

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: P450609

Luminaire Tested: **GLAN-SA1B-830-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450609  
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-SA1B-830-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3944 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

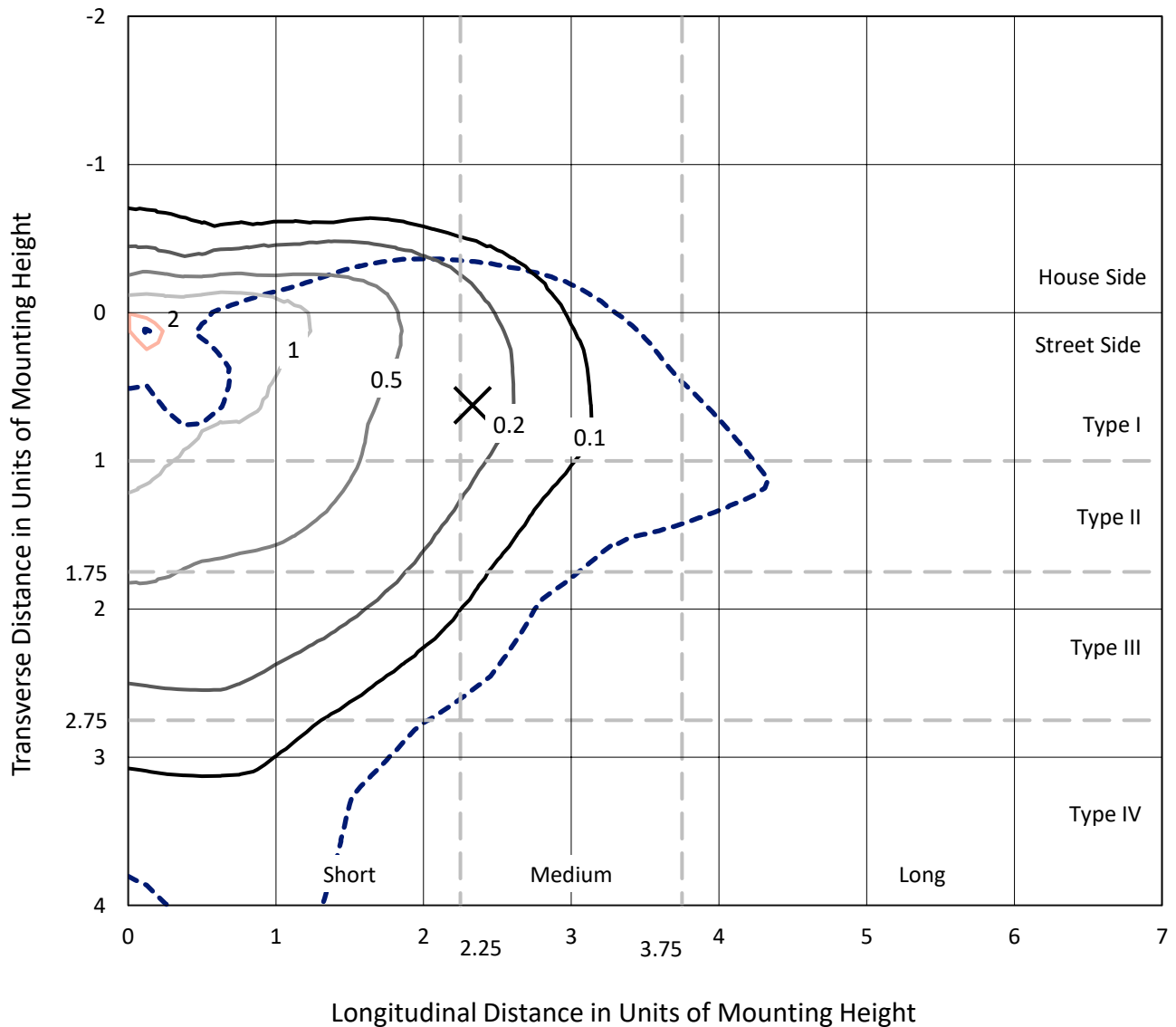
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

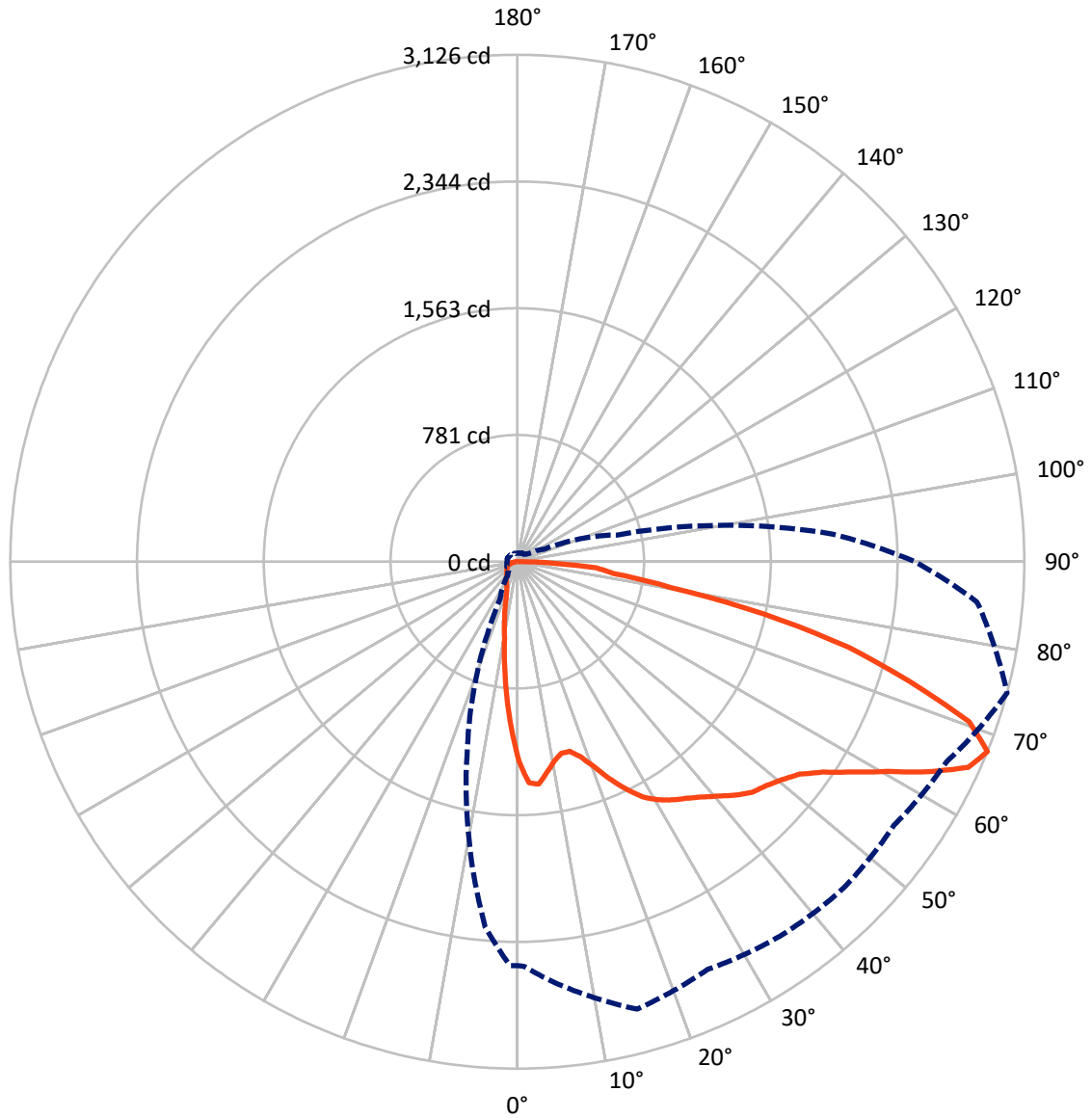
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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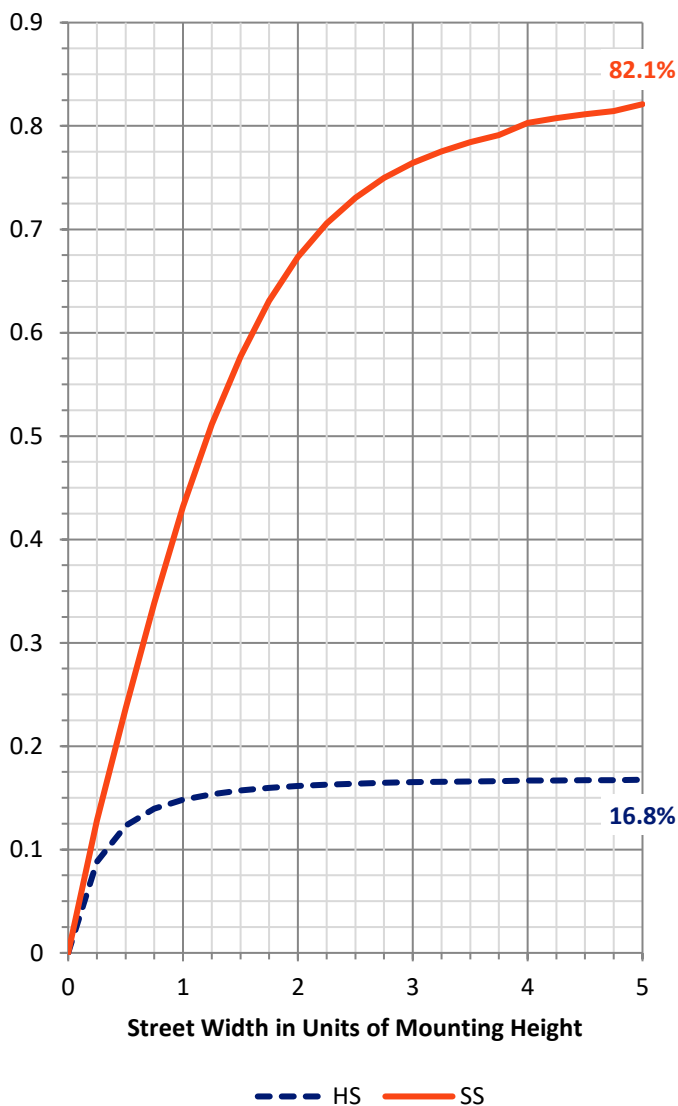
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	666.6	0.0	666.6
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	3277.4	0.0	3277.4
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	3944.0	0.0	3944.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.5	2.4
10°-20°	194.9	4.9
20°-30°	280.5	7.1
30°-40°	404.0	10.2
40°-50°	567.5	14.4
50°-60°	791.4	20.1
60°-70°	940.9	23.9
70°-80°	554.2	14.1
80°-90°	117.2	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°	3944.0	100.0
0°-180°	3944.0	100.0



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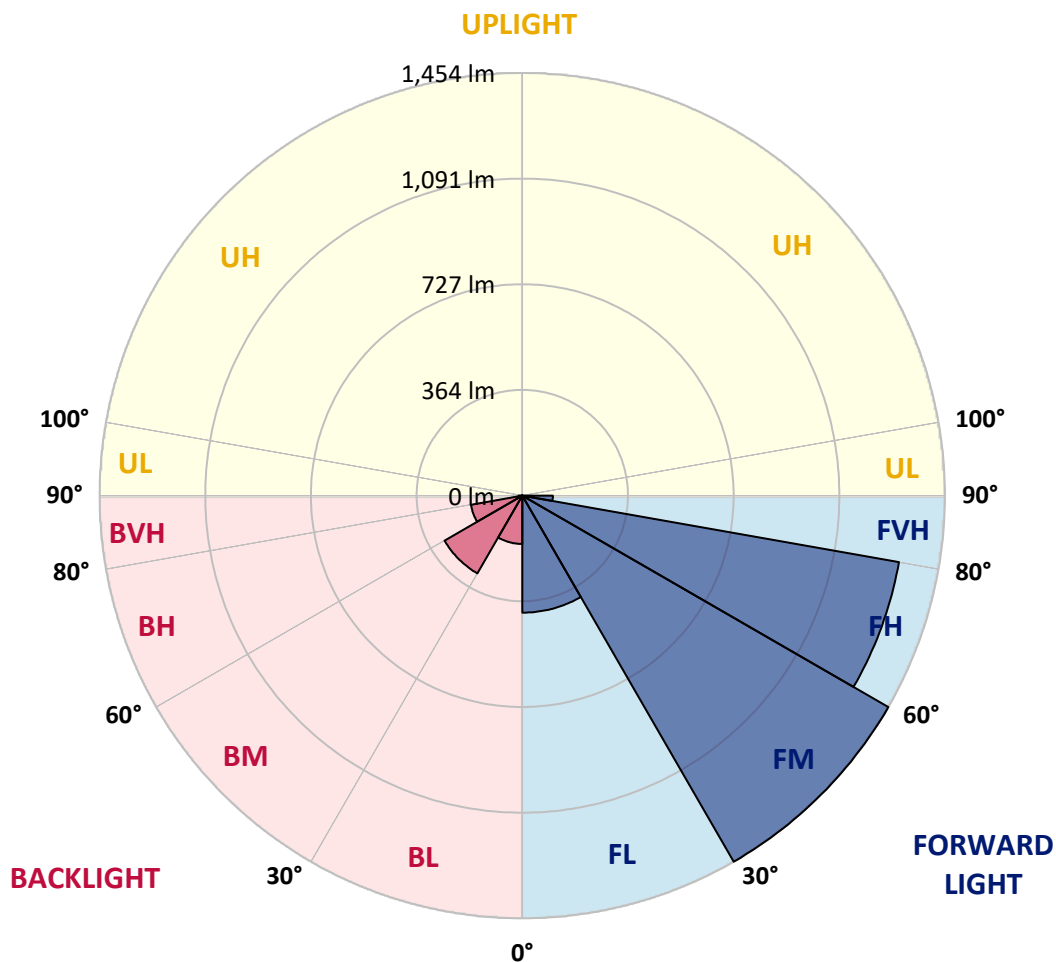
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	402.6	10.2			
FM	(30°-60°)	1454.0	36.9			
FH	(60°-80°)	1315.7	33.4			G1/1800
FVH	(80°-90°)	105.1	2.7			G2/225
BL	(0°-30°)	166.3	4.2	B1/500		
BM	(30°-60°)	308.9	7.8	B1/1000		
BH	(60°-80°)	179.4	4.5	B1/500		G1/500
BVH	(80°-90°)	12.1	0.3			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2
2.5°	1328.6	1330.3	1341.7	1374.8	1397.6	1406.0	1411.8	1400.9	1390.3	1364.5	1325.5
5°	1324.5	1334.9	1364.5	1438.8	1497.5	1522.8	1530.4	1497.8	1443.9	1377.6	1298.0
7.5°	1247.1	1261.0	1306.6	1431.2	1534.7	1593.9	1586.0	1527.1	1430.0	1311.9	1200.6
10°	1155.3	1170.7	1225.6	1376.4	1509.6	1591.1	1591.1	1519.3	1390.3	1249.9	1121.7
12.5°	1082.5	1098.7	1161.4	1320.0	1457.5	1534.7	1547.6	1485.9	1361.7	1210.7	1069.8
15°	1058.4	1074.1	1141.7	1285.8	1402.4	1449.5	1453.8	1433.5	1347.8	1213.5	1067.6
17.5°	1088.3	1108.5	1176.8	1295.9	1351.8	1354.6	1357.9	1373.8	1349.3	1264.3	1113.6
20°	1174.5	1196.3	1267.6	1328.6	1307.6	1278.7	1280.5	1321.5	1367.3	1348.3	1223.6
22.5°	1299.0	1317.9	1391.0	1386.0	1288.9	1229.4	1217.0	1274.2	1393.8	1453.0	1340.7
25°	1433.3	1455.5	1539.5	1471.2	1294.2	1200.1	1192.2	1246.4	1421.4	1550.9	1476.0
27.5°	1587.0	1608.8	1675.1	1557.2	1322.0	1197.8	1188.4	1243.8	1446.2	1641.4	1605.2
30°	1701.4	1721.3	1766.4	1629.5	1356.1	1213.0	1201.3	1263.8	1467.4	1703.4	1731.2
32.5°	1791.1	1811.9	1836.4	1674.5	1401.1	1240.5	1219.0	1300.2	1495.2	1750.7	1824.5
35°	1884.7	1909.3	1907.5	1714.5	1443.1	1272.4	1251.4	1352.8	1539.0	1791.9	1942.9
37.5°	2003.3	2013.2	2000.6	1750.4	1493.5	1329.8	1318.2	1431.0	1601.2	1841.7	2081.2
40°	2123.7	2143.4	2078.5	1793.9	1554.7	1437.8	1436.6	1546.6	1675.1	1900.1	2215.3
42.5°	2226.9	2243.6	2151.3	1831.9	1628.8	1569.6	1579.2	1701.6	1771.9	1967.9	2323.0
45°	2304.6	2319.5	2218.6	1868.5	1726.4	1721.8	1778.5	1867.8	1894.1	2028.9	2386.2
47.5°	2370.6	2385.0	2265.4	1924.2	1847.0	1903.7	2002.3	2041.0	1998.5	2063.8	2457.1
50°	2426.2	2430.5	2297.5	1990.4	1996.8	2126.5	2222.1	2247.1	2101.7	2113.9	2518.5
52.5°	2484.1	2478.6	2352.9	2073.9	2158.6	2337.9	2407.5	2433.5	2200.6	2175.6	2608.1
55°	2613.9	2619.2	2477.0	2179.1	2322.3	2545.6	2637.1	2612.1	2310.1	2289.1	2721.9
57.5°	2770.7	2766.1	2651.8	2343.8	2488.9	2738.8	2807.1	2766.9	2456.3	2445.2	2837.2
60°	2831.6	2837.7	2798.0	2520.8	2653.3	2908.0	2977.8	2915.3	2631.6	2626.5	2924.2
62.5°	2770.4	2804.6	2831.4	2678.4	2793.4	3032.4	3101.7	3030.4	2814.4	2851.1	2985.1
65°	2648.5	2655.9	2747.2	2811.9	2861.0	3052.9	3089.1	3051.2	2967.2	3055.7	2982.4
67.5°	2490.2	2496.5	2603.5	2855.7	2774.0	2820.2	2845.5	2834.4	2919.9	3125.8	2845.0
70°	2339.5	2334.4	2447.5	2744.1	2414.8	2344.5	2365.5	2330.6	2519.5	2954.5	2575.7
72.5°	2046.1	2064.3	2185.7	2434.0	1912.0	1797.7	1843.5	1753.2	1937.8	2530.4	2090.6
75°	1602.7	1607.0	1809.6	2042.8	1442.4	1262.0	1324.0	1286.3	1484.4	2110.8	1443.6
77.5°	1109.8	1100.2	1317.9	1560.2	1028.6	923.9	924.9	907.0	1036.4	1554.2	980.8
80°	704.9	690.2	825.0	963.9	706.9	756.2	731.4	730.7	674.8	958.8	593.1
82.5°	380.9	397.1	521.3	604.2	507.1	584.5	535.7	520.0	463.1	600.2	379.4
85°	173.5	188.7	278.0	411.0	385.2	389.5	260.2	307.0	383.2	487.4	202.6
87.5°	16.9	21.8	57.4	194.0	131.5	103.7	38.7	74.6	96.4	173.2	16.2
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°	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2
2.5°	1309.6	1296.4	1251.7	1214.7	1175.5	1145.7	1106.8	1080.7	1062.7	1035.7	1032.4
5°	1249.4	1217.3	1139.4	1060.0	991.4	939.8	887.5	839.4	811.1	802.2	790.9
7.5°	1148.0	1093.9	993.7	902.7	824.0	747.1	687.9	645.9	617.9	601.4	581.7
10°	1064.5	1001.8	879.9	768.4	703.6	655.8	603.7	558.7	524.0	494.4	478.3
12.5°	1008.4	937.6	800.5	709.9	659.9	609.0	548.1	497.5	446.4	412.8	398.3
15°	991.4	916.6	775.9	680.8	609.0	542.5	474.2	408.2	357.6	325.8	315.1
17.5°	1032.9	942.4	775.7	642.1	549.3	469.9	382.4	320.4	268.6	244.8	237.2
20°	1110.3	991.9	778.0	604.0	484.6	372.8	278.2	227.4	202.6	192.5	188.7
22.5°	1218.3	1067.6	784.8	566.3	413.8	286.3	208.4	182.6	173.8	172.0	171.2
25°	1351.3	1161.1	807.8	532.4	354.1	218.5	174.3	162.6	157.6	155.8	155.5
27.5°	1473.7	1282.0	835.6	503.3	296.4	188.4	157.6	147.7	142.6	142.4	142.9
30°	1584.3	1383.2	858.9	470.7	252.7	167.4	146.7	136.8	132.0	131.8	133.3
32.5°	1679.9	1466.4	876.1	438.6	228.4	154.5	136.8	126.2	122.2	121.4	122.2
35°	1782.0	1549.4	868.3	413.5	214.5	143.9	129.5	119.1	114.3	112.0	112.0
37.5°	1898.6	1634.8	854.9	392.8	208.1	135.1	123.2	113.1	108.2	106.0	105.7
40°	2025.8	1720.3	836.4	374.3	201.8	129.7	118.9	108.2	102.4	100.2	99.6
42.5°	2138.1	1793.4	821.2	362.2	191.5	130.8	115.1	104.7	97.4	94.3	94.1
45°	2235.8	1867.0	818.4	355.1	182.9	129.2	114.1	101.9	93.3	90.0	89.5
47.5°	2312.1	1943.6	834.4	351.0	173.5	121.1	120.6	100.2	89.8	86.2	85.7
50°	2405.2	2052.4	870.8	342.7	164.9	113.6	127.5	99.9	87.0	82.5	81.2
52.5°	2529.1	2194.0	920.1	327.8	152.5	106.5	121.7	99.9	83.7	79.2	77.6
55°	2716.6	2374.6	968.4	306.8	135.1	97.1	109.8	96.9	78.9	74.9	73.9
57.5°	2840.7	2506.6	999.3	277.7	113.3	90.3	94.6	92.1	74.1	69.8	69.8
60°	2847.1	2542.0	984.6	241.0	99.6	84.0	82.2	92.8	69.8	65.3	64.7
62.5°	2774.2	2455.3	908.2	208.1	92.3	77.1	74.4	81.4	65.5	61.0	60.2
65°	2660.4	2234.0	775.7	192.5	88.3	71.1	67.0	66.8	61.0	56.7	55.6
67.5°	2451.2	1952.2	637.3	183.4	86.2	64.2	60.4	59.2	55.6	52.1	51.6
70°	2142.9	1635.1	511.1	179.6	85.2	57.2	54.1	52.6	49.6	46.8	46.5
72.5°	1667.2	1326.3	421.9	177.0	84.7	50.6	47.3	45.3	43.5	41.0	41.0
75°	1197.5	975.7	322.0	159.6	78.4	43.5	40.0	38.7	36.2	34.1	34.6
77.5°	754.9	657.1	211.9	117.4	60.7	34.9	31.9	31.1	29.1	26.3	28.1
80°	509.9	462.1	123.7	73.9	38.2	25.5	24.5	24.3	22.0	19.0	19.2
82.5°	347.0	340.4	64.2	42.0	22.0	14.9	14.4	14.9	12.4	10.1	10.1
85°	135.6	185.1	30.3	16.4	7.1	2.3	3.3	3.5	2.0	1.0	1.3
87.5°	2.5	19.0	0.8	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°	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2
2.5°	1027.3	1025.1	1028.9	1012.7	1016.0	1022.0	1025.1	1026.8	1051.9	1046.1	1062.0
5°	801.5	799.2	813.9	815.9	823.5	822.0	829.3	831.1	840.2	843.5	865.7
7.5°	583.0	592.8	609.5	618.1	631.0	635.1	631.3	640.6	621.7	635.3	639.4
10°	468.4	456.5	449.4	469.2	471.7	490.4	482.8	476.7	487.9	488.4	499.0
12.5°	390.0	364.4	347.5	353.1	359.1	367.2	368.5	380.6	388.7	396.3	402.6
15°	305.8	296.9	281.5	273.9	282.5	285.8	293.6	303.8	312.3	314.6	323.2
17.5°	234.7	236.2	233.7	229.1	234.5	237.0	237.5	237.7	240.0	238.5	251.1
20°	188.9	194.2	200.6	201.6	203.3	204.6	202.3	193.7	194.0	199.3	203.3
22.5°	171.0	172.0	179.1	181.3	186.9	184.6	178.1	174.0	173.5	174.8	176.8
25°	156.8	158.3	163.4	166.9	171.2	167.2	162.4	158.6	158.1	159.3	161.4
27.5°	144.2	146.4	151.0	154.5	158.6	154.8	150.2	146.9	146.7	146.4	147.7
30°	134.0	136.6	139.9	143.9	146.7	143.4	139.1	137.3	137.1	136.6	137.1
32.5°	123.9	128.0	131.3	133.3	136.1	133.5	130.3	129.2	127.5	126.0	125.2
35°	112.5	116.8	121.9	124.4	127.2	124.7	122.4	118.1	115.1	114.8	115.3
37.5°	106.0	107.7	111.8	116.1	118.9	117.6	113.3	109.0	108.2	108.2	108.8
40°	100.2	100.9	102.7	108.2	113.3	109.5	104.2	102.9	102.9	102.7	102.9
42.5°	94.3	95.1	95.1	99.4	107.5	101.4	97.4	97.4	97.4	97.6	98.4
45°	89.0	89.3	89.0	92.1	99.6	94.6	91.8	92.6	93.1	93.6	94.1
47.5°	84.5	84.7	84.5	87.0	90.8	88.8	87.3	88.3	89.3	90.0	90.5
50°	80.4	80.2	80.7	82.2	84.0	84.5	83.5	85.0	85.5	86.5	87.8
52.5°	76.9	76.6	77.1	77.9	80.4	80.4	80.4	81.7	82.7	83.7	85.5
55°	72.8	73.1	73.9	74.9	78.2	77.6	77.9	78.9	79.9	81.4	82.5
57.5°	69.0	69.6	70.6	72.1	75.4	75.1	75.4	75.9	77.1	77.9	78.9
60°	64.7	65.8	67.0	68.0	71.3	71.1	72.3	73.3	74.1	74.1	74.6
62.5°	60.4	62.0	63.2	64.0	67.5	67.8	69.6	70.3	70.8	70.3	71.1
65°	56.1	58.4	58.9	59.9	63.5	63.7	65.8	67.5	67.0	66.5	67.8
67.5°	51.8	54.6	54.4	55.6	59.2	59.7	61.5	64.5	63.5	63.0	64.0
70°	47.0	49.1	49.3	50.1	54.9	54.1	56.9	59.7	58.9	59.2	59.2
72.5°	41.7	43.5	43.5	45.0	50.1	48.8	51.1	54.1	54.1	53.9	53.9
75°	35.4	36.4	37.4	39.7	45.0	43.5	45.0	47.8	48.3	47.8	47.8
77.5°	28.6	30.1	30.6	33.6	37.4	37.2	38.7	40.0	41.0	40.5	40.5
80°	20.2	21.8	23.8	27.1	29.3	30.1	30.9	31.9	32.4	32.4	32.9
82.5°	11.4	13.7	15.4	18.7	19.7	23.5	23.3	24.0	23.3	20.5	22.8
85°	2.5	4.8	6.8	8.6	9.9	13.7	14.4	16.2	13.4	12.4	12.4
87.5°	0.0	0.0	0.0	0.0	0.0	2.0	4.0	5.6	4.8	4.0	4.0
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°	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2	1232.2
2.5°	1075.4	1097.4	1124.0	1169.7	1201.8	1236.5	1271.4	1308.6	1318.4	1328.6
5°	871.8	915.0	938.6	1000.0	1064.5	1146.5	1213.5	1286.8	1317.4	1324.5
7.5°	660.4	689.7	751.4	813.6	893.5	979.5	1082.2	1196.5	1232.2	1247.1
10°	523.5	563.5	617.6	684.4	754.4	847.0	962.8	1096.4	1147.0	1155.3
12.5°	445.6	490.1	549.1	619.6	685.9	755.7	872.6	1010.4	1064.5	1082.5
15°	356.4	410.2	478.3	552.6	624.7	701.1	819.4	975.0	1037.5	1058.4
17.5°	280.0	323.5	397.1	477.8	563.2	659.9	808.3	991.9	1068.8	1088.3
20°	214.2	245.3	307.3	392.5	492.7	619.1	811.1	1055.9	1148.0	1174.5
22.5°	185.1	201.1	238.8	319.9	432.0	583.7	822.5	1143.7	1254.7	1299.0
25°	167.7	176.0	197.3	250.4	374.1	549.3	848.5	1261.8	1403.9	1433.3
27.5°	152.8	158.8	172.0	210.2	321.5	517.5	878.9	1392.8	1543.3	1587.0
30°	138.6	146.7	159.1	186.7	287.8	488.4	917.1	1499.0	1660.6	1701.4
32.5°	127.7	135.8	147.2	170.2	259.2	457.8	939.8	1592.3	1756.5	1791.1
35°	118.9	125.7	137.6	157.1	237.5	434.5	935.3	1666.5	1849.3	1884.7
37.5°	112.5	118.4	130.3	144.7	221.0	410.2	933.0	1764.3	1962.4	2003.3
40°	106.7	112.8	123.7	136.6	204.6	381.6	934.3	1861.4	2082.8	2123.7
42.5°	102.2	109.0	117.9	134.3	187.7	358.6	934.3	1945.9	2187.5	2226.9
45°	98.4	105.7	114.3	134.0	174.3	341.2	927.9	2018.5	2270.9	2304.6
47.5°	95.1	103.2	115.6	129.5	171.0	328.5	922.4	2076.7	2339.0	2370.6
50°	92.8	102.4	122.9	124.2	172.0	324.7	949.2	2150.0	2398.9	2426.2
52.5°	91.0	102.7	122.7	116.3	170.2	327.3	1005.1	2264.6	2482.1	2484.1
55°	87.5	102.4	116.3	107.5	162.9	331.6	1076.9	2431.0	2612.4	2613.9
57.5°	84.0	99.6	108.0	99.9	148.0	331.6	1163.4	2588.6	2769.4	2770.7
60°	80.4	103.7	94.8	93.3	128.5	325.5	1254.7	2657.9	2818.7	2831.6
62.5°	76.9	104.5	84.7	87.5	114.3	310.8	1322.7	2581.2	2752.0	2770.4
65°	72.8	84.2	78.2	81.4	107.0	286.3	1301.2	2440.9	2626.5	2648.5
67.5°	68.0	71.3	71.1	75.1	104.5	250.1	1187.9	2263.3	2491.5	2490.2
70°	62.2	64.0	64.7	69.0	99.6	222.1	989.9	2032.9	2311.1	2339.5
72.5°	56.1	57.7	58.4	62.2	94.8	206.1	768.4	1715.5	2001.8	2046.1
75°	49.6	50.6	51.6	54.9	89.8	182.6	547.3	1309.6	1533.2	1602.7
77.5°	42.7	42.7	44.0	47.3	75.6	150.7	367.2	918.6	1038.7	1109.8
80°	34.6	34.9	34.4	37.9	55.6	103.2	208.7	613.6	691.2	704.9
82.5°	26.6	25.8	26.1	27.8	41.5	70.3	111.3	381.1	388.5	380.9
85°	16.7	16.7	16.2	18.2	26.6	36.7	60.7	233.4	182.4	173.5
87.5°	6.8	5.6	6.3	7.3	12.6	14.9	23.8	48.1	18.5	16.9
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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