

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: P269823

Luminaire Tested: **GAP-AF-01-LED-U-T2R-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269823
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-7027-800
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4649.3 lumens
Efficiency: N/A
Efficacy: 105.7 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): 44
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

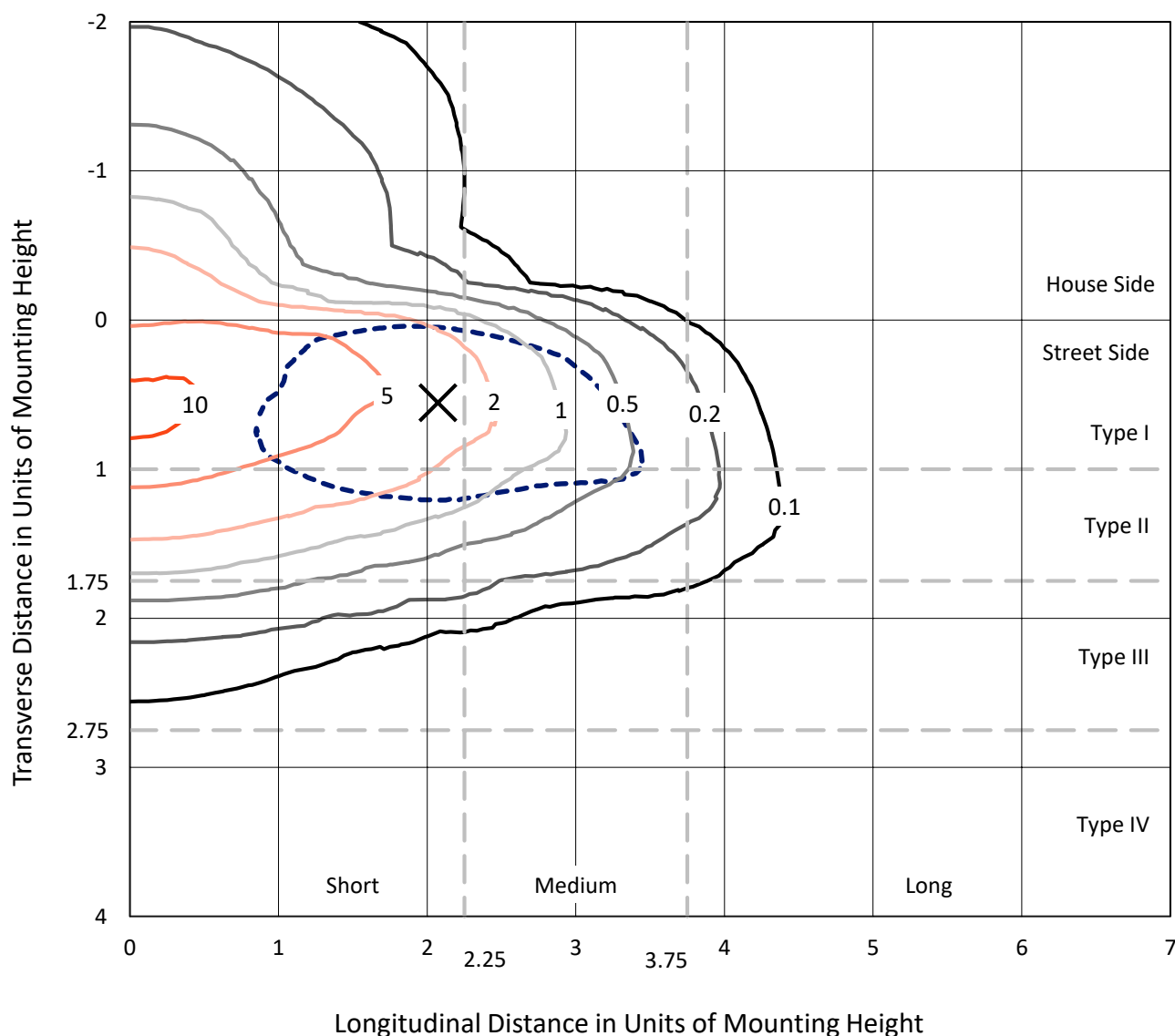


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

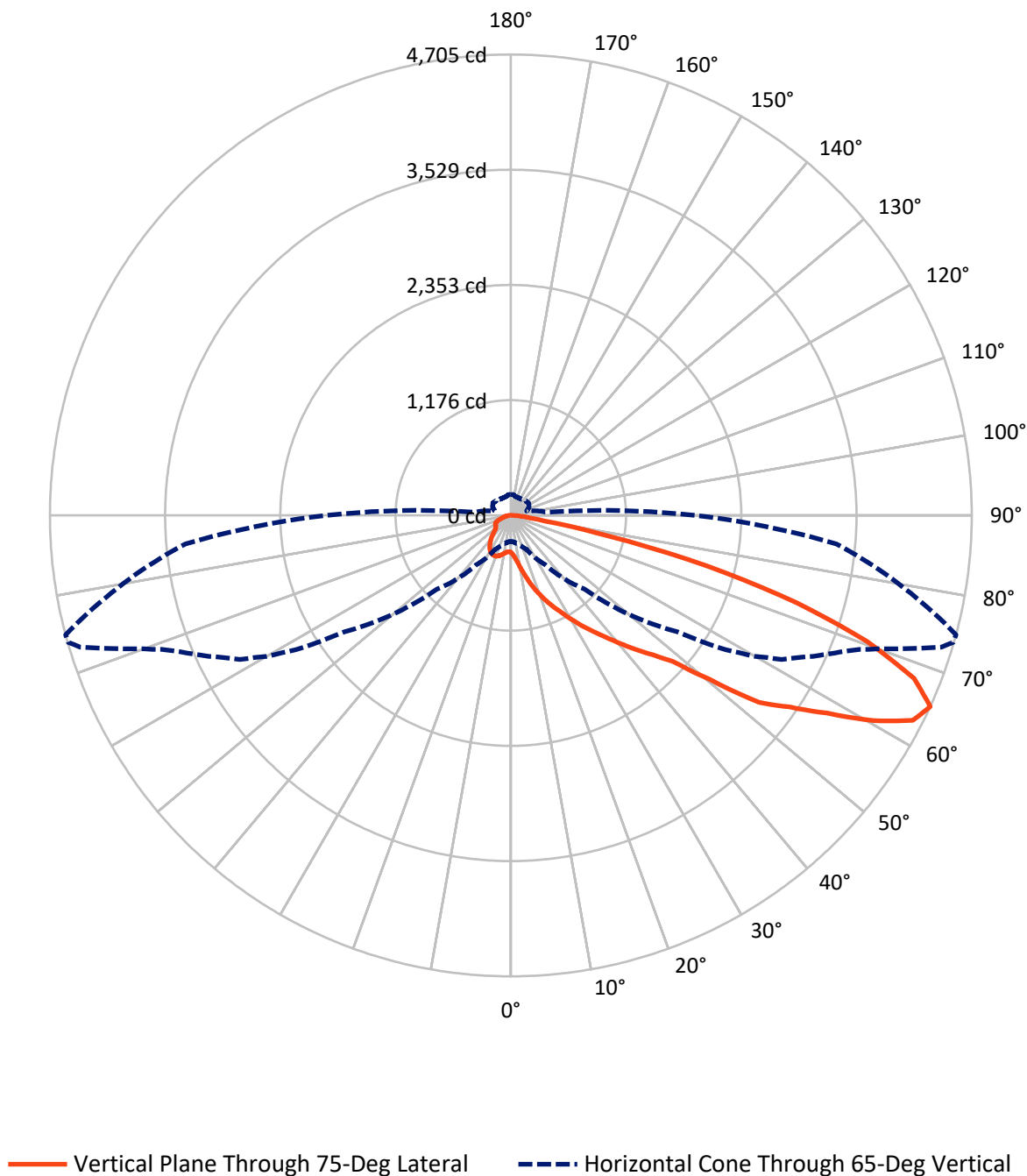


Based on 10 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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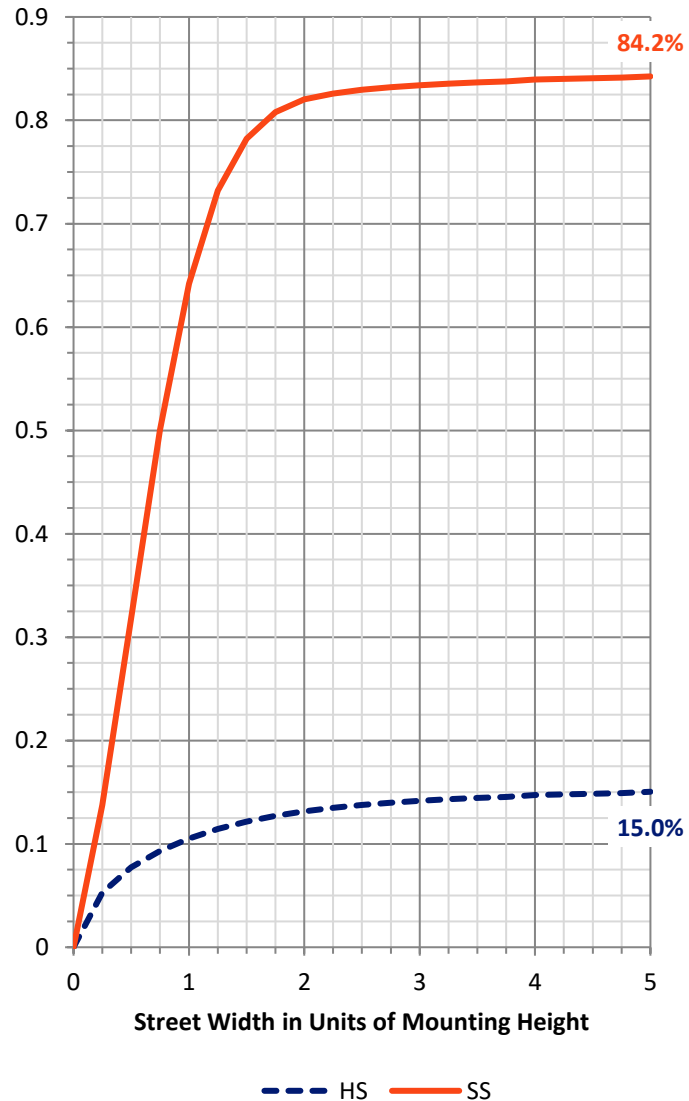
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	716.8	0.0	716.8
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	3932.5	0.0	3932.5
	% Fixture	84.6	0.0	84.6
Total	Lumens	4649.3	0.0	4649.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.7	1.0
10°-20°	182.5	3.9
20°-30°	374.4	8.1
30°-40°	629.9	13.5
40°-50°	870.3	18.7
50°-60°	1086.4	23.4
60°-70°	977.7	21.0
70°-80°	409.8	8.8
80°-90°	71.6	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°	4649.3	100.0
0°-180°	4649.3	100.0

Coefficient of Utilization



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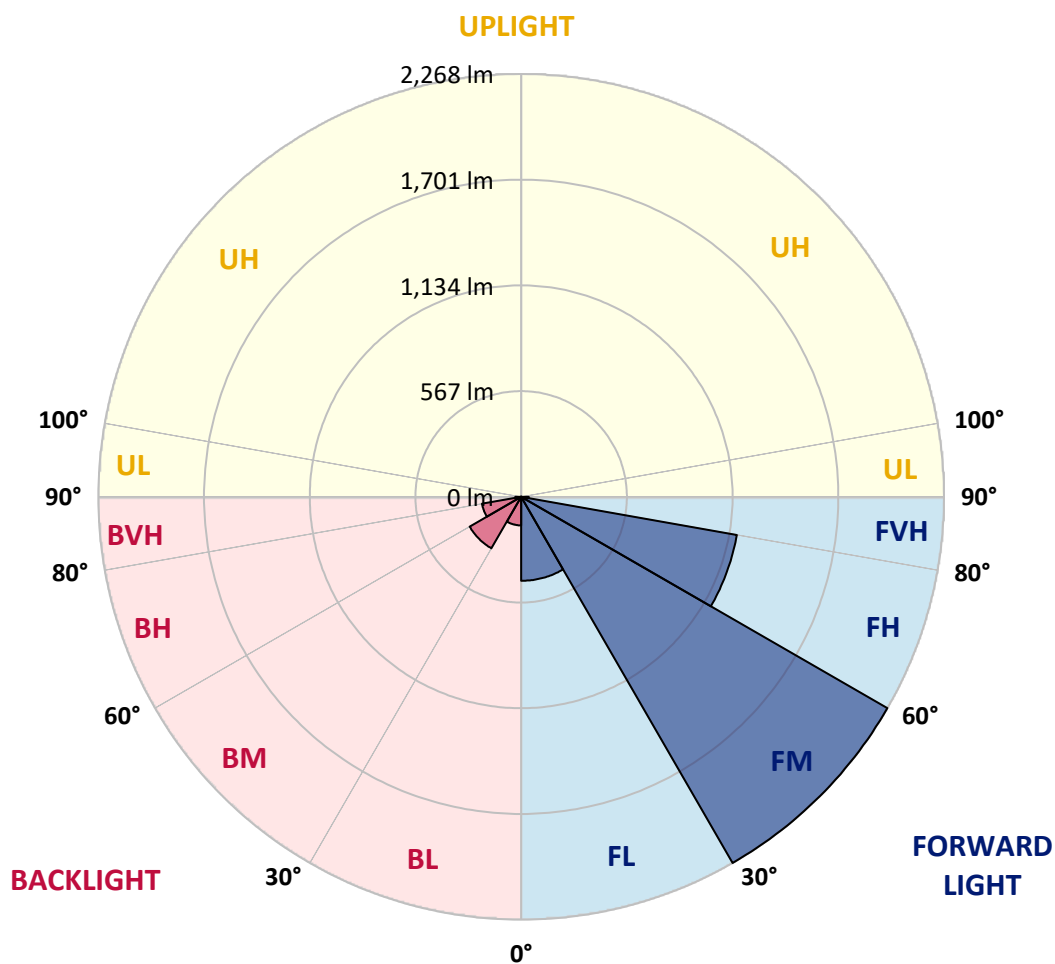
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	450.3	9.7			
FM	(30°-60°)	2267.6	48.8			
FH	(60°-80°)	1174.4	25.3			G1/1800
FVH	(80°-90°)	40.2	0.9			G1/100
BL	(0°-30°)	153.3	3.3	B1/500		
BM	(30°-60°)	319.1	6.9	B1/1000		
BH	(60°-80°)	213.1	4.6	B1/500		G1/500
BVH	(80°-90°)	31.4	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°	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8
2.5°	479.8	474.5	475.7	466.9	456.2	442.1	426.4	426.2	426.4	425.0	419.1
5°	665.3	658.8	656.4	636.5	607.6	566.2	521.3	516.4	514.5	509.5	497.8
7.5°	800.6	797.1	793.4	778.3	751.9	705.7	645.4	635.1	625.2	622.7	609.6
10°	888.0	887.0	879.1	875.2	858.7	818.6	759.8	749.9	739.1	735.4	721.6
12.5°	957.1	956.9	953.1	954.2	939.8	910.8	860.1	851.2	843.2	831.8	821.9
15°	1004.8	1005.1	1010.6	1016.7	1014.5	995.0	947.4	943.4	936.6	928.7	917.0
17.5°	1044.0	1045.1	1050.7	1061.9	1074.2	1072.5	1034.9	1031.7	1025.8	1014.9	1008.7
20°	1132.5	1136.6	1125.5	1125.5	1127.0	1132.9	1114.8	1112.2	1103.7	1098.1	1093.2
22.5°	1281.8	1286.7	1261.8	1236.4	1211.6	1193.6	1175.5	1178.8	1173.1	1169.1	1166.3
25°	1475.9	1479.7	1439.4	1396.8	1346.1	1280.1	1235.3	1233.5	1230.4	1228.0	1226.6
27.5°	1658.6	1660.2	1622.1	1559.5	1500.8	1405.9	1296.2	1293.6	1290.0	1285.4	1281.4
30°	1814.8	1814.3	1775.2	1715.7	1652.6	1547.7	1388.4	1380.9	1369.8	1357.2	1347.6
32.5°	1950.2	1949.5	1906.7	1844.8	1778.7	1688.1	1514.7	1499.4	1482.2	1457.7	1442.9
35°	2056.7	2056.2	2015.7	1951.3	1875.7	1820.3	1659.4	1640.6	1618.7	1586.0	1563.3
37.5°	2097.0	2097.0	2074.2	2030.3	1963.3	1925.5	1820.3	1797.5	1774.2	1737.0	1711.5
40°	2073.4	2073.8	2078.7	2070.6	2038.0	2008.9	1970.4	1956.8	1936.7	1903.2	1876.6
42.5°	1994.3	1996.8	2028.9	2068.3	2084.6	2080.0	2103.6	2097.5	2083.3	2057.6	2036.5
45°	1894.3	1901.7	1936.9	2011.3	2097.6	2141.4	2215.1	2215.8	2213.2	2199.3	2183.1
47.5°	1756.7	1767.2	1813.8	1914.3	2067.2	2201.0	2328.4	2334.3	2339.8	2330.9	2323.3
50°	1574.1	1586.6	1656.1	1789.6	2005.3	2262.9	2542.6	2569.4	2594.6	2591.4	2596.6
52.5°	1378.4	1393.2	1478.4	1626.9	1899.0	2277.2	2679.5	2723.2	2767.0	2802.9	2841.0
55°	1201.9	1194.0	1279.1	1435.8	1724.3	2212.7	2802.4	2855.3	2904.1	2948.1	2993.5
57.5°	962.8	975.7	1061.1	1215.9	1493.2	2030.7	2887.2	2964.4	3034.7	3107.4	3171.7
60°	703.7	716.8	809.5	966.4	1242.0	1754.7	2822.5	2939.6	3052.0	3163.7	3250.7
62.5°	425.0	434.6	516.3	666.0	957.8	1427.5	2534.2	2687.8	2853.2	2986.7	3120.3
65°	264.6	270.0	300.2	382.5	615.1	1065.7	2070.6	2237.9	2416.3	2585.5	2724.3
67.5°	216.5	218.5	223.9	241.6	337.9	695.0	1541.1	1689.4	1850.2	2014.0	2168.5
70°	194.8	193.4	193.4	194.6	216.5	373.6	1008.9	1105.5	1239.7	1382.0	1523.3
72.5°	175.8	174.5	172.0	168.8	176.6	228.0	521.6	594.4	690.9	817.5	952.8
75°	158.0	156.2	153.4	149.2	154.7	172.0	250.4	281.0	328.2	395.4	470.9
77.5°	139.5	137.4	134.7	131.6	138.7	133.8	146.8	157.8	175.8	197.4	225.7
80°	118.7	116.6	115.7	114.3	122.6	101.9	103.7	110.5	121.0	132.7	146.0
82.5°	92.9	92.9	96.4	97.0	106.3	73.3	77.4	83.5	88.9	95.1	101.1
85°	61.2	61.7	73.5	78.2	83.8	49.2	58.1	60.0	64.5	68.0	70.6
87.5°	19.1	20.8	44.8	49.8	48.1	27.9	35.7	36.6	39.6	42.0	44.2
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8
2.5°	419.1	416.5	414.2	413.8	412.1	409.7	410.6	406.9	407.1	405.1	402.9
5°	492.9	491.2	482.4	480.0	473.3	469.2	468.5	459.8	458.7	453.6	448.1
7.5°	599.0	593.3	580.9	575.0	563.7	555.4	551.5	539.8	534.1	520.8	515.0
10°	710.1	702.8	687.7	679.3	668.6	655.1	647.9	630.9	624.3	612.3	597.7
12.5°	813.1	805.9	790.1	783.9	769.6	755.2	747.3	728.2	719.6	700.1	688.8
15°	908.4	901.1	887.4	880.9	866.5	854.9	844.3	825.5	815.3	797.2	782.3
17.5°	1000.8	993.2	981.3	975.3	961.5	949.6	938.1	920.4	910.0	891.8	878.5
20°	1086.7	1080.9	1072.3	1064.4	1050.6	1039.8	1026.1	1010.8	995.9	982.6	969.8
22.5°	1161.5	1159.3	1150.0	1146.4	1134.6	1125.3	1113.4	1098.3	1087.6	1070.8	1058.9
25°	1225.9	1225.3	1220.8	1219.8	1211.5	1202.7	1200.0	1187.4	1177.6	1162.8	1150.5
27.5°	1281.4	1282.2	1281.0	1284.0	1281.8	1277.8	1278.1	1273.9	1268.1	1255.9	1245.1
30°	1343.1	1339.6	1341.4	1345.9	1347.2	1347.6	1355.0	1357.2	1356.9	1348.7	1343.4
32.5°	1430.2	1421.7	1414.1	1413.5	1417.9	1419.6	1431.9	1438.2	1443.8	1445.8	1446.7
35°	1541.3	1524.6	1508.6	1499.9	1492.4	1494.4	1503.3	1513.6	1525.7	1534.0	1543.9
37.5°	1681.3	1660.7	1632.4	1612.2	1607.1	1596.1	1601.8	1609.9	1621.8	1634.8	1652.1
40°	1850.9	1819.8	1787.9	1761.1	1746.7	1726.4	1726.2	1724.6	1731.8	1744.0	1768.1
42.5°	2014.2	1986.7	1952.8	1924.7	1905.8	1878.6	1873.1	1858.9	1862.1	1872.6	1896.2
45°	2167.2	2144.4	2123.9	2091.3	2075.2	2045.9	2036.6	2019.7	2010.2	2015.1	2038.7
47.5°	2315.2	2300.6	2279.2	2258.0	2245.8	2219.5	2207.7	2195.5	2183.4	2183.1	2207.7
50°	2603.9	2596.3	2570.7	2548.8	2554.7	2522.5	2524.5	2492.0	2506.7	2508.4	2560.2
52.5°	2875.4	2902.2	2921.1	2944.1	2959.1	2962.0	2972.0	2986.7	3004.6	3039.7	3087.7
55°	3030.6	3064.4	3083.9	3101.5	3130.6	3136.7	3153.2	3172.9	3188.4	3228.1	3268.8
57.5°	3215.4	3277.7	3308.2	3336.1	3375.3	3390.3	3417.7	3439.2	3459.4	3506.3	3555.5
60°	3329.1	3405.2	3467.1	3511.2	3560.3	3595.6	3637.1	3670.7	3718.2	3774.3	3847.7
62.5°	3238.6	3350.4	3432.6	3508.4	3575.1	3642.4	3702.1	3764.5	3836.8	3921.7	4035.6
65°	2878.3	2992.2	3132.7	3211.5	3299.8	3403.7	3494.3	3595.6	3693.9	3817.5	3986.1
67.5°	2317.3	2449.5	2607.5	2686.9	2788.3	2904.3	3006.0	3129.7	3244.6	3394.4	3602.8
70°	1670.3	1841.3	1974.1	2057.1	2175.5	2295.0	2393.2	2537.1	2632.2	2785.7	3001.1
72.5°	1057.7	1192.5	1355.4	1459.8	1565.0	1686.1	1786.5	1910.5	1999.3	2139.3	2334.3
75°	568.6	668.1	811.1	910.4	1023.1	1126.5	1244.1	1327.2	1392.7	1503.5	1661.9
77.5°	266.4	327.1	399.3	475.7	552.1	631.8	709.2	776.6	804.7	868.1	961.6
80°	161.8	181.4	202.5	226.1	258.0	283.7	317.8	342.4	344.2	364.3	392.7
82.5°	108.1	115.3	121.7	127.6	135.7	142.1	149.4	158.0	161.5	166.1	175.3
85°	73.8	77.3	78.5	82.4	81.4	83.6	86.4	89.3	90.9	90.6	94.9
87.5°	45.4	47.2	48.0	48.9	48.1	47.3	48.7	50.1	50.7	49.2	49.8
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°	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8
2.5°	403.3	401.5	399.3	398.0	397.7	386.0	380.9	377.6	370.6	364.8	360.2
5°	445.0	440.8	437.5	433.5	431.4	401.8	391.0	383.5	371.2	364.0	357.3
7.5°	511.9	500.1	493.3	485.7	479.1	425.8	408.0	396.3	379.2	369.6	361.9
10°	587.9	575.6	564.9	552.9	542.7	457.7	431.7	413.7	391.0	378.5	368.7
12.5°	672.6	660.7	647.0	631.8	618.7	498.2	462.1	436.3	405.3	388.6	374.8
15°	772.6	751.7	735.3	717.7	702.2	546.6	497.5	461.9	420.5	397.9	379.4
17.5°	865.6	843.7	821.3	805.9	788.1	601.0	533.2	487.9	433.1	403.8	380.3
20°	956.5	932.6	913.2	892.6	873.8	657.3	571.3	510.7	441.2	404.1	374.8
22.5°	1036.7	1021.7	1000.2	977.7	958.9	713.7	607.0	530.1	444.3	398.9	365.2
25°	1127.8	1111.9	1085.5	1066.6	1045.4	771.0	641.8	545.1	442.5	389.5	350.1
27.5°	1225.1	1207.5	1180.5	1160.6	1135.1	830.8	674.1	556.0	435.9	374.1	330.0
30°	1326.4	1310.4	1283.9	1263.7	1238.0	893.9	709.9	563.1	422.7	352.8	306.9
32.5°	1435.4	1422.0	1395.6	1374.8	1347.2	962.4	743.3	565.4	402.7	327.4	282.1
35°	1538.8	1529.6	1507.4	1487.9	1459.1	1027.0	778.8	564.2	378.9	299.8	259.7
37.5°	1655.2	1649.7	1638.8	1614.0	1579.0	1114.8	821.3	559.6	349.9	272.2	242.5
40°	1779.5	1779.8	1768.0	1751.1	1718.5	1221.3	871.9	550.7	318.2	248.0	226.9
42.5°	1910.8	1917.6	1912.0	1899.7	1868.6	1328.8	932.4	539.6	287.4	224.4	211.6
45°	2061.3	2069.7	2078.5	2060.6	2030.3	1470.4	1012.1	525.2	254.2	204.9	201.0
47.5°	2235.0	2248.1	2256.1	2256.3	2225.9	1646.1	1141.4	516.6	224.7	191.7	195.8
50°	2601.3	2605.5	2624.2	2656.7	2633.4	2052.4	1367.5	511.5	204.6	183.6	192.1
52.5°	3129.2	3175.2	3207.6	3205.4	3173.7	2310.6	1492.1	484.1	192.7	180.5	190.4
55°	3344.2	3401.7	3461.6	3477.3	3452.7	2531.0	1609.8	456.9	187.0	182.6	191.0
57.5°	3630.8	3727.5	3809.7	3844.2	3808.5	2812.9	1764.7	442.5	185.3	188.6	195.2
60°	3965.5	4085.2	4193.0	4255.1	4255.1	3136.7	1925.2	436.5	182.8	197.4	202.3
62.5°	4180.5	4356.3	4519.2	4610.0	4607.3	3362.3	1996.7	416.4	177.3	203.6	211.9
65°	4181.4	4390.5	4598.0	4700.0	4705.3	3334.6	1878.8	367.8	167.3	204.5	221.6
67.5°	3832.8	4055.7	4297.5	4411.8	4438.2	3069.6	1626.6	302.4	150.7	195.7	225.1
70°	3237.1	3454.7	3701.6	3813.8	3860.7	2616.8	1310.0	233.0	129.6	176.2	217.8
72.5°	2550.3	2763.7	2935.7	3017.6	3054.1	2000.2	954.0	176.1	106.3	148.5	198.3
75°	1805.7	1965.9	2057.1	2075.4	2081.2	1205.7	579.6	131.0	87.6	115.5	167.4
77.5°	1019.0	1087.8	1080.3	1088.4	1020.7	465.4	252.5	93.8	72.1	87.9	129.8
80°	397.9	410.2	385.4	377.6	346.3	173.3	111.4	65.3	57.6	66.5	90.9
82.5°	175.3	181.1	175.8	177.1	169.4	89.3	66.7	47.3	43.9	48.7	60.2
85°	96.6	98.4	97.9	100.8	96.6	35.7	31.7	29.0	30.8	33.0	38.7
87.5°	47.2	47.5	46.1	48.4	46.9	18.1	15.6	16.4	18.1	18.4	18.4
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):

	135°	145°	155°	165°	175°	180°
0°	377.8	377.8	377.8	377.8	377.8	377.8
2.5°	356.9	355.2	355.4	355.0	354.1	354.1
5°	353.8	352.0	352.0	351.6	350.6	350.8
7.5°	356.9	354.1	352.9	351.4	349.9	349.9
10°	360.5	355.4	352.3	349.7	347.7	347.7
12.5°	363.1	355.2	350.1	346.6	344.6	344.6
15°	364.0	353.7	346.6	342.4	340.6	340.5
17.5°	361.1	347.7	339.1	334.3	332.1	331.5
20°	352.3	337.0	326.5	321.1	318.0	316.9
22.5°	339.1	321.6	309.3	303.6	299.8	299.0
25°	320.6	301.7	289.9	284.4	282.1	281.4
27.5°	299.0	281.4	271.4	267.9	265.8	265.5
30°	278.7	263.7	256.1	253.5	251.0	250.6
32.5°	259.4	250.0	247.2	243.4	237.6	237.1
35°	245.7	244.9	242.9	234.5	227.5	225.6
37.5°	237.4	245.5	235.4	218.9	213.8	213.4
40°	232.7	238.8	221.4	215.7	216.1	215.7
42.5°	221.6	228.0	221.8	219.1	221.0	221.4
45°	210.7	217.6	225.1	223.4	227.5	227.5
47.5°	204.5	215.1	224.8	224.8	231.0	233.3
50°	197.4	212.8	221.4	224.4	229.2	227.5
52.5°	197.0	209.0	216.3	221.8	223.9	222.1
55°	197.5	206.0	211.2	217.4	220.1	220.3
57.5°	198.4	204.3	207.8	210.7	218.5	218.5
60°	200.7	202.7	204.6	206.3	216.5	216.8
62.5°	204.3	201.1	200.7	202.3	215.5	214.5
65°	209.8	199.0	195.7	197.2	214.3	211.7
67.5°	217.2	195.7	189.3	190.4	213.4	207.8
70°	223.9	190.4	181.4	180.2	205.2	195.0
72.5°	224.7	184.2	170.3	167.1	178.3	168.5
75°	213.6	180.0	158.2	148.5	147.2	146.0
77.5°	192.5	177.5	144.2	128.9	126.3	127.2
80°	161.1	168.5	127.2	109.1	123.4	121.9
82.5°	120.4	148.8	108.1	96.6	96.4	85.2
85°	67.0	116.1	88.0	72.5	50.3	48.9
87.5°	18.8	64.5	61.7	41.0	27.9	29.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)