

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: P624218

Luminaire Tested: **EPH-VN-06-E-935-U-77**

Issue Date: 11/2/2022

Test Information

Test Method: LM-79-2019
Report Number: P624218
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-935-U-77
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Nema 7 distribution lens
Light Source: (96) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

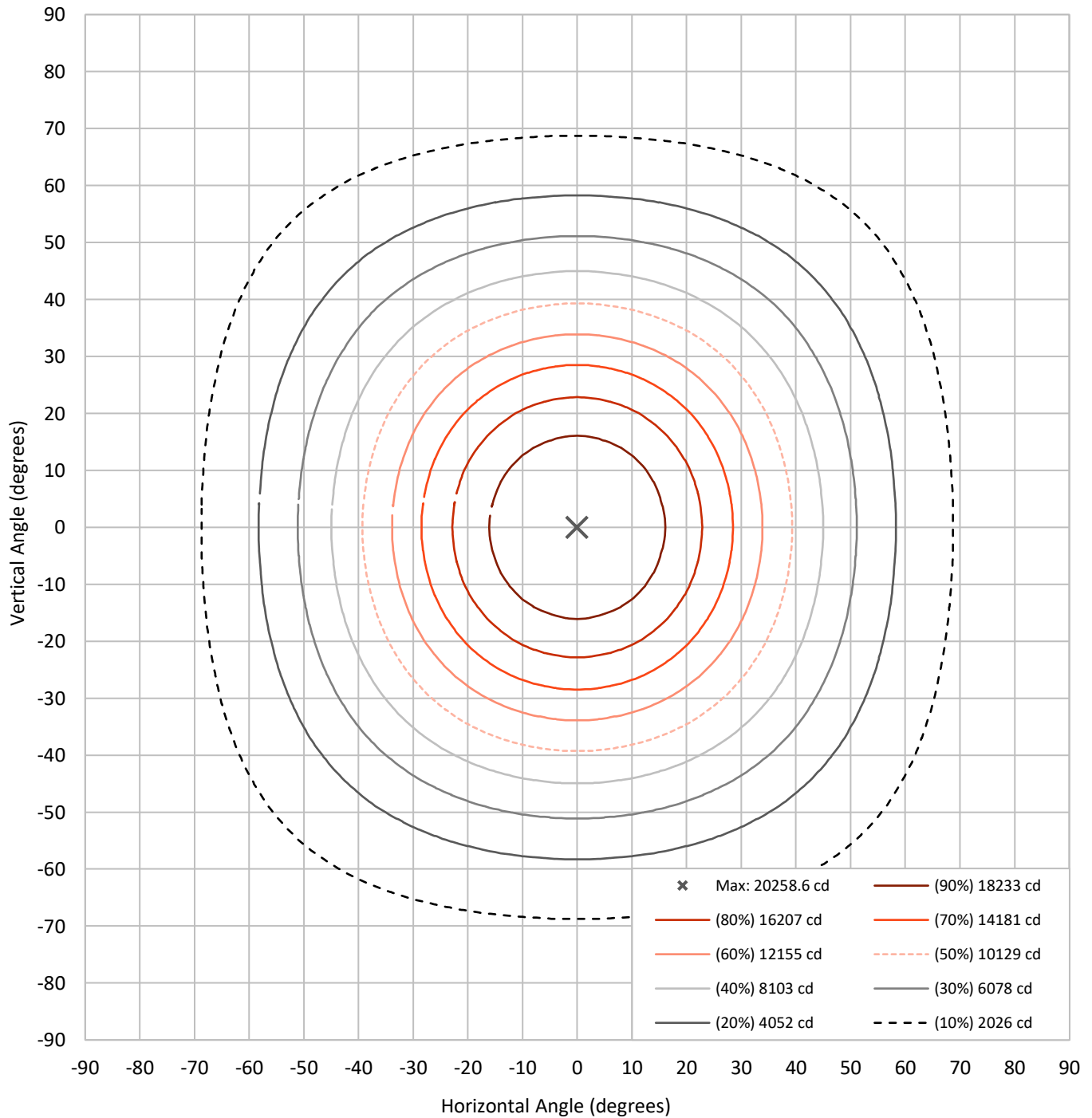
Lumens per Lamp:	N/A	NEMA Type:	7H x 7V
Luminaire Lumens:	36476 lumens	Max Intensity:	20258.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	78.6 lumens/watt		
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')		
Beam Angle (50%):	78.6°H x 78.6°V	Field Angle (10%):	137.5°H x 137.5°V
Beam Lumens:	15782.8 lumens	Field Lumens:	25843.8 lumens
Beam Efficiency:	43.3%	Field Efficiency:	70.9%

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





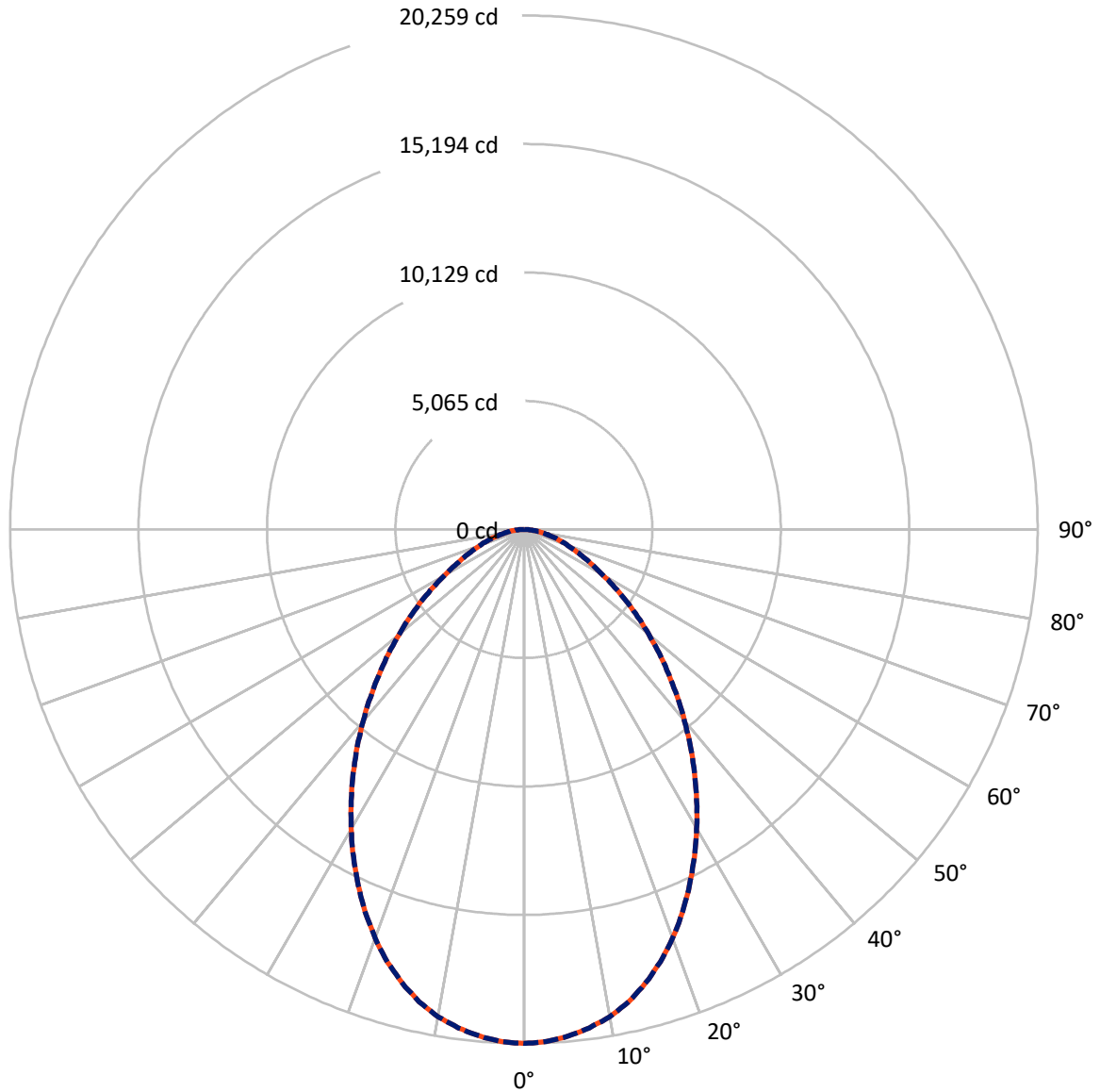
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Lumen Table

90	3.1	21.4	53.1	84.0	96.9	84.0	53.1	21.4	3.1							
80	3.1	21.4	53.1	84.0	96.9	84.0	53.1	21.4	3.1							
70	9.7	10.0	20.1	33.0	47.4	61.5	73.1	79.6	79.6	73.1	61.5	47.4	33.0	20.1	10.0	9.7
60		14.9	30.9	52.7	80.2	109.6	134.5	148.7	148.7	134.5	109.6	80.2	52.7	30.9	14.9	
50	16.2	20.0	42.9	78.8	126.2	176.2	218.4	242.6	242.6	218.4	176.2	126.2	78.8	42.9	20.0	16.2
40		24.8	56.6	109.2	177.8	251.1	314.1	351.0	351.0	314.1	251.1	177.8	109.2	56.6	24.8	
30	21.2	29.2	70.0	138.1	227.3	324.9	410.4	460.9	460.9	410.4	324.9	227.3	138.1	70.0	29.2	21.2
20		32.6	80.7	160.7	267.1	385.5	490.3	551.0	551.0	490.3	385.5	267.1	160.7	80.7	32.6	
10	23.1	34.4	86.6	173.2	289.5	419.9	534.5	597.8	597.8	534.5	419.9	289.5	173.2	86.6	34.4	23.1
0		34.4	86.6	173.2	289.5	419.9	534.5	597.8	597.8	534.5	419.9	289.5	173.2	86.6	34.4	
-10	21.2	32.6	80.7	160.7	267.1	385.5	490.3	551.0	551.0	490.3	385.5	267.1	160.7	80.7	32.6	21.2
-20		29.2	70.0	138.1	227.3	324.9	410.4	460.9	460.9	410.4	324.9	227.3	138.1	70.0	29.2	
-30	16.2	24.8	56.6	109.2	177.8	251.1	314.1	351.0	351.0	314.1	251.1	177.8	109.2	56.6	24.8	16.2
-40		20.0	42.9	78.8	126.2	176.2	218.4	242.6	242.6	218.4	176.2	126.2	78.8	42.9	20.0	
-50	9.7	14.9	30.9	52.7	80.2	109.6	134.5	148.7	148.7	134.5	109.6	80.2	52.7	30.9	14.9	9.7
-60		10.0	20.1	33.0	47.4	61.5	73.1	79.6	79.6	73.1	61.5	47.4	33.0	20.1	10.0	
-70	3.1	21.4	53.1	84.0	96.9	84.0	53.1	21.4	3.1							
-80		3.1	21.4	53.1	84.0	96.9	84.0	53.1	21.4	3.1						
-90	3.1	21.4	53.1	84.0	96.9	84.0	53.1	21.4	3.1							

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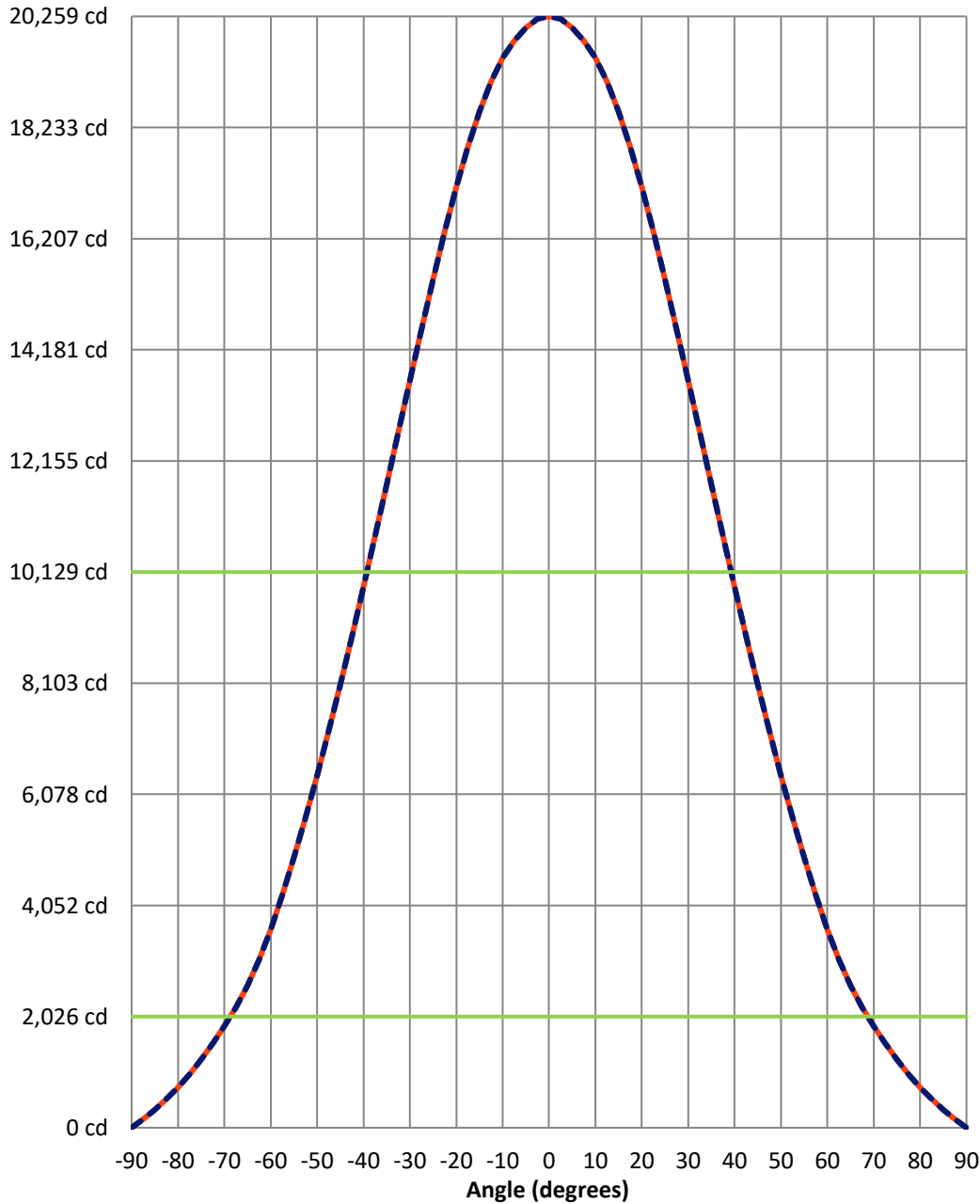
Luminous Intensity Polar Plot



— 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: 15782.8
 Efficiency: 43.3%

Field:
 H Angle: 137.5°
 V Angle: 137.5°
 Lumens: 25843.8
 Efficiency: 70.9%

Spill:
 Lumens: 10632.2
 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°	155.9	155.9	155.9	155.9	155.9	155.9	155.9	148.3	148.3	144.5	140.7
85°	327.1	327.1	327.1	327.1	327.1	319.5	315.6	311.8	308.0	300.4	296.6
82.5°	524.8	524.8	524.8	524.8	517.2	509.6	505.8	498.2	490.6	479.2	467.8
80°	734.0	734.0	734.0	734.0	722.6	715.0	703.6	695.9	684.5	669.3	654.1
77.5°	973.6	973.6	973.6	962.2	954.6	943.1	931.7	916.5	901.3	882.3	859.5
75°	1243.6	1243.6	1243.6	1228.4	1217.0	1205.5	1186.5	1167.5	1144.7	1118.1	1087.7
72.5°	1536.4	1536.4	1536.4	1517.4	1506.0	1487.0	1464.2	1437.5	1410.9	1376.7	1338.7
70°	1852.1	1852.1	1852.1	1829.2	1810.2	1791.2	1760.8	1730.4	1692.3	1654.3	1608.7
67.5°	2194.3	2194.3	2194.3	2167.7	2144.9	2118.3	2084.0	2046.0	2000.4	1947.1	1893.9
65°	2593.6	2593.6	2578.4	2555.6	2529.0	2491.0	2449.1	2395.9	2338.8	2270.4	2198.1
62.5°	3065.2	3065.2	3042.4	3015.8	2981.5	2932.1	2875.1	2806.6	2726.7	2639.3	2551.8
60°	3612.8	3612.8	3586.2	3552.0	3502.6	3441.7	3365.7	3278.2	3179.3	3069.0	2962.5
57.5°	4244.1	4244.1	4209.9	4164.3	4103.4	4027.4	3932.3	3822.0	3696.5	3559.6	3426.5
55°	4928.7	4928.7	4886.9	4833.6	4761.4	4670.1	4556.0	4426.7	4274.6	4118.6	3947.5
52.5°	5655.1	5655.1	5605.6	5544.8	5461.1	5354.6	5225.3	5073.2	4898.3	4715.7	4514.2
50°	6419.5	6419.5	6362.4	6294.0	6198.9	6073.4	5925.1	5750.1	5556.2	5343.2	5111.2
47.5°	7237.1	7237.1	7172.5	7092.6	6978.5	6834.0	6659.0	6457.5	6236.9	5997.3	5734.9
45°	8077.6	8077.6	8005.3	7914.0	7788.5	7625.0	7431.1	7237.1	6955.7	6678.1	6373.8
42.5°	8952.3	8952.3	8868.6	8765.9	8621.4	8442.7	8222.1	7971.1	7693.5	7381.6	7050.8
40°	9861.2	9861.2	9766.1	9648.2	9488.5	9283.1	9035.9	8754.5	8442.7	8096.6	7731.5
37.5°	10789.1	10789.1	10682.6	10553.3	10374.6	10146.4	9868.8	9556.9	9207.1	8823.0	8419.8
35°	11724.6	11724.6	11606.7	11466.0	11268.3	11017.3	10716.8	10370.8	9982.9	9564.5	9112.0
32.5°	12679.2	12679.2	12549.9	12390.2	12165.8	11888.2	11557.3	11180.8	10789.1	10302.3	9807.9
30°	13622.3	13622.3	13481.6	13306.7	13067.1	12762.9	12401.6	11987.0	11526.9	11028.7	10496.3
27.5°	14550.3	14512.2	14394.3	14208.0	13945.6	13622.3	13230.6	12781.9	12283.7	11736.0	11165.6
25°	15463.0	15421.2	15291.8	15086.5	14805.1	14451.4	14029.3	13550.1	13013.9	12435.8	11812.1
22.5°	16337.7	16292.0	16155.1	15934.6	15634.1	15250.0	14797.5	14284.1	13713.6	13093.7	12435.8
20°	17147.7	17098.3	16957.6	16725.6	16413.7	16006.8	15527.6	14976.2	14367.7	13713.6	13013.9
17.5°	17877.9	17828.4	17680.1	17440.5	17147.7	16695.2	16200.8	15618.9	14976.2	14284.1	13550.1
15°	18520.6	18467.4	18315.2	18075.6	17741.0	17315.0	16794.0	16200.8	15527.6	14797.5	14029.3
12.5°	19068.2	19015.0	18859.1	18619.5	18273.4	17847.5	17315.0	16695.2	16006.8	15250.0	14451.4
10°	19501.8	19448.5	19300.2	19072.0	18714.5	18273.4	17741.0	17147.7	16413.7	15634.1	14805.1
7.5°	19813.6	19764.2	19627.3	19399.1	19072.0	18619.5	18075.6	17440.5	16725.6	15934.6	15086.5
5°	20049.4	19992.4	19855.4	19627.3	19300.2	18859.1	18315.2	17680.1	16957.6	16155.1	15291.8
2.5°	20212.9	20144.5	19992.4	19764.2	19448.5	19015.0	18467.4	17828.4	17098.3	16292.0	15421.2
0°	20258.6	20212.9	20049.4	19813.6	19501.8	19068.2	18520.6	17877.9	17147.7	16337.7	15463.0



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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°	136.9	136.9	133.1	129.3	125.5	117.9	114.1	110.3	106.5	98.9	95.1
85°	289.0	281.4	273.8	266.2	254.8	247.2	235.8	228.2	216.8	205.4	194.0
82.5°	456.4	445.0	429.7	418.3	403.1	384.1	368.9	349.9	330.9	315.6	296.6
80°	638.9	619.9	600.9	581.9	559.0	536.2	513.4	490.6	464.0	437.3	410.7
77.5°	836.7	810.0	783.4	753.0	726.4	695.9	665.5	635.1	600.9	566.6	532.4
75°	1057.2	1023.0	985.0	946.9	912.7	870.9	829.1	787.2	741.6	699.8	654.1
72.5°	1296.8	1255.0	1209.4	1163.7	1114.3	1061.0	1007.8	950.7	897.5	844.3	787.2
70°	1555.4	1506.0	1448.9	1391.9	1331.0	1266.4	1201.7	1133.3	1064.8	996.4	927.9
67.5°	1833.0	1772.2	1703.7	1635.3	1559.2	1483.2	1407.1	1327.2	1243.6	1159.9	1080.1
65°	2129.7	2053.6	1973.8	1886.3	1798.8	1711.3	1620.1	1525.0	1429.9	1331.0	1243.6
62.5°	2460.5	2365.5	2262.8	2156.3	2057.4	1950.9	1852.1	1734.2	1620.1	1509.8	1399.5
60°	2844.6	2719.1	2593.6	2460.5	2335.0	2198.1	2076.4	1947.1	1817.8	1692.3	1563.0
57.5°	3274.4	3114.7	2962.5	2802.8	2635.5	2483.4	2327.4	2171.5	2027.0	1878.7	1738.0
55°	3761.2	3567.2	3377.1	3179.3	2985.4	2795.2	2597.4	2422.5	2243.8	2076.4	1912.9
52.5°	4293.6	4073.0	3837.2	3612.8	3365.7	3129.9	2909.3	2688.7	2479.6	2278.0	2091.6
50°	4864.0	4605.4	4335.4	4061.6	3780.2	3502.6	3236.3	2977.7	2734.4	2498.6	2278.0
47.5°	5457.3	5164.5	4856.4	4544.6	4244.1	3905.7	3586.2	3293.4	3000.6	2734.4	2479.6
45°	6065.8	5734.9	5396.5	5042.8	4689.1	4324.0	3970.3	3612.8	3293.4	2977.7	2688.7
42.5°	6693.3	6320.6	5944.1	5552.4	5160.7	4761.4	4362.0	3970.3	3586.2	3236.3	2909.3
40°	7339.8	6929.1	6499.3	6073.4	5655.1	5198.7	4761.4	4324.0	3905.7	3502.6	3129.9
37.5°	7986.3	7537.5	7073.6	6594.4	6115.2	5655.1	5160.7	4689.1	4244.1	3780.2	3365.7
35°	8636.6	8142.2	7640.2	7119.2	6594.4	6073.4	5552.4	5042.8	4544.6	4061.6	3612.8
32.5°	9290.7	8750.7	8195.5	7640.2	7073.6	6499.3	5944.1	5396.5	4856.4	4335.4	3837.2
30°	9933.4	9347.8	8750.7	8142.2	7537.5	6929.1	6320.6	5734.9	5164.5	4605.4	4073.0
27.5°	10560.9	9933.4	9290.7	8636.6	7986.3	7339.8	6693.3	6065.8	5457.3	4864.0	4293.6
25°	11165.6	10496.3	9807.9	9112.0	8419.8	7731.5	7050.8	6373.8	5734.9	5111.2	4514.2
22.5°	11736.0	11028.7	10302.3	9564.5	8823.0	8096.6	7381.6	6678.1	5997.3	5343.2	4715.7
20°	12283.7	11526.9	10789.1	9982.9	9207.1	8442.7	7693.5	6955.7	6236.9	5556.2	4898.3
17.5°	12781.9	11987.0	11180.8	10370.8	9556.9	8754.5	7971.1	7237.1	6457.5	5750.1	5073.2
15°	13230.6	12401.6	11557.3	10716.8	9868.8	9035.9	8222.1	7431.1	6659.0	5925.1	5225.3
12.5°	13622.3	12762.9	11888.2	11017.3	10146.4	9283.1	8442.7	7625.0	6834.0	6073.4	5354.6
10°	13945.6	13067.1	12165.8	11268.3	10374.6	9488.5	8621.4	7788.5	6978.5	6198.9	5461.1
7.5°	14208.0	13306.7	12390.2	11466.0	10553.3	9648.2	8765.9	7914.0	7092.6	6294.0	5544.8
5°	14394.3	13481.6	12549.9	11606.7	10682.6	9766.1	8868.6	8005.3	7172.5	6362.4	5605.6
2.5°	14512.2	13622.3	12679.2	11724.6	10789.1	9861.2	8952.3	8077.6	7237.1	6419.5	5655.1
0°	14550.3	13622.3	12679.2	11724.6	10789.1	9861.2	8952.3	8077.6	7237.1	6419.5	5655.1



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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°	91.3	83.7	76.1	72.3	64.7	60.8	53.2	45.6	41.8	34.2	26.6
85°	182.5	167.3	155.9	144.5	133.1	117.9	106.5	95.1	79.9	68.5	53.2
82.5°	277.6	258.6	239.6	220.6	201.6	182.5	159.7	140.7	121.7	102.7	79.9
80°	384.1	353.7	327.1	300.4	273.8	247.2	216.8	190.1	159.7	133.1	106.5
77.5°	494.4	460.2	422.1	384.1	346.1	311.8	273.8	239.6	205.4	167.3	133.1
75°	612.3	566.6	524.8	475.4	429.7	380.3	334.7	289.0	247.2	205.4	159.7
72.5°	734.0	676.9	619.9	566.6	509.6	452.6	399.3	342.3	289.0	239.6	190.1
70°	859.5	791.0	722.6	657.9	593.3	524.8	464.0	399.3	334.7	273.8	216.8
67.5°	992.6	912.7	832.9	749.2	676.9	600.9	524.8	452.6	380.3	311.8	247.2
65°	1137.1	1042.0	943.1	855.7	760.6	676.9	593.3	509.6	429.7	346.1	273.8
62.5°	1285.4	1175.1	1064.8	954.6	855.7	749.2	657.9	566.6	475.4	384.1	300.4
60°	1437.5	1312.0	1186.5	1064.8	943.1	832.9	722.6	619.9	524.8	422.1	327.1
57.5°	1593.5	1452.7	1312.0	1175.1	1042.0	912.7	791.0	676.9	566.6	460.2	353.7
55°	1753.2	1593.5	1437.5	1285.4	1137.1	992.6	859.5	734.0	612.3	494.4	384.1
52.5°	1912.9	1738.0	1563.0	1399.5	1243.6	1080.1	927.9	787.2	654.1	532.4	410.7
50°	2076.4	1878.7	1692.3	1509.8	1331.0	1159.9	996.4	844.3	699.8	566.6	437.3
47.5°	2243.8	2027.0	1817.8	1620.1	1429.9	1243.6	1064.8	897.5	741.6	600.9	464.0
45°	2422.5	2171.5	1947.1	1734.2	1525.0	1327.2	1133.3	950.7	787.2	635.1	490.6
42.5°	2597.4	2327.4	2076.4	1852.1	1620.1	1407.1	1201.7	1007.8	829.1	665.5	513.4
40°	2795.2	2483.4	2198.1	1950.9	1711.3	1483.2	1266.4	1061.0	870.9	695.9	536.2
37.5°	2985.4	2635.5	2335.0	2057.4	1798.8	1559.2	1331.0	1114.3	912.7	726.4	559.0
35°	3179.3	2802.8	2460.5	2156.3	1886.3	1635.3	1391.9	1163.7	946.9	753.0	581.9
32.5°	3377.1	2962.5	2593.6	2262.8	1973.8	1703.7	1448.9	1209.4	985.0	783.4	600.9
30°	3567.2	3114.7	2719.1	2365.5	2053.6	1772.2	1506.0	1255.0	1023.0	810.0	619.9
27.5°	3761.2	3274.4	2844.6	2460.5	2129.7	1833.0	1555.4	1296.8	1057.2	836.7	638.9
25°	3947.5	3426.5	2962.5	2551.8	2198.1	1893.9	1608.7	1338.7	1087.7	859.5	654.1
22.5°	4118.6	3559.6	3069.0	2639.3	2270.4	1947.1	1654.3	1376.7	1118.1	882.3	669.3
20°	4274.6	3696.5	3179.3	2726.7	2338.8	2000.4	1692.3	1410.9	1144.7	901.3	684.5
17.5°	4426.7	3822.0	3278.2	2806.6	2395.9	2046.0	1730.4	1437.5	1167.5	916.5	695.9
15°	4556.0	3932.3	3365.7	2875.1	2449.1	2084.0	1760.8	1464.2	1186.5	931.7	703.6
12.5°	4670.1	4027.4	3441.7	2932.1	2491.0	2118.3	1791.2	1487.0	1205.5	943.1	715.0
10°	4761.4	4103.4	3502.6	2981.5	2529.0	2144.9	1810.2	1506.0	1217.0	954.6	722.6
7.5°	4833.6	4164.3	3552.0	3015.8	2555.6	2167.7	1829.2	1517.4	1228.4	962.2	734.0
5°	4886.9	4209.9	3586.2	3042.4	2578.4	2194.3	1852.1	1536.4	1243.6	973.6	734.0
2.5°	4928.7	4244.1	3612.8	3065.2	2593.6	2194.3	1852.1	1536.4	1243.6	973.6	734.0
0°	4928.7	4244.1	3612.8	3065.2	2593.6	2194.3	1852.1	1536.4	1243.6	973.6	734.0



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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	19.0	15.2	7.6	0.0
85°	41.8	26.6	15.2	0.0
82.5°	60.8	41.8	19.0	0.0
80°	79.9	53.2	26.6	0.0
77.5°	102.7	68.5	34.2	0.0
75°	121.7	79.9	41.8	0.0
72.5°	140.7	95.1	45.6	0.0
70°	159.7	106.5	53.2	0.0
67.5°	182.5	117.9	60.8	0.0
65°	201.6	133.1	64.7	0.0
62.5°	220.6	144.5	72.3	0.0
60°	239.6	155.9	76.1	0.0
57.5°	258.6	167.3	83.7	0.0
55°	277.6	182.5	91.3	0.0
52.5°	296.6	194.0	95.1	0.0
50°	315.6	205.4	98.9	0.0
47.5°	330.9	216.8	106.5	0.0
45°	349.9	228.2	110.3	0.0
42.5°	368.9	235.8	114.1	0.0
40°	384.1	247.2	117.9	0.0
37.5°	403.1	254.8	125.5	0.0
35°	418.3	266.2	129.3	0.0
32.5°	429.7	273.8	133.1	0.0
30°	445.0	281.4	136.9	0.0
27.5°	456.4	289.0	136.9	0.0
25°	467.8	296.6	140.7	0.0
22.5°	479.2	300.4	144.5	0.0
20°	490.6	308.0	148.3	0.0
17.5°	498.2	311.8	148.3	0.0
15°	505.8	315.6	155.9	0.0
12.5°	509.6	319.5	155.9	0.0
10°	517.2	327.1	155.9	0.0
7.5°	524.8	327.1	155.9	0.0
5°	524.8	327.1	155.9	0.0
2.5°	524.8	327.1	155.9	0.0
0°	524.8	327.1	155.9	0.0

(END OF REPORT)