

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: P624128

Luminaire Tested: **EPH-VN-06-E-730-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624128
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-06-E-730-U-55
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

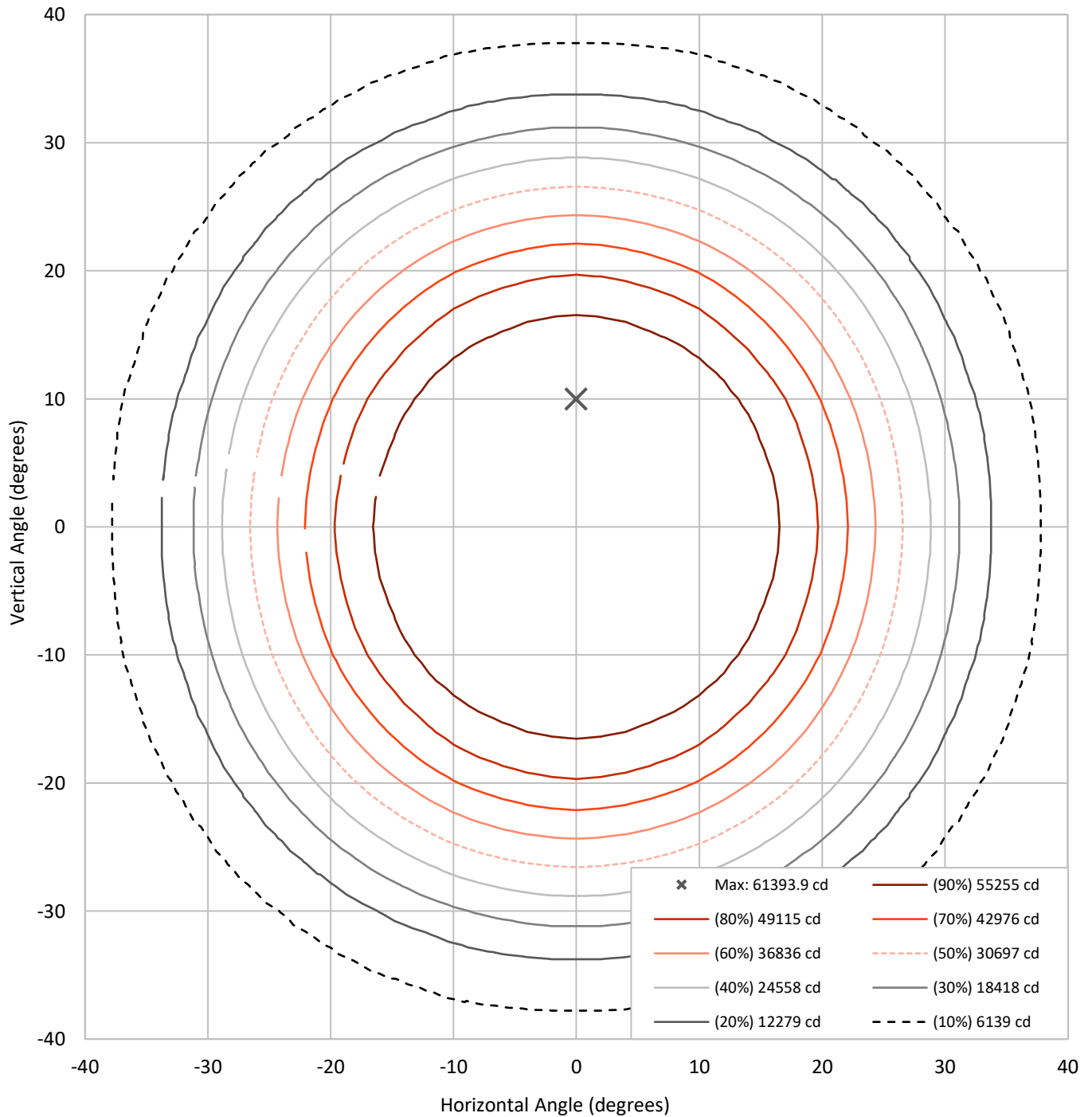
Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	50238.8 lumens	Max Intensity:	61393.9 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	108.2 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	24970 lumens	Field Lumens:	32474.2 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

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





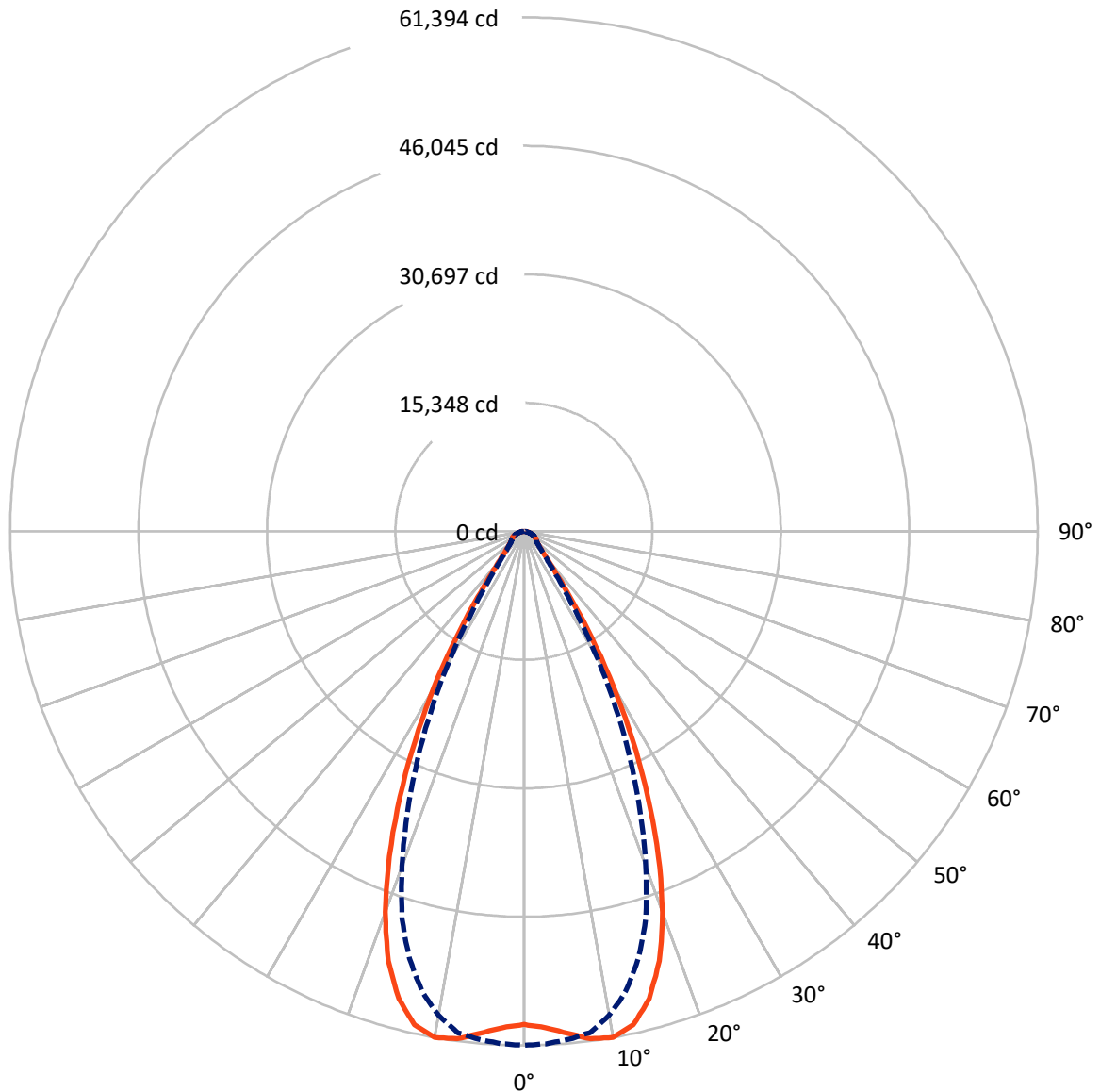
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Lumen Table

90	1.4	11.0	28.7	46.3	53.7	46.3	28.7	11.0	1.4							
80	1.4	11.0	28.7	46.3	53.7	46.3	28.7	11.0	1.4							
70	5.0	5.5	11.4	18.7	26.3	32.9	37.7	40.3	40.3	37.7	32.9	26.3	18.7	11.4	5.5	5.0
60		8.4	17.4	27.6	37.0	45.0	51.1	54.5	54.5	51.1	45.0	37.0	27.6	17.4	8.4	
50	8.9	11.3	22.4	33.9	45.5	58.9	74.5	86.6	86.6	74.5	58.9	45.5	33.9	22.4	11.3	8.9
40		13.8	26.0	39.3	59.6	106.1	207.4	312.8	312.8	207.4	106.1	59.6	39.3	26.0	13.8	
30	11.9	15.5	28.6	46.1	96.3	307.0	711.3	1009.5	1009.5	711.3	307.0	96.3	46.1	28.6	15.5	11.9
20		16.7	30.5	54.9	177.8	670.0	1310.8	1671.0	1671.0	1310.8	670.0	177.8	54.9	30.5	16.7	
10	13.0	17.3	31.5	62.0	260.9	922.9	1621.6	1839.0	1839.0	1621.6	922.9	260.9	62.0	31.5	17.3	13.0
0		17.3	31.5	62.0	260.9	922.9	1621.6	1839.0	1839.0	1621.6	922.9	260.9	62.0	31.5	17.3	
-10	11.9	16.7	30.5	54.9	177.8	670.0	1310.8	1671.0	1671.0	1310.8	670.0	177.8	54.9	30.5	16.7	11.9
-20		15.5	28.6	46.1	96.3	307.0	711.3	1009.5	1009.5	711.3	307.0	96.3	46.1	28.6	15.5	
-30	8.9	13.8	26.0	39.3	59.6	106.1	207.4	312.8	312.8	207.4	106.1	59.6	39.3	26.0	13.8	8.9
-40		11.3	22.4	33.9	45.5	58.9	74.5	86.6	86.6	74.5	58.9	45.5	33.9	22.4	11.3	
-50	5.0	8.4	17.4	27.6	37.0	45.0	51.1	54.5	54.5	51.1	45.0	37.0	27.6	17.4	8.4	5.0
-60		5.5	11.4	18.7	26.3	32.9	37.7	40.3	40.3	37.7	32.9	26.3	18.7	11.4	5.5	
-70	1.4	11.0	28.7	46.3	53.7	46.3	28.7	11.0	1.4							
-80		1.4	11.0	28.7	46.3	53.7	46.3	28.7	11.0	1.4						
-90	1.4	11.0	28.7	46.3	53.7	46.3	28.7	11.0	1.4							

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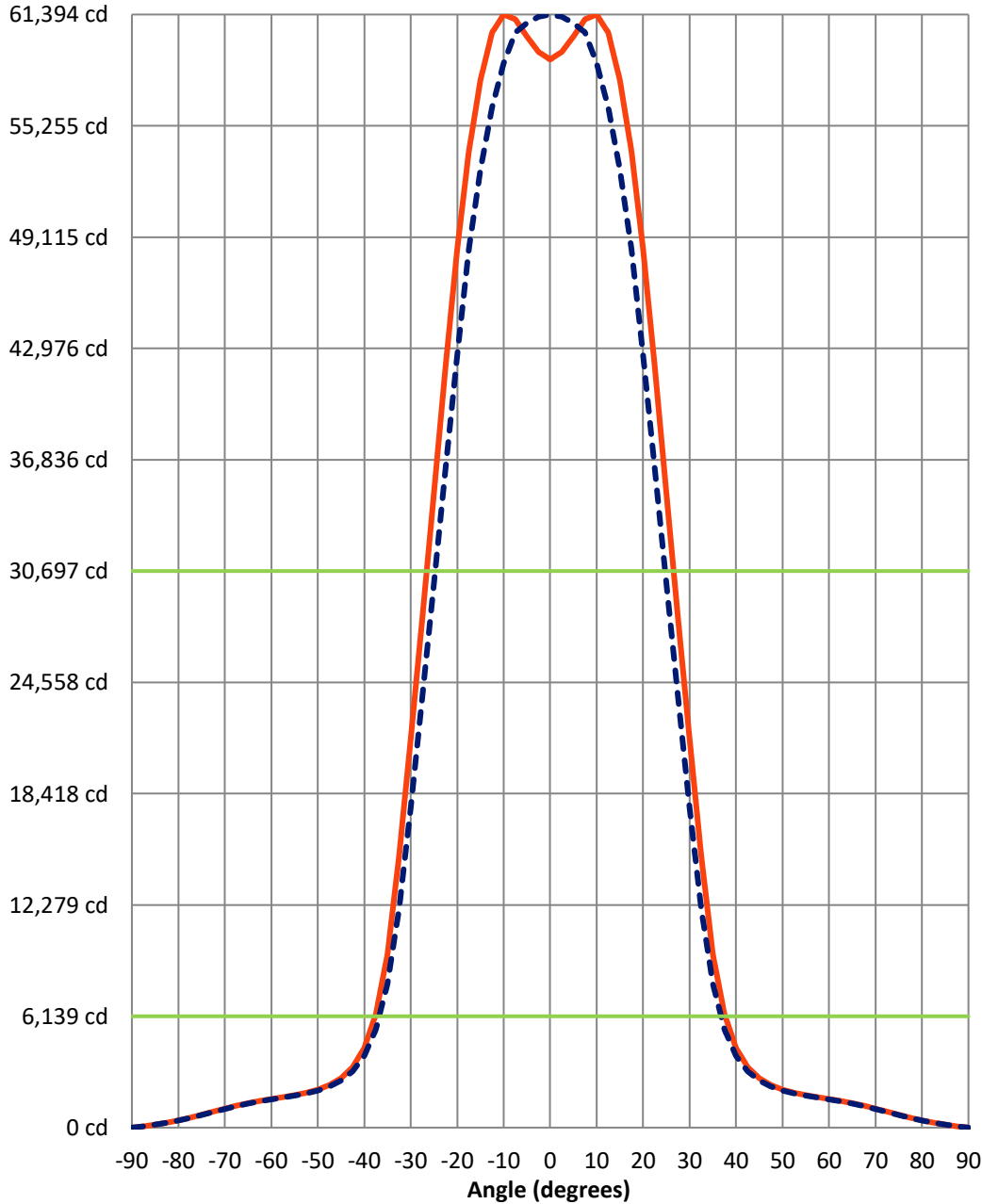
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 49.5°
 V Angle: 53.1°
 Lumens: 24970
 Efficiency: 49.7%

Field:
 H Angle: 73.6°
 V Angle: 75.3°
 Lumens: 32474.2
 Efficiency: 64.6%

Spill:
 Lumens: 17764.7
 Efficiency: 35.4%

— Vertical Distribution through 0-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°	67.8	67.8	67.8	67.8	67.8	67.8	67.8	62.6	62.6	62.6	62.6
85°	167.0	167.0	167.0	167.0	167.0	161.8	161.8	156.6	156.6	151.3	146.1
82.5°	271.4	271.4	271.4	271.4	266.2	266.2	260.9	255.7	250.5	245.3	240.1
80°	396.6	396.6	396.6	396.6	391.4	386.2	381.0	375.8	365.3	360.1	349.7
77.5°	542.8	542.8	542.8	537.5	532.3	527.1	516.7	506.2	495.8	485.3	474.9
75°	709.8	709.8	709.8	699.3	694.1	683.7	673.2	662.8	647.1	631.5	615.8
72.5°	882.0	882.0	882.0	871.5	861.1	850.7	840.2	824.6	808.9	788.0	767.2
70°	1043.8	1043.8	1043.8	1033.3	1022.9	1012.4	996.8	981.1	960.3	939.4	918.5
67.5°	1210.8	1210.8	1210.8	1195.1	1184.7	1174.2	1158.6	1137.7	1116.8	1090.7	1064.6
65°	1346.4	1346.4	1341.2	1336.0	1325.6	1309.9	1299.5	1278.6	1257.7	1236.9	1210.8
62.5°	1471.7	1471.7	1466.5	1461.3	1450.8	1435.2	1419.5	1403.9	1383.0	1356.9	1330.8
60°	1576.1	1576.1	1570.9	1565.6	1555.2	1544.8	1529.1	1513.5	1492.6	1471.7	1445.6
57.5°	1680.5	1680.5	1675.2	1670.0	1659.6	1643.9	1628.3	1612.6	1591.7	1565.6	1539.5
55°	1790.0	1790.0	1784.8	1774.4	1764.0	1748.3	1732.6	1711.8	1685.7	1659.6	1633.5
52.5°	1920.5	1920.5	1910.1	1899.6	1884.0	1868.3	1842.2	1816.1	1784.8	1753.5	1722.2
50°	2092.7	2092.7	2082.3	2066.6	2040.5	2014.5	1983.1	1941.4	1904.9	1863.1	1821.4
47.5°	2348.5	2348.5	2327.6	2301.5	2265.0	2223.2	2165.8	2103.2	2051.0	1998.8	1936.2
45°	2724.2	2724.2	2692.9	2651.1	2593.7	2520.7	2437.2	2348.5	2259.7	2171.0	2082.3
42.5°	3334.8	3334.8	3277.4	3204.3	3105.2	2979.9	2823.4	2677.2	2552.0	2411.1	2291.1
40°	4389.0	4389.0	4279.4	4143.7	3955.8	3715.8	3428.7	3199.1	2979.9	2734.6	2567.6
37.5°	6262.6	6262.6	6048.6	5787.6	5422.3	4963.1	4409.9	4039.3	3632.3	3246.1	2964.3
35°	9571.3	9571.3	9159.0	8652.8	7948.2	7061.0	6116.4	5417.1	4639.5	4044.6	3517.5
32.5°	14998.8	14998.8	14257.7	13344.5	12086.7	10495.0	8981.5	7650.8	6262.6	5276.2	4326.4
30°	21449.2	21449.2	20478.6	19283.4	17644.7	15578.1	13422.7	11058.6	8866.7	7108.0	5672.8
27.5°	28118.9	27842.3	27007.3	25645.2	23776.8	21449.2	18761.6	15708.6	12744.3	9644.3	7593.3
25°	35018.1	34694.6	33739.5	32173.9	30034.2	27398.7	24371.8	20958.7	17300.3	13605.4	10056.6
22.5°	41990.4	41625.1	40539.6	38770.4	36369.8	33415.9	29987.2	26193.1	22106.8	17837.8	13605.4
20°	48435.6	48049.5	46911.8	45069.5	42585.4	39344.5	35534.8	31328.4	26809.0	22106.8	17300.3
17.5°	53831.9	53461.3	52365.4	50606.7	48435.6	44850.3	40889.3	36265.4	31328.4	26193.1	20958.7
15°	57772.1	57453.7	56519.6	55042.6	52829.9	49656.8	45622.7	40889.3	35534.8	29987.2	24371.8
12.5°	60386.7	60131.0	59395.1	58247.0	56263.8	53602.2	49656.8	44850.3	39344.5	33415.9	27398.7
10°	61393.9	61268.7	60924.2	60397.1	58706.2	56263.8	52829.9	48435.6	42585.4	36369.8	30034.2
7.5°	61127.8	61169.5	61289.5	61153.8	60397.1	58247.0	55042.6	50606.7	45069.5	38770.4	32173.9
5°	60177.9	60402.3	60960.8	61289.5	60924.2	59395.1	56519.6	52365.4	46911.8	40539.6	33739.5
2.5°	59332.5	59682.1	60402.3	61169.5	61268.7	60131.0	57453.7	53461.3	48049.5	41625.1	34694.6
0°	58915.0	59332.5	60177.9	61127.8	61393.9	60386.7	57772.1	53831.9	48435.6	41990.4	35018.1



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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°	62.6	57.4	57.4	57.4	52.2	52.2	52.2	47.0	47.0	41.8	41.8
85°	146.1	140.9	135.7	130.5	125.3	120.0	114.8	109.6	104.4	93.9	88.7
82.5°	234.8	229.6	224.4	214.0	208.8	198.3	187.9	177.4	167.0	161.8	151.3
80°	339.2	328.8	318.3	307.9	292.3	276.6	266.2	250.5	240.1	224.4	214.0
77.5°	459.3	443.6	427.9	407.1	391.4	375.8	354.9	339.2	318.3	297.5	276.6
75°	594.9	574.1	548.0	527.1	506.2	480.1	454.0	427.9	401.8	375.8	349.7
72.5°	741.1	715.0	688.9	662.8	631.5	594.9	563.6	527.1	495.8	464.5	427.9
70°	892.4	861.1	829.8	798.5	761.9	720.2	683.7	641.9	600.2	558.4	516.7
67.5°	1033.3	1002.0	965.5	934.2	892.4	850.7	803.7	756.7	709.8	657.6	605.4
65°	1179.4	1142.9	1101.2	1059.4	1017.7	970.7	923.7	876.8	819.4	761.9	709.8
62.5°	1299.5	1268.2	1231.6	1189.9	1142.9	1090.7	1043.8	981.1	923.7	866.3	798.5
60°	1414.3	1377.8	1346.4	1299.5	1257.7	1210.8	1153.4	1090.7	1028.1	960.3	897.6
57.5°	1513.5	1482.1	1445.6	1403.9	1356.9	1309.9	1257.7	1200.3	1127.3	1059.4	986.4
55°	1602.2	1565.6	1529.1	1492.6	1450.8	1398.6	1346.4	1289.0	1226.4	1153.4	1075.1
52.5°	1690.9	1654.4	1612.6	1576.1	1529.1	1482.1	1429.9	1372.5	1309.9	1242.1	1158.6
50°	1779.6	1737.9	1696.1	1649.1	1602.2	1555.2	1503.0	1450.8	1383.0	1315.1	1242.1
47.5°	1884.0	1831.8	1779.6	1727.4	1680.5	1623.0	1570.9	1513.5	1456.0	1383.0	1309.9
45°	2014.5	1936.2	1873.5	1810.9	1753.5	1696.1	1633.5	1576.1	1513.5	1450.8	1372.5
42.5°	2176.2	2071.9	1988.4	1904.9	1831.8	1764.0	1701.3	1633.5	1570.9	1503.0	1429.9
40°	2395.4	2254.5	2118.8	2014.5	1920.5	1837.0	1764.0	1696.1	1623.0	1555.2	1482.1
37.5°	2682.5	2484.1	2296.3	2144.9	2024.9	1920.5	1831.8	1753.5	1680.5	1602.2	1529.1
35°	3115.6	2771.2	2531.1	2311.9	2144.9	2014.5	1904.9	1810.9	1727.4	1649.1	1576.1
32.5°	3726.2	3193.9	2807.7	2531.1	2296.3	2118.8	1988.4	1873.5	1779.6	1696.1	1612.6
30°	4529.9	3794.1	3193.9	2771.2	2484.1	2254.5	2071.9	1936.2	1831.8	1737.9	1654.4
27.5°	5803.3	4529.9	3726.2	3115.6	2682.5	2395.4	2176.2	2014.5	1884.0	1779.6	1690.9
25°	7593.3	5672.8	4326.4	3517.5	2964.3	2567.6	2291.1	2082.3	1936.2	1821.4	1722.2
22.5°	9644.3	7108.0	5276.2	4044.6	3246.1	2734.6	2411.1	2171.0	1998.8	1863.1	1753.5
20°	12744.3	8866.7	6262.6	4639.5	3632.3	2979.9	2552.0	2259.7	2051.0	1904.9	1784.8
17.5°	15708.6	11058.6	7650.8	5417.1	4039.3	3199.1	2677.2	2348.5	2103.2	1941.4	1816.1
15°	18761.6	13422.7	8981.5	6116.4	4409.9	3428.7	2823.4	2437.2	2165.8	1983.1	1842.2
12.5°	21449.2	15578.1	10495.0	7061.0	4963.1	3715.8	2979.9	2520.7	2223.2	2014.5	1868.3
10°	23776.8	17644.7	12086.7	7948.2	5422.3	3955.8	3105.2	2593.7	2265.0	2040.5	1884.0
7.5°	25645.2	19283.4	13344.5	8652.8	5787.6	4143.7	3204.3	2651.1	2301.5	2066.6	1899.6
5°	27007.3	20478.6	14257.7	9159.0	6048.6	4279.4	3277.4	2692.9	2327.6	2082.3	1910.1
2.5°	27842.3	21449.2	14998.8	9571.3	6262.6	4389.0	3334.8	2724.2	2348.5	2092.7	1920.5
0°	28118.9	21449.2	14998.8	9571.3	6262.6	4389.0	3334.8	2724.2	2348.5	2092.7	1920.5



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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°	36.5	36.5	31.3	31.3	26.1	26.1	20.9	20.9	15.7	15.7	10.4
85°	83.5	73.1	67.8	62.6	57.4	52.2	47.0	41.8	36.5	31.3	26.1
82.5°	140.9	130.5	114.8	104.4	93.9	83.5	67.8	62.6	52.2	41.8	36.5
80°	198.3	182.7	167.0	151.3	135.7	120.0	104.4	88.7	73.1	57.4	47.0
77.5°	255.7	234.8	219.2	198.3	177.4	156.6	135.7	114.8	93.9	73.1	57.4
75°	323.6	297.5	271.4	245.3	219.2	193.1	172.2	146.1	120.0	93.9	73.1
72.5°	396.6	360.1	328.8	297.5	260.9	234.8	203.5	177.4	146.1	114.8	88.7
70°	474.9	433.2	391.4	349.7	313.1	271.4	240.1	203.5	172.2	135.7	104.4
67.5°	553.2	506.2	459.3	407.1	360.1	318.3	271.4	234.8	193.1	156.6	120.0
65°	647.1	584.5	527.1	469.7	412.3	360.1	313.1	260.9	219.2	177.4	135.7
62.5°	735.9	668.0	600.2	532.3	469.7	407.1	349.7	297.5	245.3	198.3	151.3
60°	824.6	751.5	673.2	600.2	527.1	459.3	391.4	328.8	271.4	219.2	167.0
57.5°	913.3	829.8	751.5	668.0	584.5	506.2	433.2	360.1	297.5	234.8	182.7
55°	991.6	913.3	824.6	735.9	647.1	553.2	474.9	396.6	323.6	255.7	198.3
52.5°	1075.1	986.4	897.6	798.5	709.8	605.4	516.7	427.9	349.7	276.6	214.0
50°	1153.4	1059.4	960.3	866.3	761.9	657.6	558.4	464.5	375.8	297.5	224.4
47.5°	1226.4	1127.3	1028.1	923.7	819.4	709.8	600.2	495.8	401.8	318.3	240.1
45°	1289.0	1200.3	1090.7	981.1	876.8	756.7	641.9	527.1	427.9	339.2	250.5
42.5°	1346.4	1257.7	1153.4	1043.8	923.7	803.7	683.7	563.6	454.0	354.9	266.2
40°	1398.6	1309.9	1210.8	1090.7	970.7	850.7	720.2	594.9	480.1	375.8	276.6
37.5°	1450.8	1356.9	1257.7	1142.9	1017.7	892.4	761.9	631.5	506.2	391.4	292.3
35°	1492.6	1403.9	1299.5	1189.9	1059.4	934.2	798.5	662.8	527.1	407.1	307.9
32.5°	1529.1	1445.6	1346.4	1231.6	1101.2	965.5	829.8	688.9	548.0	427.9	318.3
30°	1565.6	1482.1	1377.8	1268.2	1142.9	1002.0	861.1	715.0	574.1	443.6	328.8
27.5°	1602.2	1513.5	1414.3	1299.5	1179.4	1033.3	892.4	741.1	594.9	459.3	339.2
25°	1633.5	1539.5	1445.6	1330.8	1210.8	1064.6	918.5	767.2	615.8	474.9	349.7
22.5°	1659.6	1565.6	1471.7	1356.9	1236.9	1090.7	939.4	788.0	631.5	485.3	360.1
20°	1685.7	1591.7	1492.6	1383.0	1257.7	1116.8	960.3	808.9	647.1	495.8	365.3
17.5°	1711.8	1612.6	1513.5	1403.9	1278.6	1137.7	981.1	824.6	662.8	506.2	375.8
15°	1732.6	1628.3	1529.1	1419.5	1299.5	1158.6	996.8	840.2	673.2	516.7	381.0
12.5°	1748.3	1643.9	1544.8	1435.2	1309.9	1174.2	1012.4	850.7	683.7	527.1	386.2
10°	1764.0	1659.6	1555.2	1450.8	1325.6	1184.7	1022.9	861.1	694.1	532.3	391.4
7.5°	1774.4	1670.0	1565.6	1461.3	1336.0	1195.1	1033.3	871.5	699.3	537.5	396.6
5°	1784.8	1675.2	1570.9	1466.5	1341.2	1210.8	1043.8	882.0	709.8	542.8	396.6
2.5°	1790.0	1680.5	1576.1	1471.7	1346.4	1210.8	1043.8	882.0	709.8	542.8	396.6
0°	1790.0	1680.5	1576.1	1471.7	1346.4	1210.8	1043.8	882.0	709.8	542.8	396.6



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	10.4	5.2	5.2	0.0
85°	15.7	10.4	5.2	0.0
82.5°	26.1	15.7	10.4	0.0
80°	36.5	26.1	10.4	0.0
77.5°	41.8	31.3	15.7	0.0
75°	52.2	36.5	15.7	0.0
72.5°	62.6	41.8	20.9	0.0
70°	67.8	47.0	20.9	0.0
67.5°	83.5	52.2	26.1	0.0
65°	93.9	57.4	26.1	0.0
62.5°	104.4	62.6	31.3	0.0
60°	114.8	67.8	31.3	0.0
57.5°	130.5	73.1	36.5	0.0
55°	140.9	83.5	36.5	0.0
52.5°	151.3	88.7	41.8	0.0
50°	161.8	93.9	41.8	0.0
47.5°	167.0	104.4	47.0	0.0
45°	177.4	109.6	47.0	0.0
42.5°	187.9	114.8	52.2	0.0
40°	198.3	120.0	52.2	0.0
37.5°	208.8	125.3	52.2	0.0
35°	214.0	130.5	57.4	0.0
32.5°	224.4	135.7	57.4	0.0
30°	229.6	140.9	57.4	0.0
27.5°	234.8	146.1	62.6	0.0
25°	240.1	146.1	62.6	0.0
22.5°	245.3	151.3	62.6	0.0
20°	250.5	156.6	62.6	0.0
17.5°	255.7	156.6	62.6	0.0
15°	260.9	161.8	67.8	0.0
12.5°	266.2	161.8	67.8	0.0
10°	266.2	167.0	67.8	0.0
7.5°	271.4	167.0	67.8	0.0
5°	271.4	167.0	67.8	0.0
2.5°	271.4	167.0	67.8	0.0
0°	271.4	167.0	67.8	0.0

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