

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: P200024

Luminaire Tested: **GAP-AF-02-LED-U-T2R-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200024
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-7030
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12516.7 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 113
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



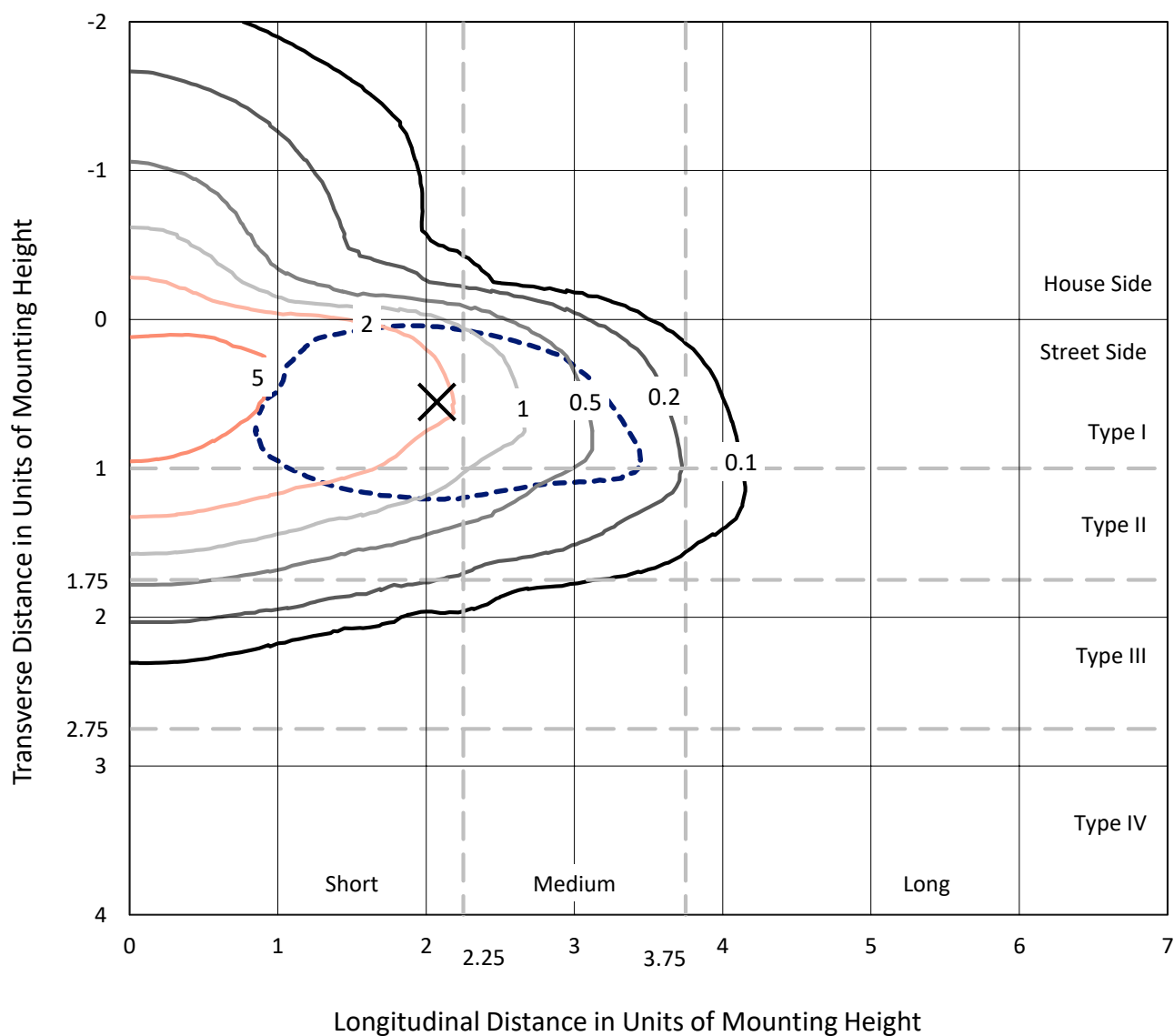
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

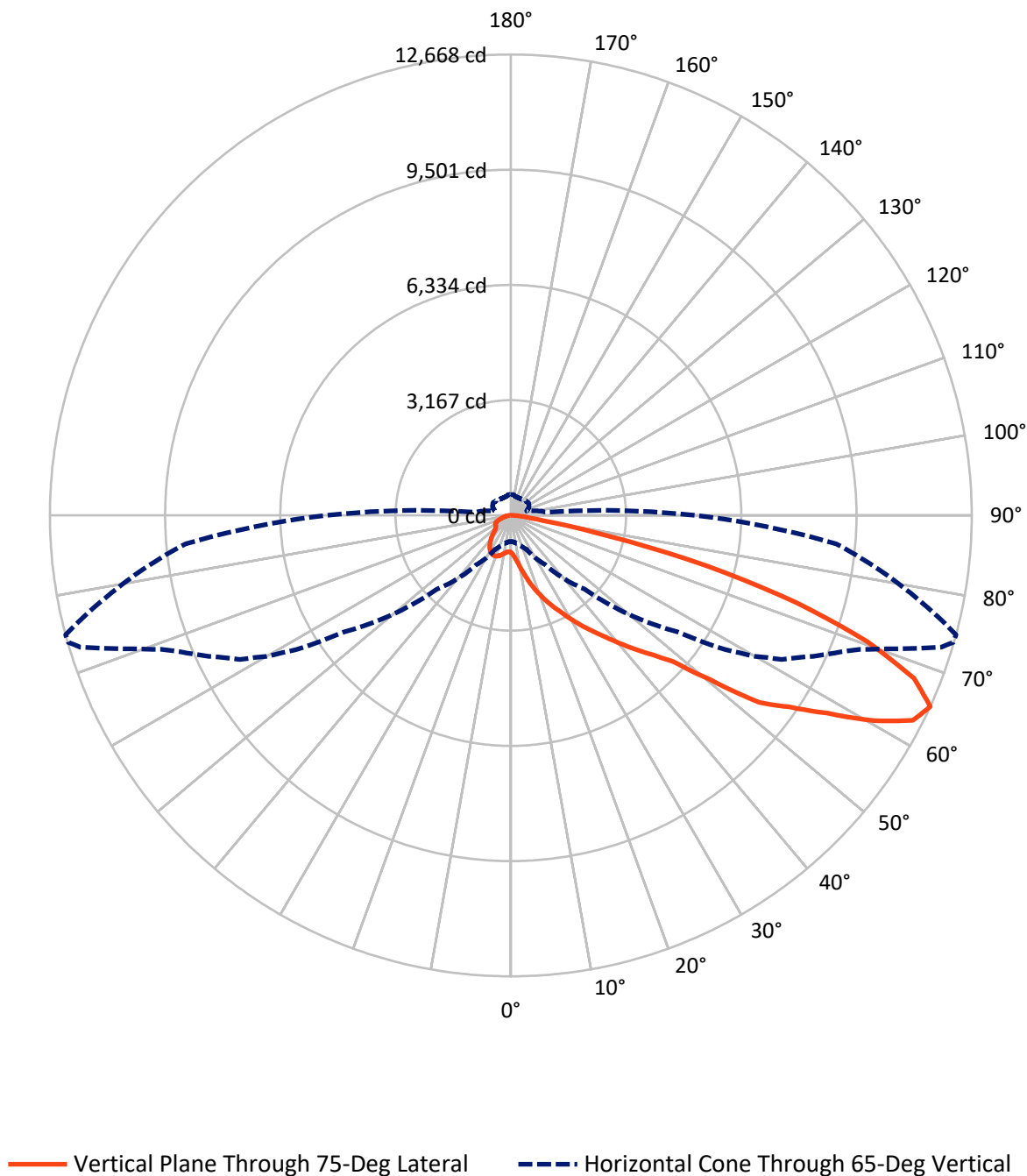


Based on 20 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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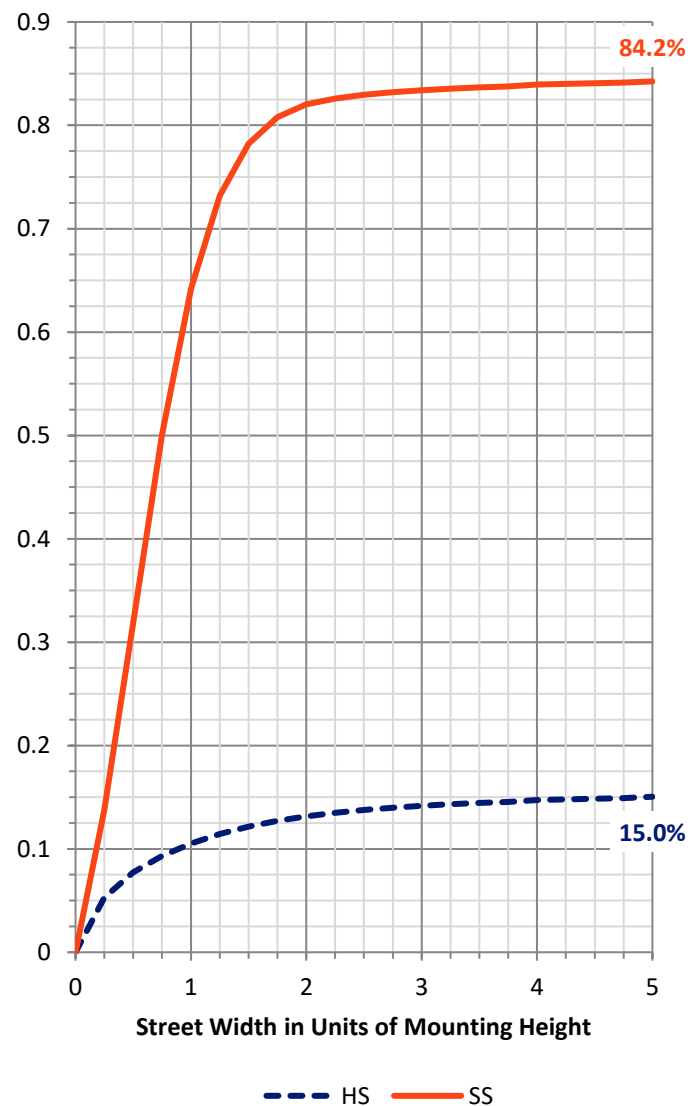
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1929.8	0.0	1929.8
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	10587.0	0.0	10587.0
	% Fixture	84.6	0.0	84.6
Total	Lumens	12516.7	0.0	12516.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.7	1.0
10°-20°	491.3	3.9
20°-30°	1007.9	8.1
30°-40°	1695.8	13.5
40°-50°	2343.1	18.7
50°-60°	2924.9	23.4
60°-70°	2632.0	21.0
70°-80°	1103.3	8.8
80°-90°	192.7	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°	12516.7	100.0
0°-180°	12516.7	100.0

Coefficient of Utilization



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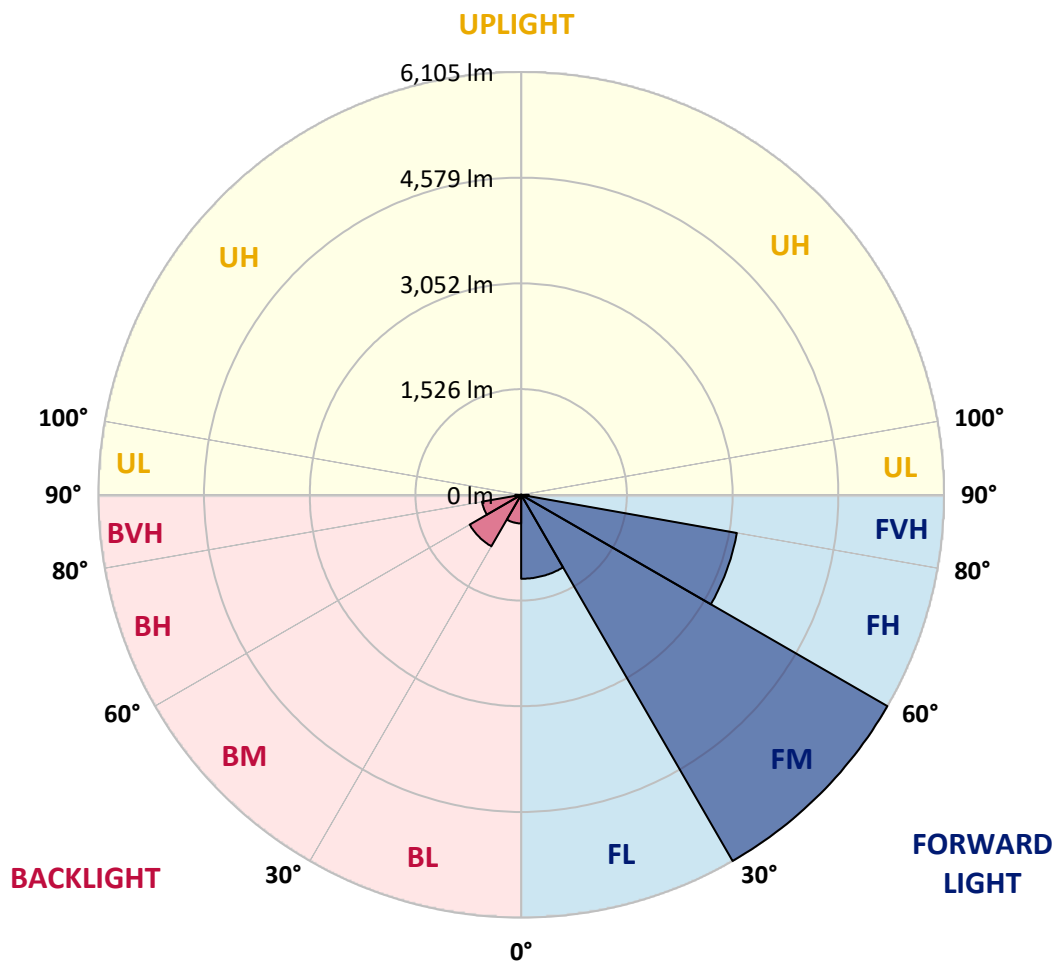
CATALOG NUMBER: GAP-AF-02-LED-U-T2R-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1212.2	9.7			
FM	(30°-60°)	6104.7	48.8			
FH	(60°-80°)	3161.7	25.3			G2/5000
FVH	(80°-90°)	108.3	0.9			G2/225
BL	(0°-30°)	412.7	3.3	B1/500		
BM	(30°-60°)	859.0	6.9	B1/1000		
BH	(60°-80°)	573.7	4.6	B2/1000		G2/1000
BVH	(80°-90°)	84.4	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1017.2	1017.2	1017.2	1017.2	1017.2	1017.2	1017.2	1017.2	1017.2	1017.2	1017.2
2.5°	1291.6	1277.4	1280.8	1257.1	1228.2	1190.3	1148.2	1147.5	1148.2	1144.1	1128.6
5°	1791.0	1773.9	1767.3	1714.0	1635.7	1524.3	1403.6	1390.5	1385.1	1371.5	1340.1
7.5°	2155.3	2145.9	2135.8	2095.5	2024.3	1900.0	1737.7	1709.8	1683.1	1676.6	1641.1
10°	2390.5	2388.2	2366.8	2356.1	2311.7	2203.9	2045.7	2019.0	1990.0	1980.0	1942.6
12.5°	2576.6	2575.9	2565.9	2568.8	2530.3	2452.1	2315.9	2291.6	2270.2	2239.5	2212.8
15°	2705.0	2705.7	2720.4	2737.1	2731.2	2678.4	2550.4	2539.8	2521.4	2500.1	2468.7
17.5°	2810.5	2813.5	2828.9	2859.1	2891.8	2887.6	2786.2	2777.4	2761.4	2732.3	2715.7
20°	3048.7	3060.0	3030.3	3030.3	3033.9	3049.9	3001.4	2994.2	2971.8	2956.3	2943.2
22.5°	3451.0	3464.1	3397.1	3328.9	3262.1	3213.5	3164.8	3173.8	3158.3	3147.6	3140.0
25°	3973.5	3983.6	3875.2	3760.2	3624.0	3446.2	3326.0	3320.6	3312.3	3305.8	3302.3
27.5°	4465.2	4469.4	4366.9	4198.7	4040.4	3785.1	3489.5	3482.9	3473.0	3460.5	3449.8
30°	4885.8	4884.7	4779.2	4618.7	4449.2	4166.6	3737.8	3717.5	3687.9	3654.1	3628.2
32.5°	5250.2	5248.5	5132.9	4966.5	4788.8	4544.6	4077.8	4036.4	3990.1	3924.4	3884.6
35°	5536.9	5535.8	5426.8	5253.1	5049.4	4900.8	4467.6	4416.7	4358.1	4269.8	4208.6
37.5°	5645.4	5645.4	5584.3	5465.9	5285.8	5184.0	4900.8	4839.1	4776.3	4676.2	4607.5
40°	5581.9	5583.1	5596.3	5574.3	5486.6	5408.5	5304.7	5268.1	5214.1	5124.0	5052.3
42.5°	5369.3	5375.8	5462.3	5568.4	5612.2	5599.7	5663.1	5646.6	5608.6	5539.3	5482.5
45°	5099.7	5119.9	5214.7	5414.9	5647.2	5765.1	5963.5	5965.3	5958.2	5920.9	5877.0
47.5°	4729.5	4757.9	4882.9	5153.6	5565.4	5925.5	6268.6	6284.6	6299.5	6275.2	6255.0
50°	4237.7	4271.5	4458.8	4817.8	5398.9	6092.1	6845.1	6917.3	6985.0	6976.6	6990.2
52.5°	3711.1	3750.8	3980.0	4379.9	5112.8	6130.6	7213.7	7331.6	7449.4	7546.0	7648.4
55°	3235.9	3214.6	3443.9	3865.0	4642.4	5957.1	7544.8	7686.9	7818.5	7936.9	8059.0
57.5°	2591.9	2626.9	2856.8	3273.3	4019.7	5467.2	7772.8	7980.9	8169.8	8365.9	8538.8
60°	1894.7	1929.6	2178.9	2602.0	3343.8	4724.2	7598.7	7913.8	8216.7	8517.0	8751.5
62.5°	1144.1	1170.0	1389.9	1792.7	2578.3	3843.2	6822.5	7236.1	7681.6	8040.6	8400.3
65°	712.2	726.9	808.1	1029.7	1655.9	2869.1	5574.3	6025.1	6505.1	6960.6	7334.5
67.5°	583.0	588.3	603.1	650.5	909.4	1870.9	4148.9	4548.1	4981.2	5422.0	5837.9
70°	524.3	520.7	520.7	523.7	583.0	1006.0	2716.4	2976.4	3337.3	3720.5	4100.9
72.5°	473.3	469.9	463.3	454.4	475.8	613.8	1404.1	1600.2	1860.2	2200.9	2565.3
75°	425.3	420.6	412.9	401.6	416.5	463.3	674.2	756.5	883.4	1064.6	1267.9
77.5°	375.7	369.8	362.5	354.3	373.2	360.2	395.2	424.8	473.3	531.4	607.8
80°	319.4	314.0	311.6	307.4	330.0	274.3	279.0	297.4	325.8	357.3	392.8
82.5°	249.9	249.9	259.5	261.2	286.2	197.3	208.5	224.5	239.4	255.8	272.5
85°	164.7	165.8	197.9	210.4	225.7	132.8	156.5	161.7	173.6	183.1	190.2
87.5°	51.6	55.7	120.8	133.9	129.7	75.3	95.9	98.4	106.6	113.2	119.1
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°	1017.2	1017.2	1017.2	1017.2	1017.2	1017.2	1017.2	1017.2	1017.2	1017.2	1017.2
2.5°	1128.6	1121.5	1115.0	1114.3	1109.6	1103.1	1105.4	1095.5	1096.0	1090.7	1084.7
5°	1327.1	1322.4	1298.6	1292.1	1274.3	1263.0	1261.3	1237.6	1234.6	1221.0	1206.2
7.5°	1612.6	1597.3	1564.0	1548.1	1517.8	1495.3	1484.7	1453.2	1437.9	1402.4	1386.3
10°	1911.8	1892.3	1851.4	1828.9	1799.8	1763.7	1744.1	1698.6	1680.7	1648.1	1609.1
12.5°	2189.1	2169.6	2127.5	2110.3	2071.8	2033.4	2011.9	1960.4	1937.2	1885.2	1854.3
15°	2445.7	2426.1	2389.3	2371.6	2333.0	2301.6	2273.2	2222.3	2195.0	2146.4	2106.1
17.5°	2694.5	2673.7	2641.7	2625.7	2588.4	2556.3	2525.6	2477.6	2449.7	2401.2	2365.0
20°	2925.5	2910.1	2886.9	2865.7	2828.2	2799.3	2762.5	2721.1	2680.7	2645.2	2610.9
22.5°	3126.9	3121.0	3096.1	3086.6	3054.7	3029.8	2997.7	2956.9	2927.8	2882.8	2850.8
25°	3300.5	3298.7	3286.8	3283.9	3261.4	3237.7	3230.6	3196.8	3170.1	3130.5	3097.3
27.5°	3449.8	3451.6	3448.7	3456.9	3451.0	3440.3	3440.9	3429.6	3414.3	3381.0	3352.1
30°	3615.7	3606.2	3611.6	3623.4	3627.0	3628.2	3647.6	3654.1	3653.0	3631.1	3616.9
32.5°	3850.3	3827.8	3807.0	3805.3	3817.1	3821.9	3855.0	3872.2	3887.0	3892.4	3894.8
35°	4149.4	4104.5	4061.1	4038.1	4017.9	4023.3	4047.0	4074.9	4107.4	4129.9	4156.5
37.5°	4526.3	4471.2	4394.7	4340.3	4326.5	4296.9	4312.4	4334.4	4366.3	4401.3	4447.5
40°	4983.0	4899.5	4813.6	4741.3	4702.2	4647.7	4647.2	4643.0	4662.5	4695.1	4760.3
42.5°	5422.6	5348.6	5257.3	5181.5	5130.6	5057.7	5042.9	5004.4	5013.3	5041.7	5105.0
45°	5834.3	5773.4	5717.6	5630.0	5586.8	5508.0	5483.0	5437.4	5411.9	5425.0	5488.4
47.5°	6233.1	6194.0	6135.9	6079.0	6045.9	5975.4	5943.3	5910.8	5878.2	5877.0	5943.3
50°	7010.4	6989.7	6920.9	6861.7	6877.7	6791.2	6796.5	6708.8	6748.5	6753.2	6892.5
52.5°	7740.9	7813.1	7864.1	7926.3	7966.5	7974.3	8000.9	8040.6	8088.6	8183.4	8312.6
55°	8159.2	8249.7	8302.5	8349.9	8428.0	8444.6	8489.1	8541.9	8584.0	8690.6	8800.2
57.5°	8656.2	8824.5	8906.2	8981.4	9086.9	9127.2	9201.3	9258.7	9313.1	9439.4	9572.1
60°	8962.4	9167.5	9333.9	9453.0	9585.1	9680.0	9792.0	9882.0	10009.9	10161.0	10358.9
62.5°	8719.0	9019.9	9240.9	9445.4	9624.8	9806.1	9966.6	10134.9	10329.3	10557.9	10864.8
65°	7749.1	8055.4	8434.0	8646.1	8883.7	9163.3	9407.4	9680.0	9944.8	10277.7	10731.6
67.5°	6238.3	6594.5	7019.9	7233.7	7506.8	7819.0	8092.8	8425.7	8734.9	9138.5	9699.5
70°	4496.7	4957.0	5314.8	5538.2	5856.9	6178.6	6442.8	6830.3	7086.2	7499.8	8079.7
72.5°	2847.3	3210.5	3648.8	3930.3	4213.5	4539.2	4809.5	5143.6	5382.3	5759.2	6284.6
75°	1530.8	1798.6	2183.8	2450.9	2754.3	3032.7	3349.2	3573.0	3749.6	4047.6	4474.1
77.5°	717.4	880.4	1075.3	1280.8	1486.5	1700.9	1909.5	2090.7	2166.6	2337.2	2589.0
80°	435.4	488.2	545.1	608.5	694.4	763.6	855.5	921.8	926.6	980.5	1057.5
82.5°	290.8	310.4	327.7	343.6	365.6	382.7	402.3	425.3	434.9	447.3	472.2
85°	198.5	207.9	211.5	221.6	219.2	225.1	232.8	240.5	244.6	244.0	255.3
87.5°	122.1	126.7	129.2	131.5	129.7	127.4	130.9	135.1	136.2	132.8	133.9
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°	1017.2	1017.2	1017.2	1017.2	1017.2	1017.2	1017.2	1017.2	1017.2	1017.2	1017.2
2.5°	1085.9	1080.6	1075.3	1071.8	1070.5	1039.2	1025.5	1016.6	997.6	982.2	969.7
5°	1197.9	1186.7	1177.9	1167.1	1161.2	1081.7	1052.8	1032.6	999.5	979.9	962.1
7.5°	1378.0	1346.6	1328.3	1307.5	1289.7	1146.3	1098.4	1067.0	1020.8	994.7	974.6
10°	1582.4	1549.9	1520.8	1488.7	1461.1	1232.3	1162.4	1113.8	1052.8	1019.0	992.3
12.5°	1810.5	1778.5	1741.8	1700.9	1665.3	1341.2	1244.1	1174.9	1091.3	1046.2	1008.9
15°	2080.1	2023.8	1979.3	1931.9	1890.5	1471.6	1339.5	1243.6	1132.2	1071.2	1021.3
17.5°	2330.7	2271.4	2211.0	2169.6	2121.5	1617.9	1435.4	1313.4	1165.9	1087.1	1023.8
20°	2575.3	2510.8	2458.7	2402.9	2352.6	1769.7	1538.0	1375.0	1187.8	1087.6	1008.9
22.5°	2791.0	2750.7	2692.7	2632.3	2581.2	1921.4	1634.0	1427.2	1196.2	1074.1	982.9
25°	3036.4	2993.6	2922.4	2871.6	2814.7	2075.9	1728.2	1467.5	1191.4	1048.7	942.6
27.5°	3298.1	3250.7	3178.0	3124.6	3055.9	2236.4	1814.7	1496.6	1173.7	1007.2	888.8
30°	3571.2	3528.0	3456.3	3402.5	3333.1	2406.6	1911.3	1516.1	1138.1	949.7	825.9
32.5°	3864.5	3828.3	3757.3	3700.9	3627.0	2590.7	2001.3	1522.0	1084.2	881.5	759.5
35°	4143.0	4118.1	4058.2	4005.6	3928.5	2765.0	2096.6	1519.0	1020.2	806.9	699.0
37.5°	4456.3	4441.5	4411.9	4345.0	4250.7	3001.4	2211.0	1506.5	942.1	732.8	652.9
40°	4790.5	4791.7	4759.7	4714.1	4626.4	3288.0	2347.2	1482.3	856.7	667.7	610.8
42.5°	5144.2	5162.5	5147.1	5114.5	5030.4	3577.1	2510.2	1452.7	773.8	604.3	569.4
45°	5549.4	5571.9	5595.6	5547.6	5465.9	3958.7	2724.6	1414.2	684.3	551.5	541.0
47.5°	6016.8	6052.4	6073.7	6074.3	5992.6	4431.4	3073.0	1391.1	604.9	516.0	527.2
50°	7003.3	7014.6	7064.9	7152.5	7089.8	5525.7	3681.5	1376.8	551.0	494.1	517.3
52.5°	8424.6	8548.3	8635.5	8629.6	8544.2	6220.6	4016.8	1303.4	519.0	485.7	512.4
55°	9003.4	9158.0	9319.2	9361.8	9295.4	6813.7	4333.8	1229.9	503.5	491.7	514.3
57.5°	9774.8	10035.4	10256.3	10349.4	10253.4	7572.6	4750.8	1191.4	498.9	507.7	525.5
60°	10675.8	10998.1	11288.4	11455.5	11455.5	8444.6	5183.3	1175.4	492.3	531.4	544.4
62.5°	11254.7	11728.0	12166.4	12411.1	12403.9	9051.9	5375.2	1120.9	477.5	548.1	570.6
65°	11257.0	11819.7	12378.5	12653.5	12667.6	8977.3	5058.2	990.0	450.2	550.3	596.5
67.5°	10318.6	10918.8	11569.8	11877.2	11948.4	8264.0	4378.8	814.0	405.8	526.6	606.1
70°	8714.8	9300.8	9965.5	10267.6	10393.9	7044.7	3526.8	627.3	349.0	474.5	586.5
72.5°	6865.9	7440.4	7903.2	8124.2	8222.6	5384.8	2568.2	473.9	286.2	399.9	533.8
75°	4861.0	5292.3	5538.2	5587.3	5602.7	3246.0	1560.4	352.5	235.8	311.1	450.8
77.5°	2743.6	2928.4	2908.3	2930.3	2747.8	1252.9	679.5	252.4	194.4	236.4	349.5
80°	1071.2	1104.3	1037.4	1016.6	932.5	466.2	299.8	175.9	155.2	178.9	244.6
82.5°	472.2	487.7	473.3	476.9	456.1	240.5	179.5	127.4	118.4	130.9	162.4
85°	260.0	264.9	263.7	271.3	260.0	95.9	85.3	78.2	82.9	88.8	104.3
87.5°	126.7	128.0	123.8	130.3	126.2	48.6	42.1	44.5	48.6	49.7	49.7
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°	1017.2	1017.2	1017.2	1017.2	1017.2	1017.2
2.5°	960.9	956.2	956.8	955.6	953.3	953.3
5°	952.6	948.0	948.0	946.7	943.8	944.3
7.5°	960.9	953.3	950.2	946.1	942.1	942.1
10°	970.4	956.8	948.5	941.4	936.1	936.1
12.5°	977.6	956.2	942.6	933.1	927.7	927.7
15°	979.9	952.0	933.1	921.8	917.1	916.4
17.5°	972.2	936.1	913.0	900.0	894.0	892.2
20°	948.5	907.1	879.2	864.4	856.0	853.1
22.5°	913.0	865.6	833.0	817.6	806.9	805.1
25°	863.1	812.3	780.2	765.5	759.5	757.7
27.5°	805.1	757.7	730.5	721.0	715.6	715.1
30°	750.1	709.7	689.7	682.6	676.0	674.7
32.5°	698.5	673.0	665.3	655.2	639.8	638.1
35°	661.8	659.4	654.0	631.5	612.6	607.3
37.5°	639.2	661.1	633.9	589.5	575.9	574.7
40°	626.2	642.8	596.0	580.6	581.8	580.6
42.5°	596.5	613.8	597.2	590.1	594.8	596.0
45°	566.9	585.9	606.1	601.4	612.6	612.6
47.5°	550.3	578.8	605.6	605.6	622.0	628.0
50°	531.4	572.8	596.0	604.3	617.4	612.6
52.5°	530.2	562.8	582.4	597.2	603.1	597.7
55°	532.0	554.5	568.7	585.3	592.4	593.1
57.5°	534.4	549.8	559.3	566.9	588.3	588.3
60°	540.3	545.6	551.0	555.1	583.0	583.6
62.5°	549.8	541.5	540.3	544.4	579.9	577.7
65°	564.7	535.6	526.6	530.8	577.0	569.9
67.5°	584.7	526.6	509.4	512.4	574.7	559.3
70°	603.1	512.4	488.2	485.2	552.2	524.9
72.5°	604.9	495.9	458.6	449.7	479.8	453.9
75°	575.2	484.6	426.0	399.9	396.4	392.8
77.5°	518.4	478.1	388.1	347.2	340.1	342.4
80°	433.6	453.9	342.4	293.8	332.3	328.3
82.5°	324.1	400.6	290.8	260.0	259.5	229.2
85°	180.1	312.3	237.0	194.9	135.7	131.5
87.5°	50.4	173.6	165.8	110.3	75.3	78.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)