

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: P200343

Luminaire Tested: **GAP-AF-01-LED-U-T2R-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200343
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-01-LED-U-T2R-7050
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6623 lumens
Efficiency: N/A
Efficacy: 112.3 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

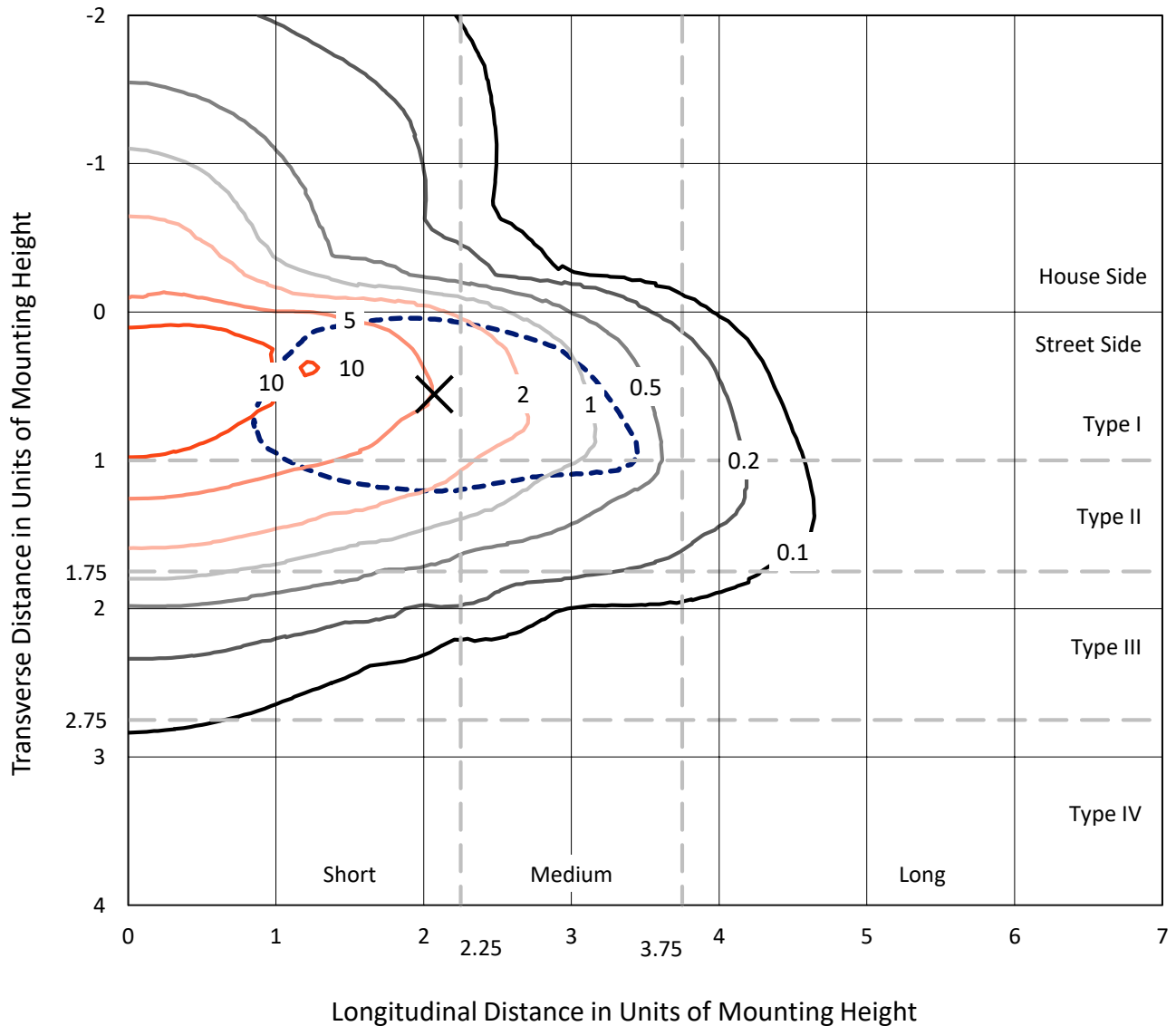
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

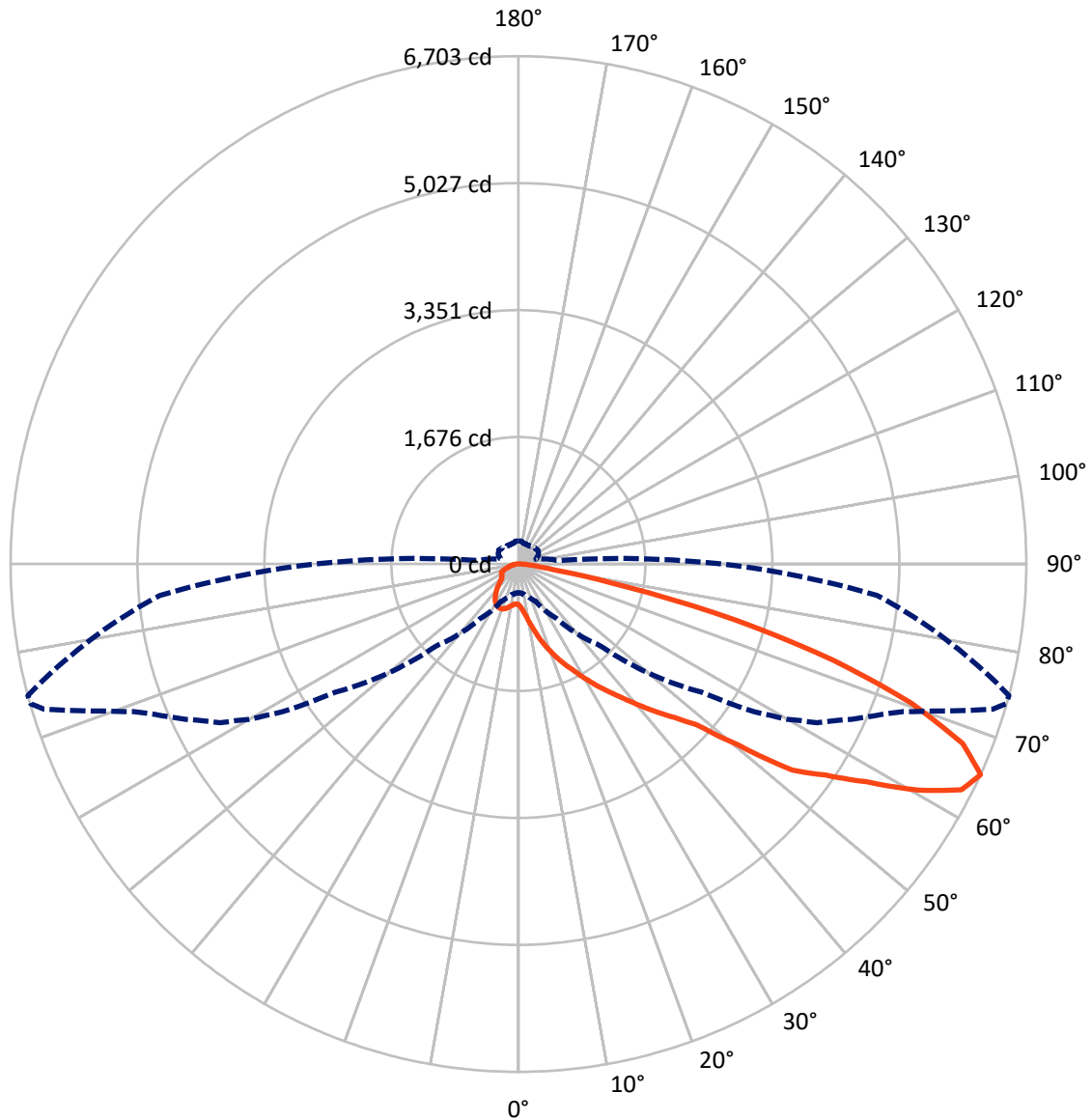
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.7 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
House Side	Lumens	1021.1	0.0	1021.1
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	5601.9	0.0	5601.9
	% Fixture	84.6	0.0	84.6
Total	Lumens	6623.0	0.0	6623.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	1.0
10°-20°	259.9	3.9
20°-30°	533.3	8.1
30°-40°	897.3	13.5
40°-50°	1239.8	18.7
50°-60°	1547.6	23.4
60°-70°	1392.7	21.0
70°-80°	583.8	8.8
80°-90°	102.0	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°	6623.0	100.0
0°-180°	6623.0	100.0

Coefficient of Utilization



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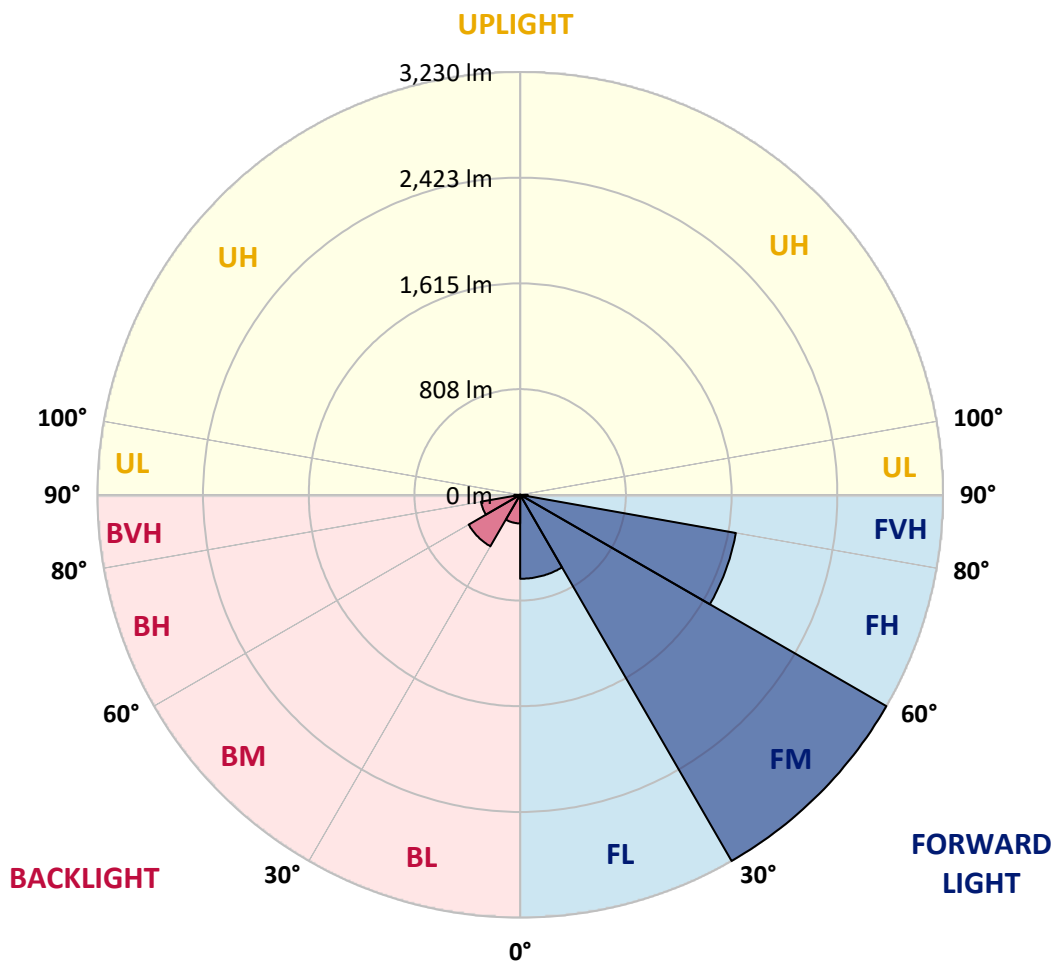
CATALOG NUMBER: GAP-AF-01-LED-U-T2R-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	641.4	9.7			
FM	(30°-60°)	3230.2	48.8			
FH	(60°-80°)	1672.9	25.3			G1/1800
FVH	(80°-90°)	57.3	0.9			G1/100
BL	(0°-30°)	218.4	3.3	B1/500		
BM	(30°-60°)	454.5	6.9	B1/1000		
BH	(60°-80°)	303.6	4.6	B1/500		G1/500
BVH	(80°-90°)	44.7	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°	538.2	538.2	538.2	538.2	538.2	538.2	538.2	538.2	538.2	538.2	538.2
2.5°	683.4	675.9	677.7	665.2	649.8	629.8	607.5	607.2	607.5	605.3	597.2
5°	947.7	938.6	935.1	906.9	865.5	806.6	742.6	735.7	732.9	725.7	709.1
7.5°	1140.4	1135.4	1130.1	1108.8	1071.2	1005.3	919.4	904.7	890.6	887.1	868.3
10°	1264.9	1263.6	1252.4	1246.7	1223.2	1166.1	1082.4	1068.3	1053.0	1047.7	1027.9
12.5°	1363.3	1363.0	1357.7	1359.2	1338.9	1297.5	1225.4	1212.5	1201.3	1185.0	1170.8
15°	1431.4	1431.7	1439.5	1448.3	1445.1	1417.2	1349.5	1343.9	1334.2	1322.9	1306.3
17.5°	1487.1	1488.7	1496.9	1512.9	1530.1	1527.9	1474.3	1469.6	1461.1	1445.8	1437.0
20°	1613.2	1619.1	1603.5	1603.5	1605.3	1613.8	1588.1	1584.3	1572.4	1564.3	1557.4
22.5°	1826.0	1832.9	1797.5	1761.4	1726.0	1700.3	1674.6	1679.3	1671.2	1665.5	1661.4
25°	2102.5	2107.8	2050.5	1989.7	1917.6	1823.5	1759.9	1757.1	1752.7	1749.2	1747.3
27.5°	2362.7	2364.9	2310.7	2221.6	2137.9	2002.8	1846.4	1842.9	1837.6	1831.0	1825.4
30°	2585.3	2584.6	2528.8	2443.9	2354.2	2204.7	1977.7	1967.1	1951.4	1933.5	1919.8
32.5°	2778.1	2777.1	2716.0	2627.9	2533.9	2404.7	2157.7	2135.7	2111.3	2076.5	2055.5
35°	2929.8	2929.2	2871.5	2779.6	2671.8	2593.1	2364.0	2337.0	2306.0	2259.3	2227.0
37.5°	2987.2	2987.2	2954.9	2892.2	2796.9	2743.0	2593.1	2560.5	2527.3	2474.3	2437.9
40°	2953.6	2954.2	2961.1	2949.5	2903.1	2861.8	2806.9	2787.5	2758.9	2711.3	2673.4
42.5°	2841.1	2844.5	2890.3	2946.4	2969.6	2963.0	2996.6	2987.8	2967.7	2931.0	2900.9
45°	2698.4	2709.1	2759.3	2865.2	2988.1	3050.5	3155.5	3156.4	3152.7	3132.9	3109.7
47.5°	2502.5	2517.6	2583.7	2727.0	2944.8	3135.4	3316.9	3325.4	3333.2	3320.4	3309.7
50°	2242.3	2260.2	2359.3	2549.2	2856.7	3223.5	3621.9	3660.2	3695.9	3691.5	3698.8
52.5°	1963.6	1984.6	2106.0	2317.6	2705.3	3243.9	3816.9	3879.3	3941.7	3992.8	4047.0
55°	1712.2	1700.9	1822.3	2045.1	2456.4	3152.0	3992.2	4067.4	4137.0	4199.7	4264.3
57.5°	1371.5	1390.0	1511.6	1732.0	2127.0	2892.8	4112.9	4222.9	4322.9	4426.7	4518.2
60°	1002.5	1021.0	1153.0	1376.8	1769.3	2499.7	4020.7	4187.5	4347.7	4506.6	4630.7
62.5°	605.3	619.1	735.4	948.6	1364.3	2033.5	3610.0	3828.8	4064.6	4254.6	4444.8
65°	376.8	384.6	427.6	544.8	876.2	1518.2	2949.5	3188.1	3442.0	3683.1	3880.9
67.5°	308.5	311.3	319.1	344.2	481.2	990.0	2195.3	2406.6	2635.7	2869.0	3089.0
70°	277.4	275.5	275.5	277.1	308.5	532.3	1437.3	1574.9	1765.8	1968.7	2169.9
72.5°	250.5	248.6	245.1	240.4	251.7	324.8	742.9	846.7	984.3	1164.6	1357.4
75°	225.1	222.6	218.5	212.5	220.4	245.1	356.7	400.3	467.4	563.3	670.8
77.5°	198.7	195.6	191.8	187.5	197.5	190.6	209.1	224.8	250.5	281.2	321.6
80°	169.0	166.1	164.9	162.7	174.6	145.1	147.6	157.4	172.4	189.0	207.8
82.5°	132.3	132.3	137.3	138.2	151.4	104.4	110.3	118.8	126.6	135.4	144.2
85°	87.1	87.8	104.7	111.3	119.4	70.2	82.8	85.6	91.8	96.9	100.6
87.5°	27.3	29.5	63.9	70.8	68.7	39.8	50.8	52.0	56.4	59.9	63.0
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°	538.2	538.2	538.2	538.2	538.2	538.2	538.2	538.2	538.2	538.2	538.2
2.5°	597.2	593.4	590.0	589.7	587.1	583.7	585.0	579.6	579.9	577.1	574.0
5°	702.2	699.7	687.1	683.7	674.3	668.3	667.4	654.9	653.3	646.1	638.2
7.5°	853.3	845.1	827.6	819.1	803.1	791.2	785.6	769.0	760.8	742.0	733.5
10°	1011.6	1001.3	979.6	967.7	952.4	933.2	922.9	898.7	889.3	872.1	851.4
12.5°	1158.3	1148.0	1125.7	1116.6	1096.2	1075.9	1064.6	1037.3	1025.1	997.5	981.2
15°	1294.0	1283.7	1264.3	1254.9	1234.5	1217.9	1202.8	1175.9	1161.4	1135.7	1114.4
17.5°	1425.7	1414.7	1397.8	1389.3	1369.6	1352.7	1336.4	1311.0	1296.2	1270.5	1251.4
20°	1548.0	1539.8	1527.6	1516.3	1496.6	1481.2	1461.8	1439.8	1418.5	1399.7	1381.5
22.5°	1654.5	1651.4	1638.2	1633.2	1616.3	1603.1	1586.2	1564.6	1549.2	1525.4	1508.5
25°	1746.4	1745.5	1739.2	1737.6	1725.7	1713.2	1709.4	1691.5	1677.4	1656.4	1638.9
27.5°	1825.4	1826.3	1824.8	1829.2	1826.0	1820.4	1820.7	1814.7	1806.6	1789.0	1773.7
30°	1913.2	1908.2	1911.0	1917.2	1919.1	1919.8	1930.1	1933.5	1932.9	1921.3	1913.8
32.5°	2037.3	2025.4	2014.4	2013.5	2019.8	2022.3	2039.8	2048.9	2056.7	2059.6	2060.8
35°	2195.6	2171.8	2148.9	2136.7	2126.0	2128.8	2141.4	2156.1	2173.4	2185.3	2199.4
37.5°	2395.0	2365.8	2325.4	2296.6	2289.3	2273.7	2281.8	2293.4	2310.3	2328.8	2353.3
40°	2636.7	2592.5	2547.0	2508.8	2488.1	2459.3	2458.9	2456.7	2467.1	2484.3	2518.8
42.5°	2869.3	2830.1	2781.8	2741.7	2714.7	2676.2	2668.3	2648.0	2652.7	2667.7	2701.3
45°	3087.2	3054.9	3025.4	2979.0	2956.1	2914.4	2901.3	2877.1	2863.6	2870.5	2904.1
47.5°	3298.1	3277.4	3246.7	3216.6	3199.1	3161.8	3144.8	3127.6	3110.4	3109.7	3144.8
50°	3709.4	3698.4	3662.1	3630.7	3639.2	3593.4	3596.2	3549.8	3570.9	3573.4	3647.0
52.5°	4095.9	4134.2	4161.1	4194.1	4215.4	4219.4	4233.5	4254.6	4279.9	4330.1	4398.4
55°	4317.2	4365.2	4393.1	4418.2	4459.6	4468.3	4491.9	4519.8	4542.0	4598.4	4656.4
57.5°	4580.3	4669.3	4712.5	4752.4	4808.2	4829.5	4868.7	4899.1	4927.9	4994.7	5064.9
60°	4742.3	4850.8	4938.9	5001.9	5071.8	5122.0	5181.2	5228.8	5296.6	5376.5	5481.2
62.5°	4613.5	4772.7	4889.7	4997.8	5092.8	5188.7	5273.7	5362.7	5465.5	5586.5	5748.9
65°	4100.3	4262.4	4462.7	4574.9	4700.6	4848.6	4977.8	5122.0	5262.1	5438.3	5678.4
67.5°	3300.9	3489.3	3714.4	3827.6	3972.1	4137.3	4282.1	4458.3	4622.0	4835.4	5132.3
70°	2379.3	2622.9	2812.2	2930.4	3099.1	3269.3	3409.1	3614.1	3749.5	3968.3	4275.2
72.5°	1506.6	1698.7	1930.7	2079.6	2229.5	2401.9	2544.8	2721.6	2848.0	3047.3	3325.4
75°	810.0	951.7	1155.5	1296.9	1457.4	1604.7	1772.1	1890.6	1984.0	2141.7	2367.4
77.5°	379.6	465.8	569.0	677.7	786.5	900.0	1010.3	1106.3	1146.4	1236.7	1369.9
80°	230.4	258.3	288.4	321.9	367.4	404.1	452.7	487.8	490.3	518.8	559.6
82.5°	153.9	164.3	173.4	181.8	193.4	202.5	212.9	225.1	230.1	236.7	249.8
85°	105.0	110.0	111.9	117.2	116.0	119.1	123.2	127.3	129.5	129.2	135.1
87.5°	64.6	67.1	68.3	69.6	68.7	67.4	69.3	71.5	72.1	70.2	70.8
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°	538.2	538.2	538.2	538.2	538.2	538.2	538.2	538.2	538.2	538.2	538.2
2.5°	574.6	571.8	569.0	567.1	566.5	549.8	542.6	537.9	527.9	519.8	513.2
5°	633.9	627.9	623.2	617.6	614.4	572.4	557.1	546.4	528.8	518.5	509.1
7.5°	729.2	712.5	702.8	691.9	682.4	606.6	581.2	564.6	540.1	526.3	515.7
10°	837.3	820.1	804.7	787.8	773.0	652.0	615.0	589.3	557.1	539.2	525.1
12.5°	958.0	941.1	921.6	900.0	881.2	709.7	658.3	621.6	577.4	553.6	533.9
15°	1100.6	1070.8	1047.3	1022.3	1000.3	778.7	708.8	658.0	599.1	566.8	540.4
17.5°	1233.2	1201.9	1169.9	1148.0	1122.6	856.1	759.6	695.0	616.9	575.2	541.7
20°	1362.7	1328.5	1300.9	1271.5	1244.8	936.4	813.8	727.6	628.5	575.5	533.9
22.5°	1476.8	1455.5	1424.8	1392.8	1365.8	1016.6	864.6	755.2	632.9	568.3	520.1
25°	1606.6	1584.0	1546.4	1519.4	1489.3	1098.4	914.4	776.5	630.4	554.9	498.7
27.5°	1745.1	1720.1	1681.5	1653.3	1616.9	1183.4	960.2	791.9	621.0	532.9	470.2
30°	1889.7	1866.8	1828.8	1800.3	1763.6	1273.4	1011.3	802.2	602.2	502.5	437.0
32.5°	2044.8	2025.7	1988.1	1958.3	1919.1	1370.8	1058.9	805.3	573.7	466.5	401.9
35°	2192.2	2179.0	2147.3	2119.4	2078.7	1463.0	1109.4	803.8	539.8	427.0	369.9
37.5°	2358.0	2350.2	2334.5	2299.1	2249.2	1588.1	1169.9	797.2	498.4	387.8	345.5
40°	2534.8	2535.4	2518.5	2494.4	2448.0	1739.8	1242.0	784.3	453.3	353.3	323.2
42.5°	2721.9	2731.7	2723.5	2706.3	2661.8	1892.8	1328.2	768.7	409.4	319.7	301.3
45°	2936.4	2948.3	2960.8	2935.4	2892.2	2094.7	1441.7	748.3	362.1	291.9	286.2
47.5°	3183.7	3202.5	3213.8	3214.1	3170.9	2344.8	1626.0	736.1	320.1	273.0	279.0
50°	3705.6	3711.6	3738.3	3784.6	3751.4	2923.8	1948.0	728.5	291.5	261.4	273.7
52.5°	4457.7	4523.2	4569.3	4566.2	4521.0	3291.5	2125.4	689.7	274.6	257.1	271.2
55°	4764.0	4845.8	4931.0	4953.6	4918.5	3605.3	2293.1	650.8	266.5	260.2	272.1
57.5°	5172.1	5310.0	5427.0	5476.2	5425.4	4006.9	2513.8	630.4	264.0	268.7	278.1
60°	5648.9	5819.4	5973.1	6061.5	6061.5	4468.3	2742.6	621.9	260.5	281.2	288.1
62.5°	5955.2	6205.7	6437.6	6567.1	6563.3	4789.7	2844.2	593.1	252.7	290.0	301.9
65°	5956.4	6254.2	6549.9	6695.3	6702.8	4750.2	2676.5	523.8	238.2	291.2	315.7
67.5°	5459.9	5777.4	6122.0	6284.7	6322.3	4372.7	2316.9	430.7	214.7	278.7	320.7
70°	4611.3	4921.3	5273.0	5432.9	5499.7	3727.6	1866.1	332.0	184.6	251.1	310.3
72.5°	3632.9	3937.0	4181.8	4298.8	4350.8	2849.2	1358.9	250.8	151.4	211.6	282.4
75°	2572.1	2800.3	2930.4	2956.4	2964.6	1717.6	825.7	186.5	124.8	164.6	238.6
77.5°	1451.7	1549.5	1538.9	1550.5	1453.9	663.0	359.6	133.5	102.8	125.1	185.0
80°	566.8	584.3	548.9	537.9	493.4	246.7	158.6	93.1	82.1	94.7	129.5
82.5°	249.8	258.0	250.5	252.4	241.4	127.3	95.0	67.4	62.7	69.3	85.9
85°	137.6	140.1	139.5	143.6	137.6	50.8	45.1	41.4	43.9	47.0	55.2
87.5°	67.1	67.7	65.5	69.0	66.8	25.7	22.3	23.5	25.7	26.3	26.3
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°	538.2	538.2	538.2	538.2	538.2	538.2
2.5°	508.5	506.0	506.3	505.6	504.4	504.4
5°	504.1	501.6	501.6	500.9	499.4	499.7
7.5°	508.5	504.4	502.8	500.6	498.4	498.4
10°	513.5	506.3	501.9	498.1	495.3	495.3
12.5°	517.2	506.0	498.7	493.7	490.9	490.9
15°	518.5	503.8	493.7	487.8	485.3	485.0
17.5°	514.4	495.3	483.1	476.2	473.0	472.1
20°	501.9	479.9	465.2	457.4	453.0	451.4
22.5°	483.1	458.0	440.8	432.6	427.0	426.0
25°	456.7	429.8	412.9	405.0	401.9	400.9
27.5°	426.0	400.9	386.5	381.5	378.7	378.4
30°	396.9	375.5	364.9	361.1	357.7	357.1
32.5°	369.6	356.1	352.0	346.7	338.6	337.6
35°	350.2	348.9	346.1	334.2	324.1	321.3
37.5°	338.2	349.8	335.4	311.9	304.7	304.1
40°	331.3	340.1	315.4	307.2	307.8	307.2
42.5°	315.7	324.8	316.0	312.2	314.7	315.4
45°	300.0	310.0	320.7	318.2	324.1	324.1
47.5°	291.2	306.3	320.4	320.4	329.2	332.3
50°	281.2	303.1	315.4	319.7	326.6	324.1
52.5°	280.6	297.8	308.2	316.0	319.1	316.3
55°	281.5	293.4	300.9	309.7	313.5	313.8
57.5°	282.8	290.9	295.9	300.0	311.3	311.3
60°	285.9	288.7	291.5	293.7	308.5	308.8
62.5°	290.9	286.5	285.9	288.1	306.9	305.6
65°	298.7	283.4	278.7	280.9	305.3	301.6
67.5°	309.4	278.7	269.6	271.2	304.1	295.9
70°	319.1	271.2	258.3	256.7	292.2	277.7
72.5°	320.1	262.4	242.6	237.9	253.9	240.1
75°	304.4	256.4	225.4	211.6	209.7	207.8
77.5°	274.3	253.0	205.3	183.7	179.9	181.2
80°	229.5	240.1	181.2	155.5	175.9	173.7
82.5°	171.5	211.9	153.9	137.6	137.3	121.3
85°	95.3	165.2	125.4	103.1	71.8	69.6
87.5°	26.6	91.8	87.8	58.3	39.8	41.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)