

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: P624165

Luminaire Tested: **EPH-VN-07-E-935-U-55**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P624165  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-07-E-935-U-55  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 5 distribution lens  
Light Source: (112) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

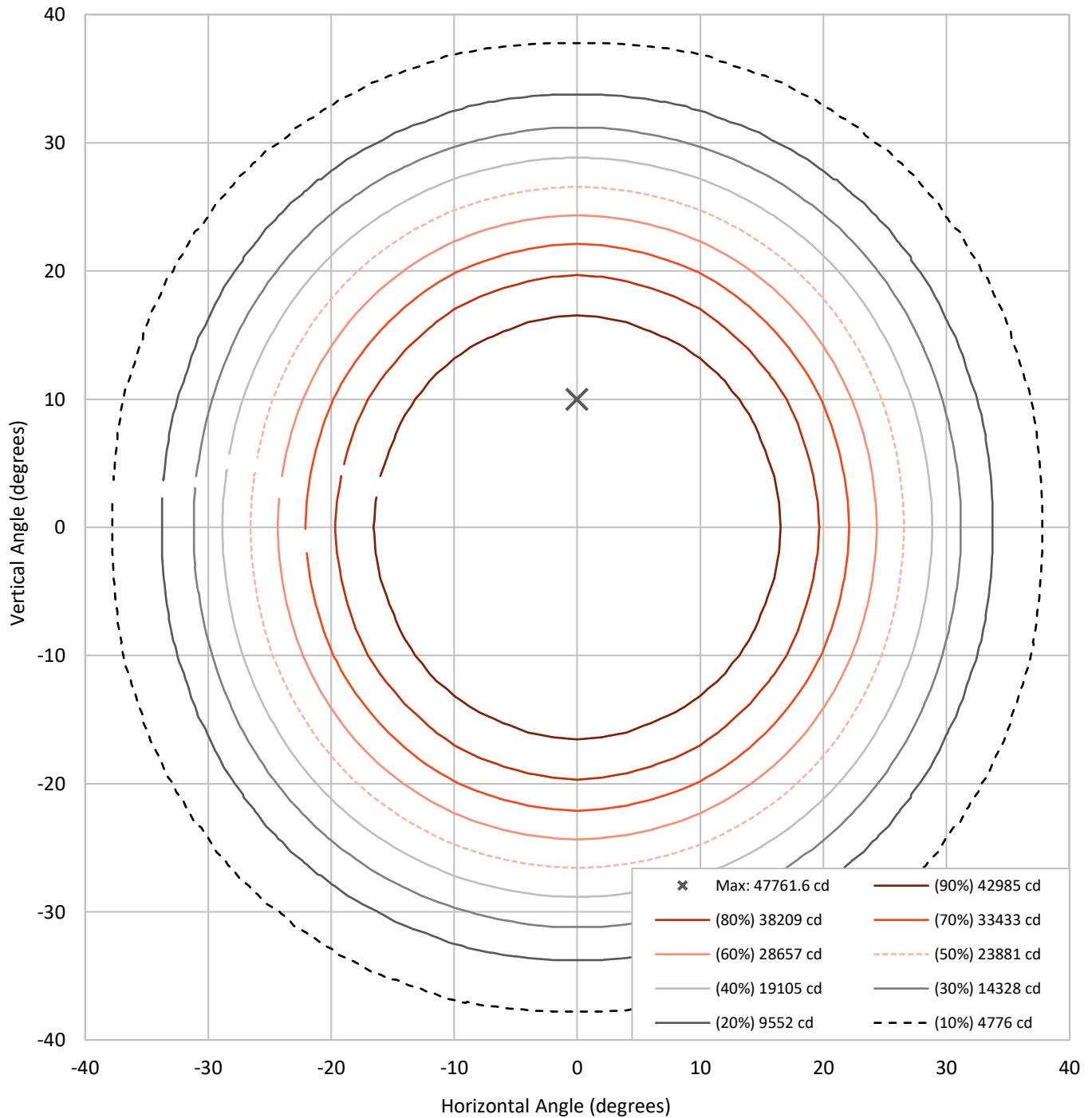
Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	39083.5 lumens	Max Intensity:	47761.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	73.4 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	19425.4 lumens	Field Lumens:	25263.4 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

Input Watts (W): 532.7  
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





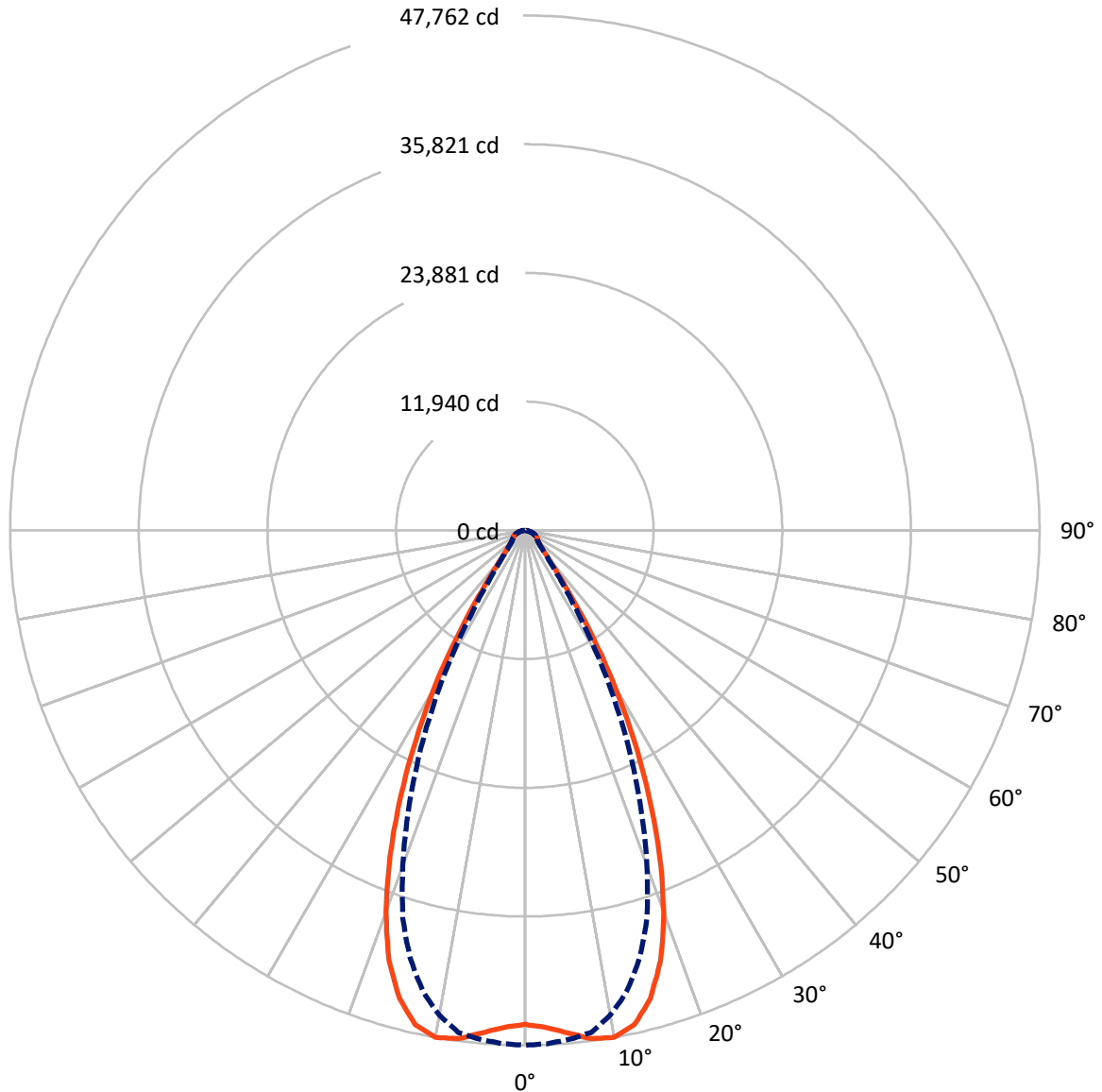
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### Lumen Table

90	1.1	8.6	22.3	36.1	41.8	36.1	22.3	8.6	1.1							
80	1.1	8.6	22.3	36.1	41.8	36.1	22.3	8.6	1.1							
70	3.9	4.2	8.8	14.6	20.5	25.6	29.3	31.3	31.3	29.3	25.6	20.5	14.6	8.8	4.2	3.9
60		6.6	13.5	21.4	28.8	35.0	39.7	42.4	42.4	39.7	35.0	28.8	21.4	13.5	6.6	
50	6.9	8.8	17.4	26.4	35.4	45.8	58.0	67.3	67.3	58.0	45.8	35.4	26.4	17.4	8.8	6.9
40		10.7	20.2	30.6	46.4	82.6	161.3	243.3	243.3	161.3	82.6	46.4	30.6	20.2	10.7	
30	9.2	12.1	22.2	35.9	75.0	238.8	553.3	785.3	785.3	553.3	238.8	75.0	35.9	22.2	12.1	9.2
20		13.0	23.7	42.7	138.3	521.2	1019.7	1300.0	1300.0	1019.7	521.2	138.3	42.7	23.7	13.0	
10	10.1	13.4	24.5	48.3	203.0	718.0	1261.5	1430.6	1430.6	1261.5	718.0	203.0	48.3	24.5	13.4	10.1
0		13.4	24.5	48.3	203.0	718.0	1261.5	1430.6	1430.6	1261.5	718.0	203.0	48.3	24.5	13.4	
-10	9.2	13.0	23.7	42.7	138.3	521.2	1019.7	1300.0	1300.0	1019.7	521.2	138.3	42.7	23.7	13.0	9.2
-20		12.1	22.2	35.9	75.0	238.8	553.3	785.3	785.3	553.3	238.8	75.0	35.9	22.2	12.1	
-30	6.9	10.7	20.2	30.6	46.4	82.6	161.3	243.3	243.3	161.3	82.6	46.4	30.6	20.2	10.7	6.9
-40		8.8	17.4	26.4	35.4	45.8	58.0	67.3	67.3	58.0	45.8	35.4	26.4	17.4	8.8	
-50	3.9	6.6	13.5	21.4	28.8	35.0	39.7	42.4	42.4	39.7	35.0	28.8	21.4	13.5	6.6	3.9
-60		4.2	8.8	14.6	20.5	25.6	29.3	31.3	31.3	29.3	25.6	20.5	14.6	8.8	4.2	
-70	1.1	8.6	22.3	36.1	41.8	36.1	22.3	8.6	1.1							
-80		1.1	8.6	22.3	36.1	41.8	36.1	22.3	8.6	1.1						
-90	1.1	8.6	22.3	36.1	41.8	36.1	22.3	8.6	1.1							

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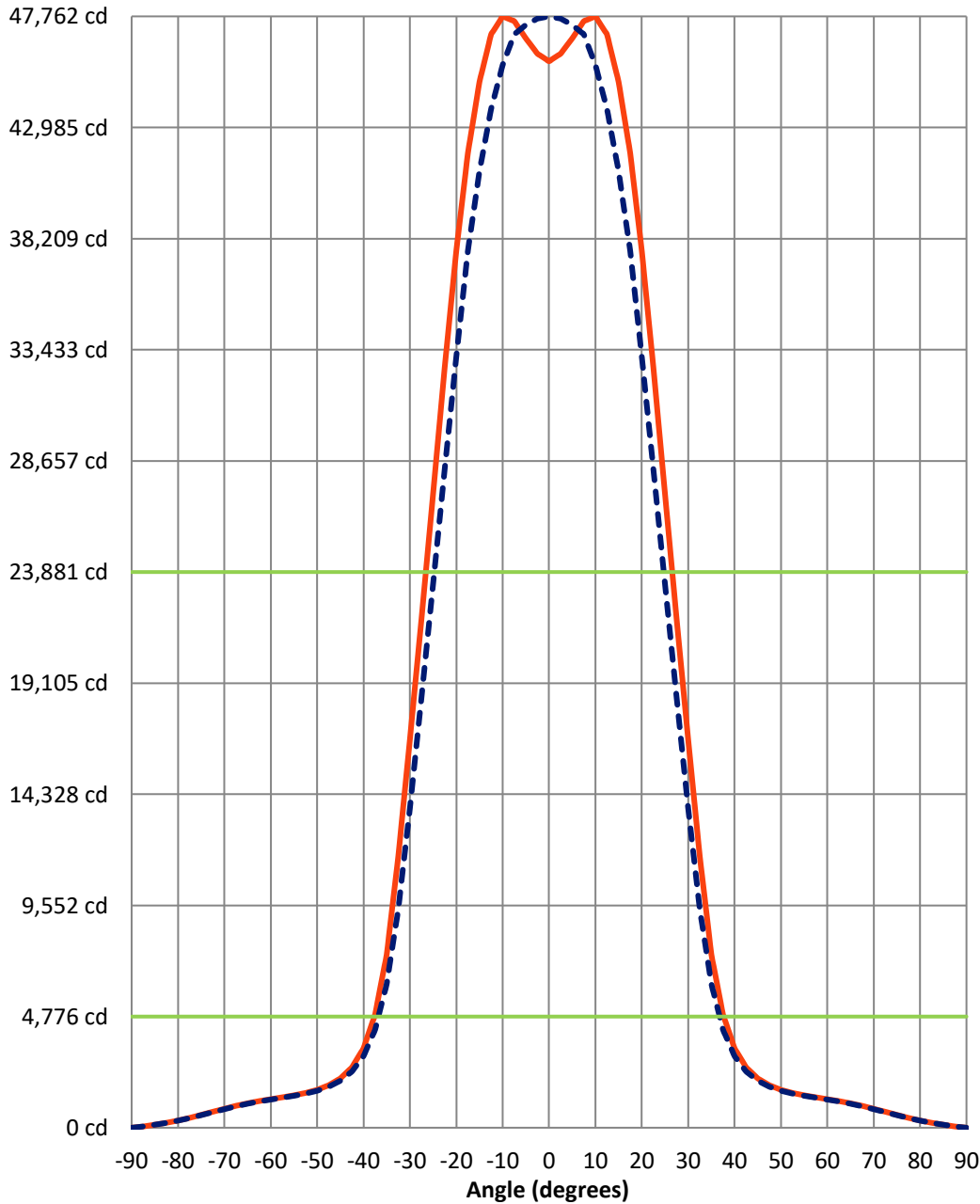
### Luminous Intensity Polar Plot



— 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: 19425.4  
 Efficiency: 49.7%

**Field:**  
 H Angle: 73.6°  
 V Angle: 75.3°  
 Lumens: 25263.4  
 Efficiency: 64.6%

**Spill:**  
 Lumens: 13820.1  
 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°	52.8	52.8	52.8	52.8	52.8	52.8	52.8	48.7	48.7	48.7	48.7
85°	129.9	129.9	129.9	129.9	129.9	125.9	125.9	121.8	121.8	117.7	113.7
82.5°	211.1	211.1	211.1	211.1	207.1	207.1	203.0	198.9	194.9	190.8	186.8
80°	308.6	308.6	308.6	308.6	304.5	300.4	296.4	292.3	284.2	280.1	272.0
77.5°	422.2	422.2	422.2	418.2	414.1	410.1	401.9	393.8	385.7	377.6	369.5
75°	552.2	552.2	552.2	544.0	540.0	531.9	523.7	515.6	503.4	491.3	479.1
72.5°	686.1	686.1	686.1	678.0	669.9	661.8	653.7	641.5	629.3	613.1	596.8
70°	812.0	812.0	812.0	803.9	795.8	787.6	775.5	763.3	747.0	730.8	714.6
67.5°	941.9	941.9	941.9	929.7	921.6	913.5	901.3	885.1	868.8	848.5	828.2
65°	1047.5	1047.5	1043.4	1039.4	1031.2	1019.1	1010.9	994.7	978.5	962.2	941.9
62.5°	1144.9	1144.9	1140.9	1136.8	1128.7	1116.5	1104.3	1092.1	1075.9	1055.6	1035.3
60°	1226.1	1226.1	1222.1	1218.0	1209.9	1201.8	1189.6	1177.4	1161.2	1144.9	1124.6
57.5°	1307.3	1307.3	1303.3	1299.2	1291.1	1278.9	1266.7	1254.5	1238.3	1218.0	1197.7
55°	1392.6	1392.6	1388.5	1380.4	1372.3	1360.1	1347.9	1331.7	1311.4	1291.1	1270.8
52.5°	1494.1	1494.1	1486.0	1477.8	1465.7	1453.5	1433.2	1412.9	1388.5	1364.2	1339.8
50°	1628.1	1628.1	1619.9	1607.8	1587.5	1567.2	1542.8	1510.3	1481.9	1449.4	1416.9
47.5°	1827.0	1827.0	1810.7	1790.4	1762.0	1729.6	1684.9	1636.2	1595.6	1555.0	1506.3
45°	2119.3	2119.3	2094.9	2062.5	2017.8	1961.0	1896.0	1827.0	1758.0	1689.0	1619.9
42.5°	2594.3	2594.3	2549.7	2492.8	2415.7	2318.2	2196.4	2082.8	1985.3	1875.7	1782.3
40°	3414.4	3414.4	3329.2	3223.6	3077.5	2890.7	2667.4	2488.8	2318.2	2127.4	1997.5
37.5°	4872.0	4872.0	4705.5	4502.5	4218.3	3861.0	3430.7	3142.4	2825.7	2525.3	2306.1
35°	7446.0	7446.0	7125.3	6731.4	6183.3	5493.1	4758.3	4214.3	3609.3	3146.5	2736.4
32.5°	11668.4	11668.4	11091.9	10381.4	9402.9	8164.6	6987.2	5951.9	4872.0	4104.6	3365.7
30°	16686.5	16686.5	15931.3	15001.6	13726.8	12119.0	10442.3	8603.1	6897.9	5529.7	4413.2
27.5°	21875.2	21660.0	21010.4	19950.7	18497.3	16686.5	14595.6	12220.5	9914.5	7502.8	5907.3
25°	27242.4	26990.7	26247.8	25029.8	23365.2	21314.9	18960.1	16304.9	13458.8	10584.4	7823.6
22.5°	32666.6	32382.4	31537.9	30161.6	28294.0	25996.0	23328.6	20377.0	17198.1	13877.0	10584.4
20°	37680.6	37380.2	36495.1	35062.0	33129.4	30608.2	27644.4	24372.0	20856.1	17198.1	13458.8
17.5°	41878.7	41590.4	40737.8	39369.6	37680.6	34891.4	31809.9	28212.8	24372.0	20377.0	16304.9
15°	44943.9	44696.3	43969.5	42820.6	41099.1	38630.7	35492.3	31809.9	27644.4	23328.6	18960.1
12.5°	46978.0	46779.1	46206.6	45313.4	43770.6	41700.0	38630.7	34891.4	30608.2	25996.0	21314.9
10°	47761.6	47664.1	47396.2	46986.1	45670.7	43770.6	41099.1	37680.6	33129.4	28294.0	23365.2
7.5°	47554.5	47587.0	47680.4	47574.8	46986.1	45313.4	42820.6	39369.6	35062.0	30161.6	25029.8
5°	46815.6	46990.2	47424.6	47680.4	47396.2	46206.6	43969.5	40737.8	36495.1	31537.9	26247.8
2.5°	46157.9	46429.9	46990.2	47587.0	47664.1	46779.1	44696.3	41590.4	37380.2	32382.4	26990.7
0°	45833.1	46157.9	46815.6	47554.5	47761.6	46978.0	44943.9	41878.7	37680.6	32666.6	27242.4



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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°	48.7	44.7	44.7	44.7	40.6	40.6	40.6	36.5	36.5	32.5	32.5
85°	113.7	109.6	105.6	101.5	97.4	93.4	89.3	85.3	81.2	73.1	69.0
82.5°	182.7	178.6	174.6	166.5	162.4	154.3	146.2	138.0	129.9	125.9	117.7
80°	263.9	255.8	247.7	239.5	227.4	215.2	207.1	194.9	186.8	174.6	166.5
77.5°	357.3	345.1	332.9	316.7	304.5	292.3	276.1	263.9	247.7	231.4	215.2
75°	462.8	446.6	426.3	410.1	393.8	373.5	353.2	332.9	312.6	292.3	272.0
72.5°	576.5	556.2	535.9	515.6	491.3	462.8	438.5	410.1	385.7	361.3	332.9
70°	694.3	669.9	645.5	621.2	592.8	560.3	531.9	499.4	466.9	434.4	401.9
67.5°	803.9	779.5	751.1	726.7	694.3	661.8	625.2	588.7	552.2	511.6	471.0
65°	917.6	889.1	856.7	824.2	791.7	755.2	718.6	682.1	637.4	592.8	552.2
62.5°	1010.9	986.6	958.2	925.7	889.1	848.5	812.0	763.3	718.6	674.0	621.2
60°	1100.3	1071.8	1047.5	1010.9	978.5	941.9	897.3	848.5	799.8	747.0	698.3
57.5°	1177.4	1153.0	1124.6	1092.1	1055.6	1019.1	978.5	933.8	877.0	824.2	767.3
55°	1246.4	1218.0	1189.6	1161.2	1128.7	1088.1	1047.5	1002.8	954.1	897.3	836.4
52.5°	1315.4	1287.0	1254.5	1226.1	1189.6	1153.0	1112.4	1067.8	1019.1	966.3	901.3
50°	1384.5	1352.0	1319.5	1283.0	1246.4	1209.9	1169.3	1128.7	1075.9	1023.1	966.3
47.5°	1465.7	1425.1	1384.5	1343.9	1307.3	1262.7	1222.1	1177.4	1132.7	1075.9	1019.1
45°	1567.2	1506.3	1457.5	1408.8	1364.2	1319.5	1270.8	1226.1	1177.4	1128.7	1067.8
42.5°	1693.0	1611.8	1546.9	1481.9	1425.1	1372.3	1323.6	1270.8	1222.1	1169.3	1112.4
40°	1863.5	1753.9	1648.4	1567.2	1494.1	1429.1	1372.3	1319.5	1262.7	1209.9	1153.0
37.5°	2086.8	1932.5	1786.4	1668.7	1575.3	1494.1	1425.1	1364.2	1307.3	1246.4	1189.6
35°	2423.8	2155.8	1969.1	1798.6	1668.7	1567.2	1481.9	1408.8	1343.9	1283.0	1226.1
32.5°	2898.8	2484.7	2184.3	1969.1	1786.4	1648.4	1546.9	1457.5	1384.5	1319.5	1254.5
30°	3524.1	2951.6	2484.7	2155.8	1932.5	1753.9	1611.8	1506.3	1425.1	1352.0	1287.0
27.5°	4514.7	3524.1	2898.8	2423.8	2086.8	1863.5	1693.0	1567.2	1465.7	1384.5	1315.4
25°	5907.3	4413.2	3365.7	2736.4	2306.1	1997.5	1782.3	1619.9	1506.3	1416.9	1339.8
22.5°	7502.8	5529.7	4104.6	3146.5	2525.3	2127.4	1875.7	1689.0	1555.0	1449.4	1364.2
20°	9914.5	6897.9	4872.0	3609.3	2825.7	2318.2	1985.3	1758.0	1595.6	1481.9	1388.5
17.5°	12220.5	8603.1	5951.9	4214.3	3142.4	2488.8	2082.8	1827.0	1636.2	1510.3	1412.9
15°	14595.6	10442.3	6987.2	4758.3	3430.7	2667.4	2196.4	1896.0	1684.9	1542.8	1433.2
12.5°	16686.5	12119.0	8164.6	5493.1	3861.0	2890.7	2318.2	1961.0	1729.6	1567.2	1453.5
10°	18497.3	13726.8	9402.9	6183.3	4218.3	3077.5	2415.7	2017.8	1762.0	1587.5	1465.7
7.5°	19950.7	15001.6	10381.4	6731.4	4502.5	3223.6	2492.8	2062.5	1790.4	1607.8	1477.8
5°	21010.4	15931.3	11091.9	7125.3	4705.5	3329.2	2549.7	2094.9	1810.7	1619.9	1486.0
2.5°	21660.0	16686.5	11668.4	7446.0	4872.0	3414.4	2594.3	2119.3	1827.0	1628.1	1494.1
0°	21875.2	16686.5	11668.4	7446.0	4872.0	3414.4	2594.3	2119.3	1827.0	1628.1	1494.1





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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°	28.4	28.4	24.4	24.4	20.3	20.3	16.2	16.2	12.2	12.2	8.1
85°	65.0	56.8	52.8	48.7	44.7	40.6	36.5	32.5	28.4	24.4	20.3
82.5°	109.6	101.5	89.3	81.2	73.1	65.0	52.8	48.7	40.6	32.5	28.4
80°	154.3	142.1	129.9	117.7	105.6	93.4	81.2	69.0	56.8	44.7	36.5
77.5°	198.9	182.7	170.5	154.3	138.0	121.8	105.6	89.3	73.1	56.8	44.7
75°	251.7	231.4	211.1	190.8	170.5	150.2	134.0	113.7	93.4	73.1	56.8
72.5°	308.6	280.1	255.8	231.4	203.0	182.7	158.3	138.0	113.7	89.3	69.0
70°	369.5	337.0	304.5	272.0	243.6	211.1	186.8	158.3	134.0	105.6	81.2
67.5°	430.4	393.8	357.3	316.7	280.1	247.7	211.1	182.7	150.2	121.8	93.4
65°	503.4	454.7	410.1	365.4	320.7	280.1	243.6	203.0	170.5	138.0	105.6
62.5°	572.5	519.7	466.9	414.1	365.4	316.7	272.0	231.4	190.8	154.3	117.7
60°	641.5	584.6	523.7	466.9	410.1	357.3	304.5	255.8	211.1	170.5	129.9
57.5°	710.5	645.5	584.6	519.7	454.7	393.8	337.0	280.1	231.4	182.7	142.1
55°	771.4	710.5	641.5	572.5	503.4	430.4	369.5	308.6	251.7	198.9	154.3
52.5°	836.4	767.3	698.3	621.2	552.2	471.0	401.9	332.9	272.0	215.2	166.5
50°	897.3	824.2	747.0	674.0	592.8	511.6	434.4	361.3	292.3	231.4	174.6
47.5°	954.1	877.0	799.8	718.6	637.4	552.2	466.9	385.7	312.6	247.7	186.8
45°	1002.8	933.8	848.5	763.3	682.1	588.7	499.4	410.1	332.9	263.9	194.9
42.5°	1047.5	978.5	897.3	812.0	718.6	625.2	531.9	438.5	353.2	276.1	207.1
40°	1088.1	1019.1	941.9	848.5	755.2	661.8	560.3	462.8	373.5	292.3	215.2
37.5°	1128.7	1055.6	978.5	889.1	791.7	694.3	592.8	491.3	393.8	304.5	227.4
35°	1161.2	1092.1	1010.9	925.7	824.2	726.7	621.2	515.6	410.1	316.7	239.5
32.5°	1189.6	1124.6	1047.5	958.2	856.7	751.1	645.5	535.9	426.3	332.9	247.7
30°	1218.0	1153.0	1071.8	986.6	889.1	779.5	669.9	556.2	446.6	345.1	255.8
27.5°	1246.4	1177.4	1100.3	1010.9	917.6	803.9	694.3	576.5	462.8	357.3	263.9
25°	1270.8	1197.7	1124.6	1035.3	941.9	828.2	714.6	596.8	479.1	369.5	272.0
22.5°	1291.1	1218.0	1144.9	1055.6	962.2	848.5	730.8	613.1	491.3	377.6	280.1
20°	1311.4	1238.3	1161.2	1075.9	978.5	868.8	747.0	629.3	503.4	385.7	284.2
17.5°	1331.7	1254.5	1177.4	1092.1	994.7	885.1	763.3	641.5	515.6	393.8	292.3
15°	1347.9	1266.7	1189.6	1104.3	1010.9	901.3	775.5	653.7	523.7	401.9	296.4
12.5°	1360.1	1278.9	1201.8	1116.5	1019.1	913.5	787.6	661.8	531.9	410.1	300.4
10°	1372.3	1291.1	1209.9	1128.7	1031.2	921.6	795.8	669.9	540.0	414.1	304.5
7.5°	1380.4	1299.2	1218.0	1136.8	1039.4	929.7	803.9	678.0	544.0	418.2	308.6
5°	1388.5	1303.3	1222.1	1140.9	1043.4	941.9	812.0	686.1	552.2	422.2	308.6
2.5°	1392.6	1307.3	1226.1	1144.9	1047.5	941.9	812.0	686.1	552.2	422.2	308.6
0°	1392.6	1307.3	1226.1	1144.9	1047.5	941.9	812.0	686.1	552.2	422.2	308.6



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	8.1	4.1	4.1	0.0
85°	12.2	8.1	4.1	0.0
82.5°	20.3	12.2	8.1	0.0
80°	28.4	20.3	8.1	0.0
77.5°	32.5	24.4	12.2	0.0
75°	40.6	28.4	12.2	0.0
72.5°	48.7	32.5	16.2	0.0
70°	52.8	36.5	16.2	0.0
67.5°	65.0	40.6	20.3	0.0
65°	73.1	44.7	20.3	0.0
62.5°	81.2	48.7	24.4	0.0
60°	89.3	52.8	24.4	0.0
57.5°	101.5	56.8	28.4	0.0
55°	109.6	65.0	28.4	0.0
52.5°	117.7	69.0	32.5	0.0
50°	125.9	73.1	32.5	0.0
47.5°	129.9	81.2	36.5	0.0
45°	138.0	85.3	36.5	0.0
42.5°	146.2	89.3	40.6	0.0
40°	154.3	93.4	40.6	0.0
37.5°	162.4	97.4	40.6	0.0
35°	166.5	101.5	44.7	0.0
32.5°	174.6	105.6	44.7	0.0
30°	178.6	109.6	44.7	0.0
27.5°	182.7	113.7	48.7	0.0
25°	186.8	113.7	48.7	0.0
22.5°	190.8	117.7	48.7	0.0
20°	194.9	121.8	48.7	0.0
17.5°	198.9	121.8	48.7	0.0
15°	203.0	125.9	52.8	0.0
12.5°	207.1	125.9	52.8	0.0
10°	207.1	129.9	52.8	0.0
7.5°	211.1	129.9	52.8	0.0
5°	211.1	129.9	52.8	0.0
2.5°	211.1	129.9	52.8	0.0
0°	211.1	129.9	52.8	0.0

(END OF REPORT)