

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: P623244

Luminaire Tested: **EPH-VN-06-E-750-U-33**

Issue Date: 10/13/2022

Test Information

Test Method: LM-79-2019
Report Number: P623244
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/13/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-06-E-750-U-33
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 3 distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	3H x 3V
Luminaire Lumens:	56317.6 lumens	Max Intensity:	524044.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	121.3 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

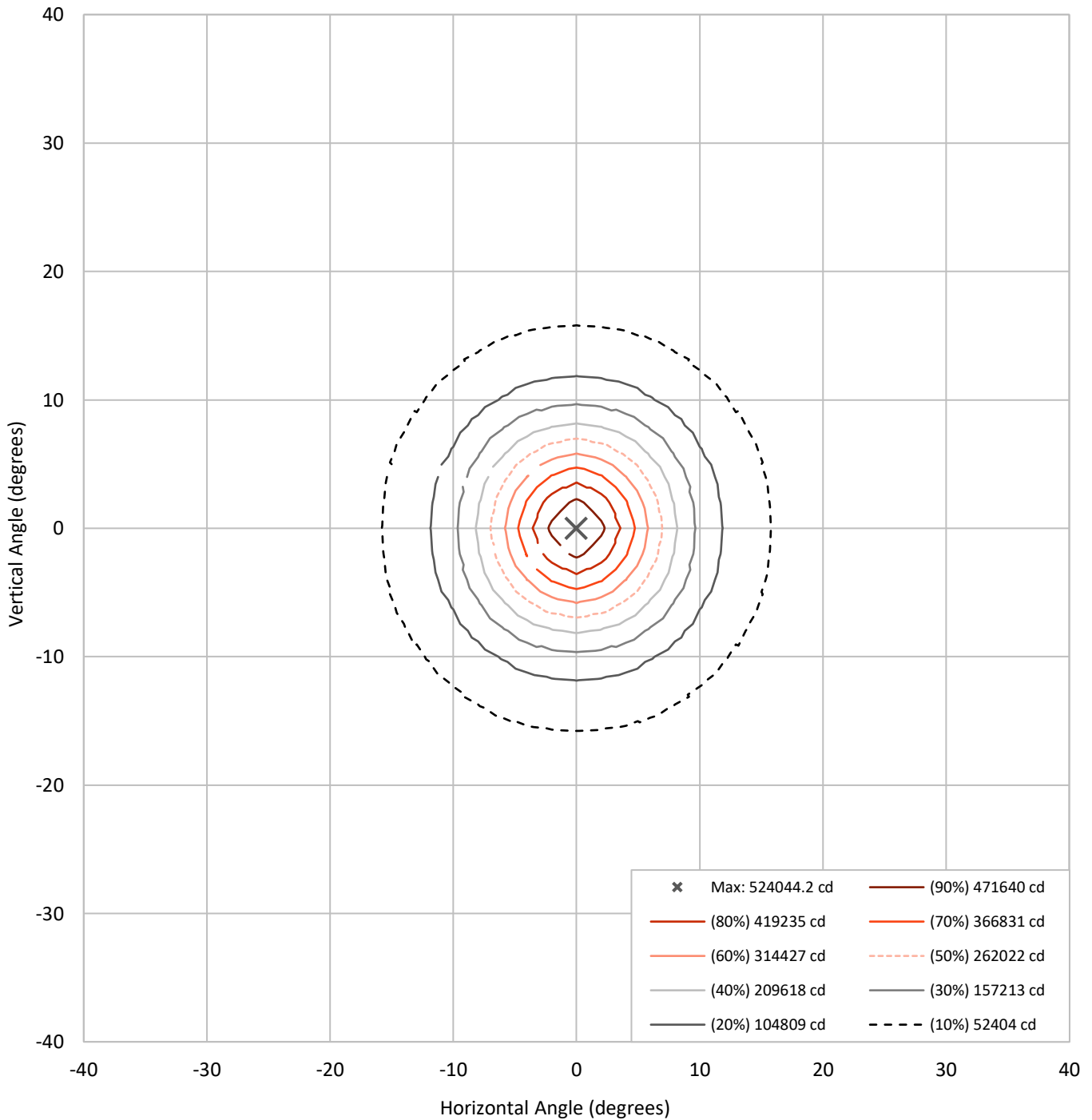
Beam Angle (50%):	13.8°H x 13.8°V	Field Angle (10%):	31.4°H x 31.4°V
Beam Lumens:	12315.1 lumens	Field Lumens:	28674.7 lumens
Beam Efficiency:	21.9%	Field Efficiency:	50.9%

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





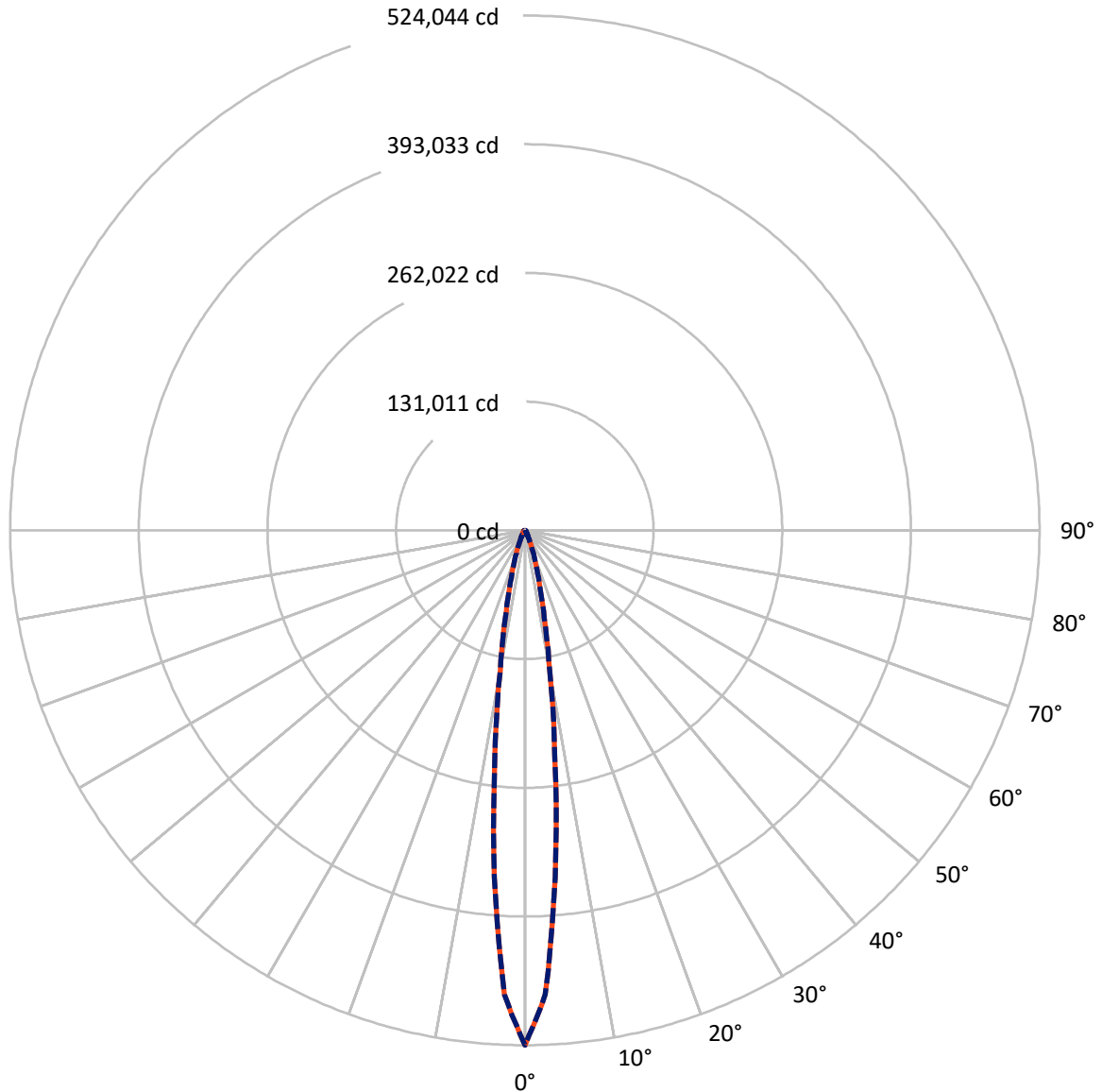
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Lumen Table

90	0.9	7.2	19.3	31.5	36.6	31.5	19.3	7.2	0.9										
80																			
70																			
60	3.3	3.7	7.8	13.0	18.4	23.2	26.8	28.7	28.7	26.8	23.2	18.4	13.0	7.8	3.7				3.3
50		5.8	12.1	19.5	26.9	33.5	38.6	41.3	41.3	38.6	33.5	26.9	19.5	12.1	5.8				
40	6.0	7.8	15.9	25.0	34.6	44.5	53.7	59.6	59.6	53.7	44.5	34.6	25.0	15.9	7.8				6.0
30		9.6	18.9	29.9	43.8	62.8	85.8	105.4	105.4	85.8	62.8	43.8	29.9	18.9	9.6				
20	8.1	11.0	21.3	34.8	56.8	100.3	204.8	350.4	350.4	204.8	100.3	56.8	34.8	21.3	11.0				8.1
10		11.9	23.0	39.5	73.1	193.1	694.4	1724.3	1724.3	694.4	193.1	73.1	39.5	23.0	11.9				
0	8.9	12.3	23.9	42.5	87.3	321.7	1680.1	7377.2	7377.2	1680.1	321.7	87.3	42.5	23.9	12.3				8.9
-10		12.3	23.9	42.5	87.3	321.7	1680.1	7377.2	7377.2	1680.1	321.7	87.3	42.5	23.9	12.3				
-20	8.1	11.9	23.0	39.5	73.1	193.1	694.4	1724.3	1724.3	694.4	193.1	73.1	39.5	23.0	11.9				8.1
-30		11.0	21.3	34.8	56.8	100.3	204.8	350.4	350.4	204.8	100.3	56.8	34.8	21.3	11.0				
-40	6.0	9.6	18.9	29.9	43.8	62.8	85.8	105.4	105.4	85.8	62.8	43.8	29.9	18.9	9.6				6.0
-50		7.8	15.9	25.0	34.6	44.5	53.7	59.6	59.6	53.7	44.5	34.6	25.0	15.9	7.8				
-60	3.3	5.8	12.1	19.5	26.9	33.5	38.6	41.3	41.3	38.6	33.5	26.9	19.5	12.1	5.8				3.3
-70		3.7	7.8	13.0	18.4	23.2	26.8	28.7	28.7	26.8	23.2	18.4	13.0	7.8	3.7				
-80	0.9	7.2	19.3	31.5	36.6	31.5	19.3	7.2	0.9										
-90																			

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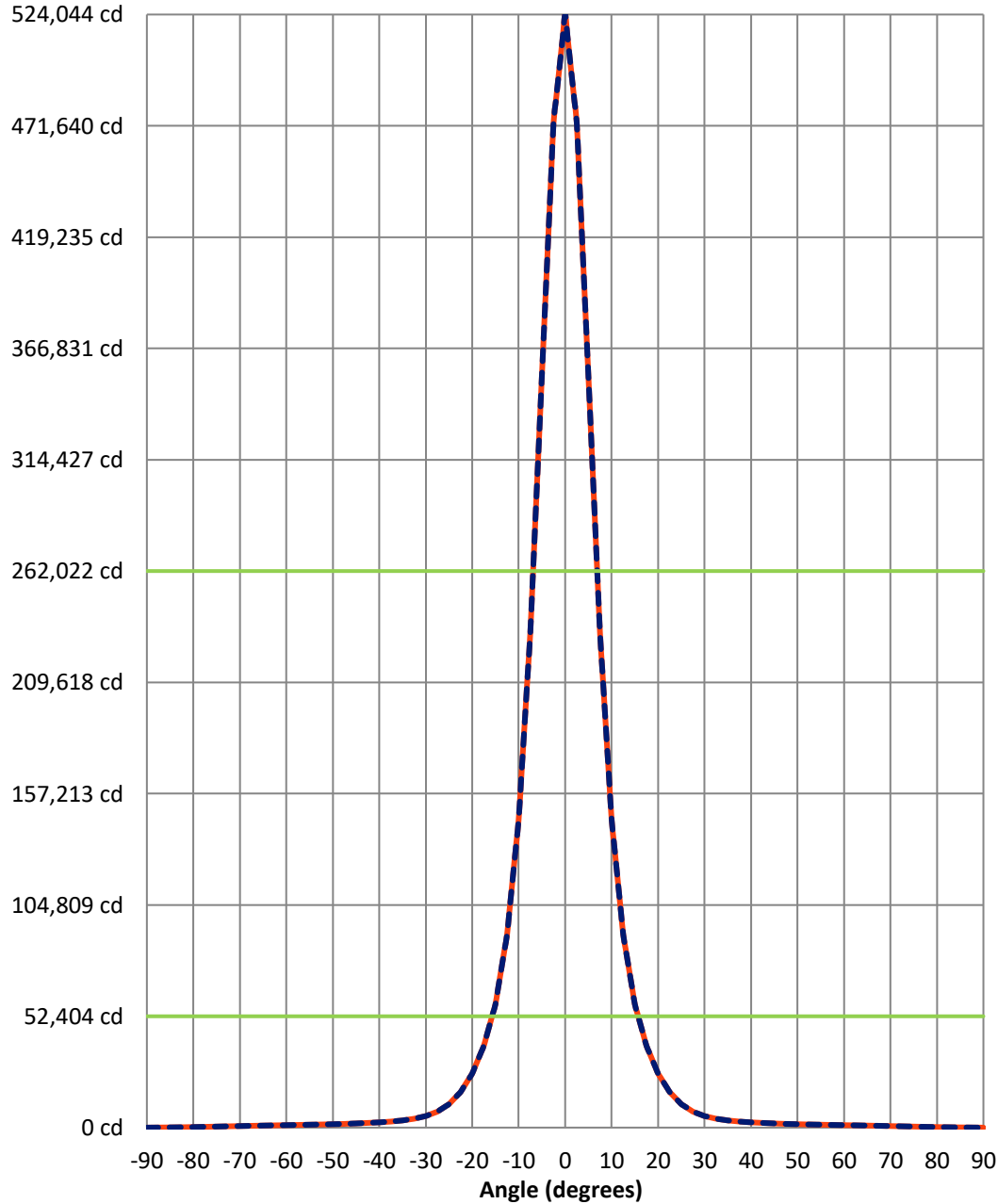
Luminous Intensity Polar Plot



— 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: 12315.1
Efficiency: 21.9%

Field:
H Angle: 31.4°
V Angle: 31.4°
Lumens: 28674.7
Efficiency: 50.9%

Spill:
Lumens: 27642.9
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°	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9	41.0	41.0
85°	105.5	105.5	105.5	105.5	105.5	105.5	99.6	99.6	99.6	93.7	93.7
82.5°	175.8	175.8	175.8	175.8	169.9	169.9	169.9	164.0	164.0	158.2	158.2
80°	269.5	269.5	269.5	269.5	263.7	257.8	257.8	251.9	246.1	240.2	234.4
77.5°	369.1	369.1	369.1	363.3	363.3	357.4	351.5	345.7	339.8	328.1	322.2
75°	486.3	486.3	486.3	480.4	474.6	468.7	462.9	451.1	445.3	433.6	421.8
72.5°	609.3	609.3	609.3	603.5	597.6	585.9	580.0	568.3	556.6	539.0	527.3
70°	726.5	726.5	726.5	720.6	708.9	703.1	691.4	679.6	667.9	650.3	632.8
67.5°	843.7	843.7	843.7	832.0	826.1	820.2	808.5	791.0	779.2	761.7	738.2
65°	955.0	955.0	949.1	943.3	937.4	925.7	914.0	902.3	884.7	867.1	843.7
62.5°	1066.3	1066.3	1060.5	1054.6	1048.7	1037.0	1019.5	1007.7	984.3	966.7	943.3
60°	1160.1	1160.1	1154.2	1148.3	1142.5	1130.8	1119.1	1101.5	1083.9	1066.3	1042.9
57.5°	1259.7	1259.7	1253.8	1247.9	1236.2	1224.5	1212.8	1195.2	1171.8	1148.3	1130.8
55°	1371.0	1371.0	1365.1	1353.4	1341.7	1330.0	1312.4	1289.0	1265.5	1242.1	1212.8
52.5°	1476.4	1476.4	1470.6	1458.9	1447.2	1435.4	1412.0	1394.4	1365.1	1335.8	1300.7
50°	1605.3	1605.3	1593.6	1581.9	1570.2	1546.8	1523.3	1494.0	1464.7	1429.6	1400.3
47.5°	1751.8	1751.8	1740.1	1728.4	1704.9	1681.5	1646.4	1611.2	1576.0	1535.0	1488.2
45°	1956.9	1956.9	1939.3	1915.9	1886.6	1845.6	1798.7	1751.8	1699.1	1652.2	1599.5
42.5°	2208.8	2208.8	2185.4	2156.1	2115.1	2062.3	1997.9	1933.4	1863.1	1787.0	1716.7
40°	2472.5	2472.5	2443.2	2413.9	2367.0	2302.6	2232.2	2150.2	2062.3	1962.7	1874.9
37.5°	2835.7	2835.7	2794.7	2742.0	2671.7	2583.8	2478.3	2384.6	2285.0	2173.7	2056.5
35°	3374.7	3374.7	3310.3	3222.4	3111.1	2964.6	2806.4	2671.7	2519.3	2384.6	2255.7
32.5°	4171.5	4171.5	4060.2	3931.3	3743.8	3509.5	3281.0	3064.2	2835.7	2642.4	2454.9
30°	5425.3	5425.3	5237.9	5003.5	4687.1	4282.9	3943.0	3591.5	3257.6	2976.3	2718.5
27.5°	7511.1	7423.2	7165.4	6737.7	6151.9	5425.3	4903.9	4312.2	3843.4	3386.4	3052.5
25°	11026.5	10862.4	10376.1	9573.5	8489.6	7288.5	6339.3	5331.6	4616.8	3966.5	3445.0
22.5°	16738.9	16440.1	15549.5	14096.5	12133.8	10212.1	8460.3	6907.7	5630.4	4722.3	3966.5
20°	25433.5	24912.1	23377.0	20892.9	17541.6	14571.1	11448.3	9145.8	7101.0	5630.4	4616.8
17.5°	38498.9	37596.6	34954.2	30694.8	25433.5	20594.1	15836.6	12045.9	9145.8	6907.7	5331.6
15°	58044.2	56462.3	51845.5	44504.3	36073.3	28398.1	21642.8	15836.6	11448.3	8460.3	6339.3
12.5°	90859.9	87661.0	78415.6	63996.9	50556.5	37942.3	28398.1	20594.1	14571.1	10212.1	7288.5
10°	145078.3	138469.4	119726.8	91358.0	69779.6	50556.5	36073.3	25433.5	17541.6	12133.8	8489.6
7.5°	232961.9	218777.5	180020.8	132253.1	91358.0	63996.9	44504.3	30694.8	20892.9	14096.5	9573.5
5°	354176.9	325632.3	253977.8	180020.8	119726.8	78415.6	51845.5	34954.2	23377.0	15549.5	10376.1
2.5°	473018.9	423821.7	325632.3	218777.5	138469.4	87661.0	56462.3	37596.6	24912.1	16440.1	10862.4
0°	524044.2	473018.9	354176.9	232961.9	145078.3	90859.9	58044.2	38498.9	25433.5	16738.9	11026.5



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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°	41.0	41.0	41.0	41.0	35.2	35.2	35.2	35.2	29.3	29.3	29.3
85°	93.7	87.9	87.9	82.0	82.0	76.2	76.2	70.3	70.3	64.4	58.6
82.5°	152.3	146.5	140.6	134.8	134.8	128.9	123.0	111.3	105.5	99.6	93.7
80°	228.5	216.8	210.9	199.2	193.3	181.6	169.9	164.0	152.3	146.5	134.8
77.5°	310.5	298.8	292.9	275.4	263.7	251.9	240.2	222.6	210.9	193.3	175.8
75°	404.3	392.5	375.0	357.4	345.7	328.1	310.5	292.9	269.5	251.9	234.4
72.5°	509.7	492.1	474.6	451.1	427.7	410.1	380.8	357.4	339.8	316.4	292.9
70°	615.2	597.6	574.2	550.7	521.4	498.0	468.7	439.4	410.1	380.8	351.5
67.5°	720.6	697.2	673.8	644.5	615.2	585.9	556.6	521.4	486.3	451.1	416.0
65°	820.2	796.8	767.5	738.2	708.9	673.8	638.6	603.5	562.5	521.4	486.3
62.5°	919.8	890.6	861.3	832.0	796.8	761.7	726.5	679.6	638.6	597.6	550.7
60°	1013.6	984.3	955.0	919.8	884.7	843.7	802.7	761.7	714.8	667.9	621.0
57.5°	1101.5	1072.2	1042.9	1001.9	966.7	925.7	878.8	837.8	785.1	738.2	685.5
55°	1183.5	1154.2	1119.1	1083.9	1048.7	1001.9	955.0	908.1	855.4	802.7	744.1
52.5°	1265.5	1230.4	1195.2	1160.1	1119.1	1078.0	1031.2	978.4	925.7	867.1	808.5
50°	1359.3	1318.3	1271.4	1230.4	1183.5	1142.5	1095.6	1042.9	990.2	925.7	867.1
47.5°	1447.2	1406.1	1359.3	1306.5	1259.7	1206.9	1154.2	1107.3	1048.7	990.2	925.7
45°	1546.8	1488.2	1441.3	1388.6	1330.0	1271.4	1218.7	1160.1	1107.3	1042.9	978.4
42.5°	1652.2	1587.8	1523.3	1458.9	1406.1	1341.7	1277.2	1218.7	1154.2	1095.6	1031.2
40°	1775.2	1699.1	1617.1	1546.8	1476.4	1412.0	1341.7	1271.4	1206.9	1142.5	1078.0
37.5°	1933.4	1828.0	1722.5	1634.6	1552.6	1476.4	1406.1	1330.0	1259.7	1183.5	1119.1
35°	2120.9	1974.5	1851.4	1728.4	1634.6	1546.8	1458.9	1388.6	1306.5	1230.4	1160.1
32.5°	2308.4	2150.2	1992.0	1851.4	1722.5	1617.1	1523.3	1441.3	1359.3	1271.4	1195.2
30°	2501.8	2326.0	2150.2	1974.5	1828.0	1699.1	1587.8	1488.2	1406.1	1318.3	1230.4
27.5°	2747.8	2501.8	2308.4	2120.9	1933.4	1775.2	1652.2	1546.8	1447.2	1359.3	1265.5
25°	3052.5	2718.5	2454.9	2255.7	2056.5	1874.9	1716.7	1599.5	1488.2	1400.3	1300.7
22.5°	3386.4	2976.3	2642.4	2384.6	2173.7	1962.7	1787.0	1652.2	1535.0	1429.6	1335.8
20°	3843.4	3257.6	2835.7	2519.3	2285.0	2062.3	1863.1	1699.1	1576.0	1464.7	1365.1
17.5°	4312.2	3591.5	3064.2	2671.7	2384.6	2150.2	1933.4	1751.8	1611.2	1494.0	1394.4
15°	4903.9	3943.0	3281.0	2806.4	2478.3	2232.2	1997.9	1798.7	1646.4	1523.3	1412.0
12.5°	5425.3	4282.9	3509.5	2964.6	2583.8	2302.6	2062.3	1845.6	1681.5	1546.8	1435.4
10°	6151.9	4687.1	3743.8	3111.1	2671.7	2367.0	2115.1	1886.6	1704.9	1570.2	1447.2
7.5°	6737.7	5003.5	3931.3	3222.4	2742.0	2413.9	2156.1	1915.9	1728.4	1581.9	1458.9
5°	7165.4	5237.9	4060.2	3310.3	2794.7	2443.2	2185.4	1939.3	1740.1	1593.6	1470.6
2.5°	7423.2	5425.3	4171.5	3374.7	2835.7	2472.5	2208.8	1956.9	1751.8	1605.3	1476.4
0°	7511.1	5425.3	4171.5	3374.7	2835.7	2472.5	2208.8	1956.9	1751.8	1605.3	1476.4



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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°	29.3	23.4	23.4	23.4	17.6	17.6	17.6	11.7	11.7	11.7	5.9
85°	52.7	52.7	46.9	41.0	41.0	35.2	29.3	29.3	23.4	17.6	17.6
82.5°	87.9	82.0	76.2	70.3	64.4	52.7	46.9	41.0	35.2	29.3	23.4
80°	123.0	117.2	105.5	93.7	87.9	76.2	70.3	58.6	46.9	41.0	35.2
77.5°	164.0	152.3	140.6	128.9	111.3	99.6	87.9	76.2	64.4	52.7	41.0
75°	216.8	193.3	175.8	158.2	140.6	123.0	105.5	93.7	76.2	64.4	46.9
72.5°	269.5	246.1	216.8	193.3	169.9	152.3	128.9	111.3	93.7	76.2	58.6
70°	322.2	292.9	263.7	234.4	205.1	175.8	152.3	128.9	105.5	87.9	70.3
67.5°	375.0	345.7	310.5	275.4	246.1	210.9	175.8	152.3	123.0	99.6	76.2
65°	439.4	398.4	357.4	322.2	281.2	246.1	205.1	169.9	140.6	111.3	87.9
62.5°	503.9	457.0	410.1	363.3	322.2	275.4	234.4	193.3	158.2	128.9	93.7
60°	568.3	515.6	462.9	410.1	357.4	310.5	263.7	216.8	175.8	140.6	105.5
57.5°	632.8	574.2	515.6	457.0	398.4	345.7	292.9	246.1	193.3	152.3	117.2
55°	691.4	632.8	568.3	503.9	439.4	375.0	322.2	269.5	216.8	164.0	123.0
52.5°	744.1	685.5	621.0	550.7	486.3	416.0	351.5	292.9	234.4	175.8	134.8
50°	802.7	738.2	667.9	597.6	521.4	451.1	380.8	316.4	251.9	193.3	146.5
47.5°	855.4	785.1	714.8	638.6	562.5	486.3	410.1	339.8	269.5	210.9	152.3
45°	908.1	837.8	761.7	679.6	603.5	521.4	439.4	357.4	292.9	222.6	164.0
42.5°	955.0	878.8	802.7	726.5	638.6	556.6	468.7	380.8	310.5	240.2	169.9
40°	1001.9	925.7	843.7	761.7	673.8	585.9	498.0	410.1	328.1	251.9	181.6
37.5°	1048.7	966.7	884.7	796.8	708.9	615.2	521.4	427.7	345.7	263.7	193.3
35°	1083.9	1001.9	919.8	832.0	738.2	644.5	550.7	451.1	357.4	275.4	199.2
32.5°	1119.1	1042.9	955.0	861.3	767.5	673.8	574.2	474.6	375.0	292.9	210.9
30°	1154.2	1072.2	984.3	890.6	796.8	697.2	597.6	492.1	392.5	298.8	216.8
27.5°	1183.5	1101.5	1013.6	919.8	820.2	720.6	615.2	509.7	404.3	310.5	228.5
25°	1212.8	1130.8	1042.9	943.3	843.7	738.2	632.8	527.3	421.8	322.2	234.4
22.5°	1242.1	1148.3	1066.3	966.7	867.1	761.7	650.3	539.0	433.6	328.1	240.2
20°	1265.5	1171.8	1083.9	984.3	884.7	779.2	667.9	556.6	445.3	339.8	246.1
17.5°	1289.0	1195.2	1101.5	1007.7	902.3	791.0	679.6	568.3	451.1	345.7	251.9
15°	1312.4	1212.8	1119.1	1019.5	914.0	808.5	691.4	580.0	462.9	351.5	257.8
12.5°	1330.0	1224.5	1130.8	1037.0	925.7	820.2	703.1	585.9	468.7	357.4	257.8
10°	1341.7	1236.2	1142.5	1048.7	937.4	826.1	708.9	597.6	474.6	363.3	263.7
7.5°	1353.4	1247.9	1148.3	1054.6	943.3	832.0	720.6	603.5	480.4	363.3	269.5
5°	1365.1	1253.8	1154.2	1060.5	949.1	843.7	726.5	609.3	486.3	369.1	269.5
2.5°	1371.0	1259.7	1160.1	1066.3	955.0	843.7	726.5	609.3	486.3	369.1	269.5
0°	1371.0	1259.7	1160.1	1066.3	955.0	843.7	726.5	609.3	486.3	369.1	269.5



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	5.9	5.9	0.0	0.0
85°	11.7	5.9	5.9	0.0
82.5°	17.6	11.7	5.9	0.0
80°	23.4	17.6	5.9	0.0
77.5°	29.3	17.6	11.7	0.0
75°	35.2	23.4	11.7	0.0
72.5°	41.0	29.3	11.7	0.0
70°	46.9	29.3	17.6	0.0
67.5°	52.7	35.2	17.6	0.0
65°	64.4	41.0	17.6	0.0
62.5°	70.3	41.0	23.4	0.0
60°	76.2	46.9	23.4	0.0
57.5°	82.0	52.7	23.4	0.0
55°	87.9	52.7	29.3	0.0
52.5°	93.7	58.6	29.3	0.0
50°	99.6	64.4	29.3	0.0
47.5°	105.5	70.3	29.3	0.0
45°	111.3	70.3	35.2	0.0
42.5°	123.0	76.2	35.2	0.0
40°	128.9	76.2	35.2	0.0
37.5°	134.8	82.0	35.2	0.0
35°	134.8	82.0	41.0	0.0
32.5°	140.6	87.9	41.0	0.0
30°	146.5	87.9	41.0	0.0
27.5°	152.3	93.7	41.0	0.0
25°	158.2	93.7	41.0	0.0
22.5°	158.2	93.7	41.0	0.0
20°	164.0	99.6	46.9	0.0
17.5°	164.0	99.6	46.9	0.0
15°	169.9	99.6	46.9	0.0
12.5°	169.9	105.5	46.9	0.0
10°	169.9	105.5	46.9	0.0
7.5°	175.8	105.5	46.9	0.0
5°	175.8	105.5	46.9	0.0
2.5°	175.8	105.5	46.9	0.0
0°	175.8	105.5	46.9	0.0

(END OF REPORT)