

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: P624158

Luminaire Tested: **EPH-VN-06-E-930-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624158
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-55
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens
Light Source: (96) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

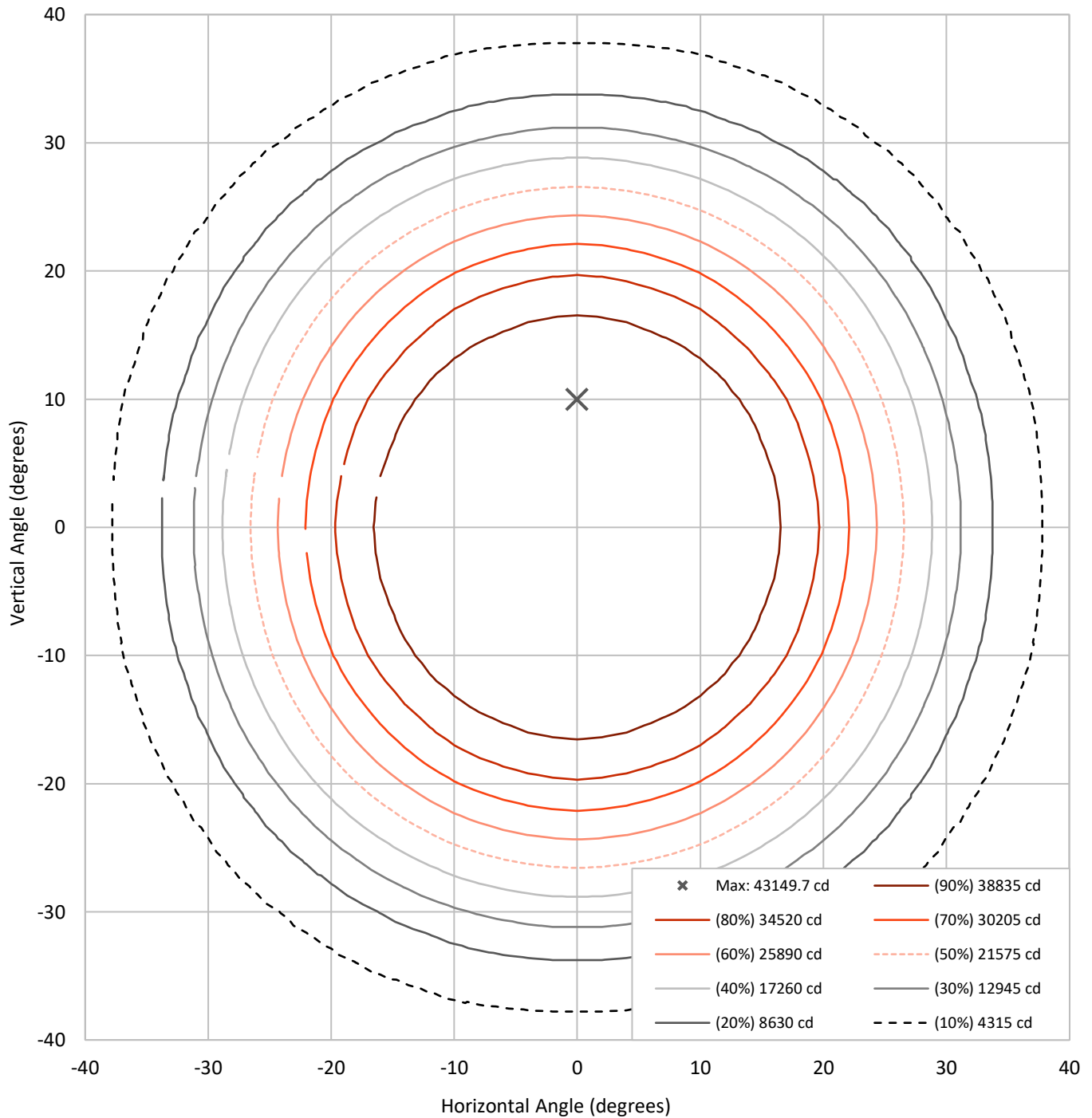
Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	35309.5 lumens	Max Intensity:	43149.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	76.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	17549.7 lumens	Field Lumens:	22823.9 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





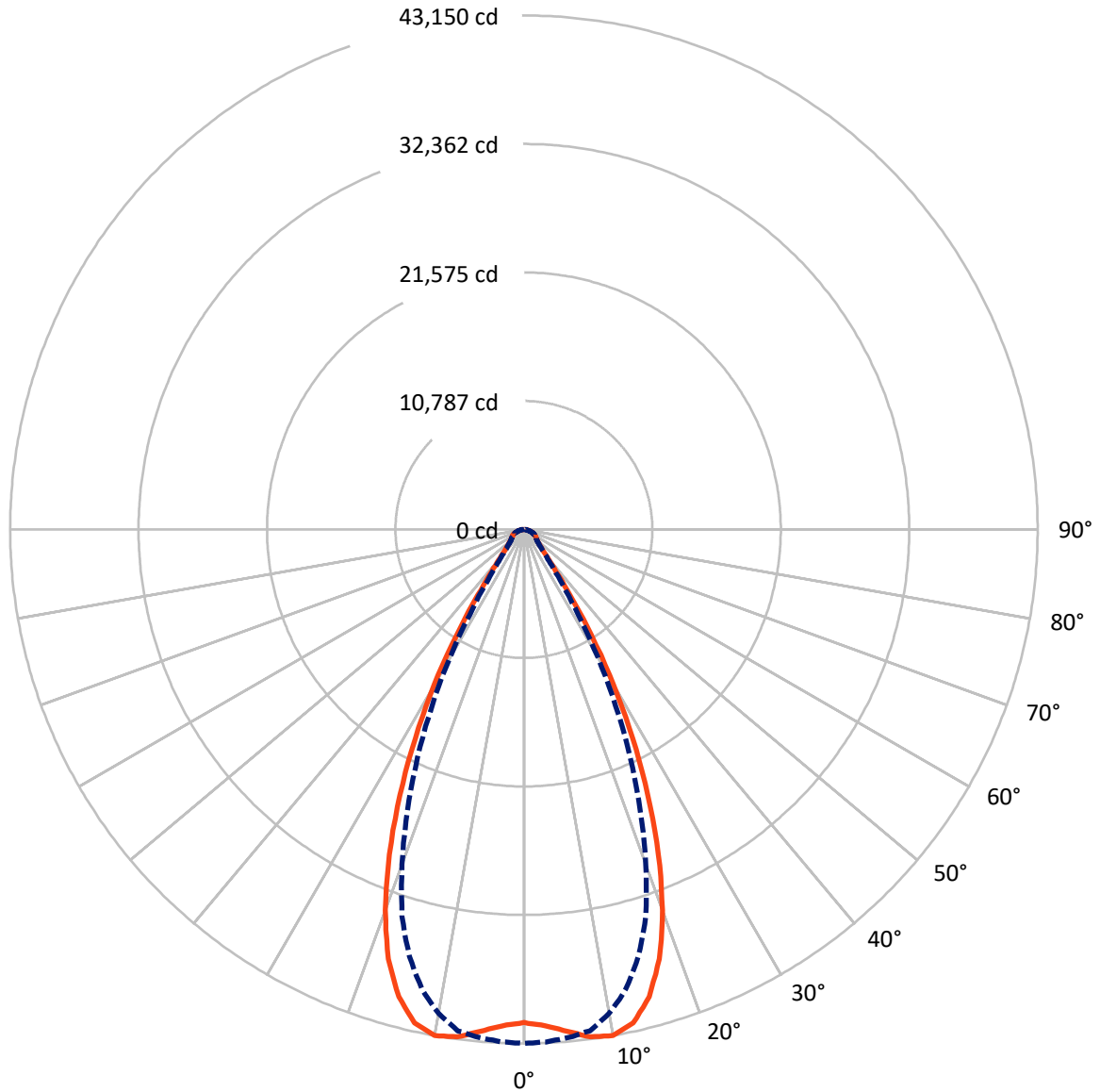
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Lumen Table

90	1.0	7.7	20.2	32.6	37.7	32.6	20.2	7.7	1.0							
80	1.0	7.7	20.2	32.6	37.7	32.6	20.2	7.7	1.0							
70	3.5	3.8	8.0	13.2	18.5	23.2	26.5	28.3	28.3	26.5	23.2	18.5	13.2	8.0	3.8	3.5
60		5.9	12.2	19.4	26.0	31.6	35.9	38.3	38.3	35.9	31.6	26.0	19.4	12.2	5.9	
50	6.3	8.0	15.8	23.8	32.0	41.4	52.4	60.8	60.8	52.4	41.4	32.0	23.8	15.8	8.0	6.3
40		9.7	18.3	27.6	41.9	74.6	145.8	219.9	219.9	145.8	74.6	41.9	27.6	18.3	9.7	
30	8.3	10.9	20.1	32.4	67.7	215.7	499.9	709.5	709.5	499.9	215.7	67.7	32.4	20.1	10.9	8.3
20		11.7	21.4	38.6	125.0	470.9	921.3	1174.4	1174.4	921.3	470.9	125.0	38.6	21.4	11.7	
10	9.1	12.1	22.2	43.6	183.4	648.6	1139.7	1292.5	1292.5	1139.7	648.6	183.4	43.6	22.2	12.1	9.1
0		12.1	22.2	43.6	183.4	648.6	1139.7	1292.5	1292.5	1139.7	648.6	183.4	43.6	22.2	12.1	
-10	8.3	11.7	21.4	38.6	125.0	470.9	921.3	1174.4	1174.4	921.3	470.9	125.0	38.6	21.4	11.7	8.3
-20		10.9	20.1	32.4	67.7	215.7	499.9	709.5	709.5	499.9	215.7	67.7	32.4	20.1	10.9	
-30	6.3	9.7	18.3	27.6	41.9	74.6	145.8	219.9	219.9	145.8	74.6	41.9	27.6	18.3	9.7	6.3
-40		8.0	15.8	23.8	32.0	41.4	52.4	60.8	60.8	52.4	41.4	32.0	23.8	15.8	8.0	
-50	3.5	5.9	12.2	19.4	26.0	31.6	35.9	38.3	38.3	35.9	31.6	26.0	19.4	12.2	5.9	3.5
-60		3.8	8.0	13.2	18.5	23.2	26.5	28.3	28.3	26.5	23.2	18.5	13.2	8.0	3.8	
-70	1.0	7.7	20.2	32.6	37.7	32.6	20.2	7.7	1.0							
-80		1.0	7.7	20.2	32.6	37.7	32.6	20.2	7.7	1.0						
-90	1.0	7.7	20.2	32.6	37.7	32.6	20.2	7.7	1.0							

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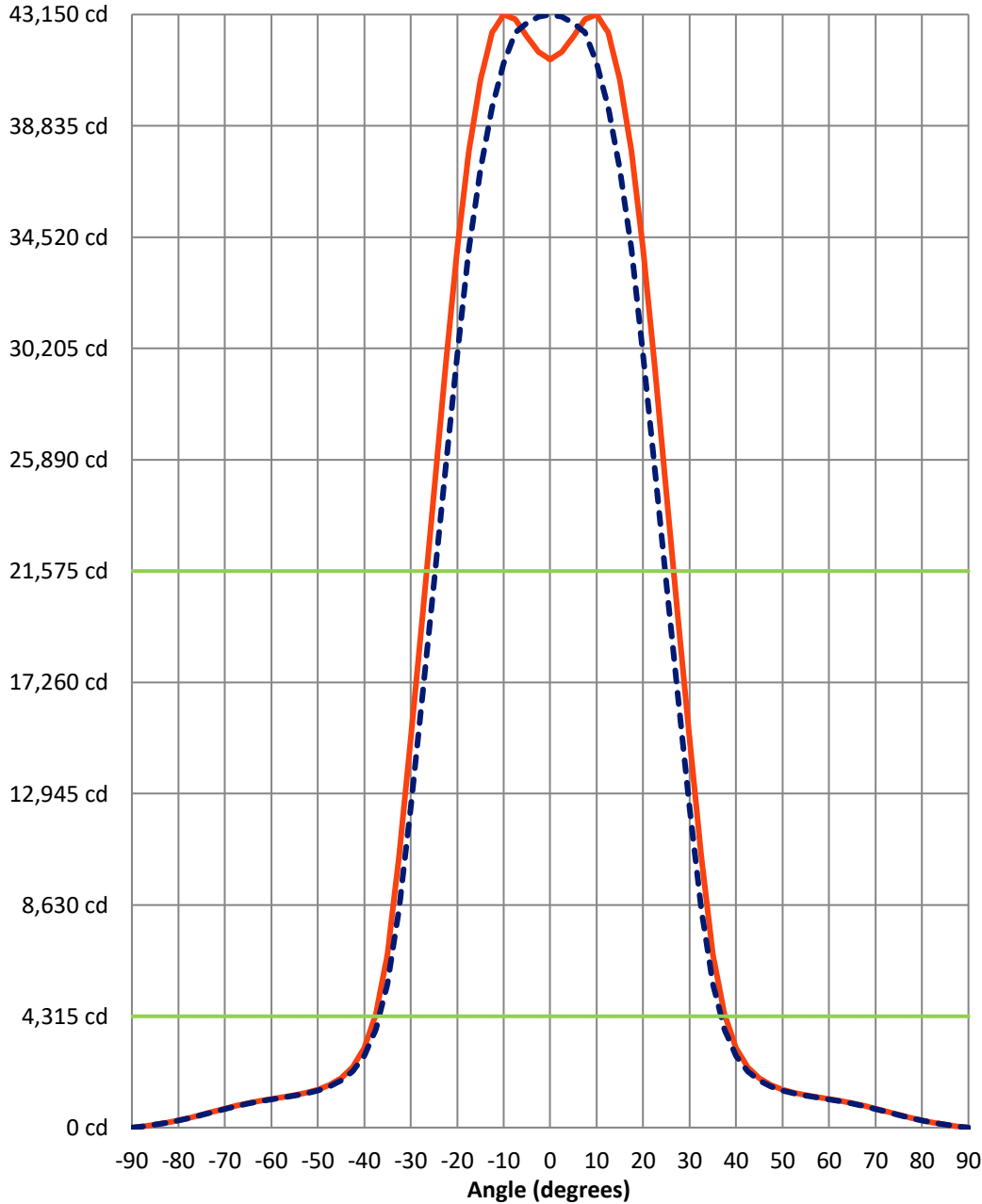
Luminous Intensity Polar Plot



— 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: 17549.7
 Efficiency: 49.7%

Field:
 H Angle: 73.6°
 V Angle: 75.3°
 Lumens: 22823.9
 Efficiency: 64.6%

Spill:
 Lumens: 12485.6
 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°	47.7	47.7	47.7	47.7	47.7	47.7	47.7	44.0	44.0	44.0	44.0
85°	117.4	117.4	117.4	117.4	117.4	113.7	113.7	110.0	110.0	106.4	102.7
82.5°	190.7	190.7	190.7	190.7	187.1	187.1	183.4	179.7	176.1	172.4	168.7
80°	278.8	278.8	278.8	278.8	275.1	271.4	267.8	264.1	256.8	253.1	245.8
77.5°	381.5	381.5	381.5	377.8	374.1	370.5	363.1	355.8	348.5	341.1	333.8
75°	498.8	498.8	498.8	491.5	487.8	480.5	473.2	465.8	454.8	443.8	432.8
72.5°	619.9	619.9	619.9	612.5	605.2	597.9	590.5	579.5	568.5	553.9	539.2
70°	733.6	733.6	733.6	726.3	718.9	711.6	700.6	689.6	674.9	660.2	645.6
67.5°	851.0	851.0	851.0	840.0	832.6	825.3	814.3	799.6	784.9	766.6	748.3
65°	946.3	946.3	942.7	939.0	931.7	920.7	913.3	898.6	884.0	869.3	851.0
62.5°	1034.4	1034.4	1030.7	1027.0	1019.7	1008.7	997.7	986.7	972.0	953.7	935.3
60°	1107.7	1107.7	1104.1	1100.4	1093.0	1085.7	1074.7	1063.7	1049.0	1034.4	1016.0
57.5°	1181.1	1181.1	1177.4	1173.7	1166.4	1155.4	1144.4	1133.4	1118.7	1100.4	1082.0
55°	1258.1	1258.1	1254.4	1247.1	1239.8	1228.8	1217.8	1203.1	1184.7	1166.4	1148.1
52.5°	1349.8	1349.8	1342.5	1335.1	1324.1	1313.1	1294.8	1276.4	1254.4	1232.4	1210.4
50°	1470.8	1470.8	1463.5	1452.5	1434.2	1415.8	1393.8	1364.5	1338.8	1309.5	1280.1
47.5°	1650.6	1650.6	1635.9	1617.6	1591.9	1562.5	1522.2	1478.2	1441.5	1404.8	1360.8
45°	1914.7	1914.7	1892.7	1863.3	1823.0	1771.6	1712.9	1650.6	1588.2	1525.9	1463.5
42.5°	2343.8	2343.8	2303.5	2252.1	2182.4	2094.4	1984.4	1881.7	1793.6	1694.6	1610.2
40°	3084.7	3084.7	3007.7	2912.3	2780.3	2611.6	2409.8	2248.4	2094.4	1922.0	1804.6
37.5°	4401.5	4401.5	4251.1	4067.7	3811.0	3488.2	3099.4	2839.0	2552.9	2281.5	2083.4
35°	6727.0	6727.0	6437.2	6081.4	5586.3	4962.7	4298.8	3807.3	3260.8	2842.7	2472.2
32.5°	10541.7	10541.7	10020.8	9378.9	8495.0	7376.2	6312.5	5377.2	4401.5	3708.3	3040.7
30°	15075.2	15075.2	14393.0	13553.1	12401.3	10948.8	9434.0	7772.4	6231.8	4995.7	3987.1
27.5°	19762.9	19568.5	18981.6	18024.3	16711.1	15075.2	13186.3	11040.5	8957.1	6778.4	5336.9
25°	24611.9	24384.5	23713.3	22612.9	21109.0	19256.7	17129.3	14730.5	12159.2	9562.3	7068.1
22.5°	29512.3	29255.5	28492.6	27249.2	25561.9	23485.8	21076.0	18409.4	15537.4	12537.0	9562.3
20°	34042.2	33770.8	32971.1	31676.4	29930.4	27652.6	24975.0	22018.7	18842.2	15537.4	12159.2
17.5°	37834.8	37574.4	36804.1	35568.0	34042.2	31522.3	28738.3	25488.5	22018.7	18409.4	14730.5
15°	40604.1	40380.4	39723.8	38685.8	37130.6	34900.5	32065.2	28738.3	24975.0	21076.0	17129.3
12.5°	42441.8	42262.0	41744.9	40937.9	39544.1	37673.4	34900.5	31522.3	27652.6	23485.8	19256.7
10°	43149.7	43061.7	42819.6	42449.1	41260.7	39544.1	37130.6	34042.2	29930.4	25561.9	21109.0
7.5°	42962.6	42992.0	43076.3	42981.0	42449.1	40937.9	38685.8	35568.0	31676.4	27249.2	22612.9
5°	42295.1	42452.8	42845.2	43076.3	42819.6	41744.9	39723.8	36804.1	32971.1	28492.6	23713.3
2.5°	41700.8	41946.6	42452.8	42992.0	43061.7	42262.0	40380.4	37574.4	33770.8	29255.5	24384.5
0°	41407.4	41700.8	42295.1	42962.6	43149.7	42441.8	40604.1	37834.8	34042.2	29512.3	24611.9



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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°	44.0	40.3	40.3	40.3	36.7	36.7	36.7	33.0	33.0	29.3	29.3
85°	102.7	99.0	95.4	91.7	88.0	84.4	80.7	77.0	73.4	66.0	62.4
82.5°	165.1	161.4	157.7	150.4	146.7	139.4	132.0	124.7	117.4	113.7	106.4
80°	238.4	231.1	223.7	216.4	205.4	194.4	187.1	176.1	168.7	157.7	150.4
77.5°	322.8	311.8	300.8	286.1	275.1	264.1	249.4	238.4	223.7	209.1	194.4
75°	418.1	403.5	385.1	370.5	355.8	337.5	319.1	300.8	282.4	264.1	245.8
72.5°	520.8	502.5	484.2	465.8	443.8	418.1	396.1	370.5	348.5	326.4	300.8
70°	627.2	605.2	583.2	561.2	535.5	506.2	480.5	451.2	421.8	392.5	363.1
67.5°	726.3	704.2	678.6	656.6	627.2	597.9	564.9	531.9	498.8	462.2	425.5
65°	829.0	803.3	773.9	744.6	715.2	682.2	649.2	616.2	575.9	535.5	498.8
62.5°	913.3	891.3	865.6	836.3	803.3	766.6	733.6	689.6	649.2	608.9	561.2
60°	994.0	968.3	946.3	913.3	884.0	851.0	810.6	766.6	722.6	674.9	630.9
57.5°	1063.7	1041.7	1016.0	986.7	953.7	920.7	884.0	843.6	792.3	744.6	693.2
55°	1126.1	1100.4	1074.7	1049.0	1019.7	983.0	946.3	906.0	862.0	810.6	755.6
52.5°	1188.4	1162.7	1133.4	1107.7	1074.7	1041.7	1005.0	964.7	920.7	873.0	814.3
50°	1250.8	1221.4	1192.1	1159.1	1126.1	1093.0	1056.4	1019.7	972.0	924.3	873.0
47.5°	1324.1	1287.4	1250.8	1214.1	1181.1	1140.7	1104.1	1063.7	1023.4	972.0	920.7
45°	1415.8	1360.8	1316.8	1272.8	1232.4	1192.1	1148.1	1107.7	1063.7	1019.7	964.7
42.5°	1529.5	1456.2	1397.5	1338.8	1287.4	1239.8	1195.7	1148.1	1104.1	1056.4	1005.0
40°	1683.6	1584.6	1489.2	1415.8	1349.8	1291.1	1239.8	1192.1	1140.7	1093.0	1041.7
37.5°	1885.3	1745.9	1613.9	1507.5	1423.2	1349.8	1287.4	1232.4	1181.1	1126.1	1074.7
35°	2189.8	1947.7	1779.0	1624.9	1507.5	1415.8	1338.8	1272.8	1214.1	1159.1	1107.7
32.5°	2618.9	2244.8	1973.4	1779.0	1613.9	1489.2	1397.5	1316.8	1250.8	1192.1	1133.4
30°	3183.8	2666.6	2244.8	1947.7	1745.9	1584.6	1456.2	1360.8	1287.4	1221.4	1162.7
27.5°	4078.8	3183.8	2618.9	2189.8	1885.3	1683.6	1529.5	1415.8	1324.1	1250.8	1188.4
25°	5336.9	3987.1	3040.7	2472.2	2083.4	1804.6	1610.2	1463.5	1360.8	1280.1	1210.4
22.5°	6778.4	4995.7	3708.3	2842.7	2281.5	1922.0	1694.6	1525.9	1404.8	1309.5	1232.4
20°	8957.1	6231.8	4401.5	3260.8	2552.9	2094.4	1793.6	1588.2	1441.5	1338.8	1254.4
17.5°	11040.5	7772.4	5377.2	3807.3	2839.0	2248.4	1881.7	1650.6	1478.2	1364.5	1276.4
15°	13186.3	9434.0	6312.5	4298.8	3099.4	2409.8	1984.4	1712.9	1522.2	1393.8	1294.8
12.5°	15075.2	10948.8	7376.2	4962.7	3488.2	2611.6	2094.4	1771.6	1562.5	1415.8	1313.1
10°	16711.1	12401.3	8495.0	5586.3	3811.0	2780.3	2182.4	1823.0	1591.9	1434.2	1324.1
7.5°	18024.3	13553.1	9378.9	6081.4	4067.7	2912.3	2252.1	1863.3	1617.6	1452.5	1335.1
5°	18981.6	14393.0	10020.8	6437.2	4251.1	3007.7	2303.5	1892.7	1635.9	1463.5	1342.5
2.5°	19568.5	15075.2	10541.7	6727.0	4401.5	3084.7	2343.8	1914.7	1650.6	1470.8	1349.8
0°	19762.9	15075.2	10541.7	6727.0	4401.5	3084.7	2343.8	1914.7	1650.6	1470.8	1349.8



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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°	25.7	25.7	22.0	22.0	18.3	18.3	14.7	14.7	11.0	11.0	7.3
85°	58.7	51.4	47.7	44.0	40.3	36.7	33.0	29.3	25.7	22.0	18.3
82.5°	99.0	91.7	80.7	73.4	66.0	58.7	47.7	44.0	36.7	29.3	25.7
80°	139.4	128.4	117.4	106.4	95.4	84.4	73.4	62.4	51.4	40.3	33.0
77.5°	179.7	165.1	154.1	139.4	124.7	110.0	95.4	80.7	66.0	51.4	40.3
75°	227.4	209.1	190.7	172.4	154.1	135.7	121.0	102.7	84.4	66.0	51.4
72.5°	278.8	253.1	231.1	209.1	183.4	165.1	143.0	124.7	102.7	80.7	62.4
70°	333.8	304.4	275.1	245.8	220.1	190.7	168.7	143.0	121.0	95.4	73.4
67.5°	388.8	355.8	322.8	286.1	253.1	223.7	190.7	165.1	135.7	110.0	84.4
65°	454.8	410.8	370.5	330.1	289.8	253.1	220.1	183.4	154.1	124.7	95.4
62.5°	517.2	469.5	421.8	374.1	330.1	286.1	245.8	209.1	172.4	139.4	106.4
60°	579.5	528.2	473.2	421.8	370.5	322.8	275.1	231.1	190.7	154.1	117.4
57.5°	641.9	583.2	528.2	469.5	410.8	355.8	304.4	253.1	209.1	165.1	128.4
55°	696.9	641.9	579.5	517.2	454.8	388.8	333.8	278.8	227.4	179.7	139.4
52.5°	755.6	693.2	630.9	561.2	498.8	425.5	363.1	300.8	245.8	194.4	150.4
50°	810.6	744.6	674.9	608.9	535.5	462.2	392.5	326.4	264.1	209.1	157.7
47.5°	862.0	792.3	722.6	649.2	575.9	498.8	421.8	348.5	282.4	223.7	168.7
45°	906.0	843.6	766.6	689.6	616.2	531.9	451.2	370.5	300.8	238.4	176.1
42.5°	946.3	884.0	810.6	733.6	649.2	564.9	480.5	396.1	319.1	249.4	187.1
40°	983.0	920.7	851.0	766.6	682.2	597.9	506.2	418.1	337.5	264.1	194.4
37.5°	1019.7	953.7	884.0	803.3	715.2	627.2	535.5	443.8	355.8	275.1	205.4
35°	1049.0	986.7	913.3	836.3	744.6	656.6	561.2	465.8	370.5	286.1	216.4
32.5°	1074.7	1016.0	946.3	865.6	773.9	678.6	583.2	484.2	385.1	300.8	223.7
30°	1100.4	1041.7	968.3	891.3	803.3	704.2	605.2	502.5	403.5	311.8	231.1
27.5°	1126.1	1063.7	994.0	913.3	829.0	726.3	627.2	520.8	418.1	322.8	238.4
25°	1148.1	1082.0	1016.0	935.3	851.0	748.3	645.6	539.2	432.8	333.8	245.8
22.5°	1166.4	1100.4	1034.4	953.7	869.3	766.6	660.2	553.9	443.8	341.1	253.1
20°	1184.7	1118.7	1049.0	972.0	884.0	784.9	674.9	568.5	454.8	348.5	256.8
17.5°	1203.1	1133.4	1063.7	986.7	898.6	799.6	689.6	579.5	465.8	355.8	264.1
15°	1217.8	1144.4	1074.7	997.7	913.3	814.3	700.6	590.5	473.2	363.1	267.8
12.5°	1228.8	1155.4	1085.7	1008.7	920.7	825.3	711.6	597.9	480.5	370.5	271.4
10°	1239.8	1166.4	1093.0	1019.7	931.7	832.6	718.9	605.2	487.8	374.1	275.1
7.5°	1247.1	1173.7	1100.4	1027.0	939.0	840.0	726.3	612.5	491.5	377.8	278.8
5°	1254.4	1177.4	1104.1	1030.7	942.7	851.0	733.6	619.9	498.8	381.5	278.8
2.5°	1258.1	1181.1	1107.7	1034.4	946.3	851.0	733.6	619.9	498.8	381.5	278.8
0°	1258.1	1181.1	1107.7	1034.4	946.3	851.0	733.6	619.9	498.8	381.5	278.8



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.3	3.7	3.7	0.0
85°	11.0	7.3	3.7	0.0
82.5°	18.3	11.0	7.3	0.0
80°	25.7	18.3	7.3	0.0
77.5°	29.3	22.0	11.0	0.0
75°	36.7	25.7	11.0	0.0
72.5°	44.0	29.3	14.7	0.0
70°	47.7	33.0	14.7	0.0
67.5°	58.7	36.7	18.3	0.0
65°	66.0	40.3	18.3	0.0
62.5°	73.4	44.0	22.0	0.0
60°	80.7	47.7	22.0	0.0
57.5°	91.7	51.4	25.7	0.0
55°	99.0	58.7	25.7	0.0
52.5°	106.4	62.4	29.3	0.0
50°	113.7	66.0	29.3	0.0
47.5°	117.4	73.4	33.0	0.0
45°	124.7	77.0	33.0	0.0
42.5°	132.0	80.7	36.7	0.0
40°	139.4	84.4	36.7	0.0
37.5°	146.7	88.0	36.7	0.0
35°	150.4	91.7	40.3	0.0
32.5°	157.7	95.4	40.3	0.0
30°	161.4	99.0	40.3	0.0
27.5°	165.1	102.7	44.0	0.0
25°	168.7	102.7	44.0	0.0
22.5°	172.4	106.4	44.0	0.0
20°	176.1	110.0	44.0	0.0
17.5°	179.7	110.0	44.0	0.0
15°	183.4	113.7	47.7	0.0
12.5°	187.1	113.7	47.7	0.0
10°	187.1	117.4	47.7	0.0
7.5°	190.7	117.4	47.7	0.0
5°	190.7	117.4	47.7	0.0
2.5°	190.7	117.4	47.7	0.0
0°	190.7	117.4	47.7	0.0

(END OF REPORT)