

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: P575065

Luminaire Tested: **EPH-VN-07-750-U-SL4**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575065
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-07-750-U-SL4
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

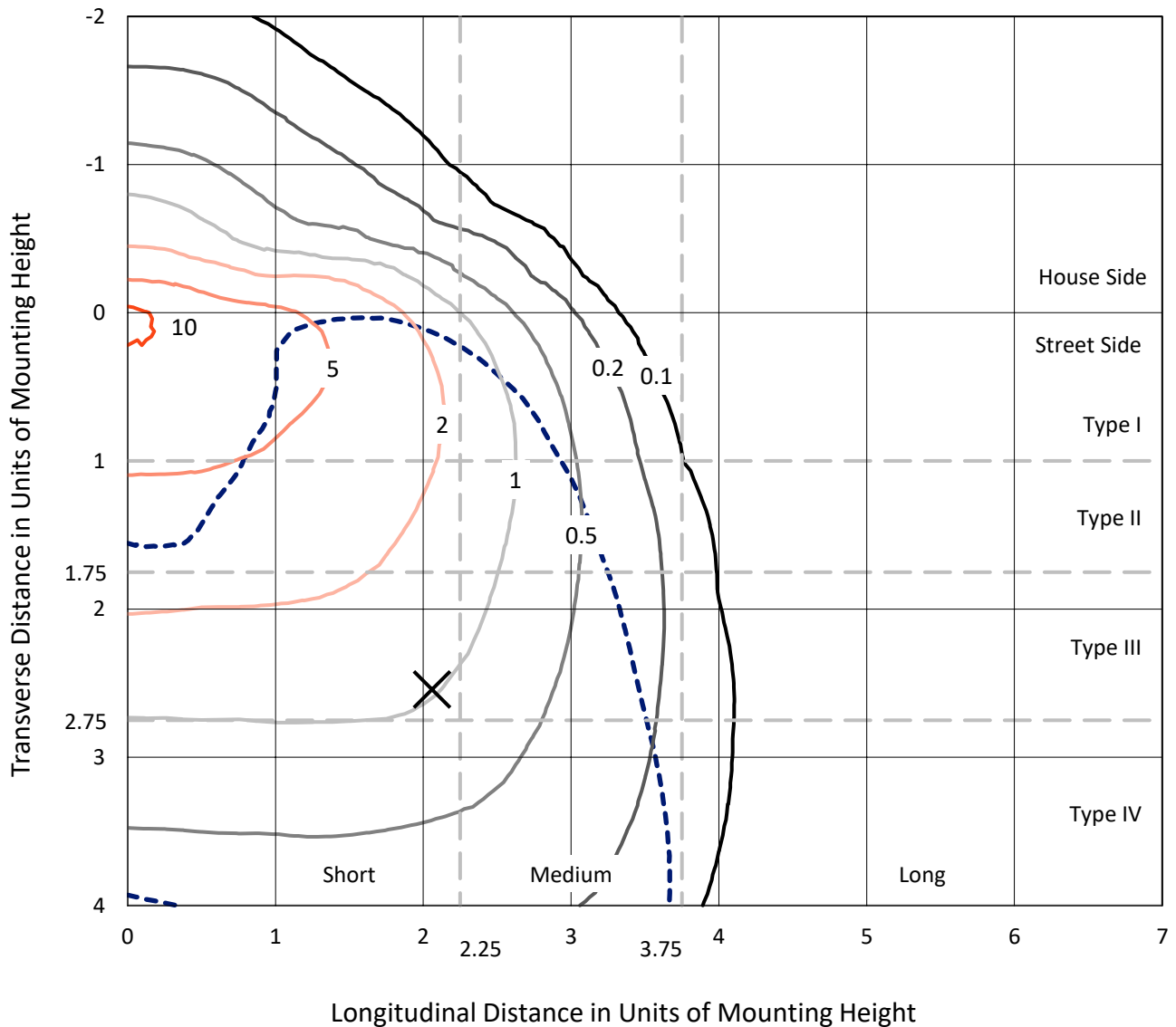
Lumens per Lamp: N/A
Luminaire Lumens: 55854.8 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

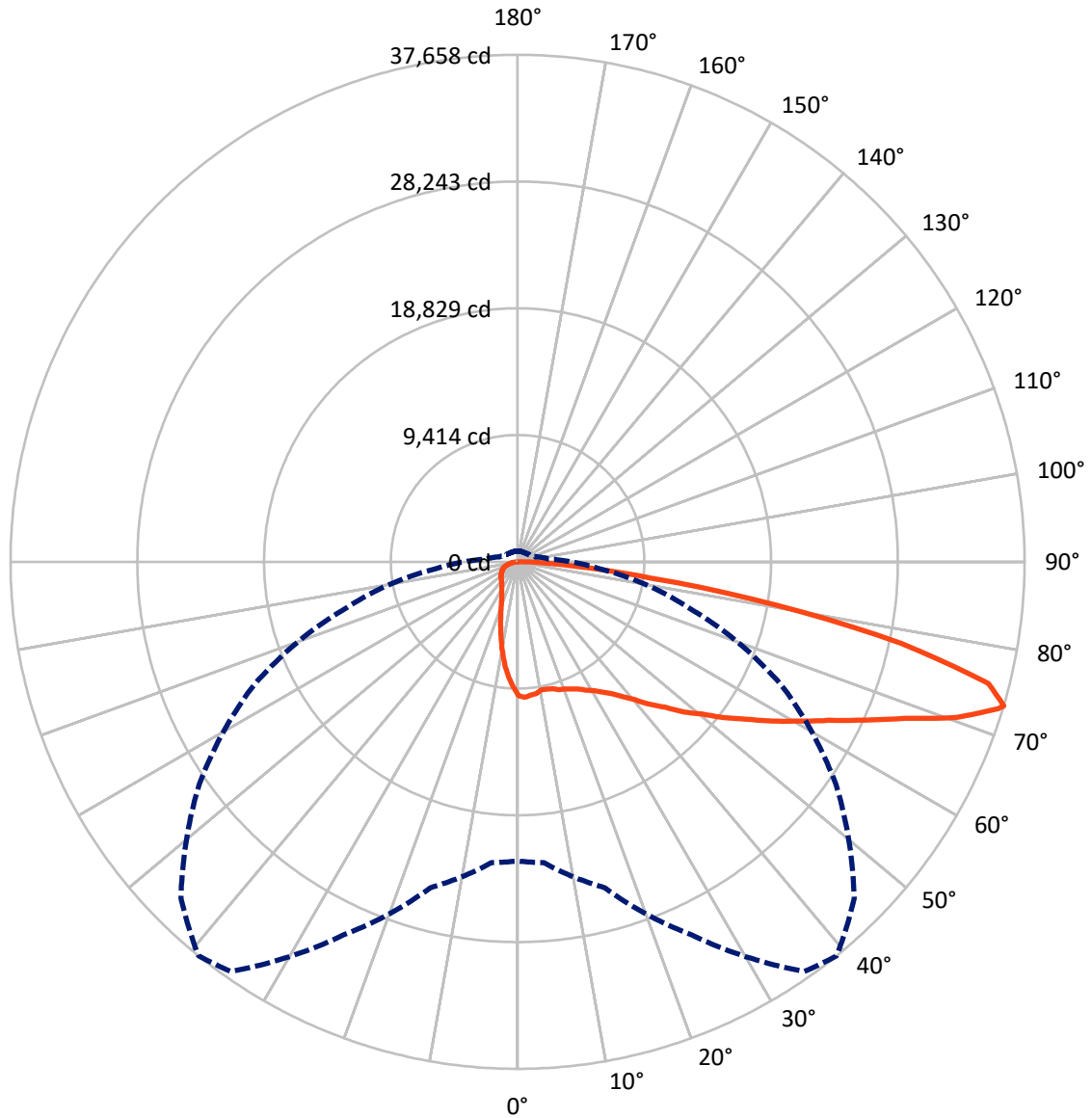
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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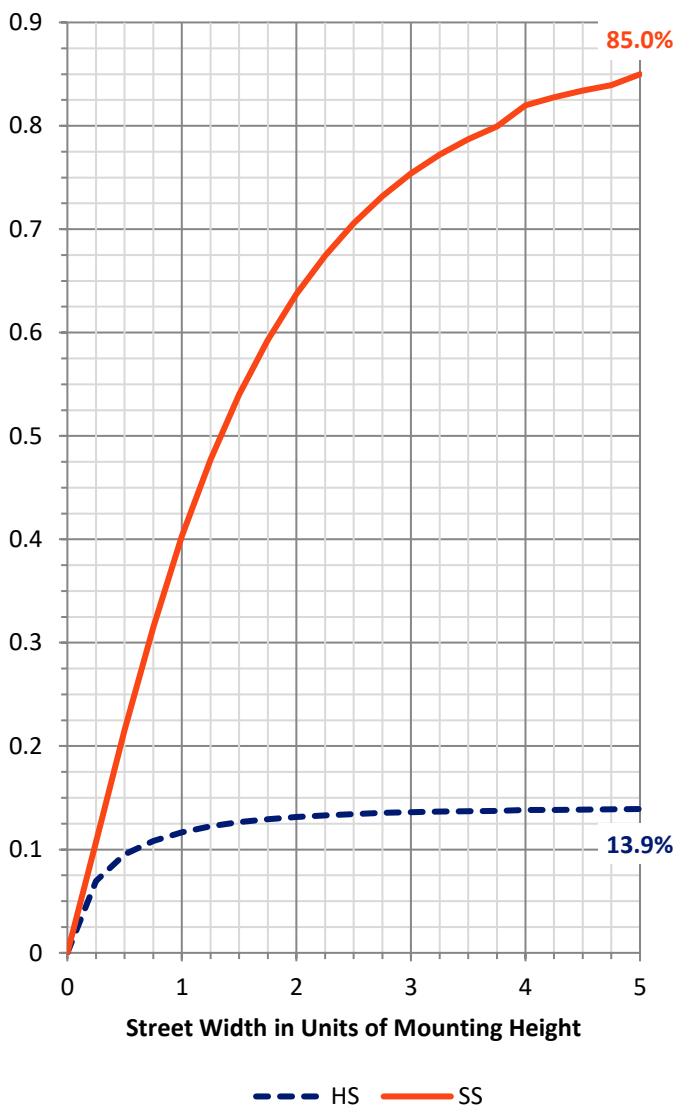
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7851.6 | 0.0 | 7851.6 |
| | % Fixture | 14.1 | 0.0 | 14.1 |
| Street Side | Lumens | 48003.2 | 0.0 | 48003.2 |
| | % Fixture | 85.9 | 0.0 | 85.9 |
| Total | Lumens | 55854.8 | 0.0 | 55854.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 863.1 | 1.5 |
| 10°-20° | 2194.1 | 3.9 |
| 20°-30° | 3352.8 | 6.0 |
| 30°-40° | 4888.5 | 8.8 |
| 40°-50° | 7387.0 | 13.2 |
| 50°-60° | 10696.8 | 19.2 |
| 60°-70° | 13590.8 | 24.3 |
| 70°-80° | 11017.5 | 19.7 |
| 80°-90° | 1864.1 | 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° | 55854.8 | 100.0 |
| 0°-180° | 55854.8 | 100.0 |

Coefficient of Utilization



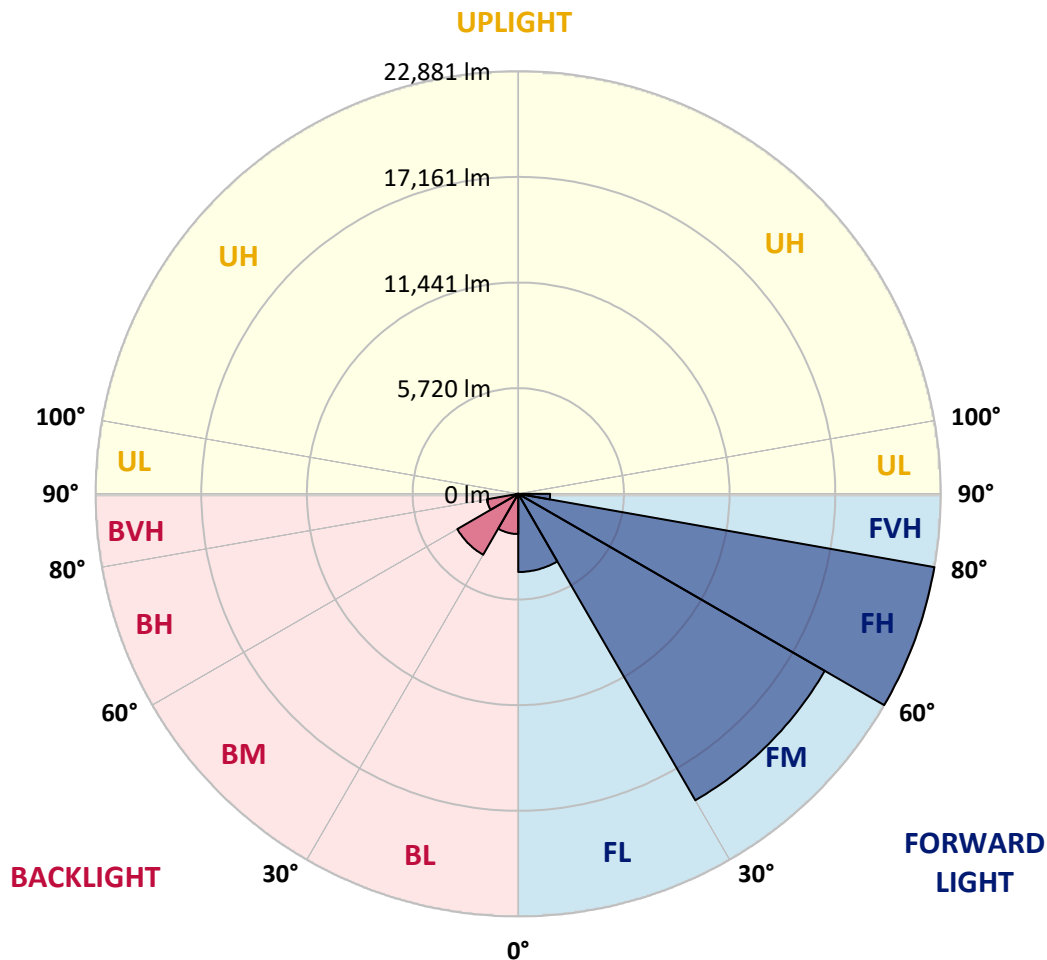
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4232.6 | 7.6 | | | |
| FM (30°-60°) | 19161.8 | 34.3 | | | |
| FH (60°-80°) | 22881.5 | 41.0 | | | G5 |
| FVH (80°-90°) | 1727.3 | 3.1 | | | G5 |
| BL (0°-30°) | 2177.4 | 3.9 | B3/2500 | | |
| BM (30°-60°) | 3810.6 | 6.8 | B3/5000 | | |
| BH (60°-80°) | 1726.9 | 3.1 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 136.8 | 0.2 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9942.5 | 9942.5 | 9942.5 | 9942.5 | 9942.5 | 9942.5 | 9942.5 | 9942.5 | 9942.5 | 9942.5 |
| 2.5° | 10180.0 | 10073.7 | 10092.5 | 10055.0 | 10092.5 | 10080.0 | 10061.2 | 9967.5 | 10061.2 | 9967.5 |
| 5° | 10042.5 | 10042.5 | 10105.0 | 10011.2 | 10023.7 | 9961.2 | 10023.7 | 9955.0 | 9892.5 | 9736.3 |
| 7.5° | 9998.7 | 9992.5 | 9998.7 | 9867.5 | 9930.0 | 9892.5 | 9830.0 | 9755.0 | 9630.0 | 9530.0 |
| 10° | 9698.8 | 9761.3 | 9692.5 | 9730.0 | 9780.0 | 9667.5 | 9661.3 | 9642.5 | 9586.3 | 9455.1 |
| 12.5° | 9536.3 | 9642.5 | 9680.0 | 9648.8 | 9692.5 | 9705.0 | 9667.5 | 9642.5 | 9573.8 | 9486.3 |
| 15° | 9605.0 | 9480.0 | 9586.3 | 9792.5 | 9748.8 | 9780.0 | 9786.3 | 9761.3 | 9730.0 | 9567.5 |
| 17.5° | 9623.8 | 9548.8 | 9773.8 | 9817.5 | 9873.7 | 9986.2 | 9911.2 | 9905.0 | 9786.3 | 9673.8 |
| 20° | 9667.5 | 9636.3 | 9817.5 | 10048.7 | 10055.0 | 10073.7 | 10111.2 | 10017.5 | 9955.0 | 9761.3 |
| 22.5° | 9830.0 | 9936.2 | 10105.0 | 10205.0 | 10261.2 | 10273.7 | 10273.7 | 10086.2 | 10017.5 | 9861.3 |
| 25° | 10317.4 | 10205.0 | 10442.4 | 10561.2 | 10479.9 | 10461.2 | 10417.4 | 10248.7 | 10173.7 | 10036.2 |
| 27.5° | 10673.6 | 10667.4 | 10804.9 | 10967.4 | 10748.6 | 10792.4 | 10636.2 | 10586.2 | 10417.4 | 10342.4 |
| 30° | 11161.1 | 11298.6 | 11292.3 | 11342.3 | 11054.9 | 11104.8 | 10904.9 | 10811.1 | 10717.4 | 10761.1 |
| 32.5° | 11786.0 | 11736.0 | 11817.3 | 11779.8 | 11492.3 | 11536.0 | 11298.6 | 11154.8 | 11186.1 | 11317.3 |
| 35° | 12186.0 | 12136.0 | 12167.2 | 12167.2 | 12079.7 | 12029.7 | 11929.7 | 11742.3 | 11892.2 | 12136.0 |
| 37.5° | 12617.2 | 12679.6 | 12860.9 | 12823.4 | 12710.9 | 12710.9 | 12698.4 | 12567.2 | 12760.9 | 13360.8 |
| 40° | 12998.4 | 13167.1 | 13279.6 | 13354.6 | 13485.8 | 13485.8 | 13592.0 | 13517.0 | 13867.0 | 14829.4 |
| 42.5° | 13398.3 | 13404.6 | 14017.0 | 14073.2 | 14366.9 | 14491.9 | 14573.2 | 14635.6 | 15291.8 | 16366.7 |
| 45° | 13910.7 | 13942.0 | 14479.4 | 14910.6 | 15366.8 | 15410.5 | 15716.8 | 15923.0 | 16729.1 | 18047.7 |
| 47.5° | 14585.7 | 14548.2 | 15123.1 | 15810.5 | 16379.2 | 16679.1 | 17047.8 | 17272.8 | 18266.4 | 19872.5 |
| 50° | 15473.0 | 15360.6 | 15691.8 | 16772.9 | 17441.5 | 17772.7 | 18428.9 | 18803.9 | 19966.2 | 21616.0 |
| 52.5° | 16554.2 | 16366.7 | 16629.1 | 17810.2 | 18560.2 | 19228.8 | 19853.7 | 20272.4 | 21484.8 | 22965.8 |
| 55° | 17697.8 | 17310.3 | 17385.3 | 18910.1 | 19991.2 | 20622.4 | 21478.5 | 21916.0 | 23153.3 | 24178.2 |
| 57.5° | 18828.9 | 18585.1 | 18435.2 | 19966.2 | 21697.3 | 22303.4 | 23090.8 | 23659.5 | 24709.4 | 25253.1 |
| 60° | 19778.7 | 19716.3 | 19472.5 | 21603.5 | 23503.3 | 24022.0 | 24846.9 | 25196.8 | 25990.5 | 26246.7 |
| 62.5° | 20559.9 | 20347.4 | 20734.9 | 22922.1 | 25340.5 | 25928.0 | 26834.1 | 26865.3 | 27427.8 | 26865.3 |
| 65° | 21172.3 | 21184.8 | 21803.5 | 24515.6 | 27465.3 | 28333.9 | 29065.1 | 28983.8 | 28621.4 | 26496.6 |
| 67.5° | 21728.5 | 21966.0 | 22872.1 | 26265.4 | 30196.2 | 31014.8 | 31827.2 | 30752.4 | 28946.3 | 24771.9 |
| 70° | 22165.9 | 22403.4 | 24315.7 | 28396.4 | 33414.5 | 34614.4 | 34795.6 | 31452.3 | 27452.8 | 20984.8 |
| 72.5° | 22115.9 | 22547.1 | 25134.3 | 30096.2 | 36270.4 | 37307.8 | 35845.5 | 29483.8 | 22872.1 | 14629.4 |
| 73° | 22222.2 | 22434.7 | 25065.6 | 30571.1 | 37139.0 | 37657.7 | 35358.0 | 28865.1 | 21572.3 | 13123.3 |
| 75° | 20172.4 | 20891.1 | 23822.0 | 29796.2 | 36207.9 | 36114.2 | 32558.4 | 24053.2 | 15335.6 | 6892.9 |
| 77.5° | 14923.1 | 15379.3 | 18772.6 | 24503.1 | 29721.2 | 29121.3 | 24559.4 | 15373.1 | 7280.3 | 2555.9 |
| 80° | 7292.8 | 7649.0 | 9948.7 | 14148.2 | 19435.0 | 19485.0 | 15241.8 | 7999.0 | 3118.4 | 1443.6 |
| 82.5° | 3643.3 | 3855.8 | 4780.6 | 6218.0 | 9561.3 | 10017.5 | 7730.3 | 4549.4 | 1931.0 | 818.6 |
| 85° | 2380.9 | 2530.9 | 2943.4 | 3043.4 | 4055.7 | 4280.7 | 3599.5 | 3549.6 | 1256.1 | 443.7 |
| 87.5° | 1581.0 | 1606.0 | 1806.0 | 1537.3 | 1624.8 | 1562.3 | 1737.3 | 2237.2 | 368.7 | 187.5 |
| 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-07-750-U-SL4

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 9942.5 | 0° | 9942.5 | 9942.5 | 9942.5 | 9942.5 | 9942.5 | 9942.5 | 9942.5 | 9942.5 | 9942.5 | 9942.5 |
| 9942.5 | 2.5° | 9911.2 | 9823.8 | 9730.0 | 9598.8 | 9505.0 | 9361.3 | 9230.1 | 9173.8 | 9161.3 | 9167.6 |
| 9692.5 | 5° | 9655.0 | 9530.0 | 9342.6 | 9073.9 | 8917.6 | 8680.2 | 8480.2 | 8373.9 | 8261.5 | 8280.2 |
| 9386.3 | 7.5° | 9298.8 | 9161.3 | 8873.9 | 8561.4 | 8174.0 | 7836.5 | 7649.0 | 7386.6 | 7236.6 | 7124.1 |
| 9367.6 | 10° | 9186.3 | 8948.9 | 8517.7 | 8086.5 | 7486.6 | 7042.9 | 6611.7 | 6311.7 | 6105.5 | 5905.5 |
| 9236.3 | 12.5° | 9130.1 | 8892.6 | 8292.7 | 7655.3 | 6880.4 | 6205.5 | 5599.3 | 5230.6 | 4936.9 | 4761.9 |
| 9405.1 | 15° | 9080.1 | 8786.4 | 8080.2 | 7180.3 | 6311.7 | 5424.3 | 4743.1 | 4255.7 | 3974.5 | 3805.8 |
| 9436.3 | 17.5° | 9148.8 | 8730.1 | 7767.8 | 6717.9 | 5686.8 | 4736.9 | 3980.7 | 3474.6 | 3187.1 | 3080.9 |
| 9398.8 | 20° | 9080.1 | 8667.7 | 7461.6 | 6255.5 | 5061.9 | 4080.7 | 3355.8 | 2937.1 | 2737.2 | 2649.7 |
| 9573.8 | 22.5° | 9105.1 | 8517.7 | 7142.8 | 5743.0 | 4480.7 | 3530.8 | 2937.1 | 2618.4 | 2462.2 | 2418.4 |
| 9655.0 | 25° | 9223.8 | 8430.2 | 6824.1 | 5180.6 | 3905.8 | 3124.6 | 2668.4 | 2424.7 | 2312.2 | 2268.5 |
| 9798.8 | 27.5° | 9311.3 | 8505.2 | 6536.7 | 4649.4 | 3418.3 | 2762.2 | 2443.4 | 2281.0 | 2206.0 | 2174.7 |
| 10223.7 | 30° | 9530.0 | 8548.9 | 6255.5 | 4174.5 | 3018.4 | 2524.7 | 2287.2 | 2156.0 | 2106.0 | 2087.2 |
| 10804.9 | 32.5° | 9855.0 | 8630.2 | 5930.5 | 3737.0 | 2724.7 | 2299.7 | 2162.2 | 2049.7 | 2037.2 | 2018.5 |
| 11454.8 | 35° | 10386.2 | 8911.4 | 5568.0 | 3362.1 | 2443.4 | 2149.7 | 2031.0 | 1956.0 | 1956.0 | 1956.0 |
| 12492.2 | 37.5° | 11148.6 | 9305.1 | 5243.1 | 3005.9 | 2262.2 | 2018.5 | 1918.5 | 1893.5 | 1881.0 | 1899.8 |
| 13760.8 | 40° | 12129.7 | 9780.0 | 4980.6 | 2724.7 | 2106.0 | 1931.0 | 1843.5 | 1831.0 | 1824.8 | 1818.5 |
| 15116.8 | 42.5° | 13204.6 | 10386.2 | 4755.6 | 2505.9 | 1993.5 | 1837.3 | 1774.8 | 1762.3 | 1737.3 | 1749.8 |
| 16591.6 | 45° | 14273.2 | 11136.1 | 4555.7 | 2331.0 | 1918.5 | 1787.3 | 1699.8 | 1693.5 | 1681.0 | 1674.8 |
| 18203.9 | 47.5° | 15460.5 | 11873.5 | 4493.2 | 2224.7 | 1862.3 | 1712.3 | 1649.8 | 1643.5 | 1606.0 | 1599.8 |
| 19310.1 | 50° | 16385.4 | 12417.2 | 4561.9 | 2174.7 | 1781.0 | 1656.0 | 1612.3 | 1581.0 | 1549.8 | 1518.6 |
| 20128.7 | 52.5° | 17022.8 | 12792.1 | 4611.9 | 2137.2 | 1737.3 | 1581.0 | 1524.8 | 1512.3 | 1481.1 | 1449.8 |
| 20947.3 | 55° | 17597.8 | 13017.1 | 4624.4 | 2143.5 | 1693.5 | 1493.6 | 1456.1 | 1449.8 | 1431.1 | 1381.1 |
| 21641.0 | 57.5° | 17791.5 | 12923.4 | 4374.4 | 2087.2 | 1668.5 | 1437.3 | 1387.3 | 1399.8 | 1374.8 | 1331.1 |
| 21653.5 | 60° | 17772.7 | 12273.4 | 3805.8 | 2012.2 | 1612.3 | 1374.8 | 1312.3 | 1349.8 | 1349.8 | 1299.8 |
| 21016.1 | 62.5° | 16691.6 | 10773.6 | 3112.1 | 1868.5 | 1549.8 | 1312.3 | 1243.6 | 1299.8 | 1318.6 | 1287.3 |
| 19510.0 | 65° | 14448.2 | 8773.9 | 2599.7 | 1724.8 | 1456.1 | 1243.6 | 1174.9 | 1237.3 | 1268.6 | 1256.1 |
| 16566.7 | 67.5° | 11954.7 | 6711.7 | 2162.2 | 1537.3 | 1337.3 | 1149.9 | 1093.6 | 1137.4 | 1156.1 | 1162.4 |
| 12498.4 | 70° | 8448.9 | 4468.2 | 1806.0 | 1331.1 | 1174.9 | 1049.9 | 987.4 | 993.6 | 987.4 | 1006.1 |
| 7292.8 | 72.5° | 4593.2 | 2574.7 | 1468.6 | 1131.1 | 1012.4 | 912.4 | 868.6 | 837.4 | 837.4 | 831.1 |
| 6168.0 | 73° | 3930.8 | 2312.2 | 1399.8 | 1099.9 | 968.6 | 887.4 | 837.4 | 812.4 | 812.4 | 806.1 |
| 2987.1 | 75° | 2206.0 | 1693.5 | 1199.8 | 943.6 | 837.4 | 774.9 | 737.4 | 699.9 | 693.7 | 693.7 |
| 1612.3 | 77.5° | 1449.8 | 1318.6 | 956.1 | 756.2 | 674.9 | 618.7 | 606.2 | 568.7 | 568.7 | 568.7 |
| 1099.9 | 80° | 1087.4 | 1037.4 | 737.4 | 574.9 | 518.7 | 474.9 | 462.4 | 437.4 | 431.2 | 406.2 |
| 624.9 | 82.5° | 724.9 | 818.6 | 537.4 | 406.2 | 350.0 | 325.0 | 325.0 | 318.7 | 300.0 | 268.7 |
| 506.2 | 85° | 574.9 | 668.7 | 387.5 | 250.0 | 206.2 | 175.0 | 181.2 | 175.0 | 168.7 | 137.5 |
| 137.5 | 87.5° | 106.2 | 268.7 | 112.5 | 68.7 | 50.0 | 31.2 | 31.2 | 18.7 | 12.5 | 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 |

(END O



| <u>180°</u> |
|-------------|
| 9942.5 |
| 9105.1 |
| 8230.2 |
| 7186.6 |
| 5993.0 |
| 4830.6 |
| 3824.5 |
| 3055.9 |
| 2630.9 |
| 2430.9 |
| 2281.0 |
| 2168.5 |
| 2081.0 |
| 2024.7 |
| 1974.7 |
| 1912.3 |
| 1831.0 |
| 1768.5 |
| 1706.0 |
| 1624.8 |
| 1518.6 |
| 1437.3 |
| 1368.6 |
| 1324.8 |
| 1293.6 |
| 1281.1 |
| 1249.8 |
| 1168.6 |
| 1006.1 |
| 831.1 |
| 799.9 |
| 693.7 |
| 562.4 |
| 412.4 |
| 268.7 |
| 131.2 |
| 0.0 |
| 0.0 |

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