

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: P324435

Luminaire Tested: **GAN-SA1B-730-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324435  
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-SA1B-730-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4040 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G1

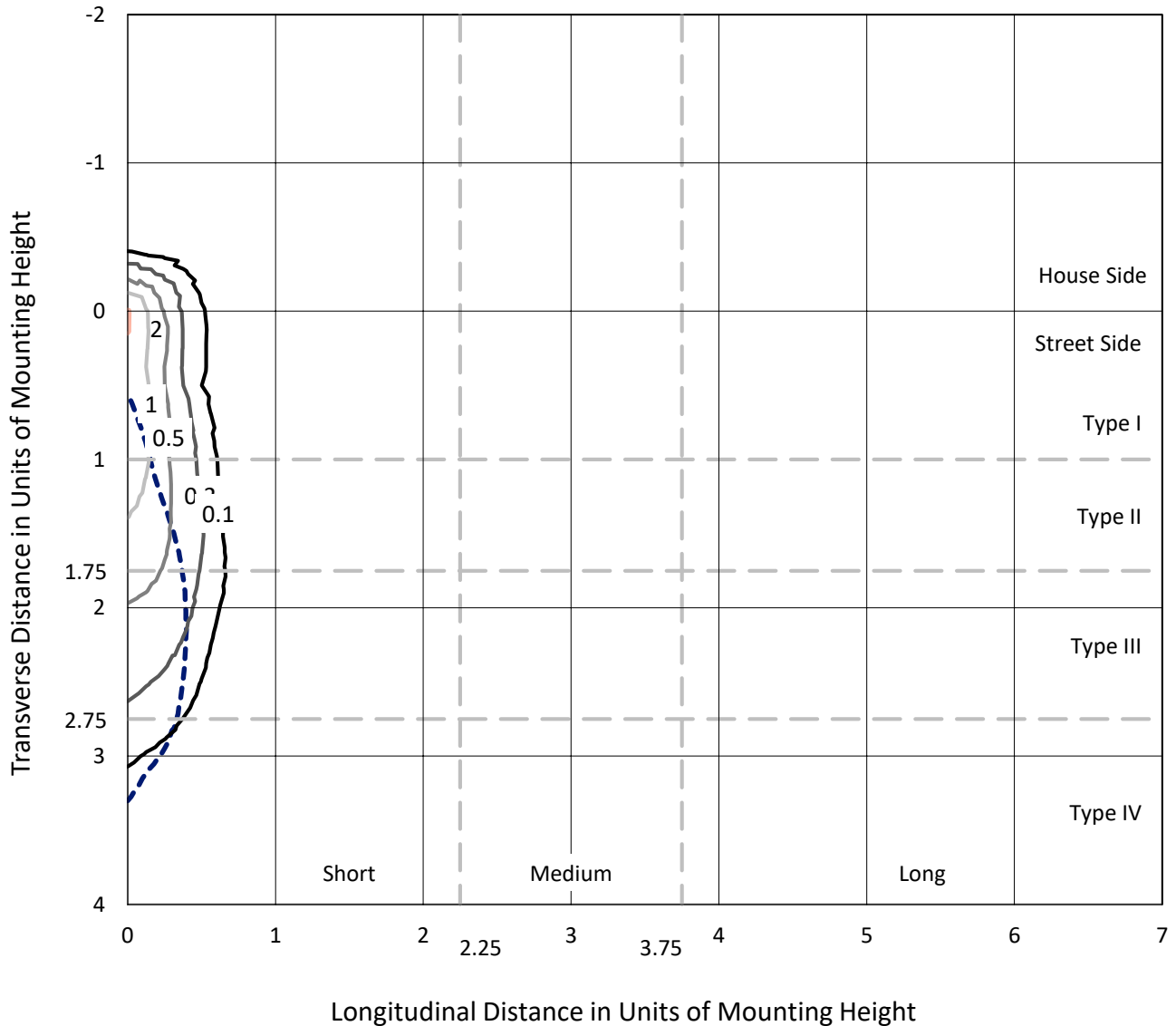
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

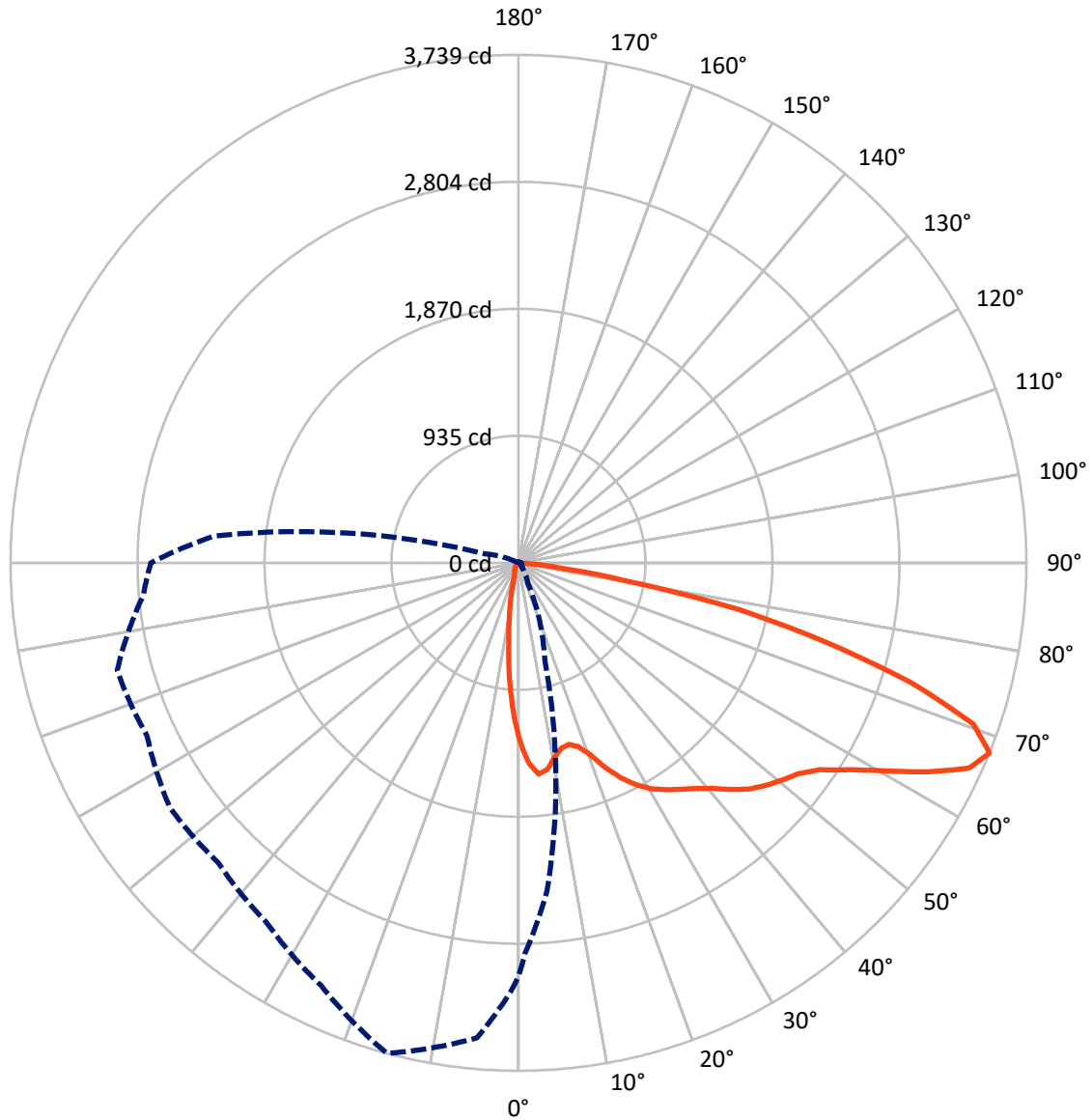
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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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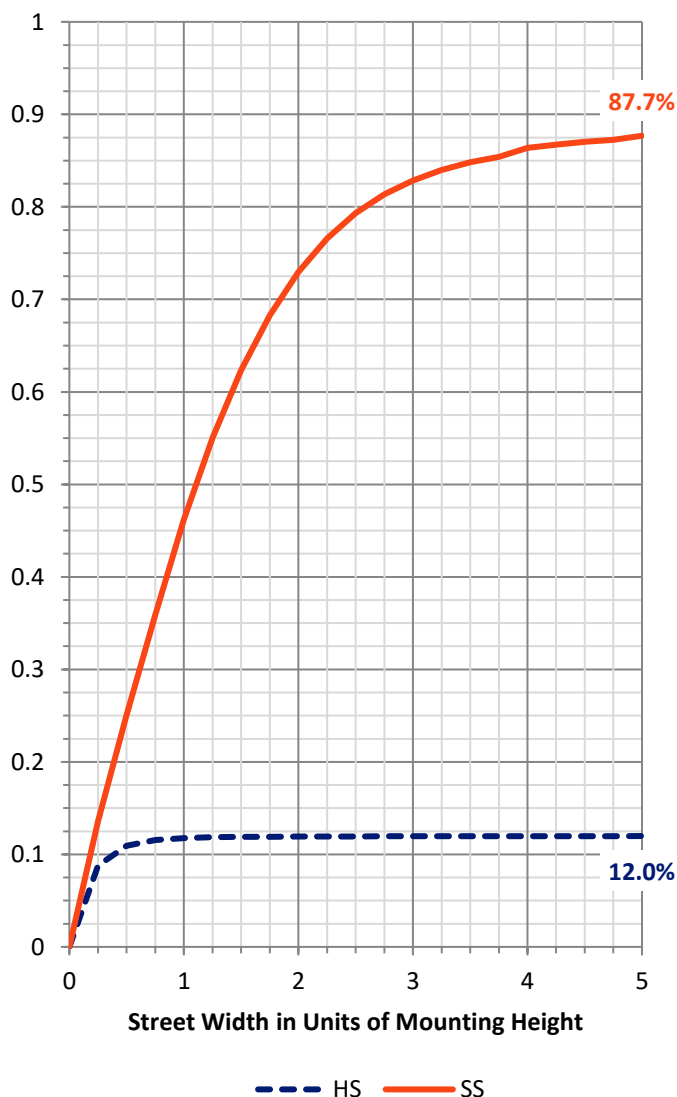
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	489.0	0.0	489.0
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	3551.0	0.0	3551.0
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	4040.0	0.0	4040.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.0	2.5
10°-20°	201.0	5.0
20°-30°	285.5	7.1
30°-40°	421.7	10.4
40°-50°	608.2	15.1
50°-60°	853.7	21.1
60°-70°	995.2	24.6
70°-80°	508.8	12.6
80°-90°	65.0	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°	4040.0	100.0
0°-180°	4040.0	100.0

**Coefficient of Utilization**

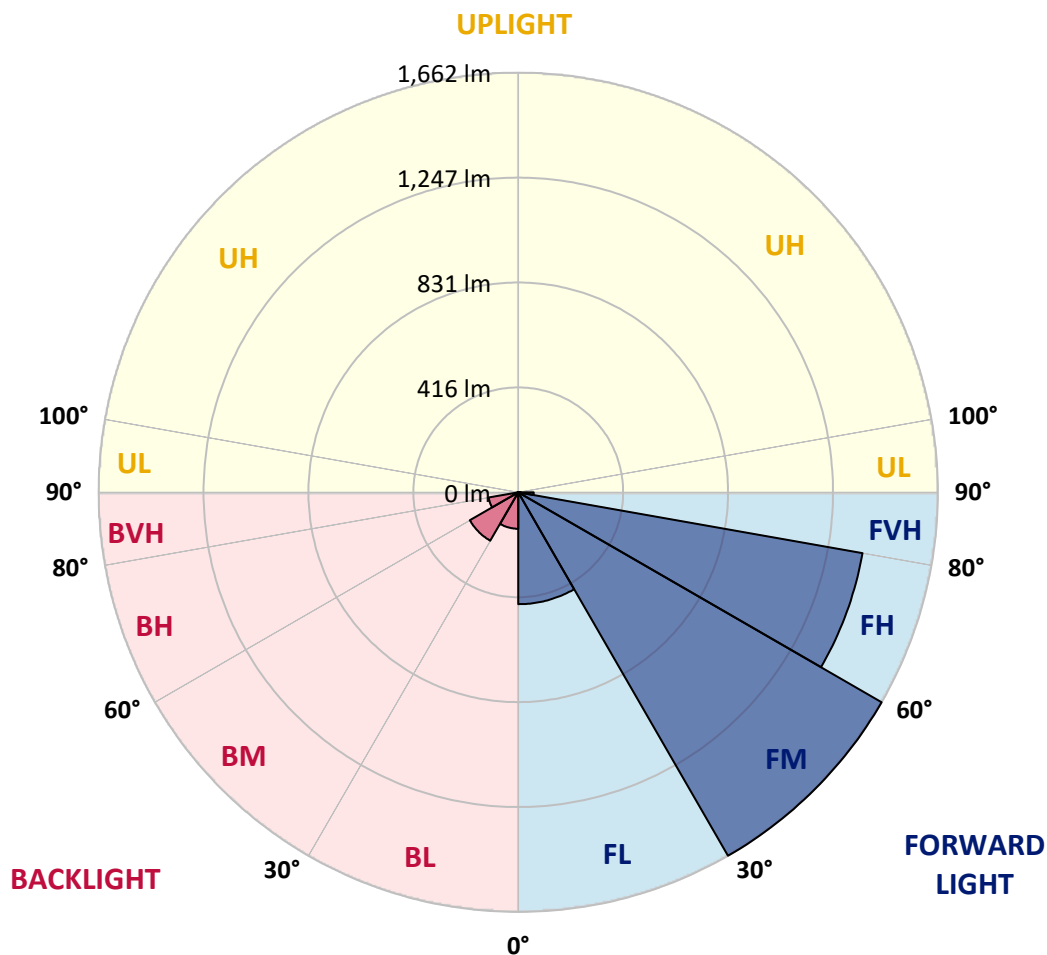


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	443.1	11.0			
FM (30°-60°)	1662.1	41.1			
FH (60°-80°)	1384.8	34.3			G1/1800
FVH (80°-90°)	61.0	1.5			G1/100
BL (0°-30°)	144.4	3.6	B1/500		
BM (30°-60°)	221.4	5.5	B1/1000		
BH (60°-80°)	119.2	2.9	B1/500		G1/500
BVH (80°-90°)	3.9	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-G1**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0
2.5°	1441.0	1429.9	1417.7	1377.7	1340.5	1298.0	1263.4	1239.3	1209.0	1169.8	1159.8
5°	1430.7	1418.8	1380.3	1291.3	1213.4	1137.6	1064.5	1021.7	968.5	914.5	901.1
7.5°	1326.7	1314.3	1258.8	1136.9	1032.0	922.5	827.6	768.8	708.7	659.4	633.1
10°	1218.6	1205.0	1142.6	994.7	865.5	766.5	696.9	640.8	583.9	531.1	489.0
12.5°	1144.2	1126.4	1058.6	890.9	778.4	711.2	646.1	579.0	502.0	445.4	399.1
15°	1113.0	1092.7	1021.1	850.9	747.6	668.7	583.9	501.5	411.3	346.4	303.9
17.5°	1137.1	1110.7	1033.9	848.3	708.9	601.6	494.4	397.5	299.7	234.1	203.8
20°	1219.0	1184.3	1086.9	847.5	662.0	521.7	385.8	276.4	197.5	158.9	143.0
22.5°	1348.0	1302.2	1163.1	853.6	613.6	437.9	278.7	187.8	148.3	128.2	118.9
25°	1503.8	1450.8	1272.8	875.2	571.1	356.4	202.5	148.3	125.2	110.4	102.6
27.5°	1651.9	1608.9	1411.3	906.4	538.2	290.5	164.4	125.7	107.0	97.2	90.9
30°	1799.9	1745.7	1553.5	943.6	498.6	245.9	144.5	114.6	95.9	85.6	81.5
32.5°	1907.4	1862.5	1664.9	970.4	456.3	216.8	129.2	104.9	89.6	79.0	73.1
35°	2033.9	1983.0	1760.4	976.3	429.1	198.5	116.2	94.4	77.7	68.3	62.0
37.5°	2170.6	2107.2	1870.7	963.3	407.9	189.5	106.4	89.6	72.5	63.0	56.3
40°	2321.8	2250.2	1976.5	944.5	387.0	186.4	99.0	85.9	68.5	58.8	51.9
42.5°	2481.0	2396.6	2068.2	924.8	373.8	175.9	98.2	82.3	65.5	54.9	48.0
45°	2614.8	2529.3	2162.4	918.3	364.4	164.4	101.4	79.8	63.4	51.9	45.2
47.5°	2721.4	2640.5	2258.8	932.9	359.1	153.9	92.4	83.1	62.2	49.2	42.7
50°	2848.7	2757.0	2394.7	976.3	351.2	143.4	83.6	95.1	62.2	47.5	40.6
52.5°	3008.3	2917.6	2546.3	1043.7	335.5	128.8	75.2	95.3	62.8	45.2	37.9
55°	3209.1	3143.3	2762.8	1117.5	310.4	107.4	65.1	81.9	60.5	41.0	35.4
57.5°	3401.6	3347.9	2960.1	1168.1	276.9	83.8	56.7	66.0	55.3	36.0	31.6
59°	3454.3	3395.5	3032.4	1170.4	251.9	73.1	52.4	54.5	54.2	33.7	29.3
60°	3454.3	3391.9	3053.3	1158.1	233.7	67.2	49.8	48.6	56.5	32.2	27.9
62.5°	3391.7	3304.0	2985.5	1075.2	190.6	57.2	43.4	40.2	50.7	28.9	24.7
65°	3261.5	3133.9	2754.7	925.4	170.0	52.4	37.5	32.9	35.2	25.5	21.6
67.5°	3044.5	2871.5	2421.9	747.6	161.7	51.1	32.3	27.9	26.6	21.8	18.9
70°	2662.3	2470.3	2017.9	587.8	154.6	50.5	27.2	23.5	21.4	18.4	16.1
72.5°	1937.7	1737.5	1432.6	459.5	150.4	51.7	21.8	19.7	17.6	14.4	12.4
75°	1108.4	977.3	805.2	303.6	128.2	49.4	16.8	16.5	12.6	10.3	8.6
77.5°	572.6	555.2	482.5	116.6	61.4	21.6	11.1	9.6	7.5	6.3	5.2
80°	247.1	244.4	211.5	33.7	16.3	12.1	6.3	4.0	3.4	2.7	2.1
82.5°	85.4	85.4	75.2	11.3	7.3	5.9	0.8	0.0	0.0	0.0	0.0
85°	17.2	19.3	13.6	0.0	2.5	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°	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0
2.5°	1147.8	1124.6	1123.1	1108.6	1090.4	1082.1	1077.4	1085.8	1096.1	1097.3	1112.8
5°	890.9	866.6	876.8	850.9	856.1	850.9	842.5	844.0	848.6	834.3	852.1
7.5°	625.7	607.3	619.0	612.1	621.3	624.9	619.7	612.1	589.5	586.8	602.3
10°	471.6	450.7	438.3	425.3	428.1	434.1	432.2	426.6	412.3	413.0	428.0
12.5°	379.0	355.6	330.9	299.0	291.1	295.5	291.1	287.9	274.1	275.2	288.4
15°	287.5	268.3	242.5	216.8	202.9	204.2	192.0	183.4	174.7	164.4	172.4
17.5°	194.1	182.4	174.7	167.1	150.4	146.6	131.1	114.5	107.9	103.2	106.6
20°	137.4	131.1	128.0	127.7	118.1	113.3	98.2	87.8	84.6	83.6	85.7
22.5°	114.8	110.2	105.8	103.4	98.6	93.0	81.5	76.4	74.1	72.9	74.5
25°	99.9	96.5	91.9	87.7	85.7	79.8	71.6	67.8	66.2	65.1	65.8
27.5°	88.8	85.7	80.4	77.7	76.2	71.0	63.9	60.9	59.5	59.1	58.9
30°	80.0	77.1	72.2	69.1	66.4	61.8	57.6	54.5	53.2	52.8	52.4
32.5°	71.2	68.9	65.6	62.6	59.7	55.5	51.9	49.4	47.3	46.9	46.7
35°	60.1	57.8	56.1	55.9	53.2	49.2	46.5	43.3	41.5	41.0	41.1
37.5°	53.4	50.3	46.5	47.8	47.1	44.2	40.6	37.3	35.6	35.2	35.2
40°	49.2	45.9	41.5	39.2	41.5	41.0	35.2	32.0	30.2	30.0	29.7
42.5°	45.2	41.9	36.9	33.1	34.3	36.0	30.4	27.4	25.6	25.3	24.7
45°	42.3	38.9	33.3	28.9	26.6	30.2	26.0	22.2	21.2	20.5	20.1
47.5°	39.6	36.4	30.0	25.1	21.2	21.8	20.9	18.2	17.0	16.3	16.1
50°	37.3	33.9	27.2	21.4	17.6	16.1	16.8	14.4	13.4	12.6	12.2
52.5°	34.6	31.4	24.1	18.6	14.7	12.6	12.8	11.3	10.3	9.8	9.6
55°	32.5	29.3	21.6	16.3	13.0	10.3	9.2	8.8	8.2	7.8	7.7
57.5°	29.7	26.6	19.1	13.8	11.1	8.4	7.1	7.1	6.9	6.5	6.3
59°	27.9	25.3	17.6	12.4	10.1	7.3	6.3	6.5	6.3	5.9	5.7
60°	26.6	24.1	16.5	11.5	9.6	6.7	5.7	6.1	5.9	5.6	5.4
62.5°	23.5	21.8	14.2	9.6	8.4	5.4	4.8	5.2	5.2	5.0	4.8
65°	20.7	18.8	12.1	8.0	7.8	4.6	3.8	4.6	4.8	4.4	4.0
67.5°	18.0	16.1	10.5	6.5	7.3	3.6	2.9	3.8	5.2	4.0	3.6
70°	15.3	13.4	8.2	5.2	7.7	2.5	2.3	3.4	6.1	4.4	3.4
72.5°	11.9	10.3	5.7	3.8	8.2	1.7	1.7	2.9	6.9	4.8	3.3
75°	8.2	6.7	3.4	2.3	6.7	1.1	1.1	2.7	6.5	4.4	3.1
77.5°	4.8	3.6	1.1	0.2	3.4	0.0	0.2	1.9	4.6	2.7	1.3
80°	1.7	0.8	0.0	0.0	2.1	0.0	0.0	0.0	0.4	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°	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0
2.5°	1116.8	1142.6	1165.8	1200.8	1242.3	1290.2	1331.3	1375.5	1417.1	1434.3	1446.2
5°	855.7	887.7	925.0	976.5	1045.0	1129.4	1208.5	1297.8	1393.9	1442.0	1487.1
7.5°	605.0	637.5	683.8	738.6	821.5	921.9	1025.3	1148.7	1278.9	1354.9	1429.7
10°	435.0	475.0	518.3	593.1	677.3	772.7	879.1	1016.9	1162.0	1246.2	1336.3
12.5°	296.1	341.6	407.1	490.9	589.9	683.3	775.7	907.2	1075.6	1159.1	1255.7
15°	177.6	202.9	272.2	369.2	490.5	606.9	708.2	840.0	1019.6	1121.8	1222.2
17.5°	109.5	121.2	158.9	238.5	365.9	513.1	651.9	817.3	1027.6	1152.0	1259.6
20°	87.3	91.9	103.9	140.9	242.5	409.8	588.5	812.7	1093.2	1246.4	1361.8
22.5°	75.8	80.2	88.2	102.4	152.5	306.8	528.4	816.9	1187.4	1387.8	1522.5
25°	66.8	70.6	78.3	90.0	111.8	216.1	464.1	835.6	1310.1	1563.3	1706.5
27.5°	59.7	63.0	70.1	80.8	95.9	150.8	391.2	858.4	1455.5	1742.8	1884.1
30°	53.2	56.1	62.4	72.3	83.3	116.0	311.2	873.9	1601.2	1884.1	2011.0
32.5°	47.7	49.8	55.5	63.9	72.3	92.4	236.6	871.4	1709.3	2001.6	2102.3
35°	41.9	44.0	49.0	56.3	63.0	76.4	186.0	824.9	1803.5	2123.5	2206.8
37.5°	35.6	38.3	43.1	49.6	54.2	67.2	150.4	768.8	1899.0	2262.8	2323.3
40°	30.2	32.9	37.1	44.2	47.1	63.7	115.6	700.5	2006.4	2418.6	2451.2
42.5°	25.1	27.6	32.0	38.1	44.4	54.9	85.6	622.4	2109.5	2551.9	2567.7
45°	20.3	22.8	27.4	33.5	47.5	45.6	66.2	538.8	2192.8	2662.7	2667.8
47.5°	16.1	18.4	23.2	31.6	44.2	36.4	47.3	473.1	2262.7	2749.2	2735.6
50°	12.4	14.4	19.3	36.2	38.7	30.0	35.8	451.3	2325.2	2802.8	2767.6
52.5°	9.8	11.5	15.9	33.9	30.0	24.9	30.0	471.8	2411.0	2847.2	2785.5
55°	7.8	9.6	12.4	19.3	20.5	21.1	25.6	490.9	2558.9	2951.3	2891.8
57.5°	6.5	8.2	10.1	13.6	15.5	17.8	22.8	493.0	2733.3	3124.3	3068.0
59°	5.9	7.5	9.2	12.1	13.6	16.3	21.4	481.5	2794.7	3187.3	3159.1
60°	5.6	7.1	8.6	11.1	12.6	15.3	20.7	470.6	2797.4	3185.0	3198.0
62.5°	4.8	6.3	7.7	9.4	10.7	13.0	18.6	430.3	2684.1	3080.7	3174.6
65°	4.2	5.6	6.9	8.0	9.2	11.7	16.8	356.6	2490.6	2912.4	3014.8
67.5°	3.8	4.8	6.3	7.1	8.2	10.3	14.9	254.2	2248.9	2706.7	2773.1
70°	3.4	4.6	5.7	6.5	7.5	9.0	12.8	146.0	1899.0	2405.4	2452.7
72.5°	3.3	4.4	5.2	6.1	6.7	8.0	11.7	68.7	1390.5	1927.0	2050.4
75°	2.9	4.0	4.8	5.7	6.3	7.3	10.0	32.9	924.8	1394.5	1534.8
77.5°	1.7	3.3	4.4	5.2	5.6	6.3	8.2	18.9	590.3	965.2	1136.9
80°	0.0	1.1	3.3	4.4	4.8	5.4	6.3	14.9	315.8	551.4	661.8
82.5°	0.0	0.0	2.3	3.4	3.3	3.6	4.8	9.4	142.4	360.4	406.1
85°	0.0	0.0	0.8	2.7	2.3	1.7	3.3	3.3	31.2	182.4	227.6
87.5°	0.0	0.0	0.0	0.2	1.1	0.8	1.3	0.4	0.2	13.6	55.1
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°	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0	1316.0
2.5°	1487.7	1501.9	1525.8	1537.1	1531.5	1508.0	1479.9	1451.1	1434.3	1441.0
5°	1579.2	1652.1	1694.2	1708.2	1684.8	1632.0	1562.9	1471.8	1439.5	1430.7
7.5°	1579.2	1716.4	1803.3	1818.6	1766.6	1663.0	1533.4	1391.2	1344.0	1326.7
10°	1523.7	1710.5	1831.6	1855.9	1783.2	1628.4	1454.8	1292.5	1236.4	1218.6
12.5°	1461.1	1662.3	1789.9	1823.4	1763.7	1593.9	1400.2	1225.7	1159.7	1144.2
15°	1422.6	1602.9	1708.6	1732.9	1707.6	1573.8	1387.2	1205.6	1127.9	1113.0
17.5°	1436.4	1557.0	1595.1	1609.2	1626.3	1566.7	1422.6	1249.6	1151.2	1137.1
20°	1488.3	1508.6	1488.9	1506.7	1552.6	1573.6	1507.0	1356.0	1237.9	1219.0
22.5°	1576.3	1483.5	1428.2	1435.3	1491.1	1596.4	1636.0	1508.0	1371.7	1348.0
25°	1678.9	1503.8	1394.5	1388.2	1445.6	1626.5	1753.9	1673.4	1530.0	1503.8
27.5°	1807.9	1549.3	1387.6	1381.3	1429.7	1654.6	1851.9	1836.8	1696.7	1651.9
30°	1907.4	1594.1	1408.1	1393.5	1445.6	1674.1	1930.6	1975.6	1829.5	1799.9
32.5°	1978.8	1646.9	1441.4	1420.3	1490.4	1707.8	1991.3	2102.7	1952.4	1907.4
35°	2033.2	1704.4	1495.2	1460.5	1552.0	1758.9	2048.1	2238.0	2083.1	2033.9
37.5°	2084.1	1784.9	1579.2	1537.8	1648.7	1841.2	2108.2	2391.5	2229.4	2170.6
40°	2155.1	1876.2	1708.8	1672.0	1811.2	1953.4	2183.2	2551.5	2395.7	2321.8
42.5°	2226.1	1974.2	1841.4	1851.4	2013.8	2089.6	2280.1	2720.7	2559.9	2481.0
45°	2291.0	2075.3	2030.3	2076.2	2202.0	2239.1	2376.3	2818.5	2691.0	2614.8
47.5°	2348.8	2201.6	2218.1	2340.4	2416.0	2374.4	2448.3	2902.9	2788.6	2721.4
50°	2416.0	2365.1	2465.5	2638.6	2662.3	2496.9	2513.8	3002.8	2902.7	2848.7
52.5°	2489.5	2537.3	2739.6	2892.1	2884.5	2629.9	2579.6	3114.7	3059.0	3008.3
55°	2572.9	2676.4	2981.0	3129.5	3123.0	2778.5	2688.7	3253.1	3255.0	3209.1
57.5°	2696.7	2796.3	3144.8	3321.4	3332.4	2949.9	2873.6	3408.1	3432.3	3401.6
59°	2785.5	2874.0	3209.7	3401.6	3446.0	3082.6	3008.7	3498.1	3482.2	3454.3
60°	2851.4	2923.3	3241.8	3443.6	3512.1	3172.5	3108.4	3550.9	3488.1	3454.3
62.5°	3014.3	3030.9	3299.8	3491.0	3588.1	3372.4	3389.0	3640.9	3447.0	3391.7
65°	3090.2	3098.9	3299.1	3406.0	3514.6	3528.0	3643.6	3643.6	3346.5	3261.5
67.5°	3058.5	3016.9	3135.4	3124.3	3232.6	3435.5	3739.3	3510.0	3154.4	3044.5
70°	2800.1	2640.3	2587.6	2592.4	2675.3	2988.2	3549.8	3116.8	2790.7	2662.3
72.5°	2329.8	1946.5	1816.5	1964.8	1986.5	2296.5	3025.2	2347.3	2058.1	1937.7
75°	1873.9	1372.1	1160.8	1317.4	1354.1	1680.6	2340.2	1461.9	1202.1	1108.4
77.5°	1346.3	984.9	832.9	822.0	869.5	1065.9	1660.5	735.7	613.6	572.6
80°	764.8	648.3	698.0	658.6	682.5	666.4	788.9	322.7	264.3	247.1
82.5°	461.6	383.2	414.9	345.5	437.1	380.7	303.9	103.4	89.8	85.4
85°	300.3	209.4	109.1	73.1	150.6	243.3	67.9	28.1	21.6	17.2
87.5°	103.5	53.4	5.4	2.3	16.1	45.4	2.5	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

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