

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: P628594

Luminaire Tested: **EPH-VN-06-E-935-U-LAM**

Issue Date: 01/11/2023

Test Information

Test Method: LM-79-2019
Report Number: P628594
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/11/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-06-E-935-U-LAM
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
LAMBERTIAN distribution lens
Light Source: (96) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

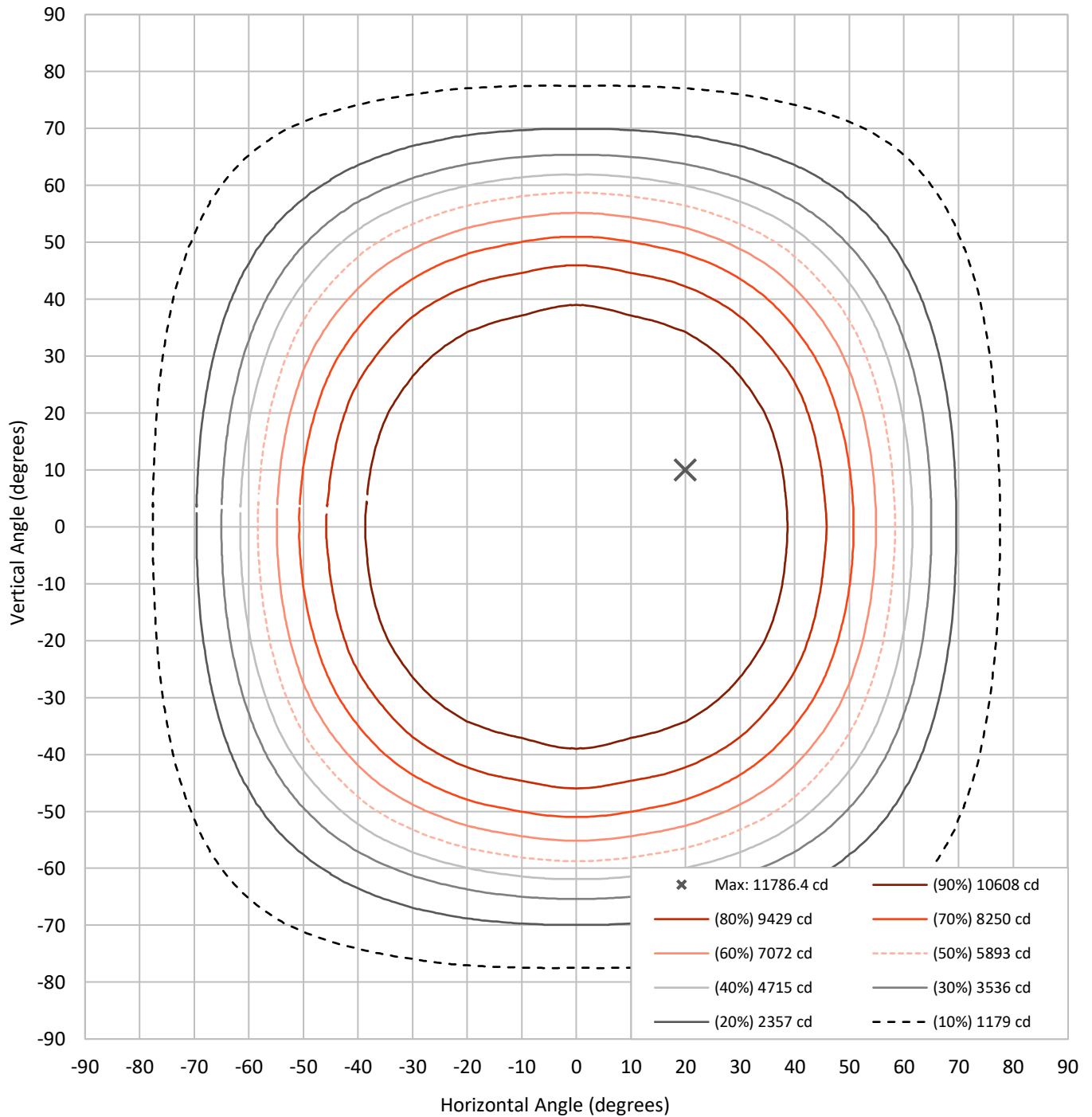
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	36159.1 lumens	Max Intensity:	11786.4 candela
Efficiency:	N/A	Max Intensity Angle:	20°H x 10°V
Efficacy:	77.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	115.7°H x 112.9°V	Field Angle (10%):	154.7°H x 154°V
Beam Lumens:	22188 lumens	Field Lumens:	26599.6 lumens
Beam Efficiency:	61.4%	Field Efficiency:	73.6%

Input Watts (W): 464.2
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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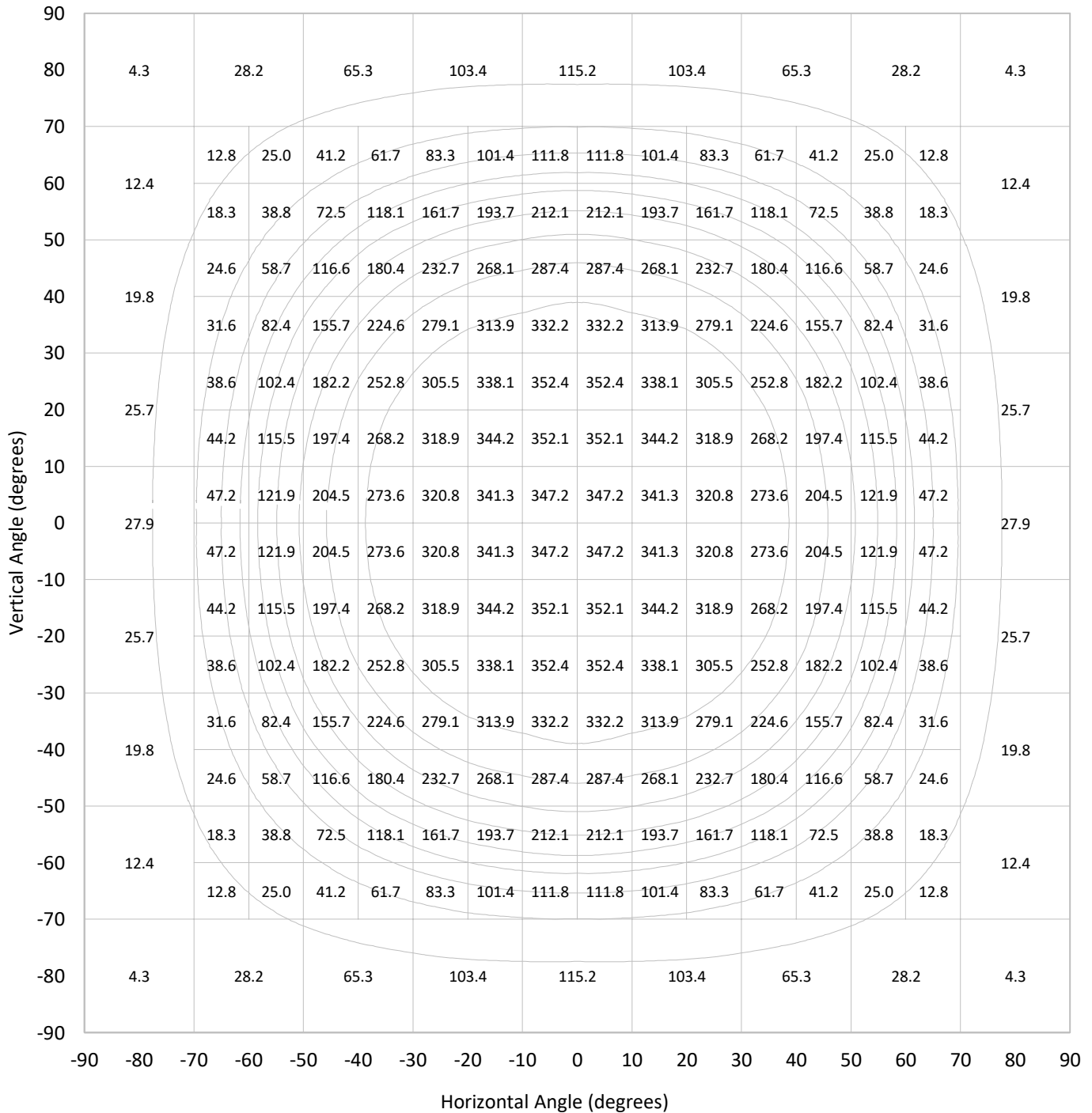
Iso-Candela Plot





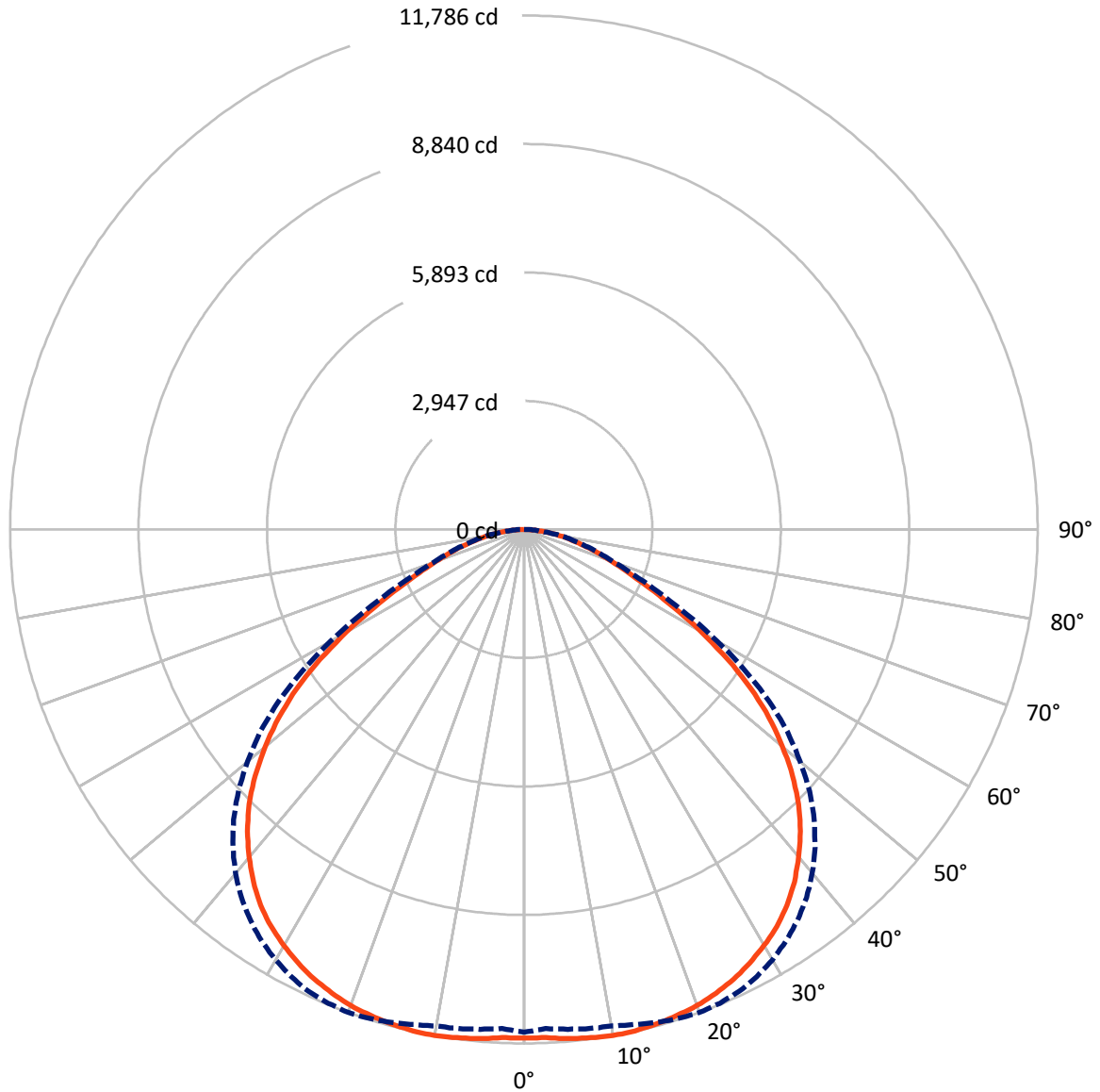
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Lumen Table



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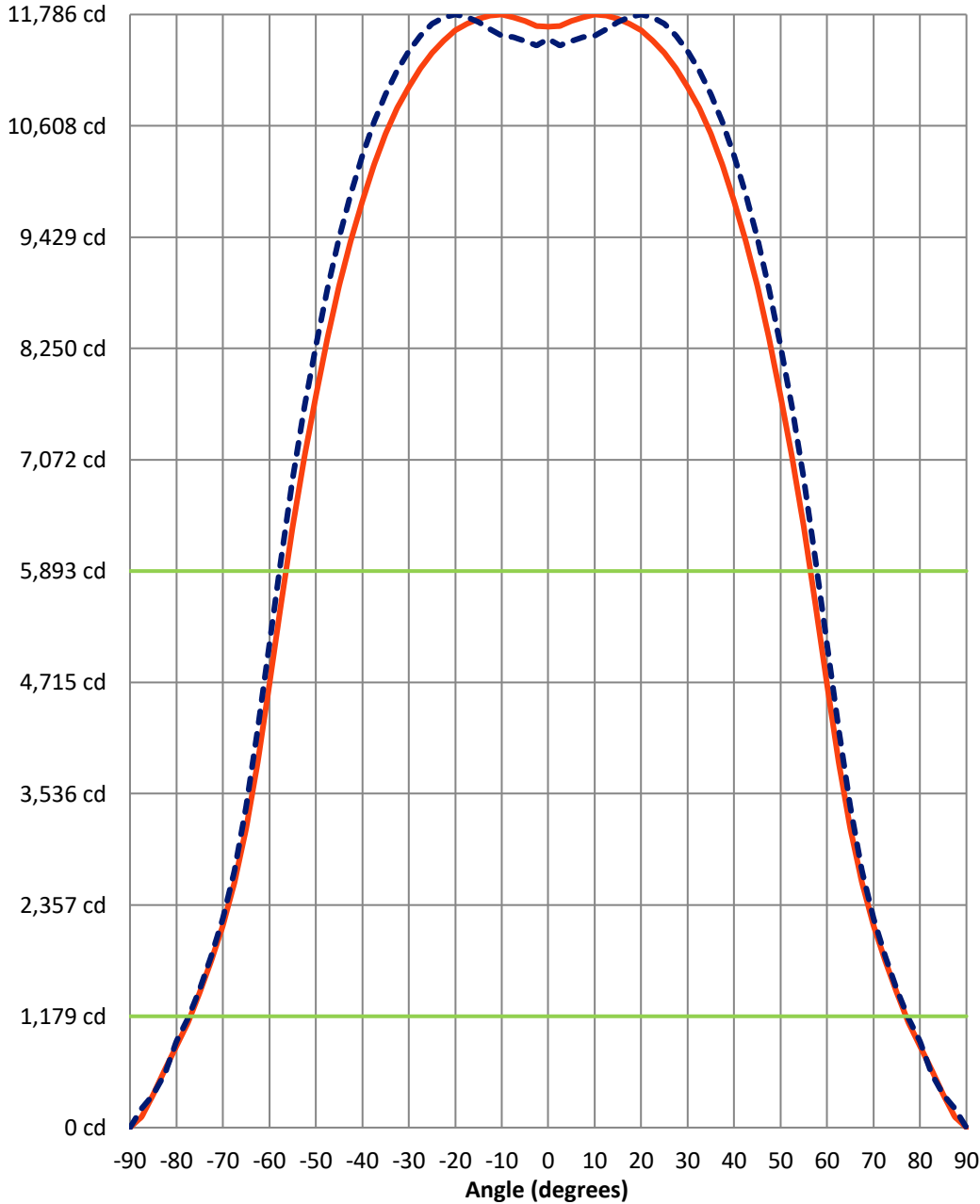
Luminous Intensity Polar Plot



— 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: 22188
 Efficiency: 61.4%

Field:
 H Angle: 154.7°
 V Angle: 154°
 Lumens: 26599.6
 Efficiency: 73.6%

Spill:
 Lumens: 9559.5
 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°	95.1	102.7	106.5	110.3	114.1	117.9	121.7	117.9	114.1	114.1	110.3
85°	254.9	262.5	266.3	292.9	319.6	334.8	353.8	350.0	350.0	346.2	342.4
82.5°	509.8	532.6	551.7	578.3	593.5	616.3	631.6	620.1	612.5	597.3	585.9
80°	905.5	913.1	916.9	920.7	901.7	897.9	890.3	878.8	863.6	844.6	825.6
77.5°	1152.8	1160.4	1168.0	1160.4	1156.6	1152.8	1141.4	1129.9	1114.7	1099.5	1076.7
75°	1525.6	1525.6	1525.6	1514.2	1506.6	1495.2	1476.2	1457.1	1430.5	1400.1	1365.8
72.5°	1921.3	1917.5	1913.7	1890.8	1871.8	1849.0	1822.4	1799.5	1769.1	1734.9	1689.2
70°	2336.0	2343.6	2347.4	2317.0	2294.1	2263.7	2229.5	2187.6	2141.9	2092.5	2027.8
67.5°	2906.7	2899.0	2891.4	2849.6	2819.2	2777.3	2727.8	2667.0	2598.5	2522.4	2431.1
65°	3614.3	3625.7	3602.9	3561.0	3504.0	3435.5	3359.4	3271.9	3169.2	3055.0	2925.7
62.5°	4470.3	4489.3	4462.7	4409.4	4337.2	4245.8	4139.3	4013.8	3873.0	3713.2	3553.4
60°	5444.3	5440.5	5391.0	5318.7	5223.6	5109.5	4991.5	4854.6	4694.8	4508.4	4314.3
57.5°	6338.3	6330.7	6269.9	6197.6	6102.5	5980.7	5855.2	5710.6	5543.2	5345.4	5120.9
55°	7141.1	7133.5	7072.6	6996.5	6897.6	6775.9	6661.7	6524.8	6361.2	6151.9	5912.2
52.5°	7852.5	7856.3	7803.1	7719.4	7612.9	7494.9	7384.6	7247.6	7091.6	6882.4	6650.3
50°	8506.9	8503.1	8446.0	8370.0	8271.0	8156.9	8046.6	7909.6	7746.0	7544.4	7319.9
47.5°	9115.6	9108.0	9043.4	8959.7	8856.9	8758.0	8655.3	8533.5	8362.3	8160.7	7936.2
45°	9625.4	9610.2	9545.6	9465.7	9366.7	9279.2	9187.9	9096.6	8914.0	8727.6	8514.5
42.5°	10063.0	10059.2	9994.5	9914.6	9815.7	9739.6	9655.9	9541.7	9389.6	9218.4	9009.1
40°	10481.5	10451.0	10386.4	10310.3	10219.0	10154.3	10070.6	9956.4	9808.1	9640.7	9439.0
37.5°	10793.4	10797.2	10728.8	10645.1	10565.2	10504.3	10428.2	10321.7	10192.3	10028.7	9827.1
35°	11090.2	11071.2	11014.1	10941.8	10869.5	10801.0	10721.1	10629.8	10523.3	10371.1	10180.9
32.5°	11284.2	11310.9	11242.4	11166.3	11124.4	11071.2	10987.5	10892.4	10797.2	10645.1	10473.9
30°	11497.3	11474.4	11421.2	11356.5	11326.1	11291.8	11219.5	11128.2	11017.9	10880.9	10721.1
27.5°	11645.6	11634.2	11569.6	11508.7	11493.5	11463.0	11406.0	11326.1	11215.7	11082.6	10934.2
25°	11710.3	11717.9	11657.1	11622.8	11622.8	11603.8	11558.1	11489.7	11379.3	11257.6	11113.0
22.5°	11740.8	11733.2	11691.3	11683.7	11702.7	11687.5	11668.5	11607.6	11508.7	11409.8	11288.0
20°	11759.8	11706.5	11668.5	11698.9	11721.7	11717.9	11702.7	11664.7	11619.0	11535.3	11428.8
17.5°	11717.9	11683.7	11638.0	11683.7	11733.2	11737.0	11721.7	11698.9	11687.5	11634.2	11539.1
15°	11615.2	11588.6	11596.2	11641.8	11698.9	11717.9	11729.3	11756.0	11740.8	11698.9	11615.2
12.5°	11546.7	11512.5	11546.7	11592.4	11622.8	11634.2	11725.5	11775.0	11775.0	11737.0	11683.7
10°	11527.7	11459.2	11504.9	11546.7	11561.9	11630.4	11706.5	11759.8	11786.4	11756.0	11687.5
7.5°	11489.7	11444.0	11463.0	11482.1	11569.6	11619.0	11660.9	11717.9	11756.0	11752.2	11691.3
5°	11470.6	11413.6	11421.2	11501.1	11561.9	11596.2	11611.4	11660.9	11717.9	11729.3	11683.7
2.5°	11421.2	11394.5	11451.6	11459.2	11504.9	11531.5	11546.7	11592.4	11664.7	11691.3	11672.3
0°	11394.5	11356.5	11318.5	11348.9	11425.0	11482.1	11504.9	11573.4	11657.1	11683.7	11641.8



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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°	106.5	102.7	98.9	95.1	98.9	98.9	98.9	95.1	98.9	95.1	95.1
85°	331.0	315.8	304.4	289.1	273.9	262.5	247.3	232.1	228.3	224.5	216.9
82.5°	570.7	551.7	532.6	509.8	487.0	460.3	433.7	403.3	395.7	388.1	376.6
80°	802.8	776.1	749.5	722.9	700.0	673.4	643.0	608.7	585.9	566.9	544.0
77.5°	1046.2	1008.2	970.2	924.5	897.9	871.2	840.8	806.6	772.3	741.9	707.6
75°	1324.0	1282.1	1244.1	1198.4	1149.0	1099.5	1050.0	1004.4	954.9	909.3	863.6
72.5°	1632.1	1571.3	1510.4	1453.3	1392.5	1331.6	1266.9	1206.0	1145.2	1084.3	1019.6
70°	1955.5	1879.4	1803.3	1727.3	1647.4	1567.5	1491.4	1415.3	1339.2	1259.3	1187.0
67.5°	2336.0	2248.5	2149.6	2043.0	1925.1	1822.4	1723.4	1632.1	1540.8	1449.5	1358.2
65°	2811.5	2689.8	2556.6	2412.1	2275.1	2138.1	1993.6	1856.6	1750.1	1643.6	1540.8
62.5°	3397.4	3226.2	3039.8	2853.4	2686.0	2507.2	2339.8	2161.0	1993.6	1841.4	1715.8
60°	4097.5	3865.4	3637.1	3397.4	3165.4	2921.9	2708.8	2488.2	2278.9	2092.5	1909.9
57.5°	4869.8	4599.7	4325.7	4032.8	3717.0	3431.7	3142.5	2853.4	2606.1	2358.8	2153.4
55°	5653.5	5368.2	5060.0	4729.0	4382.8	4017.6	3625.7	3302.3	2963.7	2674.6	2408.3
52.5°	6399.2	6102.5	5782.9	5478.5	5063.8	4645.3	4215.4	3789.3	3393.6	3024.6	2701.2
50°	7065.0	6775.9	6467.7	6113.9	5729.6	5284.5	4805.1	4325.7	3857.8	3424.1	3020.8
47.5°	7673.7	7392.2	7084.0	6730.2	6380.2	5885.6	5402.4	4873.6	4352.4	3854.0	3382.2
45°	8244.4	7959.1	7639.5	7300.9	6897.6	6456.3	5957.9	5425.3	4866.0	4306.7	3762.7
42.5°	8761.8	8476.5	8153.1	7803.1	7403.6	6966.1	6482.9	5946.5	5383.4	4774.7	4177.4
40°	9214.6	8936.8	8624.9	8259.6	7886.8	7426.4	6950.9	6441.1	5859.0	5246.4	4588.3
37.5°	9610.2	9351.5	9043.4	8681.9	8286.3	7875.4	7384.6	6874.8	6349.8	5684.0	5010.6
35°	9960.2	9720.6	9404.8	9062.4	8674.3	8240.6	7780.3	7281.9	6715.0	6091.0	5436.7
32.5°	10264.6	10021.1	9732.0	9389.6	9012.9	8605.8	8134.1	7631.9	7095.4	6460.1	5748.6
30°	10523.3	10287.4	10013.5	9690.1	9328.7	8925.4	8465.1	7959.1	7411.2	6779.7	6075.8
27.5°	10747.8	10523.3	10257.0	9956.4	9610.2	9222.2	8758.0	8248.2	7688.9	7080.2	6376.4
25°	10941.8	10725.0	10477.7	10192.3	9849.9	9469.5	9031.9	8499.3	7940.0	7327.5	6631.3
22.5°	11116.8	10907.6	10660.3	10382.5	10070.6	9690.1	9248.8	8720.0	8153.1	7548.2	6863.4
20°	11272.8	11078.8	10835.3	10549.9	10238.0	9853.7	9416.2	8914.0	8343.3	7749.8	7072.6
17.5°	11398.4	11227.2	10983.7	10683.1	10371.1	9998.3	9572.2	9111.8	8506.9	7921.0	7247.6
15°	11485.9	11318.5	11097.8	10793.4	10489.1	10120.0	9693.9	9218.4	8655.3	8058.0	7392.2
12.5°	11546.7	11367.9	11162.5	10880.9	10576.6	10211.3	9796.6	9328.7	8780.8	8179.7	7517.7
10°	11561.9	11398.4	11192.9	10941.8	10645.1	10291.2	9884.2	9420.0	8883.6	8274.8	7620.5
7.5°	11569.6	11413.6	11227.2	10987.5	10694.5	10352.1	9948.8	9492.3	8959.7	8354.7	7696.6
5°	11565.8	11417.4	11250.0	11017.9	10725.0	10386.4	9990.7	9541.7	9012.9	8408.0	7753.6
2.5°	11554.3	11421.2	11265.2	11040.7	10759.2	10424.4	10032.5	9598.8	9070.0	8453.7	7799.3
0°	11584.8	11470.6	11272.8	11033.1	10766.8	10424.4	10028.7	9606.4	9077.6	8449.8	7795.5



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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°	95.1	91.3	91.3	87.5	83.7	79.9	72.3	68.5	60.9	49.5	38.0
85°	205.4	194.0	182.6	175.0	167.4	159.8	148.4	137.0	121.7	98.9	76.1
82.5°	361.4	338.6	315.8	289.1	266.3	243.5	224.5	205.4	182.6	148.4	114.1
80°	517.4	483.2	448.9	410.9	376.6	338.6	304.4	273.9	243.5	197.8	152.2
77.5°	673.4	627.7	578.3	532.6	483.2	433.7	384.3	342.4	296.8	243.5	190.2
75°	818.0	764.7	719.1	654.4	593.5	528.8	464.2	407.1	350.0	285.3	228.3
72.5°	962.5	894.1	829.4	768.5	700.0	620.1	547.9	475.6	403.3	327.2	258.7
70°	1107.1	1023.4	943.5	871.2	795.1	715.3	627.7	544.0	456.5	365.2	285.3
67.5°	1255.5	1160.4	1069.1	977.8	890.3	799.0	707.6	612.5	509.8	403.3	315.8
65°	1419.1	1301.1	1190.8	1088.1	985.4	886.5	783.7	681.0	566.9	445.1	342.4
62.5°	1582.7	1453.3	1324.0	1194.6	1080.5	970.2	859.8	745.7	620.1	490.8	369.0
60°	1757.7	1609.3	1460.9	1316.4	1175.6	1053.9	932.1	810.4	677.2	532.6	395.7
57.5°	1951.7	1772.9	1605.5	1441.9	1282.1	1137.6	1004.4	875.0	726.7	574.5	426.1
55°	2172.4	1951.7	1753.9	1571.3	1396.3	1221.3	1076.7	943.5	783.7	616.3	460.3
52.5°	2404.5	2149.6	1909.9	1704.4	1518.0	1320.2	1145.2	996.8	840.8	658.2	490.8
50°	2674.6	2351.2	2084.9	1833.8	1624.5	1419.1	1217.4	1057.7	897.9	707.6	521.2
47.5°	2952.3	2594.7	2259.9	1986.0	1738.7	1514.2	1301.1	1110.9	951.1	753.3	551.7
45°	3275.7	2826.8	2457.7	2134.3	1849.0	1613.1	1384.8	1168.0	996.8	799.0	582.1
42.5°	3587.7	3100.7	2663.2	2297.9	1974.5	1708.2	1460.9	1228.9	1042.4	844.6	608.7
40°	3956.7	3374.6	2861.0	2453.9	2100.1	1799.5	1537.0	1293.5	1084.3	886.5	635.4
37.5°	4310.5	3652.3	3100.7	2625.1	2221.8	1890.8	1613.1	1354.4	1122.3	928.3	669.6
35°	4660.5	3960.5	3329.0	2784.9	2347.4	1993.6	1689.2	1411.5	1160.4	962.5	700.0
32.5°	4995.3	4249.7	3561.0	2963.7	2484.4	2088.7	1757.7	1464.7	1198.4	993.0	730.5
30°	5307.3	4523.6	3789.3	3146.3	2609.9	2176.2	1822.4	1518.0	1244.1	1019.6	760.9
27.5°	5592.7	4789.9	4017.6	3317.5	2727.8	2256.1	1890.8	1567.5	1282.1	1046.2	787.5
25°	5851.4	5029.6	4226.8	3473.5	2834.4	2343.6	1955.5	1616.9	1316.4	1069.1	810.4
22.5°	6094.8	5250.2	4417.1	3629.5	2963.7	2431.1	2016.4	1662.6	1350.6	1091.9	833.2
20°	6307.9	5451.9	4599.7	3785.5	3077.9	2511.0	2069.7	1704.4	1381.0	1107.1	856.0
17.5°	6479.1	5630.7	4763.3	3922.5	3176.8	2579.5	2115.3	1742.5	1407.7	1126.1	871.2
15°	6631.3	5782.9	4900.2	4040.4	3264.3	2636.5	2157.2	1772.9	1430.5	1137.6	890.3
12.5°	6760.6	5912.2	5018.2	4143.1	3340.4	2686.0	2191.4	1795.7	1449.5	1149.0	901.7
10°	6867.2	6015.0	5117.1	4223.0	3401.2	2724.0	2218.0	1818.6	1464.7	1160.4	913.1
7.5°	6947.1	6091.0	5189.4	4291.5	3450.7	2750.7	2240.9	1833.8	1480.0	1168.0	932.1
5°	7007.9	6155.7	5246.4	4337.2	3488.7	2788.7	2267.5	1852.8	1495.2	1175.6	932.1
2.5°	7053.6	6209.0	5292.1	4375.2	3519.2	2781.1	2267.5	1849.0	1495.2	1175.6	928.3
0°	7046.0	6212.8	5288.3	4375.2	3519.2	2773.5	2267.5	1845.2	1495.2	1175.6	928.3



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	26.6	19.0	7.6	0.0
85°	57.1	38.0	19.0	0.0
82.5°	83.7	53.3	26.6	0.0
80°	110.3	72.3	34.2	0.0
77.5°	140.8	91.3	45.7	0.0
75°	167.4	106.5	53.3	0.0
72.5°	194.0	125.5	60.9	0.0
70°	216.9	140.8	68.5	0.0
67.5°	239.7	159.8	79.9	0.0
65°	258.7	175.0	87.5	0.0
62.5°	273.9	194.0	95.1	0.0
60°	292.9	209.2	102.7	0.0
57.5°	308.2	220.7	110.3	0.0
55°	323.4	228.3	117.9	0.0
52.5°	338.6	239.7	125.5	0.0
50°	353.8	251.1	133.2	0.0
47.5°	369.0	258.7	137.0	0.0
45°	391.9	270.1	144.6	0.0
42.5°	410.9	277.7	152.2	0.0
40°	429.9	285.3	156.0	0.0
37.5°	448.9	292.9	163.6	0.0
35°	468.0	300.6	167.4	0.0
32.5°	483.2	308.2	171.2	0.0
30°	498.4	315.8	175.0	0.0
27.5°	513.6	319.6	178.8	0.0
25°	525.0	327.2	182.6	0.0
22.5°	536.4	331.0	186.4	0.0
20°	544.0	334.8	190.2	0.0
17.5°	555.5	338.6	194.0	0.0
15°	559.3	342.4	201.6	0.0
12.5°	566.9	346.2	201.6	0.0
10°	570.7	350.0	201.6	0.0
7.5°	578.3	350.0	201.6	0.0
5°	574.5	350.0	201.6	0.0
2.5°	574.5	350.0	201.6	0.0
0°	570.7	350.0	201.6	0.0

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