

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: P624146

Luminaire Tested: **EPH-VN-06-E-750-U-55**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624146
Test Lab: INNOVATION CENTER(G2)
Issue Date: 11/2/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-06-E-750-U-55
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 5 distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

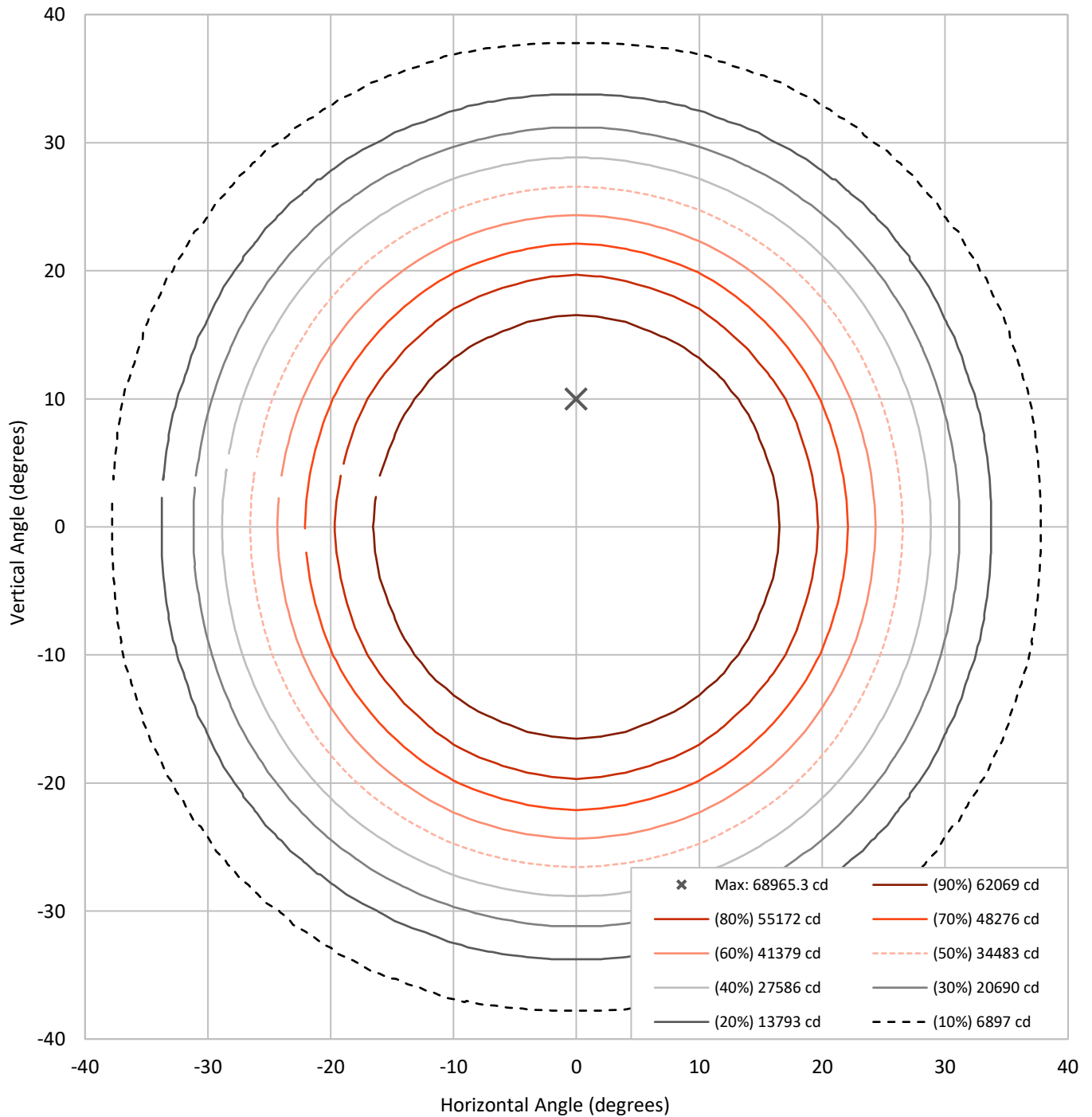
Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	56434.5 lumens	Max Intensity:	68965.3 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	121.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	28049.4 lumens	Field Lumens:	36479 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

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





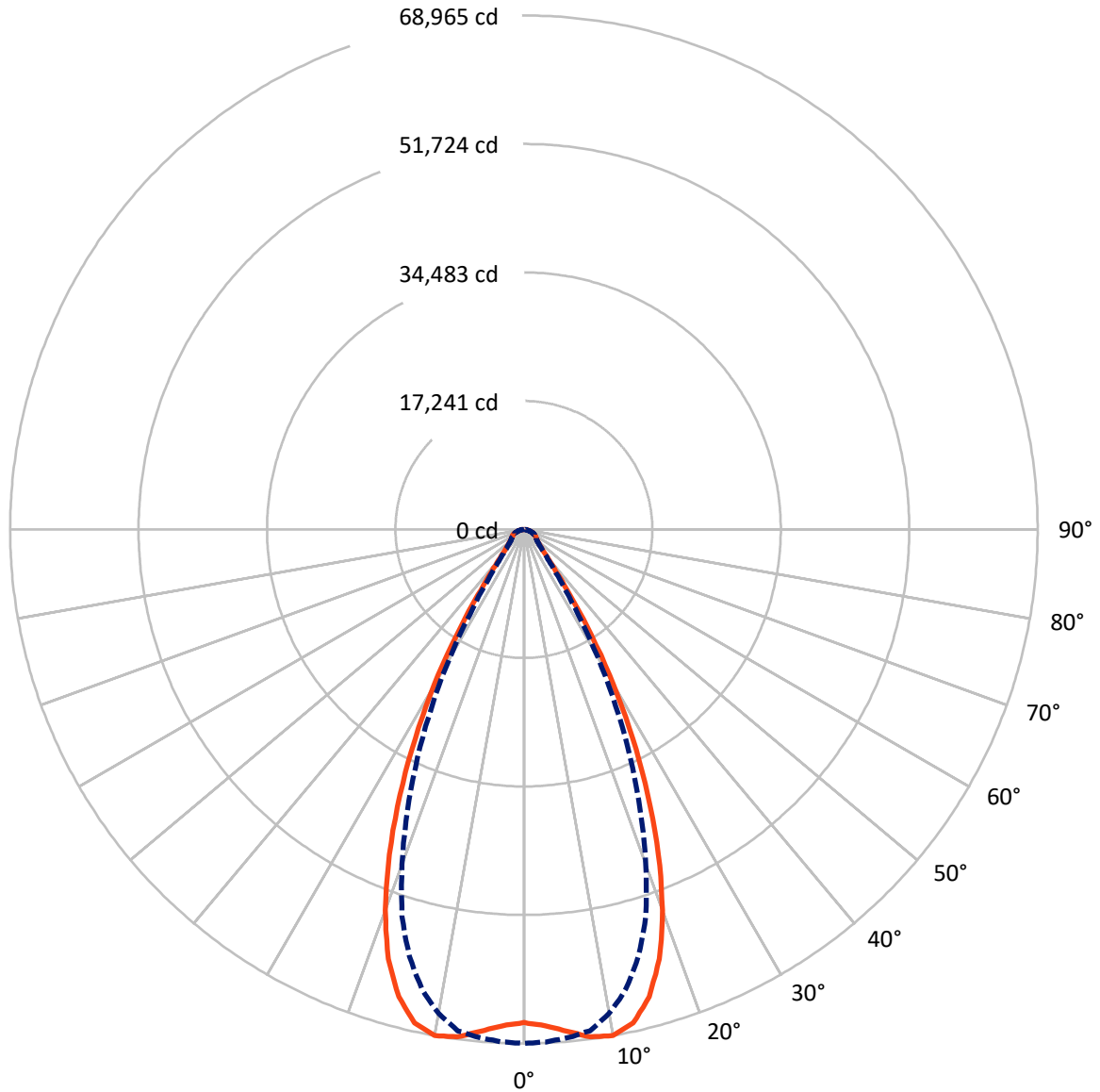
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Lumen Table

90	1.6	12.4	32.3	52.1	60.3	52.1	32.3	12.4	1.6										
80																			
70																			
60	5.7	6.1	12.8	21.1	29.6	37.0	42.4	45.2	45.2	42.4	37.0	29.6	21.1	12.8	6.1				5.7
50		9.5	19.5	31.0	41.6	50.5	57.4	61.2	61.2	57.4	50.5	41.6	31.0	19.5	9.5				
40	10.0	12.7	25.2	38.1	51.1	66.1	83.7	97.2	97.2	83.7	66.1	51.1	38.1	25.2	12.7				10.0
30		15.5	29.2	44.2	66.9	119.2	233.0	351.4	351.4	233.0	119.2	66.9	44.2	29.2	15.5				
20	13.3	17.5	32.1	51.8	108.2	344.8	799.0	1134.0	1134.0	799.0	344.8	108.2	51.8	32.1	17.5				13.3
10		18.7	34.2	61.7	199.7	752.6	1472.4	1877.1	1877.1	1472.4	752.6	199.7	61.7	34.2	18.7				
0	14.6	19.4	35.4	69.7	293.1	1036.7	1821.6	2065.8	2065.8	1821.6	1036.7	293.1	69.7	35.4	19.4				14.6
-10		19.4	35.4	69.7	293.1	1036.7	1821.6	2065.8	2065.8	1821.6	1036.7	293.1	69.7	35.4	19.4				
-20	13.3	18.7	34.2	61.7	199.7	752.6	1472.4	1877.1	1877.1	1472.4	752.6	199.7	61.7	34.2	18.7				13.3
-30		17.5	32.1	51.8	108.2	344.8	799.0	1134.0	1134.0	799.0	344.8	108.2	51.8	32.1	17.5				
-40	10.0	15.5	29.2	44.2	66.9	119.2	233.0	351.4	351.4	233.0	119.2	66.9	44.2	29.2	15.5				10.0
-50		12.7	25.2	38.1	51.1	66.1	83.7	97.2	97.2	83.7	66.1	51.1	38.1	25.2	12.7				
-60	5.7	9.5	19.5	31.0	41.6	50.5	57.4	61.2	61.2	57.4	50.5	41.6	31.0	19.5	9.5				5.7
-70		6.1	12.8	21.1	29.6	37.0	42.4	45.2	45.2	42.4	37.0	29.6	21.1	12.8	6.1				
-80	1.6	12.4	32.3	52.1	60.3	52.1	32.3	12.4	1.6										
-90																			

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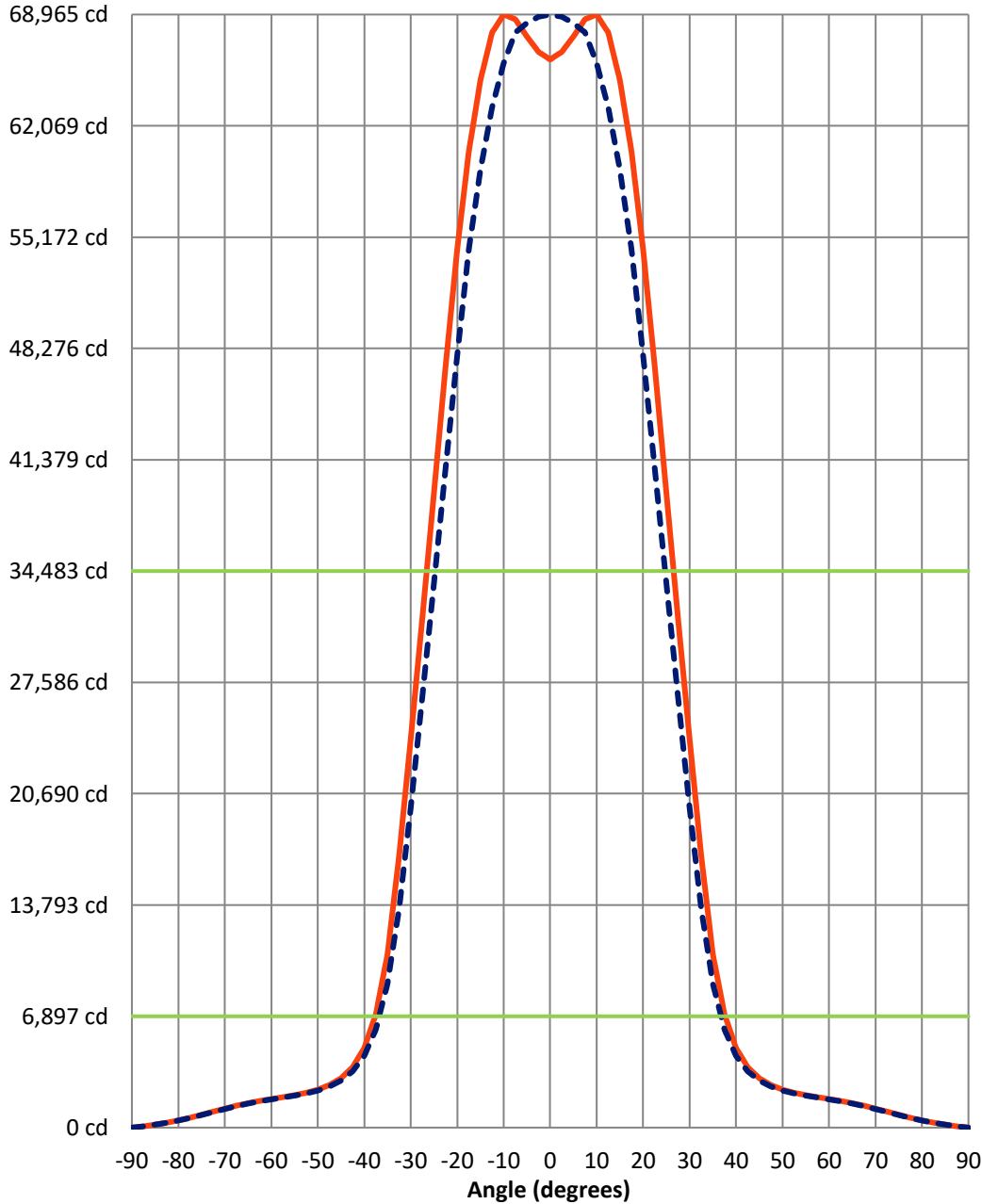
Luminous Intensity Polar Plot



— 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: 28049.4
 Efficiency: 49.7%

Field:
 H Angle: 73.6°
 V Angle: 75.3°
 Lumens: 36479
 Efficiency: 64.6%

Spill:
 Lumens: 19955.5
 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°	76.2	76.2	76.2	76.2	76.2	76.2	76.2	70.3	70.3	70.3	70.3
85°	187.6	187.6	187.6	187.6	187.6	181.7	181.7	175.9	175.9	170.0	164.1
82.5°	304.8	304.8	304.8	304.8	299.0	299.0	293.1	287.3	281.4	275.5	269.7
80°	445.5	445.5	445.5	445.5	439.7	433.8	428.0	422.1	410.4	404.5	392.8
77.5°	609.7	609.7	609.7	603.8	598.0	592.1	580.4	568.7	556.9	545.2	533.5
75°	797.3	797.3	797.3	785.6	779.7	768.0	756.3	744.5	726.9	709.4	691.8
72.5°	990.7	990.7	990.7	979.0	967.3	955.6	943.8	926.3	908.7	885.2	861.8
70°	1172.5	1172.5	1172.5	1160.8	1149.0	1137.3	1119.7	1102.1	1078.7	1055.2	1031.8
67.5°	1360.1	1360.1	1360.1	1342.5	1330.8	1319.0	1301.5	1278.0	1254.6	1225.2	1195.9
65°	1512.5	1512.5	1506.6	1500.8	1489.1	1471.5	1459.7	1436.3	1412.8	1389.4	1360.1
62.5°	1653.2	1653.2	1647.3	1641.5	1629.7	1612.2	1594.6	1577.0	1553.5	1524.2	1494.9
60°	1770.4	1770.4	1764.6	1758.7	1747.0	1735.3	1717.7	1700.1	1676.6	1653.2	1623.9
57.5°	1887.7	1887.7	1881.8	1876.0	1864.2	1846.7	1829.1	1811.5	1788.0	1758.7	1729.4
55°	2010.8	2010.8	2004.9	1993.2	1981.5	1963.9	1946.3	1922.9	1893.6	1864.2	1834.9
52.5°	2157.4	2157.4	2145.6	2133.9	2116.3	2098.7	2069.4	2040.1	2004.9	1969.8	1934.6
50°	2350.8	2350.8	2339.1	2321.5	2292.2	2262.9	2227.7	2180.8	2139.8	2092.9	2046.0
47.5°	2638.1	2638.1	2614.6	2585.3	2544.3	2497.4	2432.9	2362.5	2303.9	2245.3	2175.0
45°	3060.2	3060.2	3025.0	2978.1	2913.6	2831.5	2737.7	2638.1	2538.4	2438.8	2339.1
42.5°	3746.1	3746.1	3681.6	3599.5	3488.1	3347.4	3171.6	3007.4	2866.7	2708.4	2573.6
40°	4930.3	4930.3	4807.2	4654.7	4443.7	4174.0	3851.6	3593.7	3347.4	3071.9	2884.3
37.5°	7034.9	7034.9	6794.5	6501.4	6091.0	5575.1	4953.7	4537.5	4080.2	3646.4	3329.8
35°	10751.7	10751.7	10288.5	9719.9	8928.4	7931.8	6870.7	6085.2	5211.7	4543.4	3951.3
32.5°	16848.6	16848.6	16016.1	14990.2	13577.3	11789.3	10089.2	8594.3	7034.9	5926.9	4859.9
30°	24094.5	24094.5	23004.1	21661.6	19820.8	17499.3	15078.1	12422.4	9960.2	7984.6	6372.4
27.5°	31586.6	31275.9	30337.9	28807.9	26709.1	24094.5	21075.3	17645.8	14316.0	10833.7	8529.8
25°	39336.7	38973.3	37900.4	36141.7	33738.1	30777.6	27377.4	23543.4	19433.9	15283.3	11296.9
22.5°	47168.9	46758.5	45539.2	43551.8	40855.1	37537.0	33685.4	29423.4	24833.1	20037.7	15283.3
20°	54409.0	53975.2	52697.2	50627.7	47837.2	44196.7	39917.1	35192.0	30115.2	24833.1	19433.9
17.5°	60470.7	60054.5	58823.4	56847.7	54409.0	50381.5	45931.9	40737.9	35192.0	29423.4	23543.4
15°	64896.8	64539.2	63489.8	61830.8	59345.1	55780.8	51249.1	45931.9	39917.1	33685.4	27377.4
12.5°	67833.9	67546.6	66720.0	65430.3	63202.6	60212.8	55780.8	50381.5	44196.7	37537.0	30777.6
10°	68965.3	68824.6	68437.7	67845.6	65946.2	63202.6	59345.1	54409.0	47837.2	40855.1	33738.1
7.5°	68666.3	68713.2	68848.1	68695.7	67845.6	65430.3	61830.8	56847.7	50627.7	43551.8	36141.7
5°	67599.4	67851.5	68478.8	68848.1	68437.7	66720.0	63489.8	58823.4	52697.2	45539.2	37900.4
2.5°	66649.7	67042.5	67851.5	68713.2	68824.6	67546.6	64539.2	60054.5	53975.2	46758.5	38973.3
0°	66180.7	66649.7	67599.4	68666.3	68965.3	67833.9	64896.8	60470.7	54409.0	47168.9	39336.7



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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°	70.3	64.5	64.5	64.5	58.6	58.6	58.6	52.8	52.8	46.9	46.9
85°	164.1	158.3	152.4	146.6	140.7	134.8	129.0	123.1	117.2	105.5	99.7
82.5°	263.8	257.9	252.1	240.4	234.5	222.8	211.0	199.3	187.6	181.7	170.0
80°	381.1	369.3	357.6	345.9	328.3	310.7	299.0	281.4	269.7	252.1	240.4
77.5°	515.9	498.3	480.7	457.3	439.7	422.1	398.6	381.1	357.6	334.2	310.7
75°	668.3	644.9	615.6	592.1	568.7	539.3	510.0	480.7	451.4	422.1	392.8
72.5°	832.5	803.1	773.8	744.5	709.4	668.3	633.1	592.1	556.9	521.8	480.7
70°	1002.5	967.3	932.1	896.9	855.9	809.0	768.0	721.1	674.2	627.3	580.4
67.5°	1160.8	1125.6	1084.5	1049.4	1002.5	955.6	902.8	850.0	797.3	738.7	680.0
65°	1324.9	1283.9	1237.0	1190.1	1143.2	1090.4	1037.6	984.9	920.4	855.9	797.3
62.5°	1459.7	1424.6	1383.5	1336.6	1283.9	1225.2	1172.5	1102.1	1037.6	973.2	896.9
60°	1588.7	1547.7	1512.5	1459.7	1412.8	1360.1	1295.6	1225.2	1154.9	1078.7	1008.3
57.5°	1700.1	1664.9	1623.9	1577.0	1524.2	1471.5	1412.8	1348.4	1266.3	1190.1	1108.0
55°	1799.8	1758.7	1717.7	1676.6	1629.7	1571.1	1512.5	1448.0	1377.7	1295.6	1207.7
52.5°	1899.4	1858.4	1811.5	1770.4	1717.7	1664.9	1606.3	1541.8	1471.5	1395.3	1301.5
50°	1999.1	1952.2	1905.3	1852.5	1799.8	1747.0	1688.4	1629.7	1553.5	1477.3	1395.3
47.5°	2116.3	2057.7	1999.1	1940.5	1887.7	1823.2	1764.6	1700.1	1635.6	1553.5	1471.5
45°	2262.9	2175.0	2104.6	2034.3	1969.8	1905.3	1834.9	1770.4	1700.1	1629.7	1541.8
42.5°	2444.6	2327.4	2233.6	2139.8	2057.7	1981.5	1911.1	1834.9	1764.6	1688.4	1606.3
40°	2690.8	2532.6	2380.1	2262.9	2157.4	2063.6	1981.5	1905.3	1823.2	1747.0	1664.9
37.5°	3013.3	2790.5	2579.5	2409.4	2274.6	2157.4	2057.7	1969.8	1887.7	1799.8	1717.7
35°	3499.9	3112.9	2843.3	2597.0	2409.4	2262.9	2139.8	2034.3	1940.5	1852.5	1770.4
32.5°	4185.8	3587.8	3154.0	2843.3	2579.5	2380.1	2233.6	2104.6	1999.1	1905.3	1811.5
30°	5088.6	4262.0	3587.8	3112.9	2790.5	2532.6	2327.4	2175.0	2057.7	1952.2	1858.4
27.5°	6519.0	5088.6	4185.8	3499.9	3013.3	2690.8	2444.6	2262.9	2116.3	1999.1	1899.4
25°	8529.8	6372.4	4859.9	3951.3	3329.8	2884.3	2573.6	2339.1	2175.0	2046.0	1934.6
22.5°	10833.7	7984.6	5926.9	4543.4	3646.4	3071.9	2708.4	2438.8	2245.3	2092.9	1969.8
20°	14316.0	9960.2	7034.9	5211.7	4080.2	3347.4	2866.7	2538.4	2303.9	2139.8	2004.9
17.5°	17645.8	12422.4	8594.3	6085.2	4537.5	3593.7	3007.4	2638.1	2362.5	2180.8	2040.1
15°	21075.3	15078.1	10089.2	6870.7	4953.7	3851.6	3171.6	2737.7	2432.9	2227.7	2069.4
12.5°	24094.5	17499.3	11789.3	7931.8	5575.1	4174.0	3347.4	2831.5	2497.4	2262.9	2098.7
10°	26709.1	19820.8	13577.3	8928.4	6091.0	4443.7	3488.1	2913.6	2544.3	2292.2	2116.3
7.5°	28807.9	21661.6	14990.2	9719.9	6501.4	4654.7	3599.5	2978.1	2585.3	2321.5	2133.9
5°	30337.9	23004.1	16016.1	10288.5	6794.5	4807.2	3681.6	3025.0	2614.6	2339.1	2145.6
2.5°	31275.9	24094.5	16848.6	10751.7	7034.9	4930.3	3746.1	3060.2	2638.1	2350.8	2157.4
0°	31586.6	24094.5	16848.6	10751.7	7034.9	4930.3	3746.1	3060.2	2638.1	2350.8	2157.4



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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°	41.0	41.0	35.2	35.2	29.3	29.3	23.4	23.4	17.6	17.6	11.7
85°	93.8	82.1	76.2	70.3	64.5	58.6	52.8	46.9	41.0	35.2	29.3
82.5°	158.3	146.6	129.0	117.2	105.5	93.8	76.2	70.3	58.6	46.9	41.0
80°	222.8	205.2	187.6	170.0	152.4	134.8	117.2	99.7	82.1	64.5	52.8
77.5°	287.3	263.8	246.2	222.8	199.3	175.9	152.4	129.0	105.5	82.1	64.5
75°	363.5	334.2	304.8	275.5	246.2	216.9	193.5	164.1	134.8	105.5	82.1
72.5°	445.5	404.5	369.3	334.2	293.1	263.8	228.6	199.3	164.1	129.0	99.7
70°	533.5	486.6	439.7	392.8	351.7	304.8	269.7	228.6	193.5	152.4	117.2
67.5°	621.4	568.7	515.9	457.3	404.5	357.6	304.8	263.8	216.9	175.9	134.8
65°	726.9	656.6	592.1	527.6	463.1	404.5	351.7	293.1	246.2	199.3	152.4
62.5°	826.6	750.4	674.2	598.0	527.6	457.3	392.8	334.2	275.5	222.8	170.0
60°	926.3	844.2	756.3	674.2	592.1	515.9	439.7	369.3	304.8	246.2	187.6
57.5°	1025.9	932.1	844.2	750.4	656.6	568.7	486.6	404.5	334.2	263.8	205.2
55°	1113.9	1025.9	926.3	826.6	726.9	621.4	533.5	445.5	363.5	287.3	222.8
52.5°	1207.7	1108.0	1008.3	896.9	797.3	680.0	580.4	480.7	392.8	310.7	240.4
50°	1295.6	1190.1	1078.7	973.2	855.9	738.7	627.3	521.8	422.1	334.2	252.1
47.5°	1377.7	1266.3	1154.9	1037.6	920.4	797.3	674.2	556.9	451.4	357.6	269.7
45°	1448.0	1348.4	1225.2	1102.1	984.9	850.0	721.1	592.1	480.7	381.1	281.4
42.5°	1512.5	1412.8	1295.6	1172.5	1037.6	902.8	768.0	633.1	510.0	398.6	299.0
40°	1571.1	1471.5	1360.1	1225.2	1090.4	955.6	809.0	668.3	539.3	422.1	310.7
37.5°	1629.7	1524.2	1412.8	1283.9	1143.2	1002.5	855.9	709.4	568.7	439.7	328.3
35°	1676.6	1577.0	1459.7	1336.6	1190.1	1049.4	896.9	744.5	592.1	457.3	345.9
32.5°	1717.7	1623.9	1512.5	1383.5	1237.0	1084.5	932.1	773.8	615.6	480.7	357.6
30°	1758.7	1664.9	1547.7	1424.6	1283.9	1125.6	967.3	803.1	644.9	498.3	369.3
27.5°	1799.8	1700.1	1588.7	1459.7	1324.9	1160.8	1002.5	832.5	668.3	515.9	381.1
25°	1834.9	1729.4	1623.9	1494.9	1360.1	1195.9	1031.8	861.8	691.8	533.5	392.8
22.5°	1864.2	1758.7	1653.2	1524.2	1389.4	1225.2	1055.2	885.2	709.4	545.2	404.5
20°	1893.6	1788.0	1676.6	1553.5	1412.8	1254.6	1078.7	908.7	726.9	556.9	410.4
17.5°	1922.9	1811.5	1700.1	1577.0	1436.3	1278.0	1102.1	926.3	744.5	568.7	422.1
15°	1946.3	1829.1	1717.7	1594.6	1459.7	1301.5	1119.7	943.8	756.3	580.4	428.0
12.5°	1963.9	1846.7	1735.3	1612.2	1471.5	1319.0	1137.3	955.6	768.0	592.1	433.8
10°	1981.5	1864.2	1747.0	1629.7	1489.1	1330.8	1149.0	967.3	779.7	598.0	439.7
7.5°	1993.2	1876.0	1758.7	1641.5	1500.8	1342.5	1160.8	979.0	785.6	603.8	445.5
5°	2004.9	1881.8	1764.6	1647.3	1506.6	1360.1	1172.5	990.7	797.3	609.7	445.5
2.5°	2010.8	1887.7	1770.4	1653.2	1512.5	1360.1	1172.5	990.7	797.3	609.7	445.5
0°	2010.8	1887.7	1770.4	1653.2	1512.5	1360.1	1172.5	990.7	797.3	609.7	445.5



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	11.7	5.9	5.9	0.0
85°	17.6	11.7	5.9	0.0
82.5°	29.3	17.6	11.7	0.0
80°	41.0	29.3	11.7	0.0
77.5°	46.9	35.2	17.6	0.0
75°	58.6	41.0	17.6	0.0
72.5°	70.3	46.9	23.4	0.0
70°	76.2	52.8	23.4	0.0
67.5°	93.8	58.6	29.3	0.0
65°	105.5	64.5	29.3	0.0
62.5°	117.2	70.3	35.2	0.0
60°	129.0	76.2	35.2	0.0
57.5°	146.6	82.1	41.0	0.0
55°	158.3	93.8	41.0	0.0
52.5°	170.0	99.7	46.9	0.0
50°	181.7	105.5	46.9	0.0
47.5°	187.6	117.2	52.8	0.0
45°	199.3	123.1	52.8	0.0
42.5°	211.0	129.0	58.6	0.0
40°	222.8	134.8	58.6	0.0
37.5°	234.5	140.7	58.6	0.0
35°	240.4	146.6	64.5	0.0
32.5°	252.1	152.4	64.5	0.0
30°	257.9	158.3	64.5	0.0
27.5°	263.8	164.1	70.3	0.0
25°	269.7	164.1	70.3	0.0
22.5°	275.5	170.0	70.3	0.0
20°	281.4	175.9	70.3	0.0
17.5°	287.3	175.9	70.3	0.0
15°	293.1	181.7	76.2	0.0
12.5°	299.0	181.7	76.2	0.0
10°	299.0	187.6	76.2	0.0
7.5°	304.8	187.6	76.2	0.0
5°	304.8	187.6	76.2	0.0
2.5°	304.8	187.6	76.2	0.0
0°	304.8	187.6	76.2	0.0

(END OF REPORT)