

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: P191399

Luminaire Tested: **GAN-AF-01-LED-U-T2R-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191399  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-01-LED-U-T2R-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5366.4 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

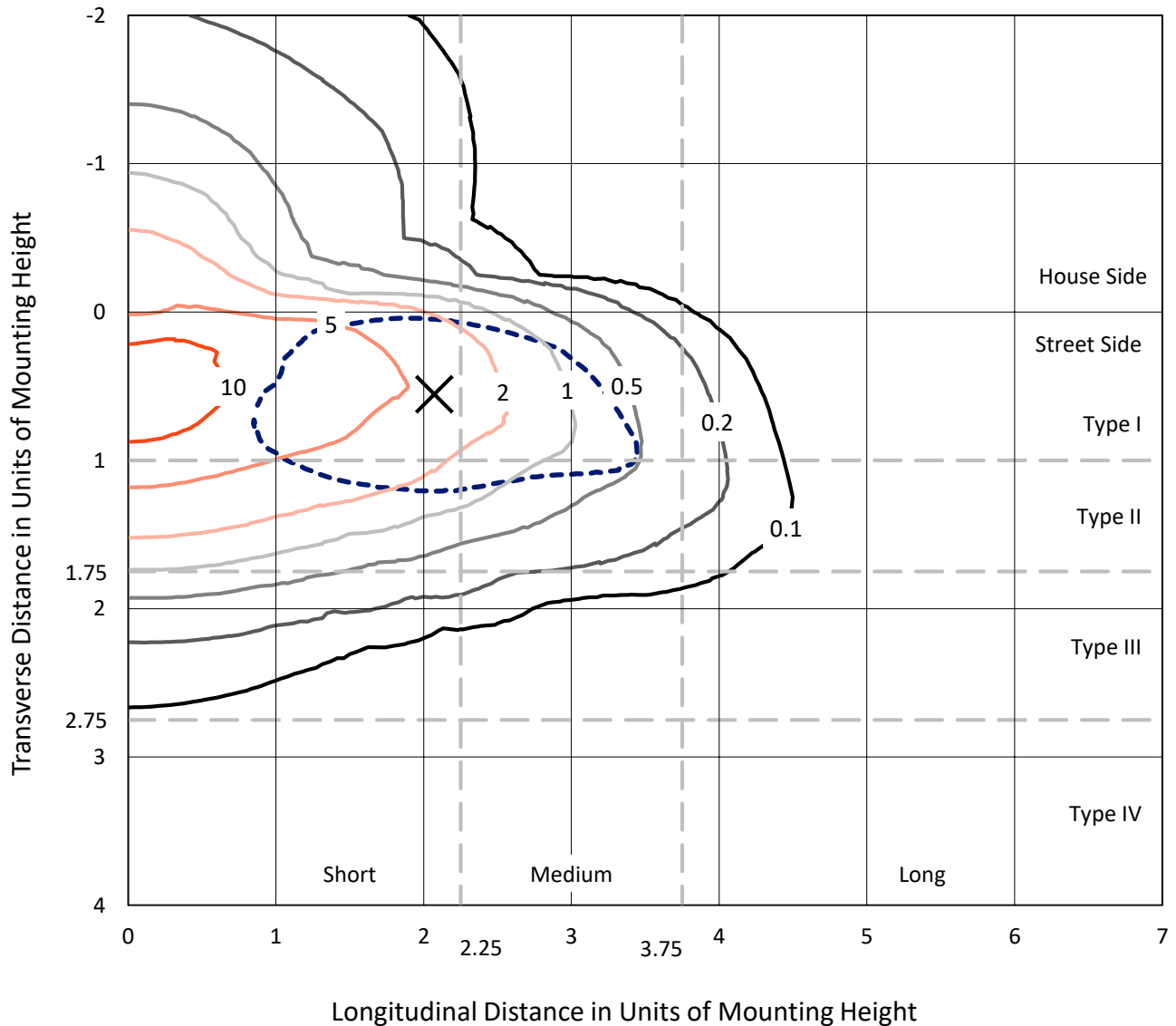
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

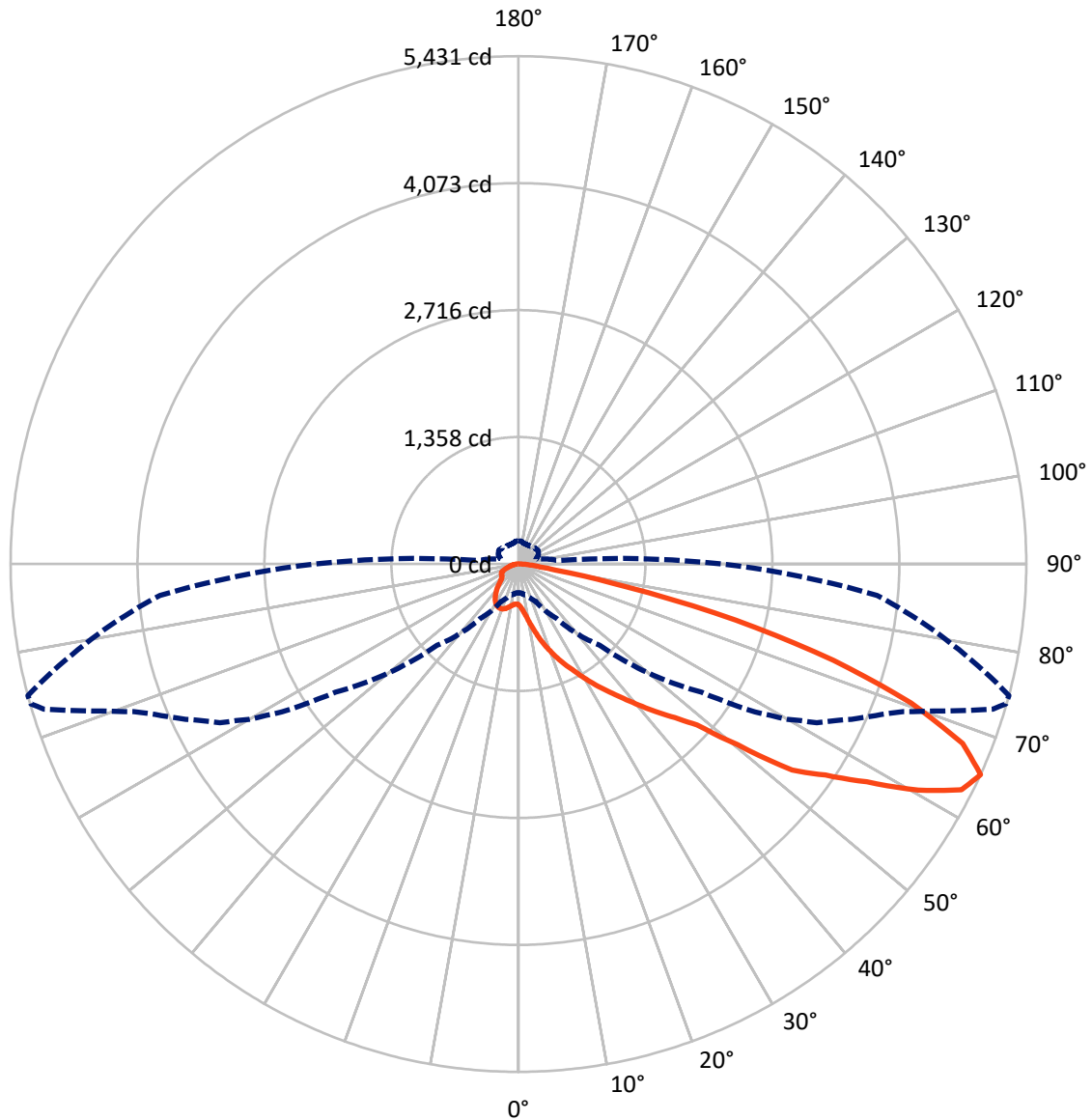
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.5 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	827.4	0.0	827.4
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	4539.0	0.0	4539.0
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	5366.4	0.0	5366.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.9	1.0
10°-20°	210.6	3.9
20°-30°	432.1	8.1
30°-40°	727.0	13.5
40°-50°	1004.6	18.7
50°-60°	1254.0	23.4
60°-70°	1128.5	21.0
70°-80°	473.0	8.8
80°-90°	82.6	1.5
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°	5366.4	100.0
0°-180°	5366.4	100.0

**Coefficient of Utilization**



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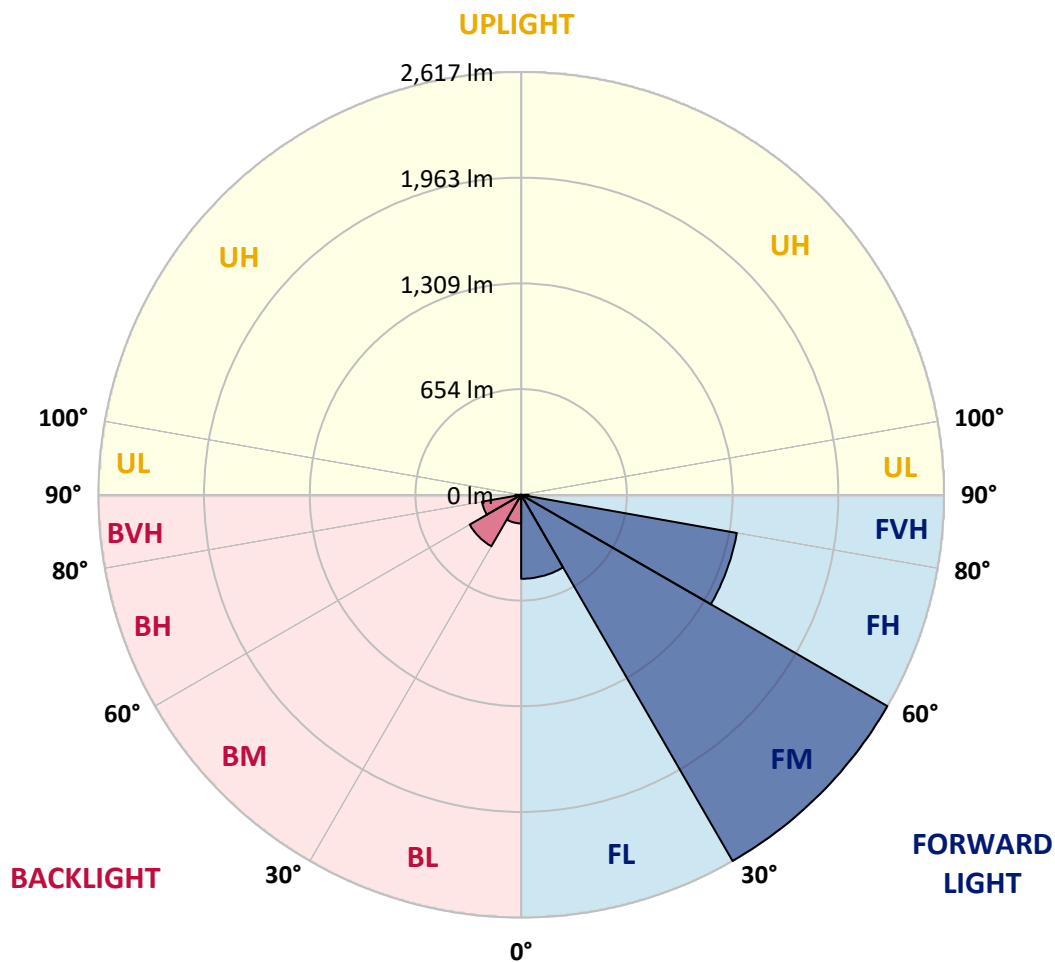
CATALOG NUMBER: GAN-AF-01-LED-U-T2R-800

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	519.7	9.7			
FM	(30°-60°)	2617.3	48.8			
FH	(60°-80°)	1355.5	25.3			G1/1800
FVH	(80°-90°)	46.4	0.9			G1/100
BL	(0°-30°)	176.9	3.3	B1/500		
BM	(30°-60°)	368.3	6.9	B1/1000		
BH	(60°-80°)	246.0	4.6	B1/500		G1/500
BVH	(80°-90°)	36.2	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	436.1	436.1	436.1	436.1	436.1	436.1	436.1	436.1	436.1	436.1	436.1
2.5°	553.7	547.6	549.1	539.0	526.5	510.2	492.2	492.0	492.2	490.5	483.9
5°	767.8	760.5	757.7	734.8	701.3	653.6	601.7	596.2	593.8	588.0	574.6
7.5°	924.0	920.0	915.6	898.5	868.0	814.6	745.0	733.0	721.6	718.8	703.6
10°	1024.9	1023.9	1014.8	1010.2	991.1	944.9	877.1	865.6	853.2	848.8	832.9
12.5°	1104.7	1104.4	1100.1	1101.3	1084.8	1051.3	992.9	982.4	973.3	960.1	948.7
15°	1159.8	1160.0	1166.4	1173.5	1171.0	1148.4	1093.4	1088.9	1081.1	1071.8	1058.4
17.5°	1205.0	1206.3	1212.9	1225.8	1239.8	1238.0	1194.6	1190.7	1183.9	1171.5	1164.3
20°	1307.1	1311.9	1299.2	1299.2	1300.8	1307.6	1286.8	1283.7	1274.1	1267.4	1261.9
22.5°	1479.6	1485.1	1456.5	1427.2	1398.6	1377.7	1356.8	1360.7	1354.1	1349.5	1346.2
25°	1703.6	1707.9	1661.5	1612.2	1553.8	1477.6	1426.0	1423.6	1420.2	1417.3	1415.8
27.5°	1914.5	1916.2	1872.2	1800.1	1732.3	1622.8	1496.1	1493.3	1489.0	1483.6	1479.1
30°	2094.8	2094.3	2049.1	1980.2	1907.6	1786.4	1602.5	1593.9	1581.2	1566.6	1555.5
32.5°	2251.0	2250.2	2200.7	2129.3	2053.1	1948.4	1748.3	1730.5	1710.7	1682.5	1665.5
35°	2373.9	2373.5	2326.7	2252.2	2164.9	2101.1	1915.5	1893.6	1868.4	1830.6	1804.5
37.5°	2420.4	2420.4	2394.2	2343.5	2266.2	2222.6	2101.1	2074.6	2047.7	2004.9	1975.4
40°	2393.2	2393.7	2399.3	2389.9	2352.3	2318.8	2274.3	2258.6	2235.5	2196.9	2166.1
42.5°	2302.0	2304.8	2341.9	2387.4	2406.2	2400.9	2428.0	2420.9	2404.7	2374.9	2350.5
45°	2186.5	2195.0	2235.8	2321.6	2421.1	2471.7	2556.8	2557.6	2554.5	2538.5	2519.7
47.5°	2027.7	2039.9	2093.5	2209.6	2386.1	2540.5	2687.6	2694.5	2700.8	2690.4	2681.8
50°	1816.9	1831.4	1911.6	2065.5	2314.7	2611.9	2934.7	2965.7	2994.7	2991.1	2996.9
52.5°	1591.1	1608.1	1706.4	1877.8	2192.1	2628.4	3092.7	3143.3	3193.9	3235.2	3279.2
55°	1387.3	1378.2	1476.5	1657.1	1990.4	2554.0	3234.8	3295.6	3352.1	3402.8	3455.2
57.5°	1111.2	1126.3	1224.8	1403.4	1723.4	2343.9	3332.5	3421.7	3502.7	3586.8	3660.9
60°	812.3	827.3	934.3	1115.6	1433.6	2025.4	3257.8	3392.9	3522.7	3651.5	3752.1
62.5°	490.5	501.7	595.9	768.6	1105.4	1647.7	2925.1	3102.4	3293.4	3447.3	3601.5
65°	305.4	311.7	346.5	441.5	709.9	1230.1	2389.9	2583.3	2789.0	2984.3	3144.6
67.5°	249.9	252.3	258.6	278.9	389.8	802.1	1778.8	1949.9	2135.6	2324.7	2503.0
70°	224.7	223.3	223.3	224.5	249.9	431.3	1164.6	1276.1	1430.8	1595.1	1758.2
72.5°	203.0	201.4	198.7	194.8	204.0	263.1	602.0	686.1	797.6	943.6	1099.9
75°	182.4	180.3	177.1	172.3	178.6	198.7	289.1	324.4	378.7	456.4	543.6
77.5°	161.0	158.5	155.5	151.9	160.0	154.5	169.4	182.1	203.0	227.8	260.6
80°	136.9	134.6	133.6	131.9	141.5	117.6	119.7	127.5	139.7	153.1	168.4
82.5°	107.2	107.2	111.3	112.0	122.7	84.6	89.4	96.3	102.6	109.8	116.8
85°	70.6	71.1	84.8	90.1	96.8	56.9	67.1	69.4	74.5	78.5	81.5
87.5°	22.1	23.8	51.9	57.4	55.6	32.2	41.1	42.1	45.7	48.5	51.0
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):**

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	436.1	436.1	436.1	436.1	436.1	436.1	436.1	436.1	436.1	436.1	436.1
2.5°	483.9	480.8	478.0	477.8	475.8	472.9	473.9	469.6	469.9	467.6	465.0
5°	569.0	566.9	556.8	554.0	546.4	541.6	540.7	530.6	529.4	523.5	517.1
7.5°	691.4	684.8	670.5	663.7	650.8	641.1	636.5	623.1	616.4	601.2	594.3
10°	819.7	811.3	793.7	784.1	771.6	756.2	747.8	728.2	720.6	706.7	689.9
12.5°	938.6	930.2	912.2	904.8	888.2	871.8	862.6	840.5	830.6	808.2	795.0
15°	1048.5	1040.1	1024.4	1016.8	1000.2	986.8	974.6	952.8	941.1	920.2	903.0
17.5°	1155.2	1146.3	1132.6	1125.8	1109.7	1096.0	1082.8	1062.2	1050.3	1029.5	1013.9
20°	1254.2	1247.7	1237.8	1228.6	1212.6	1200.1	1184.4	1166.7	1149.4	1134.1	1119.4
22.5°	1340.6	1338.1	1327.4	1323.4	1309.7	1298.9	1285.2	1267.7	1255.3	1235.9	1222.2
25°	1415.0	1414.3	1409.2	1407.9	1398.3	1388.1	1385.1	1370.5	1359.2	1342.1	1327.9
27.5°	1479.1	1479.8	1478.6	1482.2	1479.6	1475.0	1475.2	1470.4	1463.8	1449.6	1437.1
30°	1550.2	1546.1	1548.4	1553.5	1555.0	1555.5	1563.9	1566.6	1566.1	1556.8	1550.7
32.5°	1650.7	1641.1	1632.2	1631.5	1636.5	1638.6	1652.8	1660.1	1666.5	1668.8	1669.9
35°	1779.0	1759.7	1741.2	1731.2	1722.6	1724.9	1735.1	1747.0	1761.0	1770.6	1782.1
37.5°	1940.5	1916.9	1884.2	1860.8	1855.0	1842.2	1848.9	1858.3	1872.0	1886.9	1906.8
40°	2136.4	2100.6	2063.8	2032.8	2016.0	1992.6	1992.4	1990.7	1999.1	2013.0	2040.9
42.5°	2324.9	2293.1	2254.0	2221.5	2199.7	2168.5	2162.1	2145.5	2149.3	2161.6	2188.7
45°	2501.4	2475.2	2451.4	2413.8	2395.2	2361.5	2350.8	2331.2	2320.4	2325.9	2353.1
47.5°	2672.4	2655.6	2630.7	2606.3	2592.1	2561.9	2548.2	2534.2	2520.2	2519.7	2548.2
50°	3005.6	2996.7	2967.3	2941.9	2948.8	2911.6	2913.9	2876.3	2893.3	2895.4	2955.1
52.5°	3318.8	3349.8	3371.6	3398.3	3415.5	3418.9	3430.3	3447.3	3467.9	3508.5	3564.0
55°	3498.1	3537.0	3559.6	3579.9	3613.5	3620.5	3639.6	3662.2	3680.3	3726.0	3772.9
57.5°	3711.3	3783.4	3818.5	3850.7	3895.9	3913.2	3944.9	3969.6	3992.9	4047.0	4103.9
60°	3842.5	3930.5	4001.8	4052.8	4109.5	4150.1	4198.2	4236.8	4291.6	4356.4	4441.2
62.5°	3738.2	3867.2	3961.9	4049.6	4126.5	4204.2	4273.1	4345.2	4428.6	4526.6	4658.1
65°	3322.3	3453.7	3616.0	3706.9	3808.8	3928.6	4033.3	4150.1	4263.7	4406.5	4601.0
67.5°	2674.6	2827.3	3009.7	3101.4	3218.5	3352.3	3469.6	3612.4	3745.0	3918.0	4158.5
70°	1927.9	2125.3	2278.6	2374.4	2511.0	2649.0	2762.3	2928.4	3038.2	3215.4	3464.1
72.5°	1220.7	1376.5	1564.4	1685.0	1806.4	1946.2	2062.0	2205.3	2307.6	2469.2	2694.5
75°	656.3	771.2	936.2	1050.8	1180.9	1300.3	1435.9	1531.9	1607.6	1735.3	1918.2
77.5°	307.6	377.5	461.0	549.1	637.3	729.3	818.7	896.4	928.8	1002.1	1110.0
80°	186.7	209.3	233.6	260.9	297.7	327.4	366.8	395.3	397.2	420.3	453.4
82.5°	124.7	133.1	140.5	147.3	156.7	164.1	172.5	182.4	186.5	191.8	202.4
85°	85.1	89.2	90.6	95.0	94.0	96.6	99.8	103.1	104.9	104.6	109.5
87.5°	52.4	54.3	55.3	56.4	55.6	54.6	56.2	57.9	58.4	56.9	57.4
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):**

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	436.1	436.1	436.1	436.1	436.1	436.1	436.1	436.1	436.1	436.1	436.1
2.5°	465.5	463.3	461.0	459.5	459.0	445.5	439.7	435.9	427.7	421.1	415.8
5°	513.6	508.8	504.9	500.4	497.9	463.8	451.3	442.7	428.5	420.1	412.5
7.5°	590.9	577.4	569.5	560.6	553.0	491.5	471.0	457.5	437.6	426.5	417.9
10°	678.4	664.5	652.0	638.3	626.4	528.4	498.4	477.5	451.3	436.9	425.4
12.5°	776.2	762.5	746.8	729.3	714.0	575.1	533.4	503.7	467.9	448.6	432.6
15°	891.8	867.7	848.6	828.3	810.5	631.0	574.3	533.2	485.4	459.2	437.9
17.5°	999.2	973.8	948.0	930.2	909.6	693.7	615.4	563.1	499.9	466.1	438.9
20°	1104.2	1076.5	1054.2	1030.2	1008.6	758.7	659.4	589.5	509.2	466.4	432.6
22.5°	1196.6	1179.4	1154.4	1128.5	1106.7	823.7	700.5	611.9	512.8	460.5	421.4
25°	1301.8	1283.5	1253.0	1231.1	1206.8	890.1	740.9	629.1	510.8	449.6	404.2
27.5°	1414.0	1393.7	1362.5	1339.7	1310.2	958.8	778.1	641.6	503.2	431.8	381.0
30°	1531.2	1512.5	1481.8	1458.7	1429.1	1031.7	819.4	650.0	487.9	407.1	354.0
32.5°	1656.9	1641.3	1610.8	1586.8	1555.0	1110.7	858.1	652.5	464.8	378.0	325.6
35°	1776.3	1765.6	1739.9	1717.3	1684.3	1185.4	898.9	651.3	437.4	346.0	299.7
37.5°	1910.6	1904.2	1891.5	1862.9	1822.5	1286.8	948.0	645.9	403.9	314.3	279.9
40°	2053.9	2054.4	2040.7	2021.1	1983.5	1409.7	1006.4	635.6	367.2	286.2	261.9
42.5°	2205.5	2213.4	2206.8	2192.8	2156.7	1533.7	1076.2	622.8	331.7	259.1	244.1
45°	2379.3	2388.9	2399.0	2378.5	2343.5	1697.3	1168.1	606.3	293.4	236.5	231.9
47.5°	2579.7	2594.9	2604.0	2604.3	2569.2	1899.9	1317.6	596.4	259.3	221.3	226.1
50°	3002.6	3007.4	3029.0	3066.6	3039.7	2369.1	1578.4	590.3	236.2	211.9	221.8
52.5°	3611.9	3665.0	3702.4	3699.8	3663.2	2667.0	1722.1	558.8	222.5	208.3	219.7
55°	3860.1	3926.4	3995.4	4013.8	3985.3	2921.2	1858.0	527.3	215.9	210.8	220.4
57.5°	4190.8	4302.5	4397.3	4437.2	4396.0	3246.6	2036.8	510.8	213.9	217.7	225.3
60°	4577.1	4715.3	4839.8	4911.4	4911.4	3620.5	2222.3	503.9	211.0	227.8	233.4
62.5°	4825.3	5028.2	5216.2	5321.1	5318.0	3880.9	2304.6	480.6	204.7	235.0	244.6
65°	4826.3	5067.6	5307.2	5425.0	5431.1	3848.9	2168.7	424.4	193.0	236.0	255.7
67.5°	4424.0	4681.2	4960.4	5092.2	5122.7	3543.1	1877.3	349.0	174.0	225.8	259.8
70°	3736.4	3987.6	4272.6	4402.2	4456.2	3020.4	1512.1	269.0	149.7	203.5	251.4
72.5°	2943.6	3190.0	3388.4	3483.1	3525.3	2308.6	1101.1	203.2	122.7	171.4	228.8
75°	2084.1	2269.0	2374.4	2395.5	2402.1	1391.7	669.0	151.1	101.1	133.4	193.3
77.5°	1176.3	1255.6	1246.9	1256.3	1178.0	537.3	291.3	108.2	83.3	101.4	149.9
80°	459.2	473.4	444.8	435.9	399.8	199.9	128.5	75.4	66.6	76.7	104.9
82.5°	202.4	209.1	203.0	204.5	195.6	103.1	76.9	54.6	50.8	56.2	69.6
85°	111.5	113.5	113.0	116.3	111.5	41.1	36.6	33.6	35.6	38.1	44.7
87.5°	54.3	54.8	53.1	55.9	54.1	20.9	18.0	19.0	20.9	21.4	21.4
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):**

	135°	145°	155°	165°	175°	180°
0°	436.1	436.1	436.1	436.1	436.1	436.1
2.5°	411.9	410.0	410.2	409.7	408.7	408.7
5°	408.5	406.4	406.4	405.9	404.6	404.9
7.5°	411.9	408.7	407.4	405.6	403.9	403.9
10°	416.0	410.2	406.6	403.7	401.3	401.3
12.5°	419.1	410.0	404.2	400.1	397.7	397.7
15°	420.1	408.2	400.1	395.3	393.2	392.9
17.5°	416.9	401.3	391.4	385.9	383.3	382.5
20°	406.6	388.9	377.0	370.6	367.0	365.8
22.5°	391.4	371.1	357.1	350.6	346.0	345.1
25°	370.1	348.2	334.5	328.2	325.6	324.9
27.5°	345.1	324.9	313.2	309.1	306.9	306.6
30°	321.6	304.3	295.6	292.6	289.8	289.3
32.5°	299.5	288.6	285.2	280.9	274.4	273.5
35°	283.8	282.7	280.4	270.8	262.6	260.3
37.5°	274.0	283.5	271.8	252.8	246.9	246.4
40°	268.5	275.6	255.5	248.9	249.4	248.9
42.5°	255.7	263.1	256.0	253.0	255.0	255.5
45°	243.1	251.2	259.8	257.8	262.6	262.6
47.5°	236.0	248.2	259.6	259.6	266.7	269.2
50°	227.8	245.6	255.5	259.1	264.6	262.6
52.5°	227.3	241.3	249.7	256.0	258.6	256.2
55°	228.1	237.7	243.9	250.9	254.0	254.3
57.5°	229.1	235.7	239.8	243.1	252.3	252.3
60°	231.7	233.9	236.2	238.0	249.9	250.2
62.5°	235.7	232.1	231.7	233.4	248.7	247.7
65°	242.0	229.7	225.8	227.6	247.3	244.4
67.5°	250.7	225.8	218.4	219.7	246.4	239.8
70°	258.6	219.7	209.3	208.1	236.7	225.0
72.5°	259.3	212.6	196.6	192.8	205.7	194.6
75°	246.6	207.8	182.6	171.4	169.9	168.4
77.5°	222.3	205.0	166.3	148.8	145.8	146.8
80°	186.0	194.6	146.8	126.0	142.5	140.8
82.5°	138.9	171.8	124.7	111.5	111.3	98.3
85°	77.2	133.9	101.6	83.6	58.2	56.4
87.5°	21.6	74.5	71.1	47.3	32.2	33.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)