

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: P200342

Luminaire Tested: **GAP-AF-02-LED-U-T2R-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200342  
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: GAP-AF-02-LED-U-T2R-7050-800  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10456 lumens  
Efficiency: N/A  
Efficacy: 121.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G2

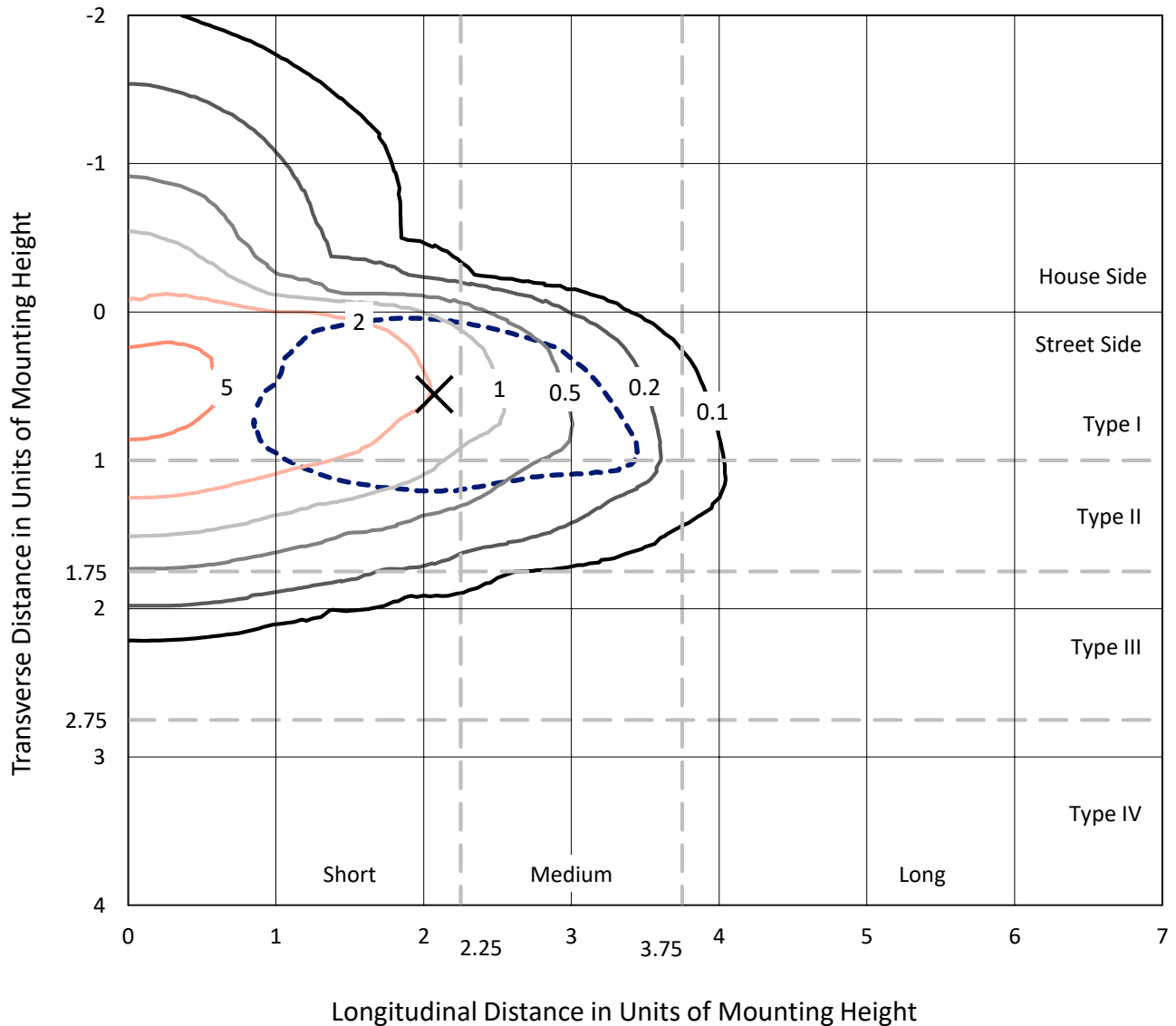
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

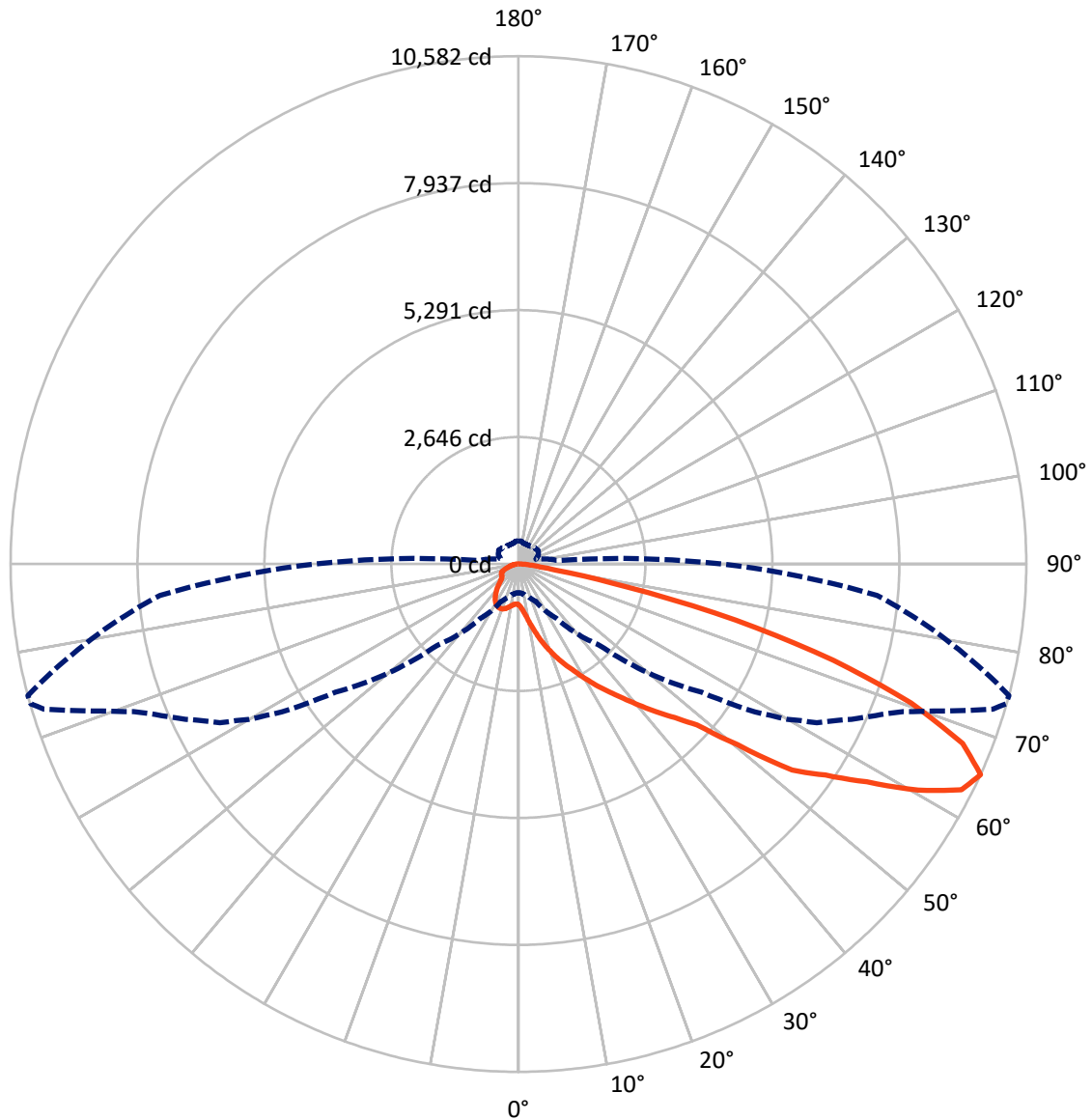
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 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	1612.1	0.0	1612.1
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	8843.9	0.0	8843.9
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	10456.0	0.0	10456.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.0	1.0
10°-20°	410.4	3.9
20°-30°	842.0	8.1
30°-40°	1416.6	13.5
40°-50°	1957.3	18.7
50°-60°	2443.3	23.4
60°-70°	2198.7	21.0
70°-80°	921.7	8.8
80°-90°	161.0	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°	10456.0	100.0
0°-180°	10456.0	100.0

**Coefficient of Utilization**



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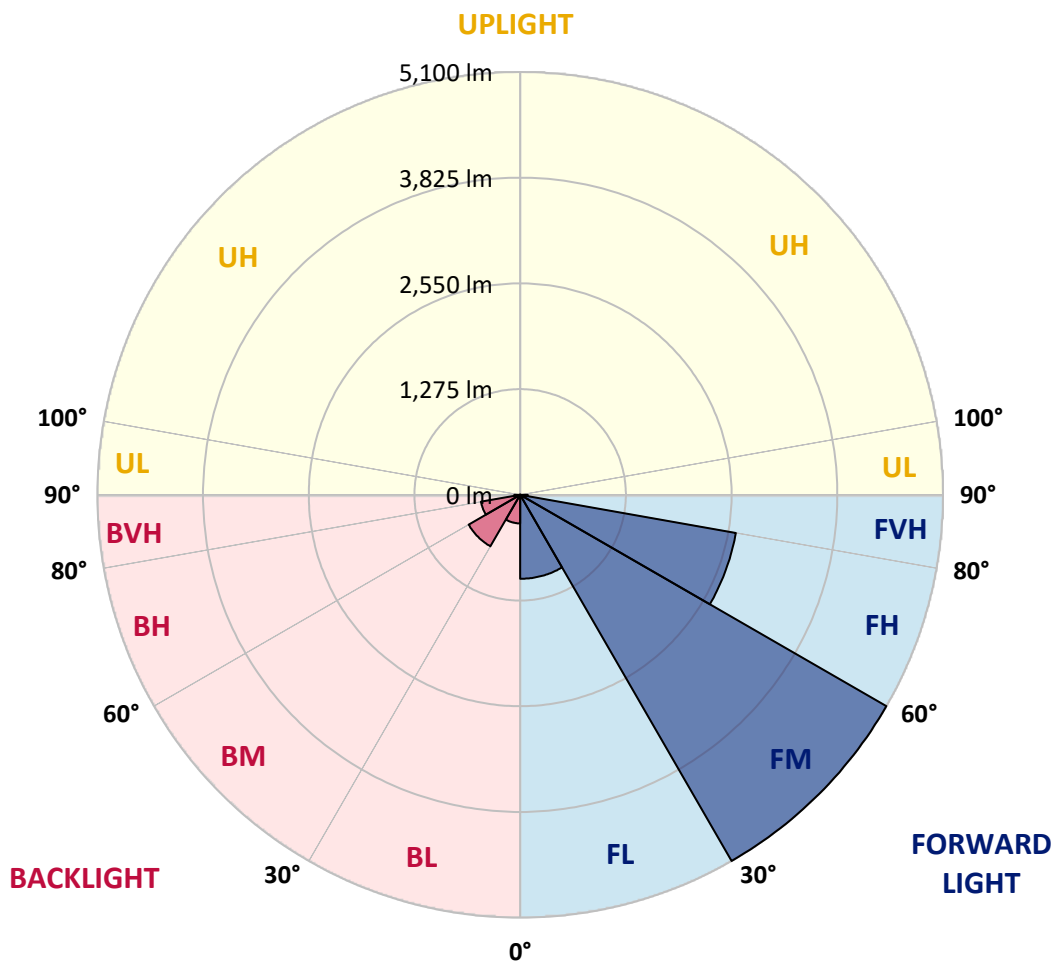
CATALOG NUMBER: GAP-AF-02-LED-U-T2R-7050-800

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1012.6	9.7			
FM (30°-60°)	5099.6	48.8			
FH (60°-80°)	2641.1	25.3			G2/5000
FVH (80°-90°)	90.5	0.9			G1/100
BL (0°-30°)	344.8	3.3	B1/500		
BM (30°-60°)	717.6	6.9	B1/1000		
BH (60°-80°)	479.3	4.6	B1/500		G1/500
BVH (80°-90°)	70.5	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	849.8	849.8	849.8	849.8	849.8	849.8	849.8	849.8	849.8	849.8	849.8
2.5°	1078.9	1067.0	1070.0	1050.2	1025.9	994.3	959.1	958.6	959.1	955.7	942.8
5°	1496.1	1481.7	1476.3	1431.8	1366.4	1273.4	1172.4	1161.5	1157.1	1145.7	1119.5
7.5°	1800.5	1792.5	1784.1	1750.5	1691.1	1587.2	1451.6	1428.3	1406.0	1400.6	1370.9
10°	1996.9	1995.0	1977.1	1968.2	1931.1	1841.0	1708.9	1686.6	1662.4	1654.0	1622.8
12.5°	2152.3	2151.8	2143.4	2145.9	2113.7	2048.4	1934.6	1914.3	1896.5	1870.7	1848.5
15°	2259.7	2260.2	2272.6	2286.5	2281.5	2237.5	2130.6	2121.7	2106.3	2088.5	2062.3
17.5°	2347.8	2350.3	2363.2	2388.4	2415.6	2412.2	2327.5	2320.1	2306.7	2282.5	2268.6
20°	2546.8	2556.2	2531.4	2531.4	2534.4	2547.8	2507.2	2501.2	2482.4	2469.6	2458.7
22.5°	2882.8	2893.7	2837.8	2780.9	2724.9	2684.4	2643.8	2651.2	2638.3	2629.4	2623.0
25°	3319.3	3327.7	3237.2	3141.2	3027.3	2878.9	2778.4	2773.9	2767.0	2761.6	2758.6
27.5°	3730.1	3733.6	3647.9	3507.4	3375.2	3161.9	2915.0	2909.5	2901.1	2890.7	2881.8
30°	4081.5	4080.5	3992.4	3858.3	3716.7	3480.7	3122.3	3105.5	3080.8	3052.6	3030.8
32.5°	4385.8	4384.4	4287.8	4148.8	4000.3	3796.4	3406.4	3371.8	3333.2	3278.2	3245.1
35°	4625.4	4624.4	4533.3	4388.3	4218.1	4093.8	3732.1	3689.5	3640.5	3566.8	3515.8
37.5°	4715.9	4715.9	4665.0	4566.0	4415.5	4330.4	4093.8	4042.4	3989.9	3906.3	3848.9
40°	4663.0	4664.0	4674.9	4656.6	4583.3	4518.0	4431.4	4400.7	4355.6	4280.4	4220.5
42.5°	4485.3	4490.8	4563.0	4651.6	4688.2	4677.8	4730.8	4716.9	4685.3	4627.4	4579.8
45°	4260.1	4277.0	4356.1	4523.4	4717.4	4815.9	4981.7	4983.2	4977.2	4946.1	4909.4
47.5°	3950.8	3974.6	4079.0	4305.2	4649.1	4950.0	5236.6	5249.9	5262.3	5242.0	5225.2
50°	3540.0	3568.3	3724.6	4024.6	4510.1	5089.1	5718.1	5778.5	5834.9	5828.0	5839.4
52.5°	3100.1	3133.2	3324.8	3658.8	4271.0	5121.3	6025.9	6124.4	6222.9	6303.6	6389.2
55°	2703.2	2685.3	2876.9	3228.8	3878.1	4976.3	6302.6	6421.4	6531.2	6630.2	6732.2
57.5°	2165.2	2194.4	2386.4	2734.3	3357.9	4567.0	6493.1	6666.9	6824.7	6988.5	7133.1
60°	1582.7	1611.9	1820.3	2173.6	2793.2	3946.4	6347.6	6610.9	6863.8	7114.7	7310.7
62.5°	955.7	977.4	1161.0	1497.6	2153.8	3210.4	5699.3	6044.8	6416.9	6716.8	7017.2
65°	594.9	607.2	675.0	860.1	1383.3	2396.8	4656.6	5033.2	5434.0	5814.6	6126.9
67.5°	487.0	491.4	503.8	543.4	759.7	1562.9	3465.8	3799.4	4161.2	4529.4	4876.8
70°	438.0	435.0	435.0	437.5	487.0	840.3	2269.1	2486.4	2787.8	3108.0	3425.7
72.5°	395.4	392.5	387.0	379.6	397.4	512.7	1172.9	1336.7	1554.0	1838.6	2142.9
75°	355.3	351.4	344.9	335.5	347.9	387.0	563.2	632.0	737.9	889.3	1059.1
77.5°	313.8	308.8	302.9	296.0	311.8	300.9	330.1	354.8	395.4	443.9	507.8
80°	266.8	262.3	260.3	256.9	275.7	229.1	233.1	248.4	272.2	298.4	328.1
82.5°	208.8	208.8	216.8	218.3	239.0	164.8	174.2	187.6	199.9	213.8	227.7
85°	137.6	138.6	165.3	175.7	188.6	110.9	130.7	135.1	145.0	152.9	158.9
87.5°	43.1	46.5	101.0	111.8	108.4	62.9	80.2	82.2	89.1	94.5	99.5
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°	849.8	849.8	849.8	849.8	849.8	849.8	849.8	849.8	849.8	849.8	849.8
2.5°	942.8	936.9	931.4	930.9	927.0	921.5	923.5	915.1	915.6	911.1	906.2
5°	1108.6	1104.6	1084.8	1079.4	1064.5	1055.1	1053.7	1033.9	1031.4	1020.0	1007.6
7.5°	1347.1	1334.3	1306.5	1293.2	1267.9	1249.1	1240.2	1214.0	1201.1	1171.4	1158.1
10°	1597.1	1580.7	1546.6	1527.8	1503.5	1473.3	1457.0	1418.9	1404.0	1376.8	1344.2
12.5°	1828.7	1812.3	1777.2	1762.8	1730.7	1698.5	1680.7	1637.6	1618.3	1574.8	1549.0
15°	2043.0	2026.6	1995.9	1981.1	1948.9	1922.7	1898.9	1856.4	1833.6	1793.0	1759.4
17.5°	2250.8	2233.5	2206.8	2193.4	2162.2	2135.5	2109.8	2069.7	2046.4	2005.8	1975.7
20°	2443.8	2431.0	2411.7	2393.9	2362.7	2338.4	2307.7	2273.1	2239.4	2209.7	2181.0
22.5°	2612.1	2607.2	2586.4	2578.4	2551.7	2530.9	2504.2	2470.1	2445.8	2408.2	2381.5
25°	2757.1	2755.6	2745.7	2743.3	2724.4	2704.6	2698.7	2670.5	2648.2	2615.1	2587.4
27.5°	2881.8	2883.3	2880.8	2887.8	2882.8	2873.9	2874.4	2865.0	2852.1	2824.4	2800.2
30°	3020.4	3012.5	3016.9	3026.8	3029.8	3030.8	3047.1	3052.6	3051.6	3033.3	3021.4
32.5°	3216.4	3197.6	3180.3	3178.8	3188.7	3192.6	3220.3	3234.7	3247.1	3251.5	3253.5
35°	3466.3	3428.7	3392.6	3373.3	3356.4	3360.9	3380.7	3403.9	3431.2	3450.0	3472.2
37.5°	3781.1	3735.0	3671.2	3625.7	3614.3	3589.5	3602.4	3620.7	3647.4	3676.6	3715.2
40°	4162.6	4092.9	4021.1	3960.7	3928.1	3882.5	3882.0	3878.6	3894.9	3922.1	3976.6
42.5°	4529.9	4468.0	4391.8	4328.4	4285.9	4225.0	4212.6	4180.5	4187.9	4211.6	4264.6
45°	4873.8	4822.8	4776.3	4703.1	4666.9	4601.1	4580.3	4542.2	4520.9	4531.8	4584.8
47.5°	5206.9	5174.2	5125.7	5078.2	5050.5	4991.6	4964.9	4937.7	4910.4	4909.4	4964.9
50°	5856.2	5838.9	5781.5	5732.0	5745.3	5673.1	5677.5	5604.3	5637.5	5641.4	5757.7
52.5°	6466.4	6526.8	6569.4	6621.3	6655.0	6661.4	6683.7	6716.8	6756.9	6836.1	6944.0
55°	6815.8	6891.5	6935.6	6975.2	7040.5	7054.4	7091.5	7135.5	7170.7	7259.7	7351.3
57.5°	7231.0	7371.6	7439.9	7502.7	7590.8	7624.5	7686.4	7734.4	7779.9	7885.3	7996.2
60°	7486.9	7658.1	7797.2	7896.7	8007.1	8086.2	8179.8	8255.0	8361.9	8488.1	8653.4
62.5°	7283.5	7534.9	7719.5	7890.3	8040.2	8191.6	8325.8	8466.3	8628.6	8819.7	9076.0
65°	6473.3	6729.2	7045.5	7222.6	7421.1	7654.7	7858.6	8086.2	8307.5	8585.6	8964.7
67.5°	5211.3	5508.8	5864.1	6042.8	6270.9	6531.7	6760.4	7038.5	7296.9	7633.9	8102.6
70°	3756.3	4140.9	4439.8	4626.4	4892.6	5161.4	5382.1	5705.7	5919.5	6265.0	6749.5
72.5°	2378.5	2681.9	3048.1	3283.2	3519.8	3792.0	4017.6	4296.8	4496.2	4811.0	5249.9
75°	1278.8	1502.5	1824.2	2047.4	2300.8	2533.4	2797.7	2984.8	3132.2	3381.2	3737.5
77.5°	599.3	735.4	898.3	1070.0	1241.7	1420.9	1595.1	1746.5	1809.9	1952.4	2162.7
80°	363.8	407.8	455.3	508.3	580.0	637.9	714.6	770.1	774.0	819.1	883.4
82.5°	243.0	259.3	273.7	287.0	305.4	319.7	336.0	355.3	363.3	373.7	394.4
85°	165.8	173.7	176.7	185.1	183.1	188.1	194.5	200.9	204.4	203.9	213.3
87.5°	102.0	105.9	107.9	109.9	108.4	106.4	109.4	112.8	113.8	110.9	111.8
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°	849.8	849.8	849.8	849.8	849.8	849.8	849.8	849.8	849.8	849.8	849.8
2.5°	907.2	902.7	898.3	895.3	894.3	868.1	856.7	849.3	833.4	820.6	810.2
5°	1000.7	991.3	983.9	975.0	970.0	903.7	879.4	862.6	834.9	818.6	803.7
7.5°	1151.1	1124.9	1109.6	1092.3	1077.4	957.6	917.6	891.3	852.7	830.9	814.1
10°	1321.9	1294.7	1270.4	1243.7	1220.4	1029.4	971.0	930.4	879.4	851.2	829.0
12.5°	1512.4	1485.7	1455.0	1420.9	1391.2	1120.5	1039.3	981.4	911.6	874.0	842.8
15°	1737.6	1690.6	1653.5	1613.9	1579.2	1229.3	1119.0	1038.8	945.8	894.8	853.2
17.5°	1947.0	1897.5	1847.0	1812.3	1772.3	1351.6	1199.2	1097.2	974.0	908.1	855.2
20°	2151.3	2097.4	2053.9	2007.3	1965.3	1478.3	1284.8	1148.7	992.3	908.6	842.8
22.5°	2331.5	2297.8	2249.3	2198.9	2156.3	1605.0	1364.9	1192.2	999.2	897.3	821.0
25°	2536.4	2500.7	2441.4	2398.8	2351.3	1734.1	1443.6	1225.9	995.3	876.0	787.4
27.5°	2755.1	2715.5	2654.7	2610.1	2552.7	1868.3	1515.9	1250.1	980.4	841.3	742.4
30°	2983.3	2947.2	2887.3	2842.2	2784.3	2010.3	1596.6	1266.5	950.7	793.3	689.9
32.5°	3228.3	3198.1	3138.7	3091.7	3029.8	2164.2	1671.8	1271.4	905.7	736.4	634.5
35°	3460.9	3440.1	3390.1	3346.0	3281.7	2309.7	1751.5	1268.9	852.2	674.1	584.0
37.5°	3722.7	3710.3	3685.5	3629.6	3550.9	2507.2	1847.0	1258.5	786.9	612.2	545.4
40°	4001.8	4002.8	3976.1	3938.0	3864.7	2746.7	1960.8	1238.2	715.6	557.8	510.2
42.5°	4297.3	4312.6	4299.7	4272.5	4202.2	2988.2	2096.9	1213.5	646.3	504.8	475.6
45°	4635.8	4654.6	4674.4	4634.3	4566.0	3306.9	2276.1	1181.3	571.6	460.8	451.8
47.5°	5026.2	5055.9	5073.8	5074.2	5006.0	3701.9	2567.1	1162.0	505.3	431.1	440.5
50°	5850.3	5859.7	5901.7	5975.0	5922.5	4616.0	3075.3	1150.2	460.3	412.7	432.1
52.5°	7037.5	7141.0	7213.7	7208.8	7137.5	5196.5	3355.4	1088.8	433.5	405.8	428.1
55°	7521.1	7650.2	7784.8	7820.5	7765.0	5691.9	3620.2	1027.4	420.7	410.8	429.6
57.5°	8165.4	8383.2	8567.8	8645.5	8565.3	6325.9	3968.6	995.3	416.7	424.1	439.0
60°	8918.2	9187.4	9429.9	9569.5	9569.5	7054.4	4329.9	981.9	411.3	443.9	454.8
62.5°	9401.7	9797.1	10163.3	10367.7	10361.8	7561.6	4490.3	936.4	398.9	457.8	476.6
65°	9403.7	9873.8	10340.5	10570.2	10582.0	7499.3	4225.5	827.0	376.1	459.8	498.4
67.5°	8619.7	9121.1	9665.0	9921.8	9981.2	6903.4	3657.8	680.0	339.0	440.0	506.3
70°	7280.0	7769.5	8324.8	8577.2	8682.6	5884.9	2946.2	524.1	291.5	396.4	490.0
72.5°	5735.4	6215.5	6602.0	6786.6	6868.8	4498.2	2145.4	395.9	239.0	334.1	445.9
75°	4060.7	4421.0	4626.4	4667.4	4680.3	2711.6	1303.6	294.5	197.0	259.8	376.6
77.5°	2291.9	2446.3	2429.5	2447.8	2295.4	1046.7	567.7	210.8	162.3	197.5	292.0
80°	894.8	922.5	866.6	849.3	779.0	389.5	250.4	147.0	129.7	149.5	204.4
82.5°	394.4	407.3	395.4	398.4	381.1	200.9	150.0	106.4	99.0	109.4	135.6
85°	217.3	221.2	220.2	226.7	217.3	80.2	71.3	65.3	69.3	74.2	87.1
87.5°	105.9	106.9	103.4	108.9	105.4	40.6	35.1	37.1	40.6	41.6	41.6
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°	849.8	849.8	849.8	849.8	849.8	849.8
2.5°	802.7	798.8	799.3	798.3	796.3	796.3
5°	795.8	791.8	791.8	790.9	788.4	788.9
7.5°	802.7	796.3	793.8	790.4	786.9	786.9
10°	810.7	799.3	792.3	786.4	781.9	781.9
12.5°	816.6	798.8	787.4	779.5	775.0	775.0
15°	818.6	795.3	779.5	770.1	766.1	765.6
17.5°	812.1	781.9	762.6	751.8	746.8	745.3
20°	792.3	757.7	734.4	722.1	715.1	712.7
22.5°	762.6	723.1	695.8	683.0	674.1	672.6
25°	721.1	678.5	651.8	639.4	634.5	633.0
27.5°	672.6	633.0	610.2	602.3	597.8	597.3
30°	626.5	592.9	576.1	570.1	564.7	563.7
32.5°	583.5	562.2	555.8	547.4	534.5	533.0
35°	552.8	550.8	546.4	527.6	511.7	507.3
37.5°	534.0	552.3	529.5	492.4	481.0	480.1
40°	523.1	537.0	497.9	485.0	486.0	485.0
42.5°	498.4	512.7	498.9	492.9	496.9	497.9
45°	473.6	489.5	506.3	502.3	511.7	511.7
47.5°	459.8	483.5	505.8	505.8	519.6	524.6
50°	443.9	478.6	497.9	504.8	515.7	511.7
52.5°	442.9	470.2	486.5	498.9	503.8	499.4
55°	444.4	463.2	475.1	489.0	494.9	495.4
57.5°	446.4	459.3	467.2	473.6	491.4	491.4
60°	451.4	455.8	460.3	463.7	487.0	487.5
62.5°	459.3	452.3	451.4	454.8	484.5	482.5
65°	471.6	447.4	440.0	443.4	482.0	476.1
67.5°	488.5	440.0	425.6	428.1	480.1	467.2
70°	503.8	428.1	407.8	405.3	461.3	438.5
72.5°	505.3	414.2	383.1	375.6	400.9	379.1
75°	480.6	404.8	355.8	334.1	331.1	328.1
77.5°	433.0	399.4	324.2	290.0	284.1	286.1
80°	362.3	379.1	286.1	245.5	277.6	274.2
82.5°	270.7	334.6	243.0	217.3	216.8	191.5
85°	150.5	260.8	198.0	162.8	113.3	109.9
87.5°	42.1	145.0	138.6	92.1	62.9	65.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)