

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: P457626

Luminaire Tested: **GLAN-SA9A-727-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457626  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9A-727-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 24899 lumens  
Efficiency: N/A  
Efficacy: 90.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

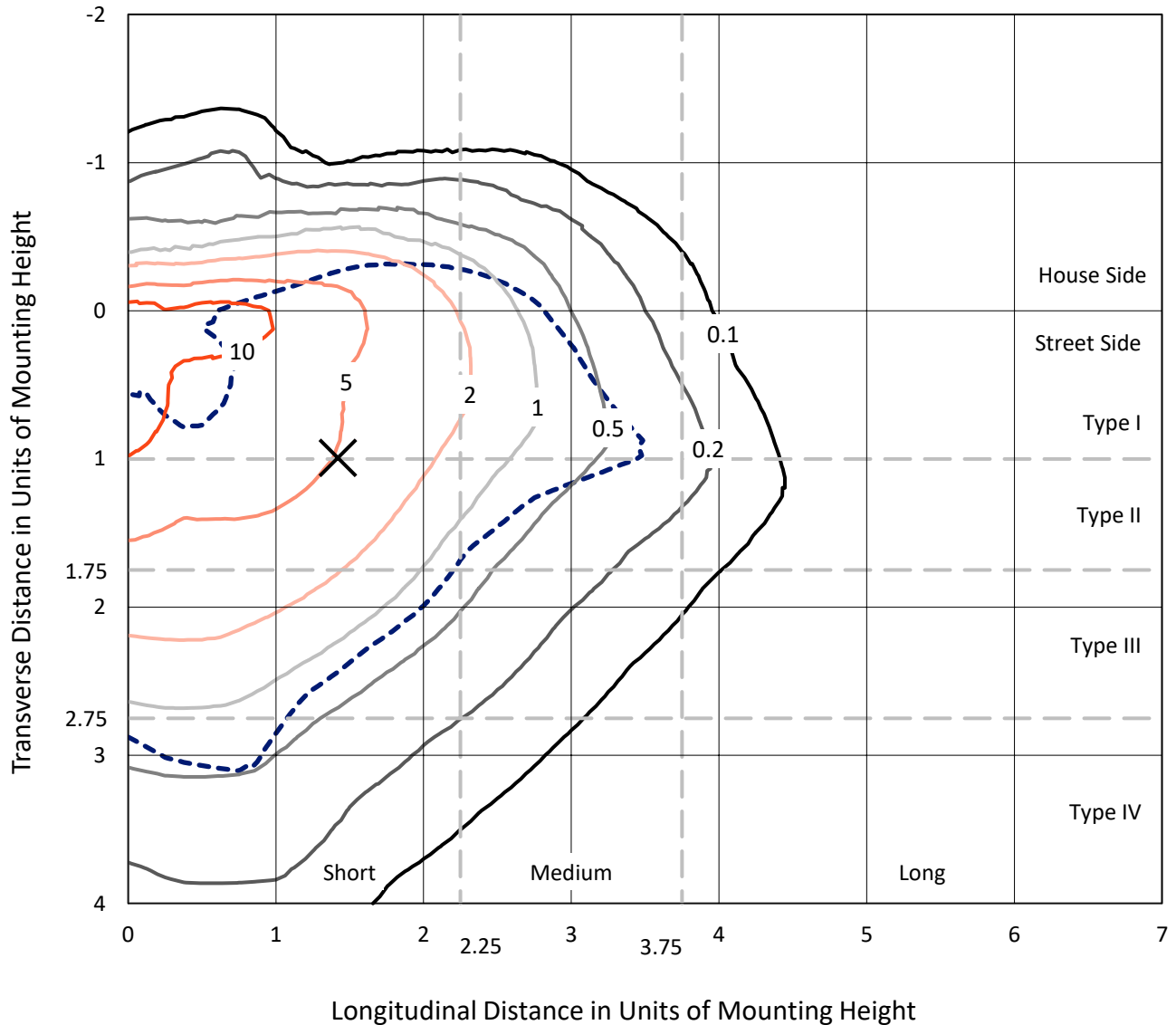
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

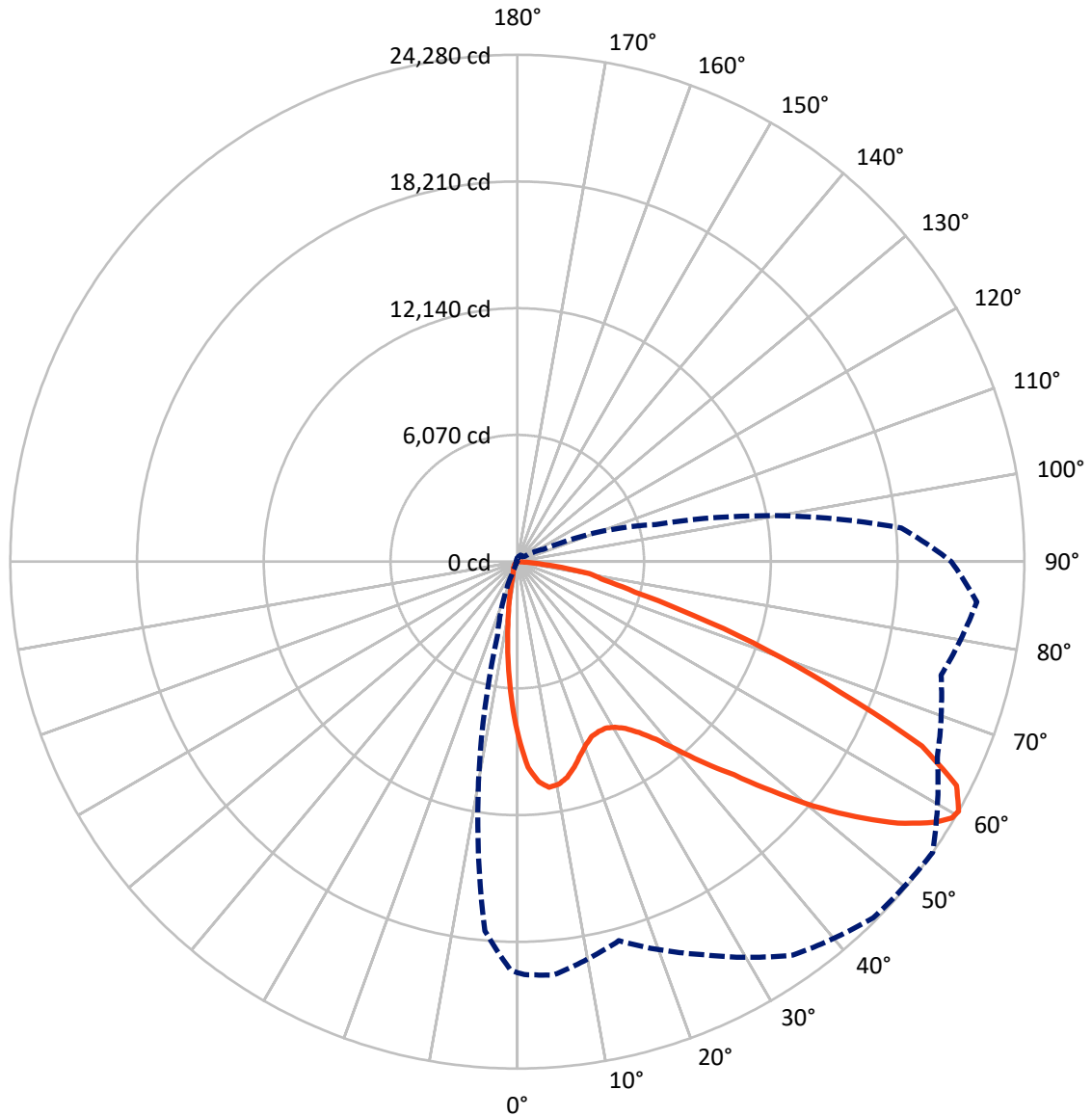
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3695.2	0.0	3695.2
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	21203.8	0.0	21203.8
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	24899.0	0.0	24899.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	624.3	2.5
10°-20°	1229.4	4.9
20°-30°	1819.7	7.3
30°-40°	2712.5	10.9
40°-50°	3972.5	16.0
50°-60°	5735.1	23.0
60°-70°	6033.0	24.2
70°-80°	2481.8	10.0
80°-90°	290.7	1.2
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°	24899.0	100.0
0°-180°	24899.0	100.0

**Coefficient of Utilization**



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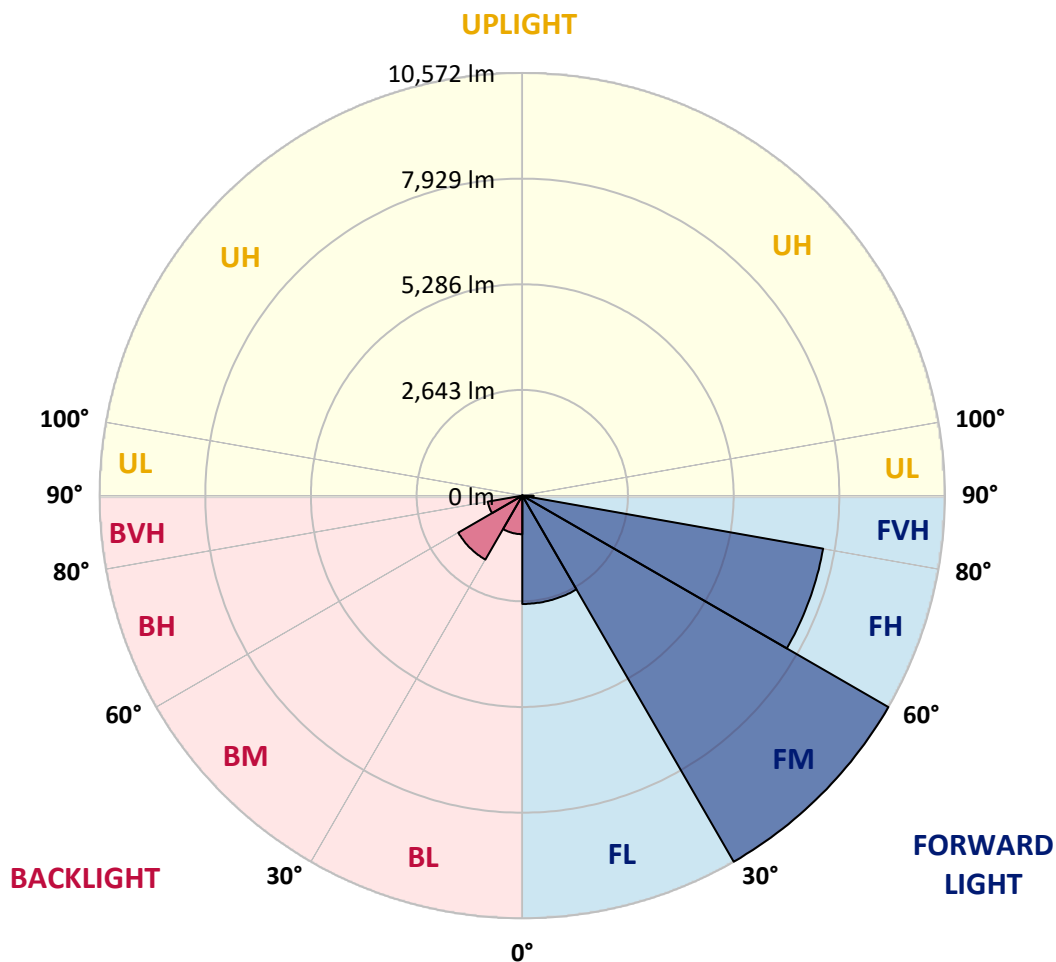
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2709.4	10.9			
FM (30°-60°)	10572.1	42.5			
FH (60°-80°)	7640.1	30.7			G4/12000
FVH (80°-90°)	282.1	1.1			G3/500
BL (0°-30°)	964.1	3.9	B2/1000		
BM (30°-60°)	1847.9	7.4	B2/2500		
BH (60°-80°)	874.6	3.5	B2/1000		G2/1000
BVH (80°-90°)	8.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8430.7	8430.7	8430.7	8430.7	8430.7	8430.7	8430.7	8430.7	8430.7	8430.7	8430.7
2.5°	9210.8	9195.4	9331.5	9553.8	9778.0	9894.9	9871.9	9862.4	9676.5	9540.4	9254.8
5°	9191.6	9270.2	9513.6	10115.3	10571.5	10791.9	10857.0	10583.0	10220.8	9695.6	9047.8
7.5°	8641.5	8739.3	9136.0	10077.0	10887.7	11366.8	11349.6	10910.7	10163.3	9350.7	8426.9
10°	7959.3	8074.3	8540.0	9682.2	10734.4	11366.8	11401.3	10845.5	9916.0	8873.4	7901.8
12.5°	7478.2	7614.3	8129.8	9314.2	10339.6	10962.4	11002.7	10600.2	9730.1	8689.5	7616.2
15°	7315.3	7443.7	7966.9	9128.3	9919.9	10255.3	10245.7	10203.5	9657.3	8733.5	7631.5
17.5°	7595.1	7700.5	8290.8	9212.7	9527.0	9492.5	9542.3	9745.5	9672.6	9103.4	8114.5
20°	8317.7	8425.0	9059.3	9471.4	9226.1	9007.6	9030.6	9369.8	9814.5	9799.1	8869.6
22.5°	9312.3	9494.4	10069.3	9973.5	9185.8	8706.7	8658.8	9099.6	10055.9	10600.2	9889.2
25°	10571.5	10755.5	11203.9	10774.6	9383.2	8635.8	8591.7	9017.2	10349.2	11382.2	11037.2
27.5°	11629.4	11769.3	12215.8	11554.6	9674.5	8666.5	8593.6	9028.7	10586.8	12047.2	12005.0
30°	12476.5	12580.0	12842.5	11918.8	9925.6	8800.6	8716.3	9197.3	10692.2	12371.1	12788.9
32.5°	13158.8	13333.2	13415.6	12307.8	10285.9	9053.6	8909.9	9521.2	10949.0	12771.6	13611.1
35°	13938.8	14140.0	14034.6	12679.6	10761.2	9448.4	9272.1	10046.4	11338.1	13141.5	14565.5
37.5°	14927.7	15159.6	14747.6	13070.6	11263.3	10042.5	9960.1	10784.2	11928.4	13670.5	15588.9
40°	15951.1	16085.3	15439.4	13545.9	11880.5	10906.9	10985.4	11880.5	12700.7	14304.8	16677.5
42.5°	16750.3	16876.8	16150.4	13944.5	12511.0	11932.2	12259.9	13202.8	13586.1	14954.5	17490.1
45°	17361.7	17469.0	16643.0	14379.6	13361.9	13417.5	14036.5	14565.5	14473.5	15351.3	18116.8
47.5°	17837.0	17929.0	17022.5	14847.2	14636.4	15234.3	16181.1	16405.3	15393.4	15780.6	18684.1
50°	18032.5	18059.3	17141.3	15443.2	16083.4	17549.5	18536.5	18400.4	16447.5	16257.8	19287.8
52.5°	18287.3	18281.6	17480.5	16010.5	17444.1	19619.3	20604.4	20295.9	17639.6	16972.6	19966.2
55°	18956.2	18963.9	18206.9	16815.5	18603.6	21290.5	22344.6	22120.4	18896.8	18180.0	20757.7
57.5°	19768.8	19797.6	19239.9	17756.5	19711.3	22501.8	23644.0	23557.8	20596.7	19523.5	21505.2
59°	19874.2	19931.7	19728.6	18419.6	20368.7	22873.6	24088.6	24173.0	21507.1	20408.9	21909.6
60°	19682.6	19778.4	19870.4	18795.2	20753.9	23007.7	24115.5	24280.3	22191.3	21010.7	22093.5
62.5°	18847.0	18998.4	19460.3	19950.9	21234.9	22589.9	23258.8	23603.8	23038.4	22591.8	22110.8
65°	17752.6	17831.2	18498.2	20155.9	20301.6	20638.9	20845.9	21288.6	22020.7	23201.3	21319.3
67.5°	15958.8	16190.7	17007.1	18965.8	17547.6	17148.9	17097.2	16656.4	18557.6	21748.6	19368.3
70°	13183.7	13287.2	14293.3	15548.7	13243.1	12629.8	12875.1	12710.3	14385.3	18722.4	15588.9
72.5°	9969.7	10203.5	11186.7	12394.1	9011.4	8216.1	8892.6	8831.3	10805.3	15046.5	10709.5
75°	7093.0	7244.4	8497.8	9699.5	6311.1	5347.1	5590.5	5818.5	7543.4	11880.5	6328.3
77.5°	4873.7	5004.0	5945.0	6414.6	4603.5	4409.9	4034.3	4254.7	4942.7	7048.9	3444.0
80°	2939.9	2934.2	3553.2	3668.2	3206.3	3723.8	3123.9	3507.2	2987.8	3016.6	1333.9
82.5°	1908.8	1889.7	2173.3	2368.8	1784.3	1876.3	1259.1	1814.9	1947.2	841.3	421.6
85°	854.8	891.2	1044.5	1378.0	781.9	415.9	256.8	557.7	829.8	423.5	0.0
87.5°	88.2	69.0	184.0	335.4	107.3	11.5	38.3	19.2	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	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8430.7	8430.7	8430.7	8430.7	8430.7	8430.7	8430.7	8430.7	8430.7	8430.7	8430.7
2.5°	9122.6	9011.4	8679.9	8369.4	8103.0	7777.2	7566.4	7234.8	7033.6	6972.3	6981.9
5°	8756.5	8436.5	7805.9	7301.9	6740.4	6420.3	5933.5	5465.9	5212.9	5119.0	5076.8
7.5°	7989.9	7646.9	6886.0	6094.5	5492.7	4931.2	4569.0	4156.9	3875.2	3643.3	3603.0
10°	7420.7	6970.4	6027.4	5176.5	4701.2	4279.6	3917.3	3505.3	3173.7	2909.3	2836.4
12.5°	7079.6	6575.5	5523.4	4810.4	4360.1	3926.9	3455.5	2978.3	2639.0	2353.5	2221.2
15°	7018.3	6433.7	5381.6	4547.9	3992.1	3468.9	2842.2	2326.6	1977.8	1707.6	1625.2
17.5°	7388.2	6688.6	5360.5	4273.8	3511.0	2769.4	2117.7	1690.4	1297.5	1146.1	1086.7
20°	8047.4	7139.0	5358.6	3955.7	3016.6	2133.1	1487.2	1102.0	942.9	870.1	835.6
22.5°	8946.3	7752.3	5460.1	3681.6	2503.0	1573.5	1061.7	877.8	785.8	726.4	712.9
25°	10044.4	8660.7	5709.3	3495.7	2110.1	1234.2	875.8	751.3	674.6	647.8	636.3
27.5°	11019.9	9530.8	5983.3	3304.1	1828.4	1092.4	812.6	688.0	626.7	605.6	588.4
30°	11861.3	10320.4	6115.6	3051.1	1602.2	1000.4	824.1	735.9	655.4	592.2	563.5
32.5°	12562.7	10926.0	6201.8	2821.1	1410.6	818.4	651.6	569.2	532.8	509.8	490.6
35°	13440.5	11581.5	6150.1	2690.8	1312.8	745.5	594.1	490.6	429.3	383.3	364.1
37.5°	14360.4	12236.9	6060.0	2583.5	1268.7	691.9	565.4	465.7	398.6	350.7	325.8
40°	15312.9	12844.5	5954.6	2483.8	1228.5	657.4	548.1	444.6	377.6	325.8	299.0
42.5°	16184.9	13436.7	5912.4	2418.6	1163.3	663.1	534.7	435.0	356.5	302.8	279.8
45°	16890.2	13998.2	5969.9	2384.1	1092.4	653.5	538.5	423.5	339.2	287.5	264.5
47.5°	17643.4	14791.6	6155.8	2349.6	1023.4	607.5	567.3	421.6	331.6	277.9	253.0
50°	18519.2	15807.4	6581.3	2265.3	939.1	557.7	603.7	419.7	322.0	266.4	241.5
52.5°	19686.4	16961.1	7020.2	2117.7	816.4	509.8	576.9	414.0	302.8	253.0	228.1
55°	20734.7	18176.2	7392.0	1943.3	661.2	440.8	519.4	389.1	270.2	230.0	207.0
57.5°	21167.9	18862.3	7380.5	1701.9	529.0	387.1	427.4	356.5	235.7	203.2	184.0
59°	21008.8	18776.1	7133.3	1523.6	483.0	358.4	354.6	352.6	220.4	184.0	168.7
60°	20784.6	18461.8	6866.9	1435.5	454.2	339.2	325.8	348.8	207.0	172.5	157.2
62.5°	19926.0	17158.5	5983.3	1286.0	415.9	287.5	260.6	295.1	184.0	149.5	136.1
65°	18682.2	15155.8	5065.3	1243.8	404.4	237.6	216.6	210.8	157.2	126.5	115.0
67.5°	16255.8	12825.3	4103.3	1215.1	408.2	199.3	189.7	159.1	130.3	105.4	97.7
70°	13015.0	10000.4	3359.6	1182.5	412.0	162.9	159.1	126.5	105.4	88.2	80.5
72.5°	7907.5	5927.8	2644.8	1027.2	400.6	130.3	141.8	95.8	76.7	63.2	59.4
75°	4889.0	4057.3	1640.5	799.2	264.5	95.8	99.7	59.4	51.7	40.2	40.2
77.5°	2832.6	2562.4	586.5	287.5	116.9	57.5	44.1	30.7	28.7	17.2	17.2
80°	1174.8	941.0	203.2	97.7	63.2	26.8	9.6	1.9	0.0	0.0	0.0
82.5°	343.1	304.7	55.6	44.1	19.2	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°	8430.7	8430.7	8430.7	8430.7	8430.7	8430.7	8430.7	8430.7	8430.7	8430.7	8430.7
2.5°	6818.9	6755.7	6727.0	6824.7	6734.6	6849.6	6761.5	6799.8	6912.9	6962.7	7091.1
5°	5103.7	5038.5	5007.8	5155.4	5147.7	5220.6	5212.9	5280.0	5337.5	5209.1	5341.3
7.5°	3555.1	3511.0	3583.9	3698.9	3821.5	3781.3	3781.3	3691.2	3721.9	3702.7	3696.9
10°	2704.2	2552.8	2514.5	2510.6	2556.6	2566.2	2514.5	2389.9	2435.9	2449.3	2529.8
12.5°	2127.3	2010.4	1832.2	1751.7	1730.6	1747.9	1577.3	1468.0	1519.8	1489.1	1567.7
15°	1525.5	1429.7	1324.3	1234.2	1209.3	1174.8	988.9	858.6	843.3	849.0	862.4
17.5°	1088.6	1023.4	1023.4	927.6	875.8	772.4	678.4	620.9	615.2	620.9	630.5
20°	803.0	768.5	764.7	739.8	682.3	613.3	548.1	536.6	532.8	542.4	546.2
22.5°	691.9	655.4	624.8	622.9	569.2	511.7	481.0	465.7	467.6	471.5	481.0
25°	619.0	580.7	548.1	529.0	490.6	450.4	421.6	414.0	414.0	419.7	421.6
27.5°	567.3	519.4	490.6	463.8	429.3	394.8	369.9	364.1	360.3	364.1	373.7
30°	530.9	483.0	446.5	406.3	379.5	346.9	325.8	318.1	316.2	318.1	325.8
32.5°	454.2	425.5	396.7	360.3	327.7	306.6	283.6	270.2	270.2	274.1	281.7
35°	343.1	327.7	325.8	316.2	289.4	266.4	239.6	226.1	226.1	233.8	237.6
37.5°	302.8	274.1	270.2	266.4	254.9	224.2	199.3	187.8	185.9	191.7	199.3
40°	276.0	243.4	226.1	222.3	224.2	189.7	162.9	151.4	151.4	153.3	161.0
42.5°	254.9	216.6	185.9	182.1	189.7	159.1	132.2	120.7	120.7	120.7	130.3
45°	237.6	193.6	157.2	138.0	149.5	130.3	107.3	95.8	92.0	95.8	99.7
47.5°	226.1	176.3	138.0	111.2	111.2	103.5	86.2	72.8	69.0	70.9	76.7
50°	216.6	161.0	116.9	90.1	80.5	82.4	65.2	55.6	51.7	51.7	57.5
52.5°	201.2	145.7	101.6	76.7	61.3	55.6	47.9	40.2	38.3	40.2	44.1
55°	182.1	132.2	88.2	63.2	47.9	38.3	34.5	28.7	26.8	28.7	34.5
57.5°	161.0	111.2	70.9	49.8	32.6	24.9	23.0	19.2	15.3	17.2	21.1
59°	147.6	99.7	61.3	40.2	24.9	17.2	17.2	13.4	9.6	11.5	17.2
60°	141.8	92.0	51.7	34.5	21.1	13.4	13.4	9.6	5.7	7.7	13.4
62.5°	120.7	76.7	40.2	21.1	9.6	1.9	5.7	1.9	0.0	1.9	5.7
65°	101.6	61.3	26.8	9.6	0.0	0.0	0.0	0.0	0.0	0.0	1.9
67.5°	84.3	46.0	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	67.1	30.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	46.0	17.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	28.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	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°	8430.7	8430.7	8430.7	8430.7	8430.7	8430.7	8430.7	8430.7	8430.7	8430.7
2.5°	7098.8	7372.8	7541.5	7859.6	8185.4	8436.5	8750.8	9032.5	9149.4	9210.8
5°	5475.5	5856.9	6180.7	6665.6	7116.0	7664.1	8219.9	8875.4	9126.4	9191.6
7.5°	3842.6	4231.7	4570.9	5132.4	5774.4	6508.5	7340.2	8172.0	8538.1	8641.5
10°	2775.1	3191.0	3605.0	4166.5	4766.4	5561.7	6428.0	7457.1	7878.8	7959.3
12.5°	1751.7	2198.2	2870.9	3564.7	4199.1	4839.2	5745.7	6864.9	7330.7	7478.2
15°	1015.8	1349.2	1857.1	2761.7	3568.5	4415.6	5404.6	6642.6	7163.9	7315.3
17.5°	680.4	795.4	1144.2	1836.0	2901.6	4024.7	5318.3	6824.7	7401.6	7595.1
20°	573.0	624.8	747.4	1119.2	2234.7	3675.9	5341.3	7319.2	8076.2	8317.7
22.5°	504.0	552.0	630.5	804.9	1560.0	3242.7	5450.6	8026.3	9003.8	9312.3
25°	444.6	492.5	561.5	666.9	1048.3	2742.5	5690.1	9061.3	10232.3	10571.5
27.5°	394.8	438.9	498.3	588.4	806.9	2184.8	5902.9	10069.3	11353.4	11629.4
30°	348.8	385.2	442.7	511.7	670.8	1684.6	6010.2	10950.9	12169.8	12476.5
32.5°	302.8	337.3	392.9	448.5	552.0	1284.1	5935.4	11598.7	12963.3	13158.8
35°	258.7	295.1	341.1	392.9	477.2	1036.8	5561.7	12327.0	13785.5	13938.8
37.5°	222.3	253.0	300.9	341.1	431.2	829.8	5109.4	12982.4	14707.3	14927.7
40°	187.8	218.5	266.4	302.8	396.7	653.5	4701.2	13710.7	15679.0	15951.1
42.5°	153.3	189.7	231.9	291.3	341.1	498.3	4206.7	14301.0	16409.2	16750.3
45°	122.7	162.9	208.9	289.4	297.1	379.5	3729.5	14761.0	17055.0	17361.7
47.5°	97.7	138.0	201.2	270.2	243.4	300.9	3457.4	15242.0	17591.7	17837.0
50°	78.6	115.0	210.8	237.6	203.2	254.9	3449.7	15778.6	17869.5	18032.5
52.5°	63.2	93.9	178.2	182.1	172.5	224.2	3656.7	16382.3	18153.2	18287.3
55°	53.7	78.6	116.9	134.2	155.2	203.2	3811.9	17311.8	18829.7	18956.2
57.5°	42.2	67.1	90.1	107.3	138.0	185.9	3833.0	18028.6	19686.4	19768.8
59°	36.4	57.5	80.5	95.8	126.5	174.4	3746.8	18072.7	19742.0	19874.2
60°	30.7	51.7	70.9	90.1	116.9	164.8	3652.9	17752.6	19535.0	19682.6
62.5°	23.0	40.2	51.7	72.8	95.8	141.8	3208.2	16635.3	18743.5	18847.0
65°	15.3	28.7	38.3	53.7	74.7	122.7	2614.1	15186.4	17520.7	17752.6
67.5°	9.6	21.1	30.7	40.2	61.3	103.5	1862.8	13022.7	15809.3	15958.8
70°	5.7	13.4	23.0	32.6	47.9	82.4	1105.8	10293.6	13153.0	13183.7
72.5°	3.8	9.6	15.3	23.0	38.3	74.7	536.6	6709.7	9603.6	9969.7
75°	1.9	5.7	9.6	17.2	30.7	61.3	256.8	4482.7	6987.6	7093.0
77.5°	0.0	1.9	5.7	11.5	23.0	47.9	149.5	2943.8	4764.4	4873.7
80°	0.0	0.0	3.8	9.6	17.2	30.7	90.1	1736.4	2886.3	2939.9
82.5°	0.0	0.0	1.9	7.7	11.5	23.0	46.0	762.8	1889.7	1908.8
85°	0.0	0.0	1.9	7.7	9.6	15.3	17.2	103.5	839.4	854.8
87.5°	0.0	0.0	1.9	9.6	9.6	9.6	9.6	5.7	70.9	88.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)