

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: P624159

Luminaire Tested: **EPH-VN-07-E-930-U-55**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P624159  
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-930-U-55  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 5 distribution lens  
Light Source: (112) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

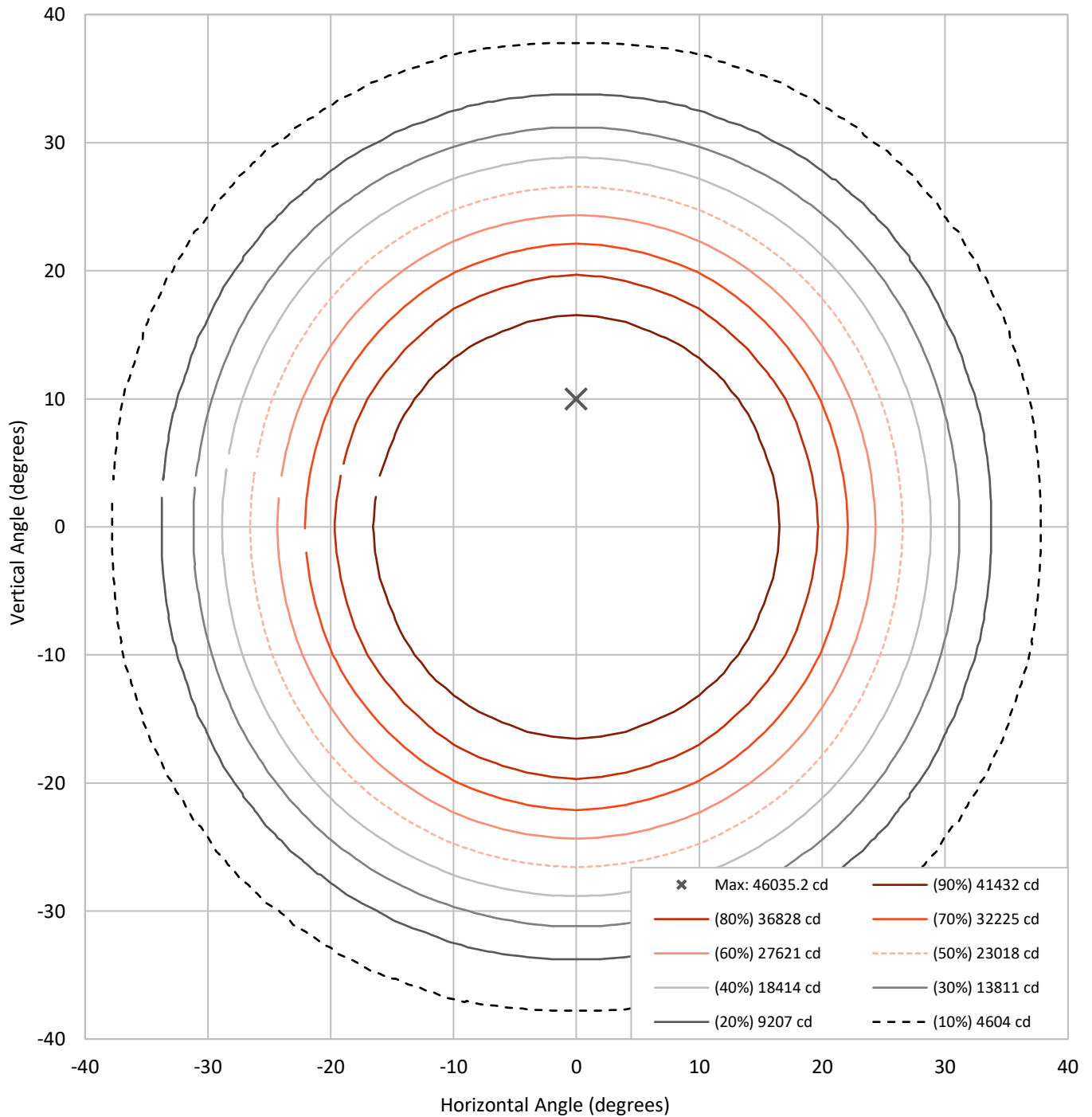
Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	37670.8 lumens	Max Intensity:	46035.2 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	70.7 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	18723.3 lumens	Field Lumens:	24350.2 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





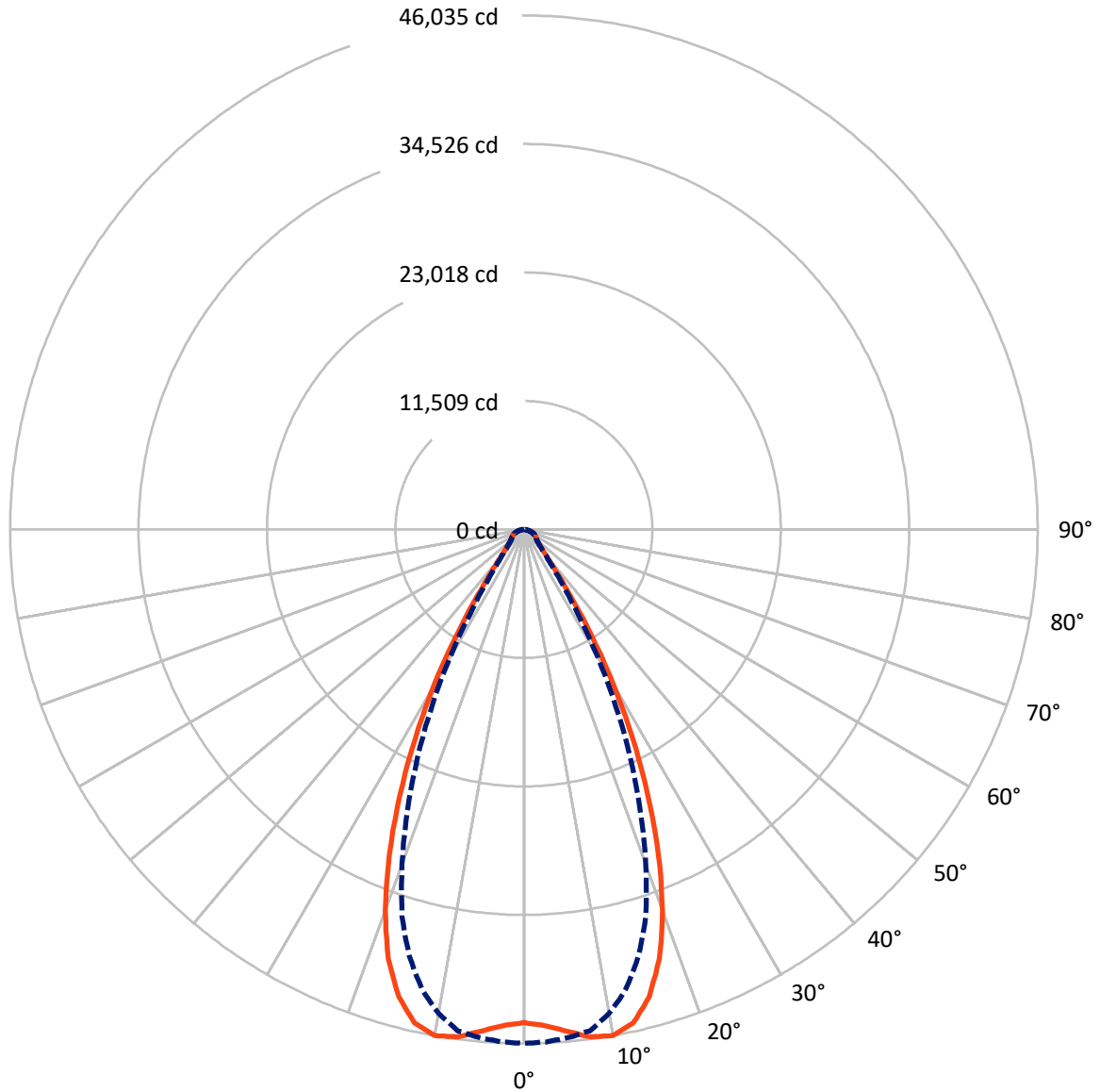
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### Lumen Table

90	1.1	8.3	21.5	34.8	40.3	34.8	21.5	8.3	1.1							
80	1.1	8.3	21.5	34.8	40.3	34.8	21.5	8.3	1.1							
70	3.8	4.1	8.5	14.1	19.8	24.7	28.3	30.2	30.2	28.3	24.7	19.8	14.1	8.5	4.1	3.8
60		6.3	13.0	20.7	27.8	33.7	38.3	40.8	40.8	38.3	33.7	27.8	20.7	13.0	6.3	
50	6.7	8.5	16.8	25.4	34.1	44.1	55.9	64.9	64.9	55.9	44.1	34.1	25.4	16.8	8.5	6.7
40		10.3	19.5	29.5	44.7	79.6	155.5	234.6	234.6	155.5	79.6	44.7	29.5	19.5	10.3	
30	8.9	11.7	21.4	34.6	72.2	230.2	533.3	757.0	757.0	533.3	230.2	72.2	34.6	21.4	11.7	8.9
20		12.5	22.8	41.2	133.3	502.4	982.9	1253.0	1253.0	982.9	502.4	133.3	41.2	22.8	12.5	
10	9.7	13.0	23.6	46.5	195.7	692.0	1215.9	1378.9	1378.9	1215.9	692.0	195.7	46.5	23.6	13.0	9.7
0		13.0	23.6	46.5	195.7	692.0	1215.9	1378.9	1378.9	1215.9	692.0	195.7	46.5	23.6	13.0	
-10	8.9	12.5	22.8	41.2	133.3	502.4	982.9	1253.0	1253.0	982.9	502.4	133.3	41.2	22.8	12.5	8.9
-20		11.7	21.4	34.6	72.2	230.2	533.3	757.0	757.0	533.3	230.2	72.2	34.6	21.4	11.7	
-30	6.7	10.3	19.5	29.5	44.7	79.6	155.5	234.6	234.6	155.5	79.6	44.7	29.5	19.5	10.3	6.7
-40		8.5	16.8	25.4	34.1	44.1	55.9	64.9	64.9	55.9	44.1	34.1	25.4	16.8	8.5	
-50	3.8	6.3	13.0	20.7	27.8	33.7	38.3	40.8	40.8	38.3	33.7	27.8	20.7	13.0	6.3	3.8
-60		4.1	8.5	14.1	19.8	24.7	28.3	30.2	30.2	28.3	24.7	19.8	14.1	8.5	4.1	
-70	1.1	8.3	21.5	34.8	40.3	34.8	21.5	8.3	1.1							
-80		1.1	8.3	21.5	34.8	40.3	34.8	21.5	8.3	1.1						
-90	1.1	8.3	21.5	34.8	40.3	34.8	21.5	8.3	1.1							

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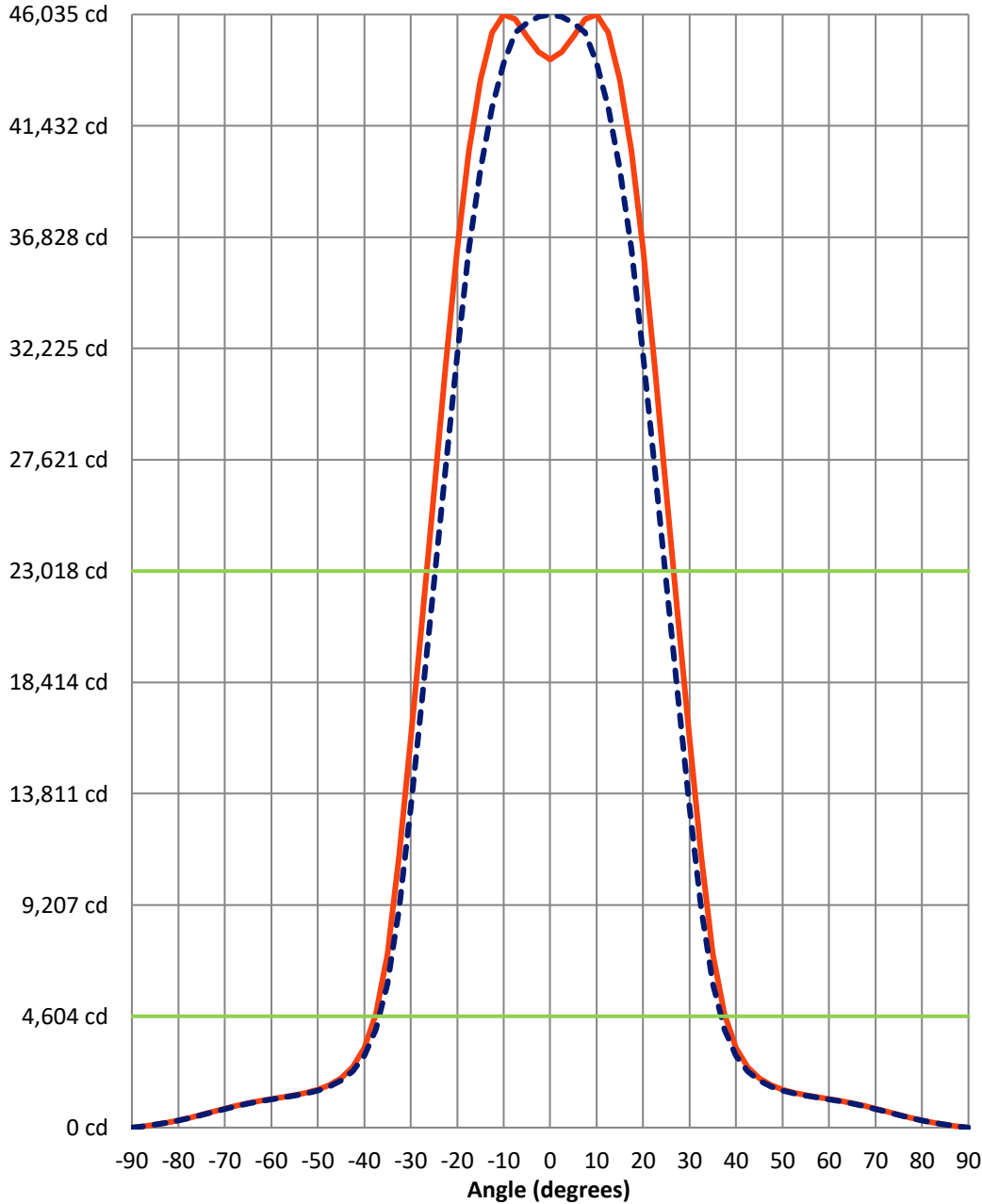
### Luminous Intensity Polar Plot



— 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: 18723.3  
 Efficiency: 49.7%

**Field:**  
 H Angle: 73.6°  
 V Angle: 75.3°  
 Lumens: 24350.2  
 Efficiency: 64.6%

**Spill:**  
 Lumens: 13320.5  
 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°	50.9	50.9	50.9	50.9	50.9	50.9	50.9	47.0	47.0	47.0	47.0
85°	125.2	125.2	125.2	125.2	125.2	121.3	121.3	117.4	117.4	113.5	109.6
82.5°	203.5	203.5	203.5	203.5	199.6	199.6	195.7	191.7	187.8	183.9	180.0
80°	297.4	297.4	297.4	297.4	293.5	289.6	285.7	281.8	273.9	270.0	262.2
77.5°	407.0	407.0	407.0	403.1	399.1	395.2	387.4	379.6	371.8	363.9	356.1
75°	532.2	532.2	532.2	524.4	520.5	512.6	504.8	497.0	485.2	473.5	461.8
72.5°	661.3	661.3	661.3	653.5	645.7	637.9	630.0	618.3	606.6	590.9	575.2
70°	782.6	782.6	782.6	774.8	767.0	759.2	747.4	735.7	720.0	704.4	688.7
67.5°	907.9	907.9	907.9	896.1	888.3	880.5	868.7	853.1	837.4	817.9	798.3
65°	1009.6	1009.6	1005.7	1001.8	994.0	982.2	974.4	958.7	943.1	927.4	907.9
62.5°	1103.5	1103.5	1099.6	1095.7	1087.9	1076.1	1064.4	1052.7	1037.0	1017.4	997.9
60°	1181.8	1181.8	1177.9	1174.0	1166.1	1158.3	1146.6	1134.8	1119.2	1103.5	1084.0
57.5°	1260.1	1260.1	1256.1	1252.2	1244.4	1232.7	1220.9	1209.2	1193.5	1174.0	1154.4
55°	1342.2	1342.2	1338.3	1330.5	1322.7	1310.9	1299.2	1283.5	1264.0	1244.4	1224.8
52.5°	1440.1	1440.1	1432.2	1424.4	1412.7	1400.9	1381.4	1361.8	1338.3	1314.8	1291.4
50°	1569.2	1569.2	1561.4	1549.6	1530.1	1510.5	1487.0	1455.7	1428.3	1397.0	1365.7
47.5°	1761.0	1761.0	1745.3	1725.7	1698.3	1667.0	1624.0	1577.0	1537.9	1498.8	1451.8
45°	2042.7	2042.7	2019.2	1987.9	1944.9	1890.1	1827.5	1761.0	1694.4	1627.9	1561.4
42.5°	2500.6	2500.6	2457.5	2402.7	2328.4	2234.5	2117.1	2007.5	1913.6	1807.9	1717.9
40°	3291.0	3291.0	3208.8	3107.1	2966.2	2786.2	2571.0	2398.8	2234.5	2050.5	1925.3
37.5°	4695.9	4695.9	4535.4	4339.8	4065.8	3721.5	3306.7	3028.8	2723.6	2434.0	2222.7
35°	7176.9	7176.9	6867.7	6488.1	5959.9	5294.6	4586.3	4061.9	3478.9	3032.8	2637.5
32.5°	11246.6	11246.6	10690.9	10006.1	9063.0	7869.5	6734.7	5736.8	4695.9	3956.3	3244.1
30°	16083.4	16083.4	15355.5	14459.4	13230.6	11681.0	10064.8	8292.1	6648.6	5329.8	4253.7
27.5°	21084.5	20877.1	20251.0	19229.6	17828.7	16083.4	14068.1	11778.8	9556.1	7231.7	5693.8
25°	26257.8	26015.2	25299.0	24125.1	22520.6	20544.5	18274.8	15715.5	12972.4	10201.8	7540.8
22.5°	31485.9	31211.9	30398.0	29071.4	27271.3	25056.4	22485.4	19640.5	16576.4	13375.4	10201.8
20°	36318.7	36029.1	35176.0	33794.7	31932.0	29501.8	26645.2	23491.1	20102.3	16576.4	12972.4
17.5°	40365.0	40087.1	39265.4	37946.6	36318.7	33630.3	30660.2	27193.0	23491.1	19640.5	15715.5
15°	43319.5	43080.8	42380.3	41272.8	39613.6	37234.4	34209.5	30660.2	26645.2	22485.4	18274.8
12.5°	45280.0	45088.2	44536.5	43675.6	42188.5	40192.8	37234.4	33630.3	29501.8	25056.4	20544.5
10°	46035.2	45941.3	45683.1	45287.8	44019.9	42188.5	39613.6	36318.7	31932.0	27271.3	22520.6
7.5°	45835.7	45867.0	45957.0	45855.2	45287.8	43675.6	41272.8	37946.6	33794.7	29071.4	24125.1
5°	45123.5	45291.7	45710.4	45957.0	45683.1	44536.5	42380.3	39265.4	35176.0	30398.0	25299.0
2.5°	44489.5	44751.7	45291.7	45867.0	45941.3	45088.2	43080.8	40087.1	36029.1	31211.9	26015.2
0°	44176.5	44489.5	45123.5	45835.7	46035.2	45280.0	43319.5	40365.0	36318.7	31485.9	26257.8



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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°	47.0	43.0	43.0	43.0	39.1	39.1	39.1	35.2	35.2	31.3	31.3
85°	109.6	105.7	101.7	97.8	93.9	90.0	86.1	82.2	78.3	70.4	66.5
82.5°	176.1	172.2	168.3	160.4	156.5	148.7	140.9	133.0	125.2	121.3	113.5
80°	254.4	246.5	238.7	230.9	219.1	207.4	199.6	187.8	180.0	168.3	160.4
77.5°	344.4	332.6	320.9	305.2	293.5	281.8	266.1	254.4	238.7	223.1	207.4
75°	446.1	430.5	410.9	395.2	379.6	360.0	340.5	320.9	301.3	281.8	262.2
72.5°	555.7	536.1	516.5	497.0	473.5	446.1	422.6	395.2	371.8	348.3	320.9
70°	669.2	645.7	622.2	598.7	571.3	540.0	512.6	481.3	450.0	418.7	387.4
67.5°	774.8	751.3	723.9	700.5	669.2	637.9	602.6	567.4	532.2	493.1	453.9
65°	884.4	857.0	825.7	794.4	763.1	727.9	692.6	657.4	614.4	571.3	532.2
62.5°	974.4	950.9	923.5	892.2	857.0	817.9	782.6	735.7	692.6	649.6	598.7
60°	1060.5	1033.1	1009.6	974.4	943.1	907.9	864.8	817.9	770.9	720.0	673.1
57.5°	1134.8	1111.4	1084.0	1052.7	1017.4	982.2	943.1	900.0	845.3	794.4	739.6
55°	1201.4	1174.0	1146.6	1119.2	1087.9	1048.7	1009.6	966.6	919.6	864.8	806.1
52.5°	1267.9	1240.5	1209.2	1181.8	1146.6	1111.4	1072.2	1029.2	982.2	931.3	868.7
50°	1334.4	1303.1	1271.8	1236.6	1201.4	1166.1	1127.0	1087.9	1037.0	986.1	931.3
47.5°	1412.7	1373.5	1334.4	1295.3	1260.1	1217.0	1177.9	1134.8	1091.8	1037.0	982.2
45°	1510.5	1451.8	1404.8	1357.9	1314.8	1271.8	1224.8	1181.8	1134.8	1087.9	1029.2
42.5°	1631.8	1553.6	1490.9	1428.3	1373.5	1322.7	1275.7	1224.8	1177.9	1127.0	1072.2
40°	1796.2	1690.5	1588.8	1510.5	1440.1	1377.5	1322.7	1271.8	1217.0	1166.1	1111.4
37.5°	2011.4	1862.7	1721.8	1608.3	1518.3	1440.1	1373.5	1314.8	1260.1	1201.4	1146.6
35°	2336.2	2077.9	1897.9	1733.6	1608.3	1510.5	1428.3	1357.9	1295.3	1236.6	1181.8
32.5°	2794.0	2394.9	2105.3	1897.9	1721.8	1588.8	1490.9	1404.8	1334.4	1271.8	1209.2
30°	3396.7	2844.9	2394.9	2077.9	1862.7	1690.5	1553.6	1451.8	1373.5	1303.1	1240.5
27.5°	4351.5	3396.7	2794.0	2336.2	2011.4	1796.2	1631.8	1510.5	1412.7	1334.4	1267.9
25°	5693.8	4253.7	3244.1	2637.5	2222.7	1925.3	1717.9	1561.4	1451.8	1365.7	1291.4
22.5°	7231.7	5329.8	3956.3	3032.8	2434.0	2050.5	1807.9	1627.9	1498.8	1397.0	1314.8
20°	9556.1	6648.6	4695.9	3478.9	2723.6	2234.5	1913.6	1694.4	1537.9	1428.3	1338.3
17.5°	11778.8	8292.1	5736.8	4061.9	3028.8	2398.8	2007.5	1761.0	1577.0	1455.7	1361.8
15°	14068.1	10064.8	6734.7	4586.3	3306.7	2571.0	2117.1	1827.5	1624.0	1487.0	1381.4
12.5°	16083.4	11681.0	7869.5	5294.6	3721.5	2786.2	2234.5	1890.1	1667.0	1510.5	1400.9
10°	17828.7	13230.6	9063.0	5959.9	4065.8	2966.2	2328.4	1944.9	1698.3	1530.1	1412.7
7.5°	19229.6	14459.4	10006.1	6488.1	4339.8	3107.1	2402.7	1987.9	1725.7	1549.6	1424.4
5°	20251.0	15355.5	10690.9	6867.7	4535.4	3208.8	2457.5	2019.2	1745.3	1561.4	1432.2
2.5°	20877.1	16083.4	11246.6	7176.9	4695.9	3291.0	2500.6	2042.7	1761.0	1569.2	1440.1
0°	21084.5	16083.4	11246.6	7176.9	4695.9	3291.0	2500.6	2042.7	1761.0	1569.2	1440.1





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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°	27.4	27.4	23.5	23.5	19.6	19.6	15.7	15.7	11.7	11.7	7.8
85°	62.6	54.8	50.9	47.0	43.0	39.1	35.2	31.3	27.4	23.5	19.6
82.5°	105.7	97.8	86.1	78.3	70.4	62.6	50.9	47.0	39.1	31.3	27.4
80°	148.7	137.0	125.2	113.5	101.7	90.0	78.3	66.5	54.8	43.0	35.2
77.5°	191.7	176.1	164.4	148.7	133.0	117.4	101.7	86.1	70.4	54.8	43.0
75°	242.6	223.1	203.5	183.9	164.4	144.8	129.1	109.6	90.0	70.4	54.8
72.5°	297.4	270.0	246.5	223.1	195.7	176.1	152.6	133.0	109.6	86.1	66.5
70°	356.1	324.8	293.5	262.2	234.8	203.5	180.0	152.6	129.1	101.7	78.3
67.5°	414.8	379.6	344.4	305.2	270.0	238.7	203.5	176.1	144.8	117.4	90.0
65°	485.2	438.3	395.2	352.2	309.1	270.0	234.8	195.7	164.4	133.0	101.7
62.5°	551.8	500.9	450.0	399.1	352.2	305.2	262.2	223.1	183.9	148.7	113.5
60°	618.3	563.5	504.8	450.0	395.2	344.4	293.5	246.5	203.5	164.4	125.2
57.5°	684.8	622.2	563.5	500.9	438.3	379.6	324.8	270.0	223.1	176.1	137.0
55°	743.5	684.8	618.3	551.8	485.2	414.8	356.1	297.4	242.6	191.7	148.7
52.5°	806.1	739.6	673.1	598.7	532.2	453.9	387.4	320.9	262.2	207.4	160.4
50°	864.8	794.4	720.0	649.6	571.3	493.1	418.7	348.3	281.8	223.1	168.3
47.5°	919.6	845.3	770.9	692.6	614.4	532.2	450.0	371.8	301.3	238.7	180.0
45°	966.6	900.0	817.9	735.7	657.4	567.4	481.3	395.2	320.9	254.4	187.8
42.5°	1009.6	943.1	864.8	782.6	692.6	602.6	512.6	422.6	340.5	266.1	199.6
40°	1048.7	982.2	907.9	817.9	727.9	637.9	540.0	446.1	360.0	281.8	207.4
37.5°	1087.9	1017.4	943.1	857.0	763.1	669.2	571.3	473.5	379.6	293.5	219.1
35°	1119.2	1052.7	974.4	892.2	794.4	700.5	598.7	497.0	395.2	305.2	230.9
32.5°	1146.6	1084.0	1009.6	923.5	825.7	723.9	622.2	516.5	410.9	320.9	238.7
30°	1174.0	1111.4	1033.1	950.9	857.0	751.3	645.7	536.1	430.5	332.6	246.5
27.5°	1201.4	1134.8	1060.5	974.4	884.4	774.8	669.2	555.7	446.1	344.4	254.4
25°	1224.8	1154.4	1084.0	997.9	907.9	798.3	688.7	575.2	461.8	356.1	262.2
22.5°	1244.4	1174.0	1103.5	1017.4	927.4	817.9	704.4	590.9	473.5	363.9	270.0
20°	1264.0	1193.5	1119.2	1037.0	943.1	837.4	720.0	606.6	485.2	371.8	273.9
17.5°	1283.5	1209.2	1134.8	1052.7	958.7	853.1	735.7	618.3	497.0	379.6	281.8
15°	1299.2	1220.9	1146.6	1064.4	974.4	868.7	747.4	630.0	504.8	387.4	285.7
12.5°	1310.9	1232.7	1158.3	1076.1	982.2	880.5	759.2	637.9	512.6	395.2	289.6
10°	1322.7	1244.4	1166.1	1087.9	994.0	888.3	767.0	645.7	520.5	399.1	293.5
7.5°	1330.5	1252.2	1174.0	1095.7	1001.8	896.1	774.8	653.5	524.4	403.1	297.4
5°	1338.3	1256.1	1177.9	1099.6	1005.7	907.9	782.6	661.3	532.2	407.0	297.4
2.5°	1342.2	1260.1	1181.8	1103.5	1009.6	907.9	782.6	661.3	532.2	407.0	297.4
0°	1342.2	1260.1	1181.8	1103.5	1009.6	907.9	782.6	661.3	532.2	407.0	297.4



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	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	7.8	3.9	3.9	0.0
85°	11.7	7.8	3.9	0.0
82.5°	19.6	11.7	7.8	0.0
80°	27.4	19.6	7.8	0.0
77.5°	31.3	23.5	11.7	0.0
75°	39.1	27.4	11.7	0.0
72.5°	47.0	31.3	15.7	0.0
70°	50.9	35.2	15.7	0.0
67.5°	62.6	39.1	19.6	0.0
65°	70.4	43.0	19.6	0.0
62.5°	78.3	47.0	23.5	0.0
60°	86.1	50.9	23.5	0.0
57.5°	97.8	54.8	27.4	0.0
55°	105.7	62.6	27.4	0.0
52.5°	113.5	66.5	31.3	0.0
50°	121.3	70.4	31.3	0.0
47.5°	125.2	78.3	35.2	0.0
45°	133.0	82.2	35.2	0.0
42.5°	140.9	86.1	39.1	0.0
40°	148.7	90.0	39.1	0.0
37.5°	156.5	93.9	39.1	0.0
35°	160.4	97.8	43.0	0.0
32.5°	168.3	101.7	43.0	0.0
30°	172.2	105.7	43.0	0.0
27.5°	176.1	109.6	47.0	0.0
25°	180.0	109.6	47.0	0.0
22.5°	183.9	113.5	47.0	0.0
20°	187.8	117.4	47.0	0.0
17.5°	191.7	117.4	47.0	0.0
15°	195.7	121.3	50.9	0.0
12.5°	199.6	121.3	50.9	0.0
10°	199.6	125.2	50.9	0.0
7.5°	203.5	125.2	50.9	0.0
5°	203.5	125.2	50.9	0.0
2.5°	203.5	125.2	50.9	0.0
0°	203.5	125.2	50.9	0.0

(END OF REPORT)