1	2656.7	7460.4	13669.2	16084.2	17167.4
32.5°	406.8	424.8	473.8	545.7	617.6	789.2	2019.5	7439.2	14592.4	17087.4	17946.8
35°	357.8	375.8	418.3	480.4	537.6	651.9	1588.2	7042.1	15396.3	18128.2	18838.9
37.5°	303.9	326.8	367.6	423.2	462.4	573.5	1284.2	6563.4	16211.6	19317.7	19834.0
40°	258.2	281.0	317.0	377.4	401.9	544.1	986.9	5980.1	17128.2	20647.7	20925.4
42.5°	214.0	235.3	272.9	325.1	379.1	468.9	730.4	5313.5	18008.9	21784.8	21920.5
45°	173.2	194.4	233.6	285.9	405.2	388.9	565.3	4599.4	18719.6	22730.9	22775.0
47.5°	137.2	156.9	197.7	269.6	377.4	310.4	403.6	4039.0	19316.0	23469.4	23353.4
50°	106.2	122.5	165.0	308.8	330.0	256.5	305.5	3852.7	19850.3	23926.9	23626.3
52.5°	83.3	98.0	135.6	289.2	256.5	212.4	256.5	4027.6	20582.3	24306.0	23779.8
55°	67.0	81.7	106.2	165.0	174.8	179.7	218.9	4191.0	21845.3	25194.8	24686.7
57.5°	55.6	70.3	86.6	116.0	132.3	152.0	194.4	4208.9	23333.8	26671.9	26191.5
59°	50.7	63.7	78.4	102.9	116.0	138.9	183.0	4110.9	23858.3	27209.4	26969.2
60°	47.4	60.5	73.5	94.8	107.8	130.7	176.5	4017.8	23881.1	27189.8	27300.9
62.5°	40.8	53.9	65.4	80.1	91.5	111.1	158.5	3673.0	22913.9	26299.3	27101.6
65°	35.9	47.4	58.8	68.6	78.4	99.7	143.8	3044.0	21262.0	24863.1	25737.3
67.5°	32.7	40.8	53.9	60.5	70.3	88.2	127.4	2169.8	19198.4	23106.7	23673.6
70°	29.4	39.2	49.0	55.6	63.7	76.8	109.5	1246.7	16211.6	20534.9	20938.5
72.5°	27.8	37.6	44.1	52.3	57.2	68.6	99.7	586.6	11870.3	16450.2	17504.0
75°	24.5	34.3	40.8	49.0	53.9	62.1	85.0	281.0	7895.0	11904.6	13102.3
77.5°	14.7	27.8	37.6	44.1	47.4	53.9	70.3	161.8	5039.0	8239.8	9705.4
80°	0.0	9.8	27.8	37.6	40.8	45.7	53.9	127.4	2695.9	4707.3	5650.0
82.5°	0.0	0.0	19.6	29.4	27.8	31.0	40.8	80.1	1215.6	3076.6	3467.1
85°	0.0	0.0	6.5	22.9	19.6	14.7	27.8	27.8	266.3	1557.1	1942.7
87.5°	0.0	0.0	0.0	1.6	9.8	6.5	11.4	3.3	1.6	116.0	470.6
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°	11234.7	11234.7	11234.7	11234.7	11234.7	11234.7	11234.7	11234.7	11234.7	11234.7
2.5°	12700.3	12821.2	13025.5	13121.9	13074.5	12873.5	12633.4	12388.3	12244.5	12301.7
5°	13481.3	14103.9	14463.3	14582.6	14383.3	13932.3	13342.5	12564.7	12288.6	12213.4
7.5°	13481.3	14652.9	15394.6	15525.4	15080.9	14197.0	13090.8	11876.9	11473.3	11326.2
10°	13007.5	14602.2	15636.5	15844.0	15223.1	13901.3	12419.3	11033.8	10555.0	10403.1
12.5°	12473.2	14190.5	15280.3	15566.2	15056.4	13607.2	11953.6	10463.5	9899.8	9767.5
15°	12144.8	13684.0	14585.9	14793.4	14577.7	13435.6	11842.5	10292.0	9628.6	9501.2
17.5°	12262.5	13291.8	13617.0	13737.9	13883.3	13375.1	12144.8	10667.8	9827.9	9707.0
20°	12705.2	12878.4	12710.1	12862.1	13254.2	13434.0	12865.4	11576.2	10568.1	10406.3
22.5°	13456.8	12664.4	12192.2	12252.7	12729.8	13628.4	13966.6	12873.5	11710.2	11507.6
25°	14332.6	12837.6	11904.6	11850.7	12340.9	13884.9	14973.1	14285.2	13061.4	12837.6
27.5°	15433.9	13226.5	11845.8	11791.9	12205.3	14125.1	15809.7	15680.6	14484.6	14102.2
30°	16283.5	13608.8	12020.6	11896.5	12340.9	14291.8	16481.2	16865.2	15618.5	15365.2
32.5°	16892.9	14059.7	12304.9	12125.2	12723.2	14579.3	16999.1	17950.1	16667.5	16283.5
35°	17357.0	14549.9	12764.1	12468.3	13249.3	15015.6	17484.4	19105.2	17783.4	17363.5
37.5°	17791.6	15237.8	13481.3	13128.4	14074.5	15718.2	17997.5	20415.6	19031.7	18530.1
40°	18397.8	16017.2	14587.5	14273.8	15461.6	16675.6	18637.9	21781.6	20451.6	19820.9
42.5°	19003.9	16853.7	15719.8	15804.8	17191.9	17839.0	19464.7	23226.0	21853.5	21180.3
45°	19557.8	17716.4	17332.5	17724.6	18798.1	19115.0	20286.6	24060.9	22972.7	22322.4
47.5°	20051.3	18794.8	18935.3	19979.4	20624.8	20270.2	20900.9	24781.4	23806.0	23232.5
50°	20624.8	20190.2	21048.0	22525.0	22727.6	21315.9	21459.7	25634.3	24779.8	24319.0
52.5°	21252.2	21660.7	23387.7	24689.9	24624.6	22451.5	22021.8	26590.2	26114.7	25681.7
55°	21964.6	22848.5	25448.1	26716.0	26660.4	23719.4	22953.1	27771.5	27787.8	27395.7
57.5°	23021.7	23871.3	26846.7	28354.8	28447.9	25183.4	24531.4	29094.9	29300.8	29039.4
59°	23779.8	24534.7	27400.6	29039.4	29418.5	26315.7	25685.0	29862.9	29727.3	29488.7
60°	24341.9	24956.3	27675.1	29397.2	29982.1	27083.6	26536.2	30313.8	29777.9	29488.7
62.5°	25732.4	25874.5	28170.1	29802.4	30630.8	28789.4	28931.5	31081.8	29426.6	28954.4
65°	26381.0	26454.5	28163.6	29077.0	30003.4	30117.8	31104.6	31104.6	28568.8	27843.4
67.5°	26109.8	25755.2	26766.6	26671.9	27596.6	29328.6	31921.6	29964.2	26928.4	25990.5
70°	23904.0	22539.7	22090.4	22131.2	22838.7	25510.2	30304.0	26608.1	23824.0	22727.6
72.5°	19889.5	16616.8	15507.4	16773.7	16958.3	19605.2	25825.5	20038.2	17569.4	16541.6
75°	15997.6	11713.5	9909.6	11246.2	11559.9	14347.3	19977.8	12479.8	10262.6	9461.9
77.5°	11492.9	8408.1	7110.8	7017.6	7422.8	9099.2	14175.8	6280.7	5238.3	4888.6
80°	6529.1	5534.0	5958.8	5622.3	5826.5	5689.3	6735.0	2754.8	2256.4	2109.4
82.5°	3941.0	3271.1	3542.3	2949.2	3731.8	3249.8	2594.6	882.3	766.3	728.7
85°	2563.6	1787.5	931.3	624.2	1285.9	2076.7	580.0	240.2	184.6	147.1
87.5°	883.9	455.9	45.7	19.6	137.2	387.2	21.2	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)