

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: P624215

Luminaire Tested: **EPH-VN-08-E-930-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624215
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-930-U-77
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 7 distribution lens
Light Source: (128) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

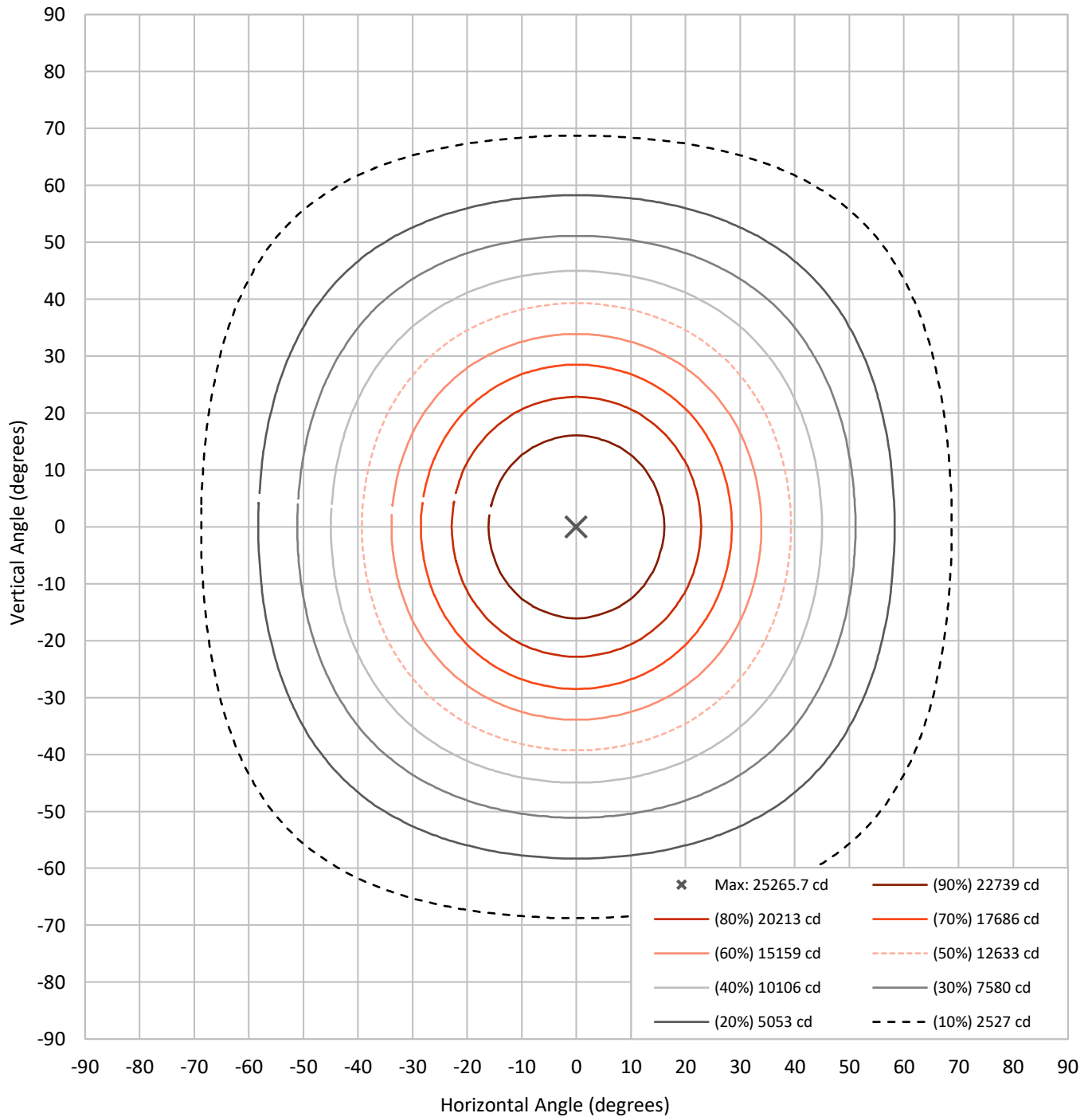
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	45491.4 lumens	Max Intensity:	25265.7 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	72.6 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	19683.7 lumens	Field Lumens:	32231.4 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

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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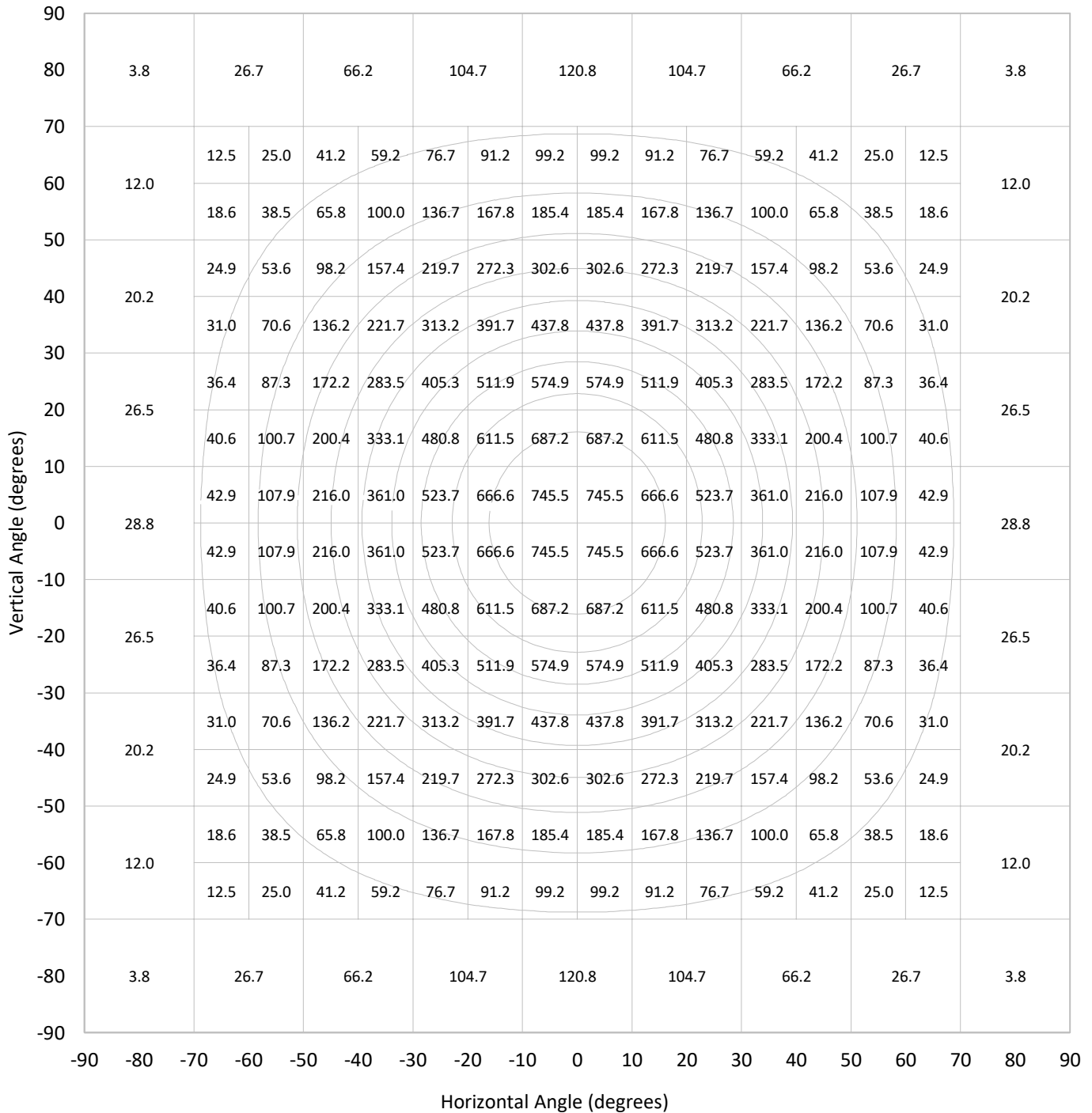
Iso-Candela Plot





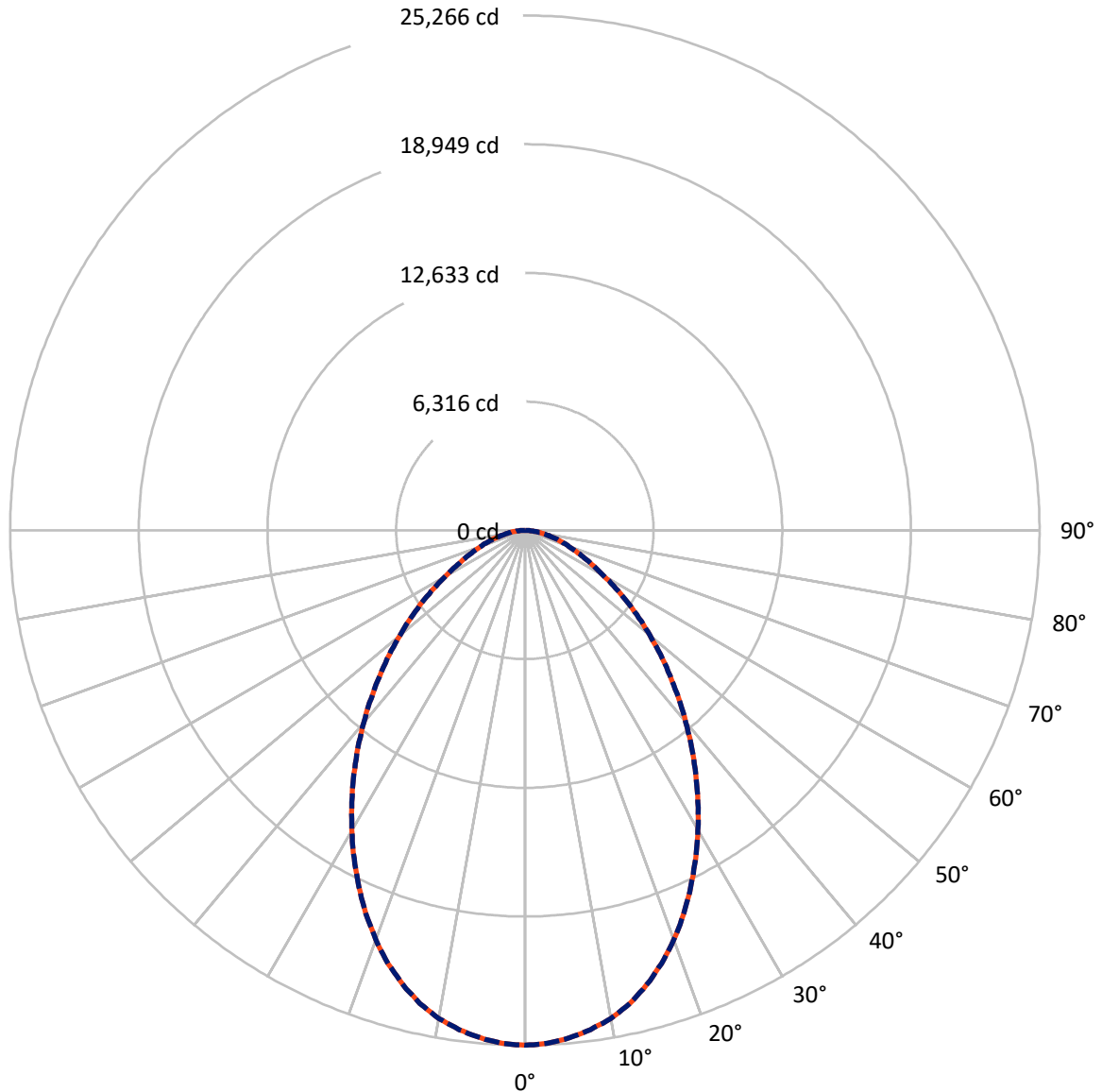
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Lumen Table



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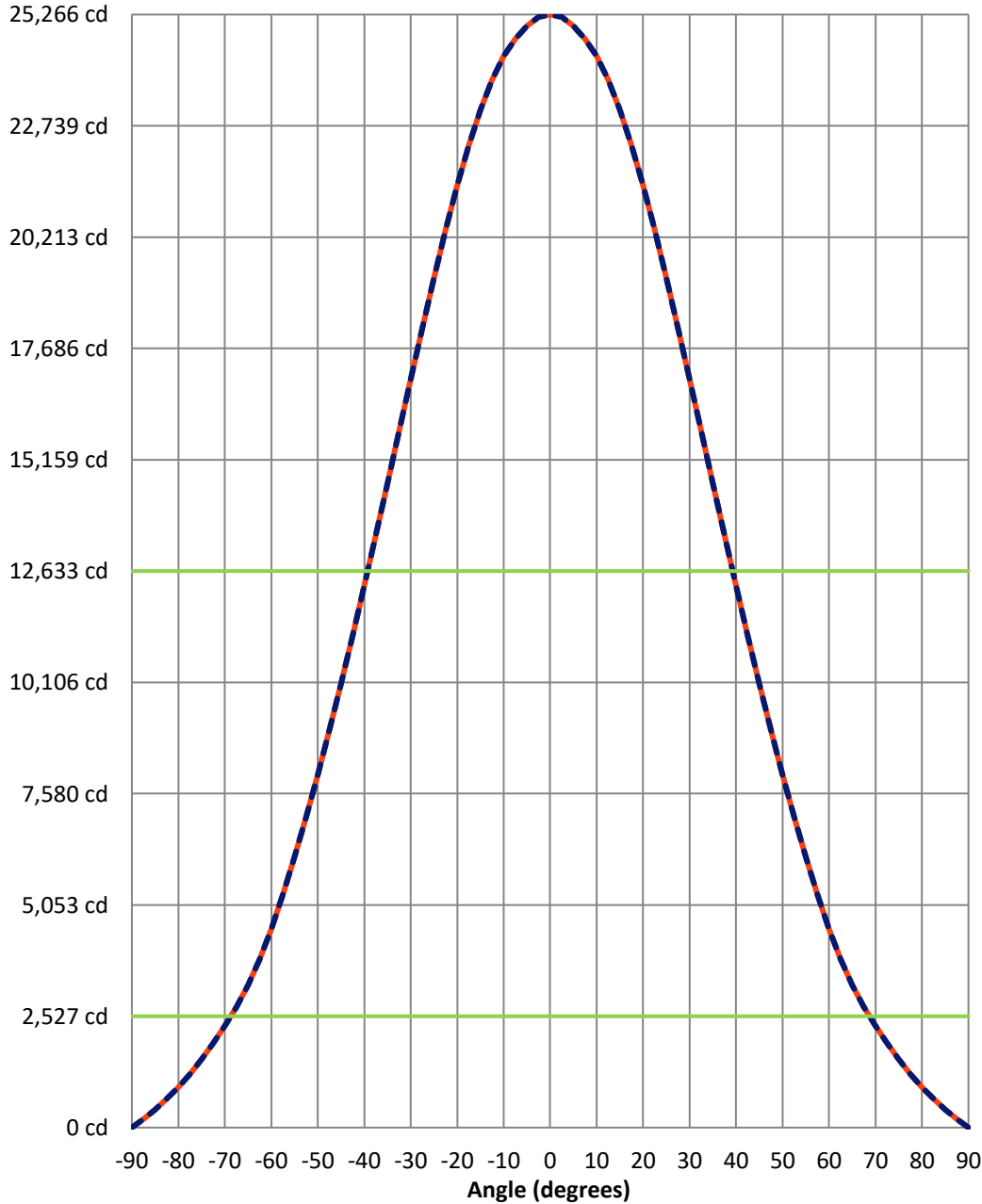
Luminous Intensity Polar Plot



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

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Luminous Intensity Plot



Beam:
 H Angle: 78.6°
 V Angle: 78.6°
 Lumens: 19683.7
 Efficiency: 43.3%

Field:
 H Angle: 137.5°
 V Angle: 137.5°
 Lumens: 32231.4
 Efficiency: 70.9%

Spill:
 Lumens: 13260.1
 Efficiency: 29.1%

- 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°	194.5	194.5	194.5	194.5	194.5	194.5	194.5	185.0	185.0	180.2	175.5
85°	407.9	407.9	407.9	407.9	407.9	398.4	393.7	388.9	384.2	374.7	369.9
82.5°	654.5	654.5	654.5	654.5	645.0	635.6	630.8	621.3	611.8	597.6	583.4
80°	915.4	915.4	915.4	915.4	901.2	891.7	877.4	868.0	853.7	834.8	815.8
77.5°	1214.2	1214.2	1214.2	1200.0	1190.5	1176.3	1162.0	1143.1	1124.1	1100.4	1071.9
75°	1550.9	1550.9	1550.9	1532.0	1517.7	1503.5	1479.8	1456.1	1427.6	1394.4	1356.5
72.5°	1916.2	1916.2	1916.2	1892.4	1878.2	1854.5	1826.0	1792.8	1759.6	1716.9	1669.5
70°	2309.8	2309.8	2309.8	2281.4	2257.6	2233.9	2196.0	2158.0	2110.6	2063.2	2006.3
67.5°	2736.7	2736.7	2736.7	2703.5	2675.0	2641.8	2599.1	2551.7	2494.8	2428.4	2362.0
65°	3234.7	3234.7	3215.7	3187.3	3154.1	3106.6	3054.5	2988.1	2916.9	2831.5	2741.4
62.5°	3822.8	3822.8	3794.4	3761.2	3718.5	3656.8	3585.7	3500.3	3400.7	3291.6	3182.5
60°	4505.8	4505.8	4472.6	4429.9	4368.3	4292.4	4197.5	4088.4	3965.1	3827.6	3694.8
57.5°	5293.1	5293.1	5250.4	5193.5	5117.6	5022.8	4904.2	4766.7	4610.1	4439.4	4273.4
55°	6146.9	6146.9	6094.7	6028.3	5938.2	5824.3	5682.0	5520.8	5331.1	5136.6	4923.2
52.5°	7052.8	7052.8	6991.1	6915.2	6810.9	6678.1	6516.8	6327.1	6108.9	5881.3	5629.9
50°	8006.1	8006.1	7934.9	7849.6	7731.0	7574.5	7389.5	7171.3	6929.4	6663.8	6374.5
47.5°	9025.8	9025.8	8945.2	8845.6	8703.3	8523.1	8304.9	8053.5	7778.4	7479.6	7152.4
45°	10074.0	10074.0	9983.9	9870.1	9713.6	9509.6	9267.7	9025.8	8674.8	8328.6	7949.2
42.5°	11164.9	11164.9	11060.6	10932.5	10752.3	10529.3	10254.2	9941.2	9595.0	9206.1	8793.4
40°	12298.5	12298.5	12179.9	12032.9	11833.7	11577.5	11269.2	10918.3	10529.3	10097.7	9642.4
37.5°	13455.7	13455.7	13322.9	13161.7	12938.8	12654.2	12307.9	11919.0	11482.7	11003.6	10500.9
35°	14622.5	14622.5	14475.5	14300.0	14053.3	13740.3	13365.6	12934.0	12450.2	11928.5	11364.1
32.5°	15813.0	15813.0	15651.7	15452.5	15172.7	14826.4	14413.8	13944.3	13455.7	12848.6	12232.1
30°	16989.2	16989.2	16813.7	16595.6	16296.8	15917.3	15466.7	14949.8	14375.9	13754.5	13090.5
27.5°	18146.5	18099.1	17952.1	17719.6	17392.4	16989.2	16500.7	15941.0	15319.7	14636.7	13925.3
25°	19284.8	19232.6	19071.4	18815.3	18464.3	18023.2	17496.7	16899.1	16230.4	15509.4	14731.6
22.5°	20375.7	20318.8	20148.0	19872.9	19498.3	19019.2	18454.8	17814.5	17103.1	16330.0	15509.4
20°	21385.9	21324.3	21148.8	20859.5	20470.6	19963.1	19365.4	18677.7	17918.9	17103.1	16230.4
17.5°	22296.6	22234.9	22050.0	21751.2	21385.9	20821.5	20205.0	19479.3	18677.7	17814.5	16899.1
15°	23098.1	23031.7	22842.0	22543.2	22125.8	21594.6	20944.9	20205.0	19365.4	18454.8	17496.7
12.5°	23781.1	23714.7	23520.3	23221.5	22789.9	22258.6	21594.6	20821.5	19963.1	19019.2	18023.2
10°	24321.8	24255.4	24070.5	23785.9	23340.0	22789.9	22125.8	21385.9	20470.6	19498.3	18464.3
7.5°	24710.7	24649.1	24478.3	24193.8	23785.9	23221.5	22543.2	21751.2	20859.5	19872.9	18815.3
5°	25004.8	24933.7	24762.9	24478.3	24070.5	23520.3	22842.0	22050.0	21148.8	20148.0	19071.4
2.5°	25208.8	25123.4	24933.7	24649.1	24255.4	23714.7	23031.7	22234.9	21324.3	20318.8	19232.6
0°	25265.7	25208.8	25004.8	24710.7	24321.8	23781.1	23098.1	22296.6	21385.9	20375.7	19284.8



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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°	170.7	170.7	166.0	161.3	156.5	147.0	142.3	137.5	132.8	123.3	118.6
85°	360.5	351.0	341.5	332.0	317.8	308.3	294.1	284.6	270.3	256.1	241.9
82.5°	569.2	554.9	536.0	521.7	502.8	479.0	460.1	436.4	412.6	393.7	369.9
80°	796.8	773.1	749.4	725.7	697.2	668.8	640.3	611.8	578.6	545.4	512.2
77.5°	1043.4	1010.2	977.0	939.1	905.9	868.0	830.0	792.1	749.4	706.7	664.0
75°	1318.5	1275.9	1228.4	1181.0	1138.3	1086.1	1034.0	981.8	924.9	872.7	815.8
72.5°	1617.3	1565.2	1508.3	1451.3	1389.7	1323.3	1256.9	1185.7	1119.3	1052.9	981.8
70°	1939.9	1878.2	1807.1	1735.9	1660.0	1579.4	1498.8	1413.4	1328.0	1242.7	1157.3
67.5°	2286.1	2210.2	2124.8	2039.5	1944.6	1849.7	1754.9	1655.3	1550.9	1446.6	1347.0
65°	2656.0	2561.2	2461.6	2352.5	2243.4	2134.3	2020.5	1901.9	1783.3	1660.0	1550.9
62.5°	3068.7	2950.1	2822.1	2689.3	2565.9	2433.1	2309.8	2162.8	2020.5	1882.9	1745.4
60°	3547.7	3391.2	3234.7	3068.7	2912.2	2741.4	2589.6	2428.4	2267.1	2110.6	1949.4
57.5°	4083.7	3884.5	3694.8	3495.6	3286.9	3097.1	2902.7	2708.2	2528.0	2343.0	2167.5
55°	4690.8	4448.9	4211.7	3965.1	3723.2	3486.1	3239.4	3021.3	2798.3	2589.6	2385.7
52.5°	5354.8	5079.7	4785.6	4505.8	4197.5	3903.4	3628.4	3353.3	3092.4	2841.0	2608.6
50°	6066.2	5743.7	5407.0	5065.5	4714.5	4368.3	4036.2	3713.7	3410.2	3116.1	2841.0
47.5°	6806.1	6440.9	6056.7	5667.8	5293.1	4871.0	4472.6	4107.4	3742.2	3410.2	3092.4
45°	7565.0	7152.4	6730.2	6289.1	5848.1	5392.7	4951.6	4505.8	4107.4	3713.7	3353.3
42.5°	8347.6	7882.8	7413.2	6924.7	6436.2	5938.2	5440.2	4951.6	4472.6	4036.2	3628.4
40°	9153.9	8641.6	8105.7	7574.5	7052.8	6483.6	5938.2	5392.7	4871.0	4368.3	3903.4
37.5°	9960.2	9400.5	8821.9	8224.3	7626.7	7052.8	6436.2	5848.1	5293.1	4714.5	4197.5
35°	10771.2	10154.6	9528.6	8878.8	8224.3	7574.5	6924.7	6289.1	5667.8	5065.5	4505.8
32.5°	11587.0	10913.5	10221.0	9528.6	8821.9	8105.7	7413.2	6730.2	6056.7	5407.0	4785.6
30°	12388.6	11658.2	10913.5	10154.6	9400.5	8641.6	7882.8	7152.4	6440.9	5743.7	5079.7
27.5°	13171.2	12388.6	11587.0	10771.2	9960.2	9153.9	8347.6	7565.0	6806.1	6066.2	5354.8
25°	13925.3	13090.5	12232.1	11364.1	10500.9	9642.4	8793.4	7949.2	7152.4	6374.5	5629.9
22.5°	14636.7	13754.5	12848.6	11928.5	11003.6	10097.7	9206.1	8328.6	7479.6	6663.8	5881.3
20°	15319.7	14375.9	13455.7	12450.2	11482.7	10529.3	9595.0	8674.8	7778.4	6929.4	6108.9
17.5°	15941.0	14949.8	13944.3	12934.0	11919.0	10918.3	9941.2	9025.8	8053.5	7171.3	6327.1
15°	16500.7	15466.7	14413.8	13365.6	12307.9	11269.2	10254.2	9267.7	8304.9	7389.5	6516.8
12.5°	16989.2	15917.3	14826.4	13740.3	12654.2	11577.5	10529.3	9509.6	8523.1	7574.5	6678.1
10°	17392.4	16296.8	15172.7	14053.3	12938.8	11833.7	10752.3	9713.6	8703.3	7731.0	6810.9
7.5°	17719.6	16595.6	15452.5	14300.0	13161.7	12032.9	10932.5	9870.1	8845.6	7849.6	6915.2
5°	17952.1	16813.7	15651.7	14475.5	13322.9	12179.9	11060.6	9983.9	8945.2	7934.9	6991.1
2.5°	18099.1	16989.2	15813.0	14622.5	13455.7	12298.5	11164.9	10074.0	9025.8	8006.1	7052.8
0°	18146.5	16989.2	15813.0	14622.5	13455.7	12298.5	11164.9	10074.0	9025.8	8006.1	7052.8



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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°	113.8	104.3	94.9	90.1	80.6	75.9	66.4	56.9	52.2	42.7	33.2
85°	227.7	208.7	194.5	180.2	166.0	147.0	132.8	118.6	99.6	85.4	66.4
82.5°	346.2	322.5	298.8	275.1	251.4	227.7	199.2	175.5	151.8	128.1	99.6
80°	479.0	441.1	407.9	374.7	341.5	308.3	270.3	237.1	199.2	166.0	132.8
77.5°	616.6	573.9	526.5	479.0	431.6	388.9	341.5	298.8	256.1	208.7	166.0
75°	763.6	706.7	654.5	592.9	536.0	474.3	417.4	360.5	308.3	256.1	199.2
72.5°	915.4	844.2	773.1	706.7	635.6	564.4	498.0	426.9	360.5	298.8	237.1
70°	1071.9	986.5	901.2	820.5	739.9	654.5	578.6	498.0	417.4	341.5	270.3
67.5°	1237.9	1138.3	1038.7	934.4	844.2	749.4	654.5	564.4	474.3	388.9	308.3
65°	1418.1	1299.6	1176.3	1067.2	948.6	844.2	739.9	635.6	536.0	431.6	341.5
62.5°	1603.1	1465.6	1328.0	1190.5	1067.2	934.4	820.5	706.7	592.9	479.0	374.7
60°	1792.8	1636.3	1479.8	1328.0	1176.3	1038.7	901.2	773.1	654.5	526.5	407.9
57.5°	1987.3	1811.8	1636.3	1465.6	1299.6	1138.3	986.5	844.2	706.7	573.9	441.1
55°	2186.5	1987.3	1792.8	1603.1	1418.1	1237.9	1071.9	915.4	763.6	616.6	479.0
52.5°	2385.7	2167.5	1949.4	1745.4	1550.9	1347.0	1157.3	981.8	815.8	664.0	512.2
50°	2589.6	2343.0	2110.6	1882.9	1660.0	1446.6	1242.7	1052.9	872.7	706.7	545.4
47.5°	2798.3	2528.0	2267.1	2020.5	1783.3	1550.9	1328.0	1119.3	924.9	749.4	578.6
45°	3021.3	2708.2	2428.4	2162.8	1901.9	1655.3	1413.4	1185.7	981.8	792.1	611.8
42.5°	3239.4	2902.7	2589.6	2309.8	2020.5	1754.9	1498.8	1256.9	1034.0	830.0	640.3
40°	3486.1	3097.1	2741.4	2433.1	2134.3	1849.7	1579.4	1323.3	1086.1	868.0	668.8
37.5°	3723.2	3286.9	2912.2	2565.9	2243.4	1944.6	1660.0	1389.7	1138.3	905.9	697.2
35°	3965.1	3495.6	3068.7	2689.3	2352.5	2039.5	1735.9	1451.3	1181.0	939.1	725.7
32.5°	4211.7	3694.8	3234.7	2822.1	2461.6	2124.8	1807.1	1508.3	1228.4	977.0	749.4
30°	4448.9	3884.5	3391.2	2950.1	2561.2	2210.2	1878.2	1565.2	1275.9	1010.2	773.1
27.5°	4690.8	4083.7	3547.7	3068.7	2656.0	2286.1	1939.9	1617.3	1318.5	1043.4	796.8
25°	4923.2	4273.4	3694.8	3182.5	2741.4	2362.0	2006.3	1669.5	1356.5	1071.9	815.8
22.5°	5136.6	4439.4	3827.6	3291.6	2831.5	2428.4	2063.2	1716.9	1394.4	1100.4	834.8
20°	5331.1	4610.1	3965.1	3400.7	2916.9	2494.8	2110.6	1759.6	1427.6	1124.1	853.7
17.5°	5520.8	4766.7	4088.4	3500.3	2988.1	2551.7	2158.0	1792.8	1456.1	1143.1	868.0
15°	5682.0	4904.2	4197.5	3585.7	3054.5	2599.1	2196.0	1826.0	1479.8	1162.0	877.4
12.5°	5824.3	5022.8	4292.4	3656.8	3106.6	2641.8	2233.9	1854.5	1503.5	1176.3	891.7
10°	5938.2	5117.6	4368.3	3718.5	3154.1	2675.0	2257.6	1878.2	1517.7	1190.5	901.2
7.5°	6028.3	5193.5	4429.9	3761.2	3187.3	2703.5	2281.4	1892.4	1532.0	1200.0	915.4
5°	6094.7	5250.4	4472.6	3794.4	3215.7	2736.7	2309.8	1916.2	1550.9	1214.2	915.4
2.5°	6146.9	5293.1	4505.8	3822.8	3234.7	2736.7	2309.8	1916.2	1550.9	1214.2	915.4
0°	6146.9	5293.1	4505.8	3822.8	3234.7	2736.7	2309.8	1916.2	1550.9	1214.2	915.4



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	23.7	19.0	9.5	0.0
85°	52.2	33.2	19.0	0.0
82.5°	75.9	52.2	23.7	0.0
80°	99.6	66.4	33.2	0.0
77.5°	128.1	85.4	42.7	0.0
75°	151.8	99.6	52.2	0.0
72.5°	175.5	118.6	56.9	0.0
70°	199.2	132.8	66.4	0.0
67.5°	227.7	147.0	75.9	0.0
65°	251.4	166.0	80.6	0.0
62.5°	275.1	180.2	90.1	0.0
60°	298.8	194.5	94.9	0.0
57.5°	322.5	208.7	104.3	0.0
55°	346.2	227.7	113.8	0.0
52.5°	369.9	241.9	118.6	0.0
50°	393.7	256.1	123.3	0.0
47.5°	412.6	270.3	132.8	0.0
45°	436.4	284.6	137.5	0.0
42.5°	460.1	294.1	142.3	0.0
40°	479.0	308.3	147.0	0.0
37.5°	502.8	317.8	156.5	0.0
35°	521.7	332.0	161.3	0.0
32.5°	536.0	341.5	166.0	0.0
30°	554.9	351.0	170.7	0.0
27.5°	569.2	360.5	170.7	0.0
25°	583.4	369.9	175.5	0.0
22.5°	597.6	374.7	180.2	0.0
20°	611.8	384.2	185.0	0.0
17.5°	621.3	388.9	185.0	0.0
15°	630.8	393.7	194.5	0.0
12.5°	635.6	398.4	194.5	0.0
10°	645.0	407.9	194.5	0.0
7.5°	654.5	407.9	194.5	0.0
5°	654.5	407.9	194.5	0.0
2.5°	654.5	407.9	194.5	0.0
0°	654.5	407.9	194.5	0.0

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