

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: P623274

Luminaire Tested: **EPH-VN-06-E-950-U-33**

Issue Date: 10/13/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P623274  
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-950-U-33  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 3 distribution lens  
Light Source: (96) 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	39784 lumens	Max Intensity:	370196.8 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	85.7 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

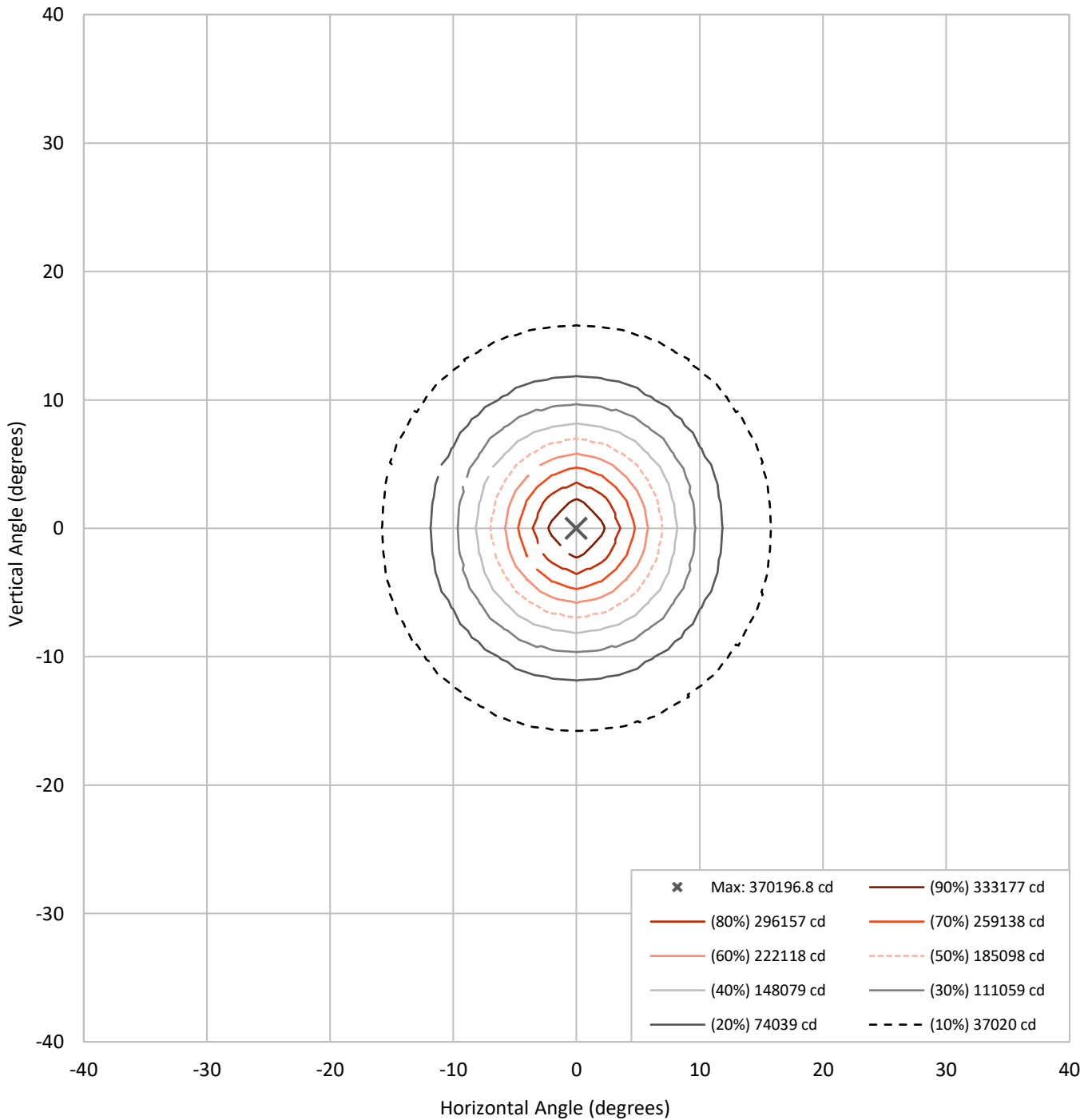
Beam Angle (50%):	13.8°H x 13.8°V	Field Angle (10%):	31.4°H x 31.4°V
Beam Lumens:	8699.6 lumens	Field Lumens:	20256.5 lumens
Beam Efficiency:	21.9%	Field Efficiency:	50.9%

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





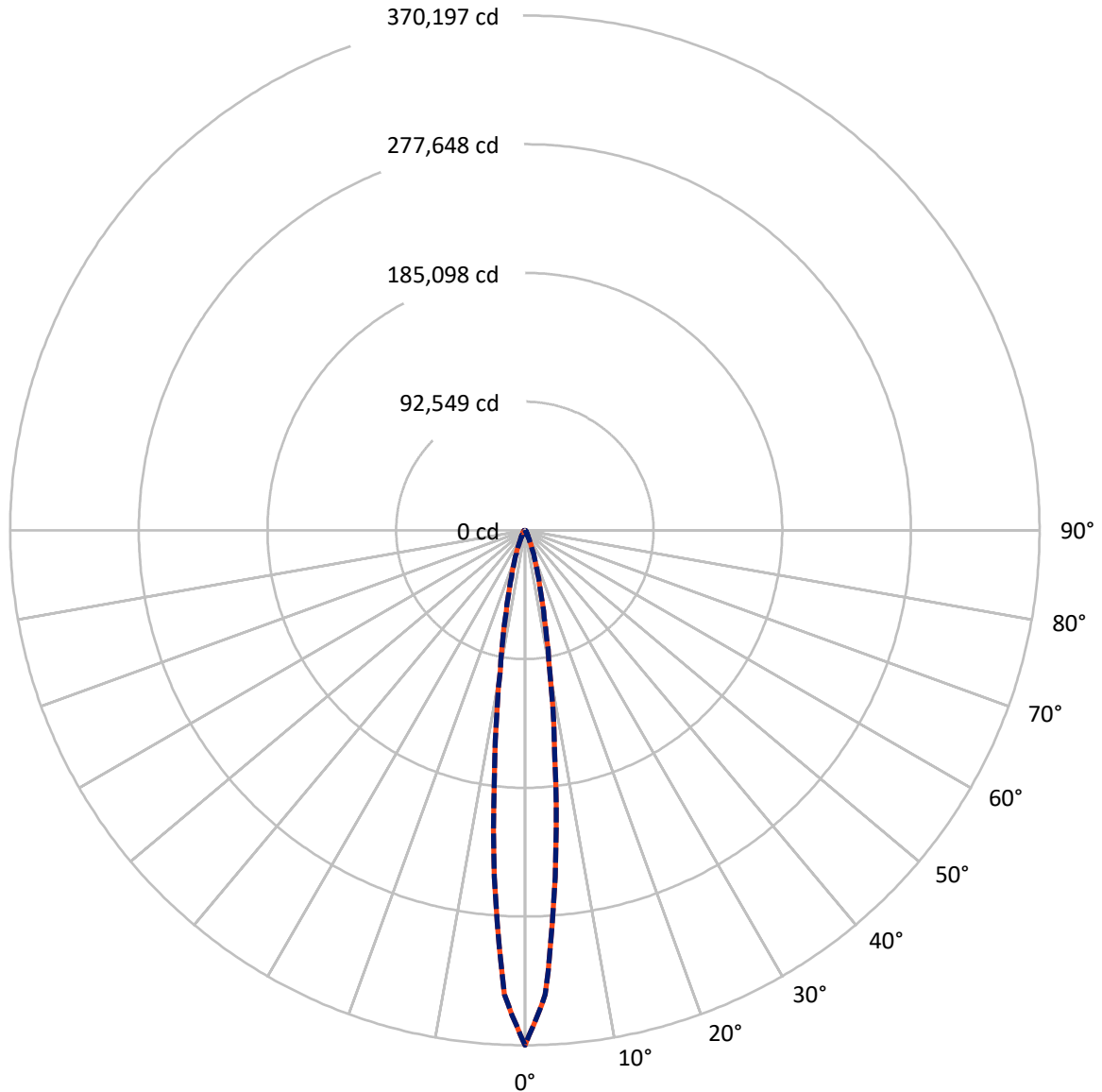
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### Lumen Table

90	0.7	5.1		13.7		22.2		25.8		22.2		13.7		5.1		0.7
80	0.7	5.1		13.7		22.2		25.8		22.2		13.7		5.1		0.7
70	2.3	2.6	5.5	9.2	13.0	16.4	18.9	20.3	20.3	18.9	16.4	13.0	9.2	5.5	2.6	2.3
60		4.1	8.5	13.8	19.0	23.7	27.2	29.2	29.2	27.2	23.7	19.0	13.8	8.5	4.1	
50	4.3	5.5	11.2	17.7	24.4	31.4	38.0	42.1	42.1	38.0	31.4	24.4	17.7	11.2	5.5	4.3
40		6.8	13.4	21.1	31.0	44.3	60.6	74.5	74.5	60.6	44.3	31.0	21.1	13.4	6.8	
30	5.7	7.7	15.0	24.6	40.2	70.9	144.7	247.6	247.6	144.7	70.9	40.2	24.6	15.0	7.7	5.7
20		8.4	16.3	27.9	51.6	136.4	490.5	1218.1	1218.1	490.5	136.4	51.6	27.9	16.3	8.4	
10	6.3	8.7	16.9	30.1	61.7	227.2	1186.9	5211.4	5211.4	1186.9	227.2	61.7	30.1	16.9	8.7	6.3
0		8.7	16.9	30.1	61.7	227.2	1186.9	5211.4	5211.4	1186.9	227.2	61.7	30.1	16.9	8.7	
-10	5.7	8.4	16.3	27.9	51.6	136.4	490.5	1218.1	1218.1	490.5	136.4	51.6	27.9	16.3	8.4	5.7
-20		7.7	15.0	24.6	40.2	70.9	144.7	247.6	247.6	144.7	70.9	40.2	24.6	15.0	7.7	
-30	4.3	6.8	13.4	21.1	31.0	44.3	60.6	74.5	74.5	60.6	44.3	31.0	21.1	13.4	6.8	4.3
-40		5.5	11.2	17.7	24.4	31.4	38.0	42.1	42.1	38.0	31.4	24.4	17.7	11.2	5.5	
-50	2.3	4.1	8.5	13.8	19.0	23.7	27.2	29.2	29.2	27.2	23.7	19.0	13.8	8.5	4.1	2.3
-60		2.6	5.5	9.2	13.0	16.4	18.9	20.3	20.3	18.9	16.4	13.0	9.2	5.5	2.6	
-70	0.7	5.1		13.7		22.2		25.8		22.2		13.7		5.1		0.7
-80		5.1		13.7		22.2		25.8		22.2		13.7		5.1		
-90	0.7	5.1		13.7		22.2		25.8		22.2		13.7		5.1		0.7

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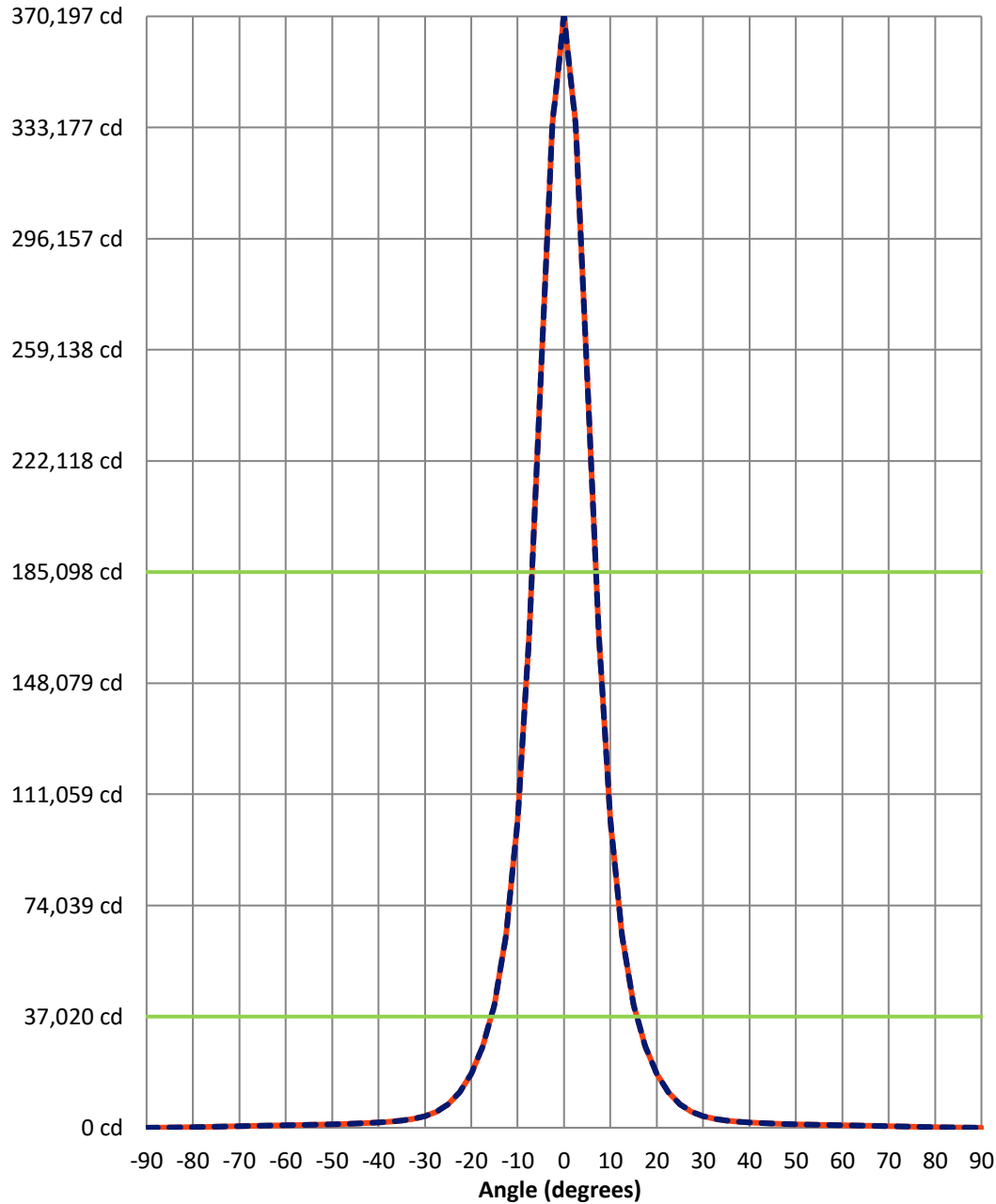
### Luminous Intensity Polar Plot



— 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: 8699.6  
 Efficiency: 21.9%

**Field:**  
 H Angle: 31.4°  
 V Angle: 31.4°  
 Lumens: 20256.5  
 Efficiency: 50.9%

**Spill:**  
 Lumens: 19527.6  
 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°	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1	29.0	29.0
85°	74.5	74.5	74.5	74.5	74.5	74.5	70.4	70.4	70.4	66.2	66.2
82.5°	124.2	124.2	124.2	124.2	120.0	120.0	120.0	115.9	115.9	111.7	111.7
80°	190.4	190.4	190.4	190.4	186.2	182.1	182.1	178.0	173.8	169.7	165.6
77.5°	260.7	260.7	260.7	256.6	256.6	252.5	248.3	244.2	240.1	231.8	227.6
75°	343.5	343.5	343.5	339.4	335.2	331.1	327.0	318.7	314.6	306.3	298.0
72.5°	430.4	430.4	430.4	426.3	422.2	413.9	409.7	401.5	393.2	380.8	372.5
70°	513.2	513.2	513.2	509.1	500.8	496.7	488.4	480.1	471.8	459.4	447.0
67.5°	596.0	596.0	596.0	587.7	583.6	579.4	571.2	558.7	550.5	538.1	521.5
65°	674.6	674.6	670.5	666.4	662.2	653.9	645.7	637.4	625.0	612.6	596.0
62.5°	753.3	753.3	749.1	745.0	740.9	732.6	720.2	711.9	695.3	682.9	666.4
60°	819.5	819.5	815.4	811.2	807.1	798.8	790.5	778.1	765.7	753.3	736.7
57.5°	889.9	889.9	885.7	881.6	873.3	865.0	856.7	844.3	827.8	811.2	798.8
55°	968.5	968.5	964.4	956.1	947.8	939.5	927.1	910.6	894.0	877.4	856.7
52.5°	1043.0	1043.0	1038.9	1030.6	1022.3	1014.0	997.5	985.1	964.4	943.7	918.8
50°	1134.0	1134.0	1125.8	1117.5	1109.2	1092.7	1076.1	1055.4	1034.7	1009.9	989.2
47.5°	1237.5	1237.5	1229.2	1221.0	1204.4	1187.9	1163.0	1138.2	1113.4	1084.4	1051.3
45°	1382.4	1382.4	1370.0	1353.4	1332.7	1303.7	1270.6	1237.5	1200.3	1167.2	1129.9
42.5°	1560.4	1560.4	1543.8	1523.1	1494.1	1456.9	1411.4	1365.8	1316.2	1262.4	1212.7
40°	1746.6	1746.6	1725.9	1705.2	1672.1	1626.6	1576.9	1519.0	1456.9	1386.5	1324.4
37.5°	2003.2	2003.2	1974.2	1937.0	1887.3	1825.2	1750.7	1684.5	1614.2	1535.5	1452.7
35°	2384.0	2384.0	2338.5	2276.4	2197.7	2094.3	1982.5	1887.3	1779.7	1684.5	1593.5
32.5°	2946.9	2946.9	2868.2	2777.2	2644.7	2479.2	2317.8	2164.6	2003.2	1866.6	1734.2
30°	3832.6	3832.6	3700.1	3534.6	3311.1	3025.5	2785.5	2537.1	2301.2	2102.5	1920.4
27.5°	5306.0	5243.9	5061.8	4759.7	4345.8	3832.6	3464.2	3046.2	2715.1	2392.3	2156.3
25°	7789.3	7673.5	7329.9	6762.9	5997.2	5148.8	4478.3	3766.4	3261.4	2802.0	2433.7
22.5°	11824.7	11613.7	10984.6	9958.1	8571.6	7214.0	5976.5	4879.7	3977.5	3335.9	2802.0
20°	17966.8	17598.5	16514.1	14759.2	12391.8	10293.4	8087.3	6460.8	5016.3	3977.5	3261.4
17.5°	27196.5	26559.1	24692.5	21683.5	17966.8	14548.1	11187.4	8509.5	6460.8	4879.7	3766.4
15°	41003.8	39886.3	36624.8	31438.8	25483.0	20061.1	15289.0	11187.4	8087.3	5976.5	4478.3
12.5°	64185.5	61925.7	55394.6	45208.8	35714.3	26803.3	20061.1	14548.1	10293.4	7214.0	5148.8
10°	102486.6	97818.0	84577.7	64537.4	49293.9	35714.3	25483.0	17966.8	12391.8	8571.6	5997.2
7.5°	164569.6	154549.4	127170.8	93426.6	64537.4	45208.8	31438.8	21683.5	14759.2	9958.1	6762.9
5°	250198.6	230034.1	179415.7	127170.8	84577.7	55394.6	36624.8	24692.5	16514.1	10984.6	7329.9
2.5°	334151.4	299397.4	230034.1	154549.4	97818.0	61925.7	39886.3	26559.1	17598.5	11613.7	7673.5
0°	370196.8	334151.4	250198.6	164569.6	102486.6	64185.5	41003.8	27196.5	17966.8	11824.7	7789.3



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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°	29.0	29.0	29.0	29.0	24.8	24.8	24.8	24.8	20.7	20.7	20.7
85°	66.2	62.1	62.1	57.9	57.9	53.8	53.8	49.7	49.7	45.5	41.4
82.5°	107.6	103.5	99.3	95.2	95.2	91.1	86.9	78.6	74.5	70.4	66.2
80°	161.4	153.1	149.0	140.7	136.6	128.3	120.0	115.9	107.6	103.5	95.2
77.5°	219.4	211.1	206.9	194.5	186.2	178.0	169.7	157.3	149.0	136.6	124.2
75°	285.6	277.3	264.9	252.5	244.2	231.8	219.4	206.9	190.4	178.0	165.6
72.5°	360.1	347.7	335.2	318.7	302.1	289.7	269.0	252.5	240.1	223.5	206.9
70°	434.6	422.2	405.6	389.1	368.4	351.8	331.1	310.4	289.7	269.0	248.3
67.5°	509.1	492.5	476.0	455.3	434.6	413.9	393.2	368.4	343.5	318.7	293.9
65°	579.4	562.9	542.2	521.5	500.8	476.0	451.1	426.3	397.3	368.4	343.5
62.5°	649.8	629.1	608.4	587.7	562.9	538.1	513.2	480.1	451.1	422.2	389.1
60°	716.0	695.3	674.6	649.8	625.0	596.0	567.0	538.1	504.9	471.8	438.7
57.5°	778.1	757.4	736.7	707.7	682.9	653.9	620.8	591.9	554.6	521.5	484.2
55°	836.1	815.4	790.5	765.7	740.9	707.7	674.6	641.5	604.3	567.0	525.6
52.5°	894.0	869.2	844.3	819.5	790.5	761.6	728.4	691.2	653.9	612.6	571.2
50°	960.2	931.2	898.1	869.2	836.1	807.1	774.0	736.7	699.5	653.9	612.6
47.5°	1022.3	993.3	960.2	923.0	889.9	852.6	815.4	782.2	740.9	699.5	653.9
45°	1092.7	1051.3	1018.2	980.9	939.5	898.1	860.9	819.5	782.2	736.7	691.2
42.5°	1167.2	1121.6	1076.1	1030.6	993.3	947.8	902.3	860.9	815.4	774.0	728.4
40°	1254.1	1200.3	1142.3	1092.7	1043.0	997.5	947.8	898.1	852.6	807.1	761.6
37.5°	1365.8	1291.3	1216.8	1154.7	1096.8	1043.0	993.3	939.5	889.9	836.1	790.5
35°	1498.3	1394.8	1307.9	1221.0	1154.7	1092.7	1030.6	980.9	923.0	869.2	819.5
32.5°	1630.7	1519.0	1407.2	1307.9	1216.8	1142.3	1076.1	1018.2	960.2	898.1	844.3
30°	1767.3	1643.1	1519.0	1394.8	1291.3	1200.3	1121.6	1051.3	993.3	931.2	869.2
27.5°	1941.1	1767.3	1630.7	1498.3	1365.8	1254.1	1167.2	1092.7	1022.3	960.2	894.0
25°	2156.3	1920.4	1734.2	1593.5	1452.7	1324.4	1212.7	1129.9	1051.3	989.2	918.8
22.5°	2392.3	2102.5	1866.6	1684.5	1535.5	1386.5	1262.4	1167.2	1084.4	1009.9	943.7
20°	2715.1	2301.2	2003.2	1779.7	1614.2	1456.9	1316.2	1200.3	1113.4	1034.7	964.4
17.5°	3046.2	2537.1	2164.6	1887.3	1684.5	1519.0	1365.8	1237.5	1138.2	1055.4	985.1
15°	3464.2	2785.5	2317.8	1982.5	1750.7	1576.9	1411.4	1270.6	1163.0	1076.1	997.5
12.5°	3832.6	3025.5	2479.2	2094.3	1825.2	1626.6	1456.9	1303.7	1187.9	1092.7	1014.0
10°	4345.8	3311.1	2644.7	2197.7	1887.3	1672.1	1494.1	1332.7	1204.4	1109.2	1022.3
7.5°	4759.7	3534.6	2777.2	2276.4	1937.0	1705.2	1523.1	1353.4	1221.0	1117.5	1030.6
5°	5061.8	3700.1	2868.2	2338.5	1974.2	1725.9	1543.8	1370.0	1229.2	1125.8	1038.9
2.5°	5243.9	3832.6	2946.9	2384.0	2003.2	1746.6	1560.4	1382.4	1237.5	1134.0	1043.0
0°	5306.0	3832.6	2946.9	2384.0	2003.2	1746.6	1560.4	1382.4	1237.5	1134.0	1043.0





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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°	20.7	16.6	16.6	16.6	12.4	12.4	12.4	8.3	8.3	8.3	4.1
85°	37.2	37.2	33.1	29.0	29.0	24.8	20.7	20.7	16.6	12.4	12.4
82.5°	62.1	57.9	53.8	49.7	45.5	37.2	33.1	29.0	24.8	20.7	16.6
80°	86.9	82.8	74.5	66.2	62.1	53.8	49.7	41.4	33.1	29.0	24.8
77.5°	115.9	107.6	99.3	91.1	78.6	70.4	62.1	53.8	45.5	37.2	29.0
75°	153.1	136.6	124.2	111.7	99.3	86.9	74.5	66.2	53.8	45.5	33.1
72.5°	190.4	173.8	153.1	136.6	120.0	107.6	91.1	78.6	66.2	53.8	41.4
70°	227.6	206.9	186.2	165.6	144.9	124.2	107.6	91.1	74.5	62.1	49.7
67.5°	264.9	244.2	219.4	194.5	173.8	149.0	124.2	107.6	86.9	70.4	53.8
65°	310.4	281.4	252.5	227.6	198.7	173.8	144.9	120.0	99.3	78.6	62.1
62.5°	355.9	322.8	289.7	256.6	227.6	194.5	165.6	136.6	111.7	91.1	66.2
60°	401.5	364.2	327.0	289.7	252.5	219.4	186.2	153.1	124.2	99.3	74.5
57.5°	447.0	405.6	364.2	322.8	281.4	244.2	206.9	173.8	136.6	107.6	82.8
55°	488.4	447.0	401.5	355.9	310.4	264.9	227.6	190.4	153.1	115.9	86.9
52.5°	525.6	484.2	438.7	389.1	343.5	293.9	248.3	206.9	165.6	124.2	95.2
50°	567.0	521.5	471.8	422.2	368.4	318.7	269.0	223.5	178.0	136.6	103.5
47.5°	604.3	554.6	504.9	451.1	397.3	343.5	289.7	240.1	190.4	149.0	107.6
45°	641.5	591.9	538.1	480.1	426.3	368.4	310.4	252.5	206.9	157.3	115.9
42.5°	674.6	620.8	567.0	513.2	451.1	393.2	331.1	269.0	219.4	169.7	120.0
40°	707.7	653.9	596.0	538.1	476.0	413.9	351.8	289.7	231.8	178.0	128.3
37.5°	740.9	682.9	625.0	562.9	500.8	434.6	368.4	302.1	244.2	186.2	136.6
35°	765.7	707.7	649.8	587.7	521.5	455.3	389.1	318.7	252.5	194.5	140.7
32.5°	790.5	736.7	674.6	608.4	542.2	476.0	405.6	335.2	264.9	206.9	149.0
30°	815.4	757.4	695.3	629.1	562.9	492.5	422.2	347.7	277.3	211.1	153.1
27.5°	836.1	778.1	716.0	649.8	579.4	509.1	434.6	360.1	285.6	219.4	161.4
25°	856.7	798.8	736.7	666.4	596.0	521.5	447.0	372.5	298.0	227.6	165.6
22.5°	877.4	811.2	753.3	682.9	612.6	538.1	459.4	380.8	306.3	231.8	169.7
20°	894.0	827.8	765.7	695.3	625.0	550.5	471.8	393.2	314.6	240.1	173.8
17.5°	910.6	844.3	778.1	711.9	637.4	558.7	480.1	401.5	318.7	244.2	178.0
15°	927.1	856.7	790.5	720.2	645.7	571.2	488.4	409.7	327.0	248.3	182.1
12.5°	939.5	865.0	798.8	732.6	653.9	579.4	496.7	413.9	331.1	252.5	182.1
10°	947.8	873.3	807.1	740.9	662.2	583.6	500.8	422.2	335.2	256.6	186.2
7.5°	956.1	881.6	811.2	745.0	666.4	587.7	509.1	426.3	339.4	256.6	190.4
5°	964.4	885.7	815.4	749.1	670.5	596.0	513.2	430.4	343.5	260.7	190.4
2.5°	968.5	889.9	819.5	753.3	674.6	596.0	513.2	430.4	343.5	260.7	190.4
0°	968.5	889.9	819.5	753.3	674.6	596.0	513.2	430.4	343.5	260.7	190.4



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.1	4.1	0.0	0.0
85°	8.3	4.1	4.1	0.0
82.5°	12.4	8.3	4.1	0.0
80°	16.6	12.4	4.1	0.0
77.5°	20.7	12.4	8.3	0.0
75°	24.8	16.6	8.3	0.0
72.5°	29.0	20.7	8.3	0.0
70°	33.1	20.7	12.4	0.0
67.5°	37.2	24.8	12.4	0.0
65°	45.5	29.0	12.4	0.0
62.5°	49.7	29.0	16.6	0.0
60°	53.8	33.1	16.6	0.0
57.5°	57.9	37.2	16.6	0.0
55°	62.1	37.2	20.7	0.0
52.5°	66.2	41.4	20.7	0.0
50°	70.4	45.5	20.7	0.0
47.5°	74.5	49.7	20.7	0.0
45°	78.6	49.7	24.8	0.0
42.5°	86.9	53.8	24.8	0.0
40°	91.1	53.8	24.8	0.0
37.5°	95.2	57.9	24.8	0.0
35°	95.2	57.9	29.0	0.0
32.5°	99.3	62.1	29.0	0.0
30°	103.5	62.1	29.0	0.0
27.5°	107.6	66.2	29.0	0.0
25°	111.7	66.2	29.0	0.0
22.5°	111.7	66.2	29.0	0.0
20°	115.9	70.4	33.1	0.0
17.5°	115.9	70.4	33.1	0.0
15°	120.0	70.4	33.1	0.0
12.5°	120.0	74.5	33.1	0.0
10°	120.0	74.5	33.1	0.0
7.5°	124.2	74.5	33.1	0.0
5°	124.2	74.5	33.1	0.0
2.5°	124.2	74.5	33.1	0.0
0°	124.2	74.5	33.1	0.0

(END OF REPORT)