

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: P269822

Luminaire Tested: **GAP-AF-01-LED-U-T2R-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269822
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-7027-600
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3791.4 lumens
Efficiency: N/A
Efficacy: 111.5 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): 34
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



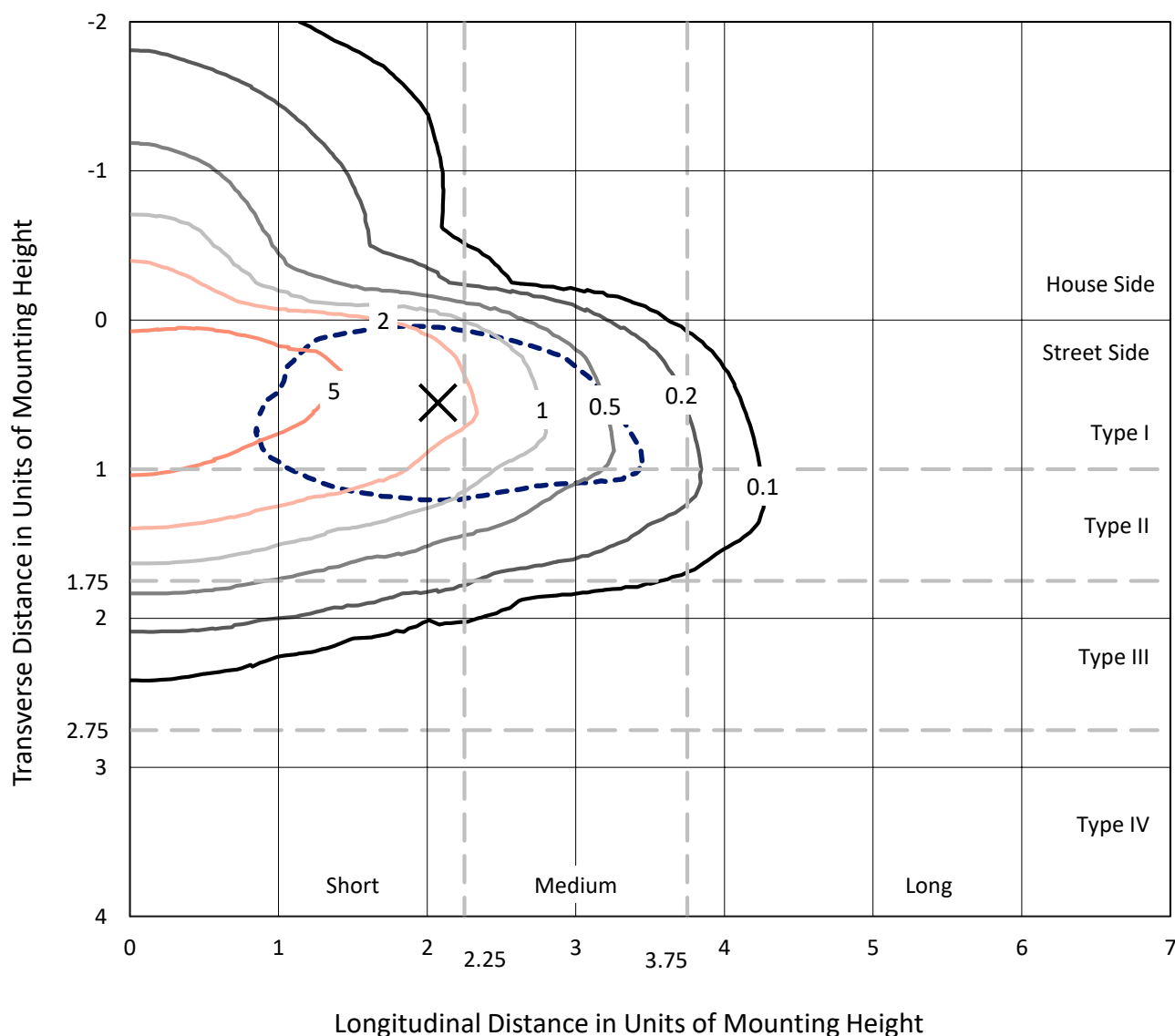
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

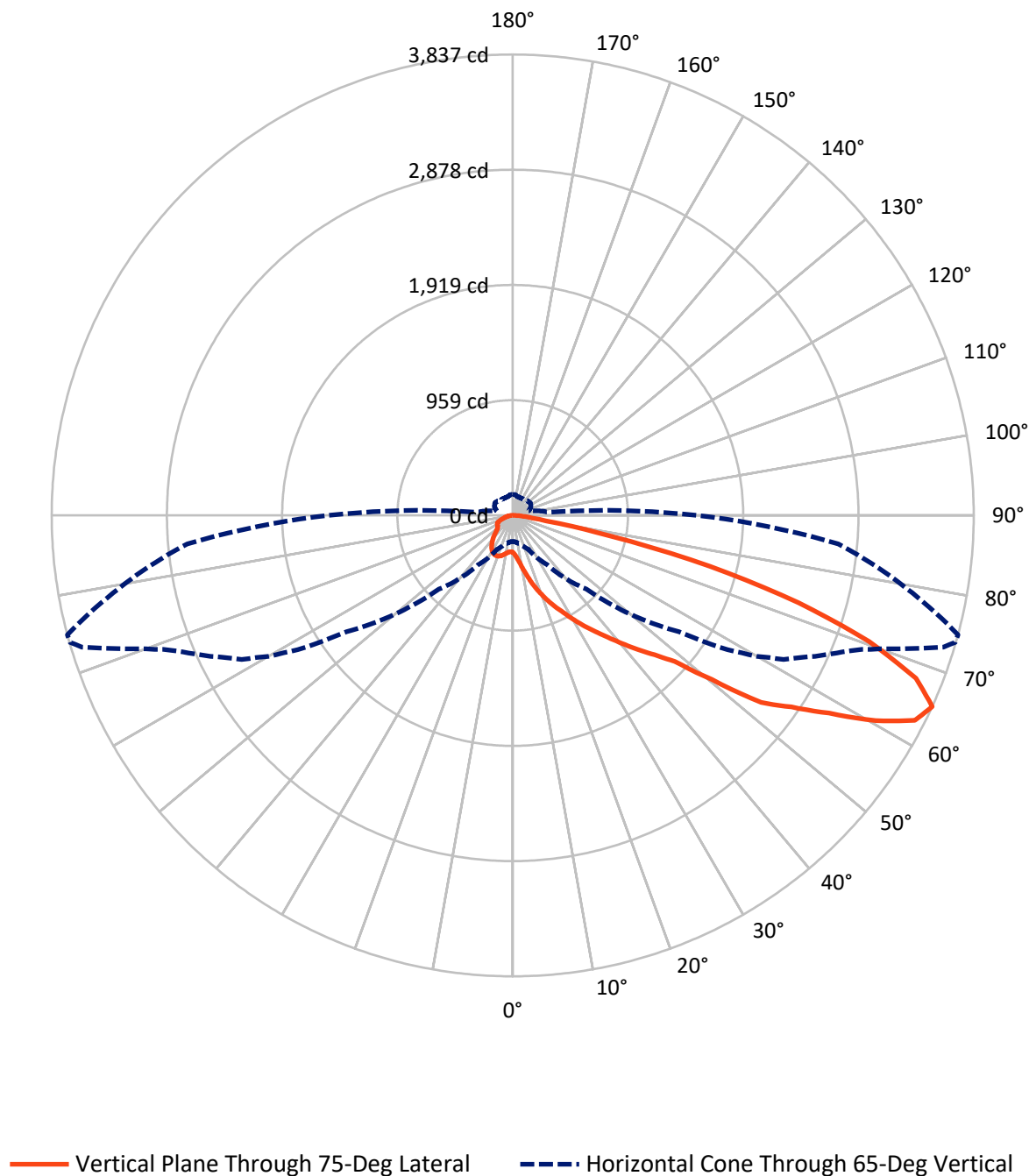


Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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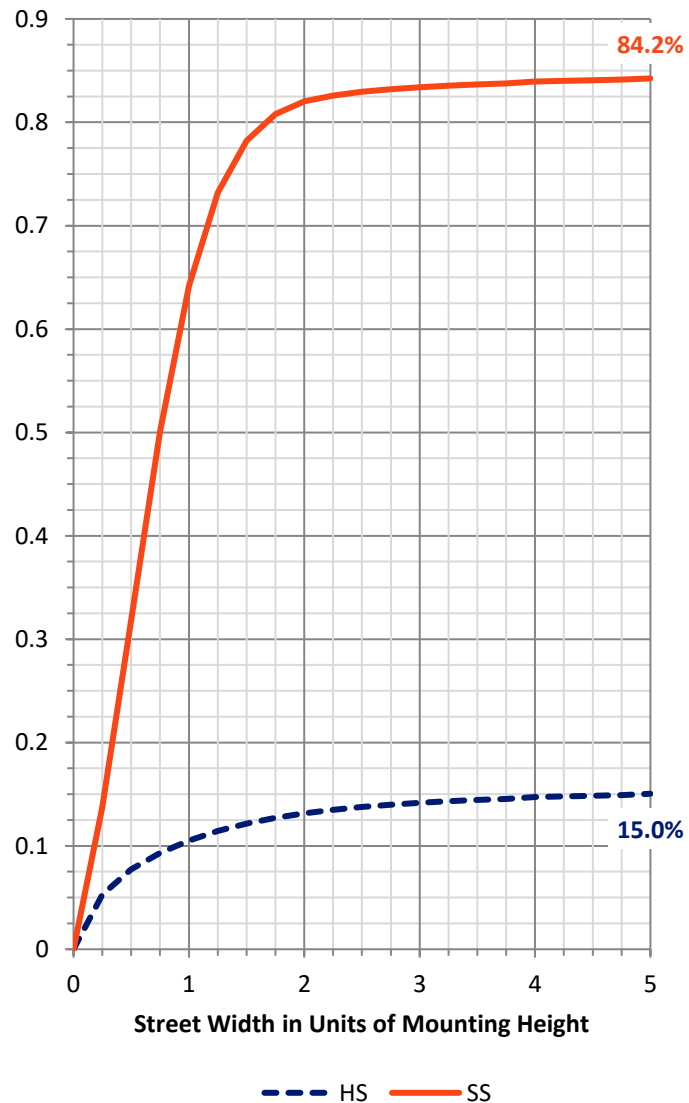
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	584.5	0.0	584.5
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	3206.9	0.0	3206.9
	% Fixture	84.6	0.0	84.6
Total	Lumens	3791.4	0.0	3791.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.1	1.0
10°-20°	148.8	3.9
20°-30°	305.3	8.1
30°-40°	513.7	13.5
40°-50°	709.7	18.7
50°-60°	886.0	23.4
60°-70°	797.3	21.0
70°-80°	334.2	8.8
80°-90°	58.4	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°	3791.4	100.0
0°-180°	3791.4	100.0

Coefficient of Utilization



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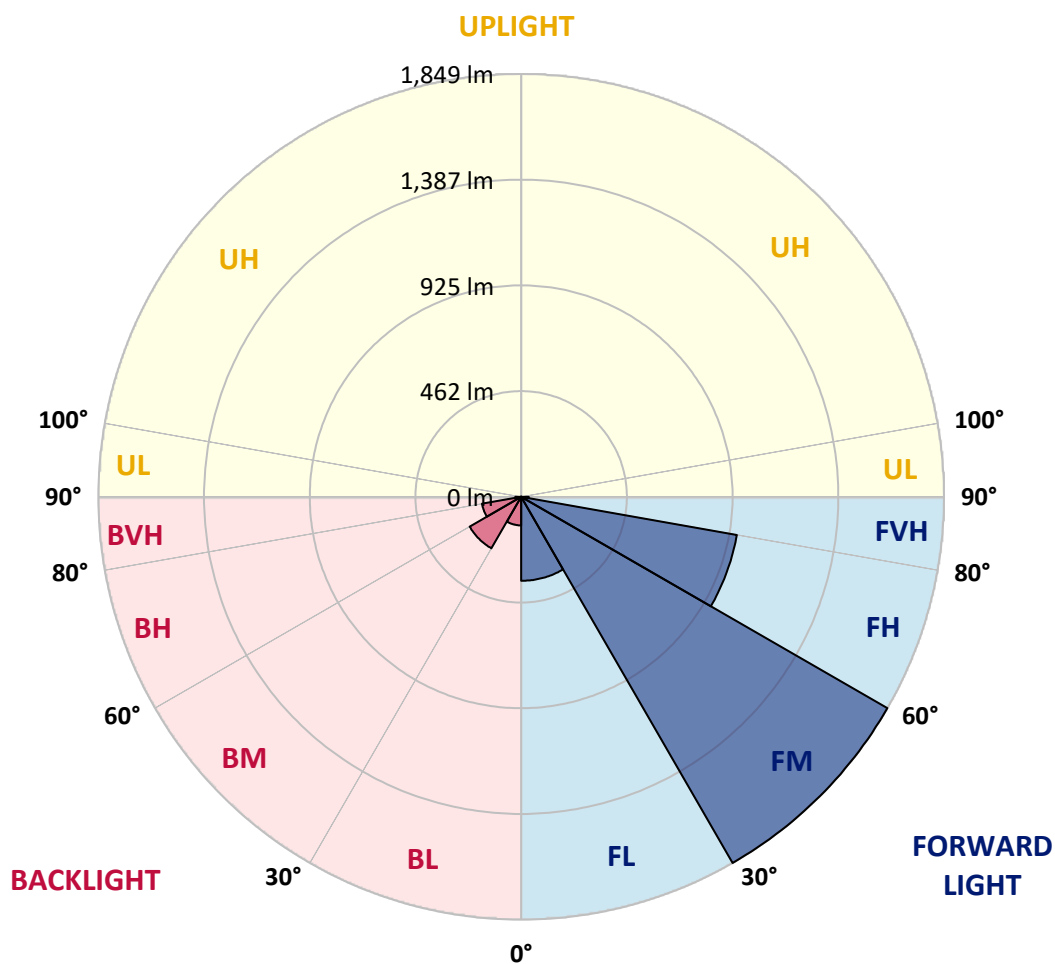
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	367.2	9.7			
FM	(30°-60°)	1849.2	48.8			
FH	(60°-80°)	957.7	25.3			G1/1800
FVH	(80°-90°)	32.8	0.9			G1/100
BL	(0°-30°)	125.0	3.3	B1/500		
BM	(30°-60°)	260.2	6.9	B1/1000		
BH	(60°-80°)	173.8	4.6	B1/500		G1/500
BVH	(80°-90°)	25.6	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°	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1
2.5°	391.2	386.9	388.0	380.8	372.0	360.5	347.9	347.6	347.9	346.6	341.9
5°	542.4	537.2	535.3	519.2	495.4	461.8	425.2	421.1	419.6	415.5	405.9
7.5°	652.9	650.1	647.0	634.7	613.3	575.5	526.3	518.0	509.9	507.8	497.1
10°	724.2	723.3	716.9	713.8	700.3	667.6	619.7	611.6	602.9	599.8	588.4
12.5°	780.4	780.3	777.3	778.1	766.4	742.8	701.4	694.1	687.7	678.3	670.2
15°	819.4	819.6	824.0	829.0	827.2	811.3	772.5	769.4	763.7	757.4	747.7
17.5°	851.4	852.2	857.0	866.1	875.9	874.7	844.0	841.4	836.4	827.7	822.7
20°	923.5	927.0	917.9	917.9	919.0	923.8	909.2	907.0	900.1	895.5	891.6
22.5°	1045.4	1049.3	1029.0	1008.3	988.0	973.4	958.8	961.4	956.7	953.5	951.1
25°	1203.5	1206.7	1173.8	1139.1	1097.8	1043.9	1007.4	1005.8	1003.3	1001.4	1000.4
27.5°	1352.6	1353.8	1322.8	1271.8	1223.9	1146.5	1056.9	1055.0	1051.9	1048.2	1045.0
30°	1480.0	1479.6	1447.7	1399.0	1347.7	1262.1	1132.3	1126.0	1117.1	1106.9	1098.9
32.5°	1590.4	1589.8	1554.8	1504.4	1450.6	1376.7	1235.2	1222.7	1208.7	1188.7	1176.7
35°	1677.2	1676.9	1643.8	1591.3	1529.5	1484.4	1353.2	1337.8	1320.1	1293.4	1274.9
37.5°	1710.1	1710.1	1691.6	1655.7	1601.0	1570.2	1484.4	1465.9	1446.8	1416.4	1395.6
40°	1690.9	1691.1	1695.1	1688.5	1662.0	1638.2	1606.9	1595.7	1579.4	1552.1	1530.4
42.5°	1626.4	1628.4	1654.6	1686.7	1700.0	1696.2	1715.5	1710.5	1699.0	1677.9	1660.6
45°	1544.7	1550.8	1579.6	1640.2	1710.6	1746.3	1806.4	1807.0	1804.9	1793.5	1780.3
47.5°	1432.5	1441.2	1479.1	1561.2	1685.8	1795.0	1898.8	1903.7	1908.2	1900.9	1894.7
50°	1283.7	1293.9	1350.6	1459.3	1635.5	1845.4	2073.5	2095.3	2115.8	2113.4	2117.5
52.5°	1124.0	1136.1	1205.5	1326.7	1548.7	1857.1	2185.0	2220.8	2256.5	2285.7	2316.8
55°	980.2	973.8	1043.2	1170.9	1406.2	1804.4	2285.4	2328.4	2368.3	2404.3	2441.1
57.5°	785.1	795.7	865.3	991.5	1217.7	1656.0	2354.5	2417.5	2474.7	2534.1	2586.5
60°	573.8	584.4	660.1	788.2	1012.8	1431.0	2301.7	2397.1	2488.9	2579.9	2651.0
62.5°	346.6	354.4	421.0	543.0	780.9	1164.2	2066.6	2192.0	2326.9	2435.7	2544.4
65°	215.8	220.2	244.8	311.9	501.6	869.1	1688.5	1825.0	1970.4	2108.4	2221.7
67.5°	176.5	178.3	182.6	197.1	275.5	566.7	1256.8	1377.7	1508.9	1642.5	1768.4
70°	158.8	157.7	157.7	158.6	176.5	304.7	822.8	901.5	1011.0	1127.1	1242.1
72.5°	143.4	142.3	140.3	137.6	144.1	185.9	425.3	484.7	563.4	666.7	777.0
75°	128.8	127.4	125.0	121.7	126.1	140.3	204.3	229.2	267.5	322.5	384.0
77.5°	113.7	112.0	109.9	107.3	113.0	109.1	119.7	128.6	143.4	160.9	184.2
80°	96.7	95.1	94.4	93.2	99.9	83.2	84.5	90.1	98.8	108.2	118.9
82.5°	75.7	75.7	78.6	79.1	86.6	59.7	63.2	68.0	72.6	77.6	82.6
85°	49.9	50.2	59.9	63.7	68.5	40.2	47.4	49.0	52.6	55.4	57.6
87.5°	15.6	16.9	36.7	40.6	39.3	22.7	29.0	29.9	32.2	34.2	36.1
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°	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1
2.5°	341.9	339.6	337.8	337.6	336.1	334.2	334.9	331.8	332.1	330.3	328.6
5°	402.0	400.6	393.4	391.4	386.0	382.6	382.0	375.0	374.0	369.8	365.4
7.5°	488.5	483.7	473.8	468.9	459.8	452.9	449.7	440.2	435.6	424.8	420.0
10°	579.0	573.2	560.8	554.0	545.2	534.2	528.4	514.5	509.1	499.3	487.4
12.5°	663.0	657.2	644.4	639.2	627.6	615.9	609.4	593.8	586.9	571.1	561.7
15°	740.8	734.9	723.8	718.4	706.6	697.2	688.6	673.1	664.8	650.2	637.9
17.5°	816.2	809.9	800.2	795.4	784.0	774.3	765.0	750.5	742.1	727.4	716.4
20°	886.2	881.4	874.5	868.0	856.8	847.9	836.9	824.3	812.1	801.3	790.9
22.5°	947.2	945.3	937.8	935.0	925.3	917.8	908.0	895.7	886.8	873.2	863.5
25°	999.8	999.3	995.6	994.8	988.0	980.7	978.6	968.4	960.3	948.3	938.2
27.5°	1045.0	1045.4	1044.5	1047.2	1045.4	1042.2	1042.4	1038.9	1034.2	1024.2	1015.4
30°	1095.3	1092.3	1094.0	1097.5	1098.6	1098.9	1104.9	1106.9	1106.5	1099.9	1095.7
32.5°	1166.3	1159.5	1153.2	1152.6	1156.3	1157.6	1167.7	1172.9	1177.4	1179.0	1179.7
35°	1256.9	1243.3	1230.1	1223.2	1217.1	1218.7	1225.8	1234.4	1244.2	1251.0	1259.1
37.5°	1371.1	1354.4	1331.2	1314.7	1310.5	1301.6	1306.2	1313.0	1322.7	1333.2	1347.2
40°	1509.4	1484.1	1458.0	1436.2	1424.4	1407.9	1407.6	1406.3	1412.3	1422.1	1441.9
42.5°	1642.6	1620.2	1592.5	1569.6	1554.1	1532.0	1527.6	1515.9	1518.6	1527.2	1546.4
45°	1767.2	1748.8	1731.9	1705.4	1692.2	1668.4	1660.8	1647.0	1639.3	1643.3	1662.6
47.5°	1888.1	1876.2	1858.7	1841.4	1831.4	1810.1	1800.4	1790.4	1780.6	1780.3	1800.4
50°	2123.6	2117.2	2096.5	2078.5	2083.3	2057.1	2058.7	2032.1	2044.3	2045.6	2087.8
52.5°	2344.8	2366.7	2382.1	2401.0	2413.1	2415.5	2423.5	2435.7	2450.1	2478.9	2517.9
55°	2471.4	2498.9	2515.0	2529.3	2553.0	2558.1	2571.5	2587.4	2600.1	2632.5	2665.7
57.5°	2622.1	2673.0	2697.8	2720.5	2752.5	2764.8	2787.1	2804.6	2821.0	2859.2	2899.5
60°	2714.9	2776.9	2827.3	2863.4	2903.4	2932.2	2966.1	2993.3	3032.0	3078.0	3137.8
62.5°	2641.0	2732.3	2799.2	2861.1	2915.4	2970.3	3019.1	3070.0	3128.8	3198.1	3291.1
65°	2347.4	2440.1	2554.8	2619.0	2691.0	2775.7	2849.7	2932.2	3012.3	3113.3	3250.6
67.5°	1889.7	1997.6	2126.4	2191.1	2273.9	2368.6	2451.4	2552.3	2645.9	2768.1	2938.0
70°	1362.1	1501.5	1609.9	1677.6	1774.2	1871.6	1951.6	2068.9	2146.5	2271.8	2447.4
72.5°	862.5	972.4	1105.3	1190.6	1276.3	1374.9	1456.8	1558.0	1630.3	1744.5	1903.7
75°	463.7	544.8	661.5	742.4	834.3	918.6	1014.5	1082.3	1135.7	1226.0	1355.3
77.5°	217.3	266.6	325.7	388.0	450.3	515.2	578.4	633.3	656.3	708.0	784.2
80°	132.0	148.0	165.1	184.3	210.4	231.4	259.2	279.3	280.7	297.0	320.3
82.5°	88.2	94.1	99.3	104.1	110.8	115.9	121.9	128.8	131.7	135.5	143.0
85°	60.1	63.1	64.0	67.2	66.5	68.2	70.5	72.9	74.1	73.9	77.3
87.5°	37.0	38.4	39.2	39.9	39.3	38.5	39.6	41.0	41.3	40.2	40.6
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°	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1
2.5°	329.0	327.3	325.7	324.6	324.3	314.8	310.6	307.9	302.2	297.6	293.7
5°	362.8	359.4	356.7	353.6	351.7	327.7	318.9	312.8	302.8	296.8	291.4
7.5°	417.4	407.9	402.4	396.1	390.8	347.3	332.7	323.2	309.1	301.3	295.3
10°	479.3	469.5	460.7	450.9	442.5	373.2	352.0	337.4	318.9	308.7	300.7
12.5°	548.4	538.8	527.7	515.2	504.5	406.4	376.8	355.9	330.5	316.9	305.7
15°	630.2	613.1	599.6	585.2	572.7	445.7	405.8	376.7	343.0	324.5	309.3
17.5°	706.0	688.0	669.7	657.2	642.6	490.0	434.8	397.9	353.2	329.3	310.2
20°	780.1	760.5	744.8	727.8	712.6	536.1	466.0	416.5	359.9	329.5	305.7
22.5°	845.5	833.2	815.7	797.3	782.0	582.0	495.0	432.4	362.3	325.4	297.7
25°	919.8	906.7	885.3	869.7	852.6	628.9	523.5	444.5	360.8	317.6	285.5
27.5°	999.0	984.7	962.7	946.5	925.7	677.4	549.8	453.4	355.5	305.1	269.2
30°	1081.7	1068.7	1047.0	1030.6	1009.7	729.0	579.0	459.3	344.7	287.6	250.2
32.5°	1170.6	1159.6	1138.2	1121.1	1098.6	784.8	606.1	461.0	328.4	267.1	230.1
35°	1254.9	1247.3	1229.3	1213.3	1190.0	837.5	635.1	460.1	309.0	244.3	211.8
37.5°	1350.0	1345.4	1336.4	1316.1	1287.6	909.2	669.7	456.3	285.3	222.1	197.7
40°	1451.1	1451.4	1441.8	1427.9	1401.4	996.0	711.0	449.1	259.5	202.3	185.1
42.5°	1558.2	1563.8	1559.1	1549.2	1523.7	1083.5	760.3	440.0	234.4	183.1	172.5
45°	1681.0	1687.7	1695.0	1680.4	1655.7	1199.1	825.4	428.3	207.2	167.1	163.9
47.5°	1822.7	1833.4	1839.8	1840.0	1815.2	1342.3	930.9	421.3	183.3	156.3	159.7
50°	2121.3	2124.9	2140.0	2166.6	2147.6	1673.8	1115.2	417.1	166.8	149.7	156.7
52.5°	2551.8	2589.5	2615.8	2614.0	2588.1	1884.4	1216.8	394.9	157.3	147.1	155.2
55°	2727.3	2774.1	2822.8	2835.8	2815.6	2063.9	1312.8	372.5	152.5	148.9	155.8
57.5°	2960.9	3039.9	3106.8	3134.9	3105.9	2293.8	1439.1	360.8	151.2	153.8	159.2
60°	3233.8	3331.5	3419.4	3470.1	3470.1	2558.1	1570.1	356.1	149.1	160.9	164.8
62.5°	3409.2	3552.5	3685.3	3759.4	3757.3	2741.9	1628.2	339.5	144.6	165.9	172.8
65°	3409.8	3580.4	3749.5	3832.9	3837.2	2719.3	1532.1	299.9	136.5	166.7	180.6
67.5°	3125.7	3307.4	3504.6	3597.8	3619.4	2503.2	1326.3	246.6	122.9	159.4	183.6
70°	2639.8	2817.4	3018.7	3110.2	3148.4	2134.0	1068.4	190.0	105.7	143.8	177.7
72.5°	2079.8	2253.8	2394.0	2460.8	2490.7	1631.1	777.9	143.5	86.6	121.1	161.7
75°	1472.4	1603.0	1677.6	1692.4	1697.2	983.3	472.7	106.8	71.4	94.2	136.5
77.5°	831.0	887.0	881.0	887.5	832.3	379.5	205.8	76.4	58.8	71.7	105.9
80°	324.5	334.4	314.2	307.9	282.4	141.3	90.8	53.3	47.0	54.2	74.1
82.5°	143.0	147.7	143.4	144.4	138.2	72.9	54.3	38.5	35.9	39.6	49.1
85°	78.8	80.2	79.9	82.1	78.8	29.0	25.8	23.6	25.2	26.9	31.6
87.5°	38.4	38.7	37.5	39.4	38.2	14.7	12.8	13.5	14.7	15.1	15.1
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):

	135°	145°	155°	165°	175°	180°
0°	308.1	308.1	308.1	308.1	308.1	308.1
2.5°	291.1	289.7	289.9	289.4	288.7	288.7
5°	288.5	287.1	287.1	286.7	285.9	286.1
7.5°	291.1	288.7	287.8	286.6	285.3	285.3
10°	293.9	289.9	287.3	285.1	283.5	283.5
12.5°	296.1	289.7	285.5	282.6	281.0	281.0
15°	296.8	288.4	282.6	279.3	277.8	277.7
17.5°	294.5	283.5	276.6	272.5	270.7	270.3
20°	287.3	274.7	266.3	261.9	259.3	258.4
22.5°	276.6	262.1	252.3	247.7	244.3	243.9
25°	261.4	246.0	236.3	231.9	230.1	229.5
27.5°	243.9	229.5	221.3	218.4	216.9	216.6
30°	227.2	215.0	208.9	206.7	204.8	204.5
32.5°	211.6	203.8	201.5	198.4	193.9	193.2
35°	200.4	199.8	198.2	191.2	185.6	184.0
37.5°	193.7	200.3	192.0	178.6	174.5	174.1
40°	189.7	194.8	180.5	175.9	176.2	175.9
42.5°	180.6	185.9	180.9	178.8	180.2	180.5
45°	171.8	177.4	183.6	182.1	185.6	185.6
47.5°	166.7	175.3	183.4	183.4	188.5	190.3
50°	160.9	173.6	180.5	183.1	186.9	185.6
52.5°	160.5	170.5	176.3	180.9	182.6	181.1
55°	161.2	168.0	172.2	177.2	179.4	179.7
57.5°	161.9	166.5	169.4	171.8	178.3	178.3
60°	163.8	165.3	166.8	168.2	176.5	176.7
62.5°	166.5	164.0	163.8	164.8	175.7	175.0
65°	171.0	162.2	159.4	160.7	174.8	172.7
67.5°	177.1	159.4	154.2	155.2	174.1	169.4
70°	182.6	155.2	148.0	147.0	167.3	159.0
72.5°	183.3	150.1	138.9	136.3	145.3	137.5
75°	174.2	146.9	129.0	121.1	120.1	118.9
77.5°	157.1	144.8	117.6	105.1	103.0	103.8
80°	131.3	137.5	103.8	89.0	100.7	99.4
82.5°	98.2	121.4	88.2	78.8	78.6	69.4
85°	54.5	94.6	71.8	59.1	41.1	39.9
87.5°	15.2	52.6	50.2	33.3	22.7	23.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)