

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: P623265

Luminaire Tested: **EPH-VN-08-E-935-U-33**

Issue Date: 10/13/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P623265  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/13/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-08-E-935-U-33  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 3 distribution lens  
Light Source: (128) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	47303.1 lumens	Max Intensity:	440162.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	75.5 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

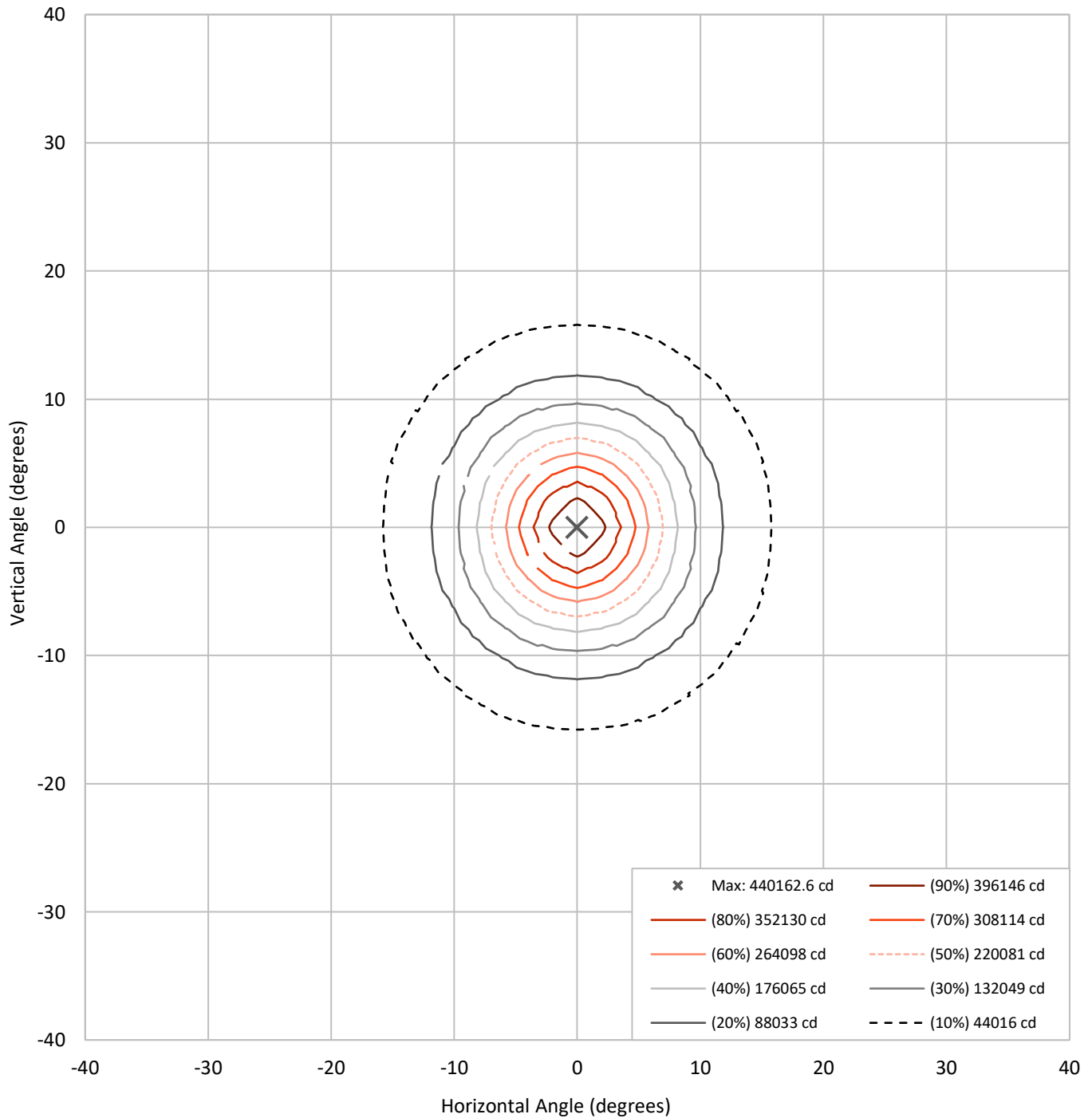
Beam Angle (50%):	13.8°H x 13.8°V	Field Angle (10%):	31.4°H x 31.4°V
Beam Lumens:	10343.8 lumens	Field Lumens:	24084.9 lumens
Beam Efficiency:	21.9%	Field Efficiency:	50.9%

Input Watts (W): 626.8  
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





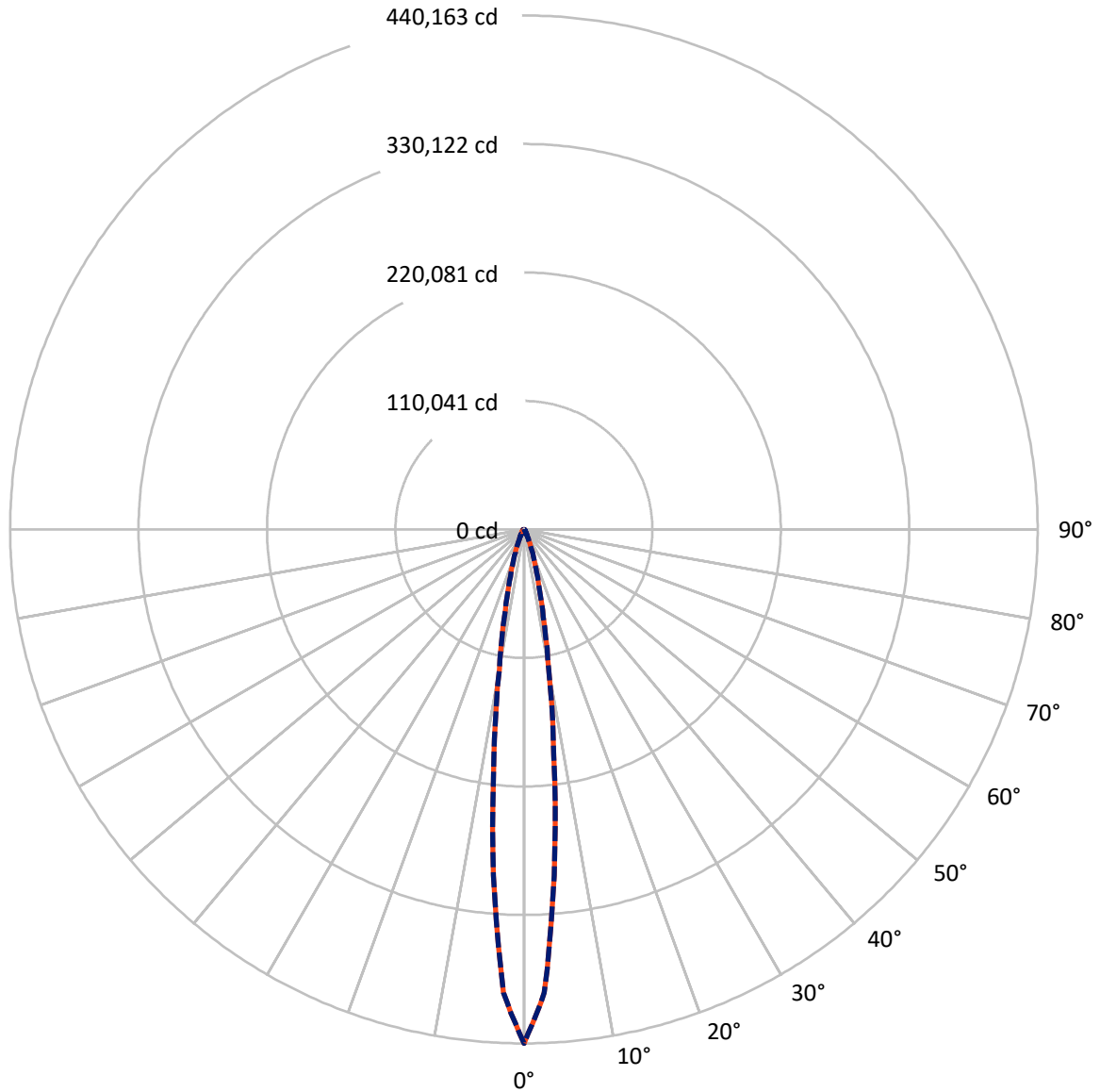
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### Lumen Table

90	0.8	6.1		16.2		26.4		30.7		26.4		16.2		6.1		0.8
80	0.8	6.1		16.2		26.4		30.7		26.4		16.2		6.1		0.8
70	2.8	3.1	6.5	10.9	15.4	19.5	22.5	24.1	24.1	22.5	19.5	15.4	10.9	6.5	3.1	2.8
60		4.9	10.1	16.4	22.6	28.1	32.4	34.7	34.7	32.4	28.1	22.6	16.4	10.1	4.9	
50	5.1	6.6	13.3	21.0	29.1	37.3	45.1	50.0	50.0	45.1	37.3	29.1	21.0	13.3	6.6	5.1
40		8.1	15.9	25.1	36.8	52.7	72.1	88.5	88.5	72.1	52.7	36.8	25.1	15.9	8.1	
30	6.8	9.2	17.9	29.2	47.7	84.3	172.0	294.4	294.4	172.0	84.3	47.7	29.2	17.9	9.2	6.8
20		10.0	19.3	33.2	61.4	162.2	583.2	1448.3	1448.3	583.2	162.2	61.4	33.2	19.3	10.0	
10	7.5	10.4	20.1	35.7	73.3	270.2	1411.2	6196.3	6196.3	1411.2	270.2	73.3	35.7	20.1	10.4	7.5
0		10.4	20.1	35.7	73.3	270.2	1411.2	6196.3	6196.3	1411.2	270.2	73.3	35.7	20.1	10.4	
-10	6.8	10.0	19.3	33.2	61.4	162.2	583.2	1448.3	1448.3	583.2	162.2	61.4	33.2	19.3	10.0	6.8
-20		9.2	17.9	29.2	47.7	84.3	172.0	294.4	294.4	172.0	84.3	47.7	29.2	17.9	9.2	
-30	5.1	8.1	15.9	25.1	36.8	52.7	72.1	88.5	88.5	72.1	52.7	36.8	25.1	15.9	8.1	5.1
-40		6.6	13.3	21.0	29.1	37.3	45.1	50.0	50.0	45.1	37.3	29.1	21.0	13.3	6.6	
-50	2.8	4.9	10.1	16.4	22.6	28.1	32.4	34.7	34.7	32.4	28.1	22.6	16.4	10.1	4.9	2.8
-60		3.1	6.5	10.9	15.4	19.5	22.5	24.1	24.1	22.5	19.5	15.4	10.9	6.5	3.1	
-70	0.8	6.1		16.2		26.4		30.7		26.4		16.2		6.1		0.8
-80		6.1		16.2		26.4		30.7		26.4		16.2		6.1		
-90	0.8	6.1		16.2		26.4		30.7		26.4		16.2		6.1		0.8

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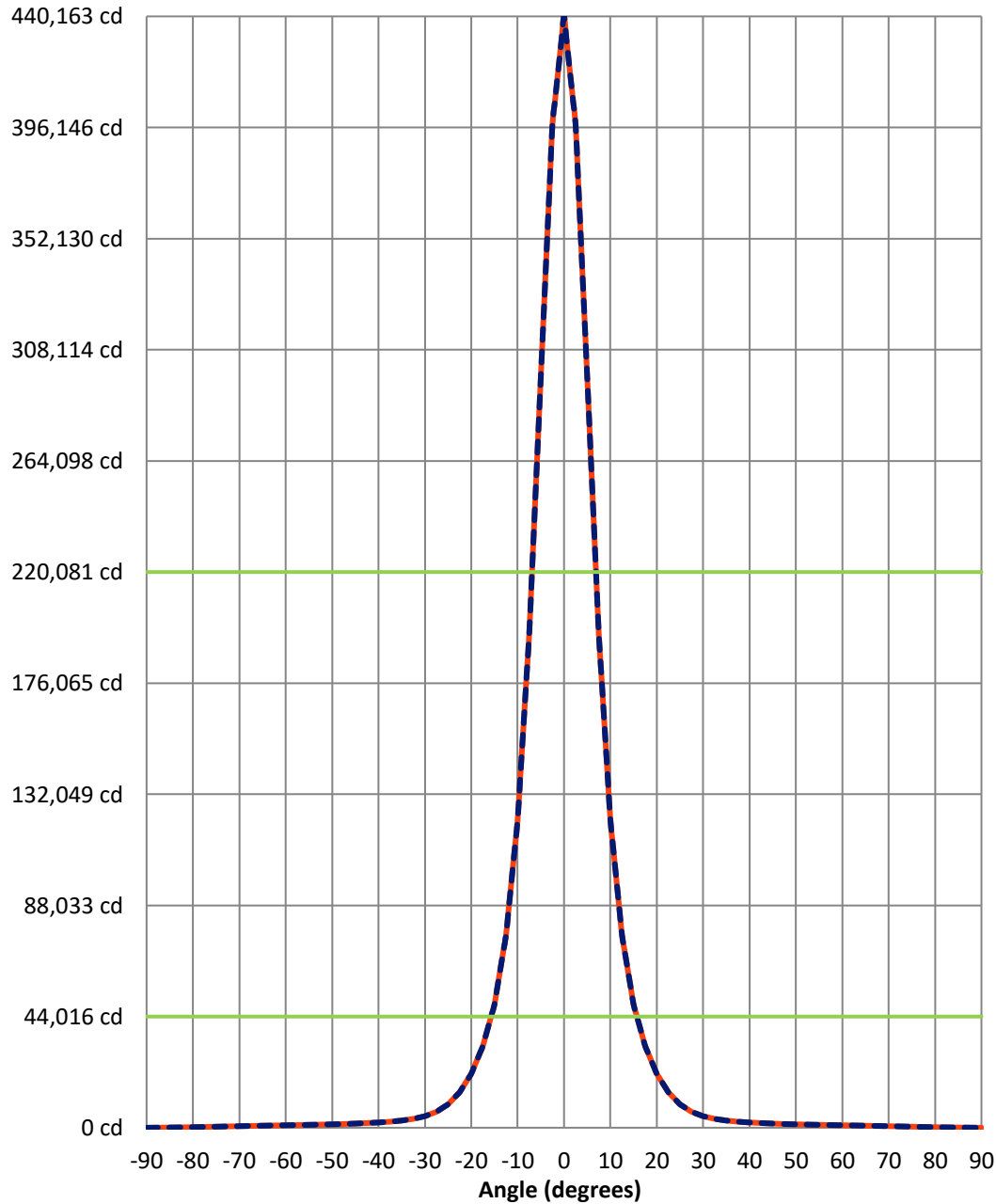
### Luminous Intensity Polar Plot



— 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: 10343.8  
Efficiency: 21.9%

**Field:**  
H Angle: 31.4°  
V Angle: 31.4°  
Lumens: 24084.9  
Efficiency: 50.9%

**Spill:**  
Lumens: 23218.2  
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°	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	34.4	34.4
85°	88.6	88.6	88.6	88.6	88.6	88.6	83.7	83.7	83.7	78.7	78.7
82.5°	147.6	147.6	147.6	147.6	142.7	142.7	142.7	137.8	137.8	132.9	132.9
80°	226.4	226.4	226.4	226.4	221.4	216.5	216.5	211.6	206.7	201.8	196.8
77.5°	310.0	310.0	310.0	305.1	305.1	300.2	295.3	290.3	285.4	275.6	270.7
75°	408.5	408.5	408.5	403.5	398.6	393.7	388.8	378.9	374.0	364.2	354.3
72.5°	511.8	511.8	511.8	506.9	502.0	492.1	487.2	477.3	467.5	452.7	442.9
70°	610.2	610.2	610.2	605.3	595.5	590.5	580.7	570.8	561.0	546.2	531.5
67.5°	708.6	708.6	708.6	698.8	693.9	689.0	679.1	664.3	654.5	639.7	620.1
65°	802.1	802.1	797.2	792.3	787.4	777.5	767.7	757.8	743.1	728.3	708.6
62.5°	895.6	895.6	890.7	885.8	880.9	871.0	856.3	846.4	826.7	812.0	792.3
60°	974.4	974.4	969.5	964.5	959.6	949.8	939.9	925.2	910.4	895.6	876.0
57.5°	1058.0	1058.0	1053.1	1048.2	1038.4	1028.5	1018.7	1003.9	984.2	964.5	949.8
55°	1151.5	1151.5	1146.6	1136.8	1126.9	1117.1	1102.3	1082.6	1063.0	1043.3	1018.7
52.5°	1240.1	1240.1	1235.2	1225.4	1215.5	1205.7	1186.0	1171.2	1146.6	1122.0	1092.5
50°	1348.4	1348.4	1338.5	1328.7	1318.9	1299.2	1279.5	1254.9	1230.3	1200.7	1176.1
47.5°	1471.4	1471.4	1461.6	1451.7	1432.0	1412.4	1382.8	1353.3	1323.8	1289.3	1250.0
45°	1643.6	1643.6	1628.9	1609.2	1584.6	1550.1	1510.8	1471.4	1427.1	1387.7	1343.5
42.5°	1855.3	1855.3	1835.6	1811.0	1776.5	1732.2	1678.1	1624.0	1564.9	1500.9	1441.9
40°	2076.7	2076.7	2052.1	2027.5	1988.1	1934.0	1874.9	1806.0	1732.2	1648.6	1574.8
37.5°	2381.8	2381.8	2347.4	2303.1	2244.0	2170.2	2081.6	2002.9	1919.2	1825.7	1727.3
35°	2834.6	2834.6	2780.4	2706.6	2613.1	2490.1	2357.2	2244.0	2116.1	2002.9	1894.6
32.5°	3503.8	3503.8	3410.3	3302.1	3144.6	2947.7	2755.8	2573.7	2381.8	2219.4	2061.9
30°	4556.9	4556.9	4399.5	4202.6	3936.9	3597.3	3311.9	3016.6	2736.1	2499.9	2283.4
27.5°	6308.8	6235.0	6018.5	5659.3	5167.2	4556.9	4119.0	3621.9	3228.2	2844.4	2563.9
25°	9261.5	9123.7	8715.3	8041.1	7130.7	6121.8	5324.6	4478.2	3877.8	3331.6	2893.6
22.5°	14059.6	13808.6	13060.6	11840.2	10191.6	8577.5	7106.1	5802.0	4729.2	3966.4	3331.6
20°	21362.5	20924.5	19635.2	17548.6	14733.8	12238.8	9615.8	7681.8	5964.4	4729.2	3877.8
17.5°	32336.5	31578.7	29359.3	25781.6	21362.5	17297.7	13301.7	10117.8	7681.8	5802.0	4478.2
15°	48753.3	47424.6	43546.8	37380.7	30299.2	23852.6	18178.5	13301.7	9615.8	7106.1	5324.6
12.5°	76316.4	73629.5	65864.0	53753.1	42464.2	31869.0	23852.6	17297.7	12238.8	8577.5	6121.8
10°	121856.2	116305.2	100562.6	76734.7	58610.3	42464.2	30299.2	21362.5	14733.8	10191.6	7130.7
7.5°	195672.7	183758.7	151205.6	111083.9	76734.7	53753.1	37380.7	25781.6	17548.6	11840.2	8041.1
5°	297485.3	273509.7	213324.7	151205.6	100562.6	65864.0	43546.8	29359.3	19635.2	13060.6	8715.3
2.5°	397304.8	355982.4	273509.7	183758.7	116305.2	73629.5	47424.6	31578.7	20924.5	13808.6	9123.7
0°	440162.6	397304.8	297485.3	195672.7	121856.2	76316.4	48753.3	32336.5	21362.5	14059.6	9261.5



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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°	34.4	34.4	34.4	34.4	29.5	29.5	29.5	29.5	24.6	24.6	24.6
85°	78.7	73.8	73.8	68.9	68.9	64.0	64.0	59.1	59.1	54.1	49.2
82.5°	127.9	123.0	118.1	113.2	113.2	108.3	103.3	93.5	88.6	83.7	78.7
80°	191.9	182.1	177.2	167.3	162.4	152.6	142.7	137.8	127.9	123.0	113.2
77.5°	260.8	251.0	246.1	231.3	221.4	211.6	201.8	187.0	177.2	162.4	147.6
75°	339.6	329.7	315.0	300.2	290.3	275.6	260.8	246.1	226.4	211.6	196.8
72.5°	428.1	413.4	398.6	378.9	359.2	344.5	319.9	300.2	285.4	265.7	246.1
70°	516.7	502.0	482.3	462.6	438.0	418.3	393.7	369.1	344.5	319.9	295.3
67.5°	605.3	585.6	565.9	541.3	516.7	492.1	467.5	438.0	408.5	378.9	349.4
65°	689.0	669.3	644.7	620.1	595.5	565.9	536.4	506.9	472.4	438.0	408.5
62.5°	772.6	748.0	723.4	698.8	669.3	639.7	610.2	570.8	536.4	502.0	462.6
60°	851.3	826.7	802.1	772.6	743.1	708.6	674.2	639.7	600.4	561.0	521.6
57.5°	925.2	900.6	876.0	841.5	812.0	777.5	738.2	703.7	659.4	620.1	575.8
55°	994.1	969.5	939.9	910.4	880.9	841.5	802.1	762.8	718.5	674.2	625.0
52.5°	1063.0	1033.4	1003.9	974.4	939.9	905.5	866.1	821.8	777.5	728.3	679.1
50°	1141.7	1107.2	1067.9	1033.4	994.1	959.6	920.2	876.0	831.7	777.5	728.3
47.5°	1215.5	1181.1	1141.7	1097.4	1058.0	1013.7	969.5	930.1	880.9	831.7	777.5
45°	1299.2	1250.0	1210.6	1166.3	1117.1	1067.9	1023.6	974.4	930.1	876.0	821.8
42.5°	1387.7	1333.6	1279.5	1225.4	1181.1	1126.9	1072.8	1023.6	969.5	920.2	866.1
40°	1491.1	1427.1	1358.2	1299.2	1240.1	1186.0	1126.9	1067.9	1013.7	959.6	905.5
37.5°	1624.0	1535.4	1446.8	1373.0	1304.1	1240.1	1181.1	1117.1	1058.0	994.1	939.9
35°	1781.4	1658.4	1555.1	1451.7	1373.0	1299.2	1225.4	1166.3	1097.4	1033.4	974.4
32.5°	1938.9	1806.0	1673.2	1555.1	1446.8	1358.2	1279.5	1210.6	1141.7	1067.9	1003.9
30°	2101.3	1953.7	1806.0	1658.4	1535.4	1427.1	1333.6	1250.0	1181.1	1107.2	1033.4
27.5°	2308.0	2101.3	1938.9	1781.4	1624.0	1491.1	1387.7	1299.2	1215.5	1141.7	1063.0
25°	2563.9	2283.4	2061.9	1894.6	1727.3	1574.8	1441.9	1343.5	1250.0	1176.1	1092.5
22.5°	2844.4	2499.9	2219.4	2002.9	1825.7	1648.6	1500.9	1387.7	1289.3	1200.7	1122.0
20°	3228.2	2736.1	2381.8	2116.1	1919.2	1732.2	1564.9	1427.1	1323.8	1230.3	1146.6
17.5°	3621.9	3016.6	2573.7	2244.0	2002.9	1806.0	1624.0	1471.4	1353.3	1254.9	1171.2
15°	4119.0	3311.9	2755.8	2357.2	2081.6	1874.9	1678.1	1510.8	1382.8	1279.5	1186.0
12.5°	4556.9	3597.3	2947.7	2490.1	2170.2	1934.0	1732.2	1550.1	1412.4	1299.2	1205.7
10°	5167.2	3936.9	3144.6	2613.1	2244.0	1988.1	1776.5	1584.6	1432.0	1318.9	1215.5
7.5°	5659.3	4202.6	3302.1	2706.6	2303.1	2027.5	1811.0	1609.2	1451.7	1328.7	1225.4
5°	6018.5	4399.5	3410.3	2780.4	2347.4	2052.1	1835.6	1628.9	1461.6	1338.5	1235.2
2.5°	6235.0	4556.9	3503.8	2834.6	2381.8	2076.7	1855.3	1643.6	1471.4	1348.4	1240.1
0°	6308.8	4556.9	3503.8	2834.6	2381.8	2076.7	1855.3	1643.6	1471.4	1348.4	1240.1





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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°	24.6	19.7	19.7	19.7	14.8	14.8	14.8	9.8	9.8	9.8	4.9
85°	44.3	44.3	39.4	34.4	34.4	29.5	24.6	24.6	19.7	14.8	14.8
82.5°	73.8	68.9	64.0	59.1	54.1	44.3	39.4	34.4	29.5	24.6	19.7
80°	103.3	98.4	88.6	78.7	73.8	64.0	59.1	49.2	39.4	34.4	29.5
77.5°	137.8	127.9	118.1	108.3	93.5	83.7	73.8	64.0	54.1	44.3	34.4
75°	182.1	162.4	147.6	132.9	118.1	103.3	88.6	78.7	64.0	54.1	39.4
72.5°	226.4	206.7	182.1	162.4	142.7	127.9	108.3	93.5	78.7	64.0	49.2
70°	270.7	246.1	221.4	196.8	172.2	147.6	127.9	108.3	88.6	73.8	59.1
67.5°	315.0	290.3	260.8	231.3	206.7	177.2	147.6	127.9	103.3	83.7	64.0
65°	369.1	334.6	300.2	270.7	236.2	206.7	172.2	142.7	118.1	93.5	73.8
62.5°	423.2	383.8	344.5	305.1	270.7	231.3	196.8	162.4	132.9	108.3	78.7
60°	477.3	433.1	388.8	344.5	300.2	260.8	221.4	182.1	147.6	118.1	88.6
57.5°	531.5	482.3	433.1	383.8	334.6	290.3	246.1	206.7	162.4	127.9	98.4
55°	580.7	531.5	477.3	423.2	369.1	315.0	270.7	226.4	182.1	137.8	103.3
52.5°	625.0	575.8	521.6	462.6	408.5	349.4	295.3	246.1	196.8	147.6	113.2
50°	674.2	620.1	561.0	502.0	438.0	378.9	319.9	265.7	211.6	162.4	123.0
47.5°	718.5	659.4	600.4	536.4	472.4	408.5	344.5	285.4	226.4	177.2	127.9
45°	762.8	703.7	639.7	570.8	506.9	438.0	369.1	300.2	246.1	187.0	137.8
42.5°	802.1	738.2	674.2	610.2	536.4	467.5	393.7	319.9	260.8	201.8	142.7
40°	841.5	777.5	708.6	639.7	565.9	492.1	418.3	344.5	275.6	211.6	152.6
37.5°	880.9	812.0	743.1	669.3	595.5	516.7	438.0	359.2	290.3	221.4	162.4
35°	910.4	841.5	772.6	698.8	620.1	541.3	462.6	378.9	300.2	231.3	167.3
32.5°	939.9	876.0	802.1	723.4	644.7	565.9	482.3	398.6	315.0	246.1	177.2
30°	969.5	900.6	826.7	748.0	669.3	585.6	502.0	413.4	329.7	251.0	182.1
27.5°	994.1	925.2	851.3	772.6	689.0	605.3	516.7	428.1	339.6	260.8	191.9
25°	1018.7	949.8	876.0	792.3	708.6	620.1	531.5	442.9	354.3	270.7	196.8
22.5°	1043.3	964.5	895.6	812.0	728.3	639.7	546.2	452.7	364.2	275.6	201.8
20°	1063.0	984.2	910.4	826.7	743.1	654.5	561.0	467.5	374.0	285.4	206.7
17.5°	1082.6	1003.9	925.2	846.4	757.8	664.3	570.8	477.3	378.9	290.3	211.6
15°	1102.3	1018.7	939.9	856.3	767.7	679.1	580.7	487.2	388.8	295.3	216.5
12.5°	1117.1	1028.5	949.8	871.0	777.5	689.0	590.5	492.1	393.7	300.2	216.5
10°	1126.9	1038.4	959.6	880.9	787.4	693.9	595.5	502.0	398.6	305.1	221.4
7.5°	1136.8	1048.2	964.5	885.8	792.3	698.8	605.3	506.9	403.5	305.1	226.4
5°	1146.6	1053.1	969.5	890.7	797.2	708.6	610.2	511.8	408.5	310.0	226.4
2.5°	1151.5	1058.0	974.4	895.6	802.1	708.6	610.2	511.8	408.5	310.0	226.4
0°	1151.5	1058.0	974.4	895.6	802.1	708.6	610.2	511.8	408.5	310.0	226.4



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.9	4.9	0.0	0.0
85°	9.8	4.9	4.9	0.0
82.5°	14.8	9.8	4.9	0.0
80°	19.7	14.8	4.9	0.0
77.5°	24.6	14.8	9.8	0.0
75°	29.5	19.7	9.8	0.0
72.5°	34.4	24.6	9.8	0.0
70°	39.4	24.6	14.8	0.0
67.5°	44.3	29.5	14.8	0.0
65°	54.1	34.4	14.8	0.0
62.5°	59.1	34.4	19.7	0.0
60°	64.0	39.4	19.7	0.0
57.5°	68.9	44.3	19.7	0.0
55°	73.8	44.3	24.6	0.0
52.5°	78.7	49.2	24.6	0.0
50°	83.7	54.1	24.6	0.0
47.5°	88.6	59.1	24.6	0.0
45°	93.5	59.1	29.5	0.0
42.5°	103.3	64.0	29.5	0.0
40°	108.3	64.0	29.5	0.0
37.5°	113.2	68.9	29.5	0.0
35°	113.2	68.9	34.4	0.0
32.5°	118.1	73.8	34.4	0.0
30°	123.0	73.8	34.4	0.0
27.5°	127.9	78.7	34.4	0.0
25°	132.9	78.7	34.4	0.0
22.5°	132.9	78.7	34.4	0.0
20°	137.8	83.7	39.4	0.0
17.5°	137.8	83.7	39.4	0.0
15°	142.7	83.7	39.4	0.0
12.5°	142.7	88.6	39.4	0.0
10°	142.7	88.6	39.4	0.0
7.5°	147.6	88.6	39.4	0.0
5°	147.6	88.6	39.4	0.0
2.5°	147.6	88.6	39.4	0.0
0°	147.6	88.6	39.4	0.0

(END OF REPORT)