

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: P624212

Luminaire Tested: **EPH-VN-06-E-930-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624212
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-930-U-77
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 7 distribution lens
Light Source: (96) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

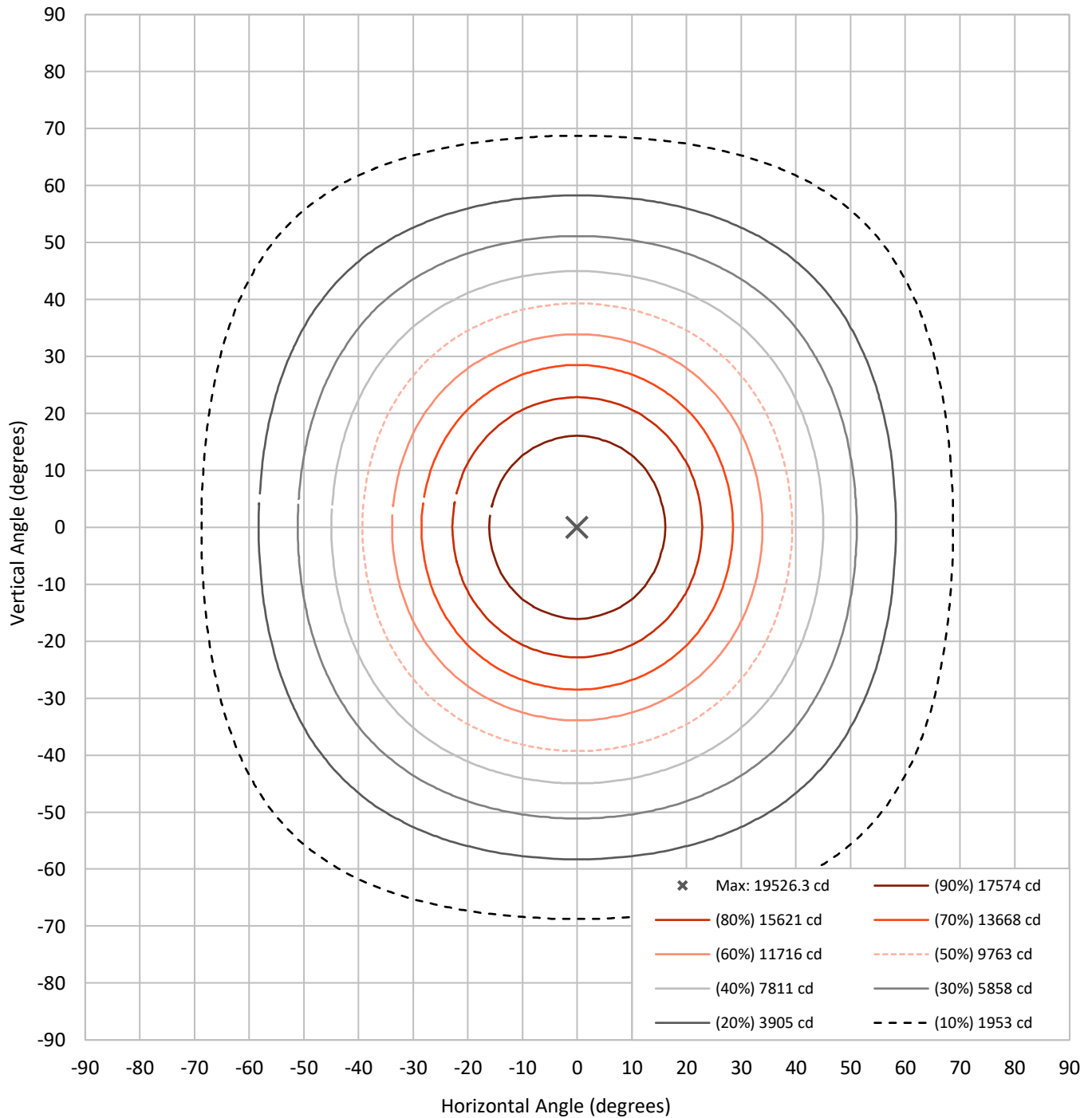
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	35157.6 lumens	Max Intensity:	19526.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	75.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	15212.3 lumens	Field Lumens:	24909.7 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

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



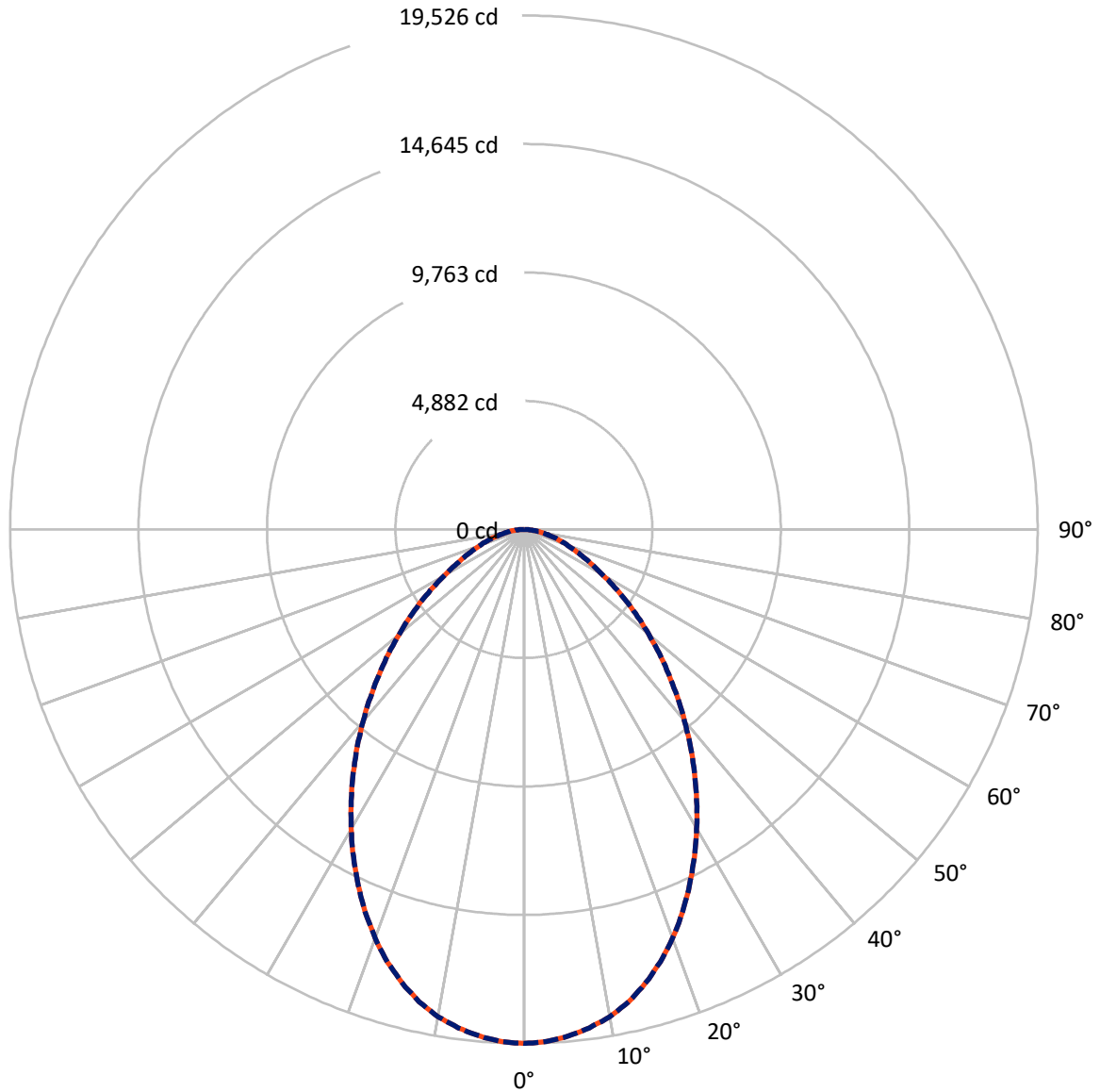
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Iso-Candela Plot



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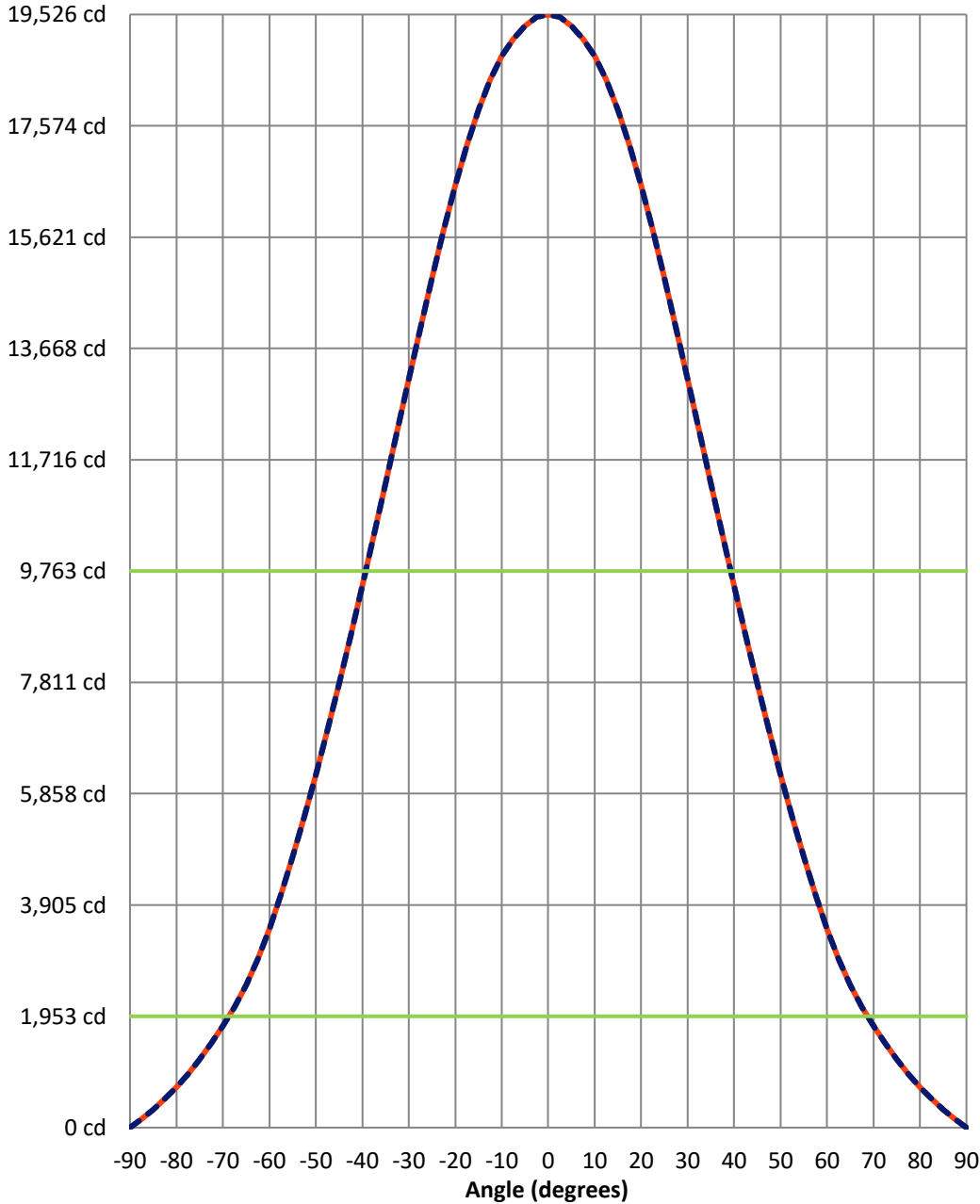
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 78.6°
V Angle: 78.6°
Lumens: 15212.3
Efficiency: 43.3%

Field:
H Angle: 137.5°
V Angle: 137.5°
Lumens: 24909.7
Efficiency: 70.9%

Spill:
Lumens: 10247.9
Efficiency: 29.1%

- Vertical Distribution through 0-Deg
- - Horizontal Distribution through 0-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°	150.3	150.3	150.3	150.3	150.3	150.3	150.3	143.0	143.0	139.3	135.6
85°	315.2	315.2	315.2	315.2	315.2	307.9	304.2	300.6	296.9	289.6	285.9
82.5°	505.8	505.8	505.8	505.8	498.5	491.2	487.5	480.2	472.9	461.9	450.9
80°	707.4	707.4	707.4	707.4	696.5	689.1	678.1	670.8	659.8	645.1	630.5
77.5°	938.4	938.4	938.4	927.4	920.1	909.1	898.1	883.4	868.7	850.4	828.4
75°	1198.6	1198.6	1198.6	1184.0	1173.0	1162.0	1143.6	1125.3	1103.3	1077.7	1048.3
72.5°	1480.9	1480.9	1480.9	1462.5	1451.6	1433.2	1411.2	1385.6	1359.9	1326.9	1290.3
70°	1785.1	1785.1	1785.1	1763.1	1744.8	1726.5	1697.1	1667.8	1631.2	1594.5	1550.5
67.5°	2115.0	2115.0	2115.0	2089.4	2067.4	2041.7	2008.7	1972.1	1928.1	1876.8	1825.4
65°	2499.9	2499.9	2485.2	2463.2	2437.6	2400.9	2360.6	2309.3	2254.3	2188.3	2118.7
62.5°	2954.4	2954.4	2932.4	2906.8	2873.8	2826.1	2771.1	2705.2	2628.2	2543.9	2459.6
60°	3482.3	3482.3	3456.6	3423.6	3376.0	3317.3	3244.0	3159.7	3064.4	2958.1	2855.5
57.5°	4090.7	4090.7	4057.8	4013.8	3955.1	3881.8	3790.2	3683.9	3562.9	3430.9	3302.7
55°	4750.5	4750.5	4710.2	4658.9	4589.3	4501.3	4391.3	4266.7	4120.1	3969.8	3804.8
52.5°	5450.7	5450.7	5403.0	5344.4	5263.7	5161.1	5036.5	4889.8	4721.2	4545.3	4351.0
50°	6187.4	6187.4	6132.4	6066.5	5974.8	5853.9	5710.9	5542.3	5355.4	5150.1	4926.5
47.5°	6975.5	6975.5	6913.2	6836.2	6726.3	6587.0	6418.4	6224.1	6011.5	5780.6	5527.6
45°	7785.6	7785.6	7716.0	7628.0	7507.0	7349.4	7162.5	6975.5	6704.3	6436.7	6143.4
42.5°	8628.7	8628.7	8548.0	8449.1	8309.8	8137.5	7924.9	7683.0	7415.4	7114.8	6795.9
40°	9504.7	9504.7	9413.1	9299.5	9145.5	8947.6	8709.3	8438.1	8137.5	7803.9	7452.0
37.5°	10399.1	10399.1	10296.5	10171.9	9999.6	9779.7	9512.1	9211.5	8874.3	8504.0	8115.5
35°	11300.9	11300.9	11187.2	11051.6	10861.0	10619.1	10329.5	9995.9	9622.0	9218.8	8782.6
32.5°	12220.9	12220.9	12096.3	11942.3	11726.1	11458.5	11139.6	10776.7	10399.1	9929.9	9453.4
30°	13130.0	13130.0	12994.3	12825.7	12594.8	12301.5	11953.3	11553.8	11110.2	10630.1	10116.9
27.5°	14024.4	13987.7	13874.1	13694.5	13441.5	13130.0	12752.4	12319.9	11839.7	11311.9	10762.0
25°	14904.1	14863.8	14739.1	14541.2	14269.9	13929.0	13522.2	13060.3	12543.5	11986.3	11385.2
22.5°	15747.2	15703.2	15571.2	15358.6	15069.0	14698.8	14262.6	13767.8	13217.9	12620.4	11986.3
20°	16527.9	16480.3	16344.6	16121.0	15820.5	15428.3	14966.4	14434.9	13848.4	13217.9	12543.5
17.5°	17231.7	17184.0	17041.1	16810.2	16527.9	16091.7	15615.2	15054.4	14434.9	13767.8	13060.3
15°	17851.2	17799.9	17653.2	17422.3	17099.7	16689.2	16187.0	15615.2	14966.4	14262.6	13522.2
12.5°	18379.0	18327.7	18177.4	17946.5	17612.9	17202.4	16689.2	16091.7	15428.3	14698.8	13929.0
10°	18796.9	18745.6	18602.6	18382.7	18038.1	17612.9	17099.7	16527.9	15820.5	15069.0	14269.9
7.5°	19097.5	19049.8	18917.8	18697.9	18382.7	17946.5	17422.3	16810.2	16121.0	15358.6	14541.2
5°	19324.7	19269.7	19137.8	18917.8	18602.6	18177.4	17653.2	17041.1	16344.6	15571.2	14739.1
2.5°	19482.3	19416.4	19269.7	19049.8	18745.6	18327.7	17799.9	17184.0	16480.3	15703.2	14863.8
0°	19526.3	19482.3	19324.7	19097.5	18796.9	18379.0	17851.2	17231.7	16527.9	15747.2	14904.1



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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°	132.0	132.0	128.3	124.6	121.0	113.6	110.0	106.3	102.6	95.3	91.6
85°	278.6	271.2	263.9	256.6	245.6	238.3	227.3	219.9	208.9	197.9	186.9
82.5°	439.9	428.9	414.2	403.2	388.5	370.2	355.6	337.2	318.9	304.2	285.9
80°	615.8	597.5	579.2	560.8	538.8	516.8	494.8	472.9	447.2	421.5	395.9
77.5°	806.4	780.8	755.1	725.8	700.1	670.8	641.5	612.1	579.2	546.2	513.2
75°	1019.0	986.0	949.4	912.7	879.7	839.4	799.1	758.8	714.8	674.5	630.5
72.5°	1249.9	1209.6	1165.6	1121.7	1074.0	1022.7	971.4	916.4	865.1	813.7	758.8
70°	1499.2	1451.6	1396.6	1341.6	1282.9	1220.6	1158.3	1092.3	1026.4	960.4	894.4
67.5°	1766.8	1708.1	1642.2	1576.2	1502.9	1429.6	1356.2	1279.3	1198.6	1118.0	1041.0
65°	2052.7	1979.4	1902.4	1818.1	1733.8	1649.5	1561.5	1469.9	1378.2	1282.9	1198.6
62.5°	2371.6	2280.0	2181.0	2078.4	1983.1	1880.4	1785.1	1671.5	1561.5	1455.2	1348.9
60°	2741.8	2620.9	2499.9	2371.6	2250.6	2118.7	2001.4	1876.8	1752.1	1631.2	1506.5
57.5°	3156.0	3002.1	2855.5	2701.5	2540.2	2393.6	2243.3	2093.0	1953.7	1810.8	1675.2
55°	3625.2	3438.3	3255.0	3064.4	2877.4	2694.2	2503.6	2334.9	2162.7	2001.4	1843.8
52.5°	4138.4	3925.8	3698.5	3482.3	3244.0	3016.7	2804.1	2591.5	2389.9	2195.7	2016.0
50°	4688.2	4439.0	4178.7	3914.8	3643.5	3376.0	3119.4	2870.1	2635.5	2408.3	2195.7
47.5°	5260.0	4977.8	4680.9	4380.3	4090.7	3764.5	3456.6	3174.4	2892.1	2635.5	2389.9
45°	5846.5	5527.6	5201.4	4860.5	4519.6	4167.7	3826.8	3482.3	3174.4	2870.1	2591.5
42.5°	6451.3	6092.1	5729.2	5351.7	4974.1	4589.3	4204.4	3826.8	3456.6	3119.4	2804.1
40°	7074.5	6678.6	6264.4	5853.9	5450.7	5010.8	4589.3	4167.7	3764.5	3376.0	3016.7
37.5°	7697.6	7265.1	6817.9	6356.0	5894.2	5450.7	4974.1	4519.6	4090.7	3643.5	3244.0
35°	8324.4	7847.9	7364.1	6861.9	6356.0	5853.9	5351.7	4860.5	4380.3	3914.8	3482.3
32.5°	8954.9	8434.4	7899.2	7364.1	6817.9	6264.4	5729.2	5201.4	4680.9	4178.7	3698.5
30°	9574.4	9009.9	8434.4	7847.9	7265.1	6678.6	6092.1	5527.6	4977.8	4439.0	3925.8
27.5°	10179.2	9574.4	8954.9	8324.4	7697.6	7074.5	6451.3	5846.5	5260.0	4688.2	4138.4
25°	10762.0	10116.9	9453.4	8782.6	8115.5	7452.0	6795.9	6143.4	5527.6	4926.5	4351.0
22.5°	11311.9	10630.1	9929.9	9218.8	8504.0	7803.9	7114.8	6436.7	5780.6	5150.1	4545.3
20°	11839.7	11110.2	10399.1	9622.0	8874.3	8137.5	7415.4	6704.3	6011.5	5355.4	4721.2
17.5°	12319.9	11553.8	10776.7	9995.9	9211.5	8438.1	7683.0	6975.5	6224.1	5542.3	4889.8
15°	12752.4	11953.3	11139.6	10329.5	9512.1	8709.3	7924.9	7162.5	6418.4	5710.9	5036.5
12.5°	13130.0	12301.5	11458.5	10619.1	9779.7	8947.6	8137.5	7349.4	6587.0	5853.9	5161.1
10°	13441.5	12594.8	11726.1	10861.0	9999.6	9145.5	8309.8	7507.0	6726.3	5974.8	5263.7
7.5°	13694.5	12825.7	11942.3	11051.6	10171.9	9299.5	8449.1	7628.0	6836.2	6066.5	5344.4
5°	13874.1	12994.3	12096.3	11187.2	10296.5	9413.1	8548.0	7716.0	6913.2	6132.4	5403.0
2.5°	13987.7	13130.0	12220.9	11300.9	10399.1	9504.7	8628.7	7785.6	6975.5	6187.4	5450.7
0°	14024.4	13130.0	12220.9	11300.9	10399.1	9504.7	8628.7	7785.6	6975.5	6187.4	5450.7



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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°	88.0	80.6	73.3	69.6	62.3	58.6	51.3	44.0	40.3	33.0	25.7
85°	175.9	161.3	150.3	139.3	128.3	113.6	102.6	91.6	77.0	66.0	51.3
82.5°	267.6	249.3	230.9	212.6	194.3	175.9	154.0	135.6	117.3	99.0	77.0
80°	370.2	340.9	315.2	289.6	263.9	238.3	208.9	183.3	154.0	128.3	102.6
77.5°	476.5	443.5	406.9	370.2	333.6	300.6	263.9	230.9	197.9	161.3	128.3
75°	590.2	546.2	505.8	458.2	414.2	366.6	322.6	278.6	238.3	197.9	154.0
72.5°	707.4	652.5	597.5	546.2	491.2	436.2	384.9	329.9	278.6	230.9	183.3
70°	828.4	762.4	696.5	634.1	571.8	505.8	447.2	384.9	322.6	263.9	208.9
67.5°	956.7	879.7	802.8	722.1	652.5	579.2	505.8	436.2	366.6	300.6	238.3
65°	1096.0	1004.4	909.1	824.7	733.1	652.5	571.8	491.2	414.2	333.6	263.9
62.5°	1239.0	1132.7	1026.4	920.1	824.7	722.1	634.1	546.2	458.2	370.2	289.6
60°	1385.6	1264.6	1143.6	1026.4	909.1	802.8	696.5	597.5	505.8	406.9	315.2
57.5°	1535.9	1400.2	1264.6	1132.7	1004.4	879.7	762.4	652.5	546.2	443.5	340.9
55°	1689.8	1535.9	1385.6	1239.0	1096.0	956.7	828.4	707.4	590.2	476.5	370.2
52.5°	1843.8	1675.2	1506.5	1348.9	1198.6	1041.0	894.4	758.8	630.5	513.2	395.9
50°	2001.4	1810.8	1631.2	1455.2	1282.9	1118.0	960.4	813.7	674.5	546.2	421.5
47.5°	2162.7	1953.7	1752.1	1561.5	1378.2	1198.6	1026.4	865.1	714.8	579.2	447.2
45°	2334.9	2093.0	1876.8	1671.5	1469.9	1279.3	1092.3	916.4	758.8	612.1	472.9
42.5°	2503.6	2243.3	2001.4	1785.1	1561.5	1356.2	1158.3	971.4	799.1	641.5	494.8
40°	2694.2	2393.6	2118.7	1880.4	1649.5	1429.6	1220.6	1022.7	839.4	670.8	516.8
37.5°	2877.4	2540.2	2250.6	1983.1	1733.8	1502.9	1282.9	1074.0	879.7	700.1	538.8
35°	3064.4	2701.5	2371.6	2078.4	1818.1	1576.2	1341.6	1121.7	912.7	725.8	560.8
32.5°	3255.0	2855.5	2499.9	2181.0	1902.4	1642.2	1396.6	1165.6	949.4	755.1	579.2
30°	3438.3	3002.1	2620.9	2280.0	1979.4	1708.1	1451.6	1209.6	986.0	780.8	597.5
27.5°	3625.2	3156.0	2741.8	2371.6	2052.7	1766.8	1499.2	1249.9	1019.0	806.4	615.8
25°	3804.8	3302.7	2855.5	2459.6	2118.7	1825.4	1550.5	1290.3	1048.3	828.4	630.5
22.5°	3969.8	3430.9	2958.1	2543.9	2188.3	1876.8	1594.5	1326.9	1077.7	850.4	645.1
20°	4120.1	3562.9	3064.4	2628.2	2254.3	1928.1	1631.2	1359.9	1103.3	868.7	659.8
17.5°	4266.7	3683.9	3159.7	2705.2	2309.3	1972.1	1667.8	1385.6	1125.3	883.4	670.8
15°	4391.3	3790.2	3244.0	2771.1	2360.6	2008.7	1697.1	1411.2	1143.6	898.1	678.1
12.5°	4501.3	3881.8	3317.3	2826.1	2400.9	2041.7	1726.5	1433.2	1162.0	909.1	689.1
10°	4589.3	3955.1	3376.0	2873.8	2437.6	2067.4	1744.8	1451.6	1173.0	920.1	696.5
7.5°	4658.9	4013.8	3423.6	2906.8	2463.2	2089.4	1763.1	1462.5	1184.0	927.4	707.4
5°	4710.2	4057.8	3456.6	2932.4	2485.2	2115.0	1785.1	1480.9	1198.6	938.4	707.4
2.5°	4750.5	4090.7	3482.3	2954.4	2499.9	2115.0	1785.1	1480.9	1198.6	938.4	707.4
0°	4750.5	4090.7	3482.3	2954.4	2499.9	2115.0	1785.1	1480.9	1198.6	938.4	707.4



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	18.3	14.7	7.3	0.0
85°	40.3	25.7	14.7	0.0
82.5°	58.6	40.3	18.3	0.0
80°	77.0	51.3	25.7	0.0
77.5°	99.0	66.0	33.0	0.0
75°	117.3	77.0	40.3	0.0
72.5°	135.6	91.6	44.0	0.0
70°	154.0	102.6	51.3	0.0
67.5°	175.9	113.6	58.6	0.0
65°	194.3	128.3	62.3	0.0
62.5°	212.6	139.3	69.6	0.0
60°	230.9	150.3	73.3	0.0
57.5°	249.3	161.3	80.6	0.0
55°	267.6	175.9	88.0	0.0
52.5°	285.9	186.9	91.6	0.0
50°	304.2	197.9	95.3	0.0
47.5°	318.9	208.9	102.6	0.0
45°	337.2	219.9	106.3	0.0
42.5°	355.6	227.3	110.0	0.0
40°	370.2	238.3	113.6	0.0
37.5°	388.5	245.6	121.0	0.0
35°	403.2	256.6	124.6	0.0
32.5°	414.2	263.9	128.3	0.0
30°	428.9	271.2	132.0	0.0
27.5°	439.9	278.6	132.0	0.0
25°	450.9	285.9	135.6	0.0
22.5°	461.9	289.6	139.3	0.0
20°	472.9	296.9	143.0	0.0
17.5°	480.2	300.6	143.0	0.0
15°	487.5	304.2	150.3	0.0
12.5°	491.2	307.9	150.3	0.0
10°	498.5	315.2	150.3	0.0
7.5°	505.8	315.2	150.3	0.0
5°	505.8	315.2	150.3	0.0
2.5°	505.8	315.2	150.3	0.0
0°	505.8	315.2	150.3	0.0

(END OF REPORT)