

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: P623264

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

Issue Date: 10/13/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P623264  
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-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:	38516.2 lumens	Max Intensity:	358399.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	78.9 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

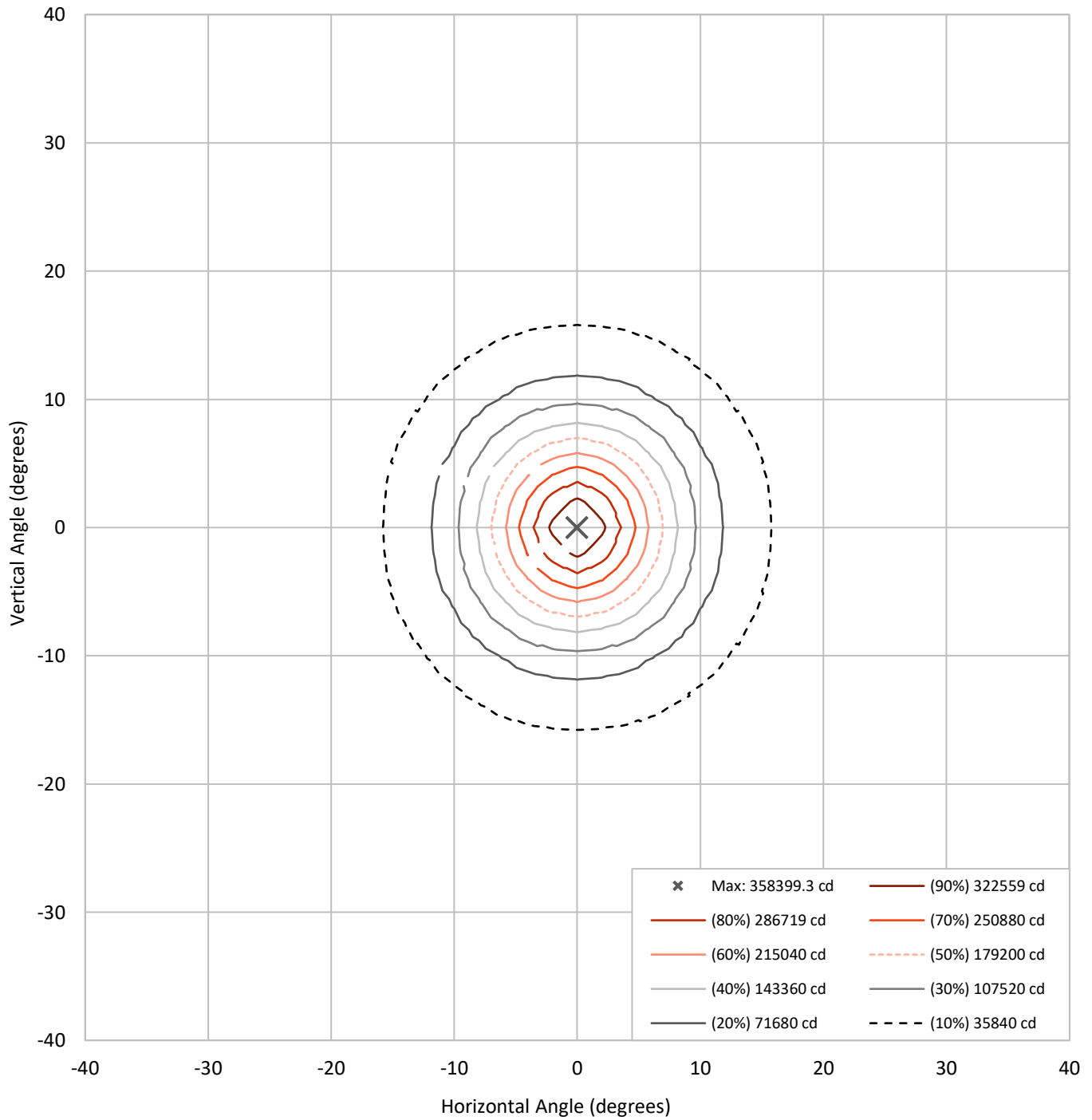
Beam Angle (50%):	13.8°H x 13.8°V	Field Angle (10%):	31.4°H x 31.4°V
Beam Lumens:	8422.4 lumens	Field Lumens:	19610.9 lumens
Beam Efficiency:	21.9%	Field Efficiency:	50.9%

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





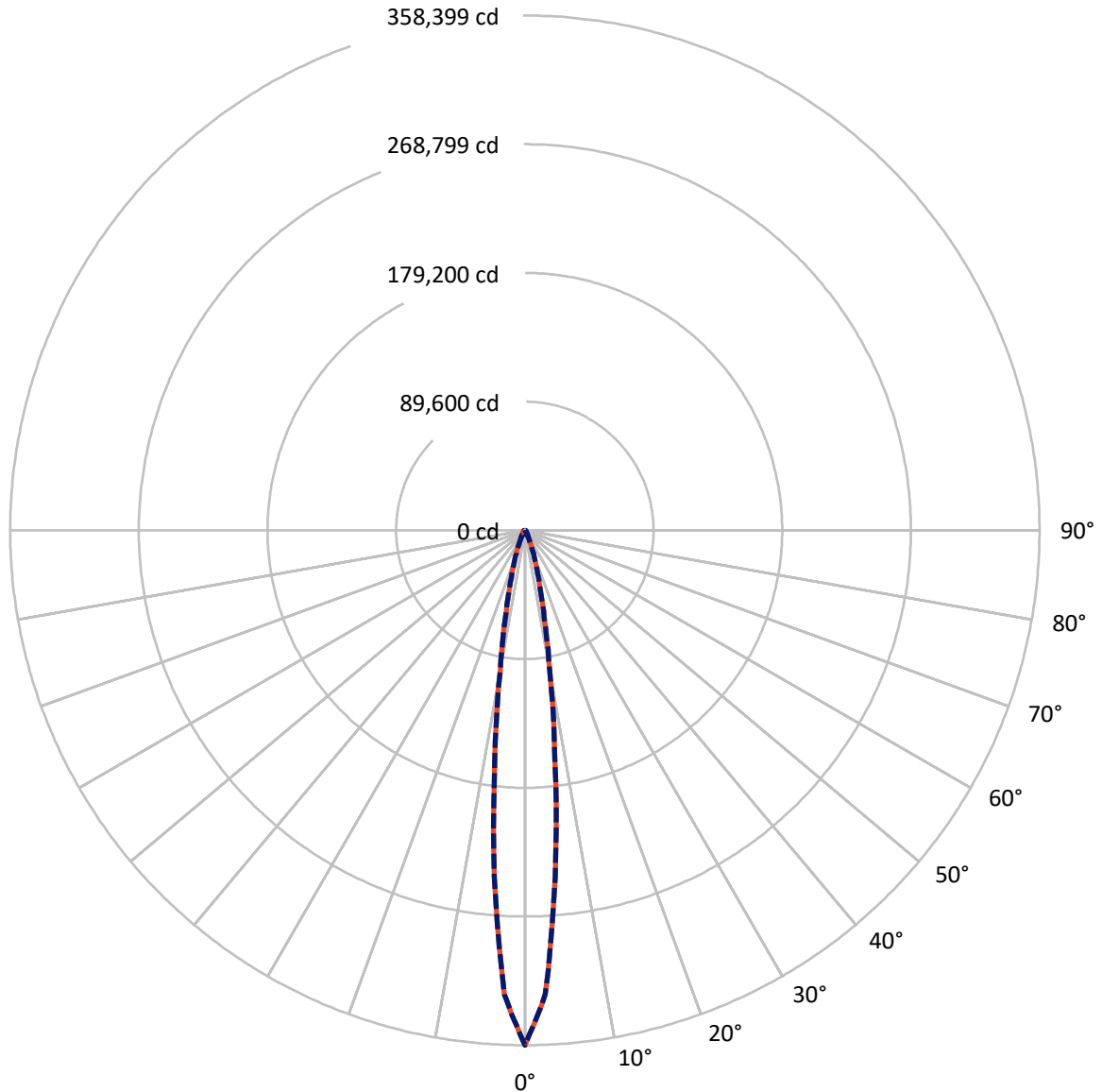
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### Lumen Table

90	0.6	5.0		13.2		21.5		25.0		21.5		13.2		5.0		0.6
80	0.6	5.0		13.2		21.5		25.0		21.5		13.2		5.0		0.6
70	2.3	2.5	5.3	8.9	12.6	15.9	18.3	19.6	19.6	18.3	15.9	12.6	8.9	5.3	2.5	2.3
60		4.0	8.3	13.3	18.4	22.9	26.4	28.3	28.3	26.4	22.9	18.4	13.3	8.3	4.0	
50	4.1	5.4	10.9	17.1	23.7	30.4	36.7	40.7	40.7	36.7	30.4	23.7	17.1	10.9	5.4	4.1
40		6.6	12.9	20.5	30.0	42.9	58.7	72.1	72.1	58.7	42.9	30.0	20.5	12.9	6.6	
30	5.5	7.5	14.6	23.8	38.9	68.6	140.1	239.7	239.7	140.1	68.6	38.9	23.8	14.6	7.5	5.5
20		8.1	15.8	27.0	50.0	132.0	474.9	1179.3	1179.3	474.9	132.0	50.0	27.0	15.8	8.1	
10	6.1	8.4	16.4	29.1	59.7	220.0	1149.0	5045.3	5045.3	1149.0	220.0	59.7	29.1	16.4	8.4	6.1
0		8.4	16.4	29.1	59.7	220.0	1149.0	5045.3	5045.3	1149.0	220.0	59.7	29.1	16.4	8.4	
-10	5.5	8.1	15.8	27.0	50.0	132.0	474.9	1179.3	1179.3	474.9	132.0	50.0	27.0	15.8	8.1	5.5
-20		7.5	14.6	23.8	38.9	68.6	140.1	239.7	239.7	140.1	68.6	38.9	23.8	14.6	7.5	
-30	4.1	6.6	12.9	20.5	30.0	42.9	58.7	72.1	72.1	58.7	42.9	30.0	20.5	12.9	6.6	4.1
-40		5.4	10.9	17.1	23.7	30.4	36.7	40.7	40.7	36.7	30.4	23.7	17.1	10.9	5.4	
-50	2.3	4.0	8.3	13.3	18.4	22.9	26.4	28.3	28.3	26.4	22.9	18.4	13.3	8.3	4.0	2.3
-60		2.5	5.3	8.9	12.6	15.9	18.3	19.6	19.6	18.3	15.9	12.6	8.9	5.3	2.5	
-70	0.6	5.0		13.2		21.5		25.0		21.5		13.2		5.0		0.6
-80		5.0		13.2		21.5		25.0		21.5		13.2		5.0		
-90	0.6	5.0		13.2		21.5		25.0		21.5		13.2		5.0		0.6

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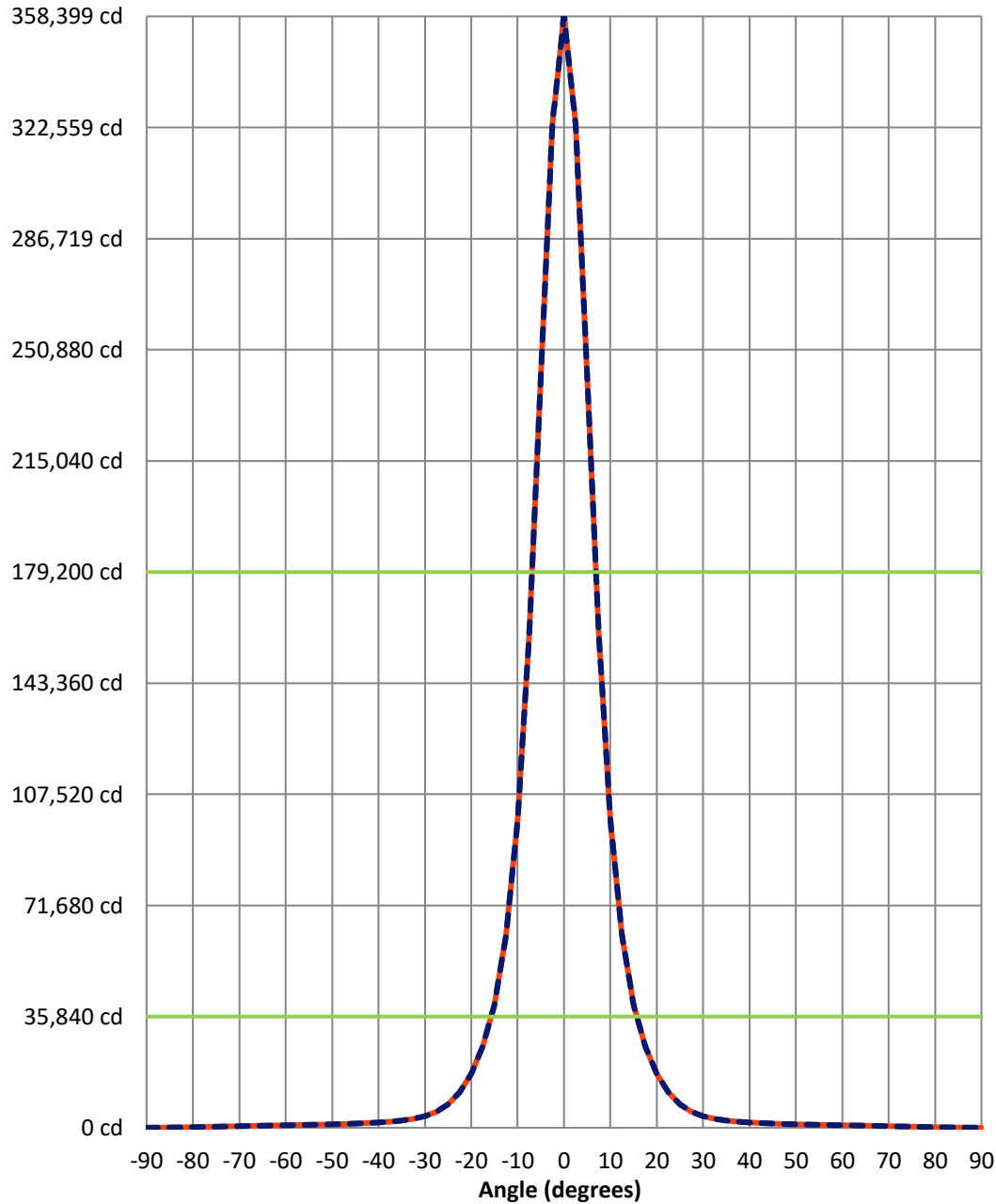
### Luminous Intensity Polar Plot



— 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: 8422.4  
Efficiency: 21.9%

**Field:**  
H Angle: 31.4°  
V Angle: 31.4°  
Lumens: 19610.9  
Efficiency: 50.9%

**Spill:**  
Lumens: 18905.3  
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°	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	32.1	28.0	28.0
85°	72.1	72.1	72.1	72.1	72.1	72.1	68.1	68.1	68.1	64.1	64.1
82.5°	120.2	120.2	120.2	120.2	116.2	116.2	116.2	112.2	112.2	108.2	108.2
80°	184.3	184.3	184.3	184.3	180.3	176.3	176.3	172.3	168.3	164.3	160.3
77.5°	252.4	252.4	252.4	248.4	248.4	244.4	240.4	236.4	232.4	224.4	220.4
75°	332.6	332.6	332.6	328.6	324.6	320.6	316.6	308.5	304.5	296.5	288.5
72.5°	416.7	416.7	416.7	412.7	408.7	400.7	396.7	388.7	380.7	368.6	360.6
70°	496.9	496.9	496.9	492.9	484.8	480.8	472.8	464.8	456.8	444.8	432.8
67.5°	577.0	577.0	577.0	569.0	565.0	561.0	553.0	540.9	532.9	520.9	504.9
65°	653.1	653.1	649.1	645.1	641.1	633.1	625.1	617.1	605.1	593.0	577.0
62.5°	729.3	729.3	725.3	721.3	717.2	709.2	697.2	689.2	673.2	661.1	645.1
60°	793.4	793.4	789.4	785.4	781.4	773.3	765.3	753.3	741.3	729.3	713.2
57.5°	861.5	861.5	857.5	853.5	845.5	837.5	829.4	817.4	801.4	785.4	773.3
55°	937.6	937.6	933.6	925.6	917.6	909.6	897.6	881.5	865.5	849.5	829.4
52.5°	1009.8	1009.8	1005.7	997.7	989.7	981.7	965.7	953.7	933.6	913.6	889.5
50°	1097.9	1097.9	1089.9	1081.9	1073.9	1057.8	1041.8	1021.8	1001.7	977.7	957.7
47.5°	1198.1	1198.1	1190.1	1182.1	1166.0	1150.0	1126.0	1101.9	1077.9	1049.8	1017.8
45°	1338.3	1338.3	1326.3	1310.3	1290.2	1262.2	1230.1	1198.1	1162.0	1130.0	1093.9
42.5°	1510.6	1510.6	1494.6	1474.6	1446.5	1410.5	1366.4	1322.3	1274.2	1222.1	1174.0
40°	1690.9	1690.9	1670.9	1650.9	1618.8	1574.7	1526.7	1470.6	1410.5	1342.3	1282.2
37.5°	1939.4	1939.4	1911.3	1875.3	1827.2	1767.1	1694.9	1630.8	1562.7	1486.6	1406.4
35°	2308.0	2308.0	2263.9	2203.8	2127.7	2027.5	1919.3	1827.2	1723.0	1630.8	1542.7
32.5°	2853.0	2853.0	2776.8	2688.7	2560.5	2400.2	2243.9	2095.6	1939.4	1807.1	1678.9
30°	3710.5	3710.5	3582.2	3422.0	3205.6	2929.1	2696.7	2456.3	2227.9	2035.5	1859.2
27.5°	5136.9	5076.8	4900.5	4608.0	4207.3	3710.5	3353.8	2949.1	2628.6	2316.0	2087.6
25°	7541.1	7428.9	7096.3	6547.4	5806.1	4984.7	4335.5	3646.3	3157.5	2712.7	2356.1
22.5°	11447.9	11243.6	10634.5	9640.8	8298.4	6984.1	5786.1	4724.2	3850.7	3229.6	2712.7
20°	17394.3	17037.6	15987.8	14288.9	11996.9	9965.3	7829.6	6254.9	4856.4	3850.7	3157.5
17.5°	26329.8	25712.7	23905.6	20992.5	17394.3	14084.5	10830.8	8238.3	6254.9	4724.2	3646.3
15°	39697.0	38615.2	35457.7	30436.9	24670.9	19421.8	14801.7	10830.8	7829.6	5786.1	4335.5
12.5°	62140.1	59952.3	53629.3	43768.1	34576.1	25949.1	19421.8	14084.5	9965.3	6984.1	4984.7
10°	99220.6	94700.7	81882.4	62480.7	47723.0	34576.1	24670.9	17394.3	11996.9	8298.4	5806.1
7.5°	159325.1	149624.2	123118.1	90449.3	62480.7	43768.1	30436.9	20992.5	14288.9	9640.8	6547.4
5°	242225.3	222703.3	173698.1	123118.1	81882.4	53629.3	35457.7	23905.6	15987.8	10634.5	7096.3
2.5°	323502.6	289856.1	222703.3	149624.2	94700.7	59952.3	38615.2	25712.7	17037.6	11243.6	7428.9
0°	358399.3	323502.6	242225.3	159325.1	99220.6	62140.1	39697.0	26329.8	17394.3	11447.9	7541.1



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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°	28.0	28.0	28.0	28.0	24.0	24.0	24.0	24.0	20.0	20.0	20.0
85°	64.1	60.1	60.1	56.1	56.1	52.1	52.1	48.1	48.1	44.1	40.1
82.5°	104.2	100.2	96.2	92.2	92.2	88.2	84.1	76.1	72.1	68.1	64.1
80°	156.3	148.3	144.3	136.2	132.2	124.2	116.2	112.2	104.2	100.2	92.2
77.5°	212.4	204.4	200.3	188.3	180.3	172.3	164.3	152.3	144.3	132.2	120.2
75°	276.5	268.5	256.4	244.4	236.4	224.4	212.4	200.3	184.3	172.3	160.3
72.5°	348.6	336.6	324.6	308.5	292.5	280.5	260.5	244.4	232.4	216.4	200.3
70°	420.7	408.7	392.7	376.7	356.6	340.6	320.6	300.5	280.5	260.5	240.4
67.5°	492.9	476.8	460.8	440.8	420.7	400.7	380.7	356.6	332.6	308.5	284.5
65°	561.0	544.9	524.9	504.9	484.8	460.8	436.8	412.7	384.7	356.6	332.6
62.5°	629.1	609.1	589.0	569.0	544.9	520.9	496.9	464.8	436.8	408.7	376.7
60°	693.2	673.2	653.1	629.1	605.1	577.0	549.0	520.9	488.9	456.8	424.7
57.5°	753.3	733.3	713.2	685.2	661.1	633.1	601.0	573.0	536.9	504.9	468.8
55°	809.4	789.4	765.3	741.3	717.2	685.2	653.1	621.1	585.0	549.0	508.9
52.5°	865.5	841.5	817.4	793.4	765.3	737.3	705.2	669.2	633.1	593.0	553.0
50°	929.6	901.6	869.5	841.5	809.4	781.4	749.3	713.2	677.2	633.1	593.0
47.5°	989.7	961.7	929.6	893.6	861.5	825.4	789.4	757.3	717.2	677.2	633.1
45°	1057.8	1017.8	985.7	949.7	909.6	869.5	833.4	793.4	757.3	713.2	669.2
42.5°	1130.0	1085.9	1041.8	997.7	961.7	917.6	873.5	833.4	789.4	749.3	705.2
40°	1214.1	1162.0	1105.9	1057.8	1009.8	965.7	917.6	869.5	825.4	781.4	737.3
37.5°	1322.3	1250.2	1178.0	1117.9	1061.8	1009.8	961.7	909.6	861.5	809.4	765.3
35°	1450.5	1350.3	1266.2	1182.1	1117.9	1057.8	997.7	949.7	893.6	841.5	793.4
32.5°	1578.7	1470.6	1362.4	1266.2	1178.0	1105.9	1041.8	985.7	929.6	869.5	817.4
30°	1711.0	1590.8	1470.6	1350.3	1250.2	1162.0	1085.9	1017.8	961.7	901.6	841.5
27.5°	1879.3	1711.0	1578.7	1450.5	1322.3	1214.1	1130.0	1057.8	989.7	929.6	865.5
25°	2087.6	1859.2	1678.9	1542.7	1406.4	1282.2	1174.0	1093.9	1017.8	957.7	889.5
22.5°	2316.0	2035.5	1807.1	1630.8	1486.6	1342.3	1222.1	1130.0	1049.8	977.7	913.6
20°	2628.6	2227.9	1939.4	1723.0	1562.7	1410.5	1274.2	1162.0	1077.9	1001.7	933.6
17.5°	2949.1	2456.3	2095.6	1827.2	1630.8	1470.6	1322.3	1198.1	1101.9	1021.8	953.7
15°	3353.8	2696.7	2243.9	1919.3	1694.9	1526.7	1366.4	1230.1	1126.0	1041.8	965.7
12.5°	3710.5	2929.1	2400.2	2027.5	1767.1	1574.7	1410.5	1262.2	1150.0	1057.8	981.7
10°	4207.3	3205.6	2560.5	2127.7	1827.2	1618.8	1446.5	1290.2	1166.0	1073.9	989.7
7.5°	4608.0	3422.0	2688.7	2203.8	1875.3	1650.9	1474.6	1310.3	1182.1	1081.9	997.7
5°	4900.5	3582.2	2776.8	2263.9	1911.3	1670.9	1494.6	1326.3	1190.1	1089.9	1005.7
2.5°	5076.8	3710.5	2853.0	2308.0	1939.4	1690.9	1510.6	1338.3	1198.1	1097.9	1009.8
0°	5136.9	3710.5	2853.0	2308.0	1939.4	1690.9	1510.6	1338.3	1198.1	1097.9	1009.8





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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°	20.0	16.0	16.0	16.0	12.0	12.0	12.0	8.0	8.0	8.0	4.0
85°	36.1	36.1	32.1	28.0	28.0	24.0	20.0	20.0	16.0	12.0	12.0
82.5°	60.1	56.1	52.1	48.1	44.1	36.1	32.1	28.0	24.0	20.0	16.0
80°	84.1	80.1	72.1	64.1	60.1	52.1	48.1	40.1	32.1	28.0	24.0
77.5°	112.2	104.2	96.2	88.2	76.1	68.1	60.1	52.1	44.1	36.1	28.0
75°	148.3	132.2	120.2	108.2	96.2	84.1	72.1	64.1	52.1	44.1	32.1
72.5°	184.3	168.3	148.3	132.2	116.2	104.2	88.2	76.1	64.1	52.1	40.1
70°	220.4	200.3	180.3	160.3	140.2	120.2	104.2	88.2	72.1	60.1	48.1
67.5°	256.4	236.4	212.4	188.3	168.3	144.3	120.2	104.2	84.1	68.1	52.1
65°	300.5	272.5	244.4	220.4	192.3	168.3	140.2	116.2	96.2	76.1	60.1
62.5°	344.6	312.5	280.5	248.4	220.4	188.3	160.3	132.2	108.2	88.2	64.1
60°	388.7	352.6	316.6	280.5	244.4	212.4	180.3	148.3	120.2	96.2	72.1
57.5°	432.8	392.7	352.6	312.5	272.5	236.4	200.3	168.3	132.2	104.2	80.1
55°	472.8	432.8	388.7	344.6	300.5	256.4	220.4	184.3	148.3	112.2	84.1
52.5°	508.9	468.8	424.7	376.7	332.6	284.5	240.4	200.3	160.3	120.2	92.2
50°	549.0	504.9	456.8	408.7	356.6	308.5	260.5	216.4	172.3	132.2	100.2
47.5°	585.0	536.9	488.9	436.8	384.7	332.6	280.5	232.4	184.3	144.3	104.2
45°	621.1	573.0	520.9	464.8	412.7	356.6	300.5	244.4	200.3	152.3	112.2
42.5°	653.1	601.0	549.0	496.9	436.8	380.7	320.6	260.5	212.4	164.3	116.2
40°	685.2	633.1	577.0	520.9	460.8	400.7	340.6	280.5	224.4	172.3	124.2
37.5°	717.2	661.1	605.1	544.9	484.8	420.7	356.6	292.5	236.4	180.3	132.2
35°	741.3	685.2	629.1	569.0	504.9	440.8	376.7	308.5	244.4	188.3	136.2
32.5°	765.3	713.2	653.1	589.0	524.9	460.8	392.7	324.6	256.4	200.3	144.3
30°	789.4	733.3	673.2	609.1	544.9	476.8	408.7	336.6	268.5	204.4	148.3
27.5°	809.4	753.3	693.2	629.1	561.0	492.9	420.7	348.6	276.5	212.4	156.3
25°	829.4	773.3	713.2	645.1	577.0	504.9	432.8	360.6	288.5	220.4	160.3
22.5°	849.5	785.4	729.3	661.1	593.0	520.9	444.8	368.6	296.5	224.4	164.3
20°	865.5	801.4	741.3	673.2	605.1	532.9	456.8	380.7	304.5	232.4	168.3
17.5°	881.5	817.4	753.3	689.2	617.1	540.9	464.8	388.7	308.5	236.4	172.3
15°	897.6	829.4	765.3	697.2	625.1	553.0	472.8	396.7	316.6	240.4	176.3
12.5°	909.6	837.5	773.3	709.2	633.1	561.0	480.8	400.7	320.6	244.4	176.3
10°	917.6	845.5	781.4	717.2	641.1	565.0	484.8	408.7	324.6	248.4	180.3
7.5°	925.6	853.5	785.4	721.3	645.1	569.0	492.9	412.7	328.6	248.4	184.3
5°	933.6	857.5	789.4	725.3	649.1	577.0	496.9	416.7	332.6	252.4	184.3
2.5°	937.6	861.5	793.4	729.3	653.1	577.0	496.9	416.7	332.6	252.4	184.3
0°	937.6	861.5	793.4	729.3	653.1	577.0	496.9	416.7	332.6	252.4	184.3



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.0	4.0	0.0	0.0
85°	8.0	4.0	4.0	0.0
82.5°	12.0	8.0	4.0	0.0
80°	16.0	12.0	4.0	0.0
77.5°	20.0	12.0	8.0	0.0
75°	24.0	16.0	8.0	0.0
72.5°	28.0	20.0	8.0	0.0
70°	32.1	20.0	12.0	0.0
67.5°	36.1	24.0	12.0	0.0
65°	44.1	28.0	12.0	0.0
62.5°	48.1	28.0	16.0	0.0
60°	52.1	32.1	16.0	0.0
57.5°	56.1	36.1	16.0	0.0
55°	60.1	36.1	20.0	0.0
52.5°	64.1	40.1	20.0	0.0
50°	68.1	44.1	20.0	0.0
47.5°	72.1	48.1	20.0	0.0
45°	76.1	48.1	24.0	0.0
42.5°	84.1	52.1	24.0	0.0
40°	88.2	52.1	24.0	0.0
37.5°	92.2	56.1	24.0	0.0
35°	92.2	56.1	28.0	0.0
32.5°	96.2	60.1	28.0	0.0
30°	100.2	60.1	28.0	0.0
27.5°	104.2	64.1	28.0	0.0
25°	108.2	64.1	28.0	0.0
22.5°	108.2	64.1	28.0	0.0
20°	112.2	68.1	32.1	0.0
17.5°	112.2	68.1	32.1	0.0
15°	116.2	68.1	32.1	0.0
12.5°	116.2	72.1	32.1	0.0
10°	116.2	72.1	32.1	0.0
7.5°	120.2	72.1	32.1	0.0
5°	120.2	72.1	32.1	0.0
2.5°	120.2	72.1	32.1	0.0
0°	120.2	72.1	32.1	0.0

(END OF REPORT)