

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: P624092

Luminaire Tested: **EPH-VN-06-E-750-U-44**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624092
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-44
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 4 distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	56199.5 lumens	Max Intensity:	181723.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	121.1 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		

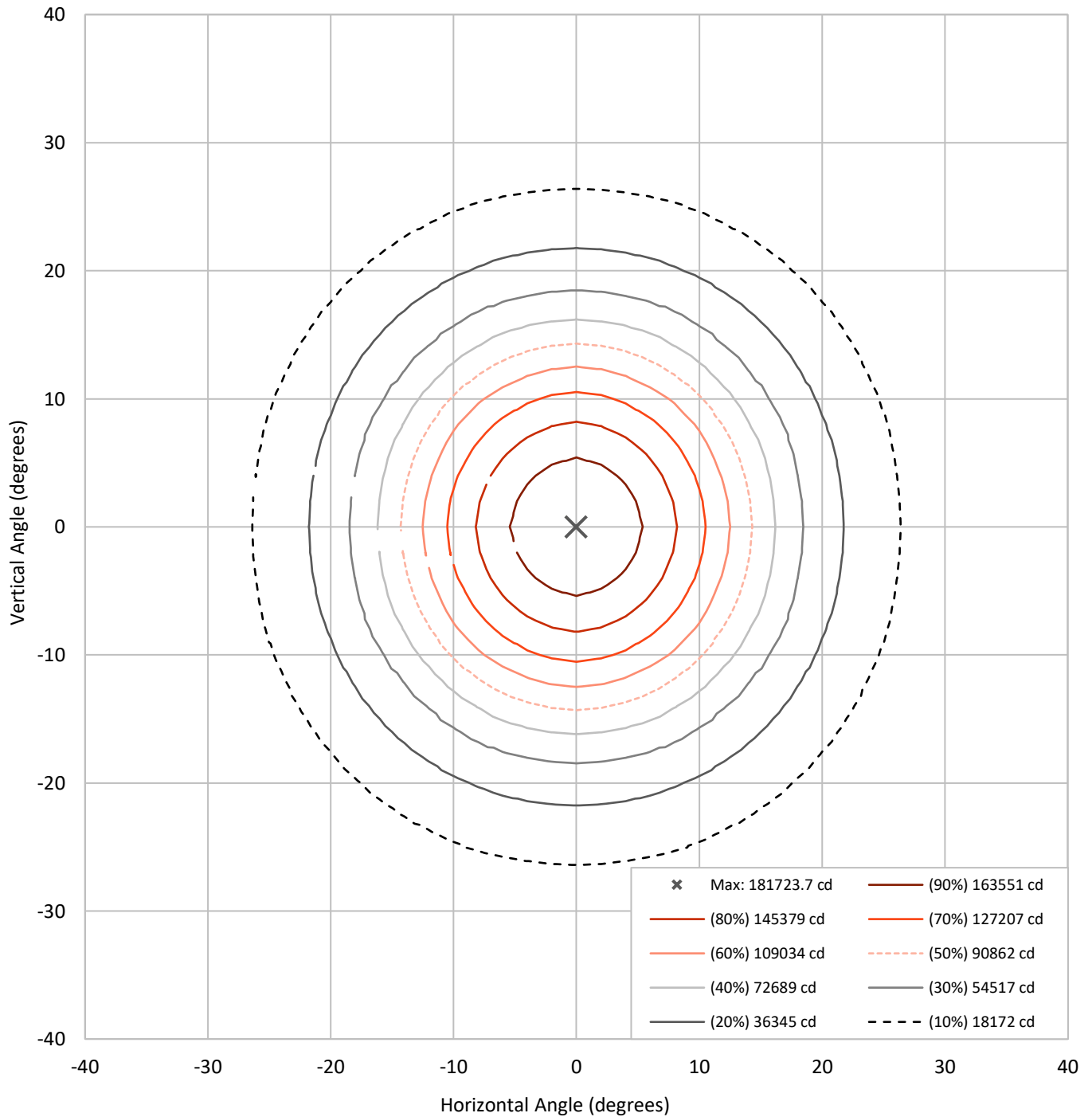
Beam Angle (50%):	28.6°H x 28.6°V	Field Angle (10%):	52.7°H x 52.7°V
Beam Lumens:	20277.8 lumens	Field Lumens:	34241.9 lumens
Beam Efficiency:	36.1%	Field Efficiency:	60.9%

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





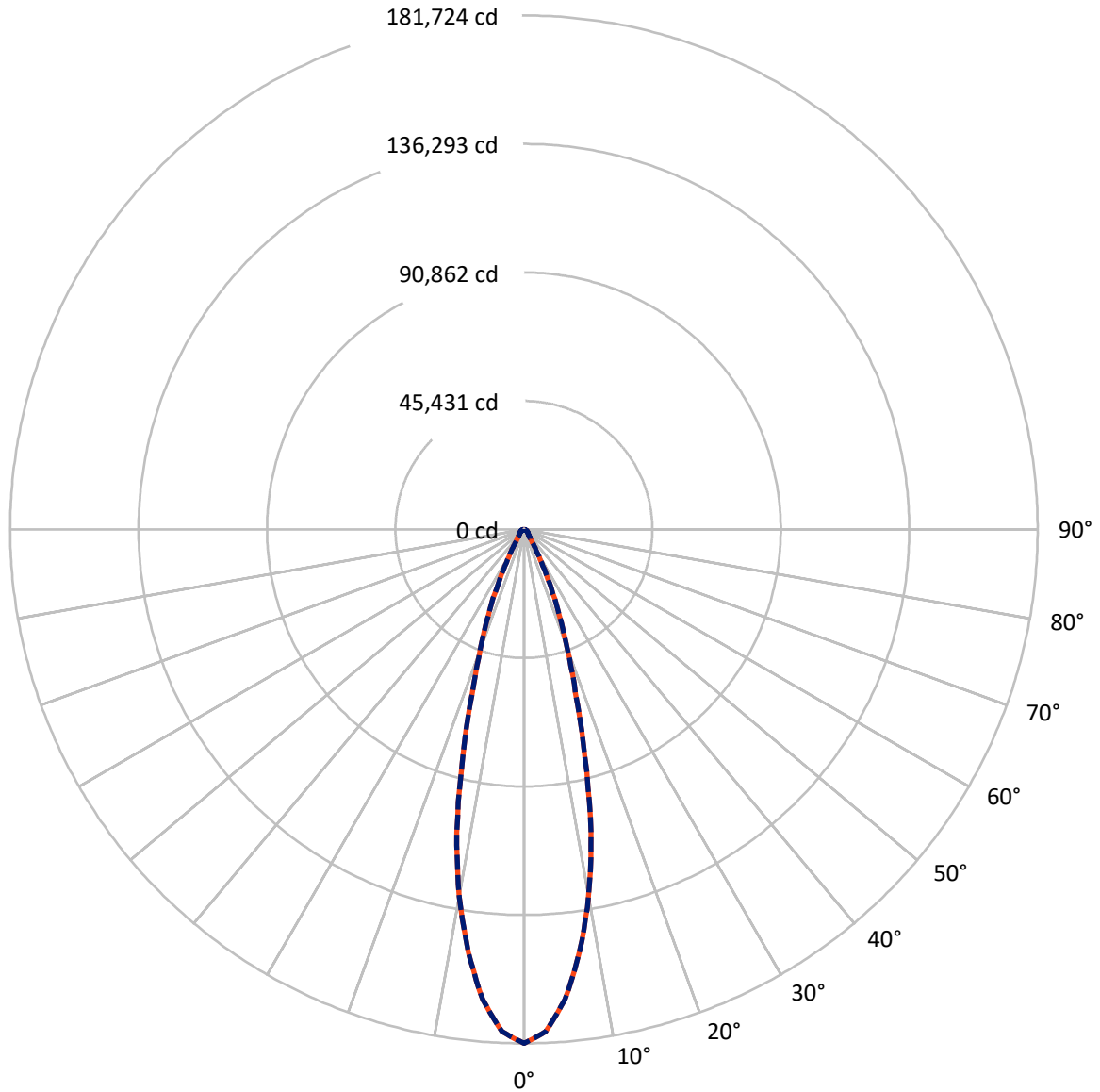
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Lumen Table

90	1.3	9.5	24.2	38.6	44.6	38.6	24.2	9.5	1.3							
80	1.3	9.5	24.2	38.6	44.6	38.6	24.2	9.5	1.3							
70	4.3	4.6	9.3	15.4	21.6	27.2	31.3	33.6	33.6	31.3	27.2	21.6	15.4	9.3	4.6	4.3
60		6.9	14.2	22.8	31.5	39.2	45.0	48.1	48.1	45.0	39.2	31.5	22.8	14.2	6.9	
50	7.4	9.3	18.6	29.3	40.2	51.1	60.9	67.2	67.2	60.9	51.1	40.2	29.3	18.6	9.3	7.4
40		11.3	22.2	34.8	49.9	71.1	103.8	138.1	138.1	103.8	71.1	49.9	34.8	22.2	11.3	
30	9.8	12.8	24.9	40.0	64.4	134.8	369.7	669.7	669.7	369.7	134.8	64.4	40.0	24.9	12.8	9.8
20		13.9	26.9	44.8	88.5	349.0	1200.3	2315.3	2315.3	1200.3	349.0	88.5	44.8	26.9	13.9	
10	10.7	14.4	27.9	48.0	114.8	614.8	2252.6	4440.9	4440.9	2252.6	614.8	114.8	48.0	27.9	14.4	10.7
0		14.4	27.9	48.0	114.8	614.8	2252.6	4440.9	4440.9	2252.6	614.8	114.8	48.0	27.9	14.4	
-10	9.8	13.9	26.9	44.8	88.5	349.0	1200.3	2315.3	2315.3	1200.3	349.0	88.5	44.8	26.9	13.9	9.8
-20		12.8	24.9	40.0	64.4	134.8	369.7	669.7	669.7	369.7	134.8	64.4	40.0	24.9	12.8	
-30	7.4	11.3	22.2	34.8	49.9	71.1	103.8	138.1	138.1	103.8	71.1	49.9	34.8	22.2	11.3	7.4
-40		9.3	18.6	29.3	40.2	51.1	60.9	67.2	67.2	60.9	51.1	40.2	29.3	18.6	9.3	
-50	4.3	6.9	14.2	22.8	31.5	39.2	45.0	48.1	48.1	45.0	39.2	31.5	22.8	14.2	6.9	4.3
-60		4.6	9.3	15.4	21.6	27.2	31.3	33.6	33.6	31.3	27.2	21.6	15.4	9.3	4.6	
-70	1.3	9.5	24.2	38.6	44.6	38.6	24.2	9.5	1.3							
-80		1.3	9.5	24.2	38.6	44.6	38.6	24.2	9.5	1.3						
-90	1.3	9.5	24.2	38.6	44.6	38.6	24.2	9.5	1.3							

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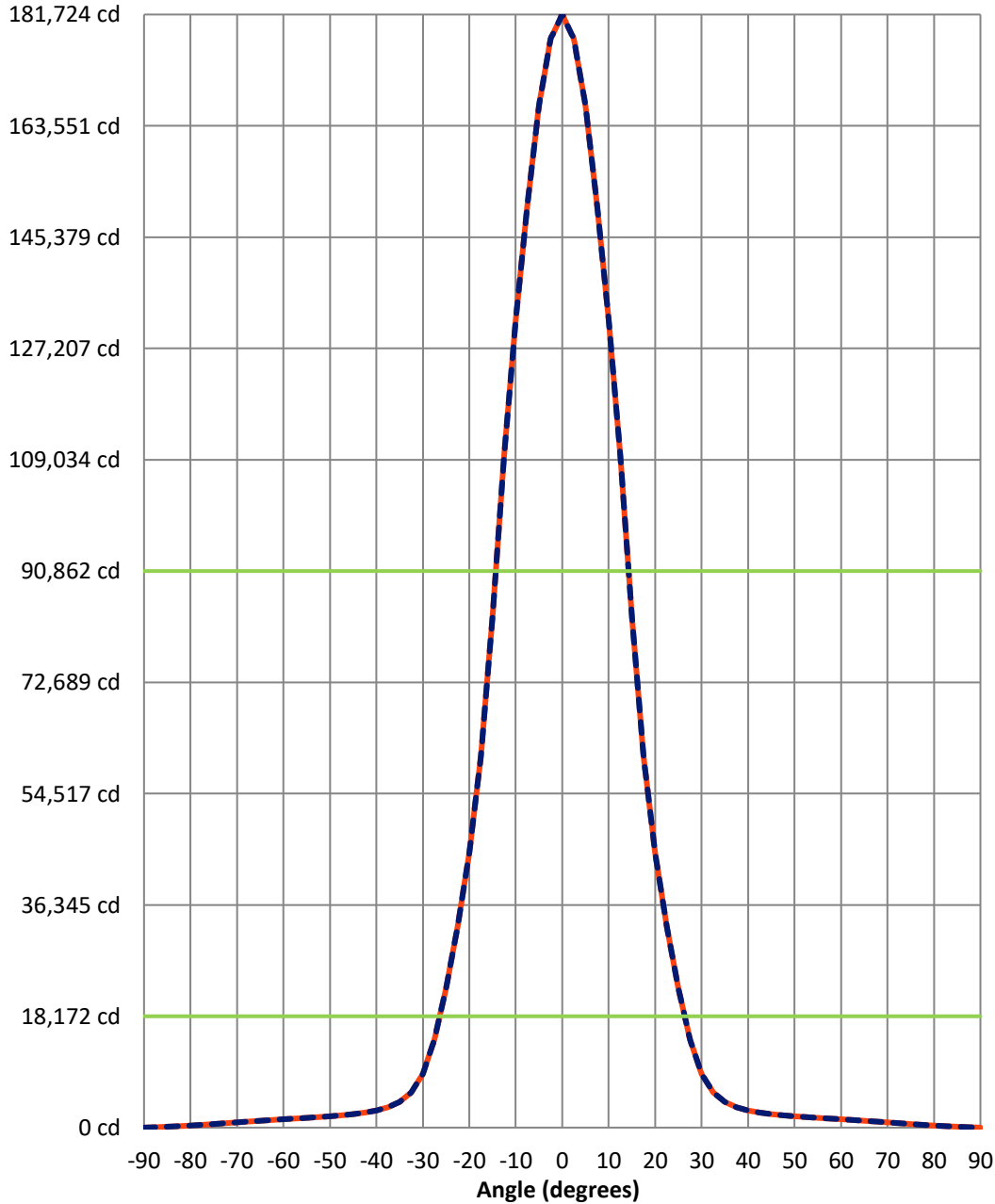
Luminous Intensity Polar Plot



— 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: 20277.8
Efficiency: 36.1%

Field:
H Angle: 52.7°
V Angle: 52.7°
Lumens: 34241.9
Efficiency: 60.9%

Spill:
Lumens: 21957.6
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°	64.5	64.5	64.5	64.5	64.5	64.5	64.5	58.6	58.6	58.6	58.6
85°	146.5	146.5	146.5	146.5	146.5	140.6	140.6	140.6	134.8	134.8	128.9
82.5°	234.4	234.4	234.4	234.4	228.5	228.5	222.7	222.7	216.8	216.8	210.9
80°	334.0	334.0	334.0	334.0	328.1	322.3	322.3	316.4	310.5	304.7	298.8
77.5°	451.2	451.2	451.2	445.3	439.5	439.5	433.6	421.9	416.0	404.3	398.4
75°	580.1	580.1	580.1	574.2	568.4	562.5	550.8	544.9	533.2	521.5	503.9
72.5°	720.7	720.7	720.7	714.8	703.1	697.3	685.6	673.8	662.1	644.5	627.0
70°	855.5	855.5	855.5	843.8	837.9	826.2	814.5	802.7	785.2	767.6	750.0
67.5°	990.2	990.2	990.2	978.5	972.7	960.9	949.2	931.6	914.1	890.6	873.1
65°	1113.3	1113.3	1107.4	1101.6	1095.7	1084.0	1066.4	1054.7	1037.1	1013.7	990.2
62.5°	1242.2	1242.2	1236.3	1230.5	1218.8	1207.0	1189.5	1171.9	1148.4	1125.0	1101.6
60°	1371.1	1371.1	1365.2	1359.4	1347.7	1330.1	1312.5	1294.9	1271.5	1242.2	1212.9
57.5°	1476.6	1476.6	1470.7	1464.9	1453.1	1441.4	1423.8	1406.3	1382.8	1359.4	1324.2
55°	1587.9	1587.9	1582.0	1570.3	1558.6	1546.9	1529.3	1505.9	1482.4	1453.1	1429.7
52.5°	1716.8	1716.8	1710.9	1699.2	1681.7	1664.1	1640.6	1611.3	1582.0	1552.7	1517.6
50°	1845.7	1845.7	1834.0	1822.3	1810.6	1787.1	1763.7	1734.4	1699.2	1664.1	1623.1
47.5°	2003.9	2003.9	1992.2	1974.6	1951.2	1927.7	1892.6	1851.6	1816.4	1775.4	1728.5
45°	2197.3	2197.3	2179.7	2162.1	2132.8	2091.8	2050.8	2003.9	1951.2	1898.4	1839.9
42.5°	2449.2	2449.2	2425.8	2396.5	2355.5	2302.7	2238.3	2173.8	2109.4	2039.1	1968.8
40°	2789.1	2789.1	2753.9	2712.9	2648.5	2572.3	2478.5	2390.6	2302.7	2203.1	2115.2
37.5°	3322.3	3322.3	3263.7	3187.5	3082.0	2953.1	2794.9	2677.8	2543.0	2414.1	2296.9
35°	4195.3	4195.3	4089.9	3955.1	3767.6	3533.2	3281.3	3082.0	2859.4	2677.8	2507.8
32.5°	5748.1	5748.1	5537.1	5273.5	4916.0	4459.0	4037.1	3685.6	3322.3	3041.0	2771.5
30°	8754.0	8754.0	8302.8	7746.1	6978.6	6017.6	5296.9	4623.1	4007.8	3544.9	3152.4
27.5°	14396.6	14162.2	13459.1	12304.8	10722.7	8754.0	7500.0	6076.2	5103.5	4218.8	3673.9
25°	22728.7	22341.9	21181.8	19289.2	16711.0	13787.2	11226.6	8525.4	6820.4	5349.6	4336.0
22.5°	32853.7	32320.5	30744.3	28172.0	24685.7	20795.0	16652.4	12767.7	9310.6	7072.3	5349.6
20°	44842.1	44127.2	42012.0	38578.4	33961.1	29009.9	23478.7	18275.5	13289.1	9310.6	6820.4
17.5°	60668.3	59578.5	56373.4	51217.1	44842.1	38168.2	31254.1	24539.2	18275.5	12767.7	8525.4
15°	83420.4	81580.6	76201.6	67658.6	57732.8	48428.0	39609.6	31254.1	23478.7	16652.4	11226.6
12.5°	109723.3	107162.7	99750.6	88190.0	74701.6	59988.6	48428.0	38168.2	29009.9	20795.0	13787.2
10°	131883.6	129182.4	121524.2	109928.4	92824.8	74701.6	57732.8	44842.1	33961.1	24685.7	16711.0
7.5°	150604.4	147581.0	139325.1	126639.4	109928.4	88190.0	67658.6	51217.1	38578.4	28172.0	19289.2
5°	166864.3	163032.2	153422.8	139325.1	121524.2	99750.6	76201.6	56373.4	42012.0	30744.3	21181.8
2.5°	177727.6	173227.6	163032.2	147581.0	129182.4	107162.7	81580.6	59578.5	44127.2	32320.5	22341.9
0°	181723.7	177727.6	166864.3	150604.4	131883.6	109723.3	83420.4	60668.3	44842.1	32853.7	22728.7



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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°	58.6	58.6	52.7	52.7	52.7	46.9	46.9	46.9	41.0	41.0	41.0
85°	128.9	123.0	123.0	117.2	111.3	105.5	105.5	99.6	93.8	87.9	82.0
82.5°	205.1	199.2	193.4	187.5	181.6	169.9	164.1	158.2	146.5	140.6	134.8
80°	287.1	281.3	269.5	263.7	252.0	240.2	228.5	216.8	205.1	193.4	181.6
77.5°	386.7	369.1	357.4	345.7	328.1	316.4	298.8	287.1	269.5	252.0	234.4
75°	492.2	474.6	457.0	439.5	421.9	398.4	380.9	357.4	339.8	316.4	298.8
72.5°	609.4	585.9	562.5	539.1	515.6	492.2	468.8	439.5	416.0	386.7	357.4
70°	726.6	703.1	679.7	650.4	621.1	591.8	562.5	527.3	498.0	462.9	427.7
67.5°	849.6	820.3	791.0	761.7	732.4	697.3	656.3	621.1	580.1	539.1	503.9
65°	966.8	937.5	902.3	867.2	832.0	796.9	755.9	714.8	668.0	621.1	580.1
62.5°	1072.3	1043.0	1013.7	972.7	937.5	896.5	855.5	802.7	755.9	709.0	656.3
60°	1183.6	1148.4	1113.3	1072.3	1031.3	990.2	943.4	890.6	843.8	785.2	732.4
57.5°	1289.1	1253.9	1212.9	1171.9	1125.0	1078.1	1031.3	978.5	925.8	867.2	808.6
55°	1394.5	1359.4	1318.4	1271.5	1218.8	1166.0	1113.3	1060.6	1007.8	943.4	878.9
52.5°	1482.4	1447.3	1406.3	1371.1	1312.5	1259.8	1201.2	1136.7	1078.1	1013.7	949.2
50°	1576.2	1535.2	1488.3	1447.3	1400.4	1347.7	1283.2	1218.8	1148.4	1084.0	1013.7
47.5°	1681.7	1628.9	1576.2	1523.4	1476.6	1418.0	1365.2	1294.9	1224.6	1148.4	1078.1
45°	1787.1	1728.5	1669.9	1605.5	1546.9	1488.3	1429.7	1371.1	1294.9	1218.8	1136.7
42.5°	1898.4	1828.1	1763.7	1699.2	1628.9	1558.6	1494.1	1429.7	1365.2	1283.2	1201.2
40°	2027.4	1945.3	1863.3	1787.1	1716.8	1634.8	1558.6	1488.3	1418.0	1347.7	1259.8
37.5°	2173.8	2074.2	1974.6	1880.9	1793.0	1716.8	1628.9	1546.9	1476.6	1400.4	1312.5
35°	2361.3	2214.9	2097.7	1980.5	1880.9	1787.1	1699.2	1605.5	1523.4	1447.3	1371.1
32.5°	2572.3	2390.6	2232.4	2097.7	1974.6	1863.3	1763.7	1669.9	1576.2	1488.3	1406.3
30°	2830.1	2595.7	2390.6	2214.9	2074.2	1945.3	1828.1	1728.5	1628.9	1535.2	1447.3
27.5°	3193.4	2830.1	2572.3	2361.3	2173.8	2027.4	1898.4	1787.1	1681.7	1576.2	1482.4
25°	3673.9	3152.4	2771.5	2507.8	2296.9	2115.2	1968.8	1839.9	1728.5	1623.1	1517.6
22.5°	4218.8	3544.9	3041.0	2677.8	2414.1	2203.1	2039.1	1898.4	1775.4	1664.1	1552.7
20°	5103.5	4007.8	3322.3	2859.4	2543.0	2302.7	2109.4	1951.2	1816.4	1699.2	1582.0
17.5°	6076.2	4623.1	3685.6	3082.0	2677.8	2390.6	2173.8	2003.9	1851.6	1734.4	1611.3
15°	7500.0	5296.9	4037.1	3281.3	2794.9	2478.5	2238.3	2050.8	1892.6	1763.7	1640.6
12.5°	8754.0	6017.6	4459.0	3533.2	2953.1	2572.3	2302.7	2091.8	1927.7	1787.1	1664.1
10°	10722.7	6978.6	4916.0	3767.6	3082.0	2648.5	2355.5	2132.8	1951.2	1810.6	1681.7
7.5°	12304.8	7746.1	5273.5	3955.1	3187.5	2712.9	2396.5	2162.1	1974.6	1822.3	1699.2
5°	13459.1	8302.8	5537.1	4089.9	3263.7	2753.9	2425.8	2179.7	1992.2	1834.0	1710.9
2.5°	14162.2	8754.0	5748.1	4195.3	3322.3	2789.1	2449.2	2197.3	2003.9	1845.7	1716.8
0°	14396.6	8754.0	5748.1	4195.3	3322.3	2789.1	2449.2	2197.3	2003.9	1845.7	1716.8



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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°	35.2	35.2	29.3	29.3	29.3	23.4	23.4	17.6	17.6	11.7	11.7
85°	76.2	70.3	64.5	58.6	52.7	46.9	46.9	41.0	35.2	29.3	23.4
82.5°	123.0	117.2	105.5	93.8	87.9	76.2	64.5	58.6	52.7	41.0	35.2
80°	169.9	158.2	146.5	134.8	123.0	105.5	93.8	82.0	64.5	52.7	46.9
77.5°	222.7	205.1	187.5	169.9	152.3	140.6	123.0	105.5	87.9	70.3	52.7
75°	275.4	252.0	234.4	210.9	193.4	169.9	146.5	128.9	111.3	87.9	64.5
72.5°	334.0	304.7	281.3	252.0	228.5	205.1	175.8	152.3	128.9	105.5	82.0
70°	398.4	363.3	328.1	298.8	269.5	234.4	205.1	175.8	146.5	123.0	93.8
67.5°	462.9	421.9	380.9	339.8	304.7	269.5	234.4	205.1	169.9	140.6	105.5
65°	527.3	480.5	439.5	392.6	345.7	304.7	269.5	228.5	193.4	152.3	123.0
62.5°	597.7	544.9	492.2	439.5	392.6	339.8	298.8	252.0	210.9	169.9	134.8
60°	673.8	615.2	550.8	492.2	439.5	380.9	328.1	281.3	234.4	187.5	146.5
57.5°	744.1	679.7	615.2	544.9	480.5	421.9	363.3	304.7	252.0	205.1	158.2
55°	814.5	744.1	673.8	597.7	527.3	462.9	398.4	334.0	275.4	222.7	169.9
52.5°	878.9	808.6	732.4	656.3	580.1	503.9	427.7	357.4	298.8	234.4	181.6
50°	943.4	867.2	785.2	709.0	621.1	539.1	462.9	386.7	316.4	252.0	193.4
47.5°	1007.8	925.8	843.8	755.9	668.0	580.1	498.0	416.0	339.8	269.5	205.1
45°	1060.6	978.5	890.6	802.7	714.8	621.1	527.3	439.5	357.4	287.1	216.8
42.5°	1113.3	1031.3	943.4	855.5	755.9	656.3	562.5	468.8	380.9	298.8	228.5
40°	1166.0	1078.1	990.2	896.5	796.9	697.3	591.8	492.2	398.4	316.4	240.2
37.5°	1218.8	1125.0	1031.3	937.5	832.0	732.4	621.1	515.6	421.9	328.1	252.0
35°	1271.5	1171.9	1072.3	972.7	867.2	761.7	650.4	539.1	439.5	345.7	263.7
32.5°	1318.4	1212.9	1113.3	1013.7	902.3	791.0	679.7	562.5	457.0	357.4	269.5
30°	1359.4	1253.9	1148.4	1043.0	937.5	820.3	703.1	585.9	474.6	369.1	281.3
27.5°	1394.5	1289.1	1183.6	1072.3	966.8	849.6	726.6	609.4	492.2	386.7	287.1
25°	1429.7	1324.2	1212.9	1101.6	990.2	873.1	750.0	627.0	503.9	398.4	298.8
22.5°	1453.1	1359.4	1242.2	1125.0	1013.7	890.6	767.6	644.5	521.5	404.3	304.7
20°	1482.4	1382.8	1271.5	1148.4	1037.1	914.1	785.2	662.1	533.2	416.0	310.5
17.5°	1505.9	1406.3	1294.9	1171.9	1054.7	931.6	802.7	673.8	544.9	421.9	316.4
15°	1529.3	1423.8	1312.5	1189.5	1066.4	949.2	814.5	685.6	550.8	433.6	322.3
12.5°	1546.9	1441.4	1330.1	1207.0	1084.0	960.9	826.2	697.3	562.5	439.5	322.3
10°	1558.6	1453.1	1347.7	1218.8	1095.7	972.7	837.9	703.1	568.4	439.5	328.1
7.5°	1570.3	1464.9	1359.4	1230.5	1101.6	978.5	843.8	714.8	574.2	445.3	334.0
5°	1582.0	1470.7	1365.2	1236.3	1107.4	990.2	855.5	720.7	580.1	451.2	334.0
2.5°	1587.9	1476.6	1371.1	1242.2	1113.3	990.2	855.5	720.7	580.1	451.2	334.0
0°	1587.9	1476.6	1371.1	1242.2	1113.3	990.2	855.5	720.7	580.1	451.2	334.0



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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°	17.6	11.7	5.9	0.0
82.5°	23.4	17.6	5.9	0.0
80°	35.2	23.4	11.7	0.0
77.5°	41.0	29.3	11.7	0.0
75°	52.7	35.2	17.6	0.0
72.5°	58.6	41.0	17.6	0.0
70°	64.5	46.9	23.4	0.0
67.5°	76.2	46.9	23.4	0.0
65°	87.9	52.7	29.3	0.0
62.5°	93.8	58.6	29.3	0.0
60°	105.5	64.5	29.3	0.0
57.5°	117.2	70.3	35.2	0.0
55°	123.0	76.2	35.2	0.0
52.5°	134.8	82.0	41.0	0.0
50°	140.6	87.9	41.0	0.0
47.5°	146.5	93.8	41.0	0.0
45°	158.2	99.6	46.9	0.0
42.5°	164.1	105.5	46.9	0.0
40°	169.9	105.5	46.9	0.0
37.5°	181.6	111.3	52.7	0.0
35°	187.5	117.2	52.7	0.0
32.5°	193.4	123.0	52.7	0.0
30°	199.2	123.0	58.6	0.0
27.5°	205.1	128.9	58.6	0.0
25°	210.9	128.9	58.6	0.0
22.5°	216.8	134.8	58.6	0.0
20°	216.8	134.8	58.6	0.0
17.5°	222.7	140.6	58.6	0.0
15°	222.7	140.6	64.5	0.0
12.5°	228.5	140.6	64.5	0.0
10°	228.5	146.5	64.5	0.0
7.5°	234.4	146.5	64.5	0.0
5°	234.4	146.5	64.5	0.0
2.5°	234.4	146.5	64.5	0.0
0°	234.4	146.5	64.5	0.0

(END OF REPORT)