

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: P624161

Luminaire Tested: **EPH-VN-08-E-930-U-55**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P624161  
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-55  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 5 distribution lens  
Light Source: (128) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

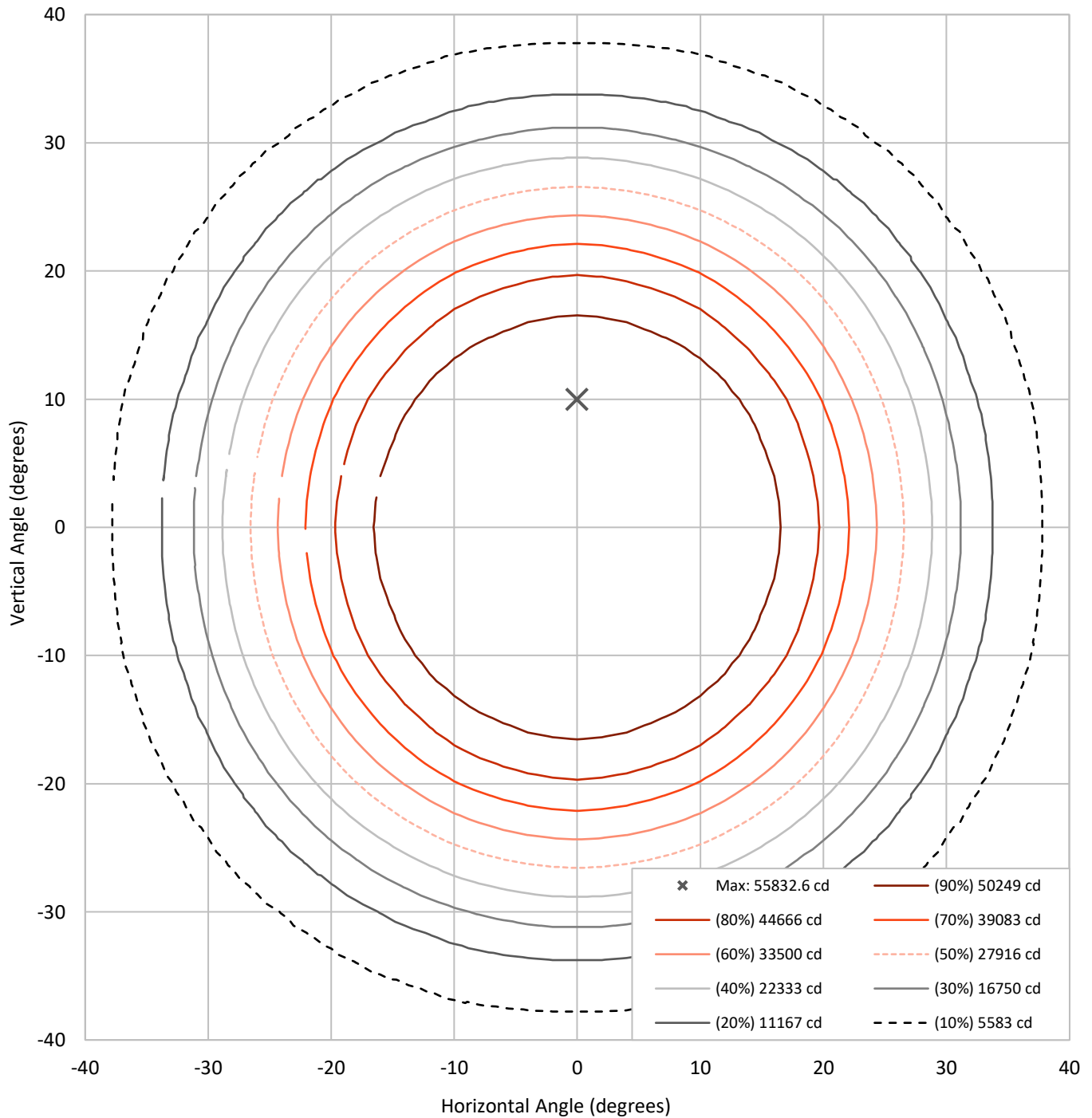
Lumens per Lamp:	N/A	NEMA Type:	5H x 5V
Luminaire Lumens:	45688 lumens	Max Intensity:	55832.6 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 10°V
Efficacy:	72.9 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		
Beam Angle (50%):	49.5°H x 53.1°V	Field Angle (10%):	73.6°H x 75.3°V
Beam Lumens:	22708.1 lumens	Field Lumens:	29532.5 lumens
Beam Efficiency:	49.7%	Field Efficiency:	64.6%

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





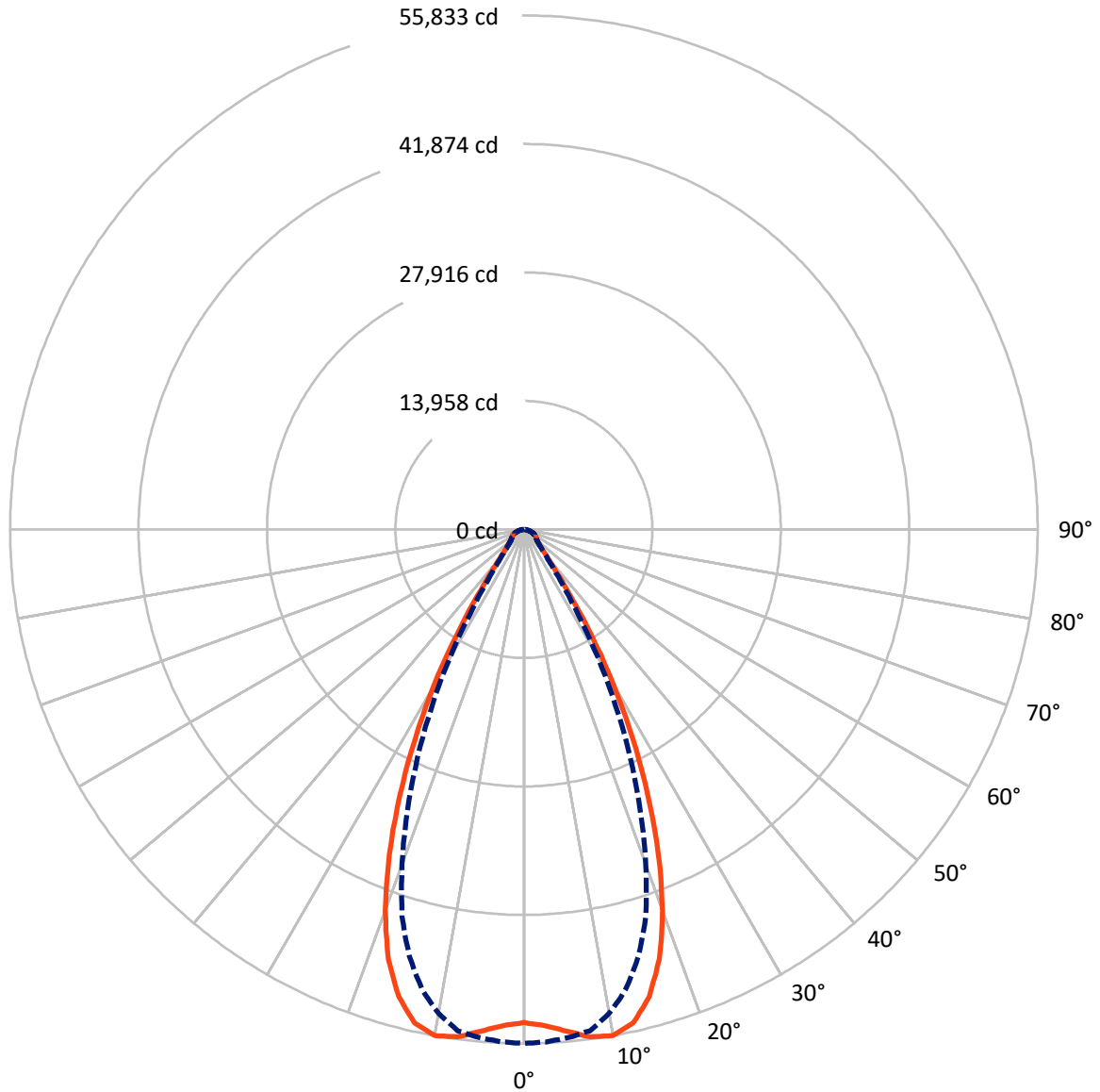
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### Lumen Table

90	1.3	10.0	26.1	42.2	48.8	42.2	26.1	10.0	1.3							
80	1.3	10.0	26.1	42.2	48.8	42.2	26.1	10.0	1.3							
70	4.6	5.0	10.3	17.1	24.0	30.0	34.3	36.6	36.6	34.3	30.0	24.0	17.1	10.3	5.0	4.6
60		7.7	15.8	25.1	33.7	40.9	46.4	49.5	49.5	46.4	40.9	33.7	25.1	15.8	7.7	
50	8.1	10.3	20.4	30.8	41.4	53.5	67.8	78.7	78.7	67.8	53.5	41.4	30.8	20.4	10.3	8.1
40		12.5	23.7	35.8	54.2	96.5	188.6	284.5	284.5	188.6	96.5	54.2	35.8	23.7	12.5	
30	10.8	14.1	26.0	41.9	87.6	279.2	646.8	918.1	918.1	646.8	279.2	87.6	41.9	26.0	14.1	10.8
20		15.2	27.7	50.0	161.7	609.3	1192.1	1519.6	1519.6	1192.1	609.3	161.7	50.0	27.7	15.2	
10	11.8	15.7	28.7	56.4	237.3	839.3	1474.7	1672.4	1672.4	1474.7	839.3	237.3	56.4	28.7	15.7	11.8
0		15.7	28.7	56.4	237.3	839.3	1474.7	1672.4	1672.4	1474.7	839.3	237.3	56.4	28.7	15.7	
-10	10.8	15.2	27.7	50.0	161.7	609.3	1192.1	1519.6	1519.6	1192.1	609.3	161.7	50.0	27.7	15.2	10.8
-20		14.1	26.0	41.9	87.6	279.2	646.8	918.1	918.1	646.8	279.2	87.6	41.9	26.0	14.1	
-30	8.1	12.5	23.7	35.8	54.2	96.5	188.6	284.5	284.5	188.6	96.5	54.2	35.8	23.7	12.5	8.1
-40		10.3	20.4	30.8	41.4	53.5	67.8	78.7	78.7	67.8	53.5	41.4	30.8	20.4	10.3	
-50	4.6	7.7	15.8	25.1	33.7	40.9	46.4	49.5	49.5	46.4	40.9	33.7	25.1	15.8	7.7	4.6
-60		5.0	10.3	17.1	24.0	30.0	34.3	36.6	36.6	34.3	30.0	24.0	17.1	10.3	5.0	
-70	1.3	10.0	26.1	42.2	48.8	42.2	26.1	10.0	1.3							
-80		1.3	10.0	26.1	42.2	48.8	42.2	26.1	10.0	1.3						
-90	1.3	10.0	26.1	42.2	48.8	42.2	26.1	10.0	1.3							

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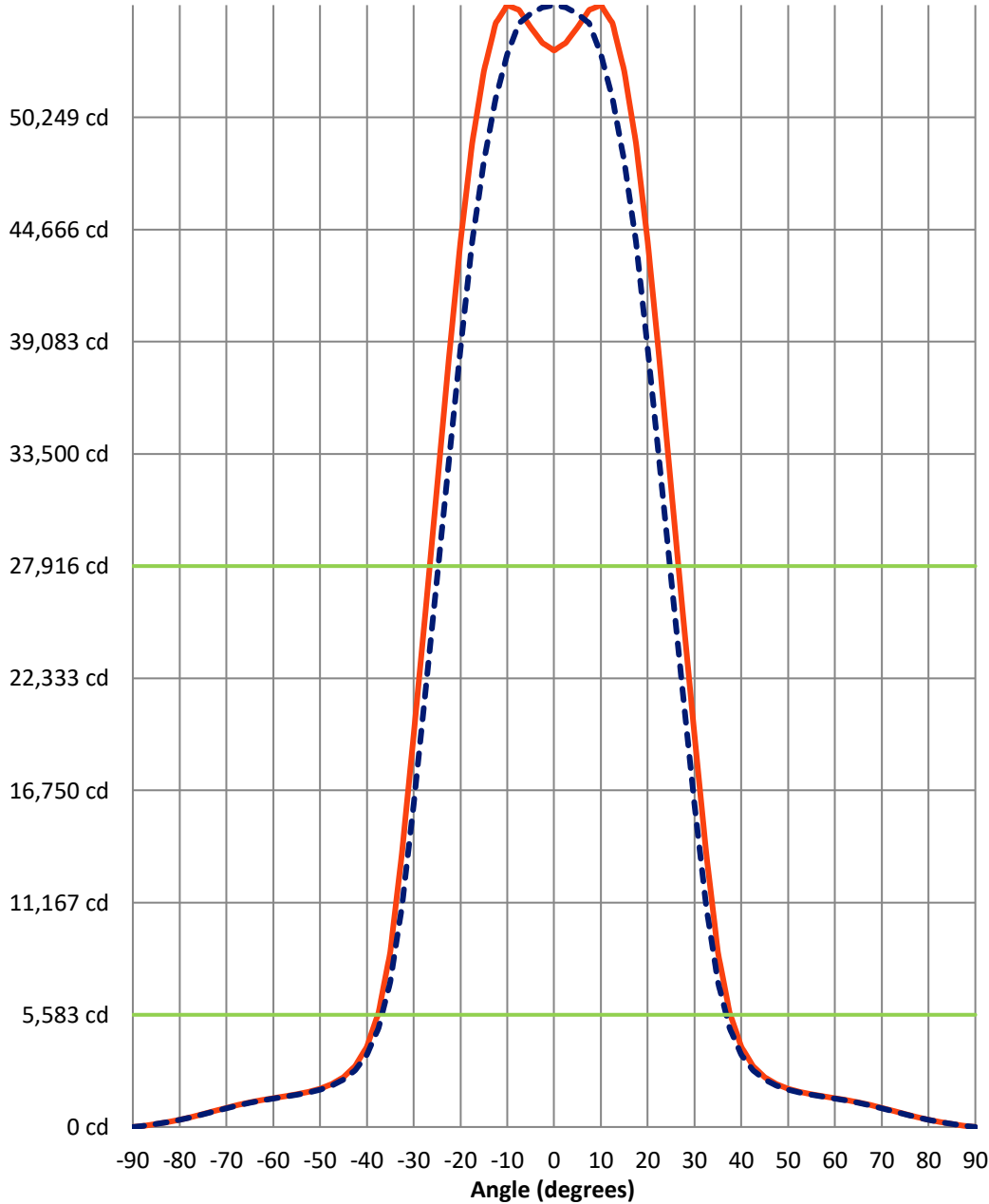
### Luminous Intensity Polar Plot



— 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: 22708.1  
Efficiency: 49.7%

**Field:**  
H Angle: 73.6°  
V Angle: 75.3°  
Lumens: 29532.5  
Efficiency: 64.6%

**Spill:**  
Lumens: 16155.5  
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°	61.7	61.7	61.7	61.7	61.7	61.7	61.7	57.0	57.0	57.0	57.0
85°	151.9	151.9	151.9	151.9	151.9	147.1	147.1	142.4	142.4	137.6	132.9
82.5°	246.8	246.8	246.8	246.8	242.0	242.0	237.3	232.6	227.8	223.1	218.3
80°	360.7	360.7	360.7	360.7	356.0	351.2	346.5	341.7	332.2	327.5	318.0
77.5°	493.6	493.6	493.6	488.8	484.1	479.4	469.9	460.4	450.9	441.4	431.9
75°	645.5	645.5	645.5	636.0	631.2	621.7	612.2	602.7	588.5	574.3	560.0
72.5°	802.1	802.1	802.1	792.6	783.1	773.6	764.1	749.9	735.6	716.7	697.7
70°	949.2	949.2	949.2	939.7	930.2	920.7	906.5	892.3	873.3	854.3	835.3
67.5°	1101.1	1101.1	1101.1	1086.8	1077.4	1067.9	1053.6	1034.6	1015.7	991.9	968.2
65°	1224.5	1224.5	1219.7	1215.0	1205.5	1191.3	1181.8	1162.8	1143.8	1124.8	1101.1
62.5°	1338.4	1338.4	1333.6	1328.9	1319.4	1305.2	1290.9	1276.7	1257.7	1234.0	1210.2
60°	1433.3	1433.3	1428.6	1423.8	1414.3	1404.8	1390.6	1376.4	1357.4	1338.4	1314.7
57.5°	1528.2	1528.2	1523.5	1518.7	1509.2	1495.0	1480.8	1466.5	1447.5	1423.8	1400.1
55°	1627.9	1627.9	1623.2	1613.7	1604.2	1589.9	1575.7	1556.7	1533.0	1509.2	1485.5
52.5°	1746.5	1746.5	1737.1	1727.6	1713.3	1699.1	1675.4	1651.6	1623.2	1594.7	1566.2
50°	1903.2	1903.2	1893.7	1879.4	1855.7	1832.0	1803.5	1765.5	1732.3	1694.3	1656.4
47.5°	2135.7	2135.7	2116.7	2093.0	2059.8	2021.8	1969.6	1912.7	1865.2	1817.7	1760.8
45°	2477.4	2477.4	2449.0	2411.0	2358.8	2292.3	2216.4	2135.7	2055.0	1974.4	1893.7
42.5°	3032.7	3032.7	2980.5	2914.1	2823.9	2710.0	2567.6	2434.7	2320.8	2192.7	2083.5
40°	3991.4	3991.4	3891.8	3768.4	3597.5	3379.2	3118.2	2909.3	2710.0	2486.9	2335.1
37.5°	5695.3	5695.3	5500.7	5263.4	4931.2	4513.5	4010.4	3673.4	3303.3	2952.0	2695.8
35°	8704.3	8704.3	8329.3	7869.0	7228.2	6421.4	5562.4	4926.4	4219.2	3678.2	3198.8
32.5°	13640.2	13640.2	12966.2	12135.7	10991.9	9544.3	8168.0	6957.7	5695.3	4798.3	3934.5
30°	19506.3	19506.3	18623.5	17536.7	16046.4	14167.0	12206.9	10056.9	8063.6	6464.1	5159.0
27.5°	25571.8	25320.2	24560.8	23322.1	21623.0	19506.3	17062.1	14285.6	11589.9	8770.7	6905.5
25°	31846.0	31551.8	30683.3	29259.4	27313.6	24916.8	22164.1	19060.2	15733.2	12373.0	9145.7
22.5°	38186.8	37854.6	36867.4	35258.5	33075.3	30389.0	27270.8	23820.5	20104.3	16222.0	12373.0
20°	44048.2	43697.0	42662.3	40987.0	38727.8	35780.5	32315.9	28490.6	24380.5	20104.3	15733.2
17.5°	48955.6	48618.6	47621.9	46022.5	44048.2	40787.6	37185.4	32980.4	28490.6	23820.5	19060.2
15°	52538.9	52249.3	51399.8	50056.7	48044.3	45158.7	41490.0	37185.4	32315.9	27270.8	22164.1
12.5°	54916.6	54684.1	54014.9	52970.7	51167.2	48746.8	45158.7	40787.6	35780.5	30389.0	24916.8
10°	55832.6	55718.7	55405.5	54926.1	53388.4	51167.2	48044.3	44048.2	38727.8	33075.3	27313.6
7.5°	55590.6	55628.5	55737.7	55614.3	54926.1	52970.7	50056.7	46022.5	40987.0	35258.5	29259.4
5°	54726.8	54930.9	55438.7	55737.7	55405.5	54014.9	51399.8	47621.9	42662.3	36867.4	30683.3
2.5°	53957.9	54275.9	54930.9	55628.5	55718.7	54684.1	52249.3	48618.6	43697.0	37854.6	31551.8
0°	53578.2	53957.9	54726.8	55590.6	55832.6	54916.6	52538.9	48955.6	44048.2	38186.8	31846.0



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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°	57.0	52.2	52.2	52.2	47.5	47.5	47.5	42.7	42.7	38.0	38.0
85°	132.9	128.1	123.4	118.7	113.9	109.2	104.4	99.7	94.9	85.4	80.7
82.5°	213.6	208.8	204.1	194.6	189.8	180.4	170.9	161.4	151.9	147.1	137.6
80°	308.5	299.0	289.5	280.0	265.8	251.5	242.0	227.8	218.3	204.1	194.6
77.5°	417.7	403.4	389.2	370.2	356.0	341.7	322.7	308.5	289.5	270.5	251.5
75°	541.1	522.1	498.3	479.4	460.4	436.6	412.9	389.2	365.4	341.7	318.0
72.5°	673.9	650.2	626.5	602.7	574.3	541.1	512.6	479.4	450.9	422.4	389.2
70°	811.6	783.1	754.6	726.1	692.9	655.0	621.7	583.8	545.8	507.8	469.9
67.5°	939.7	911.2	878.0	849.5	811.6	773.6	730.9	688.2	645.5	598.0	550.5
65°	1072.6	1039.4	1001.4	963.4	925.5	882.8	840.1	797.3	745.1	692.9	645.5
62.5°	1181.8	1153.3	1120.1	1082.1	1039.4	991.9	949.2	892.3	840.1	787.8	726.1
60°	1286.2	1253.0	1224.5	1181.8	1143.8	1101.1	1048.9	991.9	935.0	873.3	816.3
57.5°	1376.4	1347.9	1314.7	1276.7	1234.0	1191.3	1143.8	1091.6	1025.1	963.4	897.0
55°	1457.0	1423.8	1390.6	1357.4	1319.4	1271.9	1224.5	1172.3	1115.3	1048.9	977.7
52.5°	1537.7	1504.5	1466.5	1433.3	1390.6	1347.9	1300.4	1248.2	1191.3	1129.6	1053.6
50°	1618.4	1580.4	1542.5	1499.8	1457.0	1414.3	1366.9	1319.4	1257.7	1196.0	1129.6
47.5°	1713.3	1665.9	1618.4	1570.9	1528.2	1476.0	1428.6	1376.4	1324.2	1257.7	1191.3
45°	1832.0	1760.8	1703.8	1646.9	1594.7	1542.5	1485.5	1433.3	1376.4	1319.4	1248.2
42.5°	1979.1	1884.2	1808.2	1732.3	1665.9	1604.2	1547.2	1485.5	1428.6	1366.9	1300.4
40°	2178.4	2050.3	1926.9	1832.0	1746.5	1670.6	1604.2	1542.5	1476.0	1414.3	1347.9
37.5°	2439.5	2259.1	2088.3	1950.6	1841.5	1746.5	1665.9	1594.7	1528.2	1457.0	1390.6
35°	2833.4	2520.2	2301.8	2102.5	1950.6	1832.0	1732.3	1646.9	1570.9	1499.8	1433.3
32.5°	3388.7	2904.6	2553.4	2301.8	2088.3	1926.9	1808.2	1703.8	1618.4	1542.5	1466.5
30°	4119.6	3450.4	2904.6	2520.2	2259.1	2050.3	1884.2	1760.8	1665.9	1580.4	1504.5
27.5°	5277.6	4119.6	3388.7	2833.4	2439.5	2178.4	1979.1	1832.0	1713.3	1618.4	1537.7
25°	6905.5	5159.0	3934.5	3198.8	2695.8	2335.1	2083.5	1893.7	1760.8	1656.4	1566.2
22.5°	8770.7	6464.1	4798.3	3678.2	2952.0	2486.9	2192.7	1974.4	1817.7	1694.3	1594.7
20°	11589.9	8063.6	5695.3	4219.2	3303.3	2710.0	2320.8	2055.0	1865.2	1732.3	1623.2
17.5°	14285.6	10056.9	6957.7	4926.4	3673.4	2909.3	2434.7	2135.7	1912.7	1765.5	1651.6
15°	17062.1	12206.9	8168.0	5562.4	4010.4	3118.2	2567.6	2216.4	1969.6	1803.5	1675.4
12.5°	19506.3	14167.0	9544.3	6421.4	4513.5	3379.2	2710.0	2292.3	2021.8	1832.0	1699.1
10°	21623.0	16046.4	10991.9	7228.2	4931.2	3597.5	2823.9	2358.8	2059.8	1855.7	1713.3
7.5°	23322.1	17536.7	12135.7	7869.0	5263.4	3768.4	2914.1	2411.0	2093.0	1879.4	1727.6
5°	24560.8	18623.5	12966.2	8329.3	5500.7	3891.8	2980.5	2449.0	2116.7	1893.7	1737.1
2.5°	25320.2	19506.3	13640.2	8704.3	5695.3	3991.4	3032.7	2477.4	2135.7	1903.2	1746.5
0°	25571.8	19506.3	13640.2	8704.3	5695.3	3991.4	3032.7	2477.4	2135.7	1903.2	1746.5





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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°	33.2	33.2	28.5	28.5	23.7	23.7	19.0	19.0	14.2	14.2	9.5
85°	75.9	66.4	61.7	57.0	52.2	47.5	42.7	38.0	33.2	28.5	23.7
82.5°	128.1	118.7	104.4	94.9	85.4	75.9	61.7	57.0	47.5	38.0	33.2
80°	180.4	166.1	151.9	137.6	123.4	109.2	94.9	80.7	66.4	52.2	42.7
77.5°	232.6	213.6	199.3	180.4	161.4	142.4	123.4	104.4	85.4	66.4	52.2
75°	294.3	270.5	246.8	223.1	199.3	175.6	156.6	132.9	109.2	85.4	66.4
72.5°	360.7	327.5	299.0	270.5	237.3	213.6	185.1	161.4	132.9	104.4	80.7
70°	431.9	393.9	356.0	318.0	284.8	246.8	218.3	185.1	156.6	123.4	94.9
67.5°	503.1	460.4	417.7	370.2	327.5	289.5	246.8	213.6	175.6	142.4	109.2
65°	588.5	531.6	479.4	427.1	374.9	327.5	284.8	237.3	199.3	161.4	123.4
62.5°	669.2	607.5	545.8	484.1	427.1	370.2	318.0	270.5	223.1	180.4	137.6
60°	749.9	683.4	612.2	545.8	479.4	417.7	356.0	299.0	246.8	199.3	151.9
57.5°	830.6	754.6	683.4	607.5	531.6	460.4	393.9	327.5	270.5	213.6	166.1
55°	901.8	830.6	749.9	669.2	588.5	503.1	431.9	360.7	294.3	232.6	180.4
52.5°	977.7	897.0	816.3	726.1	645.5	550.5	469.9	389.2	318.0	251.5	194.6
50°	1048.9	963.4	873.3	787.8	692.9	598.0	507.8	422.4	341.7	270.5	204.1
47.5°	1115.3	1025.1	935.0	840.1	745.1	645.5	545.8	450.9	365.4	289.5	218.3
45°	1172.3	1091.6	991.9	892.3	797.3	688.2	583.8	479.4	389.2	308.5	227.8
42.5°	1224.5	1143.8	1048.9	949.2	840.1	730.9	621.7	512.6	412.9	322.7	242.0
40°	1271.9	1191.3	1101.1	991.9	882.8	773.6	655.0	541.1	436.6	341.7	251.5
37.5°	1319.4	1234.0	1143.8	1039.4	925.5	811.6	692.9	574.3	460.4	356.0	265.8
35°	1357.4	1276.7	1181.8	1082.1	963.4	849.5	726.1	602.7	479.4	370.2	280.0
32.5°	1390.6	1314.7	1224.5	1120.1	1001.4	878.0	754.6	626.5	498.3	389.2	289.5
30°	1423.8	1347.9	1253.0	1153.3	1039.4	911.2	783.1	650.2	522.1	403.4	299.0
27.5°	1457.0	1376.4	1286.2	1181.8	1072.6	939.7	811.6	673.9	541.1	417.7	308.5
25°	1485.5	1400.1	1314.7	1210.2	1101.1	968.2	835.3	697.7	560.0	431.9	318.0
22.5°	1509.2	1423.8	1338.4	1234.0	1124.8	991.9	854.3	716.7	574.3	441.4	327.5
20°	1533.0	1447.5	1357.4	1257.7	1143.8	1015.7	873.3	735.6	588.5	450.9	332.2
17.5°	1556.7	1466.5	1376.4	1276.7	1162.8	1034.6	892.3	749.9	602.7	460.4	341.7
15°	1575.7	1480.8	1390.6	1290.9	1181.8	1053.6	906.5	764.1	612.2	469.9	346.5
12.5°	1589.9	1495.0	1404.8	1305.2	1191.3	1067.9	920.7	773.6	621.7	479.4	351.2
10°	1604.2	1509.2	1414.3	1319.4	1205.5	1077.4	930.2	783.1	631.2	484.1	356.0
7.5°	1613.7	1518.7	1423.8	1328.9	1215.0	1086.8	939.7	792.6	636.0	488.8	360.7
5°	1623.2	1523.5	1428.6	1333.6	1219.7	1101.1	949.2	802.1	645.5	493.6	360.7
2.5°	1627.9	1528.2	1433.3	1338.4	1224.5	1101.1	949.2	802.1	645.5	493.6	360.7
0°	1627.9	1528.2	1433.3	1338.4	1224.5	1101.1	949.2	802.1	645.5	493.6	360.7



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	9.5	4.7	4.7	0.0
85°	14.2	9.5	4.7	0.0
82.5°	23.7	14.2	9.5	0.0
80°	33.2	23.7	9.5	0.0
77.5°	38.0	28.5	14.2	0.0
75°	47.5	33.2	14.2	0.0
72.5°	57.0	38.0	19.0	0.0
70°	61.7	42.7	19.0	0.0
67.5°	75.9	47.5	23.7	0.0
65°	85.4	52.2	23.7	0.0
62.5°	94.9	57.0	28.5	0.0
60°	104.4	61.7	28.5	0.0
57.5°	118.7	66.4	33.2	0.0
55°	128.1	75.9	33.2	0.0
52.5°	137.6	80.7	38.0	0.0
50°	147.1	85.4	38.0	0.0
47.5°	151.9	94.9	42.7	0.0
45°	161.4	99.7	42.7	0.0
42.5°	170.9	104.4	47.5	0.0
40°	180.4	109.2	47.5	0.0
37.5°	189.8	113.9	47.5	0.0
35°	194.6	118.7	52.2	0.0
32.5°	204.1	123.4	52.2	0.0
30°	208.8	128.1	52.2	0.0
27.5°	213.6	132.9	57.0	0.0
25°	218.3	132.9	57.0	0.0
22.5°	223.1	137.6	57.0	0.0
20°	227.8	142.4	57.0	0.0
17.5°	232.6	142.4	57.0	0.0
15°	237.3	147.1	61.7	0.0
12.5°	242.0	147.1	61.7	0.0
10°	242.0	151.9	61.7	0.0
7.5°	246.8	151.9	61.7	0.0
5°	246.8	151.9	61.7	0.0
2.5°	246.8	151.9	61.7	0.0
0°	246.8	151.9	61.7	0.0

(END OF REPORT)