

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: P624151

Luminaire Tested: **EPH-VN-04-E-760-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624151
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-04-E-760-U-55
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

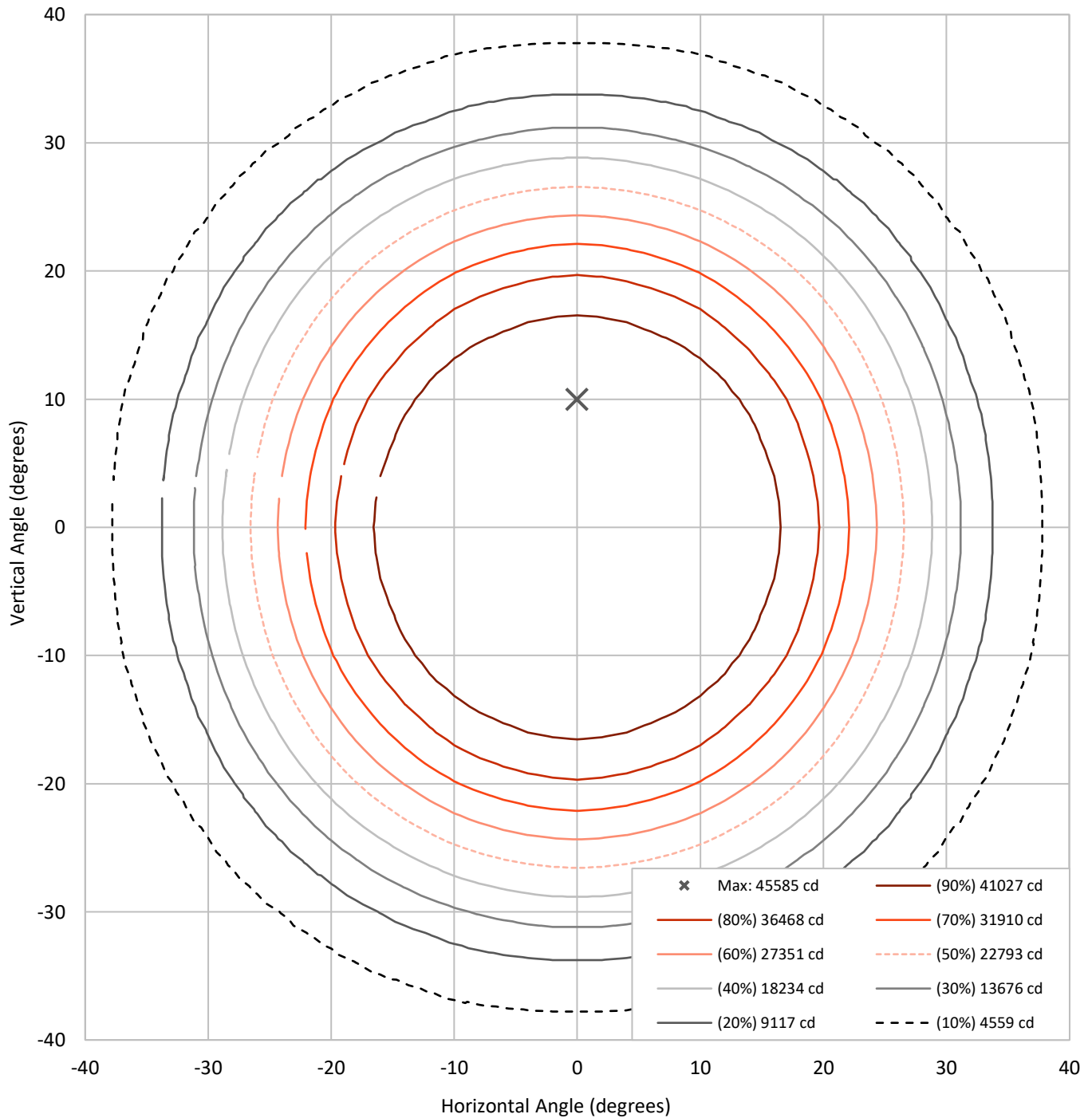
Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	37302.4 lumens	Max Intensity:	45585 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	122.8 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 0.5' x H: 0')		
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	18540.2 lumens	Field Lumens:	24112.1 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

Input Watts (W): 303.8
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





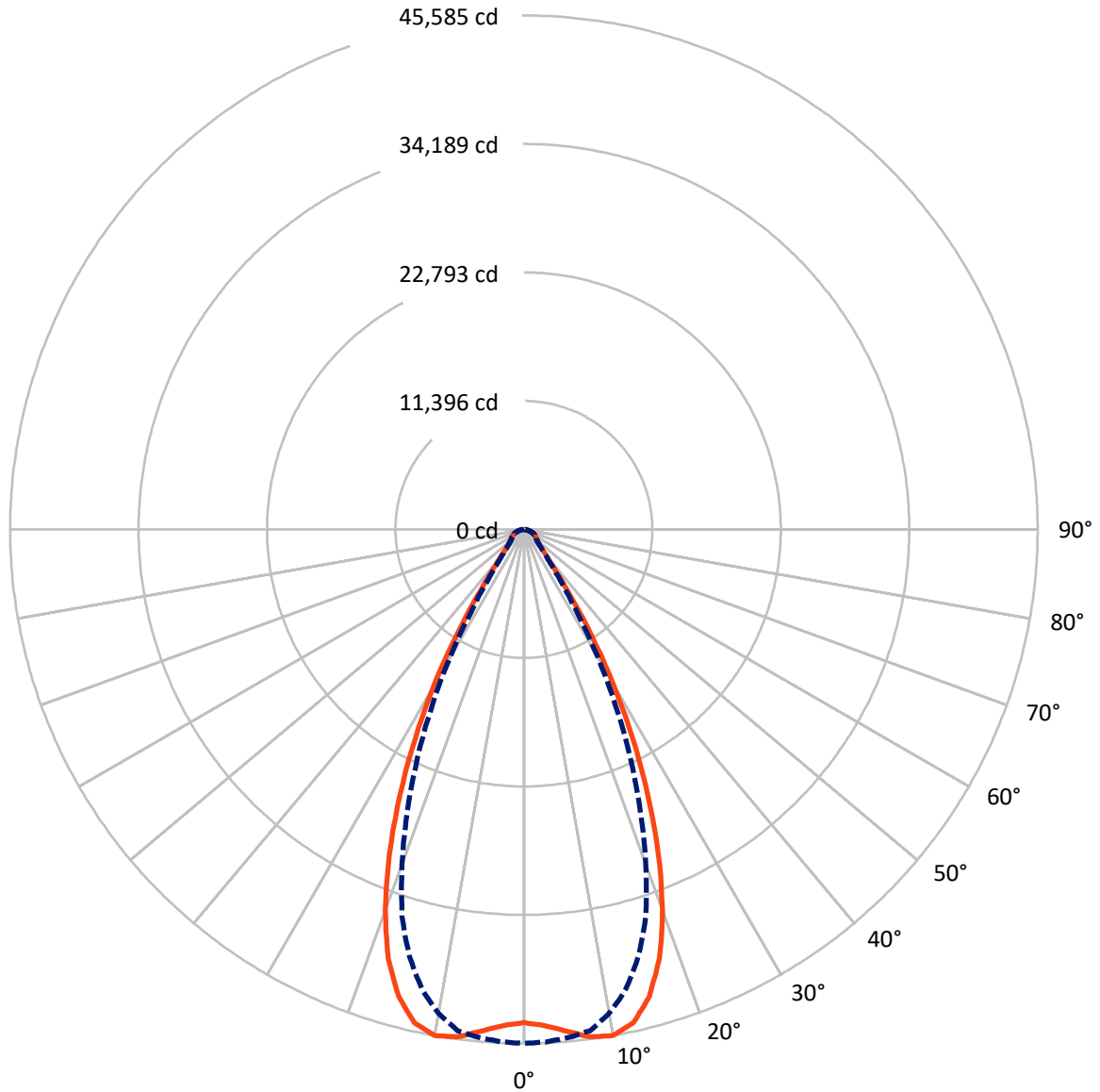
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Lumen Table

90	1.1	8.2	21.3	34.4	39.9	34.4	21.3	8.2	1.1							
80	1.1	8.2	21.3	34.4	39.9	34.4	21.3	8.2	1.1							
70	3.7	4.0	8.4	13.9	19.6	24.5	28.0	29.9	29.9	28.0	24.5	19.6	13.9	8.4	4.0	3.7
60		6.3	12.9	20.5	27.5	33.4	37.9	40.4	40.4	37.9	33.4	27.5	20.5	12.9	6.3	
50	6.6	8.4	16.6	25.2	33.8	43.7	55.3	64.3	64.3	55.3	43.7	33.8	25.2	16.6	8.4	6.6
40		10.2	19.3	29.2	44.2	78.8	154.0	232.3	232.3	154.0	78.8	44.2	29.2	19.3	10.2	
30	8.8	11.5	21.2	34.2	71.5	227.9	528.1	749.6	749.6	528.1	227.9	71.5	34.2	21.2	11.5	8.8
20		12.4	22.6	40.8	132.0	497.4	973.3	1240.7	1240.7	973.3	497.4	132.0	40.8	22.6	12.4	
10	9.6	12.8	23.4	46.1	193.8	685.2	1204.0	1365.4	1365.4	1204.0	685.2	193.8	46.1	23.4	12.8	9.6
0		12.8	23.4	46.1	193.8	685.2	1204.0	1365.4	1365.4	1204.0	685.2	193.8	46.1	23.4	12.8	
-10	8.8	12.4	22.6	40.8	132.0	497.4	973.3	1240.7	1240.7	973.3	497.4	132.0	40.8	22.6	12.4	8.8
-20		11.5	21.2	34.2	71.5	227.9	528.1	749.6	749.6	528.1	227.9	71.5	34.2	21.2	11.5	
-30	6.6	10.2	19.3	29.2	44.2	78.8	154.0	232.3	232.3	154.0	78.8	44.2	29.2	19.3	10.2	6.6
-40		8.4	16.6	25.2	33.8	43.7	55.3	64.3	64.3	55.3	43.7	33.8	25.2	16.6	8.4	
-50	3.7	6.3	12.9	20.5	27.5	33.4	37.9	40.4	40.4	37.9	33.4	27.5	20.5	12.9	6.3	3.7
-60		4.0	8.4	13.9	19.6	24.5	28.0	29.9	29.9	28.0	24.5	19.6	13.9	8.4	4.0	
-70	1.1	8.2	21.3	34.4	39.9	34.4	21.3	8.2	1.1							
-80		1.1	8.2	21.3	34.4	39.9	34.4	21.3	8.2	1.1						
-90	1.1	8.2	21.3	34.4	39.9	34.4	21.3	8.2	1.1							

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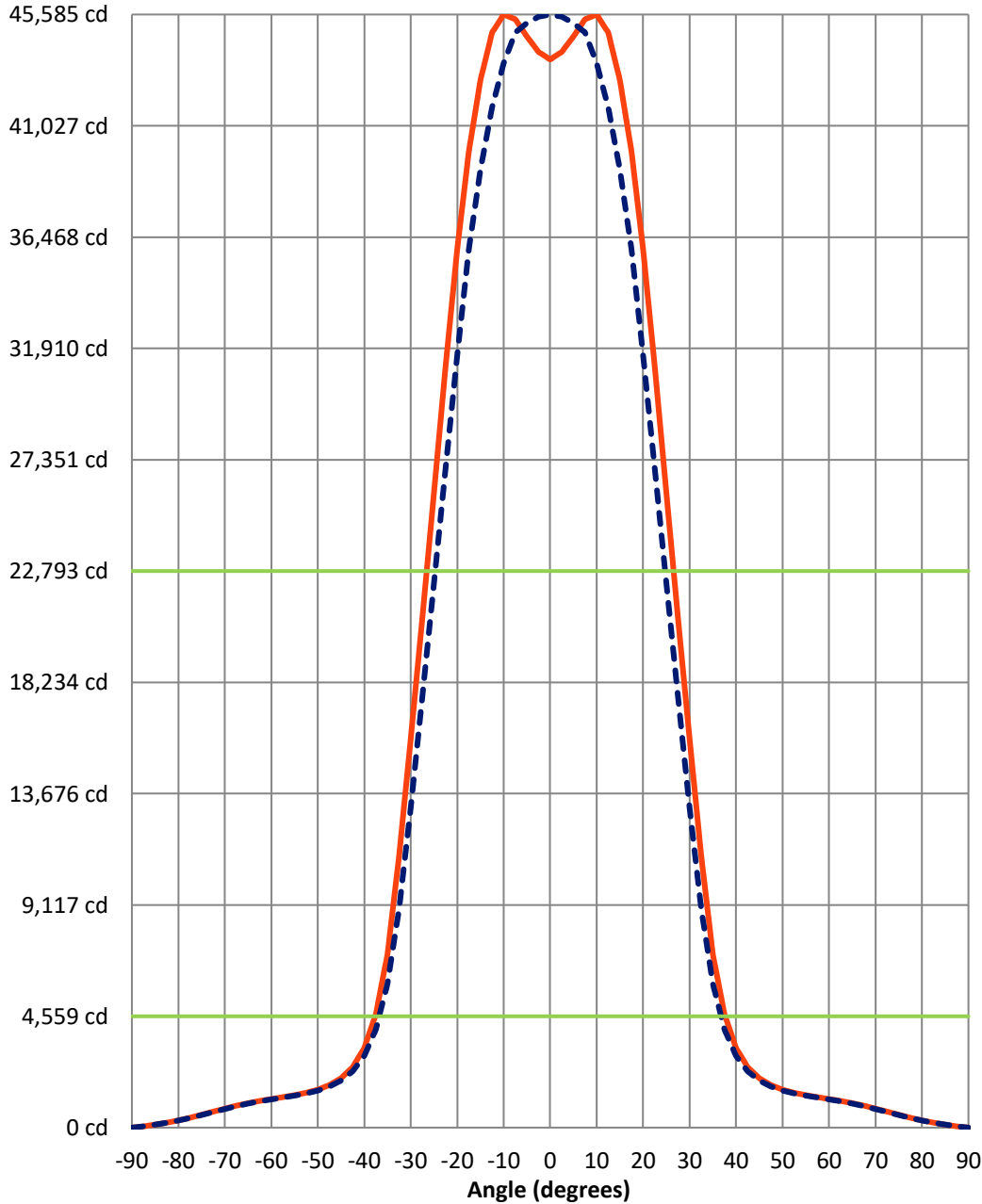
Luminous Intensity Polar Plot



— 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: 18540.2
 Efficiency: 49.7%

Field:
 H Angle: 73.6°
 V Angle: 75.3°
 Lumens: 24112.1
 Efficiency: 64.6%

Spill:
 Lumens: 13190.3
 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°	50.4	50.4	50.4	50.4	50.4	50.4	50.4	46.5	46.5	46.5	46.5
85°	124.0	124.0	124.0	124.0	124.0	120.1	120.1	116.2	116.2	112.4	108.5
82.5°	201.5	201.5	201.5	201.5	197.6	197.6	193.7	189.9	186.0	182.1	178.2
80°	294.5	294.5	294.5	294.5	290.6	286.7	282.9	279.0	271.2	267.4	259.6
77.5°	403.0	403.0	403.0	399.1	395.2	391.4	383.6	375.9	368.1	360.4	352.6
75°	527.0	527.0	527.0	519.2	515.4	507.6	499.9	492.1	480.5	468.9	457.2
72.5°	654.9	654.9	654.9	647.1	639.4	631.6	623.9	612.2	600.6	585.1	569.6
70°	775.0	775.0	775.0	767.2	759.5	751.7	740.1	728.5	713.0	697.5	682.0
67.5°	899.0	899.0	899.0	887.4	879.6	871.9	860.2	844.7	829.2	809.9	790.5
65°	999.7	999.7	995.9	992.0	984.2	972.6	964.9	949.4	933.9	918.4	899.0
62.5°	1092.7	1092.7	1088.9	1085.0	1077.2	1065.6	1054.0	1042.4	1026.9	1007.5	988.1
60°	1170.2	1170.2	1166.4	1162.5	1154.7	1147.0	1135.4	1123.7	1108.2	1092.7	1073.4
57.5°	1247.7	1247.7	1243.9	1240.0	1232.2	1220.6	1209.0	1197.4	1181.9	1162.5	1143.1
55°	1329.1	1329.1	1325.2	1317.5	1309.7	1298.1	1286.5	1271.0	1251.6	1232.2	1212.9
52.5°	1426.0	1426.0	1418.2	1410.5	1398.9	1387.2	1367.9	1348.5	1325.2	1302.0	1278.7
50°	1553.9	1553.9	1546.1	1534.5	1515.1	1495.7	1472.5	1441.5	1414.4	1383.4	1352.4
47.5°	1743.7	1743.7	1728.2	1708.9	1681.7	1650.7	1608.1	1561.6	1522.9	1484.1	1437.6
45°	2022.7	2022.7	1999.5	1968.5	1925.9	1871.6	1809.6	1743.7	1677.9	1612.0	1546.1
42.5°	2476.1	2476.1	2433.5	2379.2	2305.6	2212.6	2096.4	1987.9	1894.9	1790.2	1701.1
40°	3258.8	3258.8	3177.5	3076.7	2937.2	2759.0	2545.8	2375.4	2212.6	2030.5	1906.5
37.5°	4650.0	4650.0	4491.1	4297.3	4026.1	3685.1	3274.3	2999.2	2697.0	2410.2	2201.0
35°	7106.7	7106.7	6800.6	6424.7	5901.6	5242.8	4541.5	4022.2	3444.8	3003.1	2611.7
32.5°	11136.6	11136.6	10586.4	9908.3	8974.4	7792.5	6668.8	5680.7	4650.0	3917.6	3212.3
30°	15926.1	15926.1	15205.3	14318.0	13101.2	11566.8	9966.4	8211.0	6583.6	5277.7	4212.1
27.5°	20878.3	20672.9	20052.9	19041.6	17654.3	15926.1	13930.5	11663.6	9462.7	7160.9	5638.1
25°	26001.0	25760.7	25051.6	23889.1	22300.4	20343.5	18096.1	15561.8	12845.5	10102.0	7467.0
22.5°	31177.9	30906.7	30100.7	28787.1	27004.6	24811.4	22265.5	19448.4	16414.3	13244.6	10102.0
20°	35963.5	35676.8	34832.0	33464.2	31619.7	29213.3	26384.6	23261.4	19905.7	16414.3	12845.5
17.5°	39970.2	39695.1	38881.4	37575.5	35963.5	33301.4	30360.3	26927.1	23261.4	19448.4	15561.8
15°	42895.8	42659.4	41965.8	40869.2	39226.2	36870.2	33874.9	30360.3	26384.6	22265.5	18096.1
12.5°	44837.2	44647.3	44100.9	43248.4	41775.9	39799.7	36870.2	33301.4	29213.3	24811.4	20343.5
10°	45585.0	45492.0	45236.3	44844.9	43589.4	41775.9	39226.2	35963.5	31619.7	27004.6	22300.4
7.5°	45387.4	45418.4	45507.5	45406.8	44844.9	43248.4	40869.2	37575.5	33464.2	28787.1	23889.1
5°	44682.2	44848.8	45263.4	45507.5	45236.3	44100.9	41965.8	38881.4	34832.0	30100.7	25051.6
2.5°	44054.4	44314.0	44848.8	45418.4	45492.0	44647.3	42659.4	39695.1	35676.8	30906.7	25760.7
0°	43744.4	44054.4	44682.2	45387.4	45585.0	44837.2	42895.8	39970.2	35963.5	31177.9	26001.0



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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°	46.5	42.6	42.6	42.6	38.7	38.7	38.7	34.9	34.9	31.0	31.0
85°	108.5	104.6	100.7	96.9	93.0	89.1	85.2	81.4	77.5	69.7	65.9
82.5°	174.4	170.5	166.6	158.9	155.0	147.2	139.5	131.7	124.0	120.1	112.4
80°	251.9	244.1	236.4	228.6	217.0	205.4	197.6	186.0	178.2	166.6	158.9
77.5°	341.0	329.4	317.7	302.2	290.6	279.0	263.5	251.9	236.4	220.9	205.4
75°	441.7	426.2	406.9	391.4	375.9	356.5	337.1	317.7	298.4	279.0	259.6
72.5°	550.2	530.9	511.5	492.1	468.9	441.7	418.5	391.4	368.1	344.9	317.7
70°	662.6	639.4	616.1	592.9	565.7	534.7	507.6	476.6	445.6	414.6	383.6
67.5°	767.2	744.0	716.9	693.6	662.6	631.6	596.7	561.9	527.0	488.2	449.5
65°	875.7	848.6	817.6	786.6	755.6	720.7	685.9	651.0	608.4	565.7	527.0
62.5°	964.9	941.6	914.5	883.5	848.6	809.9	775.0	728.5	685.9	643.2	592.9
60°	1050.1	1023.0	999.7	964.9	933.9	899.0	856.4	809.9	763.4	713.0	666.5
57.5°	1123.7	1100.5	1073.4	1042.4	1007.5	972.6	933.9	891.2	837.0	786.6	732.4
55°	1189.6	1162.5	1135.4	1108.2	1077.2	1038.5	999.7	957.1	910.6	856.4	798.2
52.5°	1255.5	1228.4	1197.4	1170.2	1135.4	1100.5	1061.7	1019.1	972.6	922.2	860.2
50°	1321.4	1290.4	1259.4	1224.5	1189.6	1154.7	1116.0	1077.2	1026.9	976.5	922.2
47.5°	1398.9	1360.1	1321.4	1282.6	1247.7	1205.1	1166.4	1123.7	1081.1	1026.9	972.6
45°	1495.7	1437.6	1391.1	1344.6	1302.0	1259.4	1212.9	1170.2	1123.7	1077.2	1019.1
42.5°	1615.9	1538.4	1476.4	1414.4	1360.1	1309.7	1263.2	1212.9	1166.4	1116.0	1061.7
40°	1778.6	1674.0	1573.2	1495.7	1426.0	1364.0	1309.7	1259.4	1205.1	1154.7	1100.5
37.5°	1991.7	1844.5	1705.0	1592.6	1503.5	1426.0	1360.1	1302.0	1247.7	1189.6	1135.4
35°	2313.4	2057.6	1879.4	1716.6	1592.6	1495.7	1414.4	1344.6	1282.6	1224.5	1170.2
32.5°	2766.7	2371.5	2084.7	1879.4	1705.0	1573.2	1476.4	1391.1	1321.4	1259.4	1197.4
30°	3363.5	2817.1	2371.5	2057.6	1844.5	1674.0	1538.4	1437.6	1360.1	1290.4	1228.4
27.5°	4309.0	3363.5	2766.7	2313.4	1991.7	1778.6	1615.9	1495.7	1398.9	1321.4	1255.5
25°	5638.1	4212.1	3212.3	2611.7	2201.0	1906.5	1701.1	1546.1	1437.6	1352.4	1278.7
22.5°	7160.9	5277.7	3917.6	3003.1	2410.2	2030.5	1790.2	1612.0	1484.1	1383.4	1302.0
20°	9462.7	6583.6	4650.0	3444.8	2697.0	2212.6	1894.9	1677.9	1522.9	1414.4	1325.2
17.5°	11663.6	8211.0	5680.7	4022.2	2999.2	2375.4	1987.9	1743.7	1561.6	1441.5	1348.5
15°	13930.5	9966.4	6668.8	4541.5	3274.3	2545.8	2096.4	1809.6	1608.1	1472.5	1367.9
12.5°	15926.1	11566.8	7792.5	5242.8	3685.1	2759.0	2212.6	1871.6	1650.7	1495.7	1387.2
10°	17654.3	13101.2	8974.4	5901.6	4026.1	2937.2	2305.6	1925.9	1681.7	1515.1	1398.9
7.5°	19041.6	14318.0	9908.3	6424.7	4297.3	3076.7	2379.2	1968.5	1708.9	1534.5	1410.5
5°	20052.9	15205.3	10586.4	6800.6	4491.1	3177.5	2433.5	1999.5	1728.2	1546.1	1418.2
2.5°	20672.9	15926.1	11136.6	7106.7	4650.0	3258.8	2476.1	2022.7	1743.7	1553.9	1426.0
0°	20878.3	15926.1	11136.6	7106.7	4650.0	3258.8	2476.1	2022.7	1743.7	1553.9	1426.0



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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°	27.1	27.1	23.2	23.2	19.4	19.4	15.5	15.5	11.6	11.6	7.7
85°	62.0	54.2	50.4	46.5	42.6	38.7	34.9	31.0	27.1	23.2	19.4
82.5°	104.6	96.9	85.2	77.5	69.7	62.0	50.4	46.5	38.7	31.0	27.1
80°	147.2	135.6	124.0	112.4	100.7	89.1	77.5	65.9	54.2	42.6	34.9
77.5°	189.9	174.4	162.7	147.2	131.7	116.2	100.7	85.2	69.7	54.2	42.6
75°	240.2	220.9	201.5	182.1	162.7	143.4	127.9	108.5	89.1	69.7	54.2
72.5°	294.5	267.4	244.1	220.9	193.7	174.4	151.1	131.7	108.5	85.2	65.9
70°	352.6	321.6	290.6	259.6	232.5	201.5	178.2	151.1	127.9	100.7	77.5
67.5°	410.7	375.9	341.0	302.2	267.4	236.4	201.5	174.4	143.4	116.2	89.1
65°	480.5	434.0	391.4	348.7	306.1	267.4	232.5	193.7	162.7	131.7	100.7
62.5°	546.4	496.0	445.6	395.2	348.7	302.2	259.6	220.9	182.1	147.2	112.4
60°	612.2	558.0	499.9	445.6	391.4	341.0	290.6	244.1	201.5	162.7	124.0
57.5°	678.1	616.1	558.0	496.0	434.0	375.9	321.6	267.4	220.9	174.4	135.6
55°	736.2	678.1	612.2	546.4	480.5	410.7	352.6	294.5	240.2	189.9	147.2
52.5°	798.2	732.4	666.5	592.9	527.0	449.5	383.6	317.7	259.6	205.4	158.9
50°	856.4	786.6	713.0	643.2	565.7	488.2	414.6	344.9	279.0	220.9	166.6
47.5°	910.6	837.0	763.4	685.9	608.4	527.0	445.6	368.1	298.4	236.4	178.2
45°	957.1	891.2	809.9	728.5	651.0	561.9	476.6	391.4	317.7	251.9	186.0
42.5°	999.7	933.9	856.4	775.0	685.9	596.7	507.6	418.5	337.1	263.5	197.6
40°	1038.5	972.6	899.0	809.9	720.7	631.6	534.7	441.7	356.5	279.0	205.4
37.5°	1077.2	1007.5	933.9	848.6	755.6	662.6	565.7	468.9	375.9	290.6	217.0
35°	1108.2	1042.4	964.9	883.5	786.6	693.6	592.9	492.1	391.4	302.2	228.6
32.5°	1135.4	1073.4	999.7	914.5	817.6	716.9	616.1	511.5	406.9	317.7	236.4
30°	1162.5	1100.5	1023.0	941.6	848.6	744.0	639.4	530.9	426.2	329.4	244.1
27.5°	1189.6	1123.7	1050.1	964.9	875.7	767.2	662.6	550.2	441.7	341.0	251.9
25°	1212.9	1143.1	1073.4	988.1	899.0	790.5	682.0	569.6	457.2	352.6	259.6
22.5°	1232.2	1162.5	1092.7	1007.5	918.4	809.9	697.5	585.1	468.9	360.4	267.4
20°	1251.6	1181.9	1108.2	1026.9	933.9	829.2	713.0	600.6	480.5	368.1	271.2
17.5°	1271.0	1197.4	1123.7	1042.4	949.4	844.7	728.5	612.2	492.1	375.9	279.0
15°	1286.5	1209.0	1135.4	1054.0	964.9	860.2	740.1	623.9	499.9	383.6	282.9
12.5°	1298.1	1220.6	1147.0	1065.6	972.6	871.9	751.7	631.6	507.6	391.4	286.7
10°	1309.7	1232.2	1154.7	1077.2	984.2	879.6	759.5	639.4	515.4	395.2	290.6
7.5°	1317.5	1240.0	1162.5	1085.0	992.0	887.4	767.2	647.1	519.2	399.1	294.5
5°	1325.2	1243.9	1166.4	1088.9	995.9	899.0	775.0	654.9	527.0	403.0	294.5
2.5°	1329.1	1247.7	1170.2	1092.7	999.7	899.0	775.0	654.9	527.0	403.0	294.5
0°	1329.1	1247.7	1170.2	1092.7	999.7	899.0	775.0	654.9	527.0	403.0	294.5



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.7	3.9	3.9	0.0
85°	11.6	7.7	3.9	0.0
82.5°	19.4	11.6	7.7	0.0
80°	27.1	19.4	7.7	0.0
77.5°	31.0	23.2	11.6	0.0
75°	38.7	27.1	11.6	0.0
72.5°	46.5	31.0	15.5	0.0
70°	50.4	34.9	15.5	0.0
67.5°	62.0	38.7	19.4	0.0
65°	69.7	42.6	19.4	0.0
62.5°	77.5	46.5	23.2	0.0
60°	85.2	50.4	23.2	0.0
57.5°	96.9	54.2	27.1	0.0
55°	104.6	62.0	27.1	0.0
52.5°	112.4	65.9	31.0	0.0
50°	120.1	69.7	31.0	0.0
47.5°	124.0	77.5	34.9	0.0
45°	131.7	81.4	34.9	0.0
42.5°	139.5	85.2	38.7	0.0
40°	147.2	89.1	38.7	0.0
37.5°	155.0	93.0	38.7	0.0
35°	158.9	96.9	42.6	0.0
32.5°	166.6	100.7	42.6	0.0
30°	170.5	104.6	42.6	0.0
27.5°	174.4	108.5	46.5	0.0
25°	178.2	108.5	46.5	0.0
22.5°	182.1	112.4	46.5	0.0
20°	186.0	116.2	46.5	0.0
17.5°	189.9	116.2	46.5	0.0
15°	193.7	120.1	50.4	0.0
12.5°	197.6	120.1	50.4	0.0
10°	197.6	124.0	50.4	0.0
7.5°	201.5	124.0	50.4	0.0
5°	201.5	124.0	50.4	0.0
2.5°	201.5	124.0	50.4	0.0
0°	201.5	124.0	50.4	0.0

(END OF REPORT)