

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: P200025

Luminaire Tested: **GAP-AF-01-LED-U-T2R-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200025
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-7030-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7025.4 lumens
Efficiency: N/A
Efficacy: 104.9 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): 67
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

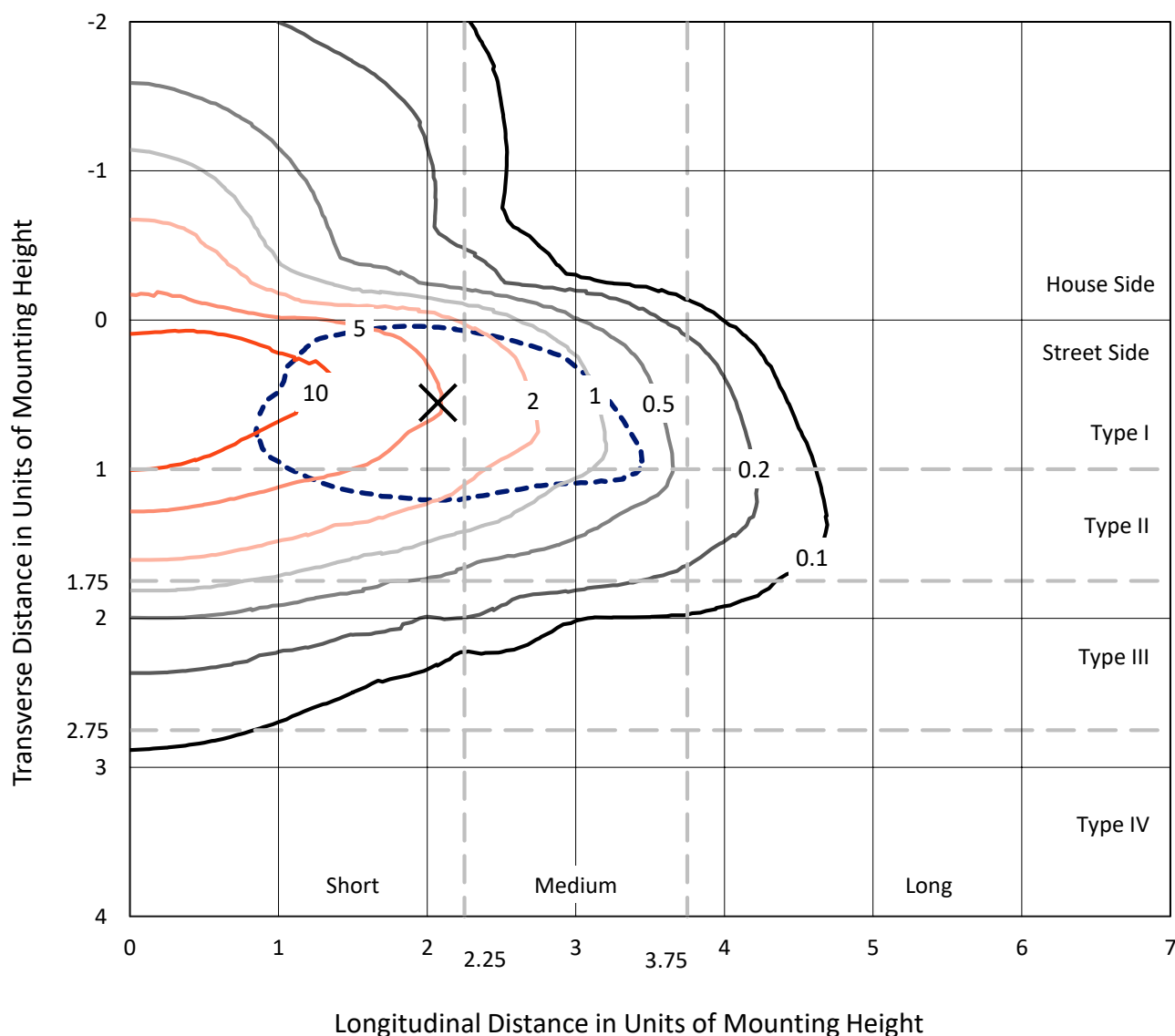


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

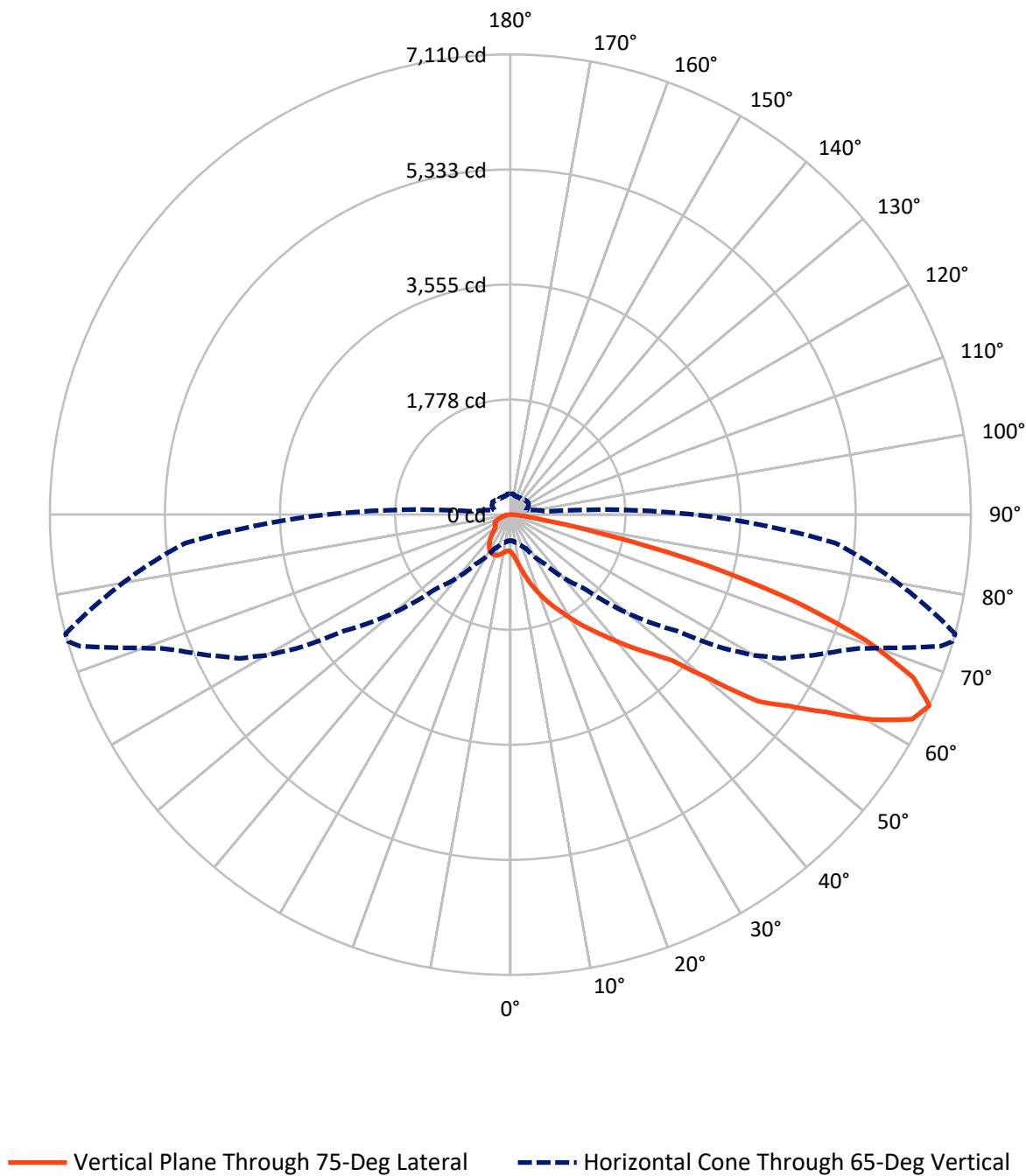


Based on 10 foot mounting height. Maximum calculated value = 17.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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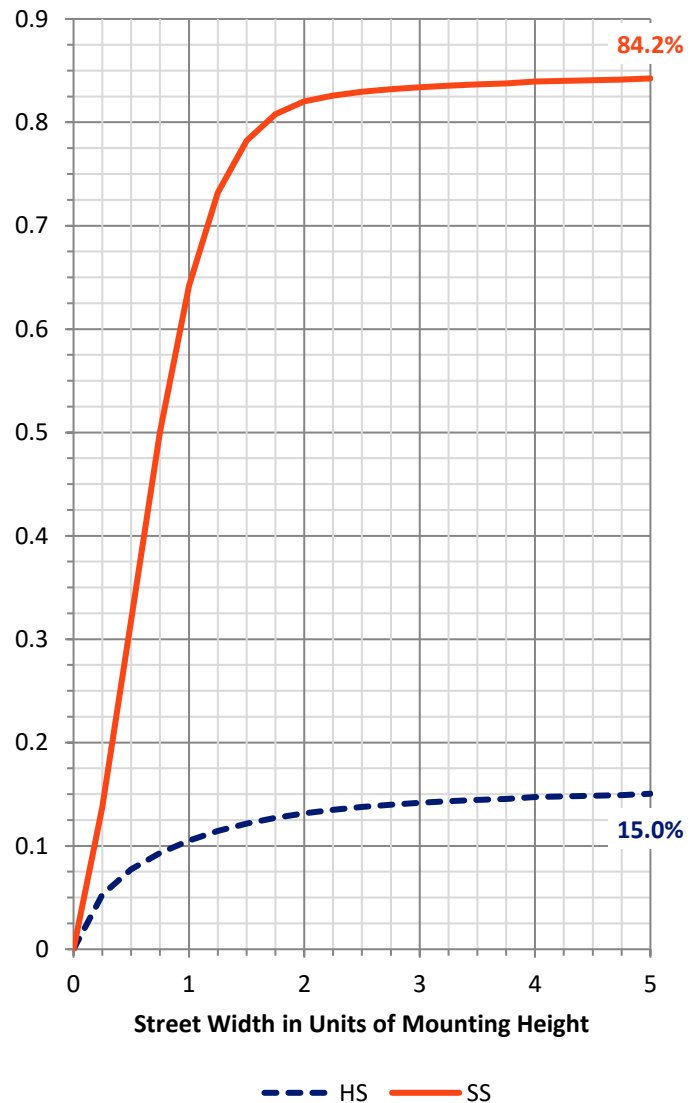
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1083.1	0.0	1083.1
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	5942.2	0.0	5942.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	7025.4	0.0	7025.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	1.0
10°-20°	275.7	3.9
20°-30°	565.7	8.1
30°-40°	951.8	13.5
40°-50°	1315.1	18.7
50°-60°	1641.7	23.4
60°-70°	1477.3	21.0
70°-80°	619.3	8.8
80°-90°	108.2	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°	7025.4	100.0
0°-180°	7025.4	100.0

Coefficient of Utilization



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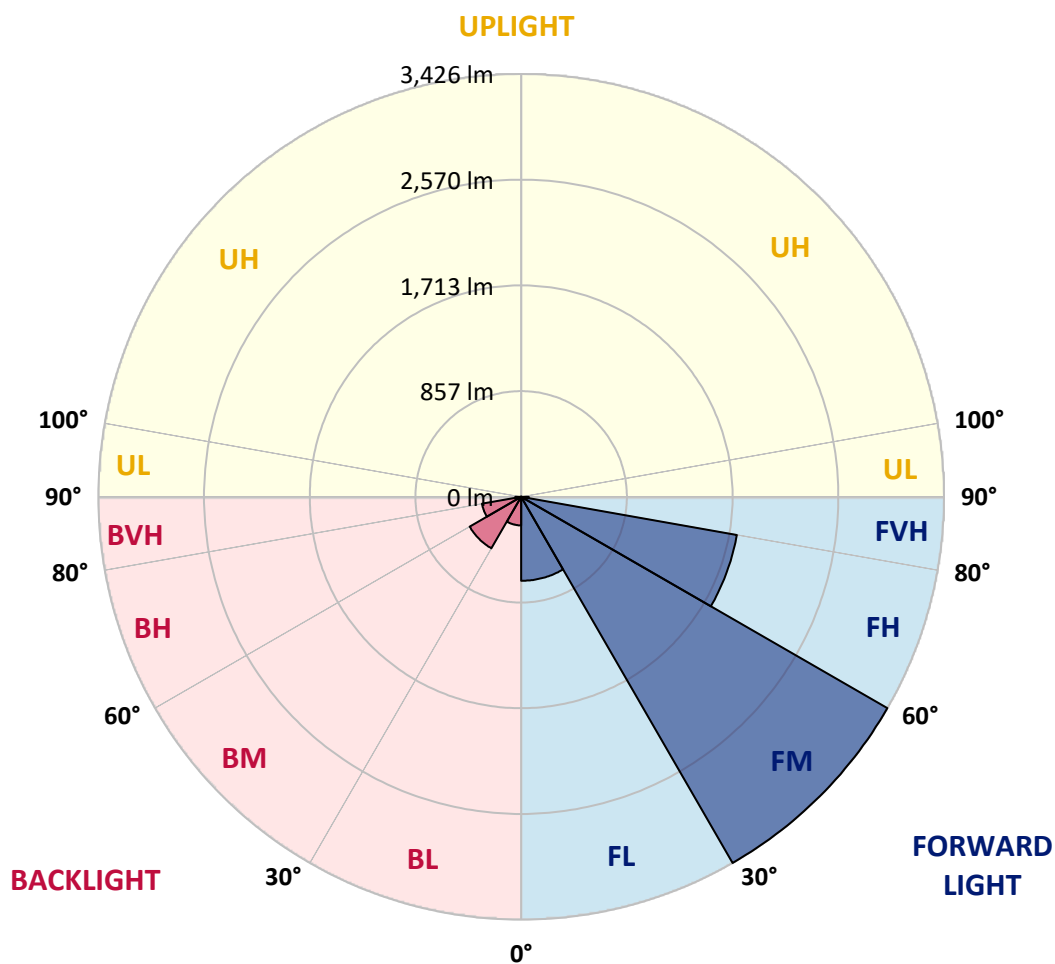
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	680.4	9.7			
FM	(30°-60°)	3426.4	48.8			
FH	(60°-80°)	1774.6	25.3			G1/1800
FVH	(80°-90°)	60.8	0.9			G1/100
BL	(0°-30°)	231.6	3.3	B1/500		
BM	(30°-60°)	482.1	6.9	B1/1000		
BH	(60°-80°)	322.0	4.6	B1/500		G1/500
BVH	(80°-90°)	47.4	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
2.5°	724.9	717.0	718.9	705.6	689.3	668.0	644.4	644.1	644.4	642.1	633.4
5°	1005.1	995.6	992.0	962.0	918.1	855.6	787.8	780.4	777.5	769.8	752.1
7.5°	1209.7	1204.4	1198.8	1176.1	1136.2	1066.4	975.2	959.7	944.6	941.0	921.0
10°	1341.7	1340.4	1328.5	1322.5	1297.6	1237.1	1148.2	1133.2	1116.9	1111.2	1090.3
12.5°	1446.1	1445.8	1440.1	1441.7	1420.3	1376.3	1299.8	1286.2	1274.3	1256.9	1242.0
15°	1518.2	1518.6	1527.0	1536.3	1532.9	1503.3	1431.6	1425.5	1415.2	1403.2	1385.6
17.5°	1577.4	1579.2	1587.7	1604.8	1623.0	1620.8	1563.8	1558.9	1550.0	1533.6	1524.2
20°	1711.2	1717.4	1700.8	1700.8	1703.0	1711.9	1684.6	1680.6	1668.0	1659.3	1652.0
22.5°	1936.9	1944.3	1906.7	1868.5	1830.8	1803.7	1776.3	1781.4	1772.7	1766.7	1762.4
25°	2230.2	2235.9	2175.1	2110.6	2034.1	1934.3	1866.8	1863.9	1859.1	1855.4	1853.5
27.5°	2506.2	2508.6	2451.0	2356.6	2267.7	2124.5	1958.6	1954.8	1949.3	1942.3	1936.3
30°	2742.3	2741.7	2682.6	2592.4	2497.2	2338.7	2097.9	2086.7	2069.9	2051.1	2036.4
32.5°	2946.8	2945.8	2880.9	2787.5	2687.8	2550.7	2288.8	2265.5	2239.6	2202.6	2180.4
35°	3107.8	3107.2	3045.9	2948.5	2834.0	2750.6	2507.6	2479.0	2446.1	2396.5	2362.3
37.5°	3168.6	3168.6	3134.4	3067.9	2966.8	2909.6	2750.6	2716.0	2680.7	2624.6	2586.0
40°	3133.0	3133.7	3140.9	3128.7	3079.5	3035.7	2977.5	2956.8	2926.5	2876.0	2835.9
42.5°	3013.7	3017.3	3066.0	3125.4	3150.1	3143.1	3178.6	3169.3	3148.0	3109.1	3077.2
45°	2862.4	2873.7	2926.8	3039.3	3169.6	3235.8	3347.1	3348.2	3344.2	3323.2	3298.6
47.5°	2654.6	2670.6	2740.7	2892.6	3123.7	3326.0	3518.4	3527.4	3535.7	3522.1	3510.8
50°	2378.6	2397.4	2502.6	2704.0	3030.3	3419.4	3842.0	3882.5	3920.4	3915.9	3923.5
52.5°	2082.9	2105.2	2234.0	2458.4	2869.7	3441.0	4048.8	4115.0	4181.2	4235.3	4292.9
55°	1816.2	1804.3	1933.1	2169.4	2605.7	3343.6	4234.7	4314.5	4388.3	4454.8	4523.4
57.5°	1454.8	1474.5	1603.5	1837.2	2256.2	3068.5	4362.7	4479.4	4585.5	4695.6	4792.6
60°	1063.4	1083.1	1223.0	1460.5	1876.7	2651.5	4264.9	4441.8	4611.9	4780.4	4912.1
62.5°	642.1	656.7	780.1	1006.2	1447.1	2157.1	3829.3	4061.5	4311.5	4513.1	4714.9
65°	399.7	408.0	453.5	578.0	929.4	1610.4	3128.7	3381.8	3651.1	3906.9	4116.7
67.5°	327.2	330.2	338.4	365.2	510.5	1050.1	2328.7	2552.9	2795.8	3043.3	3276.6
70°	294.2	292.3	292.3	293.9	327.2	564.7	1524.6	1670.6	1873.1	2088.3	2301.8
72.5°	265.7	263.7	260.0	255.0	267.0	344.5	788.1	898.1	1044.1	1235.2	1439.8
75°	238.7	236.1	231.7	225.4	233.9	260.0	378.4	424.6	495.8	597.5	711.6
77.5°	210.9	207.5	203.5	198.9	209.4	202.1	221.8	238.4	265.7	298.3	341.2
80°	179.1	176.2	175.0	172.6	185.2	153.9	156.6	166.9	182.9	200.5	220.4
82.5°	140.3	140.3	145.7	146.6	160.6	110.7	117.0	125.9	134.4	143.6	153.0
85°	92.5	93.1	111.1	118.0	126.7	74.6	87.7	90.8	97.5	102.7	106.7
87.5°	29.0	31.2	67.8	75.2	72.8	42.3	53.9	55.1	59.9	63.5	66.8
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
2.5°	633.4	629.5	625.8	625.5	622.8	619.2	620.5	614.8	615.1	612.2	608.9
5°	744.8	742.2	728.9	725.3	715.2	709.0	708.0	694.7	693.0	685.4	677.0
7.5°	905.1	896.5	877.9	868.9	851.9	839.3	833.3	815.7	807.0	787.1	778.2
10°	1073.0	1062.1	1039.2	1026.5	1010.2	989.9	979.0	953.4	943.4	925.1	903.1
12.5°	1228.7	1217.7	1194.1	1184.5	1162.8	1141.2	1129.3	1100.4	1087.3	1058.0	1040.8
15°	1372.7	1361.7	1341.0	1331.1	1309.5	1291.9	1275.9	1247.3	1232.0	1204.7	1182.0
17.5°	1512.3	1500.6	1482.7	1473.8	1452.8	1434.8	1417.5	1390.7	1375.0	1347.7	1327.4
20°	1642.0	1633.3	1620.5	1608.4	1587.4	1571.1	1550.6	1527.3	1504.7	1484.8	1465.3
22.5°	1755.0	1751.8	1737.8	1732.5	1714.5	1700.5	1682.6	1659.6	1643.4	1618.0	1600.1
25°	1852.5	1851.5	1844.9	1843.2	1830.5	1817.2	1813.2	1794.2	1779.4	1757.1	1738.5
27.5°	1936.3	1937.2	1935.6	1940.3	1936.9	1930.9	1931.2	1925.0	1916.3	1897.8	1881.5
30°	2029.4	2024.0	2027.1	2033.8	2035.7	2036.4	2047.4	2051.1	2050.4	2038.0	2030.0
32.5°	2161.0	2148.5	2136.8	2135.8	2142.5	2145.1	2163.8	2173.3	2181.7	2184.6	2186.1
35°	2329.0	2303.7	2279.4	2266.5	2255.2	2258.2	2271.5	2287.2	2305.4	2318.1	2333.0
37.5°	2540.5	2509.5	2466.6	2436.1	2428.4	2411.8	2420.4	2432.7	2450.6	2470.4	2496.2
40°	2796.8	2749.9	2701.8	2661.2	2639.2	2608.7	2608.3	2606.1	2617.0	2635.3	2671.8
42.5°	3043.6	3002.0	2950.9	2908.3	2879.6	2838.8	2830.5	2808.8	2813.9	2829.9	2865.4
45°	3274.7	3240.4	3209.2	3160.0	3135.7	3091.5	3077.5	3051.9	3037.6	3044.9	3080.6
47.5°	3498.5	3476.5	3444.0	3412.0	3393.4	3353.8	3335.9	3317.6	3299.3	3298.6	3335.9
50°	3934.8	3923.2	3884.6	3851.3	3860.2	3811.7	3814.7	3765.5	3787.8	3790.4	3868.7
52.5°	4344.8	4385.3	4414.0	4448.8	4471.4	4475.8	4490.8	4513.1	4539.9	4593.2	4665.7
55°	4579.5	4630.4	4660.0	4686.5	4730.5	4739.7	4764.8	4794.3	4818.0	4877.8	4939.3
57.5°	4858.5	4952.9	4998.8	5041.1	5100.2	5122.8	5164.4	5196.7	5227.3	5298.1	5372.6
60°	5030.4	5145.4	5239.0	5305.7	5379.9	5433.1	5496.0	5546.5	5618.3	5703.2	5814.2
62.5°	4893.7	5062.7	5186.7	5301.5	5402.3	5503.9	5594.1	5688.5	5797.7	5925.9	6098.2
65°	4349.4	4521.3	4733.8	4852.9	4986.3	5143.2	5280.2	5433.1	5581.7	5768.7	6023.4
67.5°	3501.5	3701.3	3940.1	4060.2	4213.5	4388.6	4542.4	4729.2	4902.8	5129.1	5444.1
70°	2523.9	2782.3	2983.1	3108.4	3287.4	3467.9	3616.3	3833.7	3977.4	4209.4	4535.1
72.5°	1598.1	1801.9	2048.1	2206.0	2364.9	2547.8	2699.5	2886.9	3021.0	3232.4	3527.4
75°	859.3	1009.5	1225.7	1375.7	1545.9	1702.2	1879.8	2005.5	2104.6	2271.8	2511.3
77.5°	402.7	494.2	603.5	718.9	834.3	954.7	1071.8	1173.5	1216.0	1311.7	1453.1
80°	244.4	274.0	305.9	341.6	389.7	428.7	480.2	517.5	520.1	550.3	593.6
82.5°	163.3	174.3	183.9	192.9	205.2	214.8	225.8	238.7	244.0	251.1	265.1
85°	111.5	116.7	118.8	124.3	123.0	126.4	130.7	135.1	137.3	137.0	143.3
87.5°	68.5	71.1	72.4	73.9	72.8	71.4	73.5	75.8	76.5	74.6	75.2
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°	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0	571.0
2.5°	609.5	606.5	603.5	601.6	600.9	583.2	575.6	570.7	560.0	551.3	544.3
5°	672.4	666.1	661.0	655.1	651.7	607.2	590.9	579.6	560.9	550.0	540.1
7.5°	773.4	755.8	745.4	733.9	724.0	643.4	616.6	598.8	572.9	558.4	547.0
10°	888.2	869.9	853.7	835.7	820.0	691.6	652.4	625.2	590.9	572.0	557.0
12.5°	1016.2	998.2	977.7	954.7	934.7	752.8	698.2	659.4	612.5	587.3	566.3
15°	1167.6	1135.9	1110.9	1084.4	1061.1	826.0	751.8	697.9	635.5	601.3	573.3
17.5°	1308.2	1274.9	1240.9	1217.7	1190.8	908.2	805.7	737.2	654.5	610.2	574.6
20°	1445.5	1409.2	1380.0	1348.7	1320.5	993.2	863.2	771.8	666.7	610.5	566.3
22.5°	1566.6	1544.0	1511.3	1477.4	1448.8	1078.4	917.1	801.1	671.4	602.9	551.6
25°	1704.2	1680.3	1640.3	1611.8	1579.8	1165.1	970.0	823.7	668.6	588.6	529.1
27.5°	1851.2	1824.5	1783.6	1753.7	1715.2	1255.3	1018.6	839.9	658.8	565.3	498.8
30°	2004.5	1980.3	1939.9	1909.8	1870.7	1350.7	1072.7	850.9	638.7	533.0	463.6
32.5°	2169.1	2148.8	2108.9	2077.2	2035.7	1454.1	1123.3	854.3	608.6	494.8	426.3
35°	2325.4	2311.4	2277.8	2248.2	2205.0	1551.9	1176.8	852.6	572.6	452.9	392.3
37.5°	2501.3	2493.0	2476.4	2438.7	2385.9	1684.6	1240.9	845.5	528.7	411.4	366.4
40°	2688.8	2689.4	2671.5	2645.9	2596.6	1845.5	1317.4	832.0	480.8	374.8	342.8
42.5°	2887.2	2897.7	2889.1	2870.7	2823.5	2007.7	1408.9	815.4	434.3	339.1	319.6
45°	3114.8	3127.4	3140.6	3113.8	3067.9	2221.9	1529.3	793.8	384.0	309.5	303.6
47.5°	3377.1	3397.1	3409.0	3409.4	3363.5	2487.3	1724.7	780.7	339.5	289.6	296.0
50°	3930.8	3937.0	3965.3	4014.6	3979.3	3101.5	2066.3	772.8	309.2	277.3	290.3
52.5°	4728.5	4798.0	4846.8	4843.6	4795.7	3491.5	2254.6	731.6	291.2	272.7	287.7
55°	5053.3	5140.2	5230.6	5254.6	5217.3	3824.4	2432.4	690.3	282.7	276.0	288.7
57.5°	5486.4	5632.7	5756.7	5808.9	5755.0	4250.3	2666.5	668.6	280.0	284.9	295.0
60°	5992.1	6173.0	6336.0	6429.7	6429.7	4739.7	2909.2	659.7	276.3	298.3	305.6
62.5°	6317.0	6582.7	6828.7	6966.1	6962.1	5080.7	3016.9	629.2	268.0	307.6	320.2
65°	6318.4	6634.2	6947.8	7102.1	7110.0	5038.7	2839.1	555.7	252.7	308.8	334.9
67.5°	5791.7	6128.5	6494.0	6666.5	6706.4	4638.4	2457.7	456.9	227.8	295.6	340.2
70°	4891.4	5220.3	5593.4	5763.0	5833.8	3954.1	1979.6	352.2	195.9	266.4	329.2
72.5°	3853.7	4176.2	4435.9	4559.9	4615.1	3022.3	1441.4	266.0	160.6	224.4	299.6
75°	2728.4	2970.4	3108.4	3136.1	3144.7	1821.9	875.8	197.9	132.3	174.6	253.1
77.5°	1539.9	1643.7	1632.4	1644.7	1542.3	703.3	381.5	141.7	109.0	132.6	196.2
80°	601.3	619.8	582.3	570.7	523.4	261.6	168.3	98.8	87.1	100.4	137.3
82.5°	265.1	273.7	265.7	267.6	256.0	135.1	100.7	71.4	66.5	73.5	91.1
85°	146.0	148.6	147.9	152.3	146.0	53.9	47.8	43.9	46.6	49.9	58.6
87.5°	71.1	71.8	69.5	73.2	70.8	27.4	23.6	24.9	27.4	28.0	28.0
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):

	135°	145°	155°	165°	175°	180°
0°	571.0	571.0	571.0	571.0	571.0	571.0
2.5°	539.3	536.7	537.0	536.4	535.1	535.1
5°	534.8	532.1	532.1	531.3	529.7	530.0
7.5°	539.3	535.1	533.4	531.0	528.7	528.7
10°	544.6	537.0	532.4	528.4	525.4	525.4
12.5°	548.7	536.7	529.1	523.7	520.7	520.7
15°	550.0	534.4	523.7	517.5	514.7	514.4
17.5°	545.6	525.4	512.4	505.1	501.8	500.7
20°	532.4	509.1	493.5	485.1	480.5	478.9
22.5°	512.4	485.7	467.5	458.9	452.9	451.9
25°	484.4	455.9	437.9	429.6	426.3	425.3
27.5°	451.9	425.3	410.0	404.7	401.6	401.3
30°	420.9	398.4	387.1	383.1	379.4	378.7
32.5°	392.0	377.7	373.4	367.7	359.1	358.2
35°	371.5	370.1	367.1	354.4	343.8	340.9
37.5°	358.8	371.1	355.7	330.8	323.2	322.6
40°	351.5	360.8	334.6	325.9	326.5	325.9
42.5°	334.9	344.5	335.2	331.2	333.9	334.6
45°	318.3	328.9	340.2	337.5	343.8	343.8
47.5°	308.8	324.8	339.8	339.8	349.2	352.5
50°	298.3	321.6	334.6	339.1	346.5	343.8
52.5°	297.6	315.9	326.9	335.2	338.4	335.5
55°	298.6	311.3	319.2	328.6	332.4	332.8
57.5°	299.9	308.5	313.9	318.3	330.2	330.2
60°	303.3	306.3	309.2	311.6	327.2	327.6
62.5°	308.5	304.0	303.3	305.6	325.6	324.2
65°	316.9	300.6	295.6	297.9	323.9	319.9
67.5°	328.3	295.6	285.9	287.7	322.6	313.9
70°	338.4	287.7	274.0	272.4	309.9	294.6
72.5°	339.5	278.3	257.5	252.4	269.4	254.7
75°	322.9	272.0	239.1	224.4	222.5	220.4
77.5°	290.9	268.3	217.8	194.8	190.8	192.2
80°	243.4	254.7	192.2	165.0	186.5	184.2
82.5°	181.9	224.7	163.3	146.0	145.7	128.7
85°	101.1	175.3	133.0	109.4	76.2	73.9
87.5°	28.3	97.5	93.1	61.8	42.3	43.9
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)