

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: P624166

Luminaire Tested: **EPH-VN-08-D-935-U-55**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P624166  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-08-D-935-U-55  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 5 distribution lens  
Light Source: (128) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

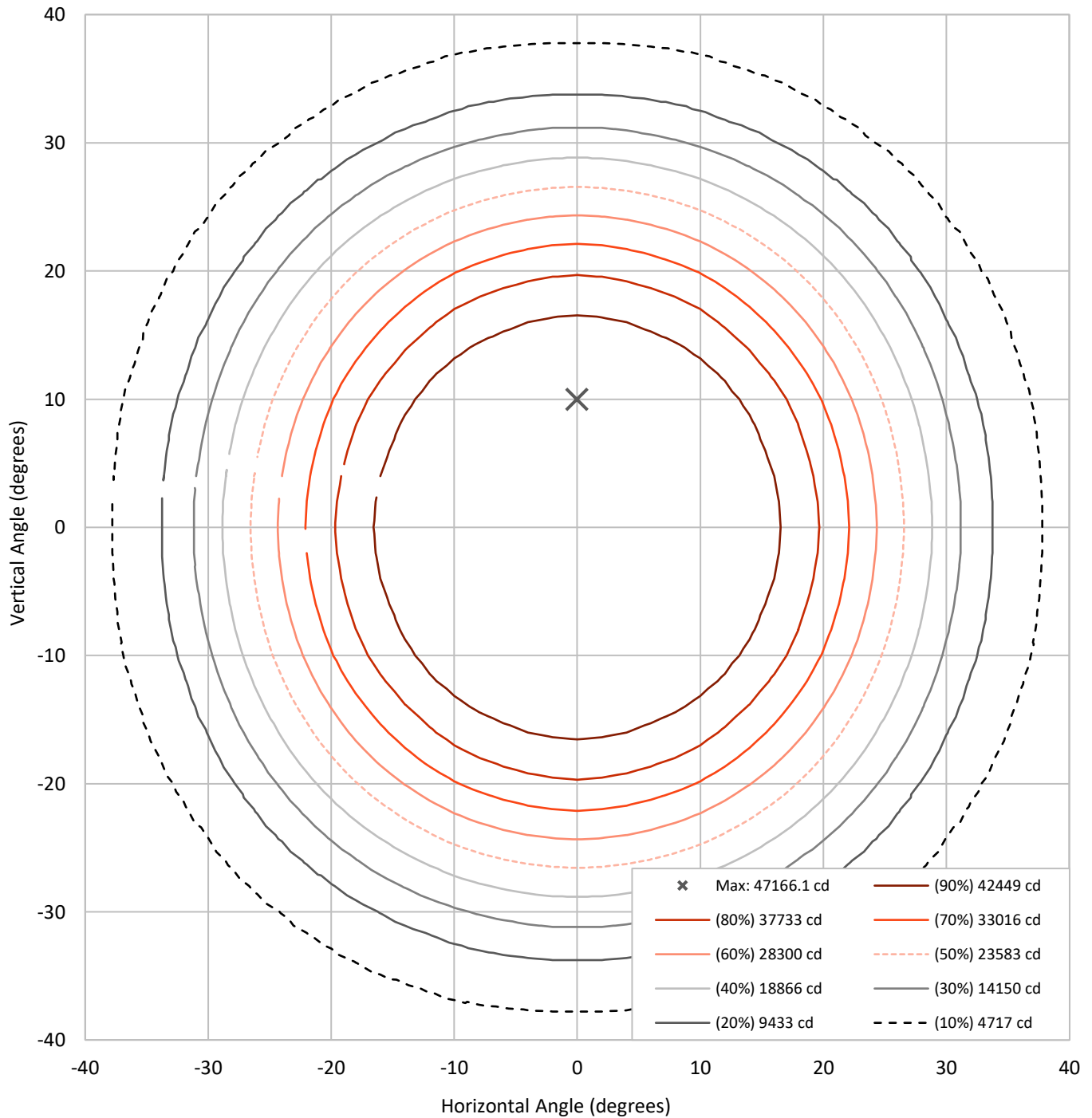
Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	38596.2 lumens	Max Intensity:	47166.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	79.0 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	19183.3 lumens	Field Lumens:	24948.4 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

Input Watts (W): 488.3  
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





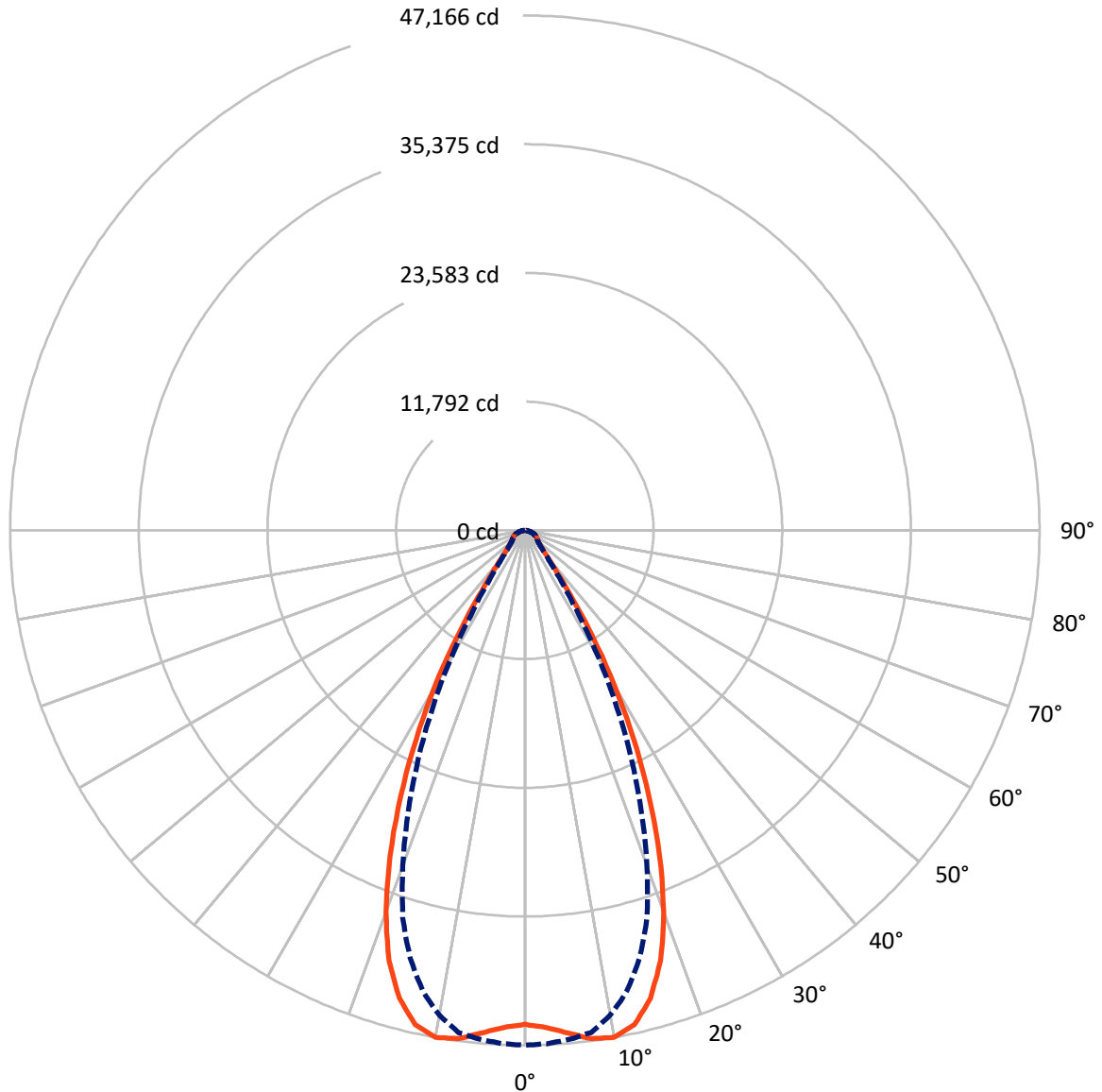
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### Lumen Table

90	1.1	8.5	22.1	35.6	41.2	35.6	22.1	8.5	1.1							
80	1.1	8.5	22.1	35.6	41.2	35.6	22.1	8.5	1.1							
70	3.9	4.2	8.7	14.4	20.2	25.3	29.0	30.9	30.9	29.0	25.3	20.2	14.4	8.7	4.2	3.9
60		6.5	13.4	21.2	28.4	34.6	39.2	41.8	41.8	39.2	34.6	28.4	21.2	13.4	6.5	
50	6.8	8.7	17.2	26.0	34.9	45.2	57.3	66.5	66.5	57.3	45.2	34.9	26.0	17.2	8.7	6.8
40		10.6	20.0	30.2	45.8	81.5	159.3	240.3	240.3	159.3	81.5	45.8	30.2	20.0	10.6	
30	9.1	11.9	22.0	35.4	74.0	235.8	546.4	775.6	775.6	546.4	235.8	74.0	35.4	22.0	11.9	9.1
20		12.8	23.4	42.2	136.6	514.7	1007.0	1283.8	1283.8	1007.0	514.7	136.6	42.2	23.4	12.8	
10	10.0	13.3	24.2	47.7	200.5	709.0	1245.8	1412.8	1412.8	1245.8	709.0	200.5	47.7	24.2	13.3	10.0
0		13.3	24.2	47.7	200.5	709.0	1245.8	1412.8	1412.8	1245.8	709.0	200.5	47.7	24.2	13.3	
-10	9.1	12.8	23.4	42.2	136.6	514.7	1007.0	1283.8	1283.8	1007.0	514.7	136.6	42.2	23.4	12.8	9.1
-20		11.9	22.0	35.4	74.0	235.8	546.4	775.6	775.6	546.4	235.8	74.0	35.4	22.0	11.9	
-30	6.8	10.6	20.0	30.2	45.8	81.5	159.3	240.3	240.3	159.3	81.5	45.8	30.2	20.0	10.6	6.8
-40		8.7	17.2	26.0	34.9	45.2	57.3	66.5	66.5	57.3	45.2	34.9	26.0	17.2	8.7	
-50	3.9	6.5	13.4	21.2	28.4	34.6	39.2	41.8	41.8	39.2	34.6	28.4	21.2	13.4	6.5	3.9
-60		4.2	8.7	14.4	20.2	25.3	29.0	30.9	30.9	29.0	25.3	20.2	14.4	8.7	4.2	
-70	1.1	8.5	22.1	35.6	41.2	35.6	22.1	8.5	1.1							
-80		1.1	8.5	22.1	35.6	41.2	35.6	22.1	8.5	1.1						
-90	1.1	8.5	22.1	35.6	41.2	35.6	22.1	8.5	1.1							

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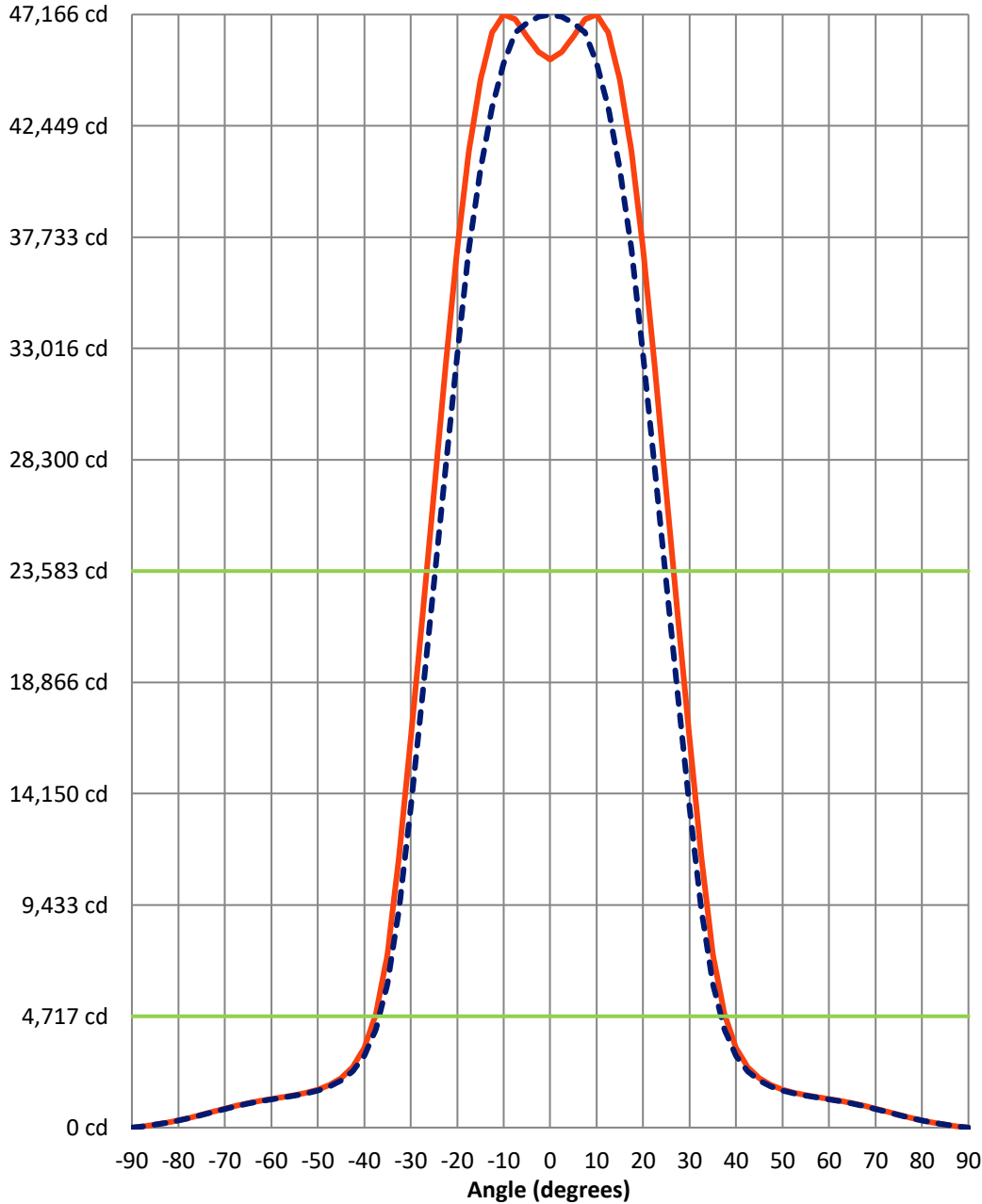
### Luminous Intensity Polar Plot



— 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: 19183.3  
 Efficiency: 49.7%

**Field:**  
 H Angle: 73.6°  
 V Angle: 75.3°  
 Lumens: 24948.4  
 Efficiency: 64.6%

**Spill:**  
 Lumens: 13647.8  
 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°	52.1	52.1	52.1	52.1	52.1	52.1	52.1	48.1	48.1	48.1	48.1
85°	128.3	128.3	128.3	128.3	128.3	124.3	124.3	120.3	120.3	116.3	112.3
82.5°	208.5	208.5	208.5	208.5	204.5	204.5	200.5	196.5	192.4	188.4	184.4
80°	304.7	304.7	304.7	304.7	300.7	296.7	292.7	288.7	280.7	276.6	268.6
77.5°	417.0	417.0	417.0	413.0	409.0	404.9	396.9	388.9	380.9	372.9	364.9
75°	545.3	545.3	545.3	537.3	533.2	525.2	517.2	509.2	497.2	485.1	473.1
72.5°	677.6	677.6	677.6	669.6	661.5	653.5	645.5	633.5	621.5	605.4	589.4
70°	801.9	801.9	801.9	793.9	785.8	777.8	765.8	753.8	737.7	721.7	705.6
67.5°	930.2	930.2	930.2	918.1	910.1	902.1	890.1	874.0	858.0	838.0	817.9
65°	1034.4	1034.4	1030.4	1026.4	1018.4	1006.3	998.3	982.3	966.3	950.2	930.2
62.5°	1130.6	1130.6	1126.6	1122.6	1114.6	1102.6	1090.5	1078.5	1062.5	1042.4	1022.4
60°	1210.8	1210.8	1206.8	1202.8	1194.8	1186.8	1174.7	1162.7	1146.7	1130.6	1110.6
57.5°	1291.0	1291.0	1287.0	1283.0	1275.0	1262.9	1250.9	1238.9	1222.9	1202.8	1182.8
55°	1375.2	1375.2	1371.2	1363.2	1355.2	1343.1	1331.1	1315.1	1295.0	1275.0	1254.9
52.5°	1475.4	1475.4	1467.4	1459.4	1447.4	1435.4	1415.3	1395.3	1371.2	1347.1	1323.1
50°	1607.8	1607.8	1599.7	1587.7	1567.7	1547.6	1523.6	1491.5	1463.4	1431.3	1399.3
47.5°	1804.2	1804.2	1788.2	1768.1	1740.1	1708.0	1663.9	1615.8	1575.7	1535.6	1487.5
45°	2092.9	2092.9	2068.8	2036.8	1992.7	1936.5	1872.4	1804.2	1736.1	1667.9	1599.7
42.5°	2562.0	2562.0	2517.9	2461.7	2385.6	2289.3	2169.1	2056.8	1960.6	1852.3	1760.1
40°	3371.9	3371.9	3287.7	3183.4	3039.1	2854.7	2634.1	2457.7	2289.3	2100.9	1972.6
37.5°	4811.2	4811.2	4646.8	4446.4	4165.7	3812.9	3387.9	3103.2	2790.5	2493.8	2277.3
35°	7353.2	7353.2	7036.4	6647.5	6106.3	5424.7	4699.0	4161.7	3564.3	3107.3	2702.3
32.5°	11522.9	11522.9	10953.6	10251.9	9285.7	8062.8	6900.1	5877.7	4811.2	4053.5	3323.8
30°	16478.5	16478.5	15732.7	14814.6	13555.6	11967.9	10312.1	8495.8	6811.9	5460.7	4358.2
27.5°	21602.4	21389.9	20748.4	19702.0	18266.6	16478.5	14413.7	12068.2	9790.9	7409.3	5833.6
25°	26902.8	26654.2	25920.5	24717.7	23073.9	21049.1	18723.7	16101.6	13291.0	10452.4	7726.0
22.5°	32259.3	31978.7	31144.7	29785.5	27941.2	25671.9	23037.8	20123.0	16983.7	13704.0	10452.4
20°	37210.9	36914.2	36040.1	34624.8	32716.4	30226.6	27299.7	24068.2	20596.1	16983.7	13291.0
17.5°	41356.6	41071.9	40229.9	38878.8	37210.9	34456.4	31413.3	27861.0	24068.2	20123.0	16101.6
15°	44383.6	44139.0	43421.4	42286.7	40586.8	38149.1	35049.8	31413.3	27299.7	23037.8	18723.7
12.5°	46392.3	46195.9	45630.5	44748.5	43224.9	41180.1	38149.1	34456.4	30226.6	25671.9	21049.1
10°	47166.1	47069.9	46805.3	46400.3	45101.3	43224.9	40586.8	37210.9	32716.4	27941.2	23073.9
7.5°	46961.6	46993.7	47085.9	46981.7	46400.3	44748.5	42286.7	38878.8	34624.8	29785.5	24717.7
5°	46231.9	46404.3	46833.3	47085.9	46805.3	45630.5	43421.4	40229.9	36040.1	31144.7	25920.5
2.5°	45582.4	45851.0	46404.3	46993.7	47069.9	46195.9	44139.0	41071.9	36914.2	31978.7	26654.2
0°	45261.7	45582.4	46231.9	46961.6	47166.1	46392.3	44383.6	41356.6	37210.9	32259.3	26902.8



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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°	48.1	44.1	44.1	44.1	40.1	40.1	40.1	36.1	36.1	32.1	32.1
85°	112.3	108.3	104.2	100.2	96.2	92.2	88.2	84.2	80.2	72.2	68.2
82.5°	180.4	176.4	172.4	164.4	160.4	152.4	144.3	136.3	128.3	124.3	116.3
80°	260.6	252.6	244.6	236.6	224.5	212.5	204.5	192.4	184.4	172.4	164.4
77.5°	352.8	340.8	328.8	312.7	300.7	288.7	272.6	260.6	244.6	228.5	212.5
75°	457.1	441.0	421.0	404.9	388.9	368.9	348.8	328.8	308.7	288.7	268.6
72.5°	569.3	549.3	529.2	509.2	485.1	457.1	433.0	404.9	380.9	356.8	328.8
70°	685.6	661.5	637.5	613.4	585.4	553.3	525.2	493.2	461.1	429.0	396.9
67.5°	793.9	769.8	741.7	717.7	685.6	653.5	617.4	581.4	545.3	505.2	465.1
65°	906.1	878.0	846.0	813.9	781.8	745.7	709.7	673.6	629.5	585.4	545.3
62.5°	998.3	974.3	946.2	914.1	878.0	838.0	801.9	753.8	709.7	665.6	613.4
60°	1086.5	1058.5	1034.4	998.3	966.3	930.2	886.1	838.0	789.8	737.7	689.6
57.5°	1162.7	1138.7	1110.6	1078.5	1042.4	1006.3	966.3	922.2	866.0	813.9	757.8
55°	1230.9	1202.8	1174.7	1146.7	1114.6	1074.5	1034.4	990.3	942.2	886.1	825.9
52.5°	1299.0	1271.0	1238.9	1210.8	1174.7	1138.7	1098.6	1054.5	1006.3	954.2	890.1
50°	1367.2	1335.1	1303.0	1267.0	1230.9	1194.8	1154.7	1114.6	1062.5	1010.4	954.2
47.5°	1447.4	1407.3	1367.2	1327.1	1291.0	1246.9	1206.8	1162.7	1118.6	1062.5	1006.3
45°	1547.6	1487.5	1439.4	1391.2	1347.1	1303.0	1254.9	1210.8	1162.7	1114.6	1054.5
42.5°	1671.9	1591.7	1527.6	1463.4	1407.3	1355.2	1307.1	1254.9	1206.8	1154.7	1098.6
40°	1840.3	1732.0	1627.8	1547.6	1475.4	1411.3	1355.2	1303.0	1246.9	1194.8	1138.7
37.5°	2060.8	1908.5	1764.1	1647.8	1555.6	1475.4	1407.3	1347.1	1291.0	1230.9	1174.7
35°	2393.6	2129.0	1944.5	1776.1	1647.8	1547.6	1463.4	1391.2	1327.1	1267.0	1210.8
32.5°	2862.7	2453.7	2157.0	1944.5	1764.1	1627.8	1527.6	1439.4	1367.2	1303.0	1238.9
30°	3480.1	2914.8	2453.7	2129.0	1908.5	1732.0	1591.7	1487.5	1407.3	1335.1	1271.0
27.5°	4458.4	3480.1	2862.7	2393.6	2060.8	1840.3	1671.9	1547.6	1447.4	1367.2	1299.0
25°	5833.6	4358.2	3323.8	2702.3	2277.3	1972.6	1760.1	1599.7	1487.5	1399.3	1323.1
22.5°	7409.3	5460.7	4053.5	3107.3	2493.8	2100.9	1852.3	1667.9	1535.6	1431.3	1347.1
20°	9790.9	6811.9	4811.2	3564.3	2790.5	2289.3	1960.6	1736.1	1575.7	1463.4	1371.2
17.5°	12068.2	8495.8	5877.7	4161.7	3103.2	2457.7	2056.8	1804.2	1615.8	1491.5	1395.3
15°	14413.7	10312.1	6900.1	4699.0	3387.9	2634.1	2169.1	1872.4	1663.9	1523.6	1415.3
12.5°	16478.5	11967.9	8062.8	5424.7	3812.9	2854.7	2289.3	1936.5	1708.0	1547.6	1435.4
10°	18266.6	13555.6	9285.7	6106.3	4165.7	3039.1	2385.6	1992.7	1740.1	1567.7	1447.4
7.5°	19702.0	14814.6	10251.9	6647.5	4446.4	3183.4	2461.7	2036.8	1768.1	1587.7	1459.4
5°	20748.4	15732.7	10953.6	7036.4	4646.8	3287.7	2517.9	2068.8	1788.2	1599.7	1467.4
2.5°	21389.9	16478.5	11522.9	7353.2	4811.2	3371.9	2562.0	2092.9	1804.2	1607.8	1475.4
0°	21602.4	16478.5	11522.9	7353.2	4811.2	3371.9	2562.0	2092.9	1804.2	1607.8	1475.4





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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°	28.1	28.1	24.1	24.1	20.0	20.0	16.0	16.0	12.0	12.0	8.0
85°	64.1	56.1	52.1	48.1	44.1	40.1	36.1	32.1	28.1	24.1	20.0
82.5°	108.3	100.2	88.2	80.2	72.2	64.1	52.1	48.1	40.1	32.1	28.1
80°	152.4	140.3	128.3	116.3	104.2	92.2	80.2	68.2	56.1	44.1	36.1
77.5°	196.5	180.4	168.4	152.4	136.3	120.3	104.2	88.2	72.2	56.1	44.1
75°	248.6	228.5	208.5	188.4	168.4	148.3	132.3	112.3	92.2	72.2	56.1
72.5°	304.7	276.6	252.6	228.5	200.5	180.4	156.4	136.3	112.3	88.2	68.2
70°	364.9	332.8	300.7	268.6	240.6	208.5	184.4	156.4	132.3	104.2	80.2
67.5°	425.0	388.9	352.8	312.7	276.6	244.6	208.5	180.4	148.3	120.3	92.2
65°	497.2	449.0	404.9	360.8	316.7	276.6	240.6	200.5	168.4	136.3	104.2
62.5°	565.3	513.2	461.1	409.0	360.8	312.7	268.6	228.5	188.4	152.4	116.3
60°	633.5	577.3	517.2	461.1	404.9	352.8	300.7	252.6	208.5	168.4	128.3
57.5°	701.6	637.5	577.3	513.2	449.0	388.9	332.8	276.6	228.5	180.4	140.3
55°	761.8	701.6	633.5	565.3	497.2	425.0	364.9	304.7	248.6	196.5	152.4
52.5°	825.9	757.8	689.6	613.4	545.3	465.1	396.9	328.8	268.6	212.5	164.4
50°	886.1	813.9	737.7	665.6	585.4	505.2	429.0	356.8	288.7	228.5	172.4
47.5°	942.2	866.0	789.8	709.7	629.5	545.3	461.1	380.9	308.7	244.6	184.4
45°	990.3	922.2	838.0	753.8	673.6	581.4	493.2	404.9	328.8	260.6	192.4
42.5°	1034.4	966.3	886.1	801.9	709.7	617.4	525.2	433.0	348.8	272.6	204.5
40°	1074.5	1006.3	930.2	838.0	745.7	653.5	553.3	457.1	368.9	288.7	212.5
37.5°	1114.6	1042.4	966.3	878.0	781.8	685.6	585.4	485.1	388.9	300.7	224.5
35°	1146.7	1078.5	998.3	914.1	813.9	717.7	613.4	509.2	404.9	312.7	236.6
32.5°	1174.7	1110.6	1034.4	946.2	846.0	741.7	637.5	529.2	421.0	328.8	244.6
30°	1202.8	1138.7	1058.5	974.3	878.0	769.8	661.5	549.3	441.0	340.8	252.6
27.5°	1230.9	1162.7	1086.5	998.3	906.1	793.9	685.6	569.3	457.1	352.8	260.6
25°	1254.9	1182.8	1110.6	1022.4	930.2	817.9	705.6	589.4	473.1	364.9	268.6
22.5°	1275.0	1202.8	1130.6	1042.4	950.2	838.0	721.7	605.4	485.1	372.9	276.6
20°	1295.0	1222.9	1146.7	1062.5	966.3	858.0	737.7	621.5	497.2	380.9	280.7
17.5°	1315.1	1238.9	1162.7	1078.5	982.3	874.0	753.8	633.5	509.2	388.9	288.7
15°	1331.1	1250.9	1174.7	1090.5	998.3	890.1	765.8	645.5	517.2	396.9	292.7
12.5°	1343.1	1262.9	1186.8	1102.6	1006.3	902.1	777.8	653.5	525.2	404.9	296.7
10°	1355.2	1275.0	1194.8	1114.6	1018.4	910.1	785.8	661.5	533.2	409.0	300.7
7.5°	1363.2	1283.0	1202.8	1122.6	1026.4	918.1	793.9	669.6	537.3	413.0	304.7
5°	1371.2	1287.0	1206.8	1126.6	1030.4	930.2	801.9	677.6	545.3	417.0	304.7
2.5°	1375.2	1291.0	1210.8	1130.6	1034.4	930.2	801.9	677.6	545.3	417.0	304.7
0°	1375.2	1291.0	1210.8	1130.6	1034.4	930.2	801.9	677.6	545.3	417.0	304.7



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	8.0	4.0	4.0	0.0
85°	12.0	8.0	4.0	0.0
82.5°	20.0	12.0	8.0	0.0
80°	28.1	20.0	8.0	0.0
77.5°	32.1	24.1	12.0	0.0
75°	40.1	28.1	12.0	0.0
72.5°	48.1	32.1	16.0	0.0
70°	52.1	36.1	16.0	0.0
67.5°	64.1	40.1	20.0	0.0
65°	72.2	44.1	20.0	0.0
62.5°	80.2	48.1	24.1	0.0
60°	88.2	52.1	24.1	0.0
57.5°	100.2	56.1	28.1	0.0
55°	108.3	64.1	28.1	0.0
52.5°	116.3	68.2	32.1	0.0
50°	124.3	72.2	32.1	0.0
47.5°	128.3	80.2	36.1	0.0
45°	136.3	84.2	36.1	0.0
42.5°	144.3	88.2	40.1	0.0
40°	152.4	92.2	40.1	0.0
37.5°	160.4	96.2	40.1	0.0
35°	164.4	100.2	44.1	0.0
32.5°	172.4	104.2	44.1	0.0
30°	176.4	108.3	44.1	0.0
27.5°	180.4	112.3	48.1	0.0
25°	184.4	112.3	48.1	0.0
22.5°	188.4	116.3	48.1	0.0
20°	192.4	120.3	48.1	0.0
17.5°	196.5	120.3	48.1	0.0
15°	200.5	124.3	52.1	0.0
12.5°	204.5	124.3	52.1	0.0
10°	204.5	128.3	52.1	0.0
7.5°	208.5	128.3	52.1	0.0
5°	208.5	128.3	52.1	0.0
2.5°	208.5	128.3	52.1	0.0
0°	208.5	128.3	52.1	0.0

(END OF REPORT)