

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: P624167

Luminaire Tested: **EPH-VN-08-E-935-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624167
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-E-935-U-55
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens
Light Source: (128) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	47401.3 lumens	Max Intensity:	57926.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	75.6 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

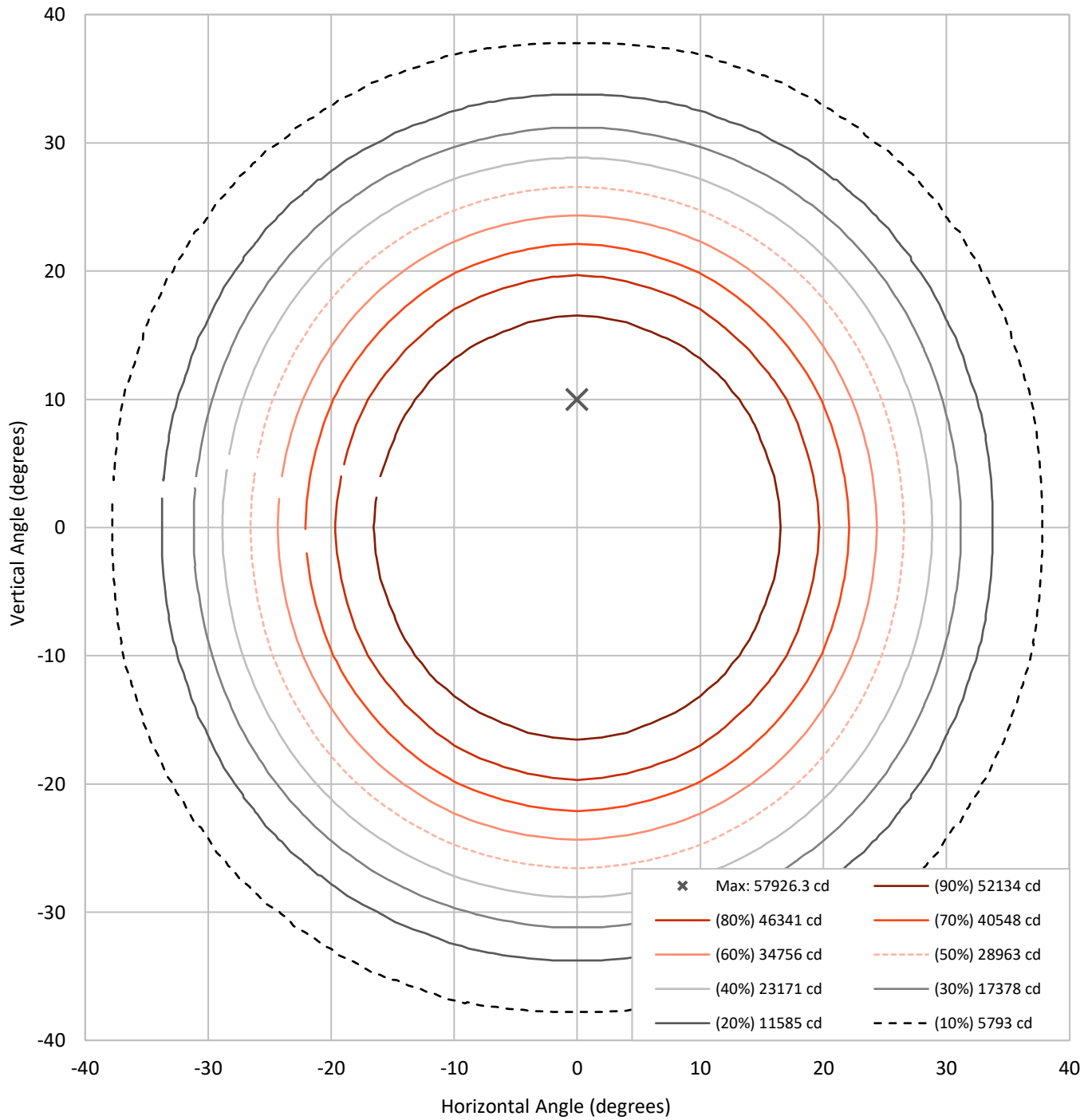
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	23559.6 lumens	Field Lumens:	30640 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

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





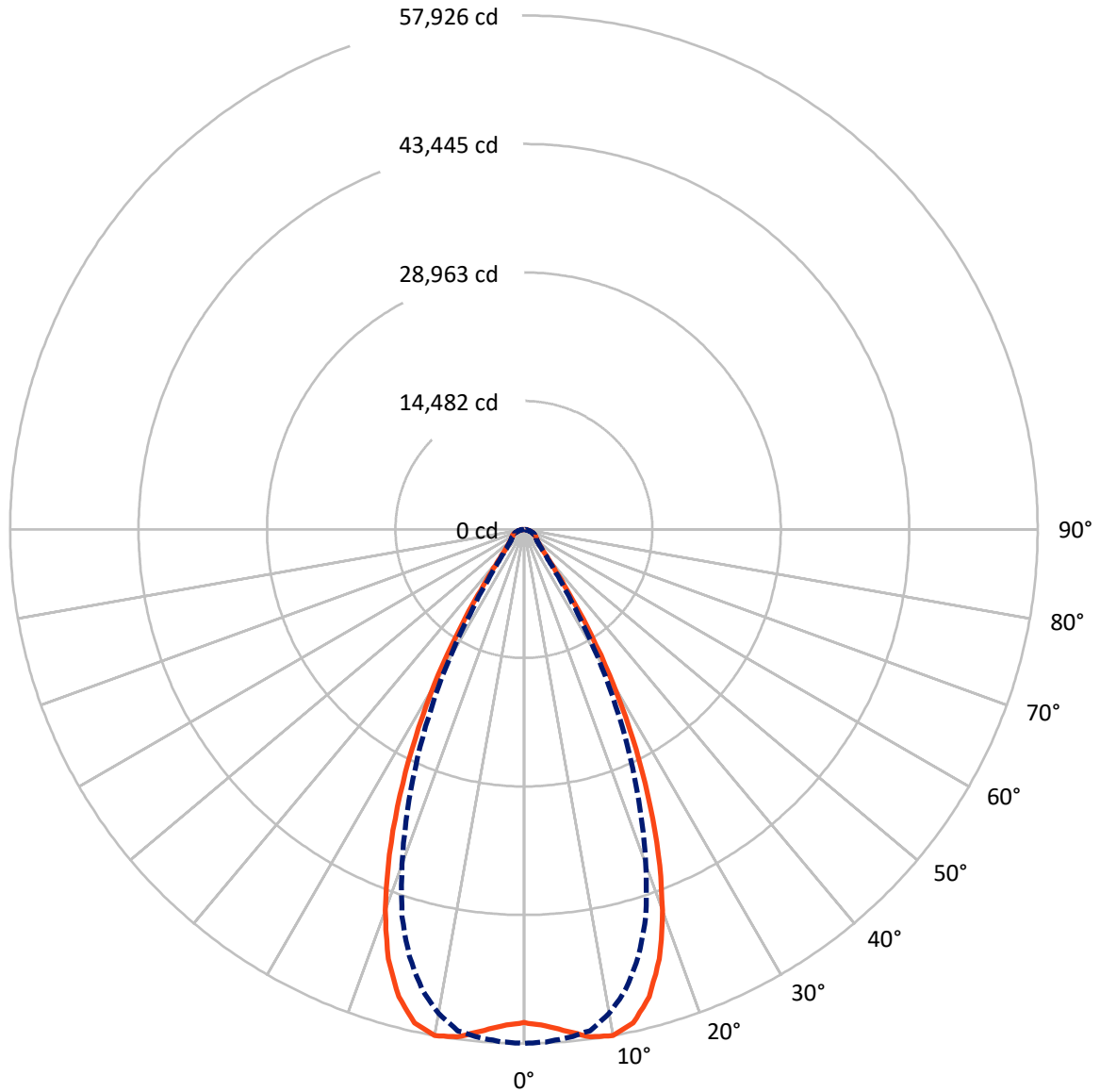
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Lumen Table

90	1.4	10.4	27.1	43.7	50.7	43.7	27.1	10.4	1.4										
80																			
70	4.8	5.1	10.7	17.7	24.9	31.1	35.6	38.0	38.0	35.6	31.1	24.9	17.7	10.7	5.1	4.8			
60		8.0	16.4	26.0	34.9	42.4	48.2	51.4	51.4	48.2	42.4	34.9	26.0	16.4	8.0				
50	8.4	10.7	21.2	32.0	42.9	55.5	70.3	81.7	81.7	70.3	55.5	42.9	32.0	21.2	10.7	8.4			
40		13.0	24.5	37.1	56.2	100.2	195.7	295.1	295.1	195.7	100.2	56.2	37.1	24.5	13.0				
30	11.2	14.7	27.0	43.5	90.9	289.6	671.1	952.5	952.5	671.1	289.6	90.9	43.5	27.0	14.7	11.2			
20		15.7	28.7	51.8	167.8	632.1	1236.8	1576.6	1576.6	1236.8	632.1	167.8	51.8	28.7	15.7				
10	12.2	16.3	29.7	58.5	246.2	870.8	1530.0	1735.1	1735.1	1530.0	870.8	246.2	58.5	29.7	16.3	12.2			
0		16.3	29.7	58.5	246.2	870.8	1530.0	1735.1	1735.1	1530.0	870.8	246.2	58.5	29.7	16.3				
-10	11.2	15.7	28.7	51.8	167.8	632.1	1236.8	1576.6	1576.6	1236.8	632.1	167.8	51.8	28.7	15.7	11.2			
-20		14.7	27.0	43.5	90.9	289.6	671.1	952.5	952.5	671.1	289.6	90.9	43.5	27.0	14.7				
-30	8.4	13.0	24.5	37.1	56.2	100.2	195.7	295.1	295.1	195.7	100.2	56.2	37.1	24.5	13.0	8.4			
-40		10.7	21.2	32.0	42.9	55.5	70.3	81.7	81.7	70.3	55.5	42.9	32.0	21.2	10.7				
-50	4.8	8.0	16.4	26.0	34.9	42.4	48.2	51.4	51.4	48.2	42.4	34.9	26.0	16.4	8.0	4.8			
-60		5.1	10.7	17.7	24.9	31.1	35.6	38.0	38.0	35.6	31.1	24.9	17.7	10.7	5.1				
-70	1.4															1.4			
-80																			
-90																			

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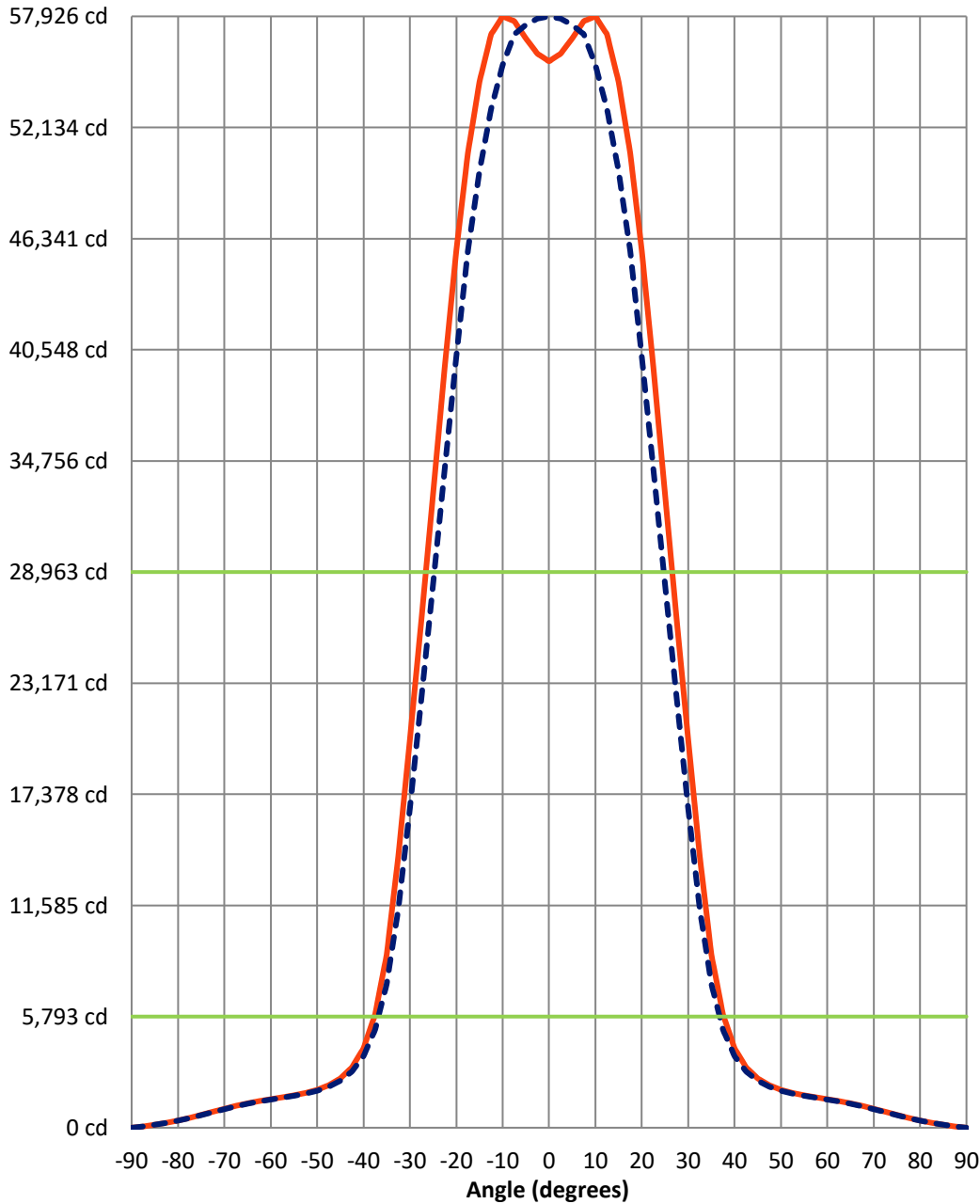
Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg - - - Horizontal Distribution Through 10-Deg

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Luminous Intensity Plot



Beam:
 H Angle: 49.5°
 V Angle: 53.1°
 Lumens: 23559.6
 Efficiency: 49.7%

Field:
 H Angle: 73.6°
 V Angle: 75.3°
 Lumens: 30640
 Efficiency: 64.6%

Spill:
 Lumens: 16761.3
 Efficiency: 35.4%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through 10-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°	64.0	64.0	64.0	64.0	64.0	64.0	64.0	59.1	59.1	59.1	59.1
85°	157.6	157.6	157.6	157.6	157.6	152.6	152.6	147.7	147.7	142.8	137.9
82.5°	256.0	256.0	256.0	256.0	251.1	251.1	246.2	241.3	236.4	231.4	226.5
80°	374.2	374.2	374.2	374.2	369.3	364.4	359.5	354.5	344.7	339.8	329.9
77.5°	512.1	512.1	512.1	507.2	502.3	497.3	487.5	477.6	467.8	457.9	448.1
75°	669.7	669.7	669.7	659.8	654.9	645.0	635.2	625.4	610.6	595.8	581.0
72.5°	832.2	832.2	832.2	822.3	812.5	802.6	792.8	778.0	763.2	743.5	723.8
70°	984.8	984.8	984.8	975.0	965.1	955.3	940.5	925.7	906.0	886.3	866.6
67.5°	1142.4	1142.4	1142.4	1127.6	1117.8	1107.9	1093.1	1073.4	1053.7	1029.1	1004.5
65°	1270.4	1270.4	1265.5	1260.6	1250.7	1235.9	1226.1	1206.4	1186.7	1167.0	1142.4
62.5°	1388.6	1388.6	1383.7	1378.7	1368.9	1354.1	1339.3	1324.6	1304.9	1280.2	1255.6
60°	1487.1	1487.1	1482.1	1477.2	1467.4	1457.5	1442.7	1428.0	1408.3	1388.6	1364.0
57.5°	1585.5	1585.5	1580.6	1575.7	1565.8	1551.1	1536.3	1521.5	1501.8	1477.2	1452.6
55°	1688.9	1688.9	1684.0	1674.2	1664.3	1649.6	1634.8	1615.1	1590.5	1565.8	1541.2
52.5°	1812.0	1812.0	1802.2	1792.3	1777.6	1762.8	1738.2	1713.6	1684.0	1654.5	1624.9
50°	1974.5	1974.5	1964.7	1949.9	1925.3	1900.7	1871.1	1831.7	1797.3	1757.9	1718.5
47.5°	2215.8	2215.8	2196.1	2171.5	2137.0	2097.6	2043.5	1984.4	1935.1	1885.9	1826.8
45°	2570.3	2570.3	2540.8	2501.4	2447.2	2378.3	2299.5	2215.8	2132.1	2048.4	1964.7
42.5°	3146.5	3146.5	3092.3	3023.4	2929.8	2811.6	2663.9	2526.0	2407.9	2274.9	2161.7
40°	4141.1	4141.1	4037.7	3909.7	3732.4	3505.9	3235.1	3018.4	2811.6	2580.2	2422.6
37.5°	5908.8	5908.8	5707.0	5460.8	5116.1	4682.8	4160.8	3811.2	3427.1	3062.7	2796.9
35°	9030.7	9030.7	8641.7	8164.0	7499.3	6662.2	5771.0	5111.1	4377.5	3816.1	3318.8
32.5°	14151.7	14151.7	13452.5	12590.8	11404.1	9902.2	8474.3	7218.6	5908.8	4978.2	4082.0
30°	20237.8	20237.8	19321.9	18194.3	16648.2	14698.2	12664.6	10434.0	8365.9	6706.5	5352.4
27.5°	26530.7	26269.7	25481.9	24196.7	22433.9	20237.8	17701.9	14821.3	12024.5	9099.6	7164.5
25°	33040.3	32735.0	31833.9	30356.7	28337.8	25851.2	22995.2	19774.9	16323.2	12837.0	9488.6
22.5°	39618.8	39274.1	38249.9	36580.7	34315.6	31528.6	28293.5	24713.7	20858.2	16830.4	12837.0
20°	45700.0	45335.6	44262.1	42524.0	40180.1	37122.3	33527.8	29559.0	25294.8	20858.2	16323.2
17.5°	50791.4	50441.8	49407.8	47748.4	45700.0	42317.2	38579.8	34217.1	29559.0	24713.7	19774.9
15°	54509.1	54208.7	53327.3	51933.8	49846.0	46852.2	43045.9	38579.8	33527.8	28293.5	22995.2
12.5°	56976.0	56734.7	56040.4	54957.2	53086.0	50574.8	46852.2	42317.2	37122.3	31528.6	25851.2
10°	57926.3	57808.2	57483.2	56985.9	55390.5	53086.0	49846.0	45700.0	40180.1	34315.6	28337.8
7.5°	57675.2	57714.6	57827.9	57699.8	56985.9	54957.2	51933.8	47748.4	42524.0	36580.7	30356.7
5°	56779.0	56990.8	57517.6	57827.9	57483.2	56040.4	53327.3	49407.8	44262.1	38249.9	31833.9
2.5°	55981.4	56311.3	56990.8	57714.6	57808.2	56734.7	54208.7	50441.8	45335.6	39274.1	32735.0
0°	55587.4	55981.4	56779.0	57675.2	57926.3	56976.0	54509.1	50791.4	45700.0	39618.8	33040.3



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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°	59.1	54.2	54.2	54.2	49.2	49.2	49.2	44.3	44.3	39.4	39.4
85°	137.9	132.9	128.0	123.1	118.2	113.3	108.3	103.4	98.5	88.6	83.7
82.5°	221.6	216.7	211.7	201.9	197.0	187.1	177.3	167.4	157.6	152.6	142.8
80°	320.1	310.2	300.4	290.5	275.7	261.0	251.1	236.4	226.5	211.7	201.9
77.5°	433.3	418.5	403.8	384.1	369.3	354.5	334.8	320.1	300.4	280.7	261.0
75°	561.3	541.6	517.0	497.3	477.6	453.0	428.4	403.8	379.2	354.5	329.9
72.5°	699.2	674.6	650.0	625.4	595.8	561.3	531.8	497.3	467.8	438.2	403.8
70°	842.0	812.5	782.9	753.4	718.9	679.5	645.0	605.7	566.3	526.9	487.5
67.5°	975.0	945.4	910.9	881.4	842.0	802.6	758.3	714.0	669.7	620.4	571.2
65°	1112.8	1078.4	1039.0	999.6	960.2	915.9	871.6	827.2	773.1	718.9	669.7
62.5°	1226.1	1196.5	1162.1	1122.7	1078.4	1029.1	984.8	925.7	871.6	817.4	753.4
60°	1334.4	1299.9	1270.4	1226.1	1186.7	1142.4	1088.2	1029.1	970.0	906.0	846.9
57.5°	1428.0	1398.4	1364.0	1324.6	1280.2	1235.9	1186.7	1132.5	1063.6	999.6	930.6
55°	1511.7	1477.2	1442.7	1408.3	1368.9	1319.6	1270.4	1216.2	1157.1	1088.2	1014.4
52.5°	1595.4	1560.9	1521.5	1487.1	1442.7	1398.4	1349.2	1295.0	1235.9	1171.9	1093.1
50°	1679.1	1639.7	1600.3	1556.0	1511.7	1467.4	1418.1	1368.9	1304.9	1240.9	1171.9
47.5°	1777.6	1728.3	1679.1	1629.9	1585.5	1531.4	1482.1	1428.0	1373.8	1304.9	1235.9
45°	1900.7	1826.8	1767.7	1708.6	1654.5	1600.3	1541.2	1487.1	1428.0	1368.9	1295.0
42.5°	2053.3	1954.8	1876.1	1797.3	1728.3	1664.3	1605.2	1541.2	1482.1	1418.1	1349.2
40°	2260.1	2127.2	1999.2	1900.7	1812.0	1733.3	1664.3	1600.3	1531.4	1467.4	1398.4
37.5°	2531.0	2343.8	2166.6	2023.8	1910.5	1812.0	1728.3	1654.5	1585.5	1511.7	1442.7
35°	2939.6	2614.7	2388.2	2181.3	2023.8	1900.7	1797.3	1708.6	1629.9	1556.0	1487.1
32.5°	3515.8	3013.5	2649.1	2388.2	2166.6	1999.2	1876.1	1767.7	1679.1	1600.3	1521.5
30°	4274.1	3579.8	3013.5	2614.7	2343.8	2127.2	1954.8	1826.8	1728.3	1639.7	1560.9
27.5°	5475.5	4274.1	3515.8	2939.6	2531.0	2260.1	2053.3	1900.7	1777.6	1679.1	1595.4
25°	7164.5	5352.4	4082.0	3318.8	2796.9	2422.6	2161.7	1964.7	1826.8	1718.5	1624.9
22.5°	9099.6	6706.5	4978.2	3816.1	3062.7	2580.2	2274.9	2048.4	1885.9	1757.9	1654.5
20°	12024.5	8365.9	5908.8	4377.5	3427.1	2811.6	2407.9	2132.1	1935.1	1797.3	1684.0
17.5°	14821.3	10434.0	7218.6	5111.1	3811.2	3018.4	2526.0	2215.8	1984.4	1831.7	1713.6
15°	17701.9	12664.6	8474.3	5771.0	4160.8	3235.1	2663.9	2299.5	2043.5	1871.1	1738.2
12.5°	20237.8	14698.2	9902.2	6662.2	4682.8	3505.9	2811.6	2378.3	2097.6	1900.7	1762.8
10°	22433.9	16648.2	11404.1	7499.3	5116.1	3732.4	2929.8	2447.2	2137.0	1925.3	1777.6
7.5°	24196.7	18194.3	12590.8	8164.0	5460.8	3909.7	3023.4	2501.4	2171.5	1949.9	1792.3
5°	25481.9	19321.9	13452.5	8641.7	5707.0	4037.7	3092.3	2540.8	2196.1	1964.7	1802.2
2.5°	26269.7	20237.8	14151.7	9030.7	5908.8	4141.1	3146.5	2570.3	2215.8	1974.5	1812.0
0°	26530.7	20237.8	14151.7	9030.7	5908.8	4141.1	3146.5	2570.3	2215.8	1974.5	1812.0



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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°	34.5	34.5	29.5	29.5	24.6	24.6	19.7	19.7	14.8	14.8	9.8
85°	78.8	68.9	64.0	59.1	54.2	49.2	44.3	39.4	34.5	29.5	24.6
82.5°	132.9	123.1	108.3	98.5	88.6	78.8	64.0	59.1	49.2	39.4	34.5
80°	187.1	172.3	157.6	142.8	128.0	113.3	98.5	83.7	68.9	54.2	44.3
77.5°	241.3	221.6	206.8	187.1	167.4	147.7	128.0	108.3	88.6	68.9	54.2
75°	305.3	280.7	256.0	231.4	206.8	182.2	162.5	137.9	113.3	88.6	68.9
72.5°	374.2	339.8	310.2	280.7	246.2	221.6	192.0	167.4	137.9	108.3	83.7
70°	448.1	408.7	369.3	329.9	295.4	256.0	226.5	192.0	162.5	128.0	98.5
67.5°	521.9	477.6	433.3	384.1	339.8	300.4	256.0	221.6	182.2	147.7	113.3
65°	610.6	551.5	497.3	443.2	389.0	339.8	295.4	246.2	206.8	167.4	128.0
62.5°	694.3	630.3	566.3	502.3	443.2	384.1	329.9	280.7	231.4	187.1	142.8
60°	778.0	709.1	635.2	566.3	497.3	433.3	369.3	310.2	256.0	206.8	157.6
57.5°	861.7	782.9	709.1	630.3	551.5	477.6	408.7	339.8	280.7	221.6	172.3
55°	935.6	861.7	778.0	694.3	610.6	521.9	448.1	374.2	305.3	241.3	187.1
52.5°	1014.4	930.6	846.9	753.4	669.7	571.2	487.5	403.8	329.9	261.0	201.9
50°	1088.2	999.6	906.0	817.4	718.9	620.4	526.9	438.2	354.5	280.7	211.7
47.5°	1157.1	1063.6	970.0	871.6	773.1	669.7	566.3	467.8	379.2	300.4	226.5
45°	1216.2	1132.5	1029.1	925.7	827.2	714.0	605.7	497.3	403.8	320.1	236.4
42.5°	1270.4	1186.7	1088.2	984.8	871.6	758.3	645.0	531.8	428.4	334.8	251.1
40°	1319.6	1235.9	1142.4	1029.1	915.9	802.6	679.5	561.3	453.0	354.5	261.0
37.5°	1368.9	1280.2	1186.7	1078.4	960.2	842.0	718.9	595.8	477.6	369.3	275.7
35°	1408.3	1324.6	1226.1	1122.7	999.6	881.4	753.4	625.4	497.3	384.1	290.5
32.5°	1442.7	1364.0	1270.4	1162.1	1039.0	910.9	782.9	650.0	517.0	403.8	300.4
30°	1477.2	1398.4	1299.9	1196.5	1078.4	945.4	812.5	674.6	541.6	418.5	310.2
27.5°	1511.7	1428.0	1334.4	1226.1	1112.8	975.0	842.0	699.2	561.3	433.3	320.1
25°	1541.2	1452.6	1364.0	1255.6	1142.4	1004.5	866.6	723.8	581.0	448.1	329.9
22.5°	1565.8	1477.2	1388.6	1280.2	1167.0	1029.1	886.3	743.5	595.8	457.9	339.8
20°	1590.5	1501.8	1408.3	1304.9	1186.7	1053.7	906.0	763.2	610.6	467.8	344.7
17.5°	1615.1	1521.5	1428.0	1324.6	1206.4	1073.4	925.7	778.0	625.4	477.6	354.5
15°	1634.8	1536.3	1442.7	1339.3	1226.1	1093.1	940.5	792.8	635.2	487.5	359.5
12.5°	1649.6	1551.1	1457.5	1354.1	1235.9	1107.9	955.3	802.6	645.0	497.3	364.4
10°	1664.3	1565.8	1467.4	1368.9	1250.7	1117.8	965.1	812.5	654.9	502.3	369.3
7.5°	1674.2	1575.7	1477.2	1378.7	1260.6	1127.6	975.0	822.3	659.8	507.2	374.2
5°	1684.0	1580.6	1482.1	1383.7	1265.5	1142.4	984.8	832.2	669.7	512.1	374.2
2.5°	1688.9	1585.5	1487.1	1388.6	1270.4	1142.4	984.8	832.2	669.7	512.1	374.2
0°	1688.9	1585.5	1487.1	1388.6	1270.4	1142.4	984.8	832.2	669.7	512.1	374.2



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	9.8	4.9	4.9	0.0
85°	14.8	9.8	4.9	0.0
82.5°	24.6	14.8	9.8	0.0
80°	34.5	24.6	9.8	0.0
77.5°	39.4	29.5	14.8	0.0
75°	49.2	34.5	14.8	0.0
72.5°	59.1	39.4	19.7	0.0
70°	64.0	44.3	19.7	0.0
67.5°	78.8	49.2	24.6	0.0
65°	88.6	54.2	24.6	0.0
62.5°	98.5	59.1	29.5	0.0
60°	108.3	64.0	29.5	0.0
57.5°	123.1	68.9	34.5	0.0
55°	132.9	78.8	34.5	0.0
52.5°	142.8	83.7	39.4	0.0
50°	152.6	88.6	39.4	0.0
47.5°	157.6	98.5	44.3	0.0
45°	167.4	103.4	44.3	0.0
42.5°	177.3	108.3	49.2	0.0
40°	187.1	113.3	49.2	0.0
37.5°	197.0	118.2	49.2	0.0
35°	201.9	123.1	54.2	0.0
32.5°	211.7	128.0	54.2	0.0
30°	216.7	132.9	54.2	0.0
27.5°	221.6	137.9	59.1	0.0
25°	226.5	137.9	59.1	0.0
22.5°	231.4	142.8	59.1	0.0
20°	236.4	147.7	59.1	0.0
17.5°	241.3	147.7	59.1	0.0
15°	246.2	152.6	64.0	0.0
12.5°	251.1	152.6	64.0	0.0
10°	251.1	157.6	64.0	0.0
7.5°	256.0	157.6	64.0	0.0
5°	256.0	157.6	64.0	0.0
2.5°	256.0	157.6	64.0	0.0
0°	256.0	157.6	64.0	0.0

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