

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: EPHESUS

Report Number: P628589

Luminaire Tested: **EPH-VN-07-E-930-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628589
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-07-E-930-U-LAM
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
LAMBERTIAN distribution lens
Light Source: (112) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	37182.8 lumens	Max Intensity:	12120.1 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	69.8 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

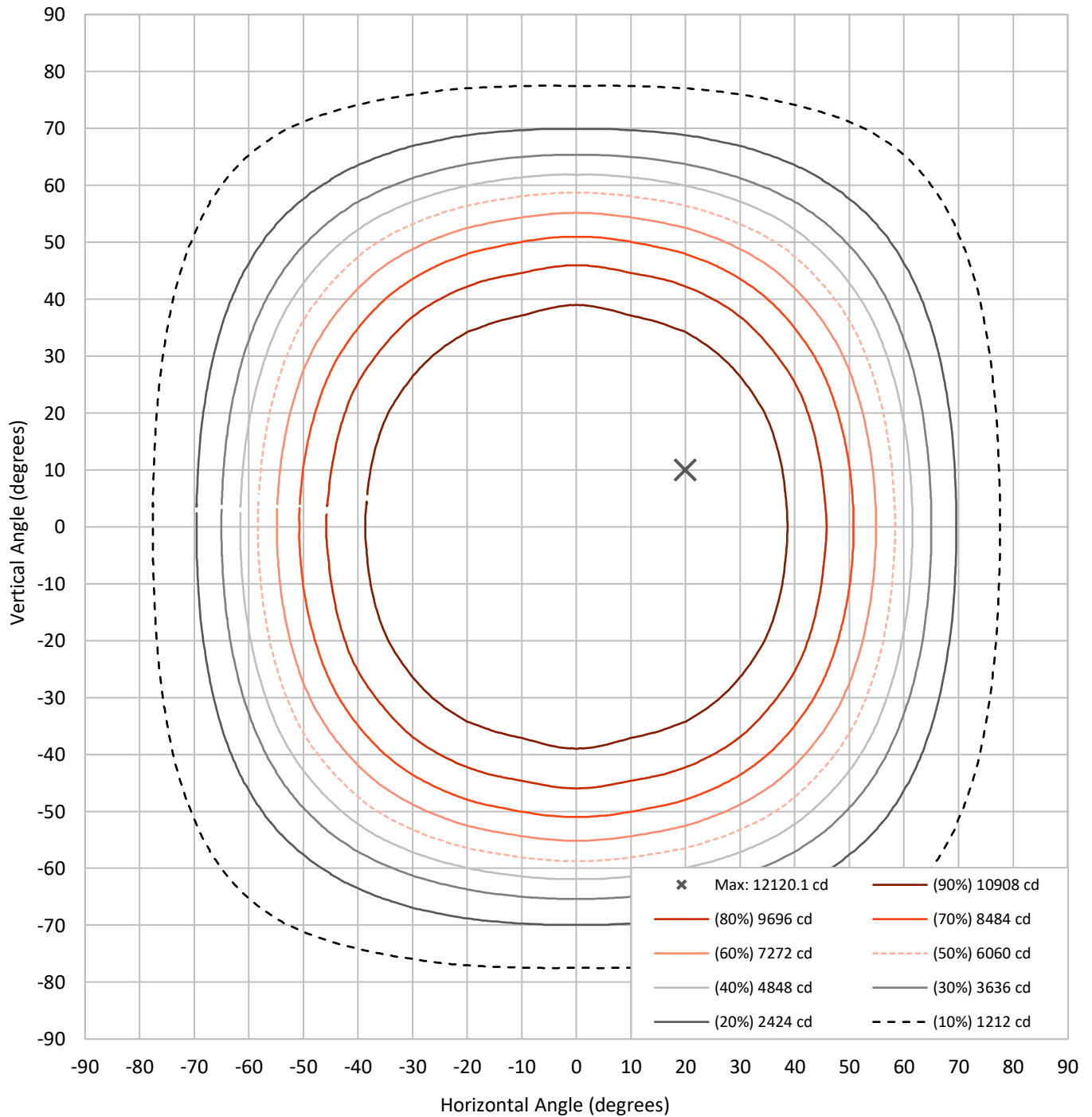
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	22816.1 lumens	Field Lumens:	27352.7 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 532.7
Input Voltage (V): 120
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: 25 FT



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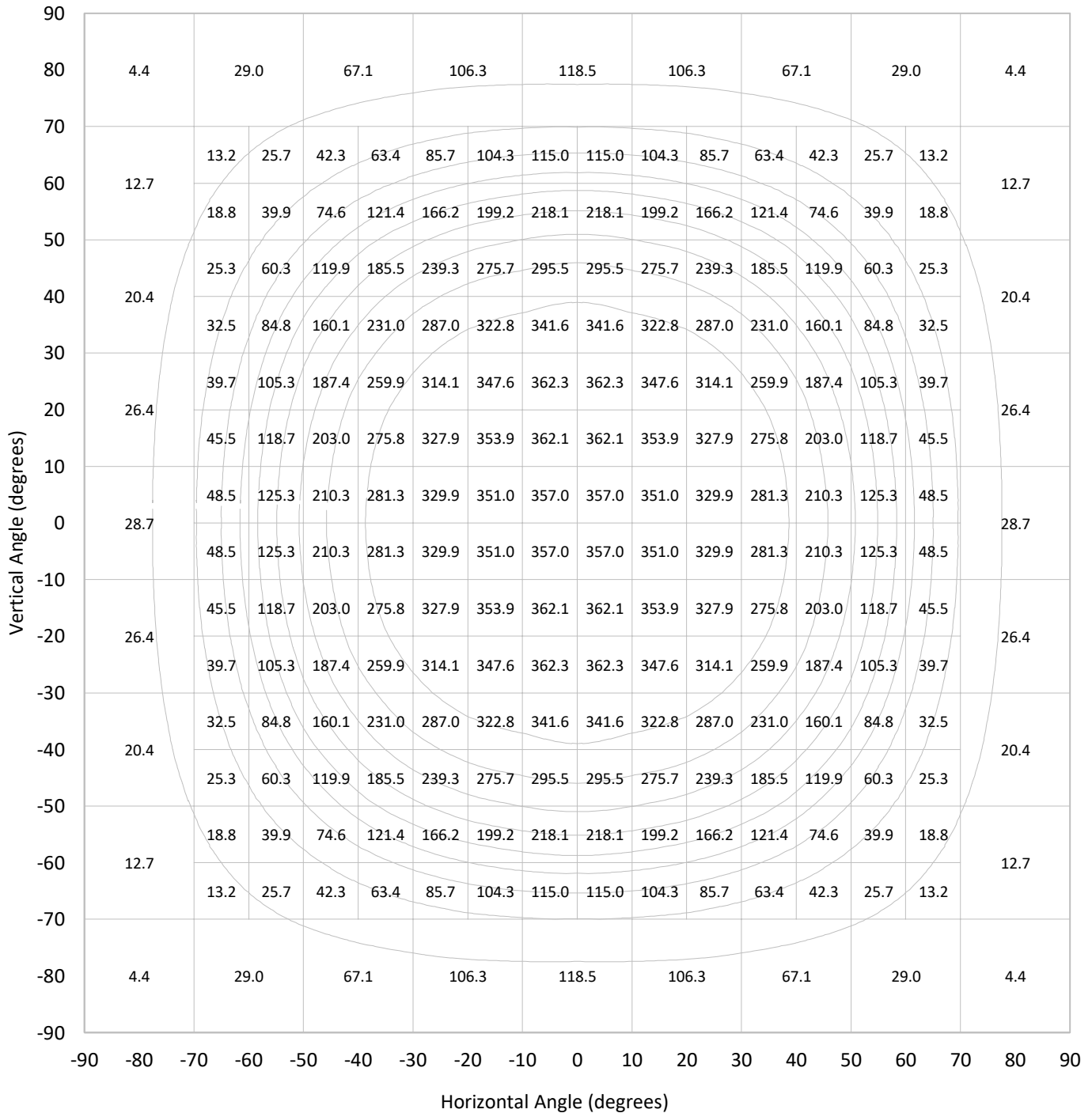
Iso-Candela Plot





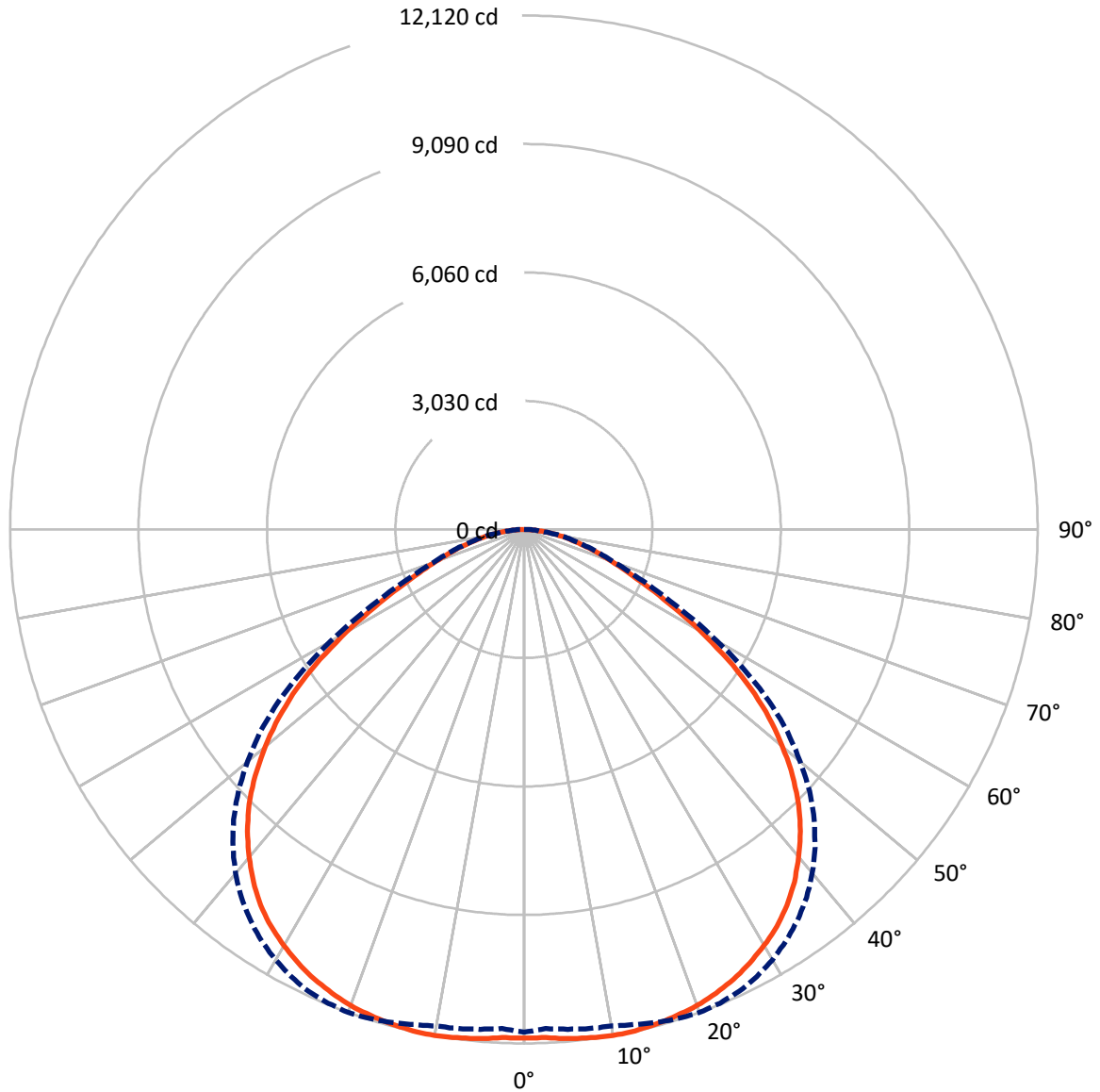
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Lumen Table



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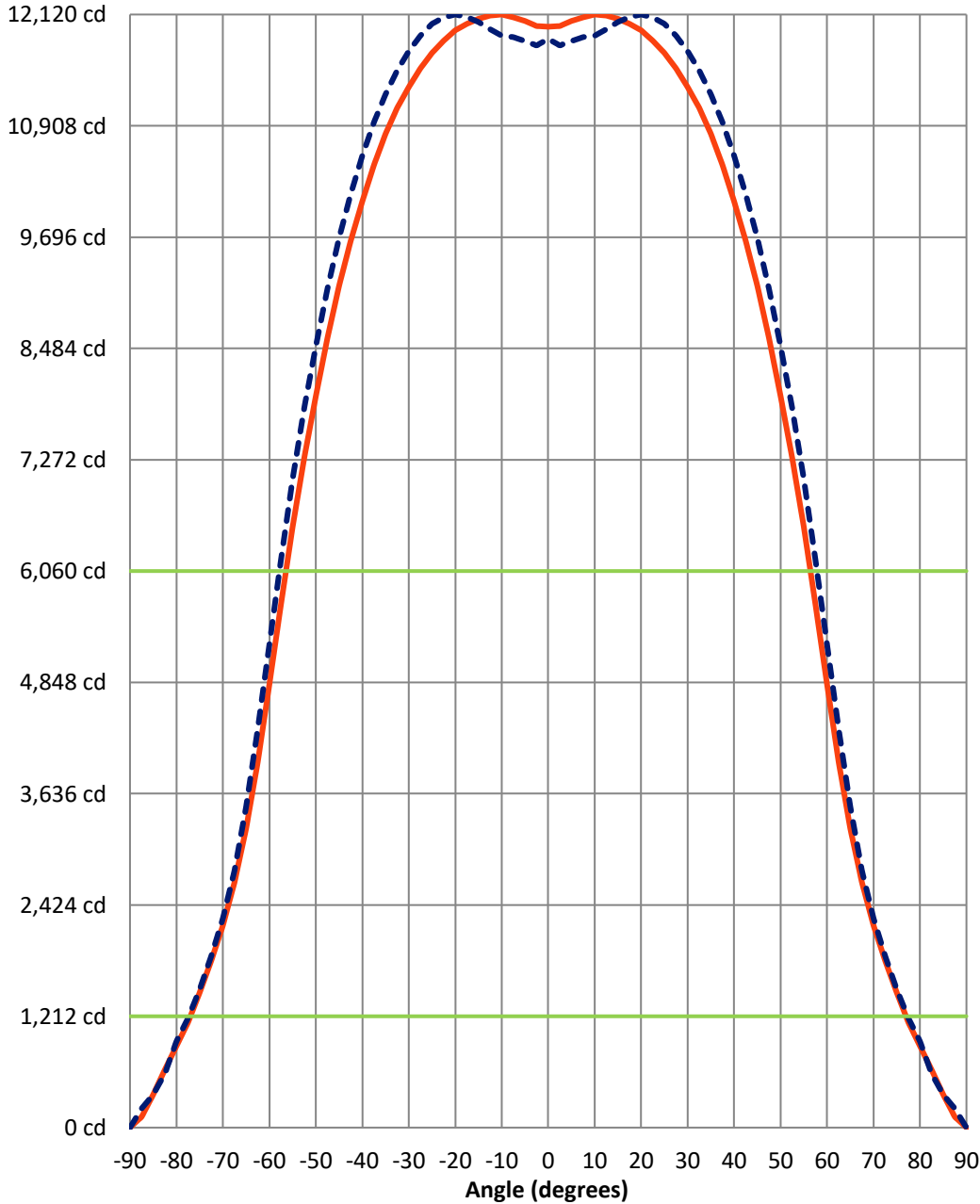
Luminous Intensity Polar Plot



— Vertical Distribution Through 20-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 115.7°
 V Angle: 112.9°
 Lumens: 22816.1
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 27352.7
 Efficiency: 73.6%

Spill:
 Lumens: 9830.2
 Efficiency: 26.4%

- Vertical Distribution through 20-Deg
- - - Horizontal Distribution through 10-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	97.8	105.6	109.5	113.5	117.4	121.3	125.2	121.3	117.4	117.4	113.5
85°	262.1	269.9	273.9	301.2	328.6	344.3	363.8	359.9	359.9	356.0	352.1
82.5°	524.2	547.7	567.3	594.7	610.3	633.8	649.4	637.7	629.9	614.2	602.5
80°	931.1	938.9	942.8	946.8	927.2	923.3	915.5	903.7	888.1	868.5	849.0
77.5°	1185.4	1193.2	1201.1	1193.2	1189.3	1185.4	1173.7	1161.9	1146.3	1130.6	1107.2
75°	1568.8	1568.8	1568.8	1557.1	1549.2	1537.5	1517.9	1498.4	1471.0	1439.7	1404.5
72.5°	1975.7	1971.8	1967.9	1944.4	1924.8	1901.3	1874.0	1850.5	1819.2	1784.0	1737.0
70°	2402.1	2409.9	2413.8	2382.6	2359.1	2327.8	2292.6	2249.5	2202.6	2151.7	2085.2
67.5°	2988.9	2981.1	2973.3	2930.3	2899.0	2855.9	2805.1	2742.5	2672.1	2593.8	2499.9
65°	3716.6	3728.4	3704.9	3661.9	3603.2	3532.7	3454.5	3364.5	3258.9	3141.5	3008.5
62.5°	4596.9	4616.4	4589.1	4534.3	4459.9	4366.1	4256.5	4127.4	3982.7	3818.3	3654.0
60°	5598.4	5594.5	5543.6	5469.3	5371.5	5254.1	5132.9	4992.0	4827.7	4636.0	4436.5
57.5°	6517.8	6510.0	6447.4	6373.0	6275.2	6150.0	6020.9	5872.3	5700.1	5496.7	5265.9
55°	7343.3	7335.4	7272.8	7194.6	7092.9	6967.7	6850.3	6709.5	6541.3	6326.1	6079.6
52.5°	8074.9	8078.8	8024.0	7937.9	7828.4	7707.1	7593.7	7452.8	7292.4	7077.2	6838.6
50°	8747.8	8743.8	8685.2	8606.9	8505.2	8387.8	8274.4	8133.5	7965.3	7758.0	7527.1
47.5°	9373.7	9365.9	9299.4	9213.3	9107.7	9006.0	8900.3	8775.1	8599.1	8391.7	8160.9
45°	9898.0	9882.3	9815.8	9733.6	9631.9	9541.9	9448.1	9354.2	9166.4	8974.7	8755.6
42.5°	10347.9	10344.0	10277.4	10195.3	10093.6	10015.3	9929.3	9811.9	9655.4	9479.3	9264.2
40°	10778.2	10746.9	10680.4	10602.2	10508.3	10441.8	10355.7	10238.3	10085.7	9913.6	9706.3
37.5°	11099.0	11102.9	11032.5	10946.4	10864.3	10801.7	10723.4	10613.9	10480.9	10312.7	10105.3
35°	11404.2	11384.6	11325.9	11251.6	11177.3	11106.8	11024.7	10930.8	10821.2	10664.8	10469.1
32.5°	11603.7	11631.1	11560.7	11482.4	11439.4	11384.6	11298.5	11200.7	11102.9	10946.4	10770.4
30°	11822.8	11799.3	11744.5	11678.0	11646.7	11611.5	11537.2	11443.3	11329.8	11189.0	11024.7
27.5°	11975.4	11963.6	11897.1	11834.5	11818.9	11787.6	11728.9	11646.7	11533.3	11396.3	11243.8
25°	12041.9	12049.7	11987.1	11951.9	11951.9	11932.3	11885.4	11815.0	11701.5	11576.3	11427.6
22.5°	12073.2	12065.3	12022.3	12014.5	12034.0	12018.4	11998.8	11936.2	11834.5	11732.8	11607.6
20°	12092.7	12038.0	11998.8	12030.1	12053.6	12049.7	12034.0	11994.9	11948.0	11861.9	11752.4
17.5°	12049.7	12014.5	11967.5	12014.5	12065.3	12069.2	12053.6	12030.1	12018.4	11963.6	11865.8
15°	11944.1	11916.7	11924.5	11971.4	12030.1	12049.7	12061.4	12088.8	12073.2	12030.1	11944.1
12.5°	11873.6	11838.4	11873.6	11920.6	11951.9	11963.6	12057.5	12108.4	12108.4	12069.2	12014.5
10°	11854.1	11783.7	11830.6	11873.6	11889.3	11959.7	12038.0	12092.7	12120.1	12088.8	12018.4
7.5°	11815.0	11768.0	11787.6	11807.1	11897.1	11948.0	11991.0	12049.7	12088.8	12084.9	12022.3
5°	11795.4	11736.7	11744.5	11826.7	11889.3	11924.5	11940.1	11991.0	12049.7	12061.4	12014.5
2.5°	11744.5	11717.1	11775.8	11783.7	11830.6	11858.0	11873.6	11920.6	11994.9	12022.3	12002.7
0°	11717.1	11678.0	11638.9	11670.2	11748.4	11807.1	11830.6	11901.0	11987.1	12014.5	11971.4



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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	109.5	105.6	101.7	97.8	101.7	101.7	101.7	97.8	101.7	97.8	97.8
85°	340.4	324.7	313.0	297.3	281.7	269.9	254.3	238.6	234.7	230.8	223.0
82.5°	586.8	567.3	547.7	524.2	500.8	473.4	446.0	414.7	406.9	399.0	387.3
80°	825.5	798.1	770.7	743.3	719.9	692.5	661.2	626.0	602.5	582.9	559.4
77.5°	1075.9	1036.7	997.6	950.7	923.3	895.9	864.6	829.4	794.2	762.9	727.7
75°	1361.5	1318.4	1279.3	1232.4	1181.5	1130.6	1079.8	1032.8	982.0	935.0	888.1
72.5°	1678.3	1615.8	1553.2	1494.5	1431.9	1369.3	1302.8	1240.2	1177.6	1115.0	1048.5
70°	2010.9	1932.6	1854.4	1776.2	1694.0	1611.8	1533.6	1455.4	1377.1	1295.0	1220.6
67.5°	2402.1	2312.1	2210.4	2100.9	1979.6	1874.0	1772.2	1678.3	1584.5	1490.6	1396.7
65°	2891.1	2766.0	2629.0	2480.4	2339.5	2198.7	2050.0	1909.2	1799.6	1690.1	1584.5
62.5°	3493.6	3317.6	3125.9	2934.2	2762.0	2578.2	2406.0	2222.2	2050.0	1893.5	1764.4
60°	4213.5	3974.8	3740.1	3493.6	3255.0	3004.6	2785.5	2558.6	2343.4	2151.7	1963.9
57.5°	5007.7	4729.9	4448.2	4147.0	3822.3	3528.8	3231.5	2934.2	2679.9	2425.6	2214.3
55°	5813.6	5520.2	5203.3	4862.9	4506.9	4131.3	3728.4	3395.8	3047.6	2750.3	2476.4
52.5°	6580.4	6275.2	5946.6	5633.6	5207.2	4776.8	4334.8	3896.6	3489.7	3110.2	2777.7
50°	7265.0	6967.7	6650.8	6287.0	5891.8	5434.1	4941.2	4448.2	3967.0	3521.0	3106.3
47.5°	7891.0	7601.5	7284.6	6920.7	6560.8	6052.2	5555.4	5011.6	4475.6	3963.1	3478.0
45°	8477.8	8184.4	7855.8	7507.6	7092.9	6639.1	6126.6	5578.8	5003.8	4428.7	3869.2
42.5°	9009.9	8716.5	8383.9	8024.0	7613.2	7163.3	6666.5	6114.8	5535.8	4909.9	4295.6
40°	9475.4	9189.8	8869.0	8493.5	8110.1	7636.7	7147.7	6623.4	6024.8	5395.0	4718.2
37.5°	9882.3	9616.3	9299.4	8927.7	8520.9	8098.3	7593.7	7069.4	6529.5	5844.9	5152.4
35°	10242.2	9995.8	9671.0	9318.9	8919.9	8473.9	8000.5	7488.0	6905.1	6263.5	5590.6
32.5°	10555.2	10304.8	10007.5	9655.4	9268.1	8849.5	8364.4	7847.9	7296.3	6643.0	5911.4
30°	10821.2	10578.7	10297.0	9964.5	9592.8	9178.1	8704.7	8184.4	7621.0	6971.6	6247.8
27.5°	11052.1	10821.2	10547.4	10238.3	9882.3	9483.3	9006.0	8481.7	7906.6	7280.7	6556.9
25°	11251.6	11028.6	10774.3	10480.9	10128.8	9737.6	9287.6	8739.9	8164.8	7535.0	6819.0
22.5°	11431.6	11216.4	10962.1	10676.5	10355.7	9964.5	9510.6	8966.8	8383.9	7761.9	7057.7
20°	11592.0	11392.4	11142.0	10848.6	10527.8	10132.7	9682.8	9166.4	8579.5	7969.2	7272.8
17.5°	11721.1	11545.0	11294.6	10985.6	10664.8	10281.4	9843.2	9369.8	8747.8	8145.3	7452.8
15°	11811.0	11638.9	11412.0	11099.0	10786.0	10406.5	9968.4	9479.3	8900.3	8286.1	7601.5
12.5°	11873.6	11689.8	11478.5	11189.0	10876.0	10500.4	10074.0	9592.8	9029.4	8411.3	7730.6
10°	11889.3	11721.1	11509.8	11251.6	10946.4	10582.6	10164.0	9686.7	9135.1	8509.1	7836.2
7.5°	11897.1	11736.7	11545.0	11298.5	10997.3	10645.2	10230.5	9761.0	9213.3	8591.3	7914.5
5°	11893.2	11740.6	11568.5	11329.8	11028.6	10680.4	10273.5	9811.9	9268.1	8646.0	7973.1
2.5°	11881.5	11744.5	11584.1	11353.3	11063.8	10719.5	10316.6	9870.6	9326.8	8693.0	8020.1
0°	11912.8	11795.4	11592.0	11345.5	11071.6	10719.5	10312.7	9878.4	9334.6	8689.1	8016.2



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CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	97.8	93.9	93.9	90.0	86.1	82.2	74.3	70.4	62.6	50.9	39.1
85°	211.3	199.5	187.8	180.0	172.1	164.3	152.6	140.8	125.2	101.7	78.2
82.5°	371.7	348.2	324.7	297.3	273.9	250.4	230.8	211.3	187.8	152.6	117.4
80°	532.1	496.9	461.6	422.5	387.3	348.2	313.0	281.7	250.4	203.4	156.5
77.5°	692.5	645.5	594.7	547.7	496.9	446.0	395.1	352.1	305.2	250.4	195.6
75°	841.1	786.4	739.4	672.9	610.3	543.8	477.3	418.6	359.9	293.4	234.7
72.5°	989.8	919.4	852.9	790.3	719.9	637.7	563.4	489.0	414.7	336.5	266.0
70°	1138.5	1052.4	970.2	895.9	817.7	735.5	645.5	559.4	469.5	375.6	293.4
67.5°	1291.0	1193.2	1099.3	1005.4	915.5	821.6	727.7	629.9	524.2	414.7	324.7
65°	1459.3	1338.0	1224.5	1118.9	1013.3	911.6	805.9	700.3	582.9	457.7	352.1
62.5°	1627.5	1494.5	1361.5	1228.4	1111.1	997.6	884.2	766.8	637.7	504.7	379.5
60°	1807.5	1654.9	1502.3	1353.6	1208.9	1083.7	958.5	833.3	696.4	547.7	406.9
57.5°	2007.0	1823.1	1651.0	1482.7	1318.4	1169.8	1032.8	899.8	747.2	590.7	438.2
55°	2233.9	2007.0	1803.5	1615.8	1435.8	1255.8	1107.2	970.2	805.9	633.8	473.4
52.5°	2472.5	2210.4	1963.9	1752.7	1561.0	1357.5	1177.6	1025.0	864.6	676.8	504.7
50°	2750.3	2417.8	2143.9	1885.7	1670.5	1459.3	1251.9	1087.6	923.3	727.7	536.0
47.5°	3035.9	2668.1	2323.9	2042.2	1787.9	1557.1	1338.0	1142.4	978.1	774.6	567.3
45°	3368.4	2906.8	2527.3	2194.8	1901.3	1658.8	1424.1	1201.1	1025.0	821.6	598.6
42.5°	3689.2	3188.5	2738.6	2363.0	2030.5	1756.6	1502.3	1263.7	1072.0	868.5	626.0
40°	4068.7	3470.2	2942.0	2523.4	2159.6	1850.5	1580.5	1330.2	1115.0	911.6	653.3
37.5°	4432.6	3755.7	3188.5	2699.4	2284.7	1944.4	1658.8	1392.8	1154.1	954.6	688.6
35°	4792.5	4072.6	3423.2	2863.8	2413.8	2050.0	1737.0	1451.4	1193.2	989.8	719.9
32.5°	5136.8	4370.0	3661.9	3047.6	2554.7	2147.8	1807.5	1506.2	1232.4	1021.1	751.1
30°	5457.6	4651.6	3896.6	3235.4	2683.8	2237.8	1874.0	1561.0	1279.3	1048.5	782.4
27.5°	5751.0	4925.5	4131.3	3411.5	2805.1	2320.0	1944.4	1611.8	1318.4	1075.9	809.8
25°	6017.0	5172.0	4346.5	3571.9	2914.6	2409.9	2010.9	1662.7	1353.6	1099.3	833.3
22.5°	6267.4	5398.9	4542.1	3732.3	3047.6	2499.9	2073.5	1709.6	1388.8	1122.8	856.8
20°	6486.5	5606.2	4729.9	3892.7	3165.0	2582.1	2128.3	1752.7	1420.1	1138.5	880.3
17.5°	6662.5	5790.1	4898.1	4033.5	3266.7	2652.5	2175.2	1791.8	1447.5	1158.0	895.9
15°	6819.0	5946.6	5039.0	4154.8	3356.7	2711.2	2218.2	1823.1	1471.0	1169.8	915.5
12.5°	6952.0	6079.6	5160.2	4260.4	3434.9	2762.0	2253.4	1846.6	1490.6	1181.5	927.2
10°	7061.6	6185.2	5262.0	4342.6	3497.5	2801.2	2280.8	1870.0	1506.2	1193.2	938.9
7.5°	7143.7	6263.5	5336.3	4413.0	3548.4	2828.5	2304.3	1885.7	1521.9	1201.1	958.5
5°	7206.3	6330.0	5395.0	4459.9	3587.5	2867.7	2331.7	1905.3	1537.5	1208.9	958.5
2.5°	7253.3	6384.8	5441.9	4499.1	3618.8	2859.8	2331.7	1901.3	1537.5	1208.9	954.6
0°	7245.5	6388.7	5438.0	4499.1	3618.8	2852.0	2331.7	1897.4	1537.5	1208.9	954.6



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	27.4	19.6	7.8	0.0
85°	58.7	39.1	19.6	0.0
82.5°	86.1	54.8	27.4	0.0
80°	113.5	74.3	35.2	0.0
77.5°	144.8	93.9	46.9	0.0
75°	172.1	109.5	54.8	0.0
72.5°	199.5	129.1	62.6	0.0
70°	223.0	144.8	70.4	0.0
67.5°	246.5	164.3	82.2	0.0
65°	266.0	180.0	90.0	0.0
62.5°	281.7	199.5	97.8	0.0
60°	301.2	215.2	105.6	0.0
57.5°	316.9	226.9	113.5	0.0
55°	332.5	234.7	121.3	0.0
52.5°	348.2	246.5	129.1	0.0
50°	363.8	258.2	136.9	0.0
47.5°	379.5	266.0	140.8	0.0
45°	403.0	277.8	148.7	0.0
42.5°	422.5	285.6	156.5	0.0
40°	442.1	293.4	160.4	0.0
37.5°	461.6	301.2	168.2	0.0
35°	481.2	309.1	172.1	0.0
32.5°	496.9	316.9	176.1	0.0
30°	512.5	324.7	180.0	0.0
27.5°	528.2	328.6	183.9	0.0
25°	539.9	336.5	187.8	0.0
22.5°	551.6	340.4	191.7	0.0
20°	559.4	344.3	195.6	0.0
17.5°	571.2	348.2	199.5	0.0
15°	575.1	352.1	207.3	0.0
12.5°	582.9	356.0	207.3	0.0
10°	586.8	359.9	207.3	0.0
7.5°	594.7	359.9	207.3	0.0
5°	590.7	359.9	207.3	0.0
2.5°	590.7	359.9	207.3	0.0
0°	586.8	359.9	207.3	0.0

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