

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: P623226

Luminaire Tested: **EPH-VN-06-E-730-U-33**

Issue Date: 10/13/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P623226  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/13/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-06-E-730-U-33  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 3 distribution lens  
Light Source: (96) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	50134.7 lumens	Max Intensity:	466511.5 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	108.0 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

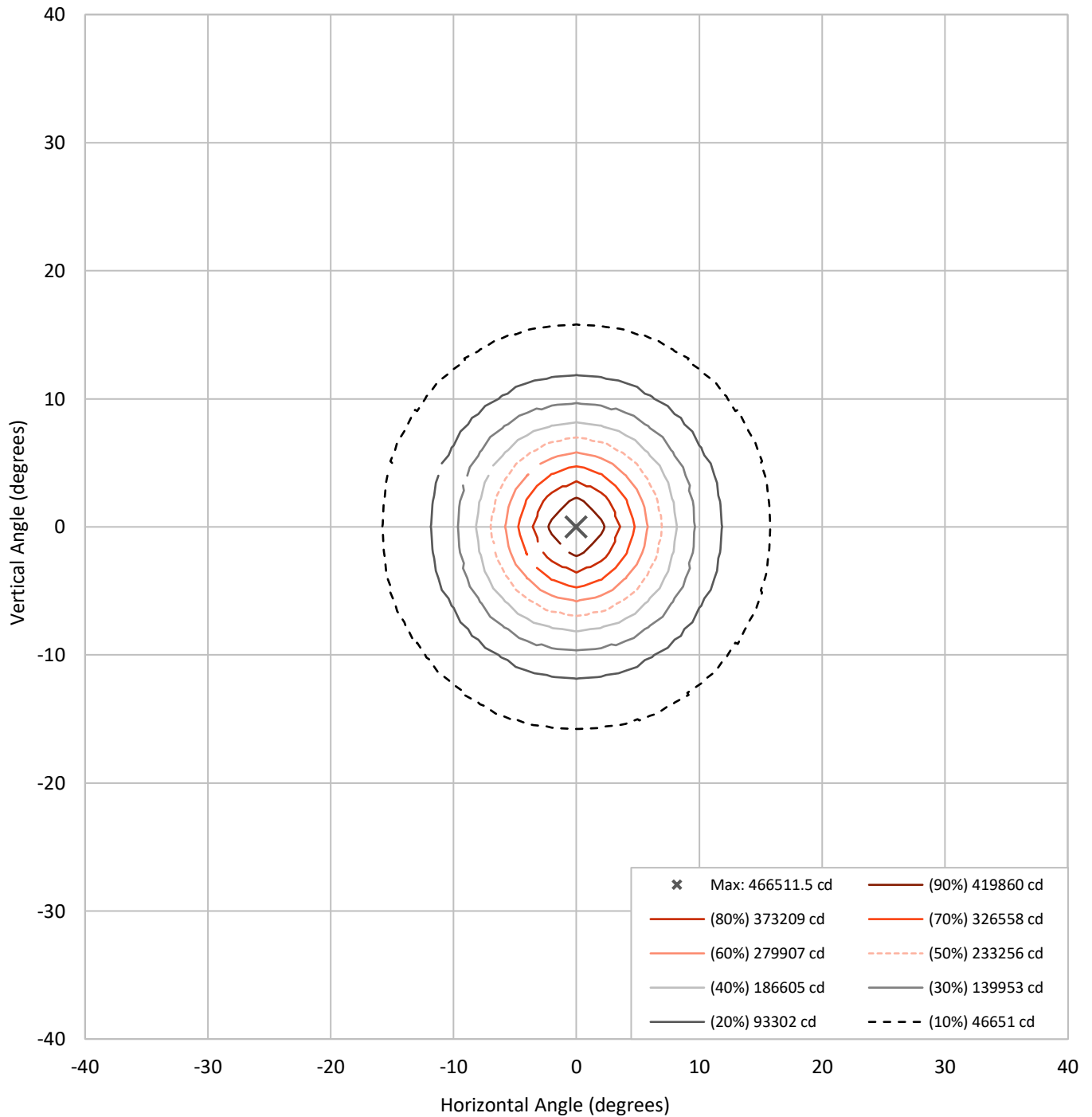
Beam Angle (50%):	13.8°H x 13.8°V	Field Angle (10%):	31.4°H x 31.4°V
Beam Lumens:	10963 lumens	Field Lumens:	25526.6 lumens
Beam Efficiency:	21.9%	Field Efficiency:	50.9%

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





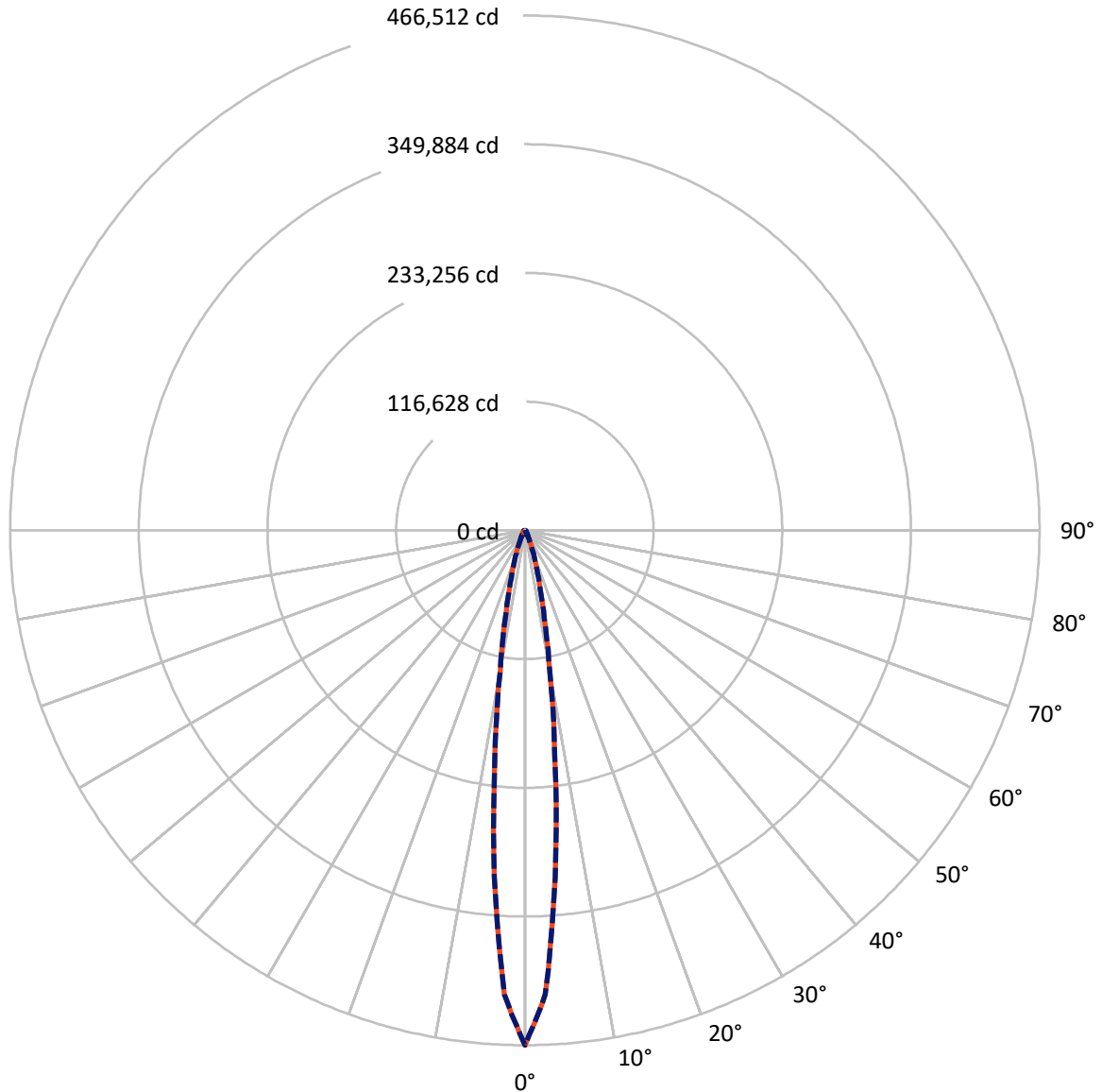
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### Lumen Table

90	0.8	6.5		17.2		28.0		32.6		28.0		17.2		6.5		0.8
80	0.8	6.5		17.2		28.0		32.6		28.0		17.2		6.5		0.8
70	3.0	3.3	6.9	11.5	16.4	20.6	23.8	25.5	25.5	23.8	20.6	16.4	11.5	6.9	3.3	3.0
60		5.1	10.7	17.4	24.0	29.8	34.3	36.8	36.8	34.3	29.8	24.0	17.4	10.7	5.1	
50	5.4	7.0	14.1	22.3	30.8	39.6	47.8	53.0	53.0	47.8	39.6	30.8	22.3	14.1	7.0	5.4
40		8.5	16.9	26.6	39.0	55.9	76.4	93.8	93.8	76.4	55.9	39.0	26.6	16.9	8.5	
30	7.2	9.8	19.0	31.0	50.6	89.3	182.3	312.0	312.0	182.3	89.3	50.6	31.0	19.0	9.8	7.2
20		10.6	20.5	35.2	65.1	171.9	618.2	1535.0	1535.0	618.2	171.9	65.1	35.2	20.5	10.6	
10	7.9	11.0	21.3	37.9	77.7	286.4	1495.7	6567.3	6567.3	1495.7	286.4	77.7	37.9	21.3	11.0	7.9
0		11.0	21.3	37.9	77.7	286.4	1495.7	6567.3	6567.3	1495.7	286.4	77.7	37.9	21.3	11.0	
-10	7.2	10.6	20.5	35.2	65.1	171.9	618.2	1535.0	1535.0	618.2	171.9	65.1	35.2	20.5	10.6	7.2
-20		9.8	19.0	31.0	50.6	89.3	182.3	312.0	312.0	182.3	89.3	50.6	31.0	19.0	9.8	
-30	5.4	8.5	16.9	26.6	39.0	55.9	76.4	93.8	93.8	76.4	55.9	39.0	26.6	16.9	8.5	5.4
-40		7.0	14.1	22.3	30.8	39.6	47.8	53.0	53.0	47.8	39.6	30.8	22.3	14.1	7.0	
-50	3.0	5.1	10.7	17.4	24.0	29.8	34.3	36.8	36.8	34.3	29.8	24.0	17.4	10.7	5.1	3.0
-60		3.3	6.9	11.5	16.4	20.6	23.8	25.5	25.5	23.8	20.6	16.4	11.5	6.9	3.3	
-70	0.8	6.5		17.2		28.0		32.6		28.0		17.2		6.5		0.8
-80		6.5		17.2		28.0		32.6		28.0		17.2		6.5		
-90	0.8	6.5		17.2		28.0		32.6		28.0		17.2		6.5		0.8

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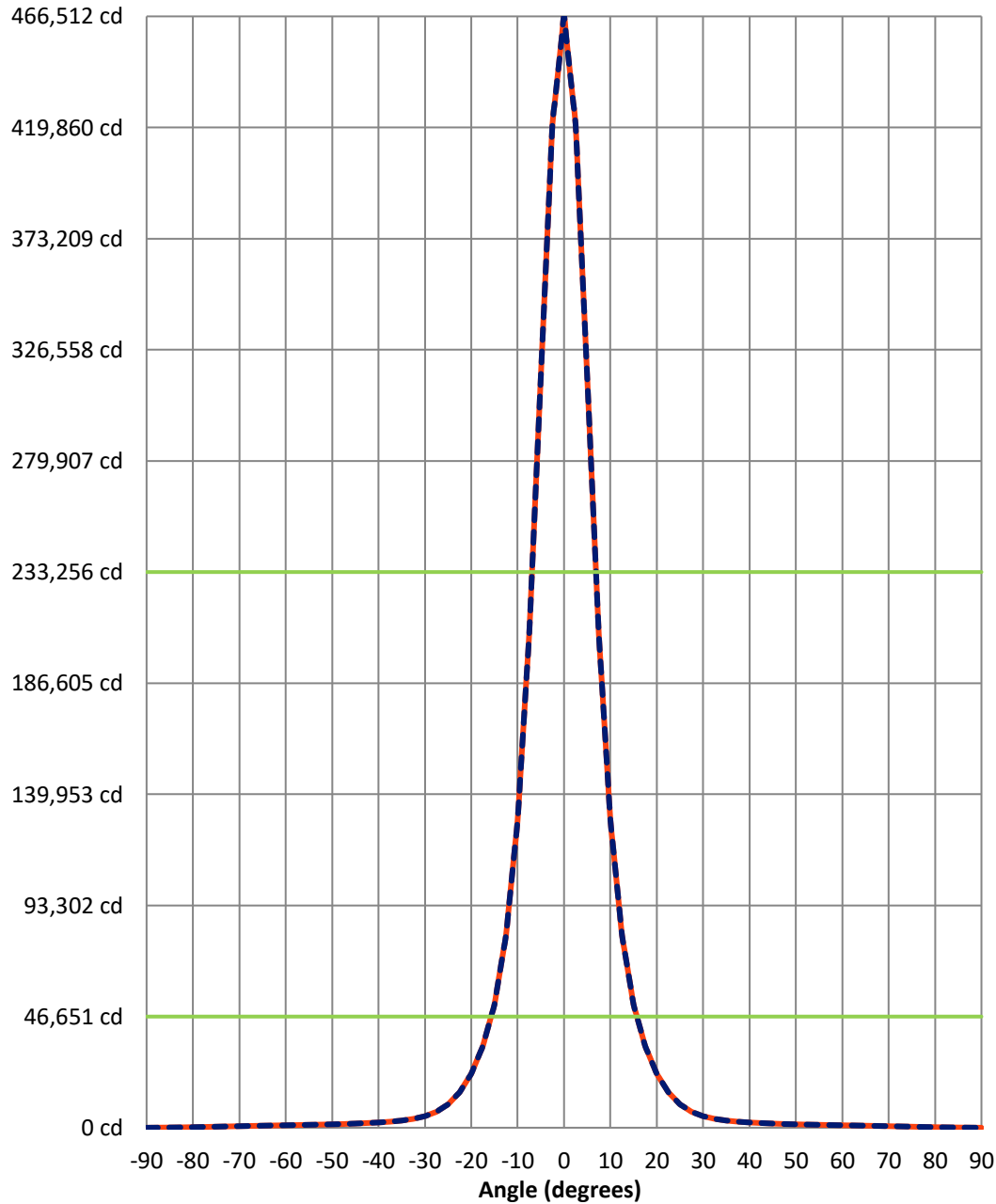
### Luminous Intensity Polar Plot



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

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 13.8°  
 V Angle: 13.8°  
 Lumens: 10963  
 Efficiency: 21.9%

**Field:**  
 H Angle: 31.4°  
 V Angle: 31.4°  
 Lumens: 25526.6  
 Efficiency: 50.9%

**Spill:**  
 Lumens: 24608.1  
 Efficiency: 49.1%

— 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°	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	41.7	36.5	36.5
85°	93.9	93.9	93.9	93.9	93.9	93.9	88.7	88.7	88.7	83.5	83.5
82.5°	156.5	156.5	156.5	156.5	151.3	151.3	151.3	146.0	146.0	140.8	140.8
80°	239.9	239.9	239.9	239.9	234.7	229.5	229.5	224.3	219.1	213.8	208.6
77.5°	328.6	328.6	328.6	323.4	323.4	318.2	312.9	307.7	302.5	292.1	286.9
75°	432.9	432.9	432.9	427.7	422.5	417.3	412.0	401.6	396.4	386.0	375.5
72.5°	542.4	542.4	542.4	537.2	532.0	521.6	516.4	505.9	495.5	479.8	469.4
70°	646.7	646.7	646.7	641.5	631.1	625.9	615.5	605.0	594.6	578.9	563.3
67.5°	751.1	751.1	751.1	740.6	735.4	730.2	719.8	704.1	693.7	678.0	657.2
65°	850.2	850.2	844.9	839.7	834.5	824.1	813.6	803.2	787.6	771.9	751.1
62.5°	949.3	949.3	944.0	938.8	933.6	923.2	907.5	897.1	876.2	860.6	839.7
60°	1032.7	1032.7	1027.5	1022.3	1017.1	1006.6	996.2	980.5	964.9	949.3	928.4
57.5°	1121.4	1121.4	1116.2	1110.9	1100.5	1090.1	1079.6	1064.0	1043.1	1022.3	1006.6
55°	1220.5	1220.5	1215.3	1204.8	1194.4	1184.0	1168.3	1147.5	1126.6	1105.7	1079.6
52.5°	1314.4	1314.4	1309.1	1298.7	1288.3	1277.8	1257.0	1241.3	1215.3	1189.2	1157.9
50°	1429.1	1429.1	1418.7	1408.2	1397.8	1376.9	1356.1	1330.0	1303.9	1272.6	1246.5
47.5°	1559.5	1559.5	1549.1	1538.6	1517.8	1496.9	1465.6	1434.3	1403.0	1366.5	1324.8
45°	1742.0	1742.0	1726.4	1705.5	1679.4	1642.9	1601.2	1559.5	1512.5	1470.8	1423.9
42.5°	1966.3	1966.3	1945.4	1919.4	1882.9	1835.9	1778.5	1721.2	1658.6	1590.8	1528.2
40°	2201.0	2201.0	2174.9	2148.9	2107.1	2049.8	1987.2	1914.2	1835.9	1747.3	1669.0
37.5°	2524.4	2524.4	2487.9	2440.9	2378.4	2300.1	2206.2	2122.8	2034.1	1935.0	1830.7
35°	3004.2	3004.2	2946.9	2868.6	2769.5	2639.1	2498.3	2378.4	2242.7	2122.8	2008.0
32.5°	3713.6	3713.6	3614.5	3499.7	3332.8	3124.2	2920.8	2727.8	2524.4	2352.3	2185.4
30°	4829.7	4829.7	4662.8	4454.2	4172.5	3812.7	3510.2	3197.2	2899.9	2649.6	2420.1
27.5°	6686.5	6608.3	6378.8	5998.0	5476.5	4829.7	4365.5	3838.7	3421.5	3014.7	2717.4
25°	9815.9	9669.9	9237.0	8522.4	7557.5	6488.3	5643.4	4746.3	4110.0	3531.0	3066.8
22.5°	14901.2	14635.2	13842.4	12548.9	10801.7	9090.9	7531.4	6149.3	5012.3	4203.8	3531.0
20°	22641.3	22177.1	20810.6	18599.1	15615.8	12971.4	10191.4	8141.7	6321.4	5012.3	4110.0
17.5°	34272.2	33469.0	31116.8	27325.0	22641.3	18333.1	14098.0	10723.4	8141.7	6149.3	4746.3
15°	51671.8	50263.5	46153.6	39618.3	32113.0	25280.4	19266.7	14098.0	10191.4	7531.4	5643.4
12.5°	80884.8	78037.0	69806.7	56970.9	45006.1	33776.8	25280.4	18333.1	12971.4	9090.9	6488.3
10°	129150.7	123267.4	106582.5	81328.1	62118.8	45006.1	32113.0	22641.3	15615.8	10801.7	7557.5
7.5°	207386.0	194758.8	160257.1	117733.6	81328.1	56970.9	39618.3	27325.0	18599.1	12548.9	8522.4
5°	315293.2	289882.4	226094.6	160257.1	106582.5	69806.7	46153.6	31116.8	20810.6	13842.4	9237.0
2.5°	421088.1	377292.0	289882.4	194758.8	123267.4	78037.0	50263.5	33469.0	22177.1	14635.2	9669.9
0°	466511.5	421088.1	315293.2	207386.0	129150.7	80884.8	51671.8	34272.2	22641.3	14901.2	9815.9



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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°	36.5	36.5	36.5	36.5	31.3	31.3	31.3	31.3	26.1	26.1	26.1
85°	83.5	78.2	78.2	73.0	73.0	67.8	67.8	62.6	62.6	57.4	52.2
82.5°	135.6	130.4	125.2	120.0	120.0	114.7	109.5	99.1	93.9	88.7	83.5
80°	203.4	193.0	187.8	177.3	172.1	161.7	151.3	146.0	135.6	130.4	120.0
77.5°	276.4	266.0	260.8	245.1	234.7	224.3	213.8	198.2	187.8	172.1	156.5
75°	359.9	349.5	333.8	318.2	307.7	292.1	276.4	260.8	239.9	224.3	208.6
72.5°	453.8	438.1	422.5	401.6	380.7	365.1	339.0	318.2	302.5	281.6	260.8
70°	547.6	532.0	511.1	490.3	464.2	443.3	417.3	391.2	365.1	339.0	312.9
67.5°	641.5	620.7	599.8	573.7	547.6	521.6	495.5	464.2	432.9	401.6	370.3
65°	730.2	709.3	683.3	657.2	631.1	599.8	568.5	537.2	500.7	464.2	432.9
62.5°	818.9	792.8	766.7	740.6	709.3	678.0	646.7	605.0	568.5	532.0	490.3
60°	902.3	876.2	850.2	818.9	787.6	751.1	714.5	678.0	636.3	594.6	552.9
57.5°	980.5	954.5	928.4	891.9	860.6	824.1	782.4	745.8	698.9	657.2	610.2
55°	1053.6	1027.5	996.2	964.9	933.6	891.9	850.2	808.4	761.5	714.5	662.4
52.5°	1126.6	1095.3	1064.0	1032.7	996.2	959.7	918.0	871.0	824.1	771.9	719.8
50°	1210.0	1173.5	1131.8	1095.3	1053.6	1017.1	975.3	928.4	881.5	824.1	771.9
47.5°	1288.3	1251.8	1210.0	1163.1	1121.4	1074.4	1027.5	985.8	933.6	881.5	824.1
45°	1376.9	1324.8	1283.1	1236.1	1184.0	1131.8	1084.9	1032.7	985.8	928.4	871.0
42.5°	1470.8	1413.4	1356.1	1298.7	1251.8	1194.4	1137.0	1084.9	1027.5	975.3	918.0
40°	1580.4	1512.5	1439.5	1376.9	1314.4	1257.0	1194.4	1131.8	1074.4	1017.1	959.7
37.5°	1721.2	1627.3	1533.4	1455.2	1382.2	1314.4	1251.8	1184.0	1121.4	1053.6	996.2
35°	1888.1	1757.7	1648.2	1538.6	1455.2	1376.9	1298.7	1236.1	1163.1	1095.3	1032.7
32.5°	2055.0	1914.2	1773.3	1648.2	1533.4	1439.5	1356.1	1283.1	1210.0	1131.8	1064.0
30°	2227.1	2070.6	1914.2	1757.7	1627.3	1512.5	1413.4	1324.8	1251.8	1173.5	1095.3
27.5°	2446.2	2227.1	2055.0	1888.1	1721.2	1580.4	1470.8	1376.9	1288.3	1210.0	1126.6
25°	2717.4	2420.1	2185.4	2008.0	1830.7	1669.0	1528.2	1423.9	1324.8	1246.5	1157.9
22.5°	3014.7	2649.6	2352.3	2122.8	1935.0	1747.3	1590.8	1470.8	1366.5	1272.6	1189.2
20°	3421.5	2899.9	2524.4	2242.7	2034.1	1835.9	1658.6	1512.5	1403.0	1303.9	1215.3
17.5°	3838.7	3197.2	2727.8	2378.4	2122.8	1914.2	1721.2	1559.5	1434.3	1330.0	1241.3
15°	4365.5	3510.2	2920.8	2498.3	2206.2	1987.2	1778.5	1601.2	1465.6	1356.1	1257.0
12.5°	4829.7	3812.7	3124.2	2639.1	2300.1	2049.8	1835.9	1642.9	1496.9	1376.9	1277.8
10°	5476.5	4172.5	3332.8	2769.5	2378.4	2107.1	1882.9	1679.4	1517.8	1397.8	1288.3
7.5°	5998.0	4454.2	3499.7	2868.6	2440.9	2148.9	1919.4	1705.5	1538.6	1408.2	1298.7
5°	6378.8	4662.8	3614.5	2946.9	2487.9	2174.9	1945.4	1726.4	1549.1	1418.7	1309.1
2.5°	6608.3	4829.7	3713.6	3004.2	2524.4	2201.0	1966.3	1742.0	1559.5	1429.1	1314.4
0°	6686.5	4829.7	3713.6	3004.2	2524.4	2201.0	1966.3	1742.0	1559.5	1429.1	1314.4





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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°	26.1	20.9	20.9	20.9	15.6	15.6	15.6	10.4	10.4	10.4	5.2
85°	46.9	46.9	41.7	36.5	36.5	31.3	26.1	26.1	20.9	15.6	15.6
82.5°	78.2	73.0	67.8	62.6	57.4	46.9	41.7	36.5	31.3	26.1	20.9
80°	109.5	104.3	93.9	83.5	78.2	67.8	62.6	52.2	41.7	36.5	31.3
77.5°	146.0	135.6	125.2	114.7	99.1	88.7	78.2	67.8	57.4	46.9	36.5
75°	193.0	172.1	156.5	140.8	125.2	109.5	93.9	83.5	67.8	57.4	41.7
72.5°	239.9	219.1	193.0	172.1	151.3	135.6	114.7	99.1	83.5	67.8	52.2
70°	286.9	260.8	234.7	208.6	182.5	156.5	135.6	114.7	93.9	78.2	62.6
67.5°	333.8	307.7	276.4	245.1	219.1	187.8	156.5	135.6	109.5	88.7	67.8
65°	391.2	354.7	318.2	286.9	250.4	219.1	182.5	151.3	125.2	99.1	78.2
62.5°	448.5	406.8	365.1	323.4	286.9	245.1	208.6	172.1	140.8	114.7	83.5
60°	505.9	459.0	412.0	365.1	318.2	276.4	234.7	193.0	156.5	125.2	93.9
57.5°	563.3	511.1	459.0	406.8	354.7	307.7	260.8	219.1	172.1	135.6	104.3
55°	615.5	563.3	505.9	448.5	391.2	333.8	286.9	239.9	193.0	146.0	109.5
52.5°	662.4	610.2	552.9	490.3	432.9	370.3	312.9	260.8	208.6	156.5	120.0
50°	714.5	657.2	594.6	532.0	464.2	401.6	339.0	281.6	224.3	172.1	130.4
47.5°	761.5	698.9	636.3	568.5	500.7	432.9	365.1	302.5	239.9	187.8	135.6
45°	808.4	745.8	678.0	605.0	537.2	464.2	391.2	318.2	260.8	198.2	146.0
42.5°	850.2	782.4	714.5	646.7	568.5	495.5	417.3	339.0	276.4	213.8	151.3
40°	891.9	824.1	751.1	678.0	599.8	521.6	443.3	365.1	292.1	224.3	161.7
37.5°	933.6	860.6	787.6	709.3	631.1	547.6	464.2	380.7	307.7	234.7	172.1
35°	964.9	891.9	818.9	740.6	657.2	573.7	490.3	401.6	318.2	245.1	177.3
32.5°	996.2	928.4	850.2	766.7	683.3	599.8	511.1	422.5	333.8	260.8	187.8
30°	1027.5	954.5	876.2	792.8	709.3	620.7	532.0	438.1	349.5	266.0	193.0
27.5°	1053.6	980.5	902.3	818.9	730.2	641.5	547.6	453.8	359.9	276.4	203.4
25°	1079.6	1006.6	928.4	839.7	751.1	657.2	563.3	469.4	375.5	286.9	208.6
22.5°	1105.7	1022.3	949.3	860.6	771.9	678.0	578.9	479.8	386.0	292.1	213.8
20°	1126.6	1043.1	964.9	876.2	787.6	693.7	594.6	495.5	396.4	302.5	219.1
17.5°	1147.5	1064.0	980.5	897.1	803.2	704.1	605.0	505.9	401.6	307.7	224.3
15°	1168.3	1079.6	996.2	907.5	813.6	719.8	615.5	516.4	412.0	312.9	229.5
12.5°	1184.0	1090.1	1006.6	923.2	824.1	730.2	625.9	521.6	417.3	318.2	229.5
10°	1194.4	1100.5	1017.1	933.6	834.5	735.4	631.1	532.0	422.5	323.4	234.7
7.5°	1204.8	1110.9	1022.3	938.8	839.7	740.6	641.5	537.2	427.7	323.4	239.9
5°	1215.3	1116.2	1027.5	944.0	844.9	751.1	646.7	542.4	432.9	328.6	239.9
2.5°	1220.5	1121.4	1032.7	949.3	850.2	751.1	646.7	542.4	432.9	328.6	239.9
0°	1220.5	1121.4	1032.7	949.3	850.2	751.1	646.7	542.4	432.9	328.6	239.9



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	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.2	5.2	0.0	0.0
85°	10.4	5.2	5.2	0.0
82.5°	15.6	10.4	5.2	0.0
80°	20.9	15.6	5.2	0.0
77.5°	26.1	15.6	10.4	0.0
75°	31.3	20.9	10.4	0.0
72.5°	36.5	26.1	10.4	0.0
70°	41.7	26.1	15.6	0.0
67.5°	46.9	31.3	15.6	0.0
65°	57.4	36.5	15.6	0.0
62.5°	62.6	36.5	20.9	0.0
60°	67.8	41.7	20.9	0.0
57.5°	73.0	46.9	20.9	0.0
55°	78.2	46.9	26.1	0.0
52.5°	83.5	52.2	26.1	0.0
50°	88.7	57.4	26.1	0.0
47.5°	93.9	62.6	26.1	0.0
45°	99.1	62.6	31.3	0.0
42.5°	109.5	67.8	31.3	0.0
40°	114.7	67.8	31.3	0.0
37.5°	120.0	73.0	31.3	0.0
35°	120.0	73.0	36.5	0.0
32.5°	125.2	78.2	36.5	0.0
30°	130.4	78.2	36.5	0.0
27.5°	135.6	83.5	36.5	0.0
25°	140.8	83.5	36.5	0.0
22.5°	140.8	83.5	36.5	0.0
20°	146.0	88.7	41.7	0.0
17.5°	146.0	88.7	41.7	0.0
15°	151.3	88.7	41.7	0.0
12.5°	151.3	93.9	41.7	0.0
10°	151.3	93.9	41.7	0.0
7.5°	156.5	93.9	41.7	0.0
5°	156.5	93.9	41.7	0.0
2.5°	156.5	93.9	41.7	0.0
0°	156.5	93.9	41.7	0.0

(END OF REPORT)