

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: EPHESUS

Report Number: P638868

Luminaire Tested: **EPH-VN-08-D-930-U-LAM-VI**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P638868  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-08-D-930-U-LAM-VI  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (128) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26296.4 lumens  
Efficiency: N/A  
Efficacy: 53.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

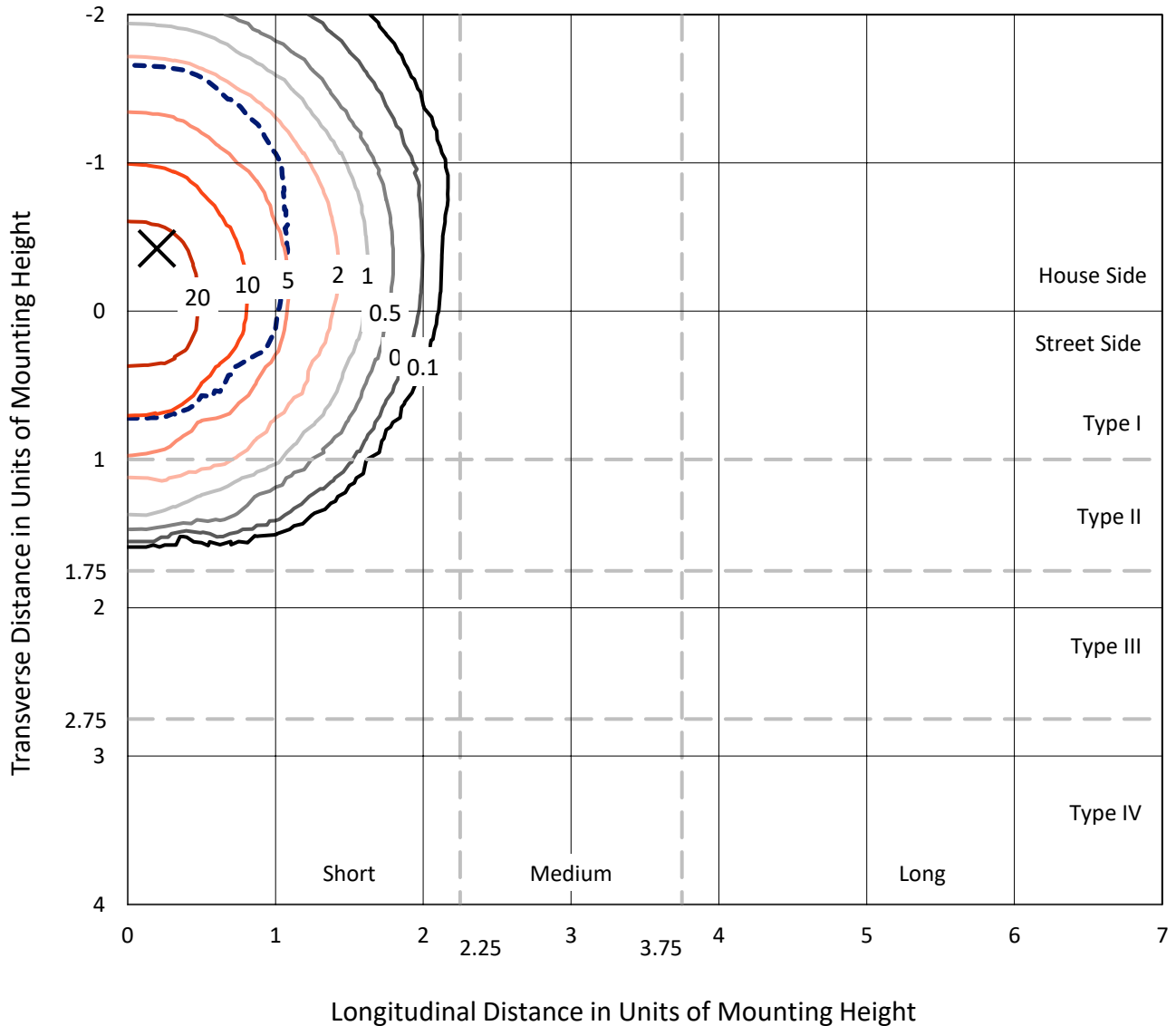
Input Watts (W): 488.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

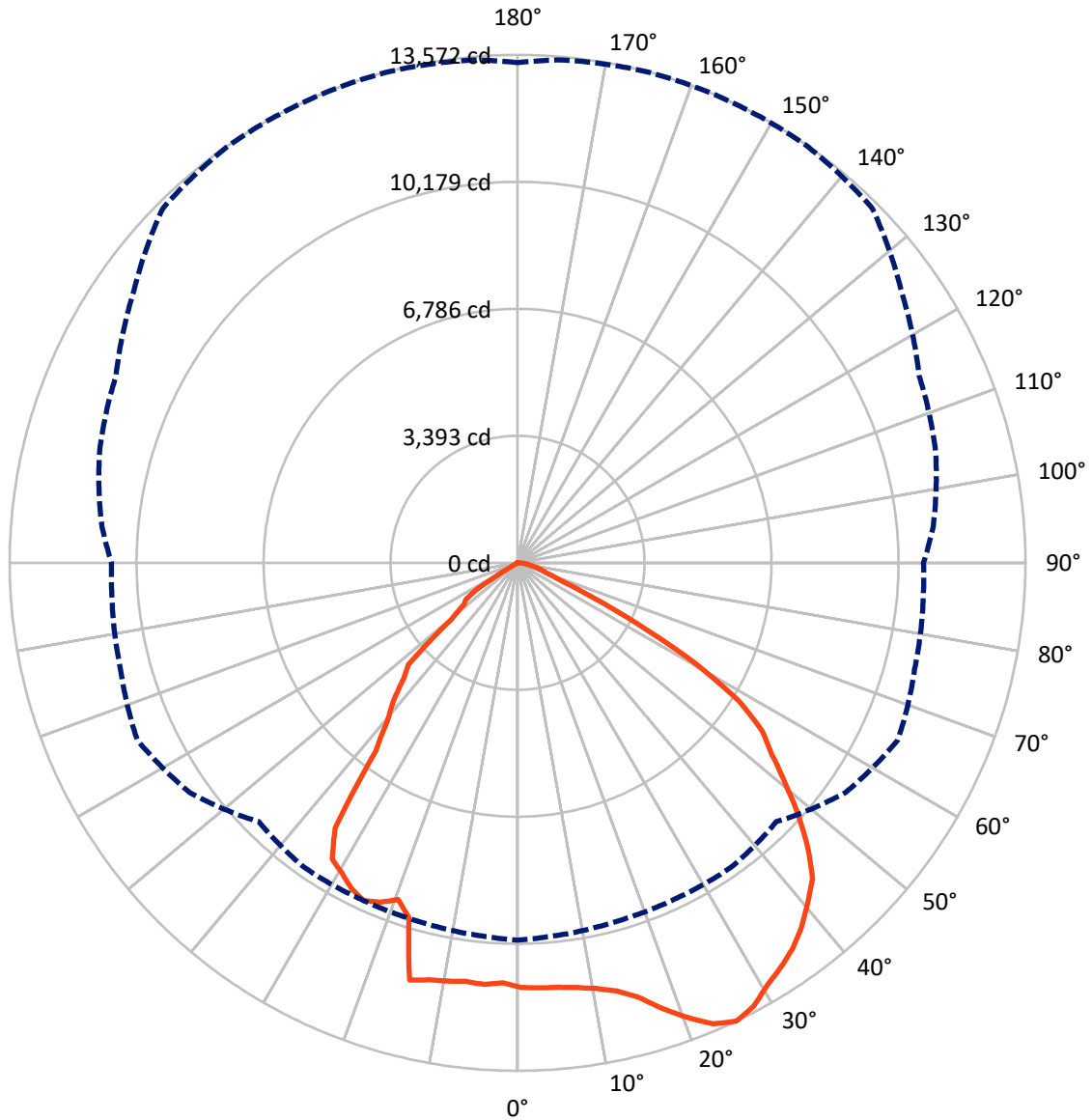
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 28.4 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral      - - - Horizontal Cone Through 25-Deg Vertical

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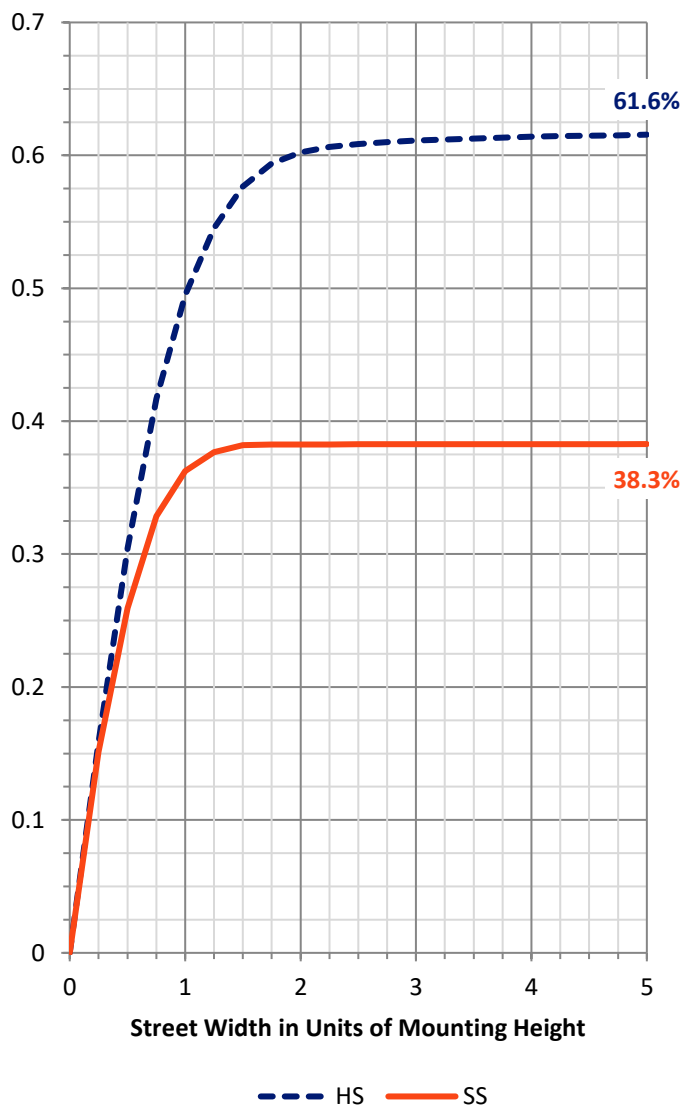
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 16280.1  | 0.0    | 16280.1 |
|                    | % Fixture | 61.9     | 0.0    | 61.9    |
| <b>Street Side</b> | Lumens    | 10016.2  | 0.0    | 10016.2 |
|                    | % Fixture | 38.1     | 0.0    | 38.1    |
| <b>Total</b>       | Lumens    | 26296.4  | 0.0    | 26296.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1088.5  | 4.1       |
| 10°-20°   | 3323.8  | 12.6      |
| 20°-30°   | 5254.7  | 20.0      |
| 30°-40°   | 5935.7  | 22.6      |
| 40°-50°   | 5558.9  | 21.1      |
| 50°-60°   | 3832.5  | 14.6      |
| 60°-70°   | 1029.7  | 3.9       |
| 70°-80°   | 214.6   | 0.8       |
| 80°-90°   | 58.0    | 0.2       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 26296.4 | 100.0     |
| 0°-180°   | 26296.4 | 100.0     |

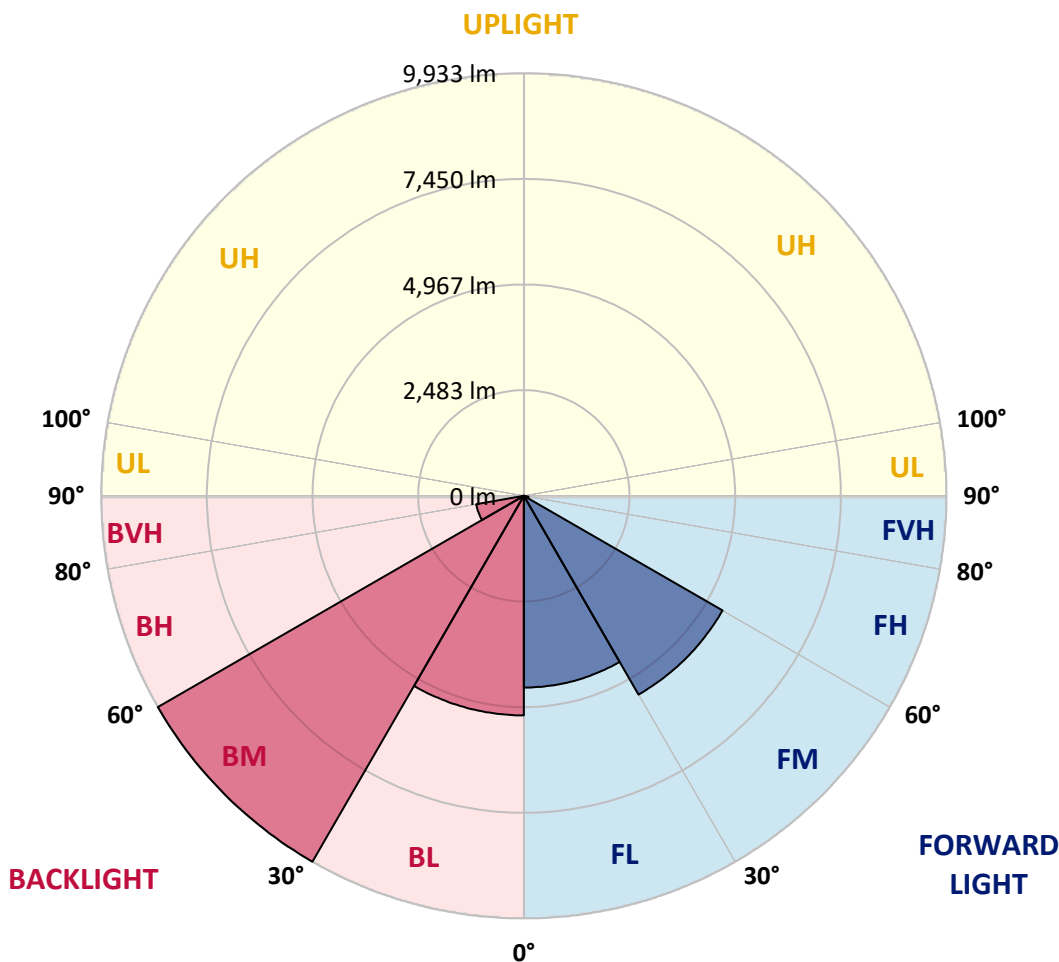


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 4506.4 | 17.1      |                         |      |         |
| FM (30°-60°)   | 5394.0 | 20.5      |                         |      |         |
| FH (60°-80°)   | 108.1  | 0.4       |                         |      | G0/660  |
| FVH (80°-90°)  | 7.8    | 0.0       |                         |      | G0/10   |
| BL (0°-30°)    | 5160.7 | 19.6      | B5                      |      |         |
| BM (30°-60°)   | 9933.0 | 37.8      | B5                      |      |         |
| BH (60°-80°)   | 1136.1 | 4.3       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 50.3   | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11346.4 | 11346.4 | 11346.4 | 11346.4 | 11346.4 | 11346.4 | 11346.4 | 11346.4 | 11346.4 | 11346.4 |
| 2.5°  | 11396.6 | 11323.2 | 11253.7 | 11230.5 | 11327.1 | 11431.4 | 11365.7 | 11369.6 | 11346.4 | 11388.9 |
| 5°    | 11481.7 | 11381.2 | 11334.8 | 11300.0 | 11315.5 | 11423.7 | 11331.0 | 11365.7 | 11327.1 | 11377.3 |
| 7.5°  | 11450.8 | 11381.2 | 11334.8 | 11269.1 | 11319.4 | 11446.9 | 11358.0 | 11361.9 | 11342.5 | 11388.9 |
| 10°   | 11431.4 | 11381.2 | 11323.2 | 11331.0 | 11388.9 | 11497.1 | 11427.6 | 11466.2 | 11439.2 | 11466.2 |
| 12.5° | 11477.8 | 11423.7 | 11392.8 | 11392.8 | 11443.0 | 11566.7 | 11531.9 | 11566.7 | 11555.1 | 11578.3 |
| 15°   | 11041.1 | 11091.3 | 11385.1 | 11516.5 | 11616.9 | 11740.6 | 11725.1 | 11759.9 | 11767.6 | 11802.4 |
| 17.5° | 9313.6  | 9263.4  | 9240.2  | 9916.5  | 11713.5 | 12096.1 | 12084.5 | 12080.7 | 12042.0 | 12015.0 |
| 20°   | 9541.7  | 9522.3  | 9495.3  | 9545.5  | 9746.5  | 12281.6 | 12358.9 | 11883.6 | 11744.5 | 11732.9 |
| 22.5° | 9904.9  | 9874.0  | 9773.5  | 9777.4  | 9839.2  | 10677.8 | 11976.3 | 11543.5 | 11497.1 | 11470.1 |
| 25°   | 10082.7 | 10020.9 | 9939.7  | 9916.5  | 9935.8  | 9781.3  | 10697.2 | 11211.1 | 10983.1 | 10878.8 |
| 27.5° | 9769.7  | 9773.5  | 9707.8  | 9769.7  | 9696.2  | 9000.6  | 8610.3  | 10561.9 | 10554.2 | 10507.8 |
| 30°   | 9533.9  | 9522.3  | 9445.0  | 9522.3  | 9016.1  | 8239.3  | 8073.1  | 9850.8  | 9769.7  | 9707.8  |
| 32.5° | 8811.2  | 8819.0  | 9043.1  | 9344.6  | 8513.7  | 7899.2  | 7396.8  | 8799.7  | 9568.7  | 9533.9  |
| 35°   | 6303.1  | 6318.6  | 7114.7  | 8602.6  | 7752.3  | 7222.9  | 7184.3  | 7605.5  | 9251.8  | 9267.3  |
| 37.5° | 6067.4  | 6067.4  | 6048.1  | 6291.5  | 7153.3  | 6948.5  | 7025.8  | 6983.3  | 8475.0  | 8513.7  |
| 40°   | 5897.4  | 5862.6  | 5835.5  | 5452.9  | 4973.7  | 6755.3  | 6809.4  | 6616.2  | 8011.3  | 8019.0  |
| 42.5° | 5692.5  | 5653.9  | 5661.6  | 4954.4  | 4452.0  | 6276.1  | 6125.4  | 5866.4  | 7238.4  | 7246.1  |
| 45°   | 5317.7  | 5383.4  | 5429.7  | 4336.1  | 4297.4  | 4482.9  | 5650.0  | 5487.7  | 6716.6  | 6859.6  |
| 47.5° | 2705.2  | 2763.2  | 4239.4  | 3988.2  | 4077.1  | 3984.4  | 4772.8  | 4776.6  | 5588.2  | 6063.5  |
| 50°   | 2454.0  | 2438.6  | 2442.4  | 2326.5  | 3764.1  | 3223.1  | 3451.1  | 4378.6  | 4475.2  | 5155.4  |
| 52.5° | 2287.8  | 2284.0  | 2048.2  | 1820.2  | 2365.1  | 2836.6  | 2504.2  | 3169.0  | 3327.4  | 4367.0  |
| 55°   | 1692.7  | 1816.4  | 1615.4  | 1712.0  | 1480.1  | 2272.4  | 2260.8  | 2859.8  | 2913.9  | 3501.3  |
| 57.5° | 15.5    | 19.3    | 46.4    | 1302.4  | 1024.1  | 1136.2  | 1561.3  | 1951.6  | 2048.2  | 2728.4  |
| 60°   | 3.9     | 7.7     | 19.3    | 38.6    | 664.7   | 699.5   | 1043.4  | 1128.5  | 1271.4  | 1627.0  |
| 62.5° | 0.0     | 0.0     | 7.7     | 19.3    | 34.8    | 286.0   | 332.4   | 363.3   | 560.4   | 830.9   |
| 65°   | 0.0     | 0.0     | 3.9     | 11.6    | 19.3    | 46.4    | 81.2    | 170.0   | 243.5   | 301.4   |
| 67.5° | 0.0     | 0.0     | 3.9     | 7.7     | 15.5    | 23.2    | 46.4    | 65.7    | 104.3   | 177.8   |
| 70°   | 0.0     | 0.0     | 3.9     | 7.7     | 11.6    | 19.3    | 30.9    | 46.4    | 61.8    | 88.9    |
| 72.5° | 0.0     | 0.0     | 3.9     | 7.7     | 7.7     | 23.2    | 23.2    | 34.8    | 46.4    | 58.0    |
| 75°   | 0.0     | 0.0     | 3.9     | 3.9     | 7.7     | 15.5    | 23.2    | 27.1    | 30.9    | 46.4    |
| 77.5° | 0.0     | 0.0     | 3.9     | 7.7     | 11.6    | 15.5    | 19.3    | 30.9    | 27.1    | 27.1    |
| 80°   | 0.0     | 0.0     | 3.9     | 11.6    | 11.6    | 19.3    | 23.2    | 30.9    | 19.3    | 19.3    |
| 82.5° | 0.0     | 0.0     | 3.9     | 15.5    | 11.6    | 38.6    | 38.6    | 42.5    | 15.5    | 15.5    |
| 85°   | 0.0     | 0.0     | 11.6    | 7.7     | 23.2    | 38.6    | 34.8    | 23.2    | 19.3    | 11.6    |
| 87.5° | 0.0     | 0.0     | 3.9     | 3.9     | 7.7     | 11.6    | 27.1    | 23.2    | 7.7     | 7.7     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



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**CANDELA DISTRIBUTION (continued):**

| 90°     |       | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 11346.4 | 0°    | 11346.4 | 11346.4 | 11346.4 | 11346.4 | 11346.4 | 11346.4 | 11346.4 | 11346.4 | 11346.4 |
| 11276.8 | 2.5°  | 11431.4 | 11381.2 | 11485.5 | 11473.9 | 11423.7 | 11400.5 | 11373.5 | 11350.3 | 11180.2 |
| 11284.6 | 5°    | 11435.3 | 11358.0 | 11485.5 | 11462.3 | 11454.6 | 11416.0 | 11392.8 | 11427.6 | 11273.0 |
| 11315.5 | 7.5°  | 11435.3 | 11358.0 | 11497.1 | 11504.9 | 11493.3 | 11462.3 | 11458.5 | 11481.7 | 11354.1 |
| 11369.6 | 10°   | 11512.6 | 11481.7 | 11597.6 | 11609.2 | 11593.7 | 11586.0 | 11566.7 | 11551.2 | 11416.0 |
| 11555.1 | 12.5° | 11674.9 | 11613.1 | 11744.5 | 11779.2 | 11767.6 | 11787.0 | 11740.6 | 11763.8 | 11624.7 |
| 11744.5 | 15°   | 11872.0 | 11875.9 | 11976.3 | 12053.6 | 12045.9 | 12107.7 | 12038.2 | 12100.0 | 11999.5 |
| 11960.9 | 17.5° | 12173.4 | 12215.9 | 12358.9 | 12474.9 | 12517.4 | 12563.8 | 12517.4 | 12536.7 | 12393.7 |
| 11721.3 | 20°   | 11856.5 | 12015.0 | 12702.9 | 12915.4 | 13004.3 | 13046.8 | 12969.5 | 12992.7 | 12849.7 |
| 11427.6 | 22.5° | 11570.6 | 11775.4 | 12386.0 | 13050.7 | 13325.1 | 13410.1 | 13383.0 | 13379.2 | 13325.1 |
| 10847.9 | 25°   | 11149.3 | 11562.8 | 11837.2 | 12540.6 | 13402.4 | 13556.9 | 13572.4 | 13568.5 | 13487.4 |
| 10492.3 | 27.5° | 10631.5 | 10724.2 | 11435.3 | 11864.3 | 12861.3 | 13448.7 | 13425.6 | 13313.5 | 13205.3 |
| 9754.2  | 30°   | 9970.6  | 10391.9 | 10712.6 | 11396.6 | 12161.8 | 13116.4 | 13116.4 | 13031.4 | 12919.3 |
| 9491.4  | 32.5° | 9634.4  | 10179.3 | 10476.9 | 10724.2 | 11377.3 | 12745.4 | 12900.0 | 12811.1 | 12722.2 |
| 9286.6  | 35°   | 9456.6  | 9537.8  | 10233.4 | 10457.6 | 11010.2 | 12030.4 | 12656.5 | 12567.6 | 12501.9 |
| 8741.7  | 37.5° | 9066.3  | 9255.7  | 9580.3  | 10179.3 | 10349.3 | 11446.9 | 12331.9 | 12285.5 | 12208.2 |
| 8034.5  | 40°   | 8196.8  | 8703.0  | 9201.6  | 9769.7  | 9947.4  | 10697.2 | 11937.7 | 11957.0 | 11852.7 |
| 7280.9  | 42.5° | 7682.8  | 8026.7  | 8807.4  | 9190.0  | 9669.2  | 10214.1 | 11555.1 | 11586.0 | 11512.6 |
| 6898.3  | 45°   | 7079.9  | 7462.5  | 8011.3  | 8706.9  | 9360.0  | 9549.4  | 10878.8 | 11203.4 | 11141.6 |
| 6137.0  | 47.5° | 6527.3  | 6836.4  | 7508.9  | 8212.2  | 8934.9  | 8907.9  | 10102.0 | 10712.6 | 10627.6 |
| 5553.4  | 50°   | 5742.8  | 6283.8  | 6600.7  | 7246.1  | 8324.3  | 8397.7  | 9275.0  | 10136.8 | 10067.2 |
| 4718.7  | 52.5° | 4842.3  | 5522.5  | 6129.2  | 6720.5  | 7706.0  | 7879.9  | 8505.9  | 9549.4  | 9503.0  |
| 3605.7  | 55°   | 4231.7  | 4726.4  | 5410.4  | 5885.8  | 6956.2  | 7420.0  | 7930.1  | 8989.0  | 8965.8  |
| 2964.1  | 57.5° | 3010.5  | 3965.1  | 4529.3  | 5194.0  | 5758.2  | 6596.8  | 6975.6  | 7849.0  | 7632.5  |
| 1642.4  | 60°   | 2040.5  | 2488.8  | 3176.7  | 3891.6  | 4270.4  | 5109.0  | 5460.7  | 6160.1  | 6102.2  |
| 981.6   | 62.5° | 1078.2  | 1491.7  | 1982.5  | 2341.9  | 2616.3  | 3431.7  | 3578.6  | 4332.2  | 4312.9  |
| 394.2   | 65°   | 475.3   | 629.9   | 1074.4  | 1259.9  | 1542.0  | 1920.7  | 2048.2  | 2318.7  | 2253.1  |
| 193.2   | 67.5° | 247.3   | 374.9   | 606.7   | 745.9   | 939.1   | 1082.1  | 1186.4  | 1271.4  | 1325.6  |
| 127.5   | 70°   | 150.7   | 274.4   | 374.9   | 517.9   | 645.4   | 761.3   | 842.5   | 958.4   | 1028.0  |
| 65.7    | 72.5° | 112.1   | 173.9   | 258.9   | 398.1   | 467.6   | 602.9   | 684.0   | 769.1   | 830.9   |
| 54.1    | 75°   | 61.8    | 115.9   | 208.7   | 313.0   | 374.9   | 490.8   | 564.2   | 622.2   | 641.5   |
| 30.9    | 77.5° | 38.6    | 88.9    | 173.9   | 243.5   | 293.7   | 398.1   | 378.7   | 432.8   | 479.2   |
| 23.2    | 80°   | 27.1    | 65.7    | 135.3   | 201.0   | 204.8   | 255.1   | 301.4   | 347.8   | 378.7   |
| 15.5    | 82.5° | 19.3    | 54.1    | 100.5   | 154.6   | 135.3   | 197.1   | 235.7   | 270.5   | 197.1   |
| 11.6    | 85°   | 15.5    | 38.6    | 50.2    | 92.7    | 77.3    | 139.1   | 119.8   | 115.9   | 77.3    |
| 7.7     | 87.5° | 11.6    | 19.3    | 34.8    | 42.5    | 30.9    | 30.9    | 38.6    | 46.4    | 38.6    |
| 0.0     | 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |





180°  
11346.4  
11064.3  
11141.6  
11207.3  
11303.9  
11501.0  
11833.3  
12270.0  
12749.3  
13151.2  
*13363.7*  
13120.3  
12876.8  
12648.8  
12409.2  
12130.9  
11829.5  
11504.9  
11149.3  
10689.4  
10078.8  
9533.9  
8992.9  
7609.4  
6106.0  
4316.7  
2226.0  
1325.6  
1031.8  
842.5  
629.9  
486.9  
382.6  
143.0  
77.3  
38.6  
0.0

(END OF REPORT)