

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: P574986

Luminaire Tested: **EPH-VN-08-750-U-SL2**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P574986
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-750-U-SL2
Description: EPHESUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

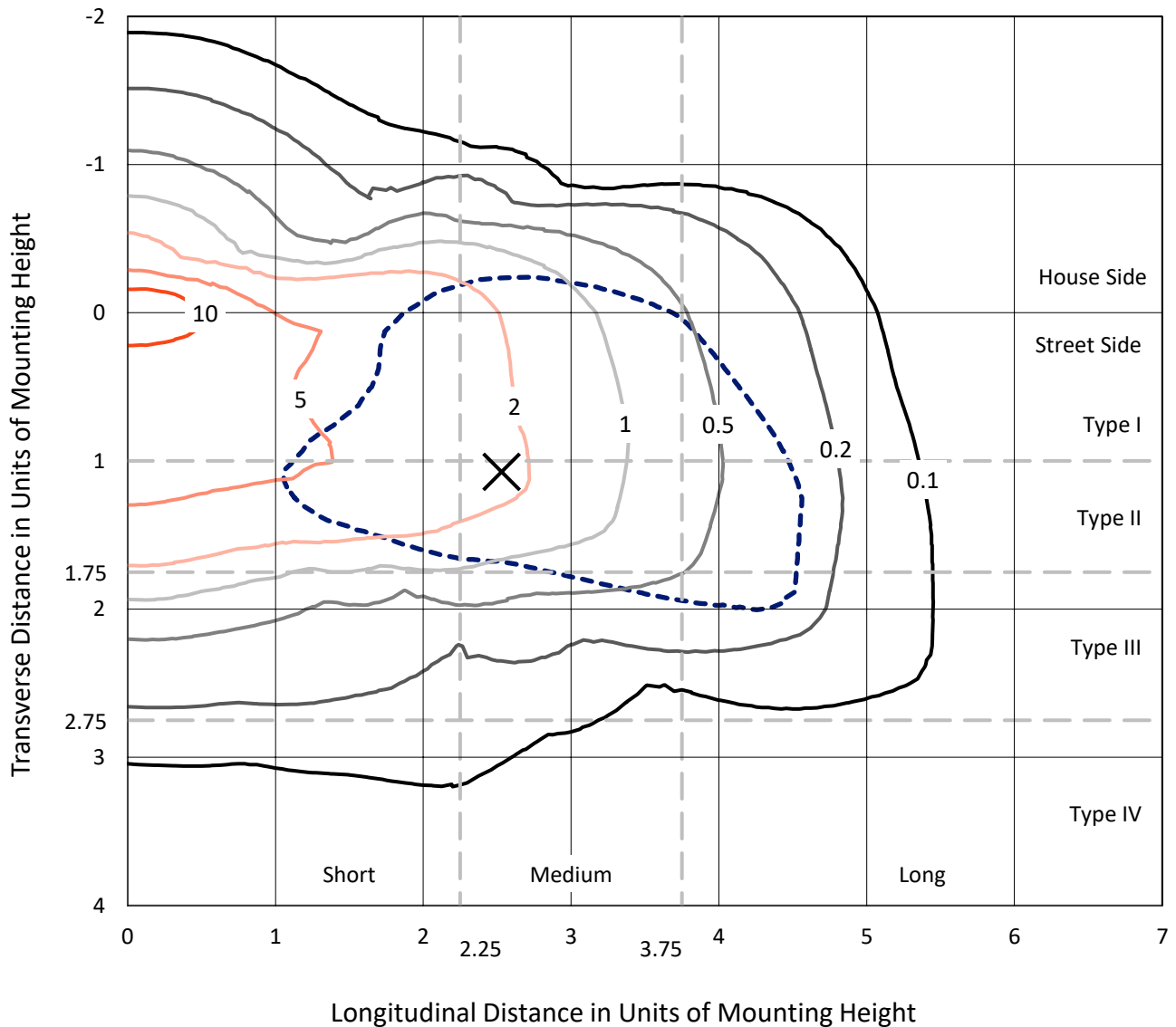
Lumens per Lamp: N/A
Luminaire Lumens: 56856.5 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

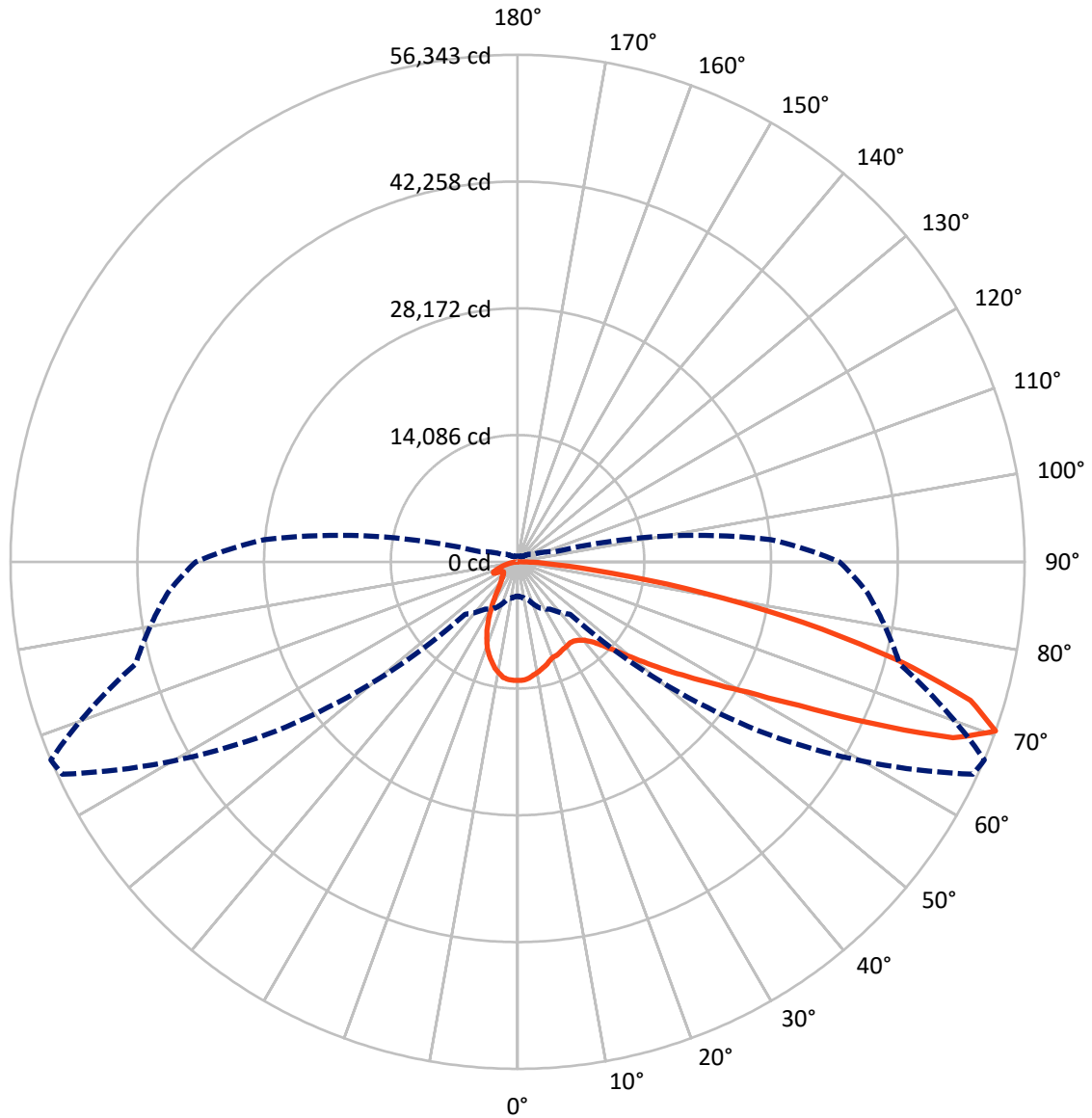
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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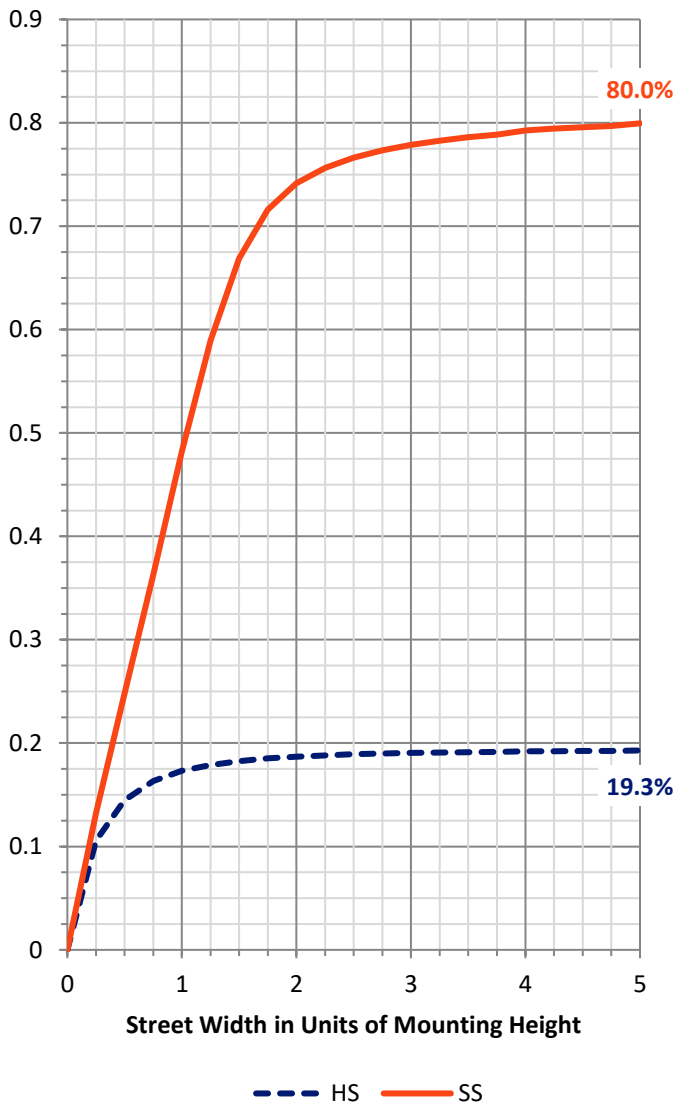
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11073.4 | 0.0 | 11073.4 |
| | % Fixture | 19.5 | 0.0 | 19.5 |
| Street Side | Lumens | 45783.1 | 0.0 | 45783.1 |
| | % Fixture | 80.5 | 0.0 | 80.5 |
| Total | Lumens | 56856.5 | 0.0 | 56856.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1148.4 | 2.0 |
| 10°-20° | 2750.4 | 4.8 |
| 20°-30° | 3714.3 | 6.5 |
| 30°-40° | 4970.0 | 8.7 |
| 40°-50° | 7308.3 | 12.9 |
| 50°-60° | 11391.8 | 20.0 |
| 60°-70° | 14032.8 | 24.7 |
| 70°-80° | 9915.4 | 17.4 |
| 80°-90° | 1625.2 | 2.9 |
| 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° | 56856.5 | 100.0 |
| 0°-180° | 56856.5 | 100.0 |

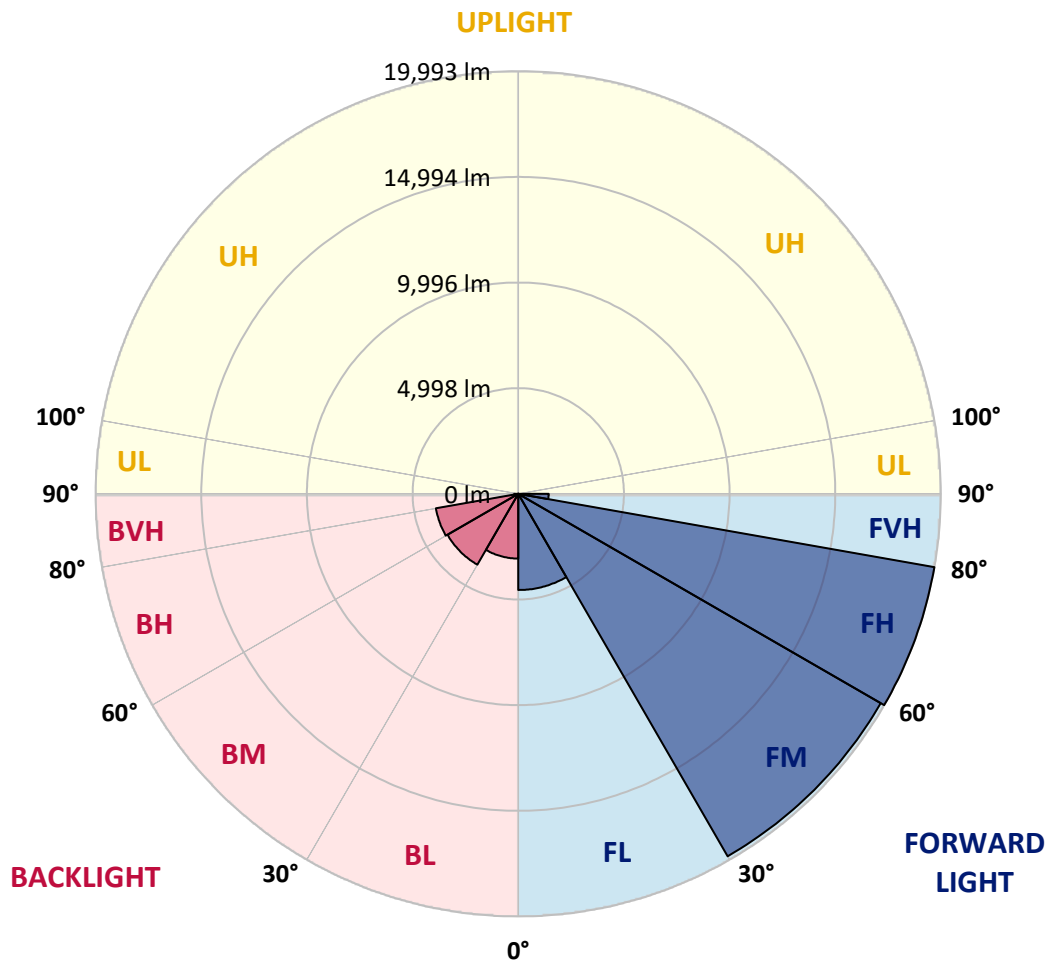


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4550.9 | 8.0 | | | |
| FM (30°-60°) | 19801.9 | 34.8 | | | |
| FH (60°-80°) | 19992.6 | 35.2 | | | G5 |
| FVH (80°-90°) | 1437.7 | 2.5 | | | G5 |
| BL (0°-30°) | 3062.2 | 5.4 | B4/5000 | | |
| BM (30°-60°) | 3868.2 | 6.8 | B3/5000 | | |
| BH (60°-80°) | 3955.6 | 7.0 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 187.5 | 0.3 | | | 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 III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 13162.1 | 13162.1 | 13162.1 | 13162.1 | 13162.1 | 13162.1 | 13162.1 | 13162.1 | 13162.1 | 13162.1 |
| 2.5° | 12255.7 | 12394.2 | 12444.5 | 12520.0 | 12715.2 | 12860.0 | 12948.1 | 13048.8 | 13168.4 | 13269.1 |
| 5° | 11399.6 | 11475.1 | 11594.7 | 11676.6 | 11922.1 | 12312.3 | 12576.7 | 13004.7 | 12992.1 | 13149.5 |
| 7.5° | 10568.7 | 10644.2 | 10700.9 | 10864.6 | 11217.1 | 11569.6 | 12054.2 | 12746.7 | 12696.3 | 13061.4 |
| 10° | 10052.5 | 9995.9 | 10014.8 | 10291.7 | 10568.7 | 10965.3 | 11575.8 | 12280.8 | 12463.4 | 13029.9 |
| 12.5° | 9567.9 | 9504.9 | 9656.0 | 9832.2 | 10172.1 | 10530.9 | 11261.1 | 11896.9 | 12173.8 | 12916.6 |
| 15° | 9265.7 | 9221.7 | 9410.5 | 9486.0 | 9888.9 | 10316.9 | 10833.1 | 11607.3 | 11909.5 | 12778.1 |
| 17.5° | 9095.8 | 9133.5 | 9202.8 | 9366.4 | 9624.5 | 9989.6 | 10556.1 | 11412.2 | 11544.4 | 12608.2 |
| 20° | 9127.2 | 9171.3 | 9177.6 | 9246.8 | 9423.1 | 9706.3 | 10285.4 | 11204.5 | 11292.6 | 12576.7 |
| 22.5° | 9379.0 | 9316.1 | 9341.3 | 9297.2 | 9347.5 | 9567.9 | 10077.7 | 10927.5 | 11267.4 | 12312.3 |
| 25° | 9756.7 | 9668.6 | 9656.0 | 9504.9 | 9410.5 | 9473.4 | 10040.0 | 10858.3 | 11078.6 | 12230.5 |
| 27.5° | 10423.9 | 10291.7 | 10291.7 | 10065.1 | 9681.2 | 9580.4 | 9932.9 | 10745.0 | 10940.1 | 12155.0 |
| 30° | 11066.0 | 11066.0 | 11072.3 | 10751.3 | 10323.2 | 9825.9 | 9977.0 | 10700.9 | 10826.8 | 11928.3 |
| 32.5° | 11846.5 | 11827.6 | 11796.2 | 11638.8 | 10977.9 | 10235.1 | 10191.0 | 10644.2 | 10707.2 | 11852.8 |
| 35° | 12608.2 | 12557.8 | 12803.3 | 12664.8 | 11991.3 | 11034.5 | 10411.3 | 10669.4 | 10807.9 | 11739.5 |
| 37.5° | 13181.0 | 13212.5 | 13722.3 | 13810.4 | 13231.3 | 11940.9 | 11034.5 | 10921.2 | 11053.4 | 11903.2 |
| 40° | 13923.8 | 14049.6 | 14528.0 | 14823.9 | 14471.4 | 13136.9 | 12022.8 | 11342.9 | 11437.4 | 12268.3 |
| 42.5° | 14899.4 | 15006.4 | 15617.0 | 16001.0 | 15900.3 | 14660.2 | 12998.4 | 12224.2 | 12148.7 | 12878.8 |
| 45° | 16189.8 | 16208.7 | 16825.6 | 17354.3 | 17562.1 | 16252.8 | 14546.9 | 13338.3 | 13275.4 | 13930.0 |
| 47.5° | 17725.7 | 17706.8 | 18090.8 | 18657.3 | 19217.5 | 18153.8 | 16328.3 | 15031.6 | 14805.0 | 15434.5 |
| 50° | 19211.3 | 19129.4 | 19217.5 | 19941.4 | 21017.8 | 20533.1 | 18493.7 | 17102.5 | 16875.9 | 17222.1 |
| 52.5° | 20029.6 | 20130.3 | 19891.1 | 20847.9 | 22931.4 | 23346.8 | 21364.0 | 19576.3 | 19381.2 | 19551.2 |
| 55° | 19456.7 | 19664.5 | 19507.1 | 20413.5 | 23768.6 | 26777.4 | 25077.9 | 22440.4 | 22188.6 | 22125.7 |
| 57.5° | 17020.7 | 17398.4 | 17429.9 | 18865.0 | 23479.0 | 29433.8 | 30302.4 | 25820.6 | 25442.9 | 24800.9 |
| 60° | 13067.7 | 13445.4 | 13734.9 | 15434.5 | 20998.9 | 31020.0 | 36357.9 | 30629.7 | 29383.4 | 27721.6 |
| 62.5° | 9158.7 | 9416.8 | 9706.3 | 10751.3 | 16189.8 | 30088.4 | 41595.0 | 37402.8 | 35105.2 | 30799.7 |
| 65° | 6672.3 | 6873.8 | 7169.6 | 7786.5 | 9945.5 | 24895.3 | 44024.7 | 45447.3 | 43269.4 | 34715.0 |
| 67.5° | 5023.1 | 5149.0 | 5539.3 | 6527.5 | 6892.6 | 15377.8 | 41506.9 | 53945.1 | 52182.6 | 39064.6 |
| 70° | 3802.0 | 3909.0 | 4274.1 | 5627.4 | 6439.4 | 8246.0 | 32744.7 | 55839.8 | 56343.4 | 43942.9 |
| 72.5° | 2618.6 | 2738.2 | 3147.3 | 4689.5 | 6131.0 | 6540.1 | 20552.0 | 50728.5 | 52635.8 | 45950.9 |
| 75° | 1605.1 | 1687.0 | 1926.2 | 3556.5 | 6086.9 | 6395.4 | 11311.5 | 41569.8 | 43590.4 | 42457.4 |
| 77.5° | 1133.0 | 1126.7 | 1170.8 | 2083.5 | 5274.9 | 6433.1 | 6974.5 | 30459.8 | 32423.7 | 31290.7 |
| 80° | 824.6 | 830.9 | 875.0 | 1246.3 | 3581.7 | 6540.1 | 5495.2 | 20400.9 | 20986.3 | 16315.7 |
| 82.5° | 497.3 | 522.5 | 629.5 | 843.5 | 2152.8 | 5904.4 | 5079.8 | 11336.7 | 10606.5 | 5237.1 |
| 85° | 264.4 | 264.4 | 371.4 | 535.0 | 1145.6 | 4406.3 | 4890.9 | 5394.5 | 4519.6 | 1624.0 |
| 87.5° | 62.9 | 62.9 | 107.0 | 214.0 | 459.5 | 2108.7 | 3336.2 | 2146.5 | 1718.4 | 547.6 |
| 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-08-750-U-SL2

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 13162.1 | 0° | 13162.1 | 13162.1 | 13162.1 | 13162.1 | 13162.1 | 13162.1 | 13162.1 | 13162.1 | 13162.1 | 13162.1 |
| 13332.1 | 2.5° | 13306.9 | 13231.3 | 13325.8 | 13136.9 | 12985.8 | 12992.1 | 12759.2 | 12746.7 | 12715.2 | 12551.5 |
| 13388.7 | 5° | 13457.9 | 13395.0 | 13288.0 | 13080.3 | 12746.7 | 12413.0 | 12211.6 | 11953.5 | 11846.5 | 11789.9 |
| 13432.8 | 7.5° | 13602.7 | 13489.4 | 13181.0 | 12891.4 | 12375.3 | 11745.8 | 11380.7 | 11034.5 | 10593.9 | 10543.5 |
| 13558.7 | 10° | 13640.5 | 13401.3 | 13004.7 | 12387.9 | 11701.7 | 11003.0 | 10172.1 | 9530.1 | 9190.2 | 8925.8 |
| 13615.3 | 12.5° | 13583.8 | 13483.1 | 12721.5 | 11928.3 | 10889.7 | 9794.5 | 8825.1 | 7918.7 | 7289.2 | 6961.9 |
| 13527.2 | 15° | 13577.5 | 13401.3 | 12406.7 | 11229.6 | 9901.5 | 8472.6 | 7094.1 | 6005.1 | 5344.2 | 5073.5 |
| 13508.3 | 17.5° | 13583.8 | 13162.1 | 12035.4 | 10524.6 | 8737.0 | 6804.5 | 5287.5 | 4393.7 | 4028.6 | 3990.8 |
| 13558.7 | 20° | 13457.9 | 12985.8 | 11645.1 | 9693.8 | 7276.6 | 5111.3 | 3839.7 | 3474.6 | 3474.6 | 3525.0 |
| 13451.7 | 22.5° | 13344.6 | 12721.5 | 11028.2 | 8667.7 | 5791.1 | 3701.3 | 3122.1 | 3015.1 | 3134.7 | 3222.9 |
| 13445.4 | 25° | 13187.3 | 12501.2 | 10398.8 | 7603.9 | 4406.3 | 2983.7 | 2713.0 | 2738.2 | 2851.5 | 3008.8 |
| 13300.6 | 27.5° | 12960.7 | 12117.2 | 9649.7 | 6370.2 | 3279.5 | 2574.5 | 2505.3 | 2517.9 | 2637.5 | 2706.7 |
| 13105.4 | 30° | 12702.6 | 11726.9 | 8957.3 | 5142.7 | 2599.7 | 2360.5 | 2354.2 | 2385.7 | 2404.6 | 2442.3 |
| 13048.8 | 32.5° | 12375.3 | 11210.8 | 8220.8 | 3997.1 | 2341.6 | 2240.9 | 2215.7 | 2196.8 | 2215.7 | 2209.4 |
| 12872.5 | 35° | 12142.4 | 10933.8 | 7471.7 | 3046.6 | 2196.8 | 2133.9 | 2115.0 | 2083.5 | 2058.3 | 2020.6 |
| 12872.5 | 37.5° | 12079.4 | 10656.8 | 6684.9 | 2486.4 | 2083.5 | 2052.1 | 1989.1 | 1932.5 | 1901.0 | 1882.1 |
| 13149.5 | 40° | 12041.7 | 10474.3 | 5917.0 | 2184.2 | 1989.1 | 1957.6 | 1882.1 | 1806.6 | 1775.1 | 1756.2 |
| 13565.0 | 42.5° | 12173.8 | 10373.6 | 5136.4 | 2033.2 | 1907.3 | 1850.6 | 1768.8 | 1680.7 | 1674.4 | 1661.8 |
| 14326.6 | 45° | 12639.6 | 10499.5 | 4412.5 | 1926.2 | 1825.4 | 1731.0 | 1624.0 | 1580.0 | 1573.7 | 1561.1 |
| 15591.8 | 47.5° | 13697.1 | 10814.2 | 3795.7 | 1856.9 | 1737.3 | 1655.5 | 1542.2 | 1479.2 | 1472.9 | 1466.7 |
| 17492.8 | 50° | 15157.5 | 11783.6 | 3279.5 | 1775.1 | 1680.7 | 1567.4 | 1460.4 | 1391.1 | 1378.5 | 1353.3 |
| 20023.3 | 52.5° | 17448.8 | 13413.9 | 2971.1 | 1731.0 | 1580.0 | 1485.5 | 1372.2 | 1296.7 | 1265.2 | 1240.0 |
| 22899.9 | 55° | 20029.6 | 15434.5 | 2914.4 | 1655.5 | 1472.9 | 1384.8 | 1284.1 | 1208.6 | 1177.1 | 1145.6 |
| 25600.3 | 57.5° | 22969.2 | 18109.7 | 3317.3 | 1605.1 | 1397.4 | 1284.1 | 1170.8 | 1101.6 | 1076.4 | 1044.9 |
| 28200.0 | 60° | 25707.3 | 20778.6 | 4569.9 | 1529.6 | 1328.2 | 1189.7 | 1076.4 | 1007.1 | 975.7 | 944.2 |
| 31397.7 | 62.5° | 28873.5 | 24083.3 | 6691.2 | 1529.6 | 1265.2 | 1089.0 | 975.7 | 925.3 | 906.4 | 875.0 |
| 34639.4 | 65° | 32618.8 | 27501.3 | 8239.7 | 1624.0 | 1246.3 | 1000.8 | 881.3 | 830.9 | 812.0 | 793.1 |
| 37245.4 | 67.5° | 35470.3 | 29465.2 | 7087.8 | 1875.8 | 1328.2 | 925.3 | 786.8 | 755.4 | 742.8 | 723.9 |
| 38995.3 | 70° | 35772.5 | 28269.2 | 4274.1 | 2026.9 | 1410.0 | 849.8 | 705.0 | 673.5 | 673.5 | 654.6 |
| 37119.5 | 72.5° | 33059.5 | 25084.2 | 2876.7 | 1806.6 | 1277.8 | 761.7 | 623.2 | 598.0 | 585.4 | 572.8 |
| 32474.1 | 75° | 27665.0 | 21275.9 | 2272.4 | 1441.5 | 982.0 | 629.5 | 541.3 | 516.2 | 497.3 | 491.0 |
| 22037.5 | 77.5° | 18581.8 | 13829.3 | 1680.7 | 1126.7 | 723.9 | 509.9 | 453.2 | 428.0 | 409.2 | 402.9 |
| 8692.9 | 80° | 7138.1 | 5268.6 | 1082.7 | 818.3 | 509.9 | 402.9 | 358.8 | 333.6 | 321.0 | 302.1 |
| 2392.0 | 82.5° | 2102.4 | 1705.8 | 604.3 | 503.6 | 327.3 | 277.0 | 258.1 | 239.2 | 220.3 | 201.4 |
| 887.5 | 85° | 868.7 | 780.5 | 371.4 | 264.4 | 201.4 | 163.7 | 151.1 | 132.2 | 113.3 | 100.7 |
| 365.1 | 87.5° | 402.9 | 333.6 | 170.0 | 100.7 | 69.2 | 37.8 | 18.9 | 6.3 | 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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| 180° |
|---------|
| 13162.1 |
| 12608.2 |
| 11815.0 |
| 10455.4 |
| 8825.1 |
| 6873.8 |
| 5073.5 |
| 4022.3 |
| 3543.9 |
| 3260.6 |
| 2996.3 |
| 2694.1 |
| 2436.0 |
| 2190.5 |
| 2014.3 |
| 1869.5 |
| 1762.5 |
| 1680.7 |
| 1573.7 |
| 1466.7 |
| 1353.3 |
| 1240.0 |
| 1133.0 |
| 1032.3 |
| 944.2 |
| 868.7 |
| 786.8 |
| 711.3 |
| 642.1 |
| 566.5 |
| 478.4 |
| 384.0 |
| 289.6 |
| 195.1 |
| 88.1 |
| 0.0 |
| 0.0 |

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