

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: P623276

Luminaire Tested: **EPH-VN-08-D-950-U-33**

Issue Date: 10/13/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P623276  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/13/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-08-D-950-U-33  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 3 distribution lens  
Light Source: (128) 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	41915.4 lumens	Max Intensity:	390029.1 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	85.8 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

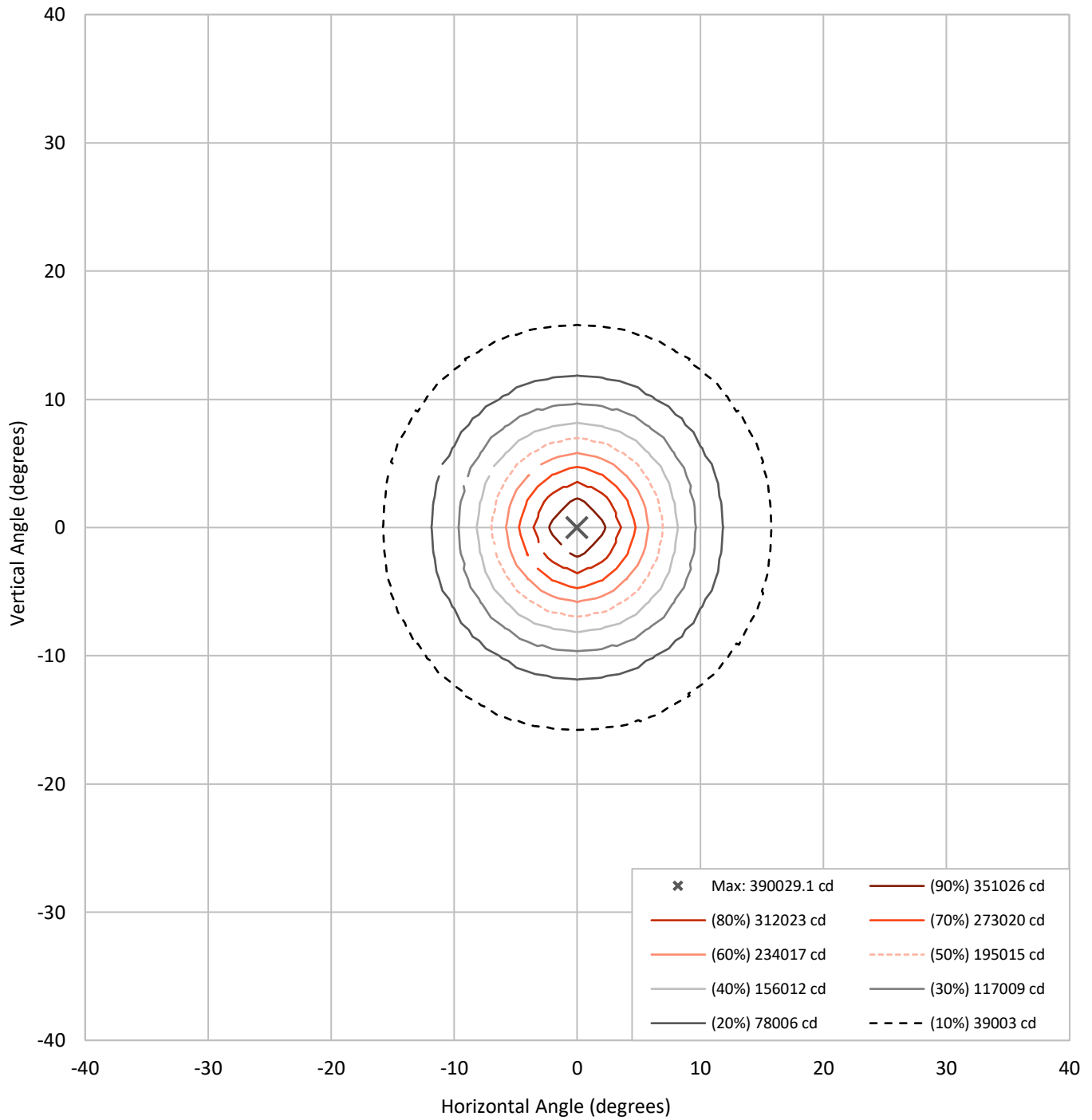
Beam Angle (50%):	13.8°H x 13.8°V	Field Angle (10%):	31.4°H x 31.4°V
Beam Lumens:	9165.7 lumens	Field Lumens:	21341.7 lumens
Beam Efficiency:	21.9%	Field Efficiency:	50.9%

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





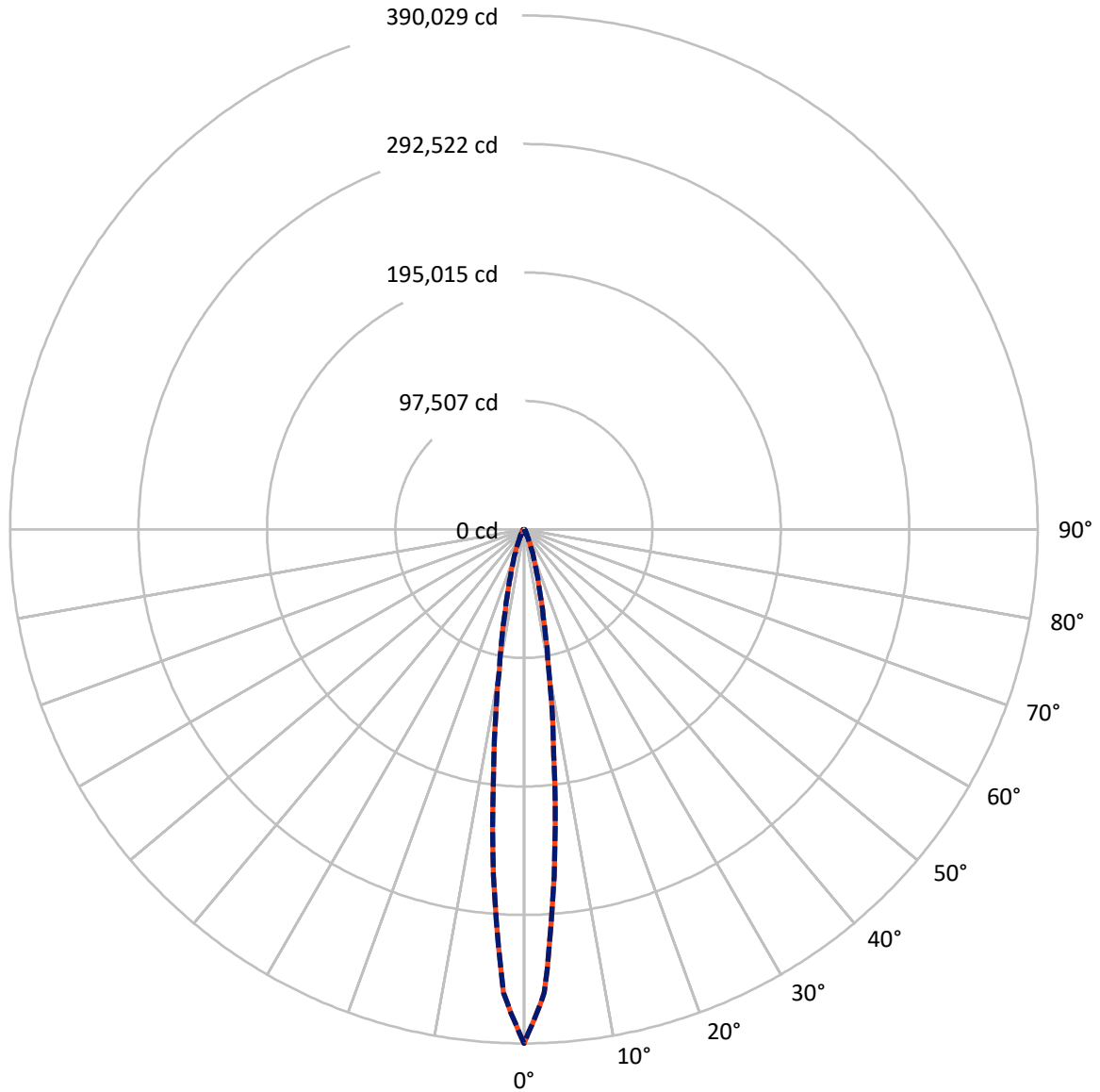
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### Lumen Table

90	0.7	5.4	14.4	23.4	27.2	23.4	14.4	5.4	0.7										
80																			
70																			
60	2.5	2.7	5.8	9.6	13.7	17.3	19.9	21.3	21.3	19.9	17.3	13.7	9.6	5.8	2.7	2.5			
50		4.3	9.0	14.5	20.0	24.9	28.7	30.8	30.8	28.7	24.9	20.0	14.5	9.0	4.3				
40	4.5	5.8	11.8	18.6	25.8	33.1	40.0	44.3	44.3	40.0	33.1	25.8	18.6	11.8	5.8	4.5			
30		7.1	14.1	22.3	32.6	46.7	63.9	78.4	78.4	63.9	46.7	32.6	22.3	14.1	7.1				
20	6.0	8.2	15.9	25.9	42.3	74.7	152.4	260.8	260.8	152.4	74.7	42.3	25.9	15.9	8.2	6.0			
10		8.8	17.1	29.4	54.4	143.7	516.8	1283.3	1283.3	516.8	143.7	54.4	29.4	17.1	8.8				
0	6.6	9.2	17.8	31.7	65.0	239.4	1250.5	5490.6	5490.6	1250.5	239.4	65.0	31.7	17.8	9.2	6.6			
-10		9.2	17.8	31.7	65.0	239.4	1250.5	5490.6	5490.6	1250.5	239.4	65.0	31.7	17.8	9.2				
-20	6.0	8.8	17.1	29.4	54.4	143.7	516.8	1283.3	1283.3	516.8	143.7	54.4	29.4	17.1	8.8	6.0			
-30		8.2	15.9	25.9	42.3	74.7	152.4	260.8	260.8	152.4	74.7	42.3	25.9	15.9	8.2				
-40	4.5	7.1	14.1	22.3	32.6	46.7	63.9	78.4	78.4	63.9	46.7	32.6	22.3	14.1	7.1	4.5			
-50		5.8	11.8	18.6	25.8	33.1	40.0	44.3	44.3	40.0	33.1	25.8	18.6	11.8	5.8				
-60	2.5	4.3	9.0	14.5	20.0	24.9	28.7	30.8	30.8	28.7	24.9	20.0	14.5	9.0	4.3	2.5			
-70		2.7	5.8	9.6	13.7	17.3	19.9	21.3	21.3	19.9	17.3	13.7	9.6	5.8	2.7				
-80	0.7	5.4	14.4	23.4	27.2	23.4	14.4	5.4	0.7										
-90																			

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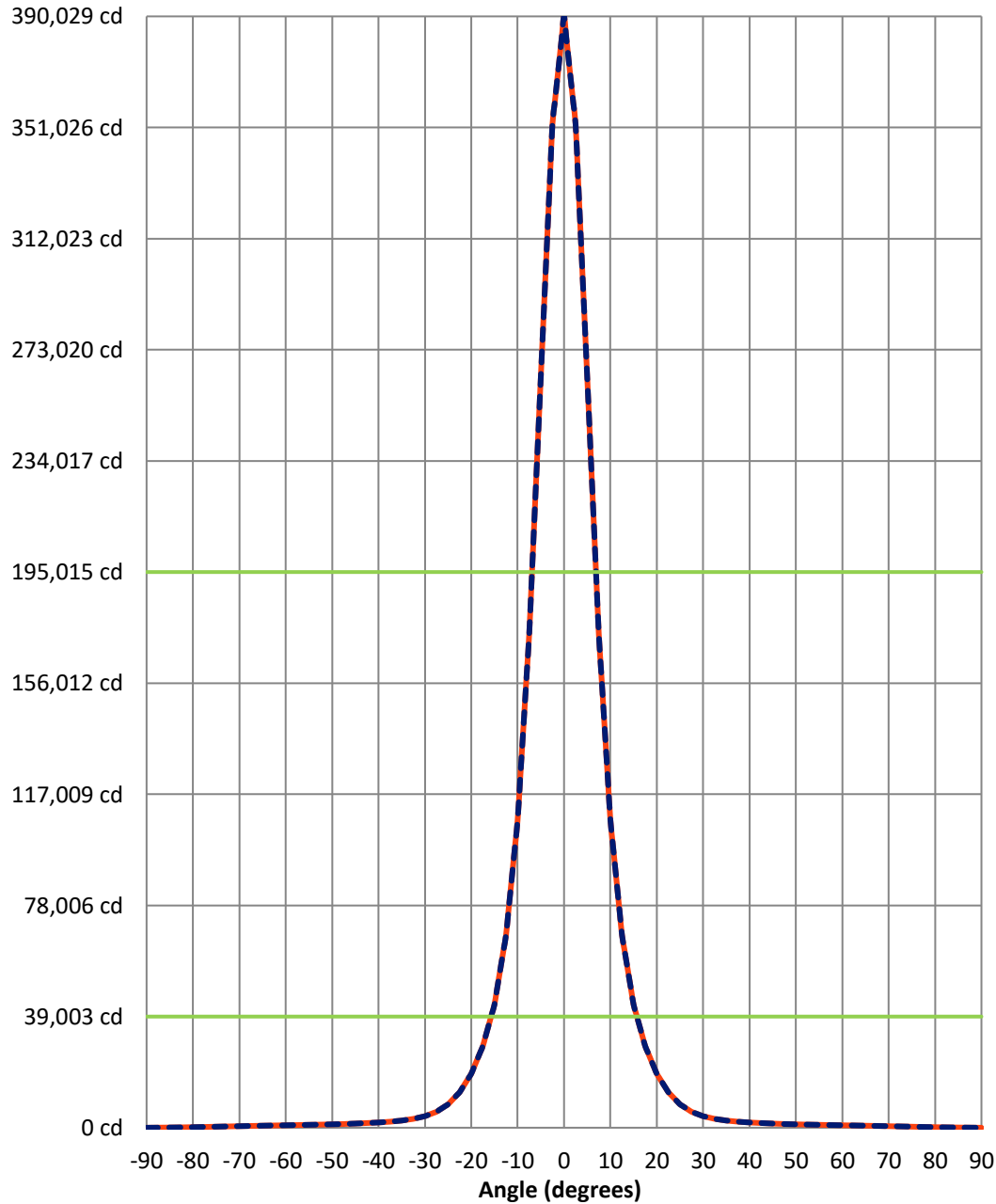
### Luminous Intensity Polar Plot



— 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: 9165.7  
 Efficiency: 21.9%

**Field:**  
 H Angle: 31.4°  
 V Angle: 31.4°  
 Lumens: 21341.7  
 Efficiency: 50.9%

**Spill:**  
 Lumens: 20573.7  
 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°	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	34.9	30.5	30.5
85°	78.5	78.5	78.5	78.5	78.5	78.5	74.1	74.1	74.1	69.8	69.8
82.5°	130.8	130.8	130.8	130.8	126.5	126.5	126.5	122.1	122.1	117.7	117.7
80°	200.6	200.6	200.6	200.6	196.2	191.9	191.9	187.5	183.1	178.8	174.4
77.5°	274.7	274.7	274.7	270.4	270.4	266.0	261.6	257.3	252.9	244.2	239.8
75°	361.9	361.9	361.9	357.6	353.2	348.8	344.5	335.8	331.4	322.7	314.0
72.5°	453.5	453.5	453.5	449.1	444.8	436.1	431.7	423.0	414.3	401.2	392.5
70°	540.7	540.7	540.7	536.4	527.6	523.3	514.6	505.8	497.1	484.0	470.9
67.5°	627.9	627.9	627.9	619.2	614.8	610.5	601.8	588.7	580.0	566.9	549.4
65°	710.8	710.8	706.4	702.1	697.7	689.0	680.3	671.5	658.4	645.4	627.9
62.5°	793.6	793.6	789.3	784.9	780.5	771.8	758.7	750.0	732.6	719.5	702.1
60°	863.4	863.4	859.0	854.7	850.3	841.6	832.9	819.8	806.7	793.6	776.2
57.5°	937.5	937.5	933.2	928.8	920.1	911.4	902.6	889.6	872.1	854.7	841.6
55°	1020.4	1020.4	1016.0	1007.3	998.6	989.9	976.8	959.3	941.9	924.4	902.6
52.5°	1098.9	1098.9	1094.5	1085.8	1077.1	1068.3	1050.9	1037.8	1016.0	994.2	968.1
50°	1194.8	1194.8	1186.1	1177.4	1168.6	1151.2	1133.8	1112.0	1090.1	1064.0	1042.2
47.5°	1303.8	1303.8	1295.1	1286.4	1268.9	1251.5	1225.3	1199.2	1173.0	1142.5	1107.6
45°	1456.4	1456.4	1443.4	1425.9	1404.1	1373.6	1338.7	1303.8	1264.6	1229.7	1190.4
42.5°	1643.9	1643.9	1626.5	1604.7	1574.2	1534.9	1487.0	1439.0	1386.7	1330.0	1277.7
40°	1840.2	1840.2	1818.4	1796.6	1761.7	1713.7	1661.4	1600.3	1534.9	1460.8	1395.4
37.5°	2110.5	2110.5	2080.0	2040.8	1988.4	1923.0	1844.5	1774.8	1700.6	1617.8	1530.6
35°	2511.7	2511.7	2463.7	2398.3	2315.5	2206.5	2088.7	1988.4	1875.1	1774.8	1678.8
32.5°	3104.7	3104.7	3021.9	2926.0	2786.4	2612.0	2441.9	2280.6	2110.5	1966.6	1827.1
30°	4037.9	4037.9	3898.4	3723.9	3488.5	3187.6	2934.7	2673.0	2424.5	2215.2	2023.3
27.5°	5590.3	5524.9	5333.0	5014.7	4578.6	4037.9	3649.8	3209.4	2860.6	2520.4	2271.9
25°	8206.6	8084.5	7722.6	7125.2	6318.5	5424.6	4718.2	3968.1	3436.1	2952.1	2564.0
22.5°	12458.2	12235.8	11573.0	10491.6	9030.8	7600.5	6296.7	5141.1	4190.5	3514.6	2952.1
20°	18929.3	18541.3	17398.8	15549.9	13055.6	10844.8	8520.6	6806.9	5285.0	4190.5	3436.1
17.5°	28653.5	27981.9	26015.3	22845.2	18929.3	15327.5	11786.7	8965.4	6806.9	5141.1	3968.1
15°	43200.4	42023.1	38586.9	33123.1	26848.2	21135.8	16108.0	11786.7	8520.6	6296.7	4718.2
12.5°	67624.1	65243.2	58362.2	47630.8	37627.6	28239.2	21135.8	15327.5	10844.8	7600.5	5424.6
10°	107977.1	103058.3	89108.8	67994.8	51934.7	37627.6	26848.2	18929.3	13055.6	9030.8	6318.5
7.5°	173386.0	162829.0	133983.7	98431.7	67994.8	47630.8	33123.1	22845.2	15549.9	10491.6	7125.2
5°	263602.4	242357.6	189027.5	133983.7	89108.8	58362.2	38586.9	26015.3	17398.8	11573.0	7722.6
2.5°	352052.7	315436.8	242357.6	162829.0	103058.3	65243.2	42023.1	27981.9	18541.3	12235.8	8084.5
0°	390029.1	352052.7	263602.4	173386.0	107977.1	67624.1	43200.4	28653.5	18929.3	12458.2	8206.6



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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°	30.5	30.5	30.5	30.5	26.2	26.2	26.2	26.2	21.8	21.8	21.8
85°	69.8	65.4	65.4	61.0	61.0	56.7	56.7	52.3	52.3	48.0	43.6
82.5°	113.4	109.0	104.7	100.3	100.3	95.9	91.6	82.9	78.5	74.1	69.8
80°	170.1	161.3	157.0	148.3	143.9	135.2	126.5	122.1	113.4	109.0	100.3
77.5°	231.1	222.4	218.0	204.9	196.2	187.5	178.8	165.7	157.0	143.9	130.8
75°	300.9	292.2	279.1	266.0	257.3	244.2	231.1	218.0	200.6	187.5	174.4
72.5°	379.4	366.3	353.2	335.8	318.3	305.2	283.4	266.0	252.9	235.5	218.0
70°	457.9	444.8	427.3	409.9	388.1	370.7	348.8	327.0	305.2	283.4	261.6
67.5°	536.4	518.9	501.5	479.7	457.9	436.1	414.3	388.1	361.9	335.8	309.6
65°	610.5	593.0	571.2	549.4	527.6	501.5	475.3	449.1	418.6	388.1	361.9
62.5°	684.6	662.8	641.0	619.2	593.0	566.9	540.7	505.8	475.3	444.8	409.9
60°	754.4	732.6	710.8	684.6	658.4	627.9	597.4	566.9	532.0	497.1	462.2
57.5°	819.8	798.0	776.2	745.7	719.5	689.0	654.1	623.6	584.3	549.4	510.2
55°	880.8	859.0	832.9	806.7	780.5	745.7	710.8	675.9	636.6	597.4	553.8
52.5°	941.9	915.7	889.6	863.4	832.9	802.3	767.5	728.2	689.0	645.4	601.8
50°	1011.7	981.1	946.2	915.7	880.8	850.3	815.4	776.2	736.9	689.0	645.4
47.5°	1077.1	1046.5	1011.7	972.4	937.5	898.3	859.0	824.2	780.5	736.9	689.0
45°	1151.2	1107.6	1072.7	1033.5	989.9	946.2	907.0	863.4	824.2	776.2	728.2
42.5°	1229.7	1181.7	1133.8	1085.8	1046.5	998.6	950.6	907.0	859.0	815.4	767.5
40°	1321.3	1264.6	1203.5	1151.2	1098.9	1050.9	998.6	946.2	898.3	850.3	802.3
37.5°	1439.0	1360.5	1282.0	1216.6	1155.6	1098.9	1046.5	989.9	937.5	880.8	832.9
35°	1578.5	1469.5	1377.9	1286.4	1216.6	1151.2	1085.8	1033.5	972.4	915.7	863.4
32.5°	1718.1	1600.3	1482.6	1377.9	1282.0	1203.5	1133.8	1072.7	1011.7	946.2	889.6
30°	1862.0	1731.2	1600.3	1469.5	1360.5	1264.6	1181.7	1107.6	1046.5	981.1	915.7
27.5°	2045.1	1862.0	1718.1	1578.5	1439.0	1321.3	1229.7	1151.2	1077.1	1011.7	941.9
25°	2271.9	2023.3	1827.1	1678.8	1530.6	1395.4	1277.7	1190.4	1107.6	1042.2	968.1
22.5°	2520.4	2215.2	1966.6	1774.8	1617.8	1460.8	1330.0	1229.7	1142.5	1064.0	994.2
20°	2860.6	2424.5	2110.5	1875.1	1700.6	1534.9	1386.7	1264.6	1173.0	1090.1	1016.0
17.5°	3209.4	2673.0	2280.6	1988.4	1774.8	1600.3	1439.0	1303.8	1199.2	1112.0	1037.8
15°	3649.8	2934.7	2441.9	2088.7	1844.5	1661.4	1487.0	1338.7	1225.3	1133.8	1050.9
12.5°	4037.9	3187.6	2612.0	2206.5	1923.0	1713.7	1534.9	1373.6	1251.5	1151.2	1068.3
10°	4578.6	3488.5	2786.4	2315.5	1988.4	1761.7	1574.2	1404.1	1268.9	1168.6	1077.1
7.5°	5014.7	3723.9	2926.0	2398.3	2040.8	1796.6	1604.7	1425.9	1286.4	1177.4	1085.8
5°	5333.0	3898.4	3021.9	2463.7	2080.0	1818.4	1626.5	1443.4	1295.1	1186.1	1094.5
2.5°	5524.9	4037.9	3104.7	2511.7	2110.5	1840.2	1643.9	1456.4	1303.8	1194.8	1098.9
0°	5590.3	4037.9	3104.7	2511.7	2110.5	1840.2	1643.9	1456.4	1303.8	1194.8	1098.9





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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°	21.8	17.4	17.4	17.4	13.1	13.1	13.1	8.7	8.7	8.7	4.4
85°	39.2	39.2	34.9	30.5	30.5	26.2	21.8	21.8	17.4	13.1	13.1
82.5°	65.4	61.0	56.7	52.3	48.0	39.2	34.9	30.5	26.2	21.8	17.4
80°	91.6	87.2	78.5	69.8	65.4	56.7	52.3	43.6	34.9	30.5	26.2
77.5°	122.1	113.4	104.7	95.9	82.9	74.1	65.4	56.7	48.0	39.2	30.5
75°	161.3	143.9	130.8	117.7	104.7	91.6	78.5	69.8	56.7	48.0	34.9
72.5°	200.6	183.1	161.3	143.9	126.5	113.4	95.9	82.9	69.8	56.7	43.6
70°	239.8	218.0	196.2	174.4	152.6	130.8	113.4	95.9	78.5	65.4	52.3
67.5°	279.1	257.3	231.1	204.9	183.1	157.0	130.8	113.4	91.6	74.1	56.7
65°	327.0	296.5	266.0	239.8	209.3	183.1	152.6	126.5	104.7	82.9	65.4
62.5°	375.0	340.1	305.2	270.4	239.8	204.9	174.4	143.9	117.7	95.9	69.8
60°	423.0	383.7	344.5	305.2	266.0	231.1	196.2	161.3	130.8	104.7	78.5
57.5°	470.9	427.3	383.7	340.1	296.5	257.3	218.0	183.1	143.9	113.4	87.2
55°	514.6	470.9	423.0	375.0	327.0	279.1	239.8	200.6	161.3	122.1	91.6
52.5°	553.8	510.2	462.2	409.9	361.9	309.6	261.6	218.0	174.4	130.8	100.3
50°	597.4	549.4	497.1	444.8	388.1	335.8	283.4	235.5	187.5	143.9	109.0
47.5°	636.6	584.3	532.0	475.3	418.6	361.9	305.2	252.9	200.6	157.0	113.4
45°	675.9	623.6	566.9	505.8	449.1	388.1	327.0	266.0	218.0	165.7	122.1
42.5°	710.8	654.1	597.4	540.7	475.3	414.3	348.8	283.4	231.1	178.8	126.5
40°	745.7	689.0	627.9	566.9	501.5	436.1	370.7	305.2	244.2	187.5	135.2
37.5°	780.5	719.5	658.4	593.0	527.6	457.9	388.1	318.3	257.3	196.2	143.9
35°	806.7	745.7	684.6	619.2	549.4	479.7	409.9	335.8	266.0	204.9	148.3
32.5°	832.9	776.2	710.8	641.0	571.2	501.5	427.3	353.2	279.1	218.0	157.0
30°	859.0	798.0	732.6	662.8	593.0	518.9	444.8	366.3	292.2	222.4	161.3
27.5°	880.8	819.8	754.4	684.6	610.5	536.4	457.9	379.4	300.9	231.1	170.1
25°	902.6	841.6	776.2	702.1	627.9	549.4	470.9	392.5	314.0	239.8	174.4
22.5°	924.4	854.7	793.6	719.5	645.4	566.9	484.0	401.2	322.7	244.2	178.8
20°	941.9	872.1	806.7	732.6	658.4	580.0	497.1	414.3	331.4	252.9	183.1
17.5°	959.3	889.6	819.8	750.0	671.5	588.7	505.8	423.0	335.8	257.3	187.5
15°	976.8	902.6	832.9	758.7	680.3	601.8	514.6	431.7	344.5	261.6	191.9
12.5°	989.9	911.4	841.6	771.8	689.0	610.5	523.3	436.1	348.8	266.0	191.9
10°	998.6	920.1	850.3	780.5	697.7	614.8	527.6	444.8	353.2	270.4	196.2
7.5°	1007.3	928.8	854.7	784.9	702.1	619.2	536.4	449.1	357.6	270.4	200.6
5°	1016.0	933.2	859.0	789.3	706.4	627.9	540.7	453.5	361.9	274.7	200.6
2.5°	1020.4	937.5	863.4	793.6	710.8	627.9	540.7	453.5	361.9	274.7	200.6
0°	1020.4	937.5	863.4	793.6	710.8	627.9	540.7	453.5	361.9	274.7	200.6



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.4	4.4	0.0	0.0
85°	8.7	4.4	4.4	0.0
82.5°	13.1	8.7	4.4	0.0
80°	17.4	13.1	4.4	0.0
77.5°	21.8	13.1	8.7	0.0
75°	26.2	17.4	8.7	0.0
72.5°	30.5	21.8	8.7	0.0
70°	34.9	21.8	13.1	0.0
67.5°	39.2	26.2	13.1	0.0
65°	48.0	30.5	13.1	0.0
62.5°	52.3	30.5	17.4	0.0
60°	56.7	34.9	17.4	0.0
57.5°	61.0	39.2	17.4	0.0
55°	65.4	39.2	21.8	0.0
52.5°	69.8	43.6	21.8	0.0
50°	74.1	48.0	21.8	0.0
47.5°	78.5	52.3	21.8	0.0
45°	82.9	52.3	26.2	0.0
42.5°	91.6	56.7	26.2	0.0
40°	95.9	56.7	26.2	0.0
37.5°	100.3	61.0	26.2	0.0
35°	100.3	61.0	30.5	0.0
32.5°	104.7	65.4	30.5	0.0
30°	109.0	65.4	30.5	0.0
27.5°	113.4	69.8	30.5	0.0
25°	117.7	69.8	30.5	0.0
22.5°	117.7	69.8	30.5	0.0
20°	122.1	74.1	34.9	0.0
17.5°	122.1	74.1	34.9	0.0
15°	126.5	74.1	34.9	0.0
12.5°	126.5	78.5	34.9	0.0
10°	126.5	78.5	34.9	0.0
7.5°	130.8	78.5	34.9	0.0
5°	130.8	78.5	34.9	0.0
2.5°	130.8	78.5	34.9	0.0
0°	130.8	78.5	34.9	0.0

(END OF REPORT)