

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: P624164

Luminaire Tested: **EPH-VN-06-E-935-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624164
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-935-U-55
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens
Light Source: (96) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

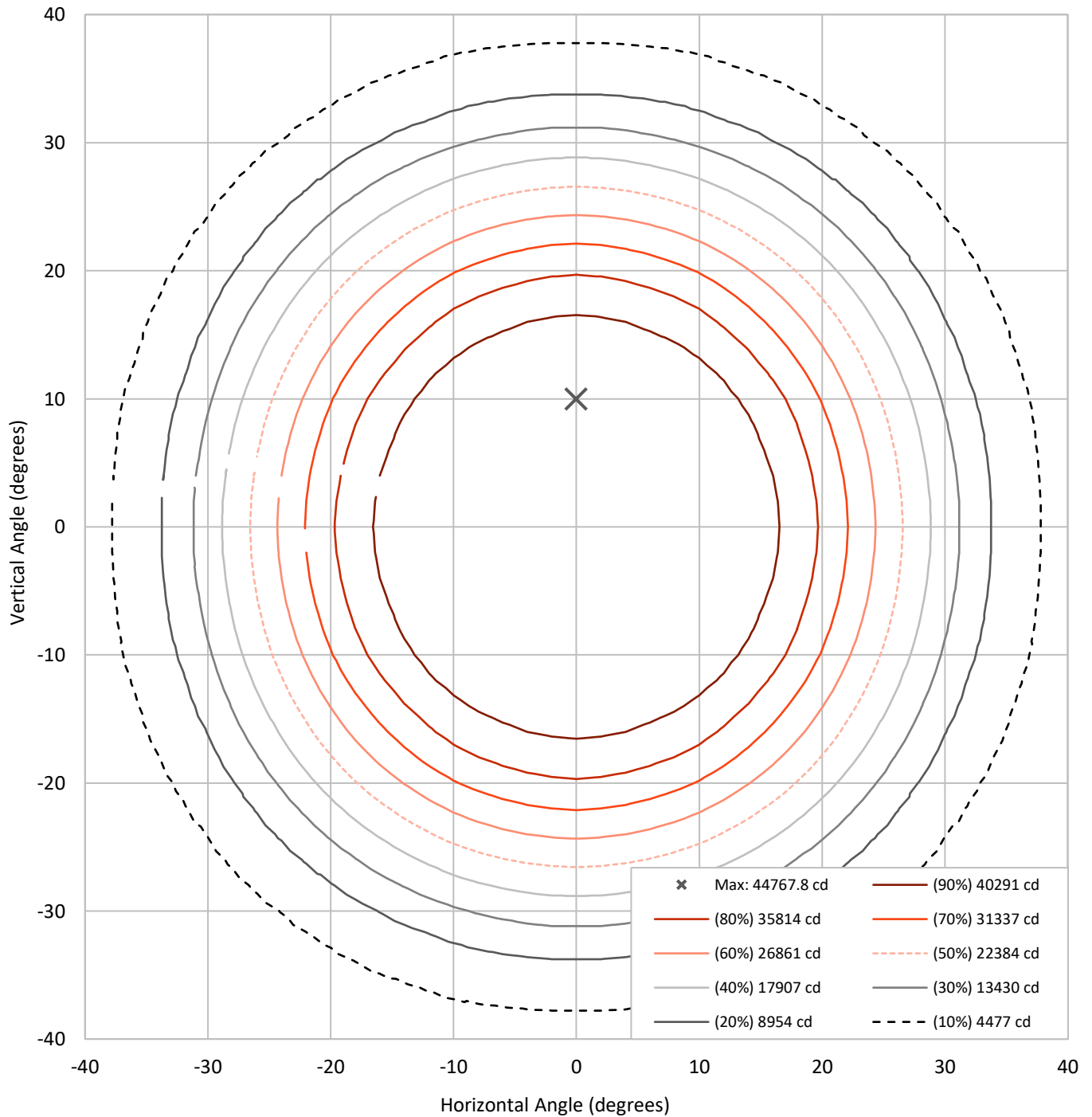
Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	36633.6 lumens	Max Intensity:	44767.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	78.9 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	18207.8 lumens	Field Lumens:	23679.8 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





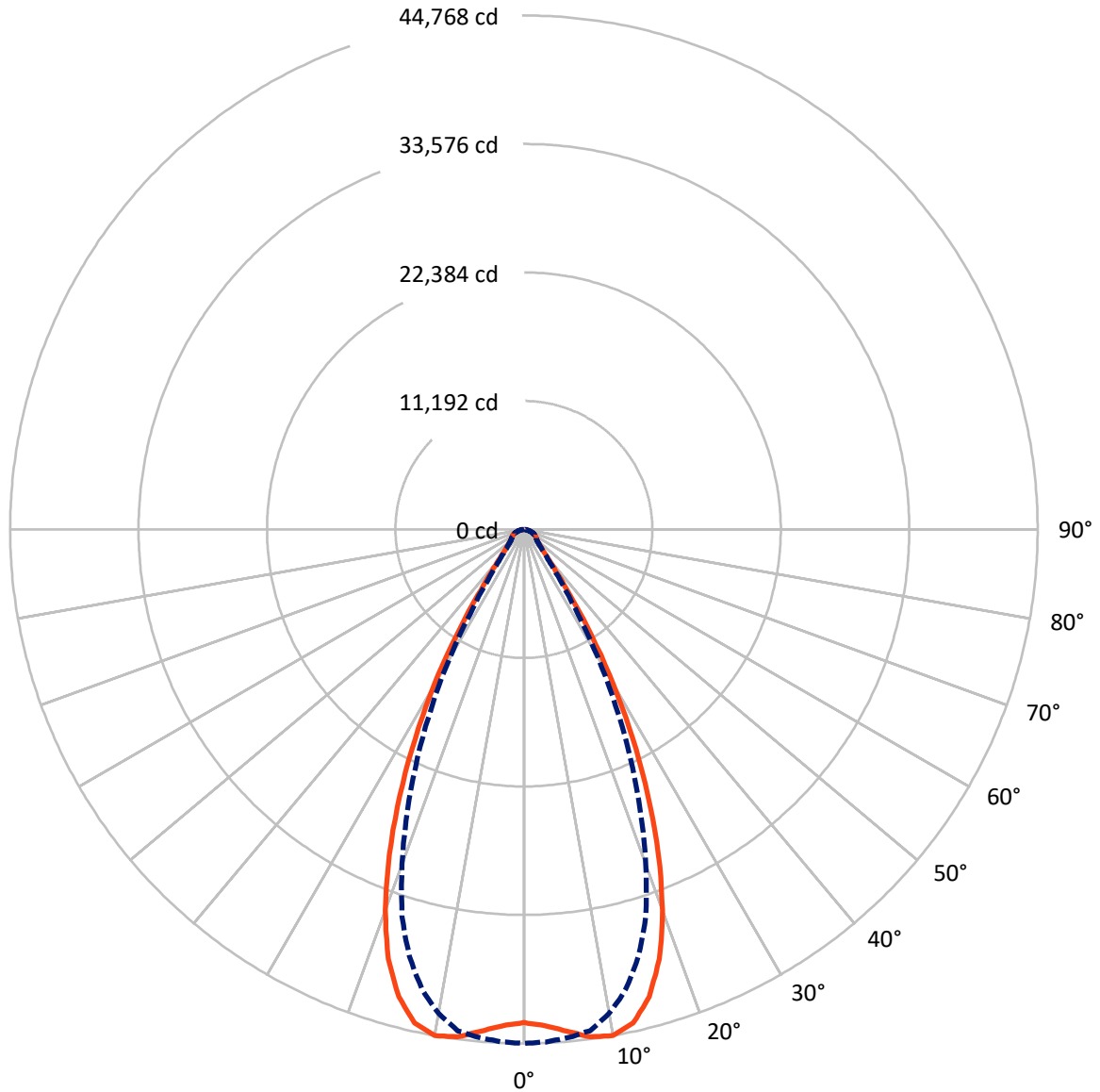
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Lumen Table

90	1.1	8.0	20.9	33.8	39.2	33.8	20.9	8.0	1.1							
80	1.1	8.0	20.9	33.8	39.2	33.8	20.9	8.0	1.1							
70	3.7	4.0	8.3	13.7	19.2	24.0	27.5	29.4	29.4	27.5	24.0	19.2	13.7	8.3	4.0	3.7
60		6.2	12.7	20.1	27.0	32.8	37.2	39.7	39.7	37.2	32.8	27.0	20.1	12.7	6.2	
50	6.5	8.3	16.3	24.7	33.2	42.9	54.3	63.1	63.1	54.3	42.9	33.2	24.7	16.3	8.3	6.5
40		10.0	19.0	28.7	43.4	77.4	151.2	228.1	228.1	151.2	77.4	43.4	28.7	19.0	10.0	
30	8.7	11.3	20.8	33.6	70.3	223.8	518.7	736.1	736.1	518.7	223.8	70.3	33.6	20.8	11.3	8.7
20		12.2	22.2	40.1	129.6	488.5	955.8	1218.5	1218.5	955.8	488.5	129.6	40.1	22.2	12.2	
10	9.5	12.6	23.0	45.2	190.3	673.0	1182.5	1341.0	1341.0	1182.5	673.0	190.3	45.2	23.0	12.6	9.5
0		12.6	23.0	45.2	190.3	673.0	1182.5	1341.0	1341.0	1182.5	673.0	190.3	45.2	23.0	12.6	
-10	8.7	12.2	22.2	40.1	129.6	488.5	955.8	1218.5	1218.5	955.8	488.5	129.6	40.1	22.2	12.2	8.7
-20		11.3	20.8	33.6	70.3	223.8	518.7	736.1	736.1	518.7	223.8	70.3	33.6	20.8	11.3	
-30	6.5	10.0	19.0	28.7	43.4	77.4	151.2	228.1	228.1	151.2	77.4	43.4	28.7	19.0	10.0	6.5
-40		8.3	16.3	24.7	33.2	42.9	54.3	63.1	63.1	54.3	42.9	33.2	24.7	16.3	8.3	
-50	3.7	6.2	12.7	20.1	27.0	32.8	37.2	39.7	39.7	37.2	32.8	27.0	20.1	12.7	6.2	3.7
-60		4.0	8.3	13.7	19.2	24.0	27.5	29.4	29.4	27.5	24.0	19.2	13.7	8.3	4.0	
-70	1.1	8.0	20.9	33.8	39.2	33.8	20.9	8.0	1.1							
-80		1.1	8.0	20.9	33.8	39.2	33.8	20.9	8.0	1.1						
-90	1.1	8.0	20.9	33.8	39.2	33.8	20.9	8.0	1.1							

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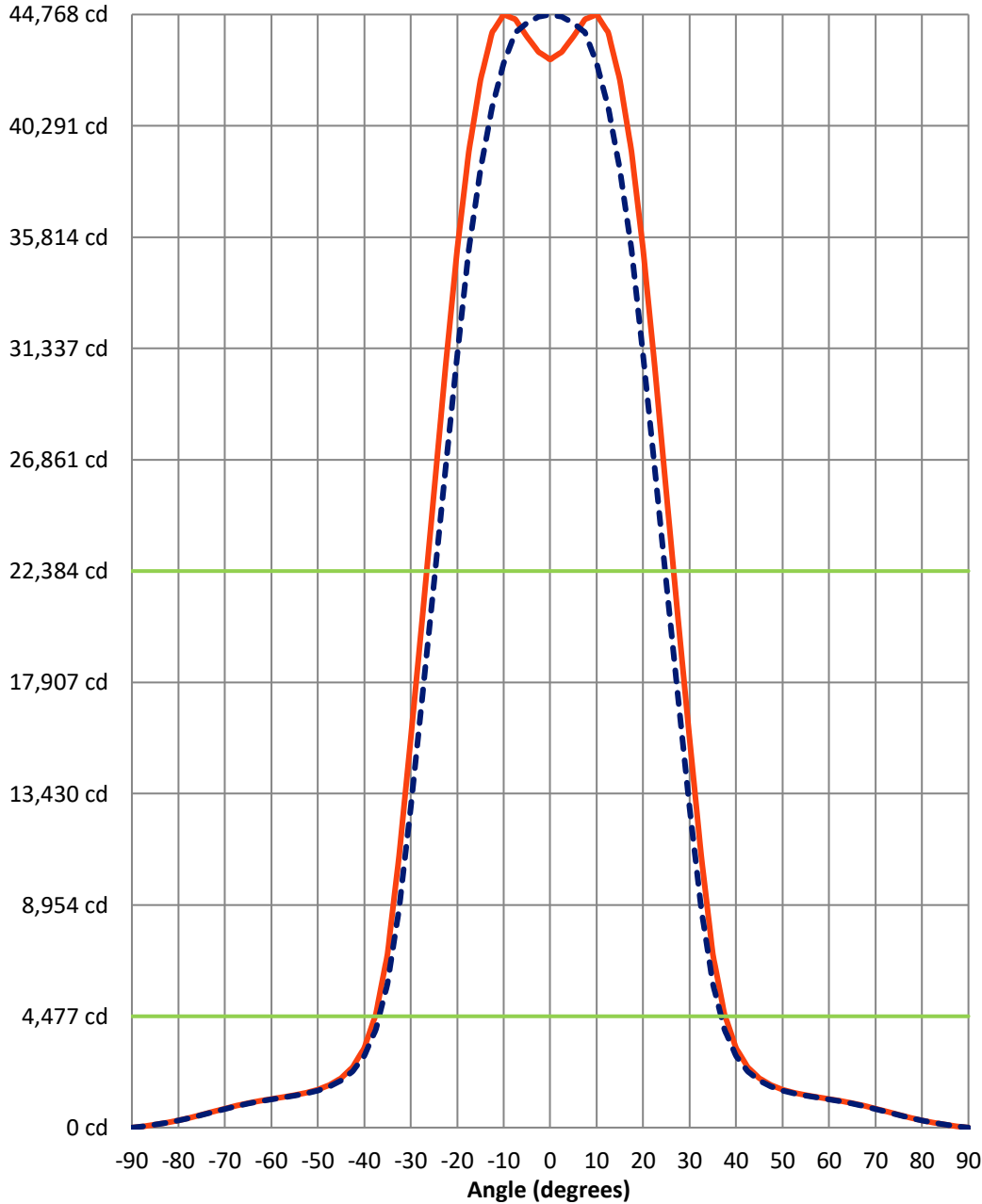
Luminous Intensity Polar Plot



— 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: 18207.8
 Efficiency: 49.7%

Field:
 H Angle: 73.6°
 V Angle: 75.3°
 Lumens: 23679.8
 Efficiency: 64.6%

Spill:
 Lumens: 12953.8
 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°	49.5	49.5	49.5	49.5	49.5	49.5	49.5	45.7	45.7	45.7	45.7
85°	121.8	121.8	121.8	121.8	121.8	118.0	118.0	114.2	114.2	110.4	106.6
82.5°	197.9	197.9	197.9	197.9	194.1	194.1	190.3	186.5	182.7	178.9	175.1
80°	289.2	289.2	289.2	289.2	285.4	281.6	277.8	274.0	266.4	262.6	255.0
77.5°	395.8	395.8	395.8	392.0	388.2	384.4	376.7	369.1	361.5	353.9	346.3
75°	517.5	517.5	517.5	509.9	506.1	498.5	490.9	483.3	471.9	460.5	449.0
72.5°	643.1	643.1	643.1	635.5	627.9	620.3	612.7	601.3	589.9	574.6	559.4
70°	761.1	761.1	761.1	753.5	745.9	738.3	726.8	715.4	700.2	685.0	669.8
67.5°	882.9	882.9	882.9	871.5	863.8	856.2	844.8	829.6	814.4	795.3	776.3
65°	981.8	981.8	978.0	974.2	966.6	955.2	947.6	932.3	917.1	901.9	882.9
62.5°	1073.1	1073.1	1069.3	1065.5	1057.9	1046.5	1035.1	1023.7	1008.5	989.4	970.4
60°	1149.3	1149.3	1145.5	1141.6	1134.0	1126.4	1115.0	1103.6	1088.4	1073.1	1054.1
57.5°	1225.4	1225.4	1221.6	1217.8	1210.1	1198.7	1187.3	1175.9	1160.7	1141.6	1122.6
55°	1305.3	1305.3	1301.5	1293.9	1286.3	1274.8	1263.4	1248.2	1229.2	1210.1	1191.1
52.5°	1400.4	1400.4	1392.8	1385.2	1373.8	1362.4	1343.3	1324.3	1301.5	1278.6	1255.8
50°	1526.0	1526.0	1518.4	1507.0	1487.9	1468.9	1446.1	1415.6	1389.0	1358.6	1328.1
47.5°	1712.5	1712.5	1697.2	1678.2	1651.6	1621.1	1579.3	1533.6	1495.6	1457.5	1411.8
45°	1986.5	1986.5	1963.6	1933.2	1891.3	1838.1	1777.2	1712.5	1647.8	1583.1	1518.4
42.5°	2431.7	2431.7	2389.8	2336.6	2264.3	2172.9	2058.8	1952.2	1860.9	1758.1	1670.6
40°	3200.4	3200.4	3120.5	3021.6	2884.6	2709.5	2500.2	2332.8	2172.9	1994.1	1872.3
37.5°	4566.6	4566.6	4410.6	4220.3	3953.9	3619.0	3215.6	2945.5	2648.6	2367.0	2161.5
35°	6979.3	6979.3	6678.6	6309.5	5795.8	5148.8	4460.0	3950.1	3383.1	2949.3	2564.9
32.5°	10937.0	10937.0	10396.6	9730.6	8813.5	7652.8	6549.3	5578.8	4566.6	3847.4	3154.8
30°	15640.6	15640.6	14932.7	14061.3	12866.4	11359.4	9787.7	8063.8	6465.5	5183.1	4136.6
27.5°	20504.0	20302.3	19693.4	18700.2	17337.8	15640.6	13680.7	11454.5	9293.0	7032.5	5537.0
25°	25534.8	25298.9	24602.5	23460.9	21900.6	19978.8	17771.6	15282.9	12615.2	9920.9	7333.2
22.5°	30619.0	30352.6	29561.1	28271.0	26520.5	24366.6	21866.4	19099.8	16120.1	13007.2	9920.9
20°	35318.8	35037.2	34207.6	32864.2	31052.8	28689.6	25911.6	22844.4	19548.8	16120.1	12615.2
17.5°	39253.6	38983.5	38184.3	36901.8	35318.8	32704.4	29816.0	26444.4	22844.4	19099.8	15282.9
15°	42126.8	41894.7	41213.5	40136.5	38523.0	36209.2	33267.6	29816.0	25911.6	21866.4	17771.6
12.5°	44033.3	43846.9	43310.3	42473.1	41027.0	39086.2	36209.2	32704.4	28689.6	24366.6	19978.8
10°	44767.8	44676.5	44425.3	44040.9	42808.0	41027.0	38523.0	35318.8	31052.8	26520.5	21900.6
7.5°	44573.7	44604.2	44691.7	44592.7	44040.9	42473.1	40136.5	36901.8	32864.2	28271.0	23460.9
5°	43881.1	44044.8	44451.9	44691.7	44425.3	43310.3	41213.5	38184.3	34207.6	29561.1	24602.5
2.5°	43264.6	43519.6	44044.8	44604.2	44676.5	43846.9	41894.7	38983.5	35037.2	30352.6	25298.9
0°	42960.2	43264.6	43881.1	44573.7	44767.8	44033.3	42126.8	39253.6	35318.8	30619.0	25534.8



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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°	45.7	41.9	41.9	41.9	38.1	38.1	38.1	34.2	34.2	30.4	30.4
85°	106.6	102.7	98.9	95.1	91.3	87.5	83.7	79.9	76.1	68.5	64.7
82.5°	171.2	167.4	163.6	156.0	152.2	144.6	137.0	129.4	121.8	118.0	110.4
80°	247.4	239.7	232.1	224.5	213.1	201.7	194.1	182.7	175.1	163.6	156.0
77.5°	334.9	323.5	312.1	296.8	285.4	274.0	258.8	247.4	232.1	216.9	201.7
75°	433.8	418.6	399.6	384.4	369.1	350.1	331.1	312.1	293.0	274.0	255.0
72.5°	540.4	521.4	502.3	483.3	460.5	433.8	411.0	384.4	361.5	338.7	312.1
70°	650.7	627.9	605.1	582.2	555.6	525.2	498.5	468.1	437.6	407.2	376.7
67.5°	753.5	730.7	704.0	681.2	650.7	620.3	586.0	551.8	517.5	479.5	441.4
65°	860.0	833.4	803.0	772.5	742.1	707.8	673.6	639.3	597.5	555.6	517.5
62.5°	947.6	924.7	898.1	867.7	833.4	795.3	761.1	715.4	673.6	631.7	582.2
60°	1031.3	1004.6	981.8	947.6	917.1	882.9	841.0	795.3	749.7	700.2	654.5
57.5°	1103.6	1080.8	1054.1	1023.7	989.4	955.2	917.1	875.3	822.0	772.5	719.2
55°	1168.3	1141.6	1115.0	1088.4	1057.9	1019.9	981.8	940.0	894.3	841.0	783.9
52.5°	1233.0	1206.3	1175.9	1149.3	1115.0	1080.8	1042.7	1000.8	955.2	905.7	844.8
50°	1297.7	1267.2	1236.8	1202.5	1168.3	1134.0	1096.0	1057.9	1008.5	959.0	905.7
47.5°	1373.8	1335.7	1297.7	1259.6	1225.4	1183.5	1145.5	1103.6	1061.7	1008.5	955.2
45°	1468.9	1411.8	1366.2	1320.5	1278.6	1236.8	1191.1	1149.3	1103.6	1057.9	1000.8
42.5°	1586.9	1510.8	1449.9	1389.0	1335.7	1286.3	1240.6	1191.1	1145.5	1096.0	1042.7
40°	1746.7	1644.0	1545.0	1468.9	1400.4	1339.5	1286.3	1236.8	1183.5	1134.0	1080.8
37.5°	1956.0	1811.4	1674.4	1564.1	1476.5	1400.4	1335.7	1278.6	1225.4	1168.3	1115.0
35°	2271.9	2020.7	1845.7	1685.8	1564.1	1468.9	1389.0	1320.5	1259.6	1202.5	1149.3
32.5°	2717.1	2329.0	2047.4	1845.7	1674.4	1545.0	1449.9	1366.2	1297.7	1236.8	1175.9
30°	3303.2	2766.6	2329.0	2020.7	1811.4	1644.0	1510.8	1411.8	1335.7	1267.2	1206.3
27.5°	4231.7	3303.2	2717.1	2271.9	1956.0	1746.7	1586.9	1468.9	1373.8	1297.7	1233.0
25°	5537.0	4136.6	3154.8	2564.9	2161.5	1872.3	1670.6	1518.4	1411.8	1328.1	1255.8
22.5°	7032.5	5183.1	3847.4	2949.3	2367.0	1994.1	1758.1	1583.1	1457.5	1358.6	1278.6
20°	9293.0	6465.5	4566.6	3383.1	2648.6	2172.9	1860.9	1647.8	1495.6	1389.0	1301.5
17.5°	11454.5	8063.8	5578.8	3950.1	2945.5	2332.8	1952.2	1712.5	1533.6	1415.6	1324.3
15°	13680.7	9787.7	6549.3	4460.0	3215.6	2500.2	2058.8	1777.2	1579.3	1446.1	1343.3
12.5°	15640.6	11359.4	7652.8	5148.8	3619.0	2709.5	2172.9	1838.1	1621.1	1468.9	1362.4
10°	17337.8	12866.4	8813.5	5795.8	3953.9	2884.6	2264.3	1891.3	1651.6	1487.9	1373.8
7.5°	18700.2	14061.3	9730.6	6309.5	4220.3	3021.6	2336.6	1933.2	1678.2	1507.0	1385.2
5°	19693.4	14932.7	10396.6	6678.6	4410.6	3120.5	2389.8	1963.6	1697.2	1518.4	1392.8
2.5°	20302.3	15640.6	10937.0	6979.3	4566.6	3200.4	2431.7	1986.5	1712.5	1526.0	1400.4
0°	20504.0	15640.6	10937.0	6979.3	4566.6	3200.4	2431.7	1986.5	1712.5	1526.0	1400.4



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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°	26.6	26.6	22.8	22.8	19.0	19.0	15.2	15.2	11.4	11.4	7.6
85°	60.9	53.3	49.5	45.7	41.9	38.1	34.2	30.4	26.6	22.8	19.0
82.5°	102.7	95.1	83.7	76.1	68.5	60.9	49.5	45.7	38.1	30.4	26.6
80°	144.6	133.2	121.8	110.4	98.9	87.5	76.1	64.7	53.3	41.9	34.2
77.5°	186.5	171.2	159.8	144.6	129.4	114.2	98.9	83.7	68.5	53.3	41.9
75°	235.9	216.9	197.9	178.9	159.8	140.8	125.6	106.6	87.5	68.5	53.3
72.5°	289.2	262.6	239.7	216.9	190.3	171.2	148.4	129.4	106.6	83.7	64.7
70°	346.3	315.9	285.4	255.0	228.3	197.9	175.1	148.4	125.6	98.9	76.1
67.5°	403.4	369.1	334.9	296.8	262.6	232.1	197.9	171.2	140.8	114.2	87.5
65°	471.9	426.2	384.4	342.5	300.6	262.6	228.3	190.3	159.8	129.4	98.9
62.5°	536.6	487.1	437.6	388.2	342.5	296.8	255.0	216.9	178.9	144.6	110.4
60°	601.3	548.0	490.9	437.6	384.4	334.9	285.4	239.7	197.9	159.8	121.8
57.5°	666.0	605.1	548.0	487.1	426.2	369.1	315.9	262.6	216.9	171.2	133.2
55°	723.0	666.0	601.3	536.6	471.9	403.4	346.3	289.2	235.9	186.5	144.6
52.5°	783.9	719.2	654.5	582.2	517.5	441.4	376.7	312.1	255.0	201.7	156.0
50°	841.0	772.5	700.2	631.7	555.6	479.5	407.2	338.7	274.0	216.9	163.6
47.5°	894.3	822.0	749.7	673.6	597.5	517.5	437.6	361.5	293.0	232.1	175.1
45°	940.0	875.3	795.3	715.4	639.3	551.8	468.1	384.4	312.1	247.4	182.7
42.5°	981.8	917.1	841.0	761.1	673.6	586.0	498.5	411.0	331.1	258.8	194.1
40°	1019.9	955.2	882.9	795.3	707.8	620.3	525.2	433.8	350.1	274.0	201.7
37.5°	1057.9	989.4	917.1	833.4	742.1	650.7	555.6	460.5	369.1	285.4	213.1
35°	1088.4	1023.7	947.6	867.7	772.5	681.2	582.2	483.3	384.4	296.8	224.5
32.5°	1115.0	1054.1	981.8	898.1	803.0	704.0	605.1	502.3	399.6	312.1	232.1
30°	1141.6	1080.8	1004.6	924.7	833.4	730.7	627.9	521.4	418.6	323.5	239.7
27.5°	1168.3	1103.6	1031.3	947.6	860.0	753.5	650.7	540.4	433.8	334.9	247.4
25°	1191.1	1122.6	1054.1	970.4	882.9	776.3	669.8	559.4	449.0	346.3	255.0
22.5°	1210.1	1141.6	1073.1	989.4	901.9	795.3	685.0	574.6	460.5	353.9	262.6
20°	1229.2	1160.7	1088.4	1008.5	917.1	814.4	700.2	589.9	471.9	361.5	266.4
17.5°	1248.2	1175.9	1103.6	1023.7	932.3	829.6	715.4	601.3	483.3	369.1	274.0
15°	1263.4	1187.3	1115.0	1035.1	947.6	844.8	726.8	612.7	490.9	376.7	277.8
12.5°	1274.8	1198.7	1126.4	1046.5	955.2	856.2	738.3	620.3	498.5	384.4	281.6
10°	1286.3	1210.1	1134.0	1057.9	966.6	863.8	745.9	627.9	506.1	388.2	285.4
7.5°	1293.9	1217.8	1141.6	1065.5	974.2	871.5	753.5	635.5	509.9	392.0	289.2
5°	1301.5	1221.6	1145.5	1069.3	978.0	882.9	761.1	643.1	517.5	395.8	289.2
2.5°	1305.3	1225.4	1149.3	1073.1	981.8	882.9	761.1	643.1	517.5	395.8	289.2
0°	1305.3	1225.4	1149.3	1073.1	981.8	882.9	761.1	643.1	517.5	395.8	289.2



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.6	3.8	3.8	0.0
85°	11.4	7.6	3.8	0.0
82.5°	19.0	11.4	7.6	0.0
80°	26.6	19.0	7.6	0.0
77.5°	30.4	22.8	11.4	0.0
75°	38.1	26.6	11.4	0.0
72.5°	45.7	30.4	15.2	0.0
70°	49.5	34.2	15.2	0.0
67.5°	60.9	38.1	19.0	0.0
65°	68.5	41.9	19.0	0.0
62.5°	76.1	45.7	22.8	0.0
60°	83.7	49.5	22.8	0.0
57.5°	95.1	53.3	26.6	0.0
55°	102.7	60.9	26.6	0.0
52.5°	110.4	64.7	30.4	0.0
50°	118.0	68.5	30.4	0.0
47.5°	121.8	76.1	34.2	0.0
45°	129.4	79.9	34.2	0.0
42.5°	137.0	83.7	38.1	0.0
40°	144.6	87.5	38.1	0.0
37.5°	152.2	91.3	38.1	0.0
35°	156.0	95.1	41.9	0.0
32.5°	163.6	98.9	41.9	0.0
30°	167.4	102.7	41.9	0.0
27.5°	171.2	106.6	45.7	0.0
25°	175.1	106.6	45.7	0.0
22.5°	178.9	110.4	45.7	0.0
20°	182.7	114.2	45.7	0.0
17.5°	186.5	114.2	45.7	0.0
15°	190.3	118.0	49.5	0.0
12.5°	194.1	118.0	49.5	0.0
10°	194.1	121.8	49.5	0.0
7.5°	197.9	121.8	49.5	0.0
5°	197.9	121.8	49.5	0.0
2.5°	197.9	121.8	49.5	0.0
0°	197.9	121.8	49.5	0.0

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