

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: P269902

Luminaire Tested: **GAP-AF-02-LED-U-T2R-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269902
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-7027-600
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7408.2 lumens
Efficiency: N/A
Efficacy: 112.2 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): 66
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

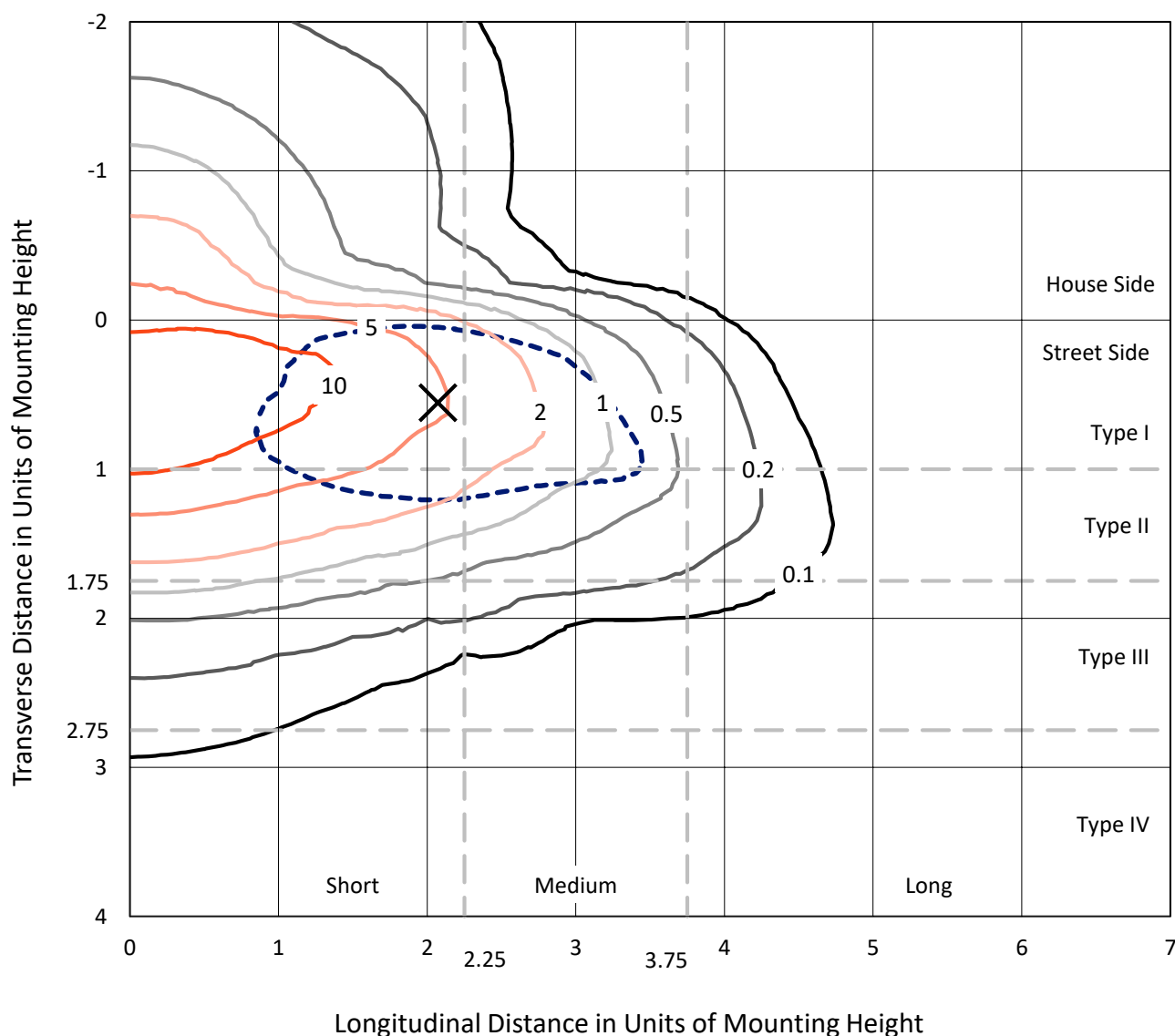


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

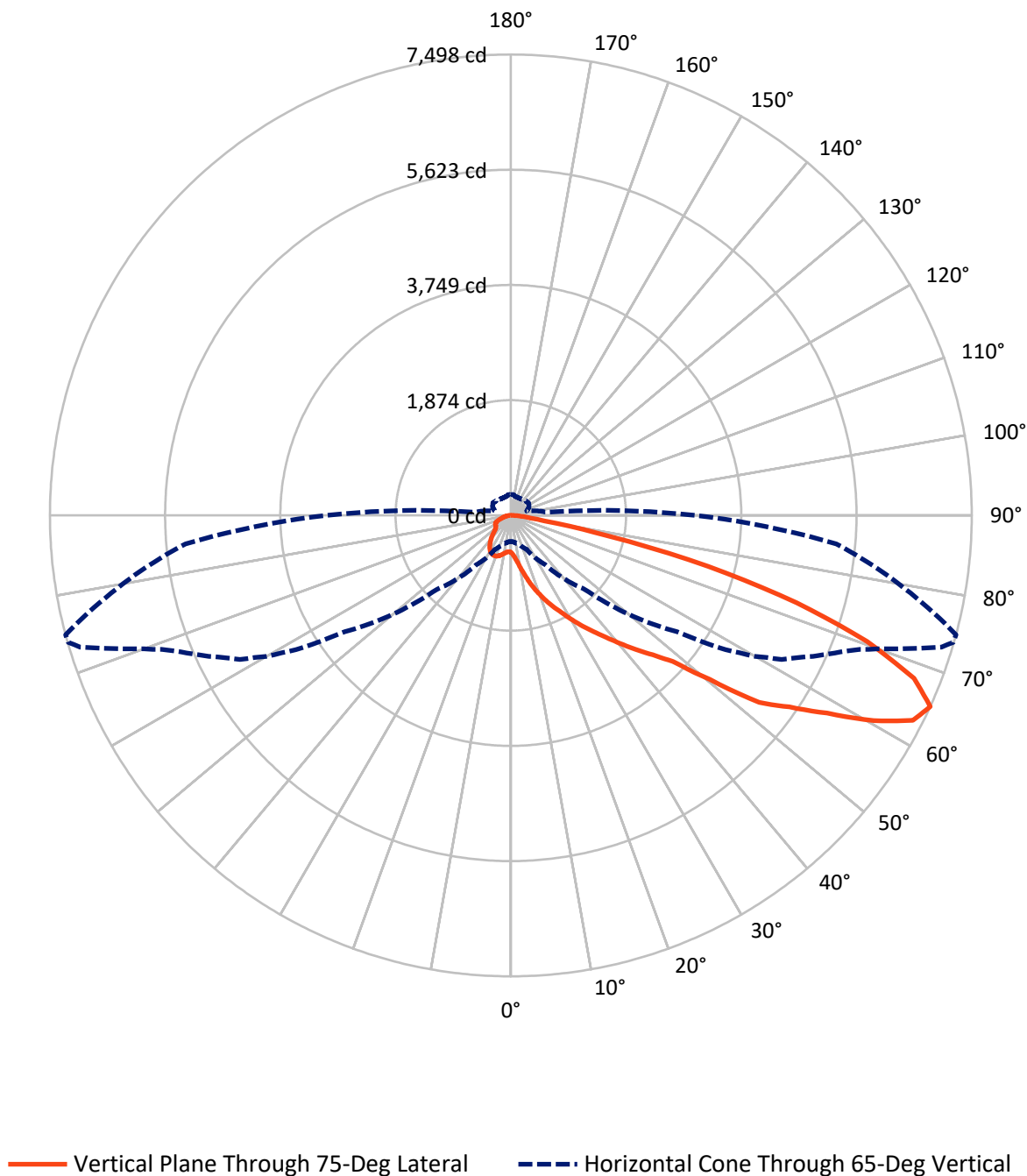


Based on 10 foot mounting height. Maximum calculated value = 18.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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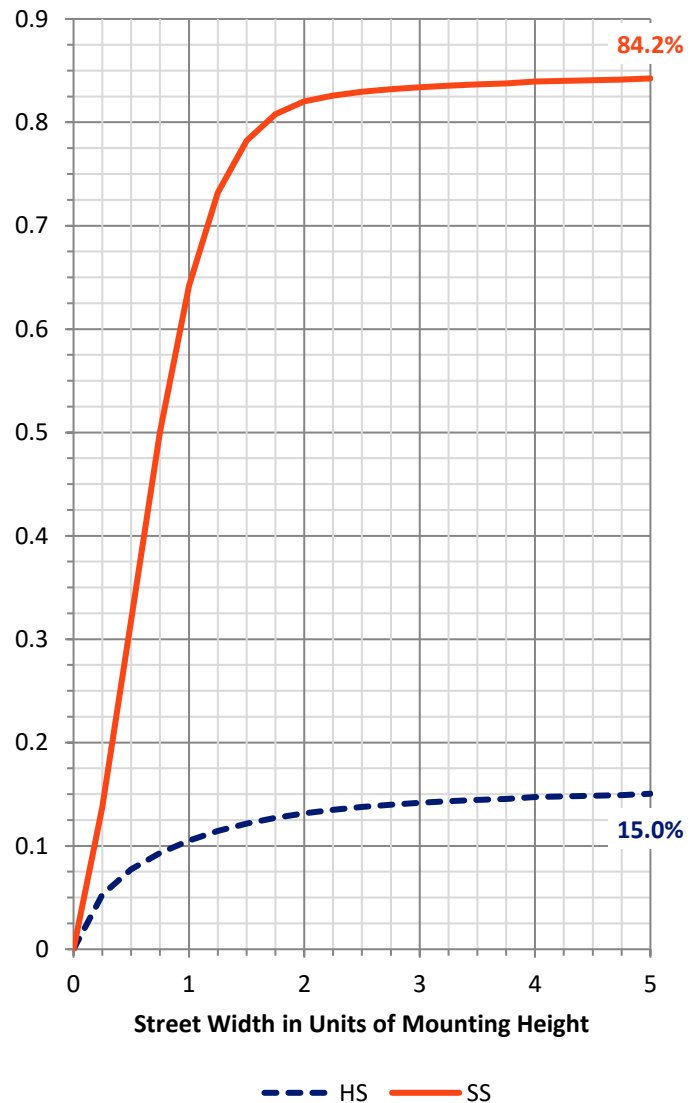
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1142.2	0.0	1142.2
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	6266.0	0.0	6266.0
	% Fixture	84.6	0.0	84.6
Total	Lumens	7408.2	0.0	7408.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	1.0
10°-20°	290.8	3.9
20°-30°	596.5	8.1
30°-40°	1003.7	13.5
40°-50°	1386.8	18.7
50°-60°	1731.1	23.4
60°-70°	1557.8	21.0
70°-80°	653.0	8.8
80°-90°	114.1	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°	7408.2	100.0
0°-180°	7408.2	100.0

Coefficient of Utilization



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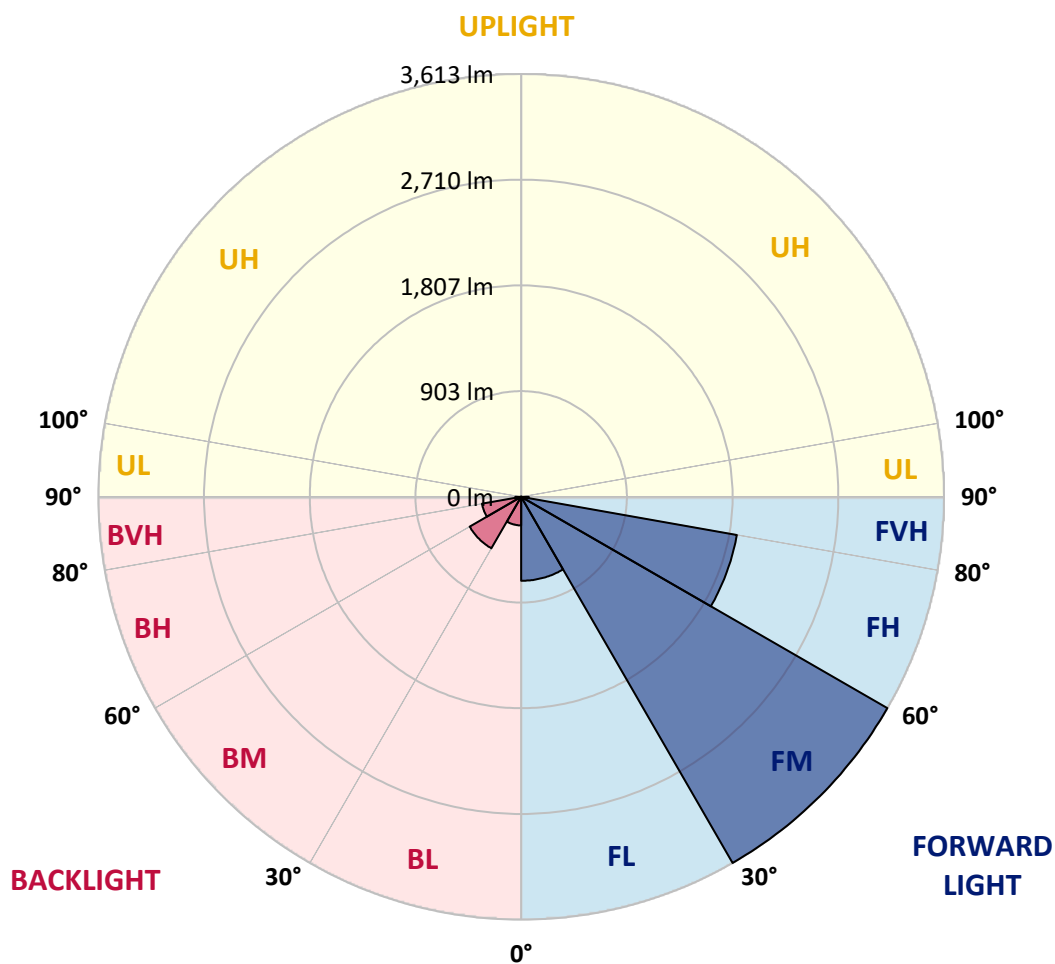
CATALOG NUMBER: GAP-AF-02-LED-U-T2R-7027-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	717.5	9.7			
FM	(30°-60°)	3613.2	48.8			
FH	(60°-80°)	1871.3	25.3			G2/5000
FVH	(80°-90°)	64.1	0.9			G1/100
BL	(0°-30°)	244.3	3.3	B1/500		
BM	(30°-60°)	508.4	6.9	B1/1000		
BH	(60°-80°)	339.6	4.6	B1/500		G1/500
BVH	(80°-90°)	50.0	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°	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0
2.5°	764.4	756.1	758.1	744.1	726.9	704.5	679.6	679.2	679.6	677.1	668.0
5°	1060.0	1049.8	1045.9	1014.5	968.2	902.2	830.8	822.9	819.9	811.8	793.2
7.5°	1275.7	1270.1	1264.0	1240.2	1198.2	1124.5	1028.5	1012.0	996.2	992.4	971.2
10°	1414.9	1413.5	1400.8	1394.4	1368.2	1304.3	1210.7	1194.9	1177.8	1171.8	1149.8
12.5°	1525.0	1524.7	1518.7	1520.4	1497.7	1451.3	1370.6	1356.4	1343.7	1325.4	1309.6
15°	1601.0	1601.4	1610.1	1620.1	1616.5	1585.2	1509.5	1503.3	1492.4	1479.7	1461.2
17.5°	1663.5	1665.2	1674.4	1692.1	1711.5	1709.0	1649.1	1643.8	1634.3	1617.2	1607.3
20°	1804.4	1811.2	1793.6	1793.6	1795.6	1805.1	1776.4	1772.1	1758.8	1749.7	1742.1
22.5°	2042.6	2050.2	2010.5	1970.3	1930.6	1901.9	1873.1	1878.4	1869.4	1862.9	1858.5
25°	2351.9	2357.7	2293.6	2225.6	2145.0	2039.7	1968.5	1965.4	1960.6	1956.6	1954.5
27.5°	2642.9	2645.2	2584.7	2485.0	2391.4	2240.3	2065.4	2061.4	2055.5	2048.1	2041.8
30°	2891.7	2891.0	2828.7	2733.6	2633.3	2466.0	2212.3	2200.3	2182.8	2162.8	2147.4
32.5°	3107.4	3106.3	3038.0	2939.4	2834.3	2689.9	2413.4	2389.0	2361.6	2322.7	2299.2
35°	3277.1	3276.5	3211.9	3109.2	2988.5	2900.5	2644.3	2614.1	2579.4	2527.1	2491.0
37.5°	3341.3	3341.3	3305.3	3235.1	3128.4	3068.2	2900.5	2864.1	2826.8	2767.7	2727.0
40°	3303.7	3304.4	3312.2	3299.2	3247.4	3201.0	3139.7	3117.9	3086.0	3032.8	2990.3
42.5°	3177.9	3181.7	3233.0	3295.7	3321.7	3314.2	3351.8	3342.1	3319.5	3278.5	3244.9
45°	3018.3	3030.3	3086.3	3205.0	3342.4	3412.1	3529.6	3530.7	3526.4	3504.4	3478.3
47.5°	2799.2	2816.0	2890.0	3050.3	3293.9	3507.2	3710.2	3719.6	3728.4	3714.0	3702.2
50°	2508.2	2528.2	2639.0	2851.5	3195.5	3605.6	4051.4	4094.1	4134.1	4129.1	4137.2
52.5°	2196.4	2219.9	2355.6	2592.2	3026.1	3628.6	4269.5	4339.3	4409.1	4466.3	4526.9
55°	1915.2	1902.6	2038.3	2287.7	2747.6	3525.8	4465.5	4549.6	4627.4	4697.5	4769.8
57.5°	1534.0	1554.7	1690.8	1937.4	2379.2	3235.8	4600.5	4723.6	4835.3	4951.5	5053.9
60°	1121.4	1142.0	1289.6	1540.1	1979.1	2796.1	4497.4	4683.9	4863.2	5040.8	5179.7
62.5°	677.1	692.6	822.6	1061.1	1526.0	2274.7	4038.1	4282.8	4546.5	4759.0	4971.8
65°	421.5	430.3	478.3	609.4	980.1	1698.2	3299.2	3566.1	3850.0	4119.7	4341.0
67.5°	344.9	348.3	356.9	385.1	538.3	1107.3	2455.5	2692.0	2948.2	3209.1	3455.3
70°	310.4	308.2	308.2	309.9	344.9	595.3	1607.6	1761.7	1975.3	2202.0	2427.2
72.5°	280.2	278.0	274.3	269.0	281.6	363.3	831.0	947.2	1101.1	1302.6	1518.2
75°	251.7	249.0	244.3	237.7	246.6	274.3	399.0	447.7	522.9	630.2	750.4
77.5°	222.3	218.7	214.5	209.7	221.0	213.2	233.9	251.4	280.2	314.5	359.9
80°	189.1	185.8	184.4	181.9	195.3	162.4	165.2	176.0	192.9	211.5	232.5
82.5°	148.0	148.0	153.6	154.7	169.4	116.8	123.4	132.9	141.7	151.5	161.2
85°	97.5	98.2	117.0	124.4	133.6	78.5	92.5	95.7	102.8	108.3	112.6
87.5°	30.5	33.0	71.5	79.2	76.7	44.6	56.9	58.2	63.2	67.0	70.4
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0
2.5°	668.0	663.8	660.0	659.5	656.8	652.9	654.3	648.3	648.7	645.5	642.0
5°	785.5	782.7	768.6	764.7	754.2	747.6	746.5	732.5	730.7	722.6	714.0
7.5°	954.4	945.3	925.8	916.2	898.3	885.0	878.7	860.1	851.1	829.9	820.5
10°	1131.5	1119.9	1095.8	1082.5	1065.3	1043.9	1032.3	1005.4	994.9	975.5	952.4
12.5°	1295.6	1284.0	1259.2	1249.1	1226.1	1203.4	1190.9	1160.3	1146.5	1115.8	1097.5
15°	1447.4	1435.9	1414.1	1403.6	1380.9	1362.3	1345.4	1315.3	1299.2	1270.5	1246.6
17.5°	1594.8	1582.5	1563.5	1554.1	1532.0	1513.0	1494.8	1466.5	1450.0	1421.2	1399.7
20°	1731.6	1722.4	1708.7	1696.1	1674.0	1656.8	1635.1	1610.5	1586.6	1565.7	1545.4
22.5°	1850.7	1847.3	1832.5	1826.9	1807.8	1793.1	1774.2	1750.1	1732.9	1706.2	1687.2
25°	1953.5	1952.3	1945.4	1943.7	1930.3	1916.3	1912.1	1892.1	1876.3	1852.8	1833.3
27.5°	2041.8	2042.8	2041.0	2046.0	2042.6	2036.2	2036.5	2029.9	2020.7	2001.2	1983.9
30°	2140.0	2134.5	2137.5	2144.6	2146.7	2147.4	2158.9	2162.8	2162.1	2149.1	2140.8
32.5°	2278.8	2265.5	2253.3	2252.2	2259.1	2262.0	2281.7	2291.8	2300.6	2303.8	2305.1
35°	2456.0	2429.2	2403.7	2390.0	2378.2	2381.2	2395.3	2411.8	2431.1	2444.4	2460.2
37.5°	2678.9	2646.3	2601.1	2568.9	2560.8	2543.2	2552.4	2565.3	2584.2	2604.9	2632.4
40°	2949.2	2899.9	2849.1	2806.2	2783.0	2750.8	2750.5	2748.1	2759.7	2778.8	2817.4
42.5°	3209.5	3165.6	3111.5	3066.8	3036.6	2993.4	2984.7	2961.9	2967.2	2984.0	3021.4
45°	3453.2	3417.1	3384.1	3332.3	3306.7	3259.9	3245.2	3218.3	3203.1	3210.9	3248.5
47.5°	3689.2	3666.1	3631.7	3598.0	3578.4	3536.5	3517.8	3498.4	3479.1	3478.3	3517.8
50°	4149.2	4137.0	4096.2	4061.1	4070.7	4019.5	4022.6	3970.7	3994.3	3997.0	4079.5
52.5°	4581.5	4624.4	4654.5	4691.3	4715.2	4719.8	4735.4	4759.0	4787.3	4843.5	4919.8
55°	4829.1	4882.7	4914.0	4942.0	4988.3	4998.1	5024.4	5055.7	5080.5	5143.6	5208.6
57.5°	5123.4	5222.8	5271.3	5315.8	5378.2	5402.0	5445.9	5479.9	5512.2	5586.9	5665.4
60°	5304.6	5425.9	5524.4	5595.0	5673.1	5729.2	5795.4	5848.8	5924.5	6014.0	6131.0
62.5°	5160.5	5338.5	5469.4	5590.3	5696.6	5803.9	5898.9	5998.5	6113.5	6248.9	6430.4
65°	4586.4	4767.8	4991.8	5117.4	5257.9	5423.4	5568.0	5729.2	5886.0	6083.1	6351.6
67.5°	3692.4	3903.0	4154.8	4281.4	4443.0	4627.8	4789.9	4986.9	5169.9	5408.8	5740.8
70°	2661.4	2933.9	3145.7	3277.8	3466.5	3656.9	3813.2	4042.6	4194.0	4438.9	4782.0
72.5°	1685.2	1900.2	2159.6	2326.3	2493.8	2686.7	2846.5	3044.4	3185.6	3408.6	3719.6
75°	906.1	1064.5	1292.5	1450.7	1630.2	1795.0	1982.2	2114.7	2219.3	2395.6	2648.1
77.5°	424.5	521.0	636.4	758.1	879.8	1006.7	1130.2	1237.4	1282.3	1383.3	1532.2
80°	257.8	289.0	322.6	360.1	411.0	451.9	506.4	545.6	548.4	580.3	625.8
82.5°	172.1	183.8	193.9	203.3	216.3	226.6	238.1	251.7	257.4	264.7	279.5
85°	117.5	123.1	125.1	131.2	129.7	133.3	137.8	142.3	144.7	144.4	151.2
87.5°	72.3	75.1	76.4	77.9	76.7	75.4	77.6	79.9	80.7	78.5	79.2
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0	602.0
2.5°	642.7	639.6	636.4	634.4	633.7	615.0	607.0	601.8	590.5	581.4	573.9
5°	709.0	702.4	697.1	690.7	687.3	640.3	623.2	611.1	591.5	579.9	569.4
7.5°	815.7	797.1	786.1	773.9	763.4	678.5	650.2	631.5	604.2	588.7	576.8
10°	936.6	917.3	900.1	881.1	864.7	729.3	687.9	659.3	623.2	603.1	587.3
12.5°	1071.6	1052.6	1031.0	1006.7	985.7	793.8	736.4	695.4	645.9	619.2	597.2
15°	1231.0	1197.8	1171.5	1143.5	1118.8	870.9	792.8	736.0	670.0	633.9	604.5
17.5°	1379.4	1344.4	1308.7	1284.0	1255.7	957.7	849.5	777.5	690.1	643.5	605.8
20°	1524.2	1486.1	1455.2	1422.2	1392.5	1047.3	910.3	813.9	703.1	643.7	597.2
22.5°	1652.0	1628.1	1593.8	1557.9	1527.7	1137.2	967.0	844.6	708.0	635.7	581.7
25°	1797.1	1771.7	1729.7	1699.7	1665.9	1228.6	1022.8	868.5	705.2	620.6	557.8
27.5°	1952.0	1924.0	1881.0	1849.3	1808.6	1323.7	1074.1	885.6	694.6	596.0	526.0
30°	2113.7	2088.1	2045.7	2013.8	1972.8	1424.4	1131.1	897.2	673.5	562.1	488.8
32.5°	2287.3	2265.9	2223.8	2190.4	2146.7	1533.3	1184.4	900.8	641.7	521.7	449.5
35°	2452.1	2437.3	2401.9	2370.7	2325.2	1636.4	1241.0	899.1	603.8	477.5	413.8
37.5°	2637.6	2628.8	2611.3	2571.7	2516.0	1776.4	1308.7	891.7	557.5	433.7	386.5
40°	2835.3	2835.9	2817.1	2790.0	2738.3	1946.1	1389.3	877.4	507.1	395.2	361.5
42.5°	3044.6	3055.6	3046.4	3027.1	2977.3	2117.1	1485.6	859.8	458.0	357.6	337.0
45°	3284.6	3297.9	3311.8	3283.5	3235.1	2343.0	1612.5	837.0	405.0	326.4	320.2
47.5°	3561.2	3582.3	3594.8	3595.1	3546.8	2622.8	1818.8	823.3	358.1	305.5	312.2
50°	4145.0	4151.6	4181.5	4233.4	4196.3	3270.5	2178.8	814.9	326.2	292.5	306.1
52.5°	4986.2	5059.4	5111.0	5107.6	5057.0	3681.9	2377.4	771.5	307.2	287.5	303.3
55°	5328.7	5420.4	5515.7	5540.9	5501.6	4032.9	2565.0	727.9	298.1	291.1	304.3
57.5°	5785.4	5939.7	6070.3	6125.5	6068.6	4482.0	2811.9	705.2	295.3	300.6	311.1
60°	6318.7	6509.4	6681.2	6780.0	6780.0	4998.1	3067.8	695.6	291.4	314.5	322.2
62.5°	6661.2	6941.5	7200.9	7345.7	7341.5	5357.5	3181.3	663.4	282.6	324.4	337.7
65°	6662.5	6995.7	7326.3	7489.1	7497.6	5313.4	2993.8	586.0	266.4	325.7	353.2
67.5°	6107.1	6462.3	6847.8	7029.7	7071.8	4891.2	2591.6	481.9	240.1	311.7	358.8
70°	5158.0	5504.9	5898.2	6077.0	6151.8	4169.6	2087.4	371.3	206.5	280.9	347.1
72.5°	4063.7	4403.9	4677.7	4808.4	4866.6	3187.0	1520.0	280.5	169.4	236.8	315.9
75°	2877.0	3132.3	3277.8	3306.9	3316.1	1921.1	923.5	208.6	139.5	184.2	266.8
77.5°	1623.9	1733.2	1721.3	1734.3	1626.3	741.6	402.3	149.4	115.1	139.9	206.9
80°	633.9	653.5	614.0	601.8	551.9	276.0	177.4	104.2	91.8	105.9	144.7
82.5°	279.5	288.5	280.2	282.2	270.0	142.3	106.3	75.4	70.2	77.6	96.1
85°	153.9	156.8	156.0	160.5	153.9	56.9	50.5	46.4	49.0	52.6	61.8
87.5°	75.1	75.7	73.3	77.2	74.6	28.7	25.0	26.3	28.7	29.5	29.5
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):

	135°	145°	155°	165°	175°	180°
0°	602.0	602.0	602.0	602.0	602.0	602.0
2.5°	568.7	565.9	566.3	565.7	564.1	564.1
5°	563.9	561.0	561.0	560.4	558.6	558.9
7.5°	568.7	564.1	562.3	560.0	557.5	557.5
10°	574.3	566.3	561.4	557.2	554.1	554.1
12.5°	578.6	565.9	557.8	552.3	549.1	549.1
15°	579.9	563.4	552.3	545.6	542.8	542.4
17.5°	575.5	554.1	540.3	532.6	529.1	528.1
20°	561.4	536.8	520.4	511.6	506.6	504.9
22.5°	540.3	512.4	493.0	483.8	477.5	476.6
25°	510.9	480.8	461.8	453.0	449.5	448.4
27.5°	476.6	448.4	432.4	426.8	423.6	423.2
30°	443.9	420.0	408.2	404.0	400.0	399.3
32.5°	413.4	398.3	393.7	387.8	378.6	377.6
35°	391.8	390.3	387.1	373.8	362.6	359.4
37.5°	378.4	391.3	375.2	348.9	340.8	340.1
40°	370.6	380.4	352.8	343.6	344.3	343.6
42.5°	353.2	363.3	353.5	349.3	352.0	352.8
45°	335.5	346.7	358.8	355.9	362.6	362.6
47.5°	325.7	342.6	358.3	358.3	368.1	371.7
50°	314.5	339.1	352.8	357.6	365.4	362.6
52.5°	313.8	333.1	344.7	353.5	356.9	353.8
55°	314.9	328.2	336.7	346.4	350.7	351.0
57.5°	316.4	325.4	331.0	335.5	348.3	348.3
60°	319.7	322.9	326.2	328.6	344.9	345.4
62.5°	325.4	320.4	319.7	322.2	343.3	341.9
65°	334.2	317.0	311.7	314.1	341.5	337.4
67.5°	346.0	311.7	301.6	303.3	340.1	331.0
70°	356.9	303.3	289.0	287.2	326.9	310.6
72.5°	358.1	293.4	271.4	266.2	284.0	268.7
75°	340.5	286.7	252.2	236.8	234.5	232.5
77.5°	306.9	283.0	229.6	205.5	201.3	202.7
80°	256.6	268.7	202.7	173.9	196.6	194.3
82.5°	191.8	237.1	172.1	153.9	153.6	135.7
85°	106.5	184.8	140.2	115.3	80.3	77.9
87.5°	29.9	102.8	98.2	65.2	44.6	46.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)