

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: P624101

Luminaire Tested: **EPH-VN-08-E-760-U-44**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624101
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-760-U-44
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 4 distribution lens
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	72718.2 lumens	Max Intensity:	235137.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	116.0 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

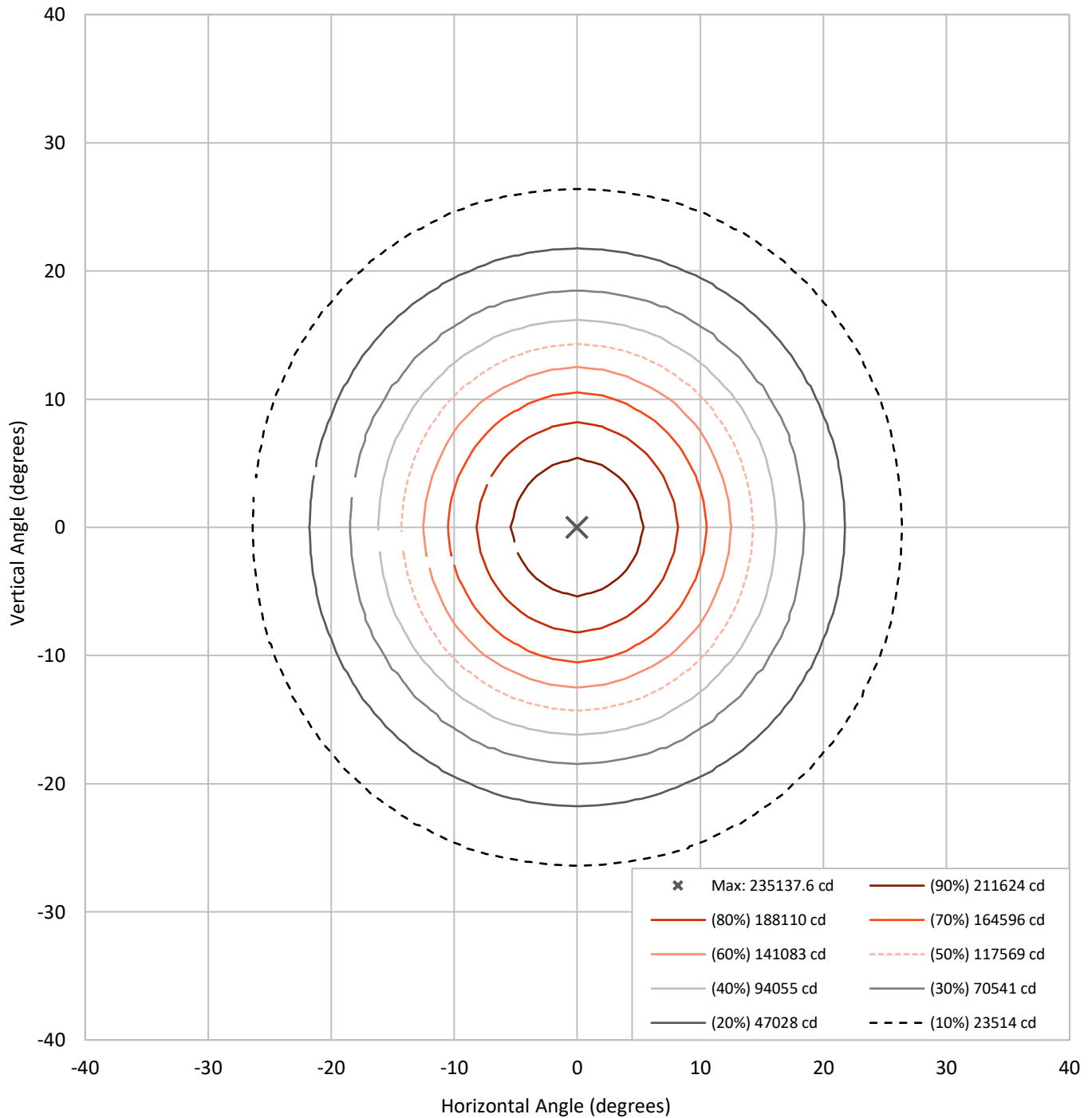
Beam Angle (50%):	28.6°H x 28.6°V	Field Angle (10%):	52.7°H x 52.7°V
Beam Lumens:	26238.1 lumens	Field Lumens:	44306.6 lumens
Beam Efficiency:	36.1%	Field Efficiency:	60.9%

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





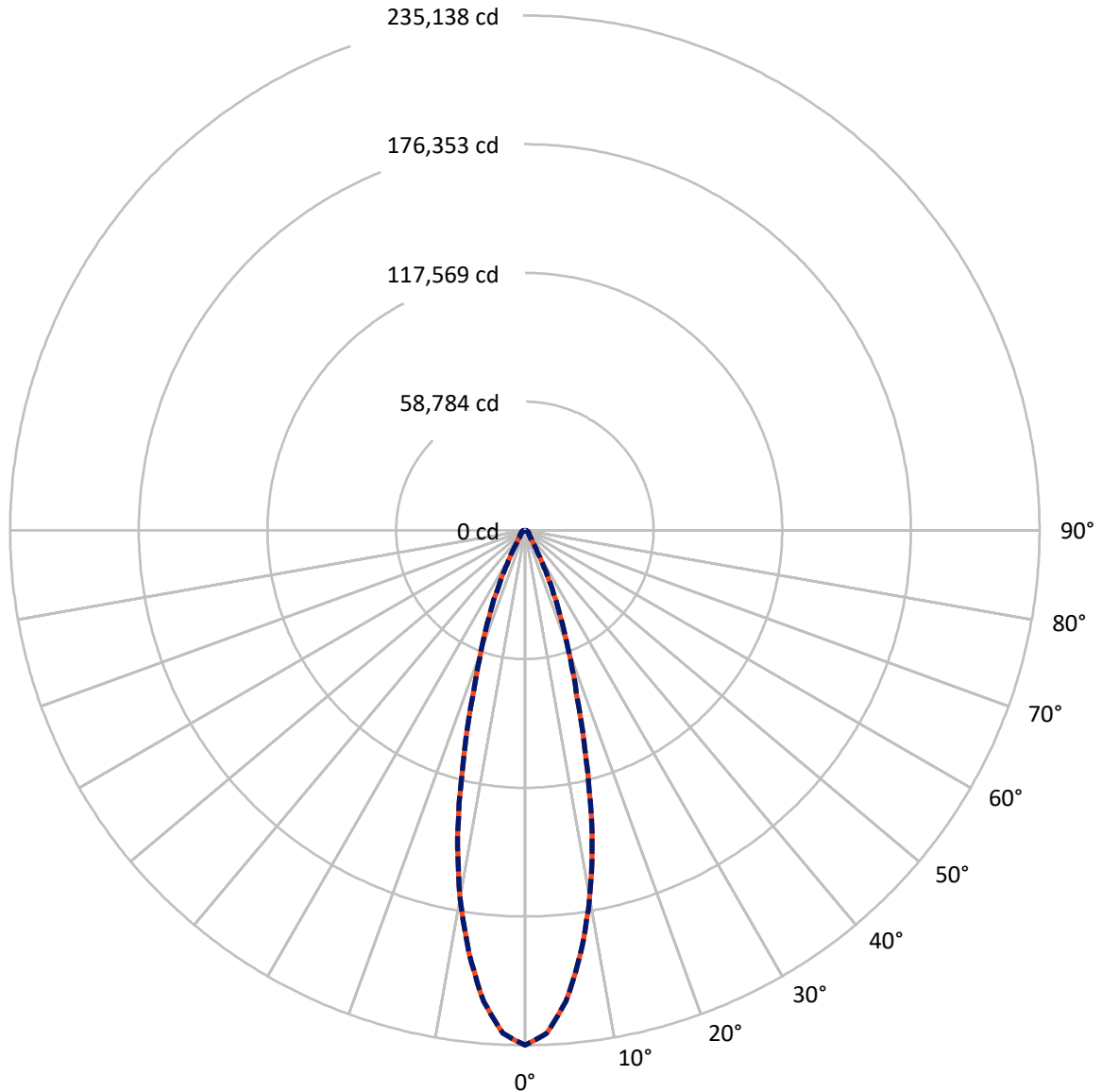
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Lumen Table

90	1.7	12.3	31.3	50.0	57.8	50.0	31.3	12.3	1.7										
80																			
70	5.6	5.9	12.1	19.9	28.0	35.1	40.6	43.5	43.5	40.6	35.1	28.0	19.9	12.1	5.9	5.6			
60		9.0	18.4	29.5	40.8	50.7	58.2	62.3	62.3	58.2	50.7	40.8	29.5	18.4	9.0				
50	9.6	12.0	24.0	37.9	52.0	66.1	78.9	87.0	87.0	78.9	66.1	52.0	37.9	24.0	12.0	9.6			
40		14.6	28.7	45.0	64.6	92.0	134.3	178.7	178.7	134.3	92.0	64.6	45.0	28.7	14.6				
30	12.7	16.6	32.2	51.7	83.3	174.5	478.4	866.5	866.5	478.4	174.5	83.3	51.7	32.2	16.6	12.7			
20		18.0	34.7	58.0	114.6	451.6	1553.1	2995.9	2995.9	1553.1	451.6	114.6	58.0	34.7	18.0				
10	13.8	18.7	36.1	62.1	148.5	795.6	2914.7	5746.3	5746.3	2914.7	795.6	148.5	62.1	36.1	18.7	13.8			
0		18.7	36.1	62.1	148.5	795.6	2914.7	5746.3	5746.3	2914.7	795.6	148.5	62.1	36.1	18.7				
-10	12.7	18.0	34.7	58.0	114.6	451.6	1553.1	2995.9	2995.9	1553.1	451.6	114.6	58.0	34.7	18.0	12.7			
-20		16.6	32.2	51.7	83.3	174.5	478.4	866.5	866.5	478.4	174.5	83.3	51.7	32.2	16.6				
-30	9.6	14.6	28.7	45.0	64.6	92.0	134.3	178.7	178.7	134.3	92.0	64.6	45.0	28.7	14.6	9.6			
-40		12.0	24.0	37.9	52.0	66.1	78.9	87.0	87.0	78.9	66.1	52.0	37.9	24.0	12.0				
-50	5.6	9.0	18.4	29.5	40.8	50.7	58.2	62.3	62.3	58.2	50.7	40.8	29.5	18.4	9.0	5.6			
-60		5.9	12.1	19.9	28.0	35.1	40.6	43.5	43.5	40.6	35.1	28.0	19.9	12.1	5.9				
-70	1.7															1.7			
-80																			
-90																			

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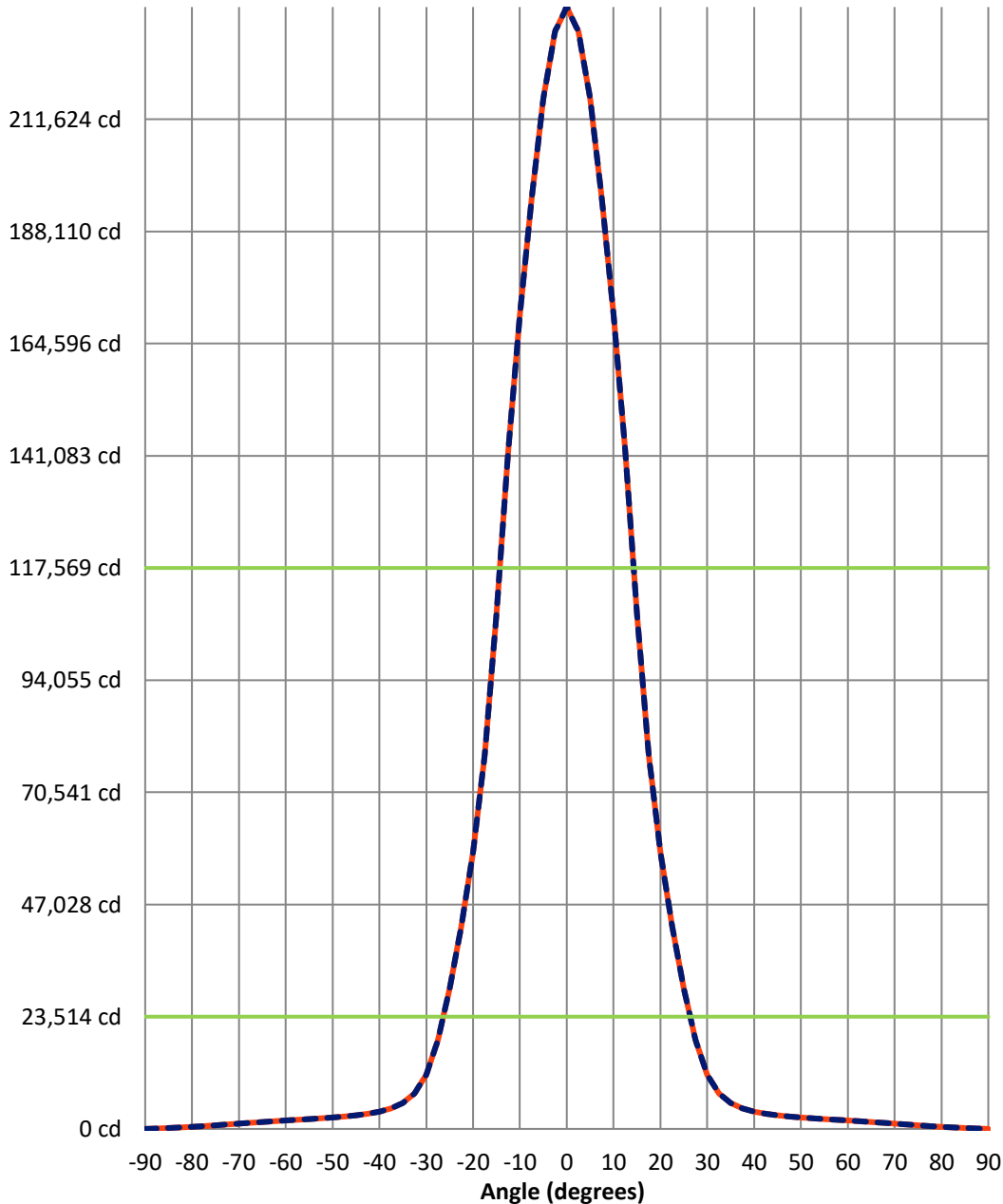
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
H Angle: 28.6°
V Angle: 28.6°
Lumens: 26238.1
Efficiency: 36.1%

Field:
H Angle: 52.7°
V Angle: 52.7°
Lumens: 44306.6
Efficiency: 60.9%

Spill:
Lumens: 28411.6
Efficiency: 39.1%

— 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°	83.4	83.4	83.4	83.4	83.4	83.4	83.4	75.8	75.8	75.8	75.8
85°	189.5	189.5	189.5	189.5	189.5	182.0	182.0	182.0	174.4	174.4	166.8
82.5°	303.3	303.3	303.3	303.3	295.7	295.7	288.1	288.1	280.5	280.5	272.9
80°	432.2	432.2	432.2	432.2	424.6	417.0	417.0	409.4	401.8	394.2	386.7
77.5°	583.8	583.8	583.8	576.2	568.6	568.6	561.0	545.9	538.3	523.1	515.6
75°	750.6	750.6	750.6	743.0	735.4	727.8	712.7	705.1	689.9	674.8	652.0
72.5°	932.5	932.5	932.5	925.0	909.8	902.2	887.1	871.9	856.7	834.0	811.2
70°	1106.9	1106.9	1106.9	1091.8	1084.2	1069.0	1053.9	1038.7	1015.9	993.2	970.5
67.5°	1281.3	1281.3	1281.3	1266.1	1258.6	1243.4	1228.2	1205.5	1182.7	1152.4	1129.7
65°	1440.5	1440.5	1432.9	1425.4	1417.8	1402.6	1379.9	1364.7	1342.0	1311.6	1281.3
62.5°	1607.3	1607.3	1599.7	1592.1	1577.0	1561.8	1539.1	1516.3	1486.0	1455.7	1425.4
60°	1774.1	1774.1	1766.5	1758.9	1743.8	1721.0	1698.3	1675.5	1645.2	1607.3	1569.4
57.5°	1910.6	1910.6	1903.0	1895.4	1880.3	1865.1	1842.3	1819.6	1789.3	1758.9	1713.5
55°	2054.6	2054.6	2047.0	2031.9	2016.7	2001.6	1978.8	1948.5	1918.2	1880.3	1849.9
52.5°	2221.4	2221.4	2213.8	2198.7	2175.9	2153.2	2122.9	2085.0	2047.0	2009.1	1963.6
50°	2388.2	2388.2	2373.1	2357.9	2342.7	2312.4	2282.1	2244.2	2198.7	2153.2	2100.1
47.5°	2592.9	2592.9	2577.8	2555.0	2524.7	2494.4	2448.9	2395.8	2350.3	2297.2	2236.6
45°	2843.1	2843.1	2820.4	2797.6	2759.7	2706.7	2653.6	2592.9	2524.7	2456.5	2380.6
42.5°	3169.1	3169.1	3138.8	3100.9	3047.8	2979.6	2896.2	2812.8	2729.4	2638.4	2547.4
40°	3608.9	3608.9	3563.4	3510.3	3426.9	3328.3	3207.0	3093.3	2979.6	2850.7	2737.0
37.5°	4298.8	4298.8	4223.0	4124.4	3988.0	3821.2	3616.5	3464.8	3290.4	3123.6	2972.0
35°	5428.5	5428.5	5292.0	5117.6	4875.0	4571.7	4245.7	3988.0	3699.8	3464.8	3245.0
32.5°	7437.6	7437.6	7164.7	6823.5	6361.0	5769.6	5223.8	4768.9	4298.8	3934.9	3586.1
30°	11327.0	11327.0	10743.2	10023.0	9029.8	7786.4	6853.8	5981.9	5185.9	4586.9	4078.9
27.5°	18628.1	18324.9	17415.1	15921.5	13874.4	11327.0	9704.5	7862.2	6603.6	5458.8	4753.7
25°	29409.3	28908.9	27407.7	24958.8	21622.9	17839.6	14526.5	11031.3	8825.1	6922.1	5610.4
22.5°	42510.4	41820.4	39781.0	36452.6	31941.5	26907.3	21547.1	16520.4	12047.3	9151.1	6922.1
20°	58022.4	57097.5	54360.5	49917.6	43943.3	37536.8	30379.7	23647.2	17195.2	12047.3	8825.1
17.5°	78500.5	77090.3	72943.1	66271.3	58022.4	49386.9	40440.6	31752.0	23647.2	16520.4	11031.3
15°	107940.1	105559.4	98599.5	87545.4	74702.1	62662.4	51252.0	40440.6	30379.7	21547.1	14526.5
12.5°	141974.2	138661.0	129070.2	114111.6	96658.6	77621.0	62662.4	49386.9	37536.8	26907.3	17839.6
10°	170648.0	167152.8	157243.6	142239.5	120108.7	96658.6	74702.1	58022.4	43943.3	31941.5	21622.9
7.5°	194871.4	190959.3	180276.7	163862.4	142239.5	114111.6	87545.4	66271.3	49917.6	36452.6	24958.8
5°	215910.5	210952.1	198518.2	180276.7	157243.6	129070.2	98599.5	72943.1	54360.5	39781.0	27407.7
2.5°	229966.9	224144.2	210952.1	190959.3	167152.8	138661.0	105559.4	77090.3	57097.5	41820.4	28908.9
0°	235137.6	229966.9	215910.5	194871.4	170648.0	141974.2	107940.1	78500.5	58022.4	42510.4	29409.3



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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°	75.8	75.8	68.2	68.2	68.2	60.7	60.7	60.7	53.1	53.1	53.1
85°	166.8	159.2	159.2	151.6	144.1	136.5	136.5	128.9	121.3	113.7	106.1
82.5°	265.4	257.8	250.2	242.6	235.0	219.9	212.3	204.7	189.5	182.0	174.4
80°	371.5	363.9	348.8	341.2	326.0	310.8	295.7	280.5	265.4	250.2	235.0
77.5°	500.4	477.6	462.5	447.3	424.6	409.4	386.7	371.5	348.8	326.0	303.3
75°	636.9	614.1	591.4	568.6	545.9	515.6	492.8	462.5	439.7	409.4	386.7
72.5°	788.5	758.2	727.8	697.5	667.2	636.9	606.5	568.6	538.3	500.4	462.5
70°	940.1	909.8	879.5	841.6	803.7	765.7	727.8	682.3	644.4	599.0	553.5
67.5°	1099.3	1061.4	1023.5	985.6	947.7	902.2	849.1	803.7	750.6	697.5	652.0
65°	1251.0	1213.1	1167.6	1122.1	1076.6	1031.1	978.0	925.0	864.3	803.7	750.6
62.5°	1387.4	1349.5	1311.6	1258.6	1213.1	1160.0	1106.9	1038.7	978.0	917.4	849.1
60°	1531.5	1486.0	1440.5	1387.4	1334.4	1281.3	1220.6	1152.4	1091.8	1015.9	947.7
57.5°	1668.0	1622.5	1569.4	1516.3	1455.7	1395.0	1334.4	1266.1	1197.9	1122.1	1046.3
55°	1804.4	1758.9	1705.9	1645.2	1577.0	1508.8	1440.5	1372.3	1304.0	1220.6	1137.2
52.5°	1918.2	1872.7	1819.6	1774.1	1698.3	1630.1	1554.2	1470.8	1395.0	1311.6	1228.2
50°	2039.5	1986.4	1925.7	1872.7	1812.0	1743.8	1660.4	1577.0	1486.0	1402.6	1311.6
47.5°	2175.9	2107.7	2039.5	1971.2	1910.6	1834.8	1766.5	1675.5	1584.6	1486.0	1395.0
45°	2312.4	2236.6	2160.8	2077.4	2001.6	1925.7	1849.9	1774.1	1675.5	1577.0	1470.8
42.5°	2456.5	2365.5	2282.1	2198.7	2107.7	2016.7	1933.3	1849.9	1766.5	1660.4	1554.2
40°	2623.3	2517.1	2411.0	2312.4	2221.4	2115.3	2016.7	1925.7	1834.8	1743.8	1630.1
37.5°	2812.8	2683.9	2555.0	2433.7	2320.0	2221.4	2107.7	2001.6	1910.6	1812.0	1698.3
35°	3055.4	2865.9	2714.2	2562.6	2433.7	2312.4	2198.7	2077.4	1971.2	1872.7	1774.1
32.5°	3328.3	3093.3	2888.6	2714.2	2555.0	2411.0	2282.1	2160.8	2039.5	1925.7	1819.6
30°	3661.9	3358.7	3093.3	2865.9	2683.9	2517.1	2365.5	2236.6	2107.7	1986.4	1872.7
27.5°	4132.0	3661.9	3328.3	3055.4	2812.8	2623.3	2456.5	2312.4	2175.9	2039.5	1918.2
25°	4753.7	4078.9	3586.1	3245.0	2972.0	2737.0	2547.4	2380.6	2236.6	2100.1	1963.6
22.5°	5458.8	4586.9	3934.9	3464.8	3123.6	2850.7	2638.4	2456.5	2297.2	2153.2	2009.1
20°	6603.6	5185.9	4298.8	3699.8	3290.4	2979.6	2729.4	2524.7	2350.3	2198.7	2047.0
17.5°	7862.2	5981.9	4768.9	3988.0	3464.8	3093.3	2812.8	2592.9	2395.8	2244.2	2085.0
15°	9704.5	6853.8	5223.8	4245.7	3616.5	3207.0	2896.2	2653.6	2448.9	2282.1	2122.9
12.5°	11327.0	7786.4	5769.6	4571.7	3821.2	3328.3	2979.6	2706.7	2494.4	2312.4	2153.2
10°	13874.4	9029.8	6361.0	4875.0	3988.0	3426.9	3047.8	2759.7	2524.7	2342.7	2175.9
7.5°	15921.5	10023.0	6823.5	5117.6	4124.4	3510.3	3100.9	2797.6	2555.0	2357.9	2198.7
5°	17415.1	10743.2	7164.7	5292.0	4223.0	3563.4	3138.8	2820.4	2577.8	2373.1	2213.8
2.5°	18324.9	11327.0	7437.6	5428.5	4298.8	3608.9	3169.1	2843.1	2592.9	2388.2	2221.4
0°	18628.1	11327.0	7437.6	5428.5	4298.8	3608.9	3169.1	2843.1	2592.9	2388.2	2221.4



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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°	45.5	45.5	37.9	37.9	37.9	30.3	30.3	22.7	22.7	15.2	15.2
85°	98.6	91.0	83.4	75.8	68.2	60.7	60.7	53.1	45.5	37.9	30.3
82.5°	159.2	151.6	136.5	121.3	113.7	98.6	83.4	75.8	68.2	53.1	45.5
80°	219.9	204.7	189.5	174.4	159.2	136.5	121.3	106.1	83.4	68.2	60.7
77.5°	288.1	265.4	242.6	219.9	197.1	182.0	159.2	136.5	113.7	91.0	68.2
75°	356.3	326.0	303.3	272.9	250.2	219.9	189.5	166.8	144.1	113.7	83.4
72.5°	432.2	394.2	363.9	326.0	295.7	265.4	227.4	197.1	166.8	136.5	106.1
70°	515.6	470.1	424.6	386.7	348.8	303.3	265.4	227.4	189.5	159.2	121.3
67.5°	599.0	545.9	492.8	439.7	394.2	348.8	303.3	265.4	219.9	182.0	136.5
65°	682.3	621.7	568.6	508.0	447.3	394.2	348.8	295.7	250.2	197.1	159.2
62.5°	773.3	705.1	636.9	568.6	508.0	439.7	386.7	326.0	272.9	219.9	174.4
60°	871.9	796.1	712.7	636.9	568.6	492.8	424.6	363.9	303.3	242.6	189.5
57.5°	962.9	879.5	796.1	705.1	621.7	545.9	470.1	394.2	326.0	265.4	204.7
55°	1053.9	962.9	871.9	773.3	682.3	599.0	515.6	432.2	356.3	288.1	219.9
52.5°	1137.2	1046.3	947.7	849.1	750.6	652.0	553.5	462.5	386.7	303.3	235.0
50°	1220.6	1122.1	1015.9	917.4	803.7	697.5	599.0	500.4	409.4	326.0	250.2
47.5°	1304.0	1197.9	1091.8	978.0	864.3	750.6	644.4	538.3	439.7	348.8	265.4
45°	1372.3	1266.1	1152.4	1038.7	925.0	803.7	682.3	568.6	462.5	371.5	280.5
42.5°	1440.5	1334.4	1220.6	1106.9	978.0	849.1	727.8	606.5	492.8	386.7	295.7
40°	1508.8	1395.0	1281.3	1160.0	1031.1	902.2	765.7	636.9	515.6	409.4	310.8
37.5°	1577.0	1455.7	1334.4	1213.1	1076.6	947.7	803.7	667.2	545.9	424.6	326.0
35°	1645.2	1516.3	1387.4	1258.6	1122.1	985.6	841.6	697.5	568.6	447.3	341.2
32.5°	1705.9	1569.4	1440.5	1311.6	1167.6	1023.5	879.5	727.8	591.4	462.5	348.8
30°	1758.9	1622.5	1486.0	1349.5	1213.1	1061.4	909.8	758.2	614.1	477.6	363.9
27.5°	1804.4	1668.0	1531.5	1387.4	1251.0	1099.3	940.1	788.5	636.9	500.4	371.5
25°	1849.9	1713.5	1569.4	1425.4	1281.3	1129.7	970.5	811.2	652.0	515.6	386.7
22.5°	1880.3	1758.9	1607.3	1455.7	1311.6	1152.4	993.2	834.0	674.8	523.1	394.2
20°	1918.2	1789.3	1645.2	1486.0	1342.0	1182.7	1015.9	856.7	689.9	538.3	401.8
17.5°	1948.5	1819.6	1675.5	1516.3	1364.7	1205.5	1038.7	871.9	705.1	545.9	409.4
15°	1978.8	1842.3	1698.3	1539.1	1379.9	1228.2	1053.9	887.1	712.7	561.0	417.0
12.5°	2001.6	1865.1	1721.0	1561.8	1402.6	1243.4	1069.0	902.2	727.8	568.6	417.0
10°	2016.7	1880.3	1743.8	1577.0	1417.8	1258.6	1084.2	909.8	735.4	568.6	424.6
7.5°	2031.9	1895.4	1758.9	1592.1	1425.4	1266.1	1091.8	925.0	743.0	576.2	432.2
5°	2047.0	1903.0	1766.5	1599.7	1432.9	1281.3	1106.9	932.5	750.6	583.8	432.2
2.5°	2054.6	1910.6	1774.1	1607.3	1440.5	1281.3	1106.9	932.5	750.6	583.8	432.2
0°	2054.6	1910.6	1774.1	1607.3	1440.5	1281.3	1106.9	932.5	750.6	583.8	432.2



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.6	7.6	0.0	0.0
85°	22.7	15.2	7.6	0.0
82.5°	30.3	22.7	7.6	0.0
80°	45.5	30.3	15.2	0.0
77.5°	53.1	37.9	15.2	0.0
75°	68.2	45.5	22.7	0.0
72.5°	75.8	53.1	22.7	0.0
70°	83.4	60.7	30.3	0.0
67.5°	98.6	60.7	30.3	0.0
65°	113.7	68.2	37.9	0.0
62.5°	121.3	75.8	37.9	0.0
60°	136.5	83.4	37.9	0.0
57.5°	151.6	91.0	45.5	0.0
55°	159.2	98.6	45.5	0.0
52.5°	174.4	106.1	53.1	0.0
50°	182.0	113.7	53.1	0.0
47.5°	189.5	121.3	53.1	0.0
45°	204.7	128.9	60.7	0.0
42.5°	212.3	136.5	60.7	0.0
40°	219.9	136.5	60.7	0.0
37.5°	235.0	144.1	68.2	0.0
35°	242.6	151.6	68.2	0.0
32.5°	250.2	159.2	68.2	0.0
30°	257.8	159.2	75.8	0.0
27.5°	265.4	166.8	75.8	0.0
25°	272.9	166.8	75.8	0.0
22.5°	280.5	174.4	75.8	0.0
20°	280.5	174.4	75.8	0.0
17.5°	288.1	182.0	75.8	0.0
15°	288.1	182.0	83.4	0.0
12.5°	295.7	182.0	83.4	0.0
10°	295.7	189.5	83.4	0.0
7.5°	303.3	189.5	83.4	0.0
5°	303.3	189.5	83.4	0.0
2.5°	303.3	189.5	83.4	0.0
0°	303.3	189.5	83.4	0.0

(END OF REPORT)