

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: P977489

Luminaire Tested: **EPH-VN-08-E-740-U-SL4**

Issue Date: 03/26/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P977489  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 03/26/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-08-E-740-U-SL4  
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4  
distribution lens  
Light Source: (128) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 65318.1 lumens  
Efficiency: N/A  
Efficacy: 104.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

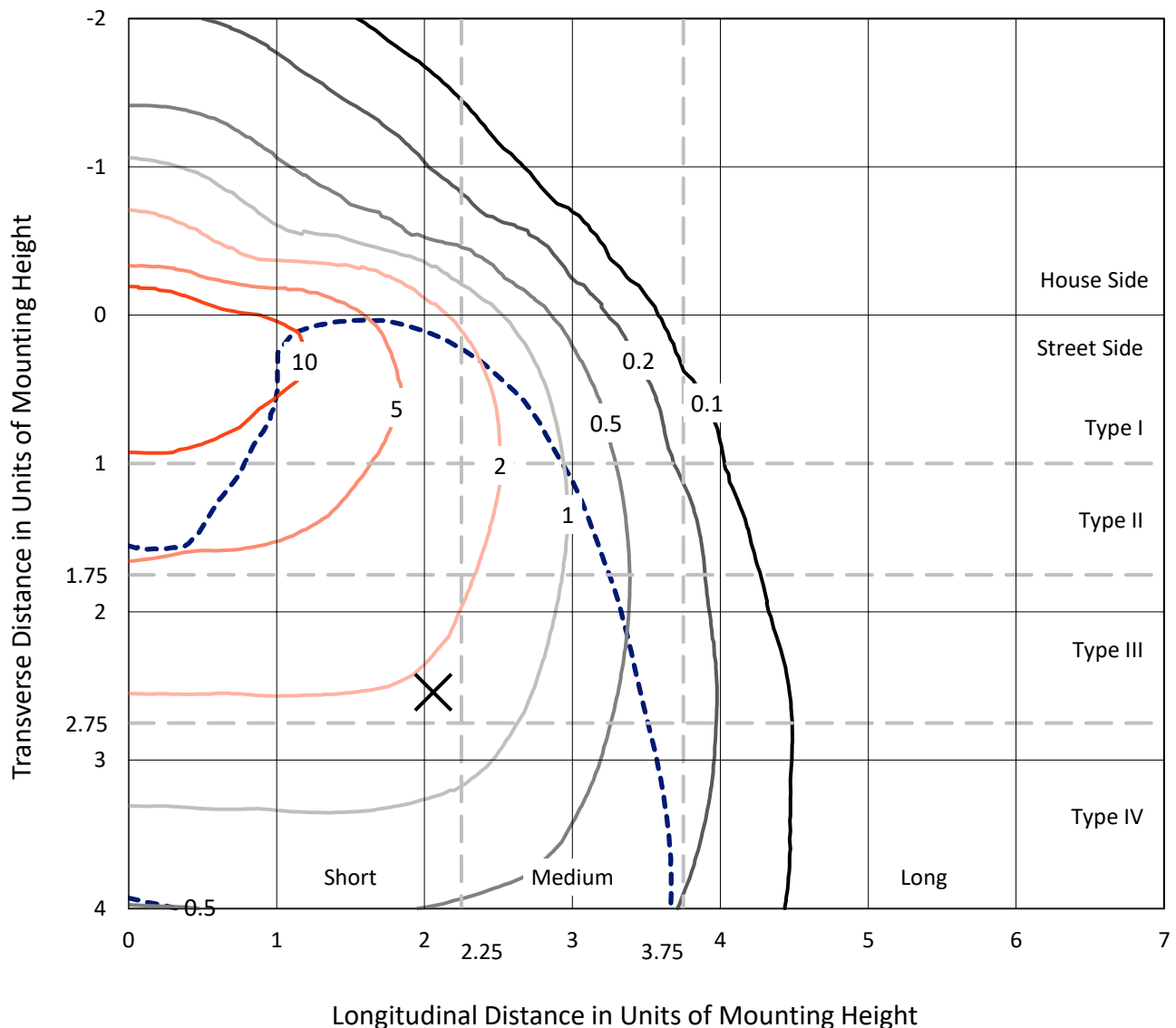
Input Watts (W): 626.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

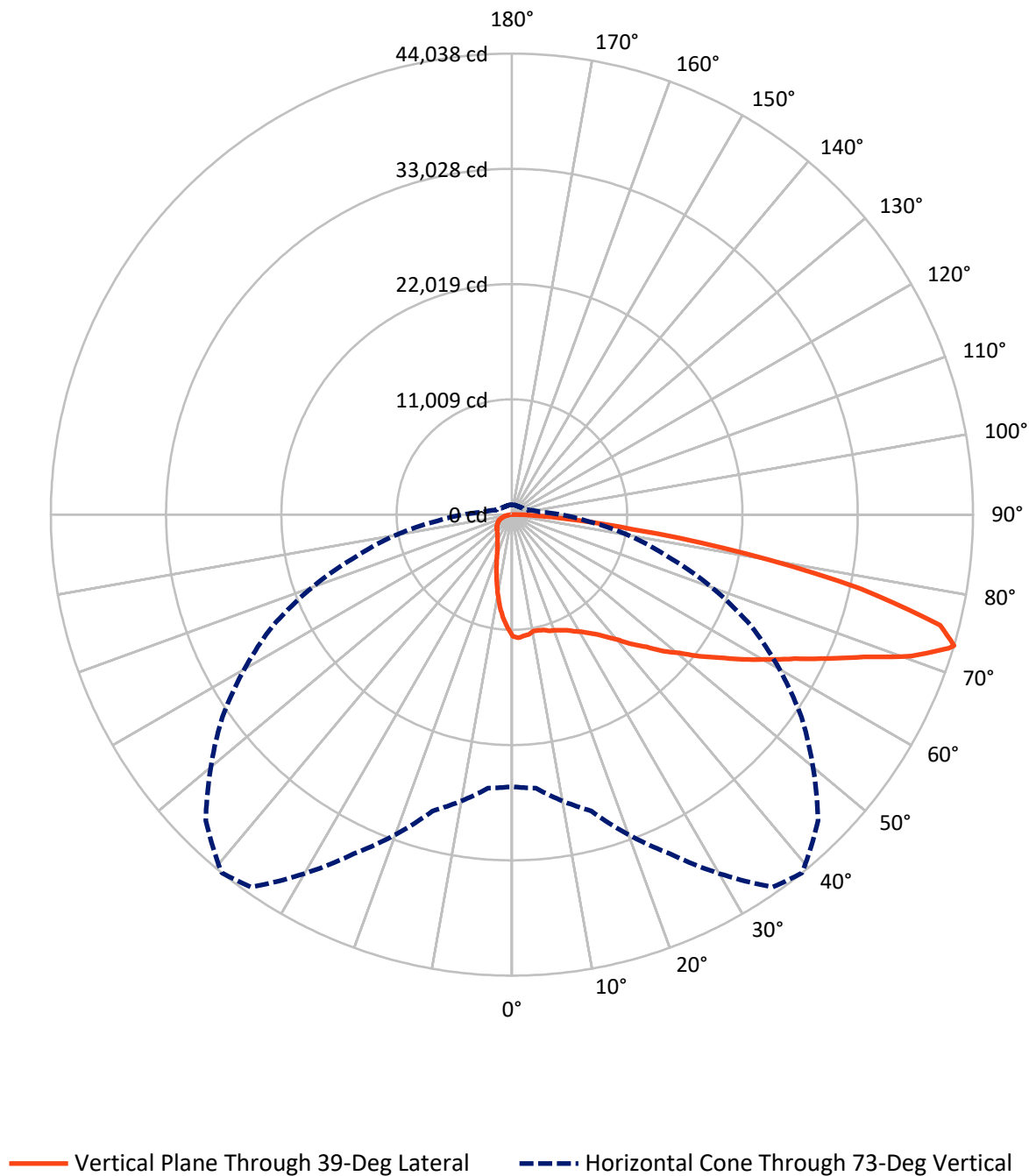


Based on 25 foot mounting height. Maximum calculated value = 18.6 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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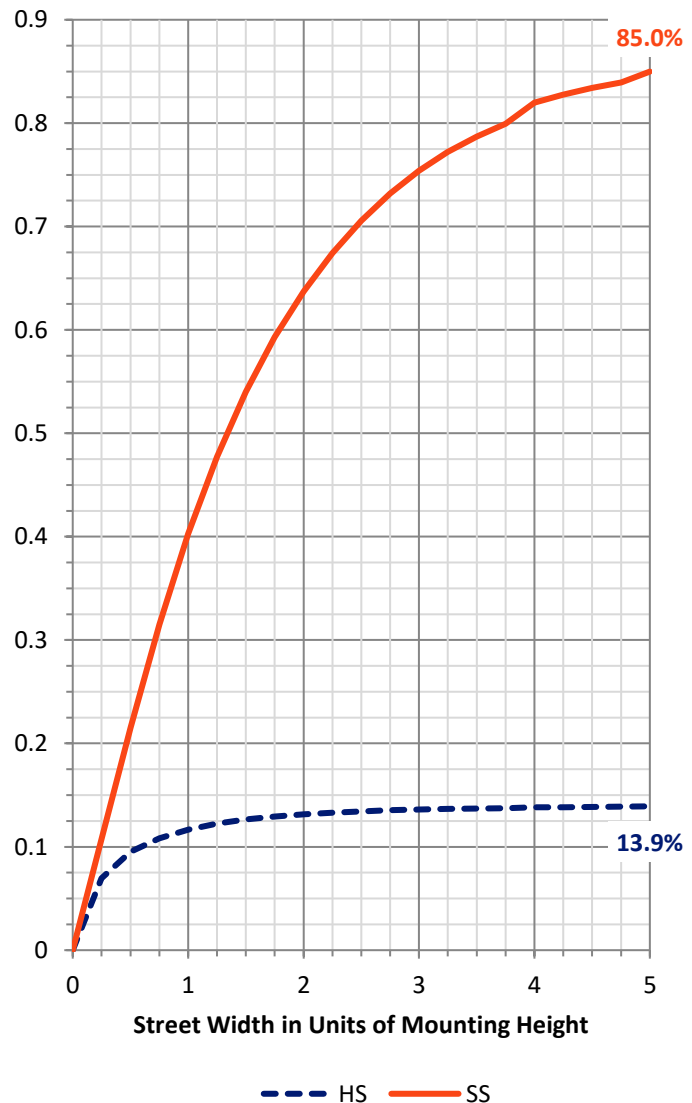
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 9181.9   | 0.0    | 9181.9  |
|                    | % Fixture | 14.1     | 0.0    | 14.1    |
| <b>Street Side</b> | Lumens    | 56136.2  | 0.0    | 56136.2 |
|                    | % Fixture | 85.9     | 0.0    | 85.9    |
| <b>Total</b>       | Lumens    | 65318.1  | 0.0    | 65318.1 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1009.3  | 1.5       |
| 10°-20°   | 2565.8  | 3.9       |
| 20°-30°   | 3920.9  | 6.0       |
| 30°-40°   | 5716.7  | 8.8       |
| 40°-50°   | 8638.6  | 13.2      |
| 50°-60°   | 12509.2 | 19.2      |
| 60°-70°   | 15893.5 | 24.3      |
| 70°-80°   | 12884.1 | 19.7      |
| 80°-90°   | 2179.9  | 3.3       |
| 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°    | 65318.1 | 100.0     |
| 0°-180°   | 65318.1 | 100.0     |

**Coefficient of Utilization**



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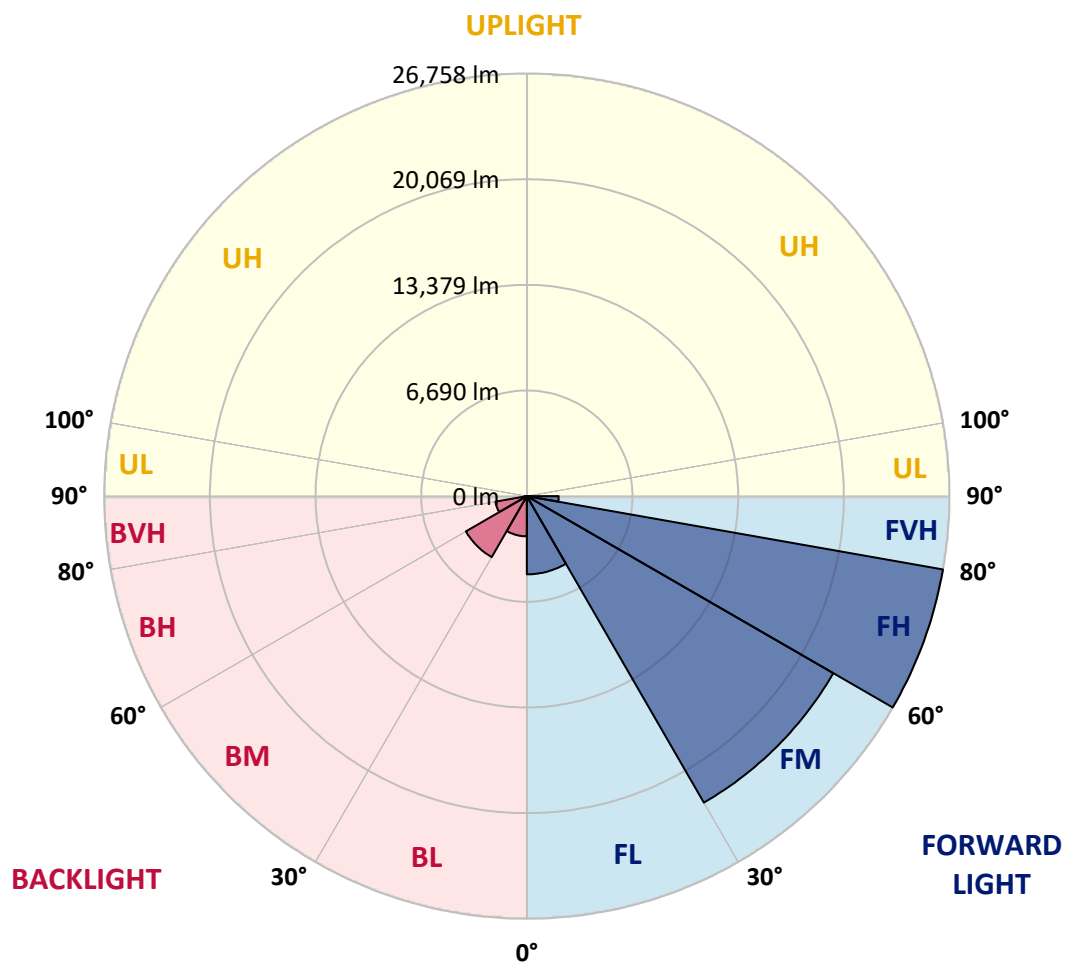
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4949.7  | 7.6       |                         |      |         |
| FM   | (30°-60°)   | 22408.3 | 34.3      |                         |      |         |
| FH   | (60°-80°)   | 26758.2 | 41.0      |                         |      | G5      |
| FVH  | (80°-90°)   | 2020.0  | 3.1       |                         |      | G5      |
| BL   | (0°-30°)    | 2546.3  | 3.9       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 4456.2  | 6.8       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2019.4  | 3.1       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 159.9   | 0.2       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 39°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11627.0 | 11627.0 | 11627.0 | 11627.0 | 11627.0 | 11627.0 | 11627.0 | 11627.0 | 11627.0 | 11627.0 | 11627.0 |
| 2.5°  | 11904.7 | 11780.5 | 11802.4 | 11758.6 | 11802.4 | 11787.8 | 11765.9 | 11656.2 | 11765.9 | 11656.2 | 11627.0 |
| 5°    | 11743.9 | 11743.9 | 11817.0 | 11707.4 | 11722.0 | 11648.9 | 11722.0 | 11641.6 | 11568.5 | 11385.8 | 11334.7 |
| 7.5°  | 11692.8 | 11685.5 | 11692.8 | 11539.3 | 11612.4 | 11568.5 | 11495.5 | 11407.8 | 11261.6 | 11144.7 | 10976.6 |
| 10°   | 11342.0 | 11415.1 | 11334.7 | 11378.5 | 11437.0 | 11305.5 | 11298.2 | 11276.2 | 11210.5 | 11057.0 | 10954.7 |
| 12.5° | 11152.0 | 11276.2 | 11320.1 | 11283.5 | 11334.7 | 11349.3 | 11305.5 | 11276.2 | 11195.8 | 11093.5 | 10801.2 |
| 15°   | 11232.4 | 11086.2 | 11210.5 | 11451.6 | 11400.5 | 11437.0 | 11444.3 | 11415.1 | 11378.5 | 11188.5 | 10998.5 |
| 17.5° | 11254.3 | 11166.6 | 11429.7 | 11480.9 | 11546.6 | 11678.2 | 11590.5 | 11583.2 | 11444.3 | 11312.8 | 11035.1 |
| 20°   | 11305.5 | 11268.9 | 11480.9 | 11751.2 | 11758.6 | 11780.5 | 11824.3 | 11714.7 | 11641.6 | 11415.1 | 10991.2 |
| 22.5° | 11495.5 | 11619.7 | 11817.0 | 11933.9 | 11999.7 | 12014.3 | 12014.3 | 11795.1 | 11714.7 | 11532.0 | 11195.8 |
| 25°   | 12065.5 | 11933.9 | 12211.7 | 12350.5 | 12255.5 | 12233.6 | 12182.4 | 11985.1 | 11897.4 | 11736.6 | 11290.8 |
| 27.5° | 12482.0 | 12474.7 | 12635.5 | 12825.5 | 12569.7 | 12620.9 | 12438.2 | 12379.7 | 12182.4 | 12094.7 | 11458.9 |
| 30°   | 13052.1 | 13212.8 | 13205.5 | 13264.0 | 12927.8 | 12986.3 | 12752.4 | 12642.8 | 12533.2 | 12584.4 | 11955.9 |
| 32.5° | 13782.9 | 13724.4 | 13819.4 | 13775.6 | 13439.4 | 13490.5 | 13212.8 | 13044.8 | 13081.3 | 13234.8 | 12635.5 |
| 35°   | 14250.6 | 14192.1 | 14228.7 | 14228.7 | 14126.3 | 14067.9 | 13951.0 | 13731.7 | 13907.1 | 14192.1 | 13395.5 |
| 37.5° | 14754.8 | 14827.9 | 15039.8 | 14996.0 | 14864.5 | 14864.5 | 14849.8 | 14696.4 | 14922.9 | 15624.5 | 14608.7 |
| 40°   | 15200.6 | 15397.9 | 15529.5 | 15617.2 | 15770.6 | 15770.6 | 15894.9 | 15807.2 | 16216.4 | 17341.9 | 16092.2 |
| 42.5° | 15668.3 | 15675.6 | 16391.8 | 16457.6 | 16801.1 | 16947.2 | 17042.2 | 17115.3 | 17882.7 | 19139.6 | 17678.0 |
| 45°   | 16267.6 | 16304.1 | 16932.6 | 17436.9 | 17970.3 | 18021.5 | 18379.6 | 18620.8 | 19563.5 | 21105.5 | 19402.7 |
| 47.5° | 17056.8 | 17013.0 | 17685.3 | 18489.2 | 19154.2 | 19505.0 | 19936.2 | 20199.3 | 21361.3 | 23239.4 | 21288.2 |
| 50°   | 18094.6 | 17963.0 | 18350.4 | 19614.6 | 20396.6 | 20783.9 | 21551.3 | 21989.7 | 23349.0 | 25278.3 | 22581.7 |
| 52.5° | 19358.9 | 19139.6 | 19446.6 | 20827.8 | 21704.7 | 22486.7 | 23217.5 | 23707.1 | 25124.9 | 26856.9 | 23539.0 |
| 55°   | 20696.2 | 20243.1 | 20330.8 | 22114.0 | 23378.3 | 24116.4 | 25117.6 | 25629.1 | 27076.1 | 28274.6 | 24496.4 |
| 57.5° | 22019.0 | 21734.0 | 21558.6 | 23349.0 | 25373.3 | 26082.2 | 27003.0 | 27668.0 | 28895.8 | 29531.6 | 25307.6 |
| 60°   | 23129.8 | 23056.7 | 22771.7 | 25263.7 | 27485.3 | 28091.9 | 29056.6 | 29465.8 | 30393.9 | 30693.6 | 25322.2 |
| 62.5° | 24043.3 | 23794.8 | 24247.9 | 26805.7 | 29633.9 | 30320.8 | 31380.5 | 31417.0 | 32074.8 | 31417.0 | 24576.8 |
| 65°   | 24759.5 | 24774.1 | 25497.6 | 28669.2 | 32118.6 | 33134.4 | 33989.5 | 33894.5 | 33470.6 | 30985.9 | 22815.5 |
| 67.5° | 25409.9 | 25687.6 | 26747.2 | 30715.5 | 35312.2 | 36269.6 | 37219.6 | 35962.6 | 33850.6 | 28968.9 | 19373.5 |
| 70°   | 25921.4 | 26199.1 | 28435.4 | 33207.5 | 39075.8 | 40479.0 | 40690.9 | 36781.1 | 32104.0 | 24540.2 | 14616.0 |
| 72.5° | 25863.0 | 26367.2 | 29392.7 | 35195.3 | 42415.6 | 43628.7 | 41918.6 | 34479.1 | 26747.2 | 17108.0 | 8528.4  |
| 73°   | 25987.2 | 26235.7 | 29312.3 | 35750.7 | 43431.4 | 44037.9 | 41348.6 | 33755.6 | 25227.2 | 15346.8 | 7213.0  |
| 75°   | 23590.2 | 24430.6 | 27858.1 | 34844.5 | 42342.5 | 42232.9 | 38074.6 | 28128.5 | 17933.8 | 8060.7  | 3493.2  |
| 77.5° | 17451.5 | 17985.0 | 21953.2 | 28654.6 | 34756.8 | 34055.2 | 28720.4 | 17977.7 | 8513.8  | 2989.0  | 1885.5  |
| 80°   | 8528.4  | 8945.0  | 11634.3 | 16545.3 | 22727.8 | 22786.3 | 17824.2 | 9354.2  | 3646.7  | 1688.1  | 1286.2  |
| 82.5° | 4260.6  | 4509.0  | 5590.6  | 7271.4  | 11181.2 | 11714.7 | 9040.0  | 5320.2  | 2258.2  | 957.3   | 730.8   |
| 85°   | 2784.3  | 2959.7  | 3442.1  | 3559.0  | 4742.9  | 5006.0  | 4209.4  | 4150.9  | 1468.9  | 518.9   | 591.9   |
| 87.5° | 1848.9  | 1878.2  | 2112.0  | 1797.8  | 1900.1  | 1827.0  | 2031.6  | 2616.3  | 431.2   | 219.2   | 160.8   |
| 90°   | 0.0     | 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°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11627.0 | 11627.0 | 11627.0 | 11627.0 | 11627.0 | 11627.0 | 11627.0 | 11627.0 | 11627.0 | 11627.0 | 11627.0 |
| 2.5°  | 11590.5 | 11488.2 | 11378.5 | 11225.1 | 11115.5 | 10947.4 | 10793.9 | 10728.1 | 10713.5 | 10720.8 | 10647.7 |
| 5°    | 11290.8 | 11144.7 | 10925.4 | 10611.2 | 10428.5 | 10150.8 | 9916.9  | 9792.7  | 9661.2  | 9683.1  | 9624.6  |
| 7.5°  | 10874.3 | 10713.5 | 10377.3 | 10011.9 | 9558.9  | 9164.2  | 8945.0  | 8638.0  | 8462.7  | 8331.1  | 8404.2  |
| 10°   | 10742.7 | 10465.0 | 9960.8  | 9456.5  | 8755.0  | 8236.1  | 7731.9  | 7381.1  | 7139.9  | 6906.1  | 7008.4  |
| 12.5° | 10677.0 | 10399.3 | 9697.7  | 8952.3  | 8046.1  | 7256.8  | 6548.0  | 6116.8  | 5773.3  | 5568.7  | 5649.1  |
| 15°   | 10618.5 | 10275.0 | 9449.2  | 8396.9  | 7381.1  | 6343.3  | 5546.8  | 4976.7  | 4647.9  | 4450.6  | 4472.5  |
| 17.5° | 10698.9 | 10209.3 | 9083.8  | 7856.1  | 6650.3  | 5539.5  | 4655.2  | 4063.2  | 3727.1  | 3602.8  | 3573.6  |
| 20°   | 10618.5 | 10136.2 | 8725.7  | 7315.3  | 5919.5  | 4772.1  | 3924.4  | 3434.8  | 3200.9  | 3098.6  | 3076.7  |
| 22.5° | 10647.7 | 9960.8  | 8353.0  | 6716.0  | 5239.8  | 4129.0  | 3434.8  | 3062.0  | 2879.3  | 2828.2  | 2842.8  |
| 25°   | 10786.6 | 9858.5  | 7980.3  | 6058.3  | 4567.5  | 3654.0  | 3120.5  | 2835.5  | 2704.0  | 2652.8  | 2667.4  |
| 27.5° | 10888.9 | 9946.2  | 7644.2  | 5437.1  | 3997.5  | 3230.1  | 2857.4  | 2667.4  | 2579.7  | 2543.2  | 2535.9  |
| 30°   | 11144.7 | 9997.3  | 7315.3  | 4881.7  | 3529.8  | 2952.4  | 2674.7  | 2521.3  | 2462.8  | 2440.9  | 2433.6  |
| 32.5° | 11524.7 | 10092.3 | 6935.3  | 4370.2  | 3186.3  | 2689.3  | 2528.6  | 2397.0  | 2382.4  | 2360.5  | 2367.8  |
| 35°   | 12145.9 | 10421.2 | 6511.4  | 3931.7  | 2857.4  | 2513.9  | 2375.1  | 2287.4  | 2287.4  | 2287.4  | 2309.3  |
| 37.5° | 13037.5 | 10881.6 | 6131.4  | 3515.1  | 2645.5  | 2360.5  | 2243.6  | 2214.3  | 2199.7  | 2221.6  | 2236.2  |
| 40°   | 14184.8 | 11437.0 | 5824.5  | 3186.3  | 2462.8  | 2258.2  | 2155.9  | 2141.2  | 2133.9  | 2126.6  | 2141.2  |
| 42.5° | 15441.8 | 12145.9 | 5561.4  | 2930.5  | 2331.2  | 2148.5  | 2075.5  | 2060.9  | 2031.6  | 2046.2  | 2068.2  |
| 45°   | 16691.4 | 13022.8 | 5327.5  | 2725.9  | 2243.6  | 2090.1  | 1987.8  | 1980.5  | 1965.8  | 1958.5  | 1995.1  |
| 47.5° | 18080.0 | 13885.2 | 5254.4  | 2601.6  | 2177.8  | 2002.4  | 1929.3  | 1922.0  | 1878.2  | 1870.8  | 1900.1  |
| 50°   | 19161.5 | 14521.0 | 5334.8  | 2543.2  | 2082.8  | 1936.6  | 1885.5  | 1848.9  | 1812.4  | 1775.8  | 1775.8  |
| 52.5° | 19907.0 | 14959.5 | 5393.3  | 2499.3  | 2031.6  | 1848.9  | 1783.1  | 1768.5  | 1732.0  | 1695.5  | 1680.8  |
| 55°   | 20579.3 | 15222.5 | 5407.9  | 2506.6  | 1980.5  | 1746.6  | 1702.8  | 1695.5  | 1673.5  | 1615.1  | 1600.4  |
| 57.5° | 20805.8 | 15112.9 | 5115.6  | 2440.9  | 1951.2  | 1680.8  | 1622.4  | 1637.0  | 1607.8  | 1556.6  | 1549.3  |
| 60°   | 20783.9 | 14352.9 | 4450.6  | 2353.2  | 1885.5  | 1607.8  | 1534.7  | 1578.5  | 1578.5  | 1520.1  | 1512.8  |
| 62.5° | 19519.6 | 12599.0 | 3639.4  | 2185.1  | 1812.4  | 1534.7  | 1454.3  | 1520.1  | 1542.0  | 1505.4  | 1498.1  |
| 65°   | 16896.1 | 10260.4 | 3040.1  | 2017.0  | 1702.8  | 1454.3  | 1373.9  | 1447.0  | 1483.5  | 1468.9  | 1461.6  |
| 67.5° | 13980.2 | 7848.8  | 2528.6  | 1797.8  | 1563.9  | 1344.7  | 1278.9  | 1330.1  | 1352.0  | 1359.3  | 1366.6  |
| 70°   | 9880.4  | 5225.2  | 2112.0  | 1556.6  | 1373.9  | 1227.7  | 1154.7  | 1162.0  | 1154.7  | 1176.6  | 1176.6  |
| 72.5° | 5371.4  | 3010.9  | 1717.4  | 1322.7  | 1183.9  | 1067.0  | 1015.8  | 979.3   | 979.3   | 972.0   | 972.0   |
| 73°   | 4596.7  | 2704.0  | 1637.0  | 1286.2  | 1132.7  | 1037.7  | 979.3   | 950.0   | 950.0   | 942.7   | 935.4   |
| 75°   | 2579.7  | 1980.5  | 1403.1  | 1103.5  | 979.3   | 906.2   | 862.3   | 818.5   | 811.2   | 811.2   | 811.2   |
| 77.5° | 1695.5  | 1542.0  | 1118.1  | 884.3   | 789.3   | 723.5   | 708.9   | 665.0   | 665.0   | 665.0   | 657.7   |
| 80°   | 1271.6  | 1213.1  | 862.3   | 672.3   | 606.6   | 555.4   | 540.8   | 511.6   | 504.3   | 475.0   | 482.3   |
| 82.5° | 847.7   | 957.3   | 628.5   | 475.0   | 409.2   | 380.0   | 380.0   | 372.7   | 350.8   | 314.2   | 314.2   |
| 85°   | 672.3   | 782.0   | 453.1   | 292.3   | 241.2   | 204.6   | 211.9   | 204.6   | 197.3   | 160.8   | 153.5   |
| 87.5° | 124.2   | 314.2   | 131.5   | 80.4    | 58.5    | 36.5    | 36.5    | 21.9    | 14.6    | 0.0     | 0.0     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)