

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: P200183

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200183
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
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 4000K, 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: 6775 lumens
Efficiency: N/A
Efficacy: 114.8 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

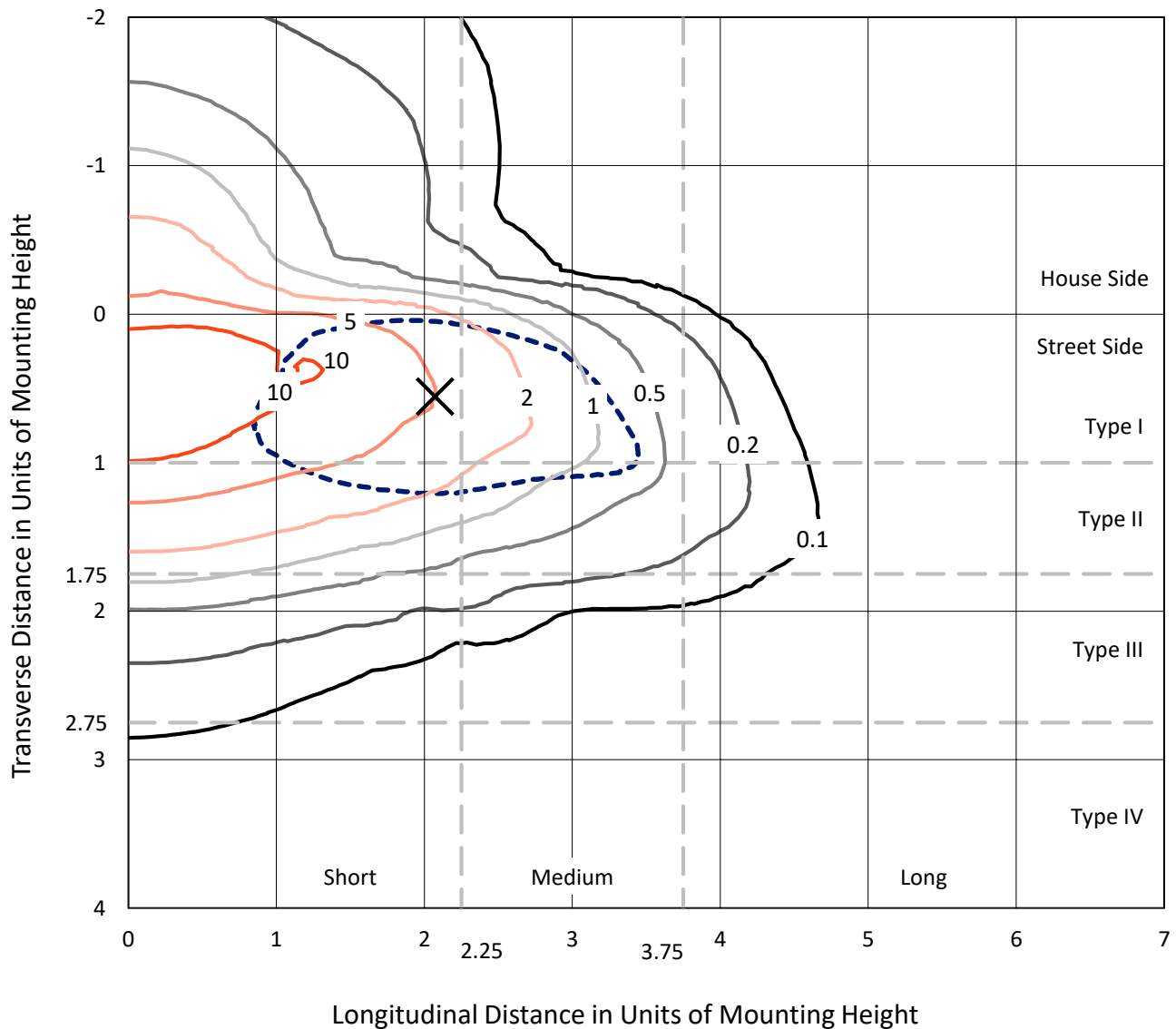


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

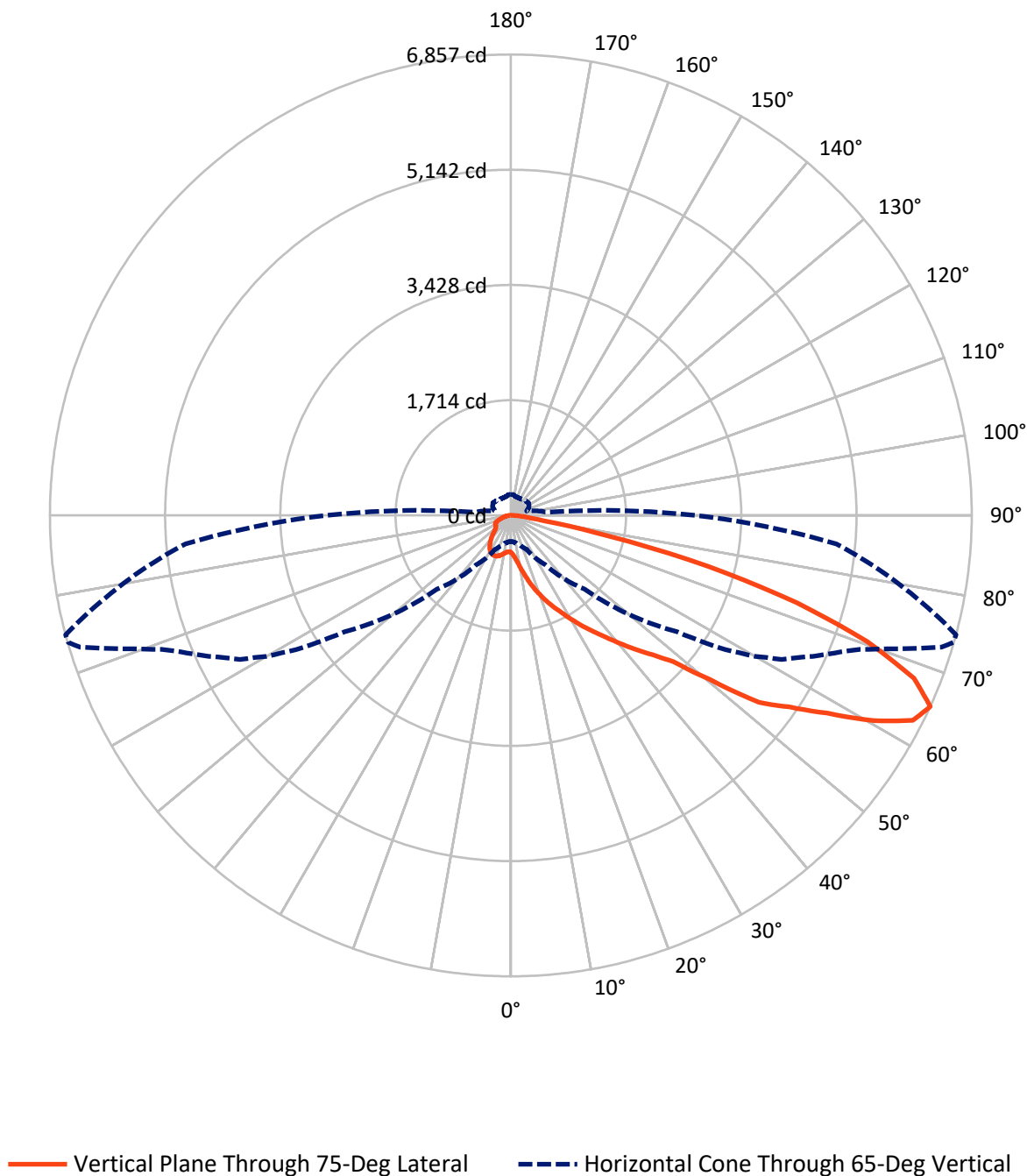


Based on 10 foot mounting height. Maximum calculated value = 17.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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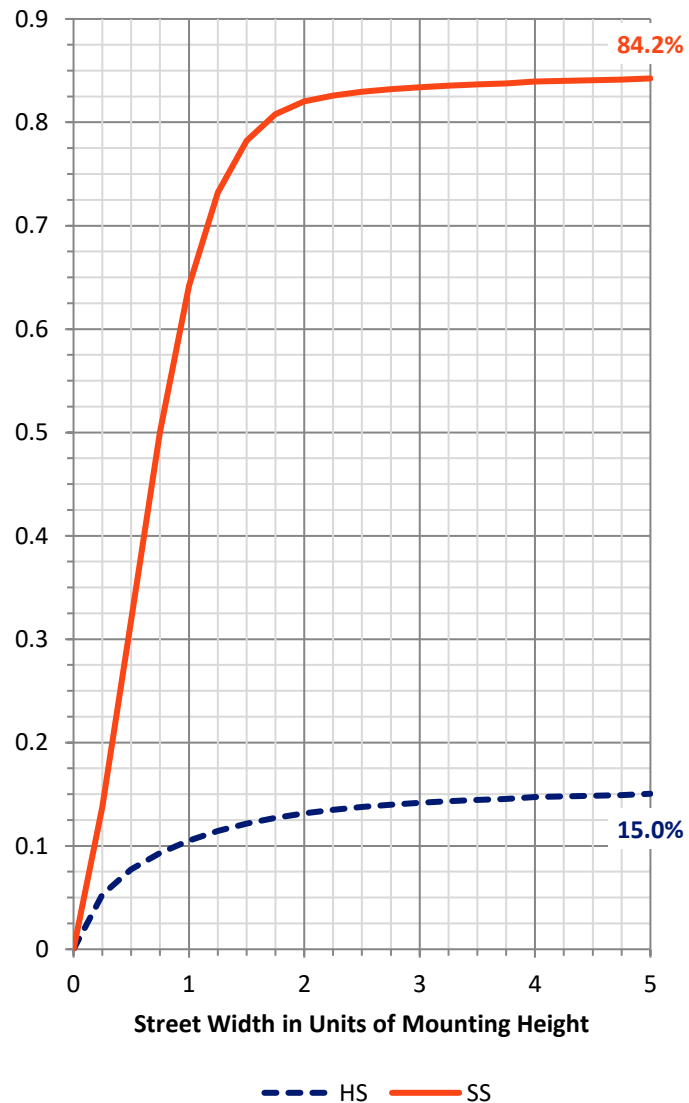
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1044.6	0.0	1044.6
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	5730.5	0.0	5730.5
	% Fixture	84.6	0.0	84.6
Total	Lumens	6775.0	0.0	6775.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	1.0
10°-20°	265.9	3.9
20°-30°	545.6	8.1
30°-40°	917.9	13.5
40°-50°	1268.3	18.7
50°-60°	1583.2	23.4
60°-70°	1424.7	21.0
70°-80°	597.2	8.8
80°-90°	104.3	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°	6775.0	100.0
0°-180°	6775.0	100.0

Coefficient of Utilization



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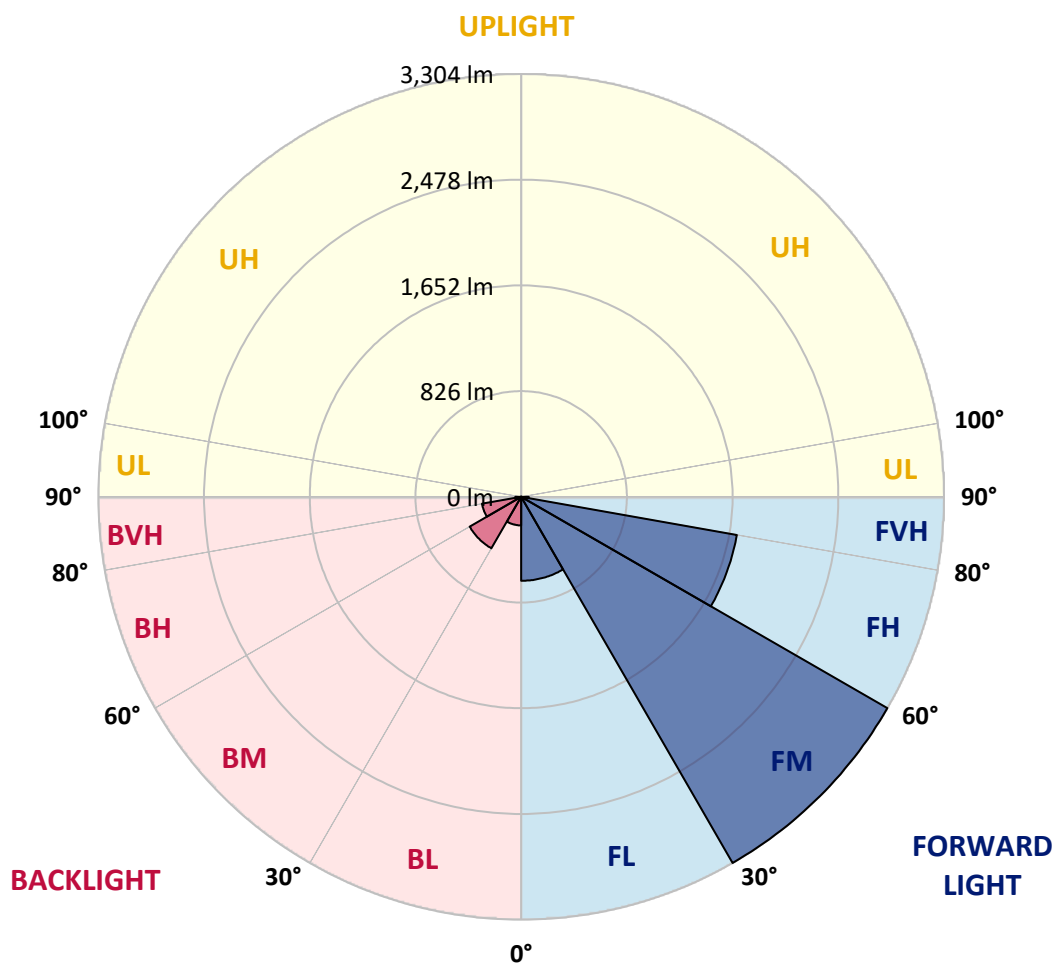
CATALOG NUMBER: GAP-AF-01-LED-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	656.1	9.7			
FM	(30°-60°)	3304.3	48.8			
FH	(60°-80°)	1711.3	25.3			G1/1800
FVH	(80°-90°)	58.6	0.9			G1/100
BL	(0°-30°)	223.4	3.3	B1/500		
BM	(30°-60°)	464.9	6.9	B1/1000		
BH	(60°-80°)	310.5	4.6	B1/500		G1/500
BVH	(80°-90°)	45.7	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°	550.6	550.6	550.6	550.6	550.6	550.6	550.6	550.6	550.6	550.6	550.6
2.5°	699.1	691.4	693.3	680.5	664.7	644.3	621.4	621.1	621.4	619.2	610.9
5°	969.5	960.1	956.6	927.7	885.4	825.1	759.6	752.6	749.7	742.4	725.4
7.5°	1166.6	1161.5	1156.0	1134.2	1095.8	1028.4	940.5	925.5	911.0	907.5	888.2
10°	1293.9	1292.6	1281.1	1275.3	1251.3	1192.9	1107.2	1092.8	1077.2	1071.7	1051.5
12.5°	1394.6	1394.3	1388.9	1390.4	1369.6	1327.3	1253.5	1240.3	1228.9	1212.2	1197.7
15°	1464.3	1464.6	1472.5	1481.5	1478.3	1449.7	1380.5	1374.7	1364.8	1353.3	1336.3
17.5°	1521.2	1522.9	1531.3	1547.6	1565.2	1563.0	1508.1	1503.3	1494.6	1479.0	1470.0
20°	1650.2	1656.3	1640.3	1640.3	1642.1	1650.8	1624.5	1620.7	1608.5	1600.2	1593.1
22.5°	1867.9	1875.0	1838.8	1801.8	1765.6	1739.3	1713.0	1717.8	1709.6	1703.7	1699.5
25°	2150.8	2156.2	2097.6	2035.4	1961.6	1865.4	1800.3	1797.4	1792.9	1789.3	1787.4
27.5°	2416.9	2419.2	2363.7	2272.6	2187.0	2048.8	1888.8	1885.2	1879.8	1873.0	1867.3
30°	2644.6	2643.9	2586.8	2500.0	2408.2	2255.3	2023.1	2012.2	1996.2	1977.9	1963.9
32.5°	2841.9	2840.8	2778.3	2688.2	2592.1	2459.9	2207.2	2184.7	2159.8	2124.2	2102.7
35°	2997.0	2996.4	2937.4	2843.4	2733.1	2652.6	2418.3	2390.6	2358.9	2311.2	2278.1
37.5°	3055.8	3055.8	3022.7	2958.6	2861.1	2806.0	2652.6	2619.3	2585.3	2531.1	2493.9
40°	3021.4	3022.0	3029.1	3017.2	2969.7	2927.5	2871.3	2851.5	2822.2	2773.5	2734.8
42.5°	2906.3	2909.8	2956.6	3014.0	3037.8	3031.0	3065.4	3056.4	3035.8	2998.3	2967.5
45°	2760.3	2771.3	2822.6	2931.0	3056.7	3120.5	3227.9	3228.8	3225.1	3204.8	3181.1
47.5°	2559.9	2575.4	2643.0	2789.6	3012.4	3207.4	3393.0	3401.7	3409.7	3396.6	3385.7
50°	2293.8	2312.1	2413.4	2607.7	2922.3	3297.5	3705.0	3744.2	3780.7	3776.2	3783.7
52.5°	2008.7	2030.1	2154.3	2370.8	2767.4	3318.4	3904.5	3968.3	4032.2	4084.4	4139.9
55°	1751.5	1739.9	1864.1	2092.0	2512.8	3224.3	4083.8	4160.8	4231.9	4296.1	4362.2
57.5°	1403.0	1421.9	1546.3	1771.8	2175.8	2959.2	4207.3	4319.8	4422.1	4528.3	4621.9
60°	1025.5	1044.4	1179.5	1408.4	1809.9	2557.1	4113.0	4283.6	4447.5	4610.0	4737.0
62.5°	619.2	633.3	752.3	970.4	1395.6	2080.2	3692.9	3916.7	4157.9	4352.2	4546.8
65°	385.4	393.4	437.4	557.3	896.3	1553.0	3017.2	3261.3	3521.0	3767.6	3970.0
67.5°	315.6	318.4	326.4	352.1	492.2	1012.7	2245.7	2461.8	2696.2	2934.8	3159.9
70°	283.8	281.8	281.8	283.5	315.6	544.5	1470.3	1611.0	1806.3	2013.9	2219.7
72.5°	256.2	254.3	250.7	245.9	257.5	332.3	760.0	866.1	1006.9	1191.3	1388.6
75°	230.3	227.7	223.5	217.4	225.5	250.7	364.9	409.5	478.1	576.2	686.2
77.5°	203.3	200.1	196.2	191.8	202.0	195.0	213.9	230.0	256.2	287.7	329.0
80°	172.9	169.9	168.7	166.4	178.6	148.4	151.0	161.0	176.4	193.3	212.6
82.5°	135.3	135.3	140.5	141.4	154.9	106.8	112.8	121.5	129.5	138.5	147.5
85°	89.1	89.8	107.1	113.9	122.1	71.8	84.7	87.6	93.9	99.1	102.9
87.5°	27.9	30.2	65.4	72.4	70.3	40.7	52.0	53.2	57.7	61.3	64.4
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°	550.6	550.6	550.6	550.6	550.6	550.6	550.6	550.6	550.6	550.6	550.6
2.5°	610.9	607.0	603.5	603.2	600.6	597.1	598.4	592.9	593.2	590.3	587.2
5°	718.3	715.8	702.9	699.4	689.8	683.6	682.7	669.9	668.3	660.9	652.8
7.5°	872.9	864.5	846.6	837.9	821.5	809.4	803.6	786.6	778.3	759.0	750.3
10°	1034.8	1024.3	1002.1	989.9	974.3	954.6	944.1	919.3	909.7	892.1	870.9
12.5°	1184.9	1174.3	1151.5	1142.2	1121.4	1100.6	1089.0	1061.1	1048.6	1020.4	1003.7
15°	1323.7	1313.2	1293.3	1283.7	1262.8	1245.9	1230.4	1202.9	1188.1	1161.8	1140.0
17.5°	1458.4	1447.2	1429.9	1421.2	1401.0	1383.7	1367.1	1341.1	1325.9	1299.7	1280.1
20°	1583.5	1575.1	1562.7	1551.1	1530.9	1515.2	1495.3	1472.8	1451.1	1431.8	1413.2
22.5°	1692.5	1689.3	1675.8	1670.7	1653.4	1639.9	1622.6	1600.5	1584.8	1560.4	1543.1
25°	1786.5	1785.6	1779.1	1777.5	1765.3	1752.5	1748.6	1730.3	1715.9	1694.4	1676.5
27.5°	1867.3	1868.2	1866.7	1871.2	1867.9	1862.2	1862.5	1856.3	1848.1	1830.1	1814.4
30°	1957.1	1952.0	1954.9	1961.2	1963.1	1963.9	1974.4	1977.9	1977.3	1965.4	1957.7
32.5°	2084.1	2071.9	2060.6	2059.7	2066.2	2068.7	2086.6	2095.9	2103.9	2106.9	2108.1
35°	2246.0	2221.6	2198.2	2185.7	2174.8	2177.7	2190.5	2205.6	2223.3	2235.5	2249.9
37.5°	2450.0	2420.1	2378.8	2349.3	2341.8	2325.9	2334.2	2346.0	2363.3	2382.2	2407.3
40°	2697.2	2652.0	2605.5	2566.4	2545.2	2515.7	2515.3	2513.1	2523.7	2541.3	2576.6
42.5°	2935.2	2895.1	2845.6	2804.6	2777.0	2737.6	2729.5	2708.8	2713.6	2728.9	2763.3
45°	3158.1	3125.0	3094.8	3047.4	3023.9	2981.3	2967.9	2943.1	2929.3	2936.4	2970.8
47.5°	3373.8	3352.6	3321.2	3290.4	3272.5	3234.4	3217.0	3199.4	3181.8	3181.1	3217.0
50°	3794.5	3783.3	3746.1	3714.0	3722.7	3675.9	3678.7	3631.3	3652.9	3655.4	3730.7
52.5°	4189.9	4229.1	4256.6	4290.4	4312.1	4316.2	4330.7	4352.2	4378.1	4429.5	4499.3
55°	4416.3	4465.4	4493.9	4519.6	4562.0	4570.9	4595.0	4623.5	4646.2	4703.9	4763.3
57.5°	4685.4	4776.5	4820.7	4861.5	4918.6	4940.3	4980.4	5011.5	5041.0	5109.3	5181.1
60°	4851.1	4962.1	5052.3	5116.7	5188.2	5239.6	5300.1	5348.8	5418.2	5499.9	5607.0
62.5°	4719.4	4882.2	5001.9	5112.5	5209.7	5307.8	5394.7	5485.8	5590.9	5714.7	5880.8
65°	4194.4	4360.2	4565.1	4679.9	4808.5	4959.9	5092.0	5239.6	5382.9	5563.1	5808.7
67.5°	3376.7	3569.4	3799.6	3915.4	4063.3	4232.3	4380.4	4560.6	4728.1	4946.4	5250.1
70°	2433.9	2683.1	2876.7	2997.7	3170.2	3344.3	3487.3	3697.0	3835.6	4059.4	4373.3
72.5°	1541.2	1737.7	1975.0	2127.3	2280.7	2457.0	2603.2	2784.1	2913.4	3117.2	3401.7
75°	828.6	973.5	1182.0	1326.7	1490.8	1641.5	1812.8	1934.0	2029.5	2190.9	2421.7
77.5°	388.3	476.5	582.1	693.3	804.6	920.7	1033.5	1131.7	1172.7	1265.1	1401.3
80°	235.7	264.2	295.0	329.3	375.8	413.4	463.1	499.0	501.6	530.7	572.4
82.5°	157.4	168.1	177.4	186.0	197.8	207.1	217.8	230.3	235.4	242.1	255.5
85°	107.4	112.5	114.5	119.9	118.7	121.8	126.0	130.2	132.5	132.2	138.2
87.5°	66.1	68.6	69.9	71.2	70.3	68.9	70.9	73.1	73.8	71.8	72.4
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°	550.6	550.6	550.6	550.6	550.6	550.6	550.6	550.6	550.6	550.6	550.6
2.5°	587.8	584.9	582.1	580.1	579.5	562.4	555.1	550.2	540.0	531.7	525.0
5°	648.4	642.3	637.5	631.8	628.5	585.5	569.9	558.9	540.9	530.4	520.8
7.5°	745.9	728.9	718.9	707.8	698.1	620.5	594.5	577.6	552.5	538.4	527.5
10°	856.5	838.9	823.2	805.9	790.7	667.0	629.1	602.8	569.9	551.6	537.2
12.5°	980.0	962.7	942.8	920.7	901.4	726.0	673.4	635.9	590.7	566.3	546.2
15°	1125.9	1095.4	1071.3	1045.8	1023.3	796.6	725.1	673.1	612.8	579.8	552.8
17.5°	1261.5	1229.5	1196.8	1174.3	1148.4	875.7	777.0	711.0	631.1	588.4	554.1
20°	1394.0	1359.0	1330.8	1300.7	1273.4	957.9	832.5	744.3	642.9	588.7	546.2
22.5°	1510.7	1488.9	1457.5	1424.8	1397.1	1039.9	884.4	772.5	647.4	581.3	532.0
25°	1643.5	1620.4	1581.9	1554.3	1523.5	1123.6	935.4	794.3	644.9	567.6	510.1
27.5°	1785.2	1759.6	1720.1	1691.2	1654.0	1210.6	982.2	810.1	635.3	545.1	481.0
30°	1933.1	1909.6	1870.8	1841.6	1804.1	1302.6	1034.5	820.6	616.0	514.0	447.0
32.5°	2091.7	2072.2	2033.7	2003.2	1963.1	1402.3	1083.2	823.8	586.9	477.2	411.1
35°	2242.5	2229.0	2196.6	2168.0	2126.4	1496.6	1134.9	822.2	552.2	436.8	378.4
37.5°	2412.1	2404.1	2388.1	2351.9	2300.8	1624.5	1196.8	815.5	509.8	396.7	353.4
40°	2593.0	2593.6	2576.3	2551.6	2504.2	1779.7	1270.5	802.3	463.7	361.4	330.6
42.5°	2784.4	2794.4	2786.0	2768.4	2722.9	1936.2	1358.7	786.3	418.8	327.0	308.2
45°	3003.8	3016.0	3028.8	3002.8	2958.6	2142.8	1474.8	765.5	370.4	298.6	292.8
47.5°	3256.8	3276.0	3287.6	3287.9	3243.7	2398.6	1663.3	753.0	327.4	279.3	285.4
50°	3790.6	3796.8	3824.1	3871.5	3837.5	2990.9	1992.7	745.2	298.2	267.4	280.0
52.5°	4560.0	4627.0	4674.2	4671.0	4624.8	3367.0	2174.2	705.5	280.9	263.0	277.4
55°	4873.3	4957.0	5044.2	5067.3	5031.4	3688.0	2345.7	665.7	272.6	266.2	278.3
57.5°	5290.8	5431.9	5551.6	5601.9	5549.9	4098.9	2571.5	644.9	270.1	274.9	284.5
60°	5778.5	5953.0	6110.2	6200.6	6200.6	4570.9	2805.5	636.2	266.5	287.7	294.7
62.5°	6091.9	6348.1	6585.3	6717.8	6713.9	4899.6	2909.5	606.7	258.5	296.7	308.8
65°	6093.1	6397.7	6700.2	6849.0	6856.6	4859.2	2737.9	535.8	243.7	297.9	322.9
67.5°	5585.2	5910.0	6262.5	6428.9	6467.4	4473.1	2370.1	440.6	219.6	285.1	328.1
70°	4717.1	5034.2	5394.0	5557.6	5625.9	3813.2	1908.9	339.6	188.8	256.9	317.4
72.5°	3716.3	4027.4	4277.8	4397.5	4450.7	2914.6	1390.1	256.6	154.9	216.5	288.9
75°	2631.1	2864.6	2997.7	3024.3	3032.6	1757.0	844.7	190.8	127.7	168.4	244.1
77.5°	1485.0	1585.1	1574.2	1586.1	1487.3	678.2	367.9	136.6	105.2	128.0	189.2
80°	579.8	597.7	561.5	550.2	504.7	252.4	162.2	95.2	84.0	96.9	132.5
82.5°	255.5	263.9	256.2	258.2	246.9	130.2	97.2	68.9	64.1	70.9	87.9
85°	140.8	143.3	142.7	146.9	140.8	52.0	46.1	42.4	44.9	48.1	56.5
87.5°	68.6	69.3	67.0	70.6	68.3	26.3	22.8	24.0	26.3	26.9	26.9
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):

	135°	145°	155°	165°	175°	180°
0°	550.6	550.6	550.6	550.6	550.6	550.6
2.5°	520.2	517.6	517.9	517.2	516.0	516.0
5°	515.7	513.1	513.1	512.4	510.9	511.2
7.5°	520.2	516.0	514.3	512.1	509.8	509.8
10°	525.3	517.9	513.4	509.5	506.7	506.7
12.5°	529.1	517.6	510.1	505.0	502.2	502.2
15°	530.4	515.4	505.0	499.0	496.4	496.1
17.5°	526.2	506.7	494.2	487.1	483.9	482.9
20°	513.4	490.9	475.9	467.9	463.4	461.8
22.5°	494.2	468.5	450.9	442.5	436.8	435.8
25°	467.2	439.7	422.4	414.3	411.1	410.1
27.5°	435.8	410.1	395.4	390.3	387.4	387.1
30°	406.0	384.1	373.3	369.4	365.9	365.3
32.5°	378.1	364.3	360.1	354.7	346.4	345.3
35°	358.2	356.9	354.0	341.9	331.5	328.7
37.5°	346.0	357.8	343.1	319.1	311.7	311.1
40°	338.9	347.9	322.6	314.3	314.9	314.3
42.5°	322.9	332.3	323.3	319.4	321.9	322.6
45°	306.9	317.1	328.1	325.5	331.5	331.5
47.5°	297.9	313.3	327.8	327.8	336.8	339.9
50°	287.7	310.1	322.6	327.0	334.1	331.5
52.5°	287.0	304.6	315.3	323.3	326.4	323.6
55°	288.0	300.1	307.8	316.8	320.7	321.0
57.5°	289.3	297.6	302.7	306.9	318.4	318.4
60°	292.5	295.3	298.2	300.4	315.6	315.9
62.5°	297.6	293.1	292.5	294.7	313.9	312.6
65°	305.6	289.9	285.1	287.3	312.3	308.5
67.5°	316.5	285.1	275.8	277.4	311.1	302.7
70°	326.4	277.4	264.2	262.6	298.9	284.1
72.5°	327.4	268.4	248.2	243.4	259.7	245.6
75°	311.4	262.3	230.6	216.5	214.5	212.6
77.5°	280.6	258.8	210.0	187.9	184.0	185.4
80°	234.8	245.6	185.4	159.1	179.9	177.7
82.5°	175.4	216.8	157.4	140.8	140.5	124.1
85°	97.5	169.0	128.3	105.5	73.4	71.2
87.5°	27.2	93.9	89.8	59.6	40.7	42.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)