

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: P575163

Luminaire Tested: **EPH-VN-03-730-U-T2R-HSS**

Issue Date: 10/19/2021

Test Information

Test Method: LM-79-08
Report Number: P575163
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-03-730-U-T2R-HSS
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ T2R distribution lens and House Side Shield
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

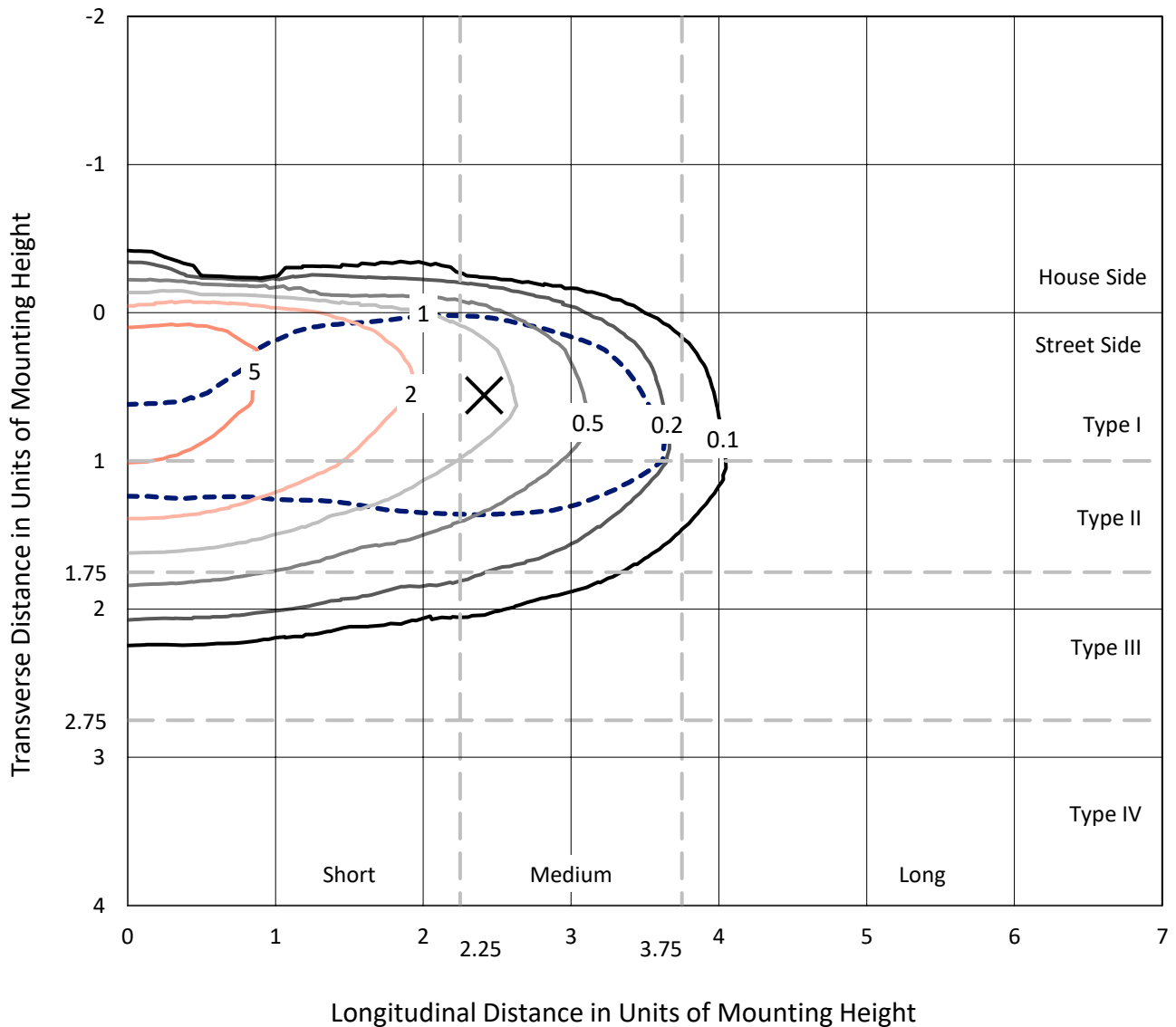
Lumens per Lamp: N/A
Luminaire Lumens: 16686.4 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 184.1
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

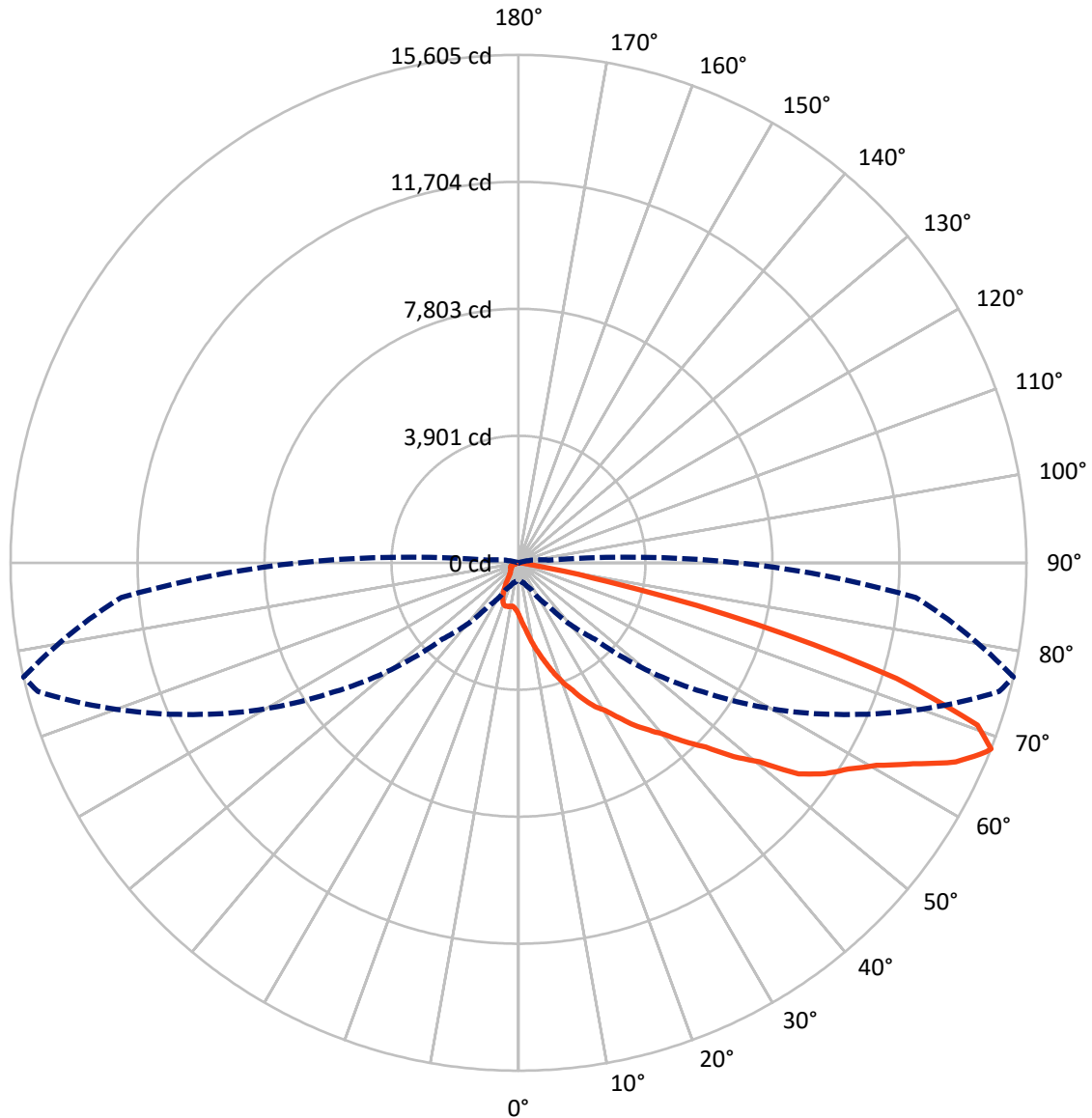
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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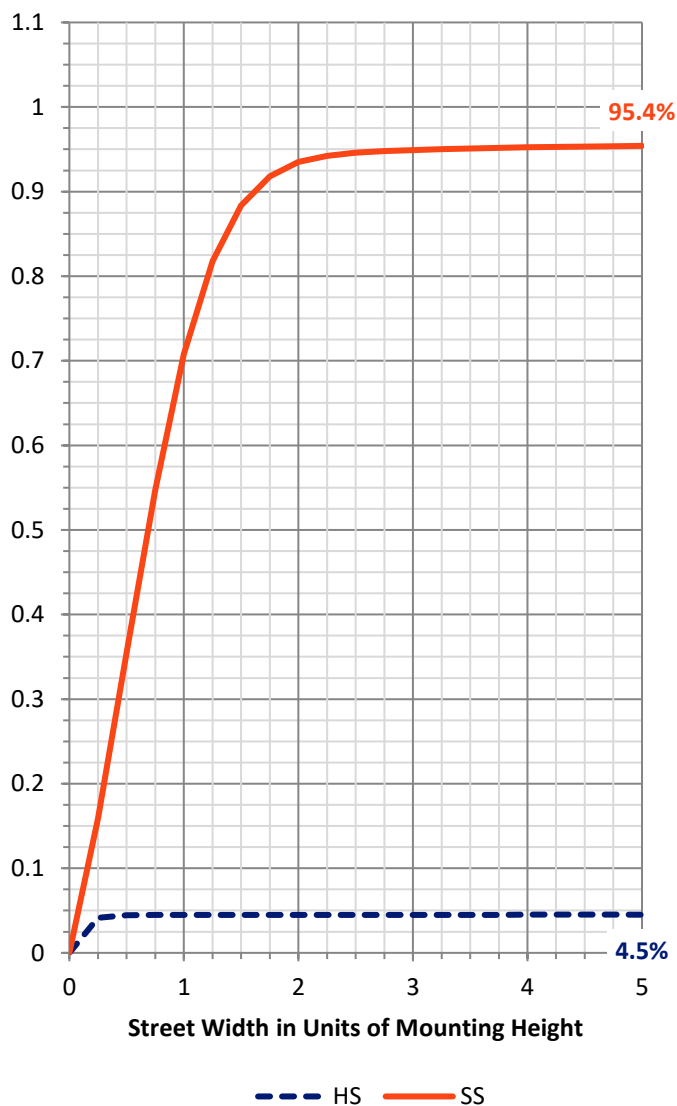
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 756.7 | 0.0 | 756.7 |
| | % Fixture | 4.5 | 0.0 | 4.5 |
| Street Side | Lumens | 15929.7 | 0.0 | 15929.7 |
| | % Fixture | 95.5 | 0.0 | 95.5 |
| Total | Lumens | 16686.4 | 0.0 | 16686.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 186.7 | 1.1 |
| 10°-20° | 688.4 | 4.1 |
| 20°-30° | 1334.2 | 8.0 |
| 30°-40° | 2325.9 | 13.9 |
| 40°-50° | 3406.5 | 20.4 |
| 50°-60° | 4002.1 | 24.0 |
| 60°-70° | 3379.4 | 20.3 |
| 70°-80° | 1309.9 | 7.9 |
| 80°-90° | 53.3 | 0.3 |
| 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° | 16686.4 | 100.0 |
| 0°-180° | 16686.4 | 100.0 |

Coefficient of Utilization



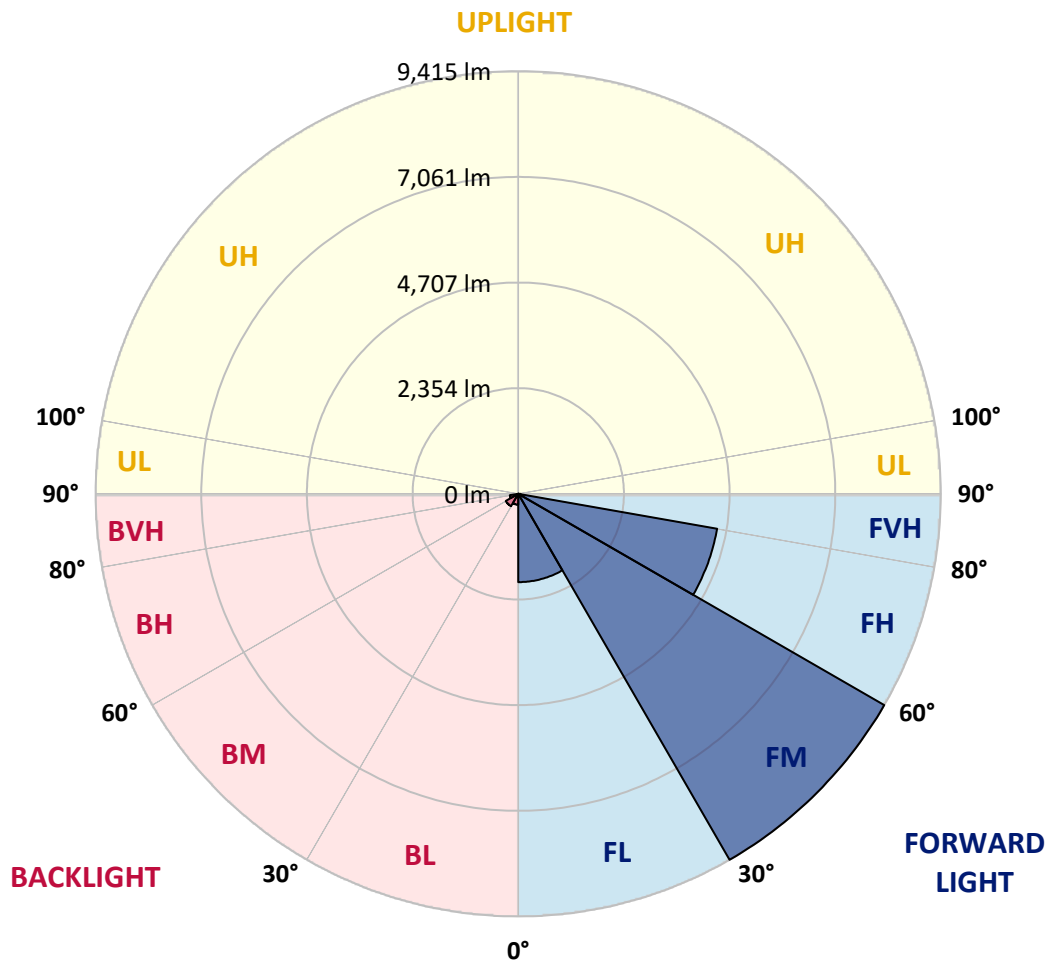
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1967.5 | 11.8 | | | |
| FM (30°-60°) | 9414.8 | 56.4 | | | |
| FH (60°-80°) | 4498.3 | 27.0 | | | G2/5000 |
| FVH (80°-90°) | 49.1 | 0.3 | | | G1/100 |
| BL (0°-30°) | 241.8 | 1.4 | B1/500 | | |
| BM (30°-60°) | 319.8 | 1.9 | B1/1000 | | |
| BH (60°-80°) | 191.1 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.1 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 77° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 1597.8 | 1597.8 | 1597.8 | 1597.8 | 1597.8 | 1597.8 | 1597.8 | 1597.8 | 1597.8 | 1597.8 |
| 2.5° | 2427.7 | 2381.7 | 2333.4 | 2319.6 | 2230.0 | 2128.8 | 2034.5 | 1942.6 | 1788.6 | 1790.9 |
| 5° | 3128.8 | 3071.4 | 3032.3 | 3023.1 | 2882.9 | 2708.1 | 2565.6 | 2305.8 | 2050.6 | 1993.2 |
| 7.5° | 3705.9 | 3687.5 | 3630.0 | 3581.7 | 3478.3 | 3264.5 | 3096.6 | 2724.2 | 2335.7 | 2271.3 |
| 10° | 4055.3 | 4082.9 | 4108.2 | 4046.1 | 3965.6 | 3811.6 | 3581.7 | 3179.4 | 2659.9 | 2579.4 |
| 12.5° | 4427.7 | 4381.7 | 4397.8 | 4448.4 | 4342.7 | 4308.2 | 4023.1 | 3648.4 | 3039.2 | 2885.1 |
| 15° | 4524.3 | 4542.7 | 4581.8 | 4728.9 | 4800.2 | 4701.3 | 4455.3 | 4027.7 | 3432.3 | 3218.5 |
| 17.5° | 4588.7 | 4579.5 | 4627.7 | 4848.4 | 4956.5 | 5050.7 | 4896.7 | 4450.7 | 3774.8 | 3584.0 |
| 20° | 4669.1 | 4618.5 | 4724.3 | 4864.5 | 5115.1 | 5312.8 | 5305.9 | 4876.0 | 4133.5 | 3931.2 |
| 22.5° | 4968.0 | 4928.9 | 5014.0 | 5027.7 | 5202.5 | 5478.3 | 5545.0 | 5223.2 | 4501.3 | 4253.0 |
| 25° | 5519.7 | 5591.0 | 5489.8 | 5402.5 | 5455.3 | 5637.0 | 5685.2 | 5531.2 | 4871.4 | 4643.8 |
| 27.5° | 6326.6 | 6317.4 | 6117.4 | 6004.8 | 5878.3 | 5855.4 | 5889.8 | 5818.6 | 5163.4 | 5000.2 |
| 30° | 7193.3 | 7117.5 | 6933.6 | 6662.3 | 6384.1 | 6211.7 | 6163.4 | 6089.8 | 5505.9 | 5269.1 |
| 32.5° | 7883.0 | 7924.4 | 7719.8 | 7365.8 | 6903.7 | 6671.5 | 6439.3 | 6358.8 | 5882.9 | 5673.7 |
| 35° | 8517.5 | 8462.3 | 8299.1 | 8000.3 | 7586.4 | 7211.7 | 6848.5 | 6676.1 | 6335.8 | 6128.9 |
| 37.5° | 8986.5 | 9055.5 | 8745.1 | 8460.0 | 8048.5 | 7738.2 | 7381.8 | 7004.8 | 6802.5 | 6526.6 |
| 40° | 9430.2 | 9322.1 | 9112.9 | 8850.9 | 8469.2 | 8232.4 | 7998.0 | 7409.4 | 7299.1 | 6942.7 |
| 42.5° | 9352.0 | 9358.9 | 9244.0 | 9032.5 | 8756.6 | 8621.0 | 8540.5 | 7901.4 | 7749.7 | 7522.1 |
| 45° | 9032.5 | 9060.1 | 9099.1 | 8995.7 | 9018.7 | 8883.0 | 9099.1 | 8466.9 | 8317.5 | 8076.1 |
| 47.5° | 8680.7 | 8726.7 | 8717.5 | 8906.0 | 9119.8 | 9165.8 | 9706.1 | 9094.5 | 9030.2 | 8896.8 |
| 50° | 8096.8 | 8115.2 | 8292.2 | 8634.8 | 8926.7 | 9407.2 | 10161.2 | 9779.6 | 9878.5 | 9616.4 |
| 52.5° | 7099.1 | 7165.7 | 7620.9 | 8110.6 | 8699.1 | 9529.0 | 10469.3 | 10798.0 | 11048.6 | 10779.7 |
| 55° | 5837.0 | 5928.9 | 6377.2 | 7294.5 | 8156.6 | 9345.1 | 10749.8 | 11336.0 | 11844.1 | 11437.1 |
| 57.5° | 4696.7 | 4705.9 | 5108.2 | 6055.4 | 7386.4 | 8984.2 | 10892.3 | 11598.1 | 12280.8 | 11954.4 |
| 60° | 3579.4 | 3542.6 | 3903.6 | 4724.3 | 6089.8 | 8096.8 | 10536.0 | 11731.4 | 12825.7 | 12637.2 |
| 62.5° | 2303.5 | 2246.0 | 2639.2 | 3439.2 | 4756.5 | 6618.6 | 9823.3 | 11733.7 | 13676.3 | 13605.0 |
| 65° | 1140.3 | 1101.2 | 1439.1 | 2108.1 | 3292.1 | 5062.2 | 8807.2 | 11690.0 | 14715.4 | 14761.4 |
| 67.5° | 602.3 | 616.1 | 724.2 | 1069.0 | 1898.9 | 3577.1 | 7276.1 | 11177.4 | 15246.5 | 15503.9 |
| 68° | 554.0 | 558.6 | 643.7 | 889.7 | 1648.3 | 3317.3 | 6912.9 | 11027.9 | 15287.8 | 15605.1 |
| 70° | 450.6 | 457.5 | 487.4 | 558.6 | 892.0 | 2158.7 | 5333.5 | 9758.9 | 14664.8 | 14954.5 |
| 72.5° | 358.6 | 379.3 | 397.7 | 427.6 | 524.2 | 1133.4 | 3317.3 | 7604.8 | 12115.3 | 12147.5 |
| 75° | 273.6 | 289.7 | 326.4 | 351.7 | 409.2 | 623.0 | 1579.4 | 4636.9 | 7949.7 | 7558.9 |
| 77.5° | 211.5 | 225.3 | 241.4 | 275.9 | 342.5 | 420.7 | 482.8 | 1967.9 | 3377.1 | 2779.4 |
| 80° | 126.4 | 135.6 | 188.5 | 216.1 | 298.9 | 285.1 | 190.8 | 547.1 | 685.1 | 540.2 |
| 82.5° | 73.6 | 80.5 | 108.0 | 165.5 | 209.2 | 154.0 | 112.6 | 170.1 | 167.8 | 147.1 |
| 85° | 2.3 | 4.6 | 59.8 | 98.9 | 73.6 | 41.4 | 69.0 | 71.3 | 59.8 | 55.2 |
| 87.5° | 0.0 | 2.3 | 16.1 | 13.8 | 16.1 | 9.2 | 13.8 | 18.4 | 23.0 | 20.7 |
| 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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CATALOG NUMBER: EPH-VN-03-730-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1597.8 | 0° | 1597.8 | 1597.8 | 1597.8 | 1597.8 | 1597.8 | 1597.8 | 1597.8 | 1597.8 | 1597.8 | 1597.8 |
| 1685.1 | 2.5° | 1613.8 | 1563.3 | 1450.6 | 1365.6 | 1273.6 | 1218.4 | 1163.3 | 1128.8 | 1110.4 | 1098.9 |
| 1800.1 | 5° | 1655.2 | 1549.5 | 1367.9 | 1206.9 | 1101.2 | 1029.9 | 958.7 | 921.9 | 887.4 | 869.0 |
| 1940.3 | 7.5° | 1747.2 | 1588.6 | 1287.4 | 1112.7 | 988.5 | 878.2 | 788.5 | 717.3 | 675.9 | 639.1 |
| 2121.9 | 10° | 1859.8 | 1611.5 | 1289.7 | 1057.5 | 878.2 | 703.5 | 577.0 | 487.4 | 436.8 | 404.6 |
| 2351.8 | 12.5° | 1974.8 | 1701.2 | 1298.9 | 1002.3 | 742.6 | 528.8 | 379.3 | 312.7 | 282.8 | 266.7 |
| 2565.6 | 15° | 2149.5 | 1781.7 | 1275.9 | 901.2 | 563.2 | 344.8 | 259.8 | 236.8 | 225.3 | 211.5 |
| 2832.3 | 17.5° | 2301.2 | 1910.4 | 1264.4 | 749.4 | 386.2 | 248.3 | 216.1 | 190.8 | 179.3 | 165.5 |
| 3096.6 | 20° | 2505.8 | 1990.9 | 1202.3 | 579.3 | 266.7 | 206.9 | 174.7 | 151.7 | 133.3 | 121.8 |
| 3381.7 | 22.5° | 2692.0 | 2052.9 | 1092.0 | 395.4 | 204.6 | 163.2 | 128.7 | 105.8 | 89.7 | 75.9 |
| 3666.8 | 25° | 2894.3 | 2115.0 | 931.1 | 243.7 | 144.8 | 101.2 | 69.0 | 50.6 | 34.5 | 25.3 |
| 3901.3 | 27.5° | 3039.2 | 2133.4 | 721.9 | 144.8 | 87.4 | 46.0 | 16.1 | 2.3 | 0.0 | 0.0 |
| 4133.5 | 30° | 3186.3 | 2140.3 | 498.9 | 78.2 | 34.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4400.1 | 32.5° | 3354.1 | 2138.0 | 312.7 | 41.4 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 4694.4 | 35° | 3482.9 | 2098.9 | 149.4 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5053.0 | 37.5° | 3678.3 | 2041.4 | 46.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5457.6 | 40° | 3901.3 | 1938.0 | 9.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5853.1 | 42.5° | 4101.3 | 1832.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6308.2 | 45° | 4328.9 | 1701.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 6938.2 | 47.5° | 4728.9 | 1646.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 7687.6 | 50° | 5250.7 | 1602.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 8407.2 | 52.5° | 5572.6 | 1473.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 8844.0 | 55° | 5740.4 | 1340.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 9377.3 | 57.5° | 5988.7 | 1275.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 10018.7 | 60° | 6356.5 | 1280.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11092.3 | 62.5° | 6931.3 | 1344.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12138.3 | 65° | 7248.5 | 1280.5 | 9.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12391.2 | 67.5° | 6979.5 | 1025.3 | 43.7 | 11.5 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 12251.0 | 68° | 6747.3 | 942.6 | 43.7 | 11.5 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 11090.0 | 70° | 5577.2 | 613.8 | 41.4 | 11.5 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 8632.5 | 72.5° | 4062.2 | 340.2 | 34.5 | 9.2 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 5085.2 | 75° | 2363.3 | 170.1 | 25.3 | 9.2 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1436.8 | 77.5° | 616.1 | 85.1 | 20.7 | 11.5 | 6.9 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 |
| 262.1 | 80° | 121.8 | 55.2 | 18.4 | 13.8 | 9.2 | 4.6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.4 | 82.5° | 57.5 | 39.1 | 18.4 | 13.8 | 11.5 | 6.9 | 2.3 | 0.0 | 0.0 | 0.0 |
| 39.1 | 85° | 29.9 | 18.4 | 18.4 | 13.8 | 13.8 | 9.2 | 4.6 | 0.0 | 0.0 | 0.0 |
| 16.1 | 87.5° | 13.8 | 6.9 | 6.9 | 6.9 | 6.9 | 4.6 | 2.3 | 0.0 | 0.0 | 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 |

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