

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: P457163

Luminaire Tested: **GLAN-SA8C-727-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457163  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8C-727-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40925 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

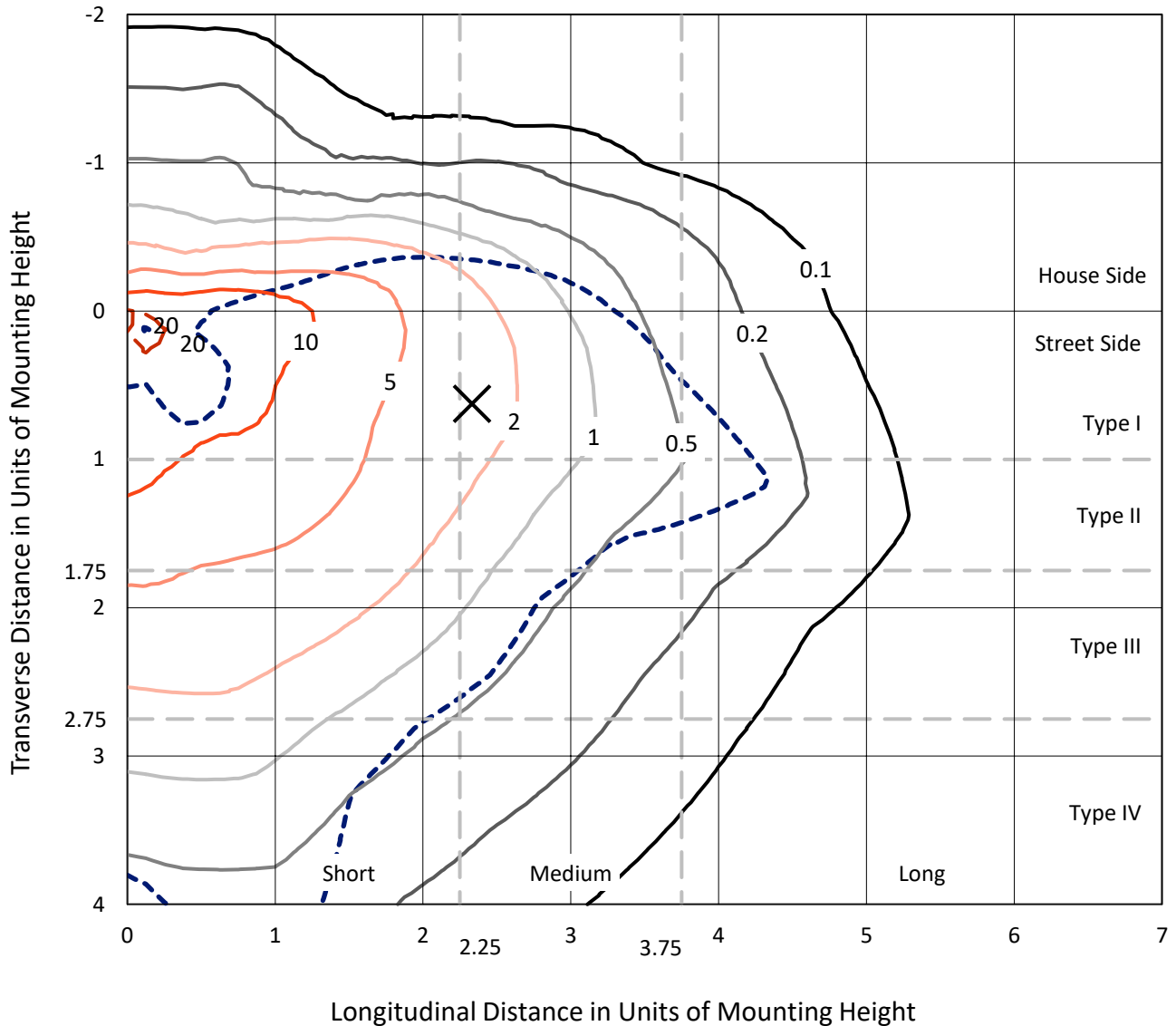
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

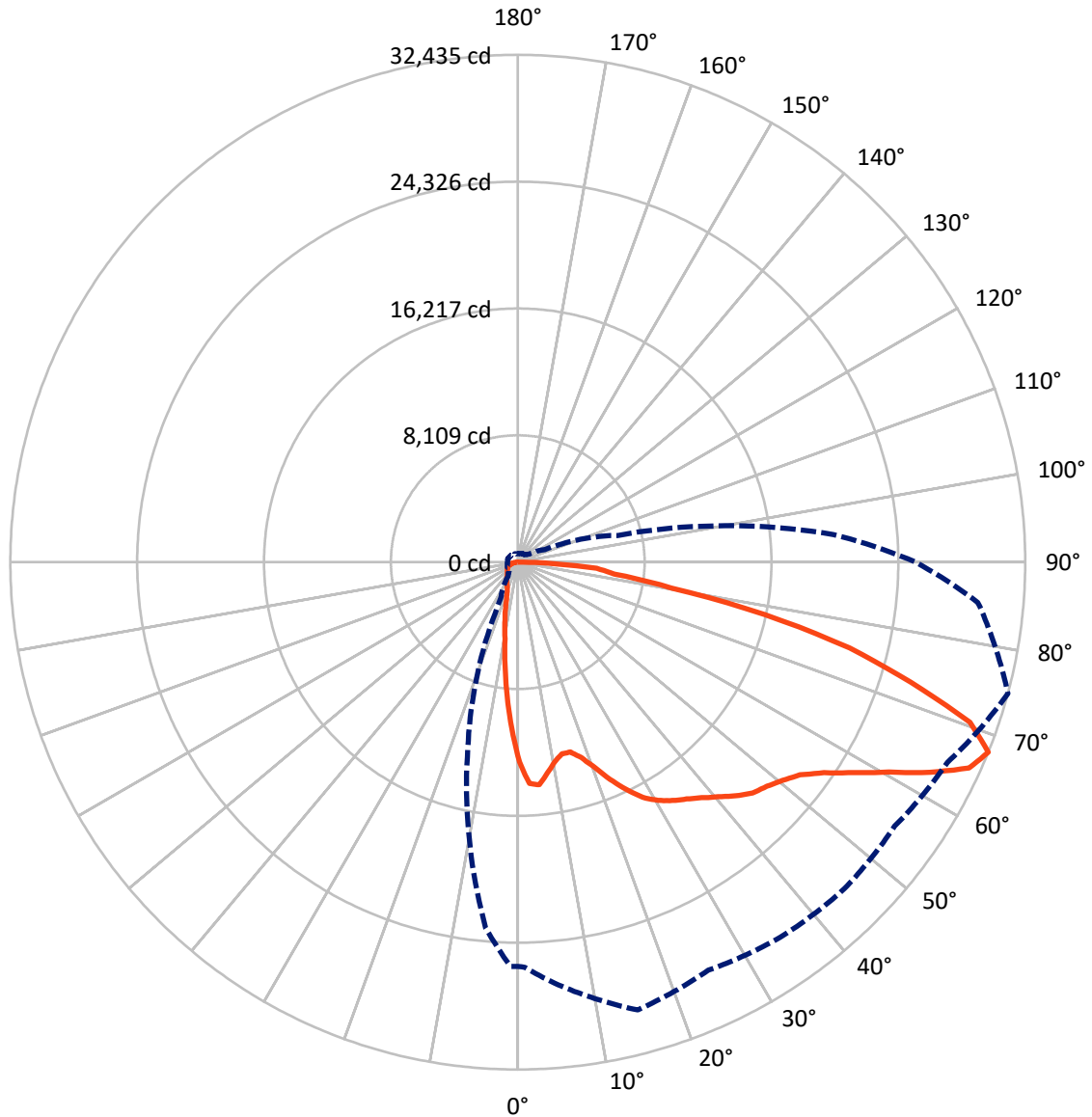
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.2 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	6917.2	0.0	6917.2
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	34007.8	0.0	34007.8
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	40925.0	0.0	40925.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	969.8	2.4
10°-20°	2022.5	4.9
20°-30°	2910.4	7.1
30°-40°	4191.8	10.2
40°-50°	5888.3	14.4
50°-60°	8212.2	20.1
60°-70°	9763.7	23.9
70°-80°	5750.3	14.1
80°-90°	1216.0	3.0
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°	40925.0	100.0
0°-180°	40925.0	100.0

**Coefficient of Utilization**



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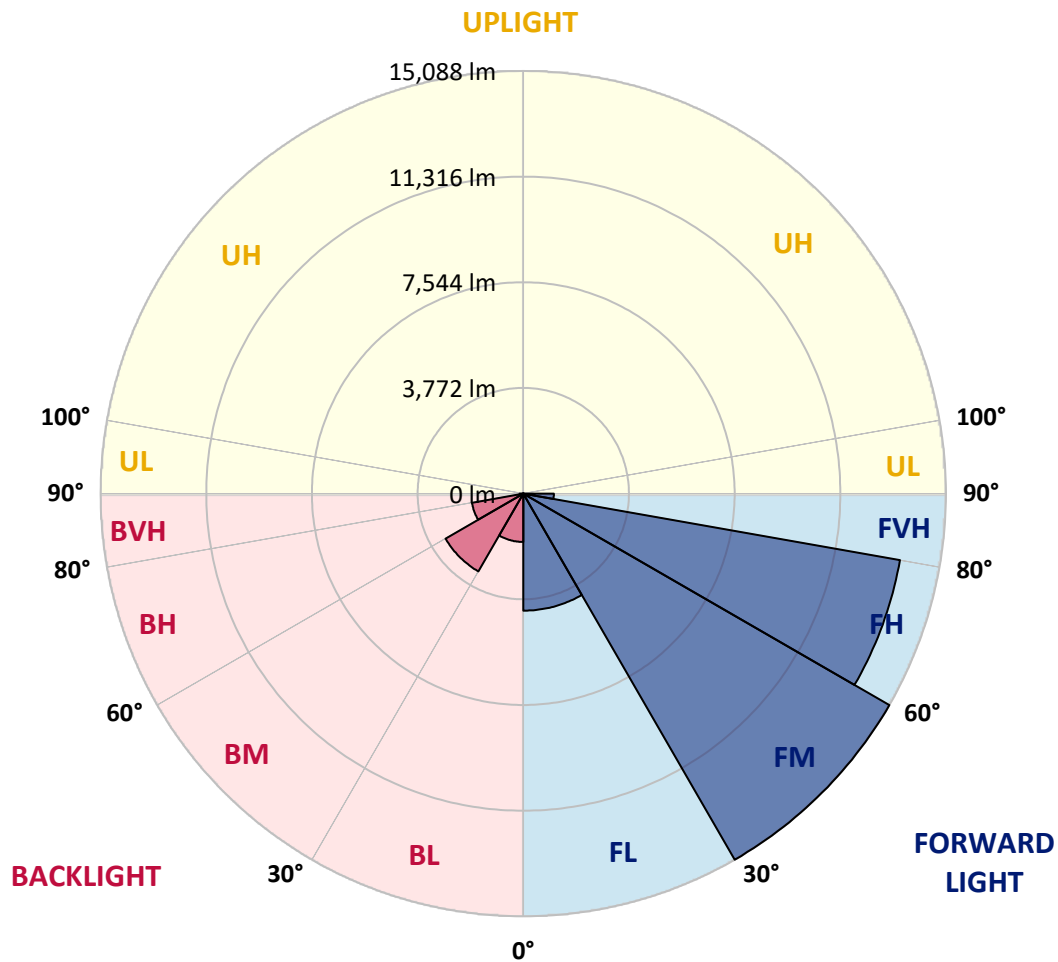
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4177.3	10.2			
FM	(30°-60°)	15087.5	36.9			
FH	(60°-80°)	13652.7	33.4			G5
FVH	(80°-90°)	1090.2	2.7			G5
BL	(0°-30°)	1725.4	4.2	B3/2500		
BM	(30°-60°)	3204.8	7.8	B3/5000		
BH	(60°-80°)	1861.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	125.8	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12785.9	12785.9	12785.9	12785.9	12785.9	12785.9	12785.9	12785.9	12785.9	12785.9	12785.9
2.5°	13785.8	13804.2	13922.3	14266.1	14502.3	14588.9	14649.2	14536.4	14426.2	14158.5	13754.3
5°	13743.8	13851.4	14158.5	14930.1	15538.9	15801.3	15880.1	15541.5	14982.5	14295.0	13468.3
7.5°	12940.8	13085.1	13557.5	14851.3	15924.7	16538.8	16457.4	15846.0	14838.2	13612.6	12457.9
10°	11988.1	12148.2	12717.7	14281.8	15664.9	16509.9	16509.9	15764.6	14426.2	12969.6	11639.1
12.5°	11232.3	11400.3	12051.1	13696.6	15124.3	15924.7	16058.5	15418.2	14129.6	12562.9	11101.1
15°	10983.0	11145.7	11846.4	13342.3	14552.1	15040.3	15084.9	14874.9	13985.3	12591.7	11077.5
17.5°	11292.7	11502.6	12211.2	13447.3	14027.3	14056.1	14090.3	14255.6	14001.0	13119.2	11555.1
20°	12187.6	12413.3	13153.4	13785.8	13568.0	13268.8	13287.2	13712.3	14187.4	13990.5	12696.7
22.5°	13478.8	13675.6	14434.0	14381.6	13373.8	12757.1	12628.5	13221.6	14462.9	15077.0	13911.8
25°	14872.3	15103.3	15974.5	15266.0	13428.9	12452.6	12371.3	12932.9	14749.0	16092.6	15315.8
27.5°	16467.9	16693.6	17381.2	16158.3	13717.6	12429.0	12331.9	12906.7	15006.2	17032.2	16656.9
30°	17654.1	17861.5	18328.6	16908.8	14071.9	12586.5	12465.8	13114.0	15226.6	17675.1	17963.8
32.5°	18585.8	18801.0	19055.6	17376.0	14539.0	12872.5	12649.5	13491.9	15515.3	18165.9	18932.2
35°	19556.8	19811.4	19793.0	17790.6	14974.7	13203.2	12985.4	14037.8	15969.3	18593.7	20160.4
37.5°	20787.6	20890.0	20758.8	18163.3	15496.9	13798.9	13678.2	14848.7	16614.9	19110.7	21596.0
40°	22036.8	22241.5	21567.1	18614.7	16132.0	14919.6	14906.4	16048.0	17381.2	19716.9	22986.9
42.5°	23107.6	23280.8	22322.9	19008.3	16901.0	16286.9	16386.6	17656.8	18386.3	20420.2	24104.9
45°	23913.3	24068.1	23021.0	19388.9	17914.0	17866.7	18454.6	19381.0	19653.9	21052.7	24760.9
47.5°	24598.2	24747.8	23506.5	19966.2	19165.8	19753.6	20777.2	21178.7	20737.8	21414.9	25495.8
50°	25175.6	25220.2	23839.8	20653.8	20719.4	22065.7	23057.7	23317.5	21808.5	21934.5	26133.5
52.5°	25776.6	25718.8	24414.5	21519.8	22399.0	24259.7	24981.4	25251.7	22834.7	22574.8	27062.5
55°	27122.9	27178.0	25703.1	22611.6	24097.0	26414.3	27364.3	27104.5	23971.0	23753.2	28243.5
57.5°	28750.0	28702.8	27516.5	24320.1	25826.4	28419.3	29127.9	28710.6	25487.9	25372.4	29440.2
60°	29382.5	29445.4	29033.4	26157.1	27532.3	30175.0	30899.4	30251.1	27306.6	27254.1	30343.0
62.5°	28747.4	29101.7	29379.8	27792.1	28986.2	31466.2	32185.3	31445.2	29204.0	29584.5	30975.5
65°	27482.4	27558.5	28505.9	29177.8	29686.9	31678.8	32054.1	31660.4	30789.1	31707.7	30946.6
67.5°	25839.6	25905.2	27015.3	29631.8	28784.1	29264.4	29526.8	29411.3	30298.4	32434.6	29521.6
70°	24275.4	24222.9	25396.0	28474.4	25057.5	24327.9	24545.7	24183.6	26144.0	30657.9	26726.6
72.5°	21231.2	21420.1	22679.8	25257.0	19840.2	18654.0	19129.0	18192.1	20107.9	26256.8	21693.1
75°	16630.6	16675.3	18777.4	21197.0	14966.8	13095.6	13738.6	13347.6	15402.4	21903.0	14979.9
77.5°	11515.7	11416.0	13675.6	16189.7	10673.3	9586.8	9597.3	9411.0	10754.7	16126.8	10177.3
80°	7314.1	7161.9	8560.7	10001.5	7335.1	7846.9	7589.7	7581.8	7001.8	9949.0	6154.2
82.5°	3952.3	4120.3	5408.8	6269.6	5261.9	6064.9	5558.4	5395.7	4805.2	6227.6	3936.6
85°	1800.3	1957.8	2884.2	4264.6	3996.9	4041.5	2700.5	3186.0	3975.9	5057.2	2102.1
87.5°	175.8	225.7	595.7	2012.9	1364.7	1076.0	401.5	774.2	999.9	1797.7	168.0
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°	12785.9	12785.9	12785.9	12785.9	12785.9	12785.9	12785.9	12785.9	12785.9	12785.9	12785.9
2.5°	13589.0	13452.5	12988.0	12604.9	12198.1	11888.4	11484.3	11213.9	11027.6	10746.8	10712.7
5°	12964.4	12631.1	11822.8	10998.7	10287.5	9752.2	9208.9	8710.3	8416.4	8324.5	8206.4
7.5°	11912.0	11350.4	10311.2	9366.4	8550.2	7752.4	7138.3	6702.6	6411.3	6240.8	6036.1
10°	11046.0	10395.1	9130.2	7972.8	7301.0	6805.0	6264.4	5797.2	5437.7	5130.6	4962.7
12.5°	10463.4	9728.5	8306.1	7366.6	6847.0	6319.5	5687.0	5162.1	4632.0	4283.0	4133.4
15°	10287.5	9510.7	8051.6	7064.8	6319.5	5629.3	4920.7	4235.7	3710.9	3380.2	3270.0
17.5°	10717.9	9778.4	8048.9	6663.3	5700.1	4876.1	3968.0	3325.1	2787.1	2540.4	2461.7
20°	11521.0	10292.8	8072.6	6267.0	5028.3	3868.3	2886.8	2359.3	2102.1	1997.1	1957.8
22.5°	12641.6	11077.5	8143.4	5876.0	4293.5	2970.8	2162.5	1894.8	1802.9	1784.6	1776.7
25°	14022.0	12048.5	8382.2	5524.3	3674.1	2267.5	1808.2	1687.5	1635.0	1616.6	1614.0
27.5°	15292.2	13302.9	8670.9	5222.5	3075.8	1955.2	1635.0	1532.6	1480.1	1477.5	1482.8
30°	16439.1	14352.7	8912.4	4884.0	2621.7	1737.3	1522.1	1419.8	1369.9	1367.3	1383.0
32.5°	17431.1	15216.1	9090.8	4550.7	2369.8	1603.5	1419.8	1309.6	1267.6	1259.7	1267.6
35°	18491.3	16076.9	9009.5	4290.8	2225.5	1493.3	1343.7	1236.1	1186.2	1162.6	1162.6
37.5°	19701.2	16963.9	8870.4	4075.6	2159.9	1401.4	1278.1	1173.1	1123.2	1099.6	1097.0
40°	21021.2	17851.0	8678.8	3884.1	2094.2	1346.3	1233.5	1123.2	1062.9	1039.3	1034.0
42.5°	22186.4	18609.4	8521.3	3758.1	1986.6	1356.8	1194.1	1086.5	1010.4	978.9	976.3
45°	23199.4	19373.1	8492.5	3684.6	1897.4	1341.1	1183.6	1057.6	968.4	934.3	929.0
47.5°	23992.0	20168.3	8657.8	3642.6	1800.3	1257.1	1251.8	1039.3	931.7	894.9	889.7
50°	24957.8	21296.8	9035.7	3556.0	1711.1	1178.3	1322.7	1036.6	902.8	855.5	842.4
52.5°	26243.7	22766.4	9547.5	3401.2	1582.5	1104.9	1262.3	1036.6	868.7	821.4	805.7
55°	28188.4	24640.2	10048.7	3183.4	1401.4	1007.8	1139.0	1005.1	818.8	776.8	766.3
57.5°	29476.9	26010.1	10368.9	2881.6	1175.7	936.9	981.5	955.3	768.9	724.3	724.3
60°	29542.6	26377.6	10216.7	2501.0	1034.0	871.3	852.9	963.1	724.3	677.1	671.8
62.5°	28786.7	25477.4	9424.1	2159.9	957.9	800.4	771.6	845.0	679.7	632.5	624.6
65°	27605.8	23181.1	8048.9	1997.1	915.9	737.4	695.5	692.8	632.5	587.9	577.4
67.5°	25435.4	20257.5	6613.4	1902.7	894.9	666.6	627.2	614.1	577.4	540.6	535.4
70°	22236.3	16966.6	5303.9	1863.3	884.4	593.1	561.6	545.9	514.4	485.5	482.9
72.5°	17299.9	13762.2	4377.5	1837.1	879.2	524.9	490.8	469.8	451.4	425.1	425.1
75°	12426.4	10124.8	3340.8	1656.0	813.6	451.4	414.7	401.5	375.3	354.3	359.5
77.5°	7833.7	6818.1	2199.2	1217.7	629.8	362.2	330.7	322.8	301.8	272.9	291.3
80°	5290.7	4794.7	1283.3	766.3	396.3	265.1	254.6	251.9	228.3	196.8	199.5
82.5°	3600.6	3532.4	666.6	435.6	228.3	154.8	149.6	154.8	128.6	105.0	105.0
85°	1406.7	1921.0	314.9	170.6	73.5	23.6	34.1	36.7	21.0	10.5	13.1
87.5°	26.2	196.8	7.9	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°	12785.9	12785.9	12785.9	12785.9	12785.9	12785.9	12785.9	12785.9	12785.9	12785.9	12785.9
2.5°	10660.2	10636.6	10675.9	10508.0	10542.1	10605.1	10636.6	10654.9	10914.8	10854.4	11019.7
5°	8316.6	8293.0	8445.2	8466.2	8545.0	8529.2	8605.3	8623.7	8718.2	8752.3	8983.2
7.5°	6049.2	6151.5	6324.7	6414.0	6547.8	6589.8	6550.4	6647.5	6450.7	6592.4	6634.4
10°	4860.3	4737.0	4663.5	4868.2	4894.5	5088.7	5009.9	4946.9	5062.4	5067.7	5177.9
12.5°	4046.8	3781.7	3605.9	3663.6	3726.6	3810.6	3823.7	3949.7	4033.7	4112.4	4178.0
15°	3172.9	3081.0	2920.9	2842.2	2931.4	2965.5	3046.9	3151.9	3241.1	3264.7	3353.9
17.5°	2435.4	2451.2	2424.9	2377.7	2432.8	2459.0	2464.3	2466.9	2490.5	2474.8	2606.0
20°	1960.4	2015.5	2081.1	2091.6	2110.0	2123.1	2099.5	2010.3	2012.9	2068.0	2110.0
22.5°	1774.1	1784.6	1858.1	1881.7	1939.4	1915.8	1847.6	1805.6	1800.3	1813.4	1834.4
25°	1627.1	1642.9	1695.3	1732.1	1776.7	1734.7	1684.8	1645.5	1640.2	1653.4	1674.3
27.5°	1495.9	1519.5	1566.7	1603.5	1645.5	1606.1	1558.9	1524.8	1522.1	1519.5	1532.6
30°	1390.9	1417.2	1451.3	1493.3	1522.1	1488.0	1443.4	1425.0	1422.4	1417.2	1422.4
32.5°	1285.9	1327.9	1362.0	1383.0	1411.9	1385.7	1351.6	1341.1	1322.7	1306.9	1299.1
35°	1167.8	1212.5	1264.9	1291.2	1320.1	1293.8	1270.2	1225.6	1194.1	1191.5	1196.7
37.5°	1099.6	1118.0	1160.0	1204.6	1233.5	1220.3	1175.7	1131.1	1123.2	1123.2	1128.5
40°	1039.3	1047.1	1065.5	1123.2	1175.7	1136.4	1081.2	1068.1	1068.1	1065.5	1068.1
42.5°	978.9	986.8	986.8	1031.4	1115.4	1052.4	1010.4	1010.4	1010.4	1013.0	1020.9
45°	923.8	926.4	923.8	955.3	1034.0	981.5	952.6	960.5	965.8	971.0	976.3
47.5°	876.5	879.2	876.5	902.8	942.1	921.2	905.4	915.9	926.4	934.3	939.5
50°	834.6	831.9	837.2	852.9	871.3	876.5	866.0	881.8	887.0	897.5	910.7
52.5°	797.8	795.2	800.4	808.3	834.6	834.6	834.6	847.7	858.2	868.7	887.0
55°	755.8	758.4	766.3	776.8	810.9	805.7	808.3	818.8	829.3	845.0	855.5
57.5°	716.5	721.7	732.2	747.9	782.1	779.4	782.1	787.3	800.4	808.3	818.8
60°	671.8	682.3	695.5	706.0	740.1	737.4	750.6	761.1	768.9	768.9	774.2
62.5°	627.2	643.0	656.1	664.0	700.7	703.3	721.7	729.6	734.8	729.6	737.4
65°	582.6	606.2	611.5	622.0	658.7	661.3	682.3	700.7	695.5	690.2	703.3
67.5°	538.0	566.9	564.2	577.4	614.1	619.4	637.7	669.2	658.7	653.5	664.0
70°	488.1	509.1	511.8	519.6	569.5	561.6	590.5	619.4	611.5	614.1	614.1
72.5°	433.0	451.4	451.4	467.1	519.6	506.5	530.1	561.6	561.6	559.0	559.0
75°	367.4	377.9	388.4	412.0	467.1	451.4	467.1	496.0	501.3	496.0	496.0
77.5°	296.6	312.3	317.5	349.0	388.4	385.8	401.5	414.7	425.1	419.9	419.9
80°	209.9	225.7	246.7	280.8	304.4	312.3	320.2	330.7	335.9	335.9	341.2
82.5°	118.1	141.7	160.1	194.2	204.7	244.1	241.4	249.3	241.4	212.6	236.2
85°	26.2	49.9	70.9	89.2	102.4	141.7	149.6	168.0	139.1	128.6	128.6
87.5°	0.0	0.0	0.0	0.0	0.0	21.0	42.0	57.7	49.9	42.0	42.0
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°	12785.9	12785.9	12785.9	12785.9	12785.9	12785.9	12785.9	12785.9	12785.9	12785.9
2.5°	11158.8	11387.1	11662.7	12137.7	12471.0	12830.6	13192.7	13578.5	13680.8	13785.8
5°	9046.2	9495.0	9739.0	10376.8	11046.0	11896.3	12591.7	13352.8	13670.4	13743.8
7.5°	6852.2	7156.7	7797.0	8442.6	9271.9	10164.2	11229.7	12415.9	12785.9	12940.8
10°	5432.4	5847.1	6408.7	7101.5	7828.5	8789.0	9991.0	11376.7	11901.5	11988.1
12.5°	4624.1	5086.0	5697.5	6429.7	7117.3	7841.6	9054.1	10484.4	11046.0	11232.3
15°	3697.7	4256.7	4962.7	5734.3	6482.2	7274.8	8503.0	10117.0	10765.2	10983.0
17.5°	2905.2	3356.6	4120.3	4957.4	5844.5	6847.0	8387.5	10292.8	11090.6	11292.7
20°	2222.8	2545.6	3188.6	4073.0	5112.3	6424.5	8416.4	10956.8	11912.0	12187.6
22.5°	1921.0	2086.4	2477.4	3319.8	4482.4	6057.0	8534.5	11867.4	13019.5	13478.8
25°	1740.0	1826.6	2047.0	2598.1	3881.4	5700.1	8804.8	13093.0	14567.9	14872.3
27.5°	1585.1	1648.1	1784.6	2180.9	3335.6	5369.5	9119.7	14452.4	16013.9	16467.9
30°	1438.2	1522.1	1650.7	1936.8	2986.5	5067.7	9516.0	15554.7	17231.6	17654.1
32.5°	1325.3	1409.3	1527.4	1766.2	2690.0	4750.1	9752.2	16523.0	18226.3	18585.8
35°	1233.5	1304.3	1427.7	1629.7	2464.3	4508.7	9704.9	17292.0	19189.4	19556.8
37.5°	1167.8	1228.2	1351.6	1501.1	2293.7	4256.7	9681.3	18307.6	20362.5	20787.6
40°	1107.5	1170.5	1283.3	1417.2	2123.1	3960.2	9694.4	19315.4	21611.7	22036.8
42.5°	1060.2	1131.1	1223.0	1393.5	1947.3	3721.4	9694.4	20191.9	22698.2	23107.6
45°	1020.9	1097.0	1186.2	1390.9	1808.2	3540.3	9628.8	20945.1	23564.2	23913.3
47.5°	986.8	1070.7	1199.3	1343.7	1774.1	3409.1	9571.1	21548.7	24270.2	24598.2
50°	963.1	1062.9	1275.4	1288.6	1784.6	3369.7	9849.3	22309.8	24892.2	25175.6
52.5°	944.8	1065.5	1272.8	1207.2	1766.2	3395.9	10429.3	23498.6	25755.6	25776.6
55°	908.0	1062.9	1207.2	1115.4	1690.1	3440.6	11174.6	25225.5	27107.1	27122.9
57.5°	871.3	1034.0	1120.6	1036.6	1535.3	3440.6	12072.1	26860.4	28736.9	28750.0
60°	834.6	1076.0	984.1	968.4	1333.2	3377.6	13019.5	27579.5	29248.6	29382.5
62.5°	797.8	1083.9	879.2	908.0	1186.2	3225.4	13725.5	26784.3	28555.8	28747.4
65°	755.8	873.9	810.9	845.0	1110.1	2970.8	13502.4	25327.8	27254.1	27482.4
67.5°	706.0	740.1	737.4	779.4	1083.9	2595.5	12326.7	23485.5	25852.7	25839.6
70°	645.6	664.0	671.8	716.5	1034.0	2304.2	10271.8	21094.7	23981.5	24275.4
72.5°	582.6	598.4	606.2	645.6	984.1	2138.9	7972.8	17801.1	20771.9	21231.2
75°	514.4	524.9	535.4	569.5	931.7	1894.8	5679.1	13589.0	15908.9	16630.6
77.5°	443.5	443.5	456.6	490.8	784.7	1564.1	3810.6	9531.7	10778.3	11515.7
80°	359.5	362.2	356.9	393.7	577.4	1070.7	2165.1	6366.7	7172.4	7314.1
82.5°	275.6	267.7	270.3	288.7	430.4	729.6	1154.7	3954.9	4031.0	3952.3
85°	173.2	173.2	168.0	189.0	275.6	380.5	629.8	2422.3	1892.2	1800.3
87.5°	70.9	57.7	65.6	76.1	131.2	154.8	246.7	498.6	191.6	175.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)