

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: P628124

Luminaire Tested: **EPH-VN-08-D-730-U-T1**

Issue Date: 01/09/2023

Test Information

Test Method: LM-79-08
Report Number: P628124
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/09/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHESUS
Catalog Number: EPH-VN-08-D-730-U-T1
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/
Type I distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51525.4 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

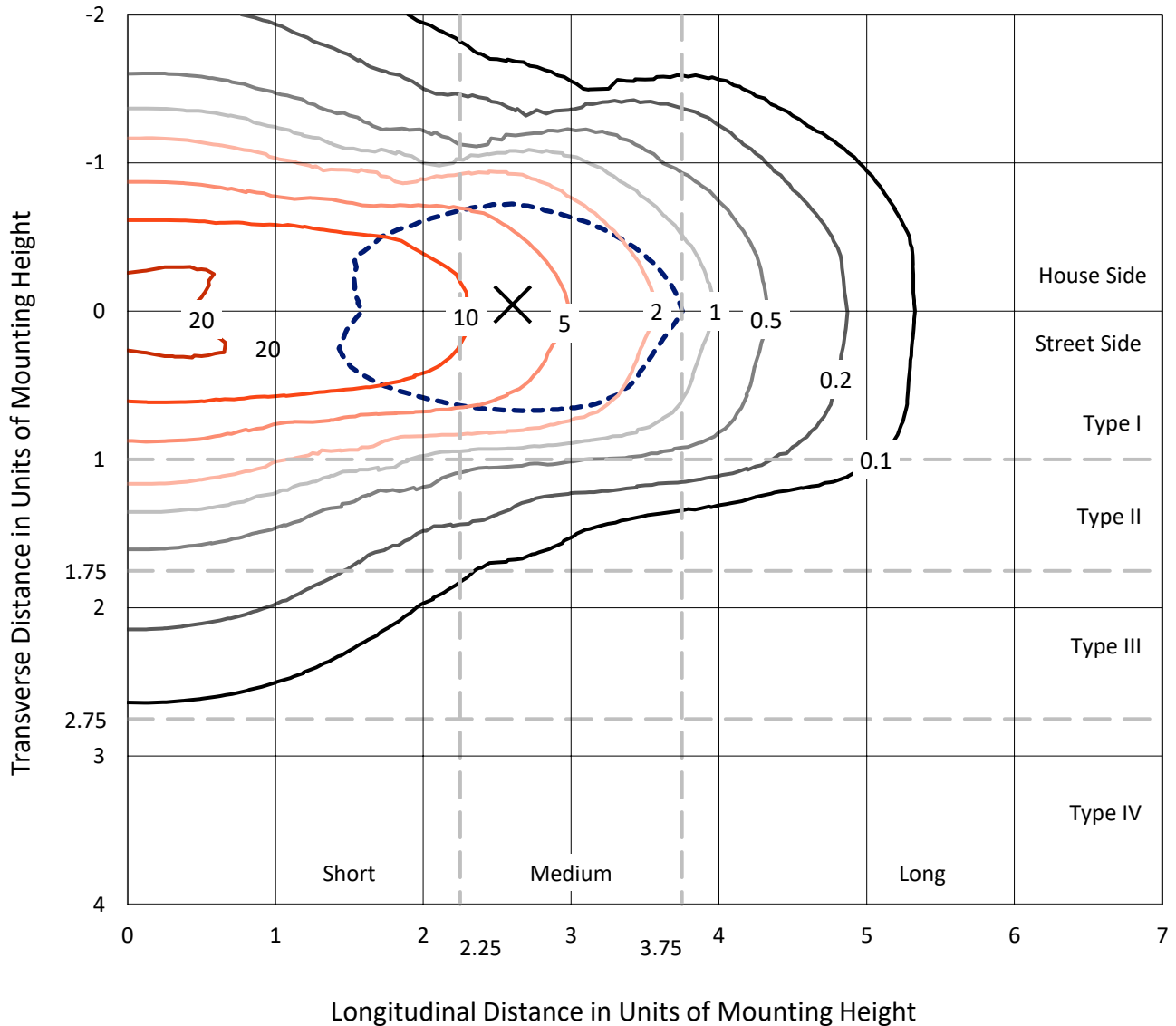
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

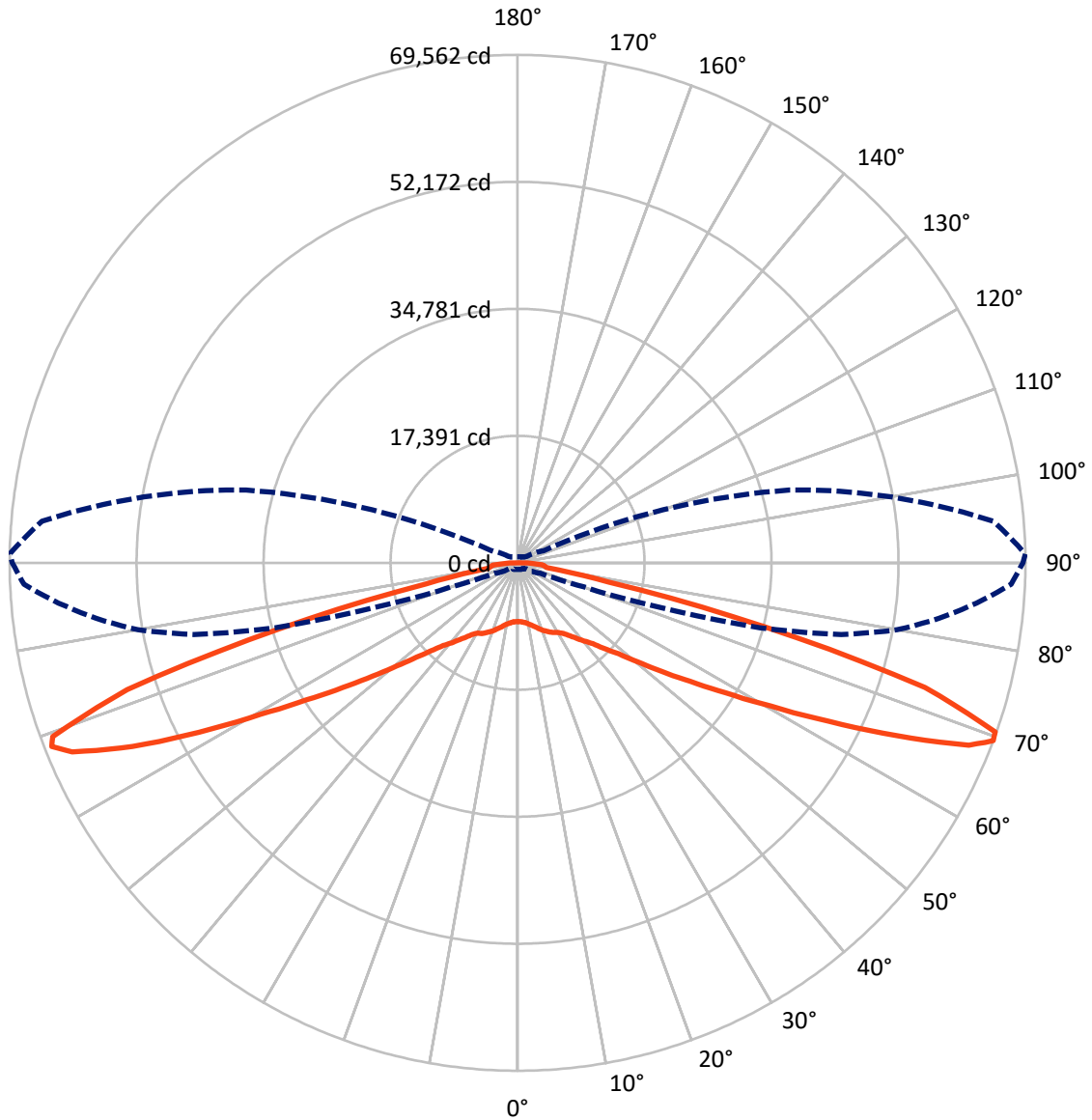
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 22 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 91-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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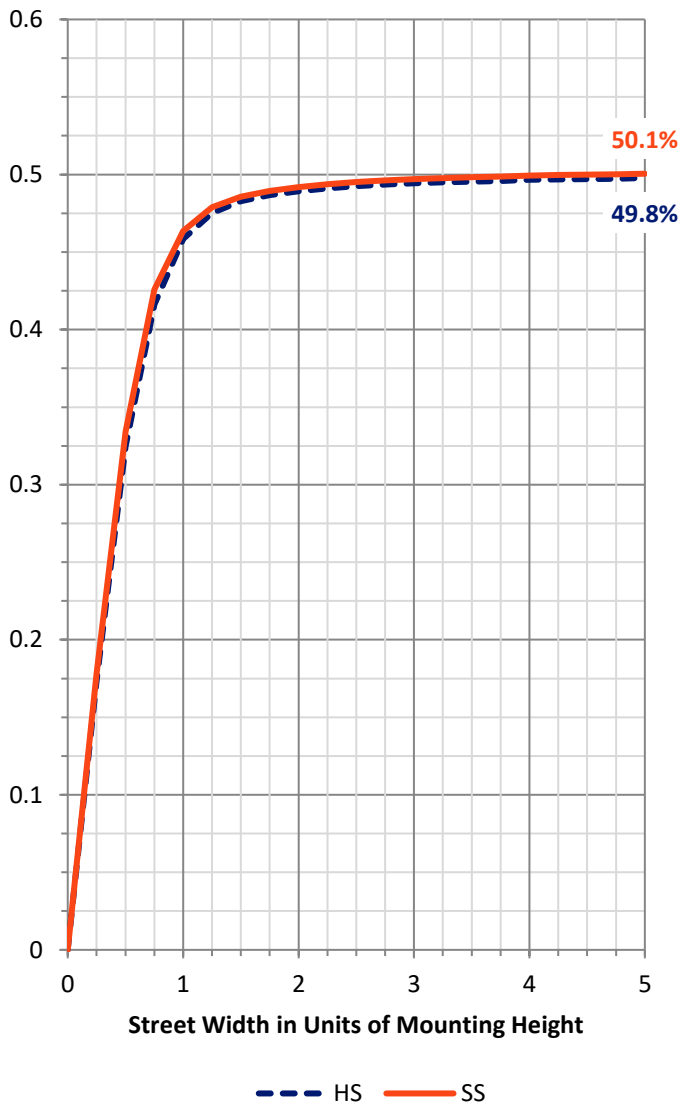
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 25832.0 | 0.0 | 25832.0 |
| | % Fixture | 50.1 | 0.0 | 50.1 |
| Street Side | Lumens | 25693.3 | 0.0 | 25693.3 |
| | % Fixture | 49.9 | 0.0 | 49.9 |
| Total | Lumens | 51525.4 | 0.0 | 51525.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 811.7 | 1.6 |
| 10°-20° | 2657.8 | 5.2 |
| 20°-30° | 4557.7 | 8.8 |
| 30°-40° | 6296.2 | 12.2 |
| 40°-50° | 8095.2 | 15.7 |
| 50°-60° | 10072.0 | 19.5 |
| 60°-70° | 12353.1 | 24.0 |
| 70°-80° | 6093.7 | 11.8 |
| 80°-90° | 587.8 | 1.1 |
| 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° | 51525.4 | 100.0 |
| 0°-180° | 51525.4 | 100.0 |

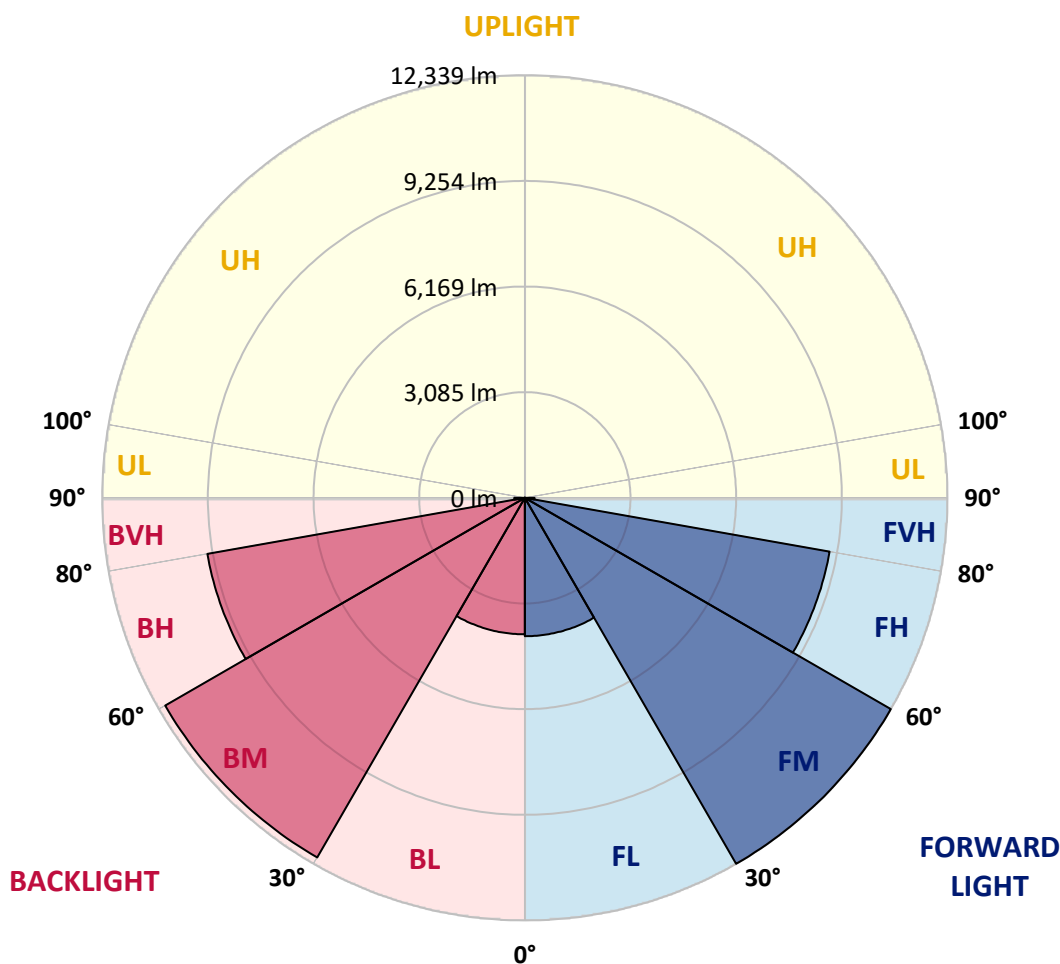


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 4040.5 | 7.8 | | | |
| FM (30°-60°) | 12338.6 | 23.9 | | | |
| FH (60°-80°) | 9035.4 | 17.5 | | | G4/12000 |
| FVH (80°-90°) | 278.8 | 0.5 | | | G3/500 |
| BL (0°-30°) | 3986.7 | 7.7 | B4/5000 | | |
| BM (30°-60°) | 12124.8 | 23.5 | B5 | | |
| BH (60°-80°) | 9411.4 | 18.3 | B5 | | G5 |
| BVH (80°-90°) | 309.1 | 0.6 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5
 Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67.5° | 70° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 8082.9 | 8082.9 | 8082.9 | 8082.9 | 8082.9 | 8082.9 | 8082.9 | 8082.9 | 8082.9 | 8082.9 |
| 2.5° | 8154.3 | 8225.8 | 8165.3 | 8192.8 | 8225.8 | 8209.3 | 8198.3 | 8121.3 | 8148.8 | 8115.8 |
| 5° | 8440.3 | 8489.7 | 8451.3 | 8445.8 | 8412.8 | 8407.3 | 8374.3 | 8253.3 | 8308.3 | 8231.3 |
| 7.5° | 8687.7 | 8737.2 | 8687.7 | 8704.2 | 8715.2 | 8682.2 | 8654.7 | 8522.7 | 8533.7 | 8484.2 |
| 10° | 8869.1 | 8946.1 | 8891.1 | 9001.1 | 9001.1 | 9045.1 | 9006.6 | 8814.2 | 8819.7 | 8759.2 |
| 12.5° | 8990.1 | 9083.6 | 9061.6 | 9243.0 | 9336.5 | 9358.5 | 9402.5 | 9237.5 | 9226.6 | 9111.1 |
| 15° | 8902.1 | 8918.6 | 9034.1 | 9314.5 | 9638.9 | 9792.9 | 9869.9 | 9677.4 | 9688.4 | 9556.5 |
| 17.5° | 8621.7 | 8676.7 | 8786.7 | 9276.0 | 9688.4 | 10144.8 | 10298.8 | 10188.8 | 10166.8 | 10018.3 |
| 20° | 8313.8 | 8324.8 | 8506.2 | 9067.1 | 9704.9 | 10359.3 | 10815.6 | 10727.7 | 10722.2 | 10628.7 |
| 22.5° | 7928.9 | 7934.4 | 8187.3 | 8808.7 | 9655.4 | 10458.2 | 11277.5 | 11393.0 | 11316.0 | 11228.0 |
| 25° | 7450.5 | 7511.0 | 7807.9 | 8506.2 | 9485.0 | 10562.7 | 11546.9 | 11926.3 | 11898.8 | 11816.4 |
| 27.5° | 6999.6 | 7043.6 | 7368.0 | 8077.4 | 9122.1 | 10408.7 | 11937.3 | 12602.7 | 12531.2 | 12399.2 |
| 30° | 6592.8 | 6664.2 | 6999.6 | 7637.5 | 8671.2 | 10216.3 | 12195.8 | 13158.0 | 13240.5 | 13092.0 |
| 32.5° | 6152.9 | 6240.8 | 6592.8 | 7252.6 | 8253.3 | 10034.8 | 12415.7 | 13812.3 | 14015.8 | 13845.3 |
| 35° | 5713.0 | 5779.0 | 6130.9 | 6840.2 | 7950.9 | 9633.4 | 12459.7 | 14659.1 | 14912.0 | 14818.6 |
| 37.5° | 5328.1 | 5388.6 | 5735.0 | 6411.3 | 7544.0 | 9336.5 | 12360.7 | 15362.9 | 15819.3 | 16072.2 |
| 40° | 4899.2 | 4976.2 | 5317.1 | 5998.9 | 7005.1 | 8896.6 | 12239.8 | 16149.2 | 16803.5 | 17139.0 |
| 42.5° | 4420.8 | 4525.3 | 4855.2 | 5559.0 | 6587.3 | 8352.3 | 11876.8 | 16677.1 | 17694.3 | 18288.1 |
| 45° | 3915.0 | 3991.9 | 4349.3 | 4998.2 | 6092.4 | 7720.0 | 11365.5 | 17320.4 | 18651.1 | 19750.8 |
| 47.5° | 3304.6 | 3354.1 | 3717.0 | 4398.8 | 5399.6 | 7065.6 | 10716.7 | 17815.3 | 19723.3 | 21103.4 |
| 50° | 2639.3 | 2688.8 | 2980.2 | 3667.5 | 4640.8 | 6251.8 | 9721.4 | 18024.2 | 20476.6 | 22412.1 |
| 52.5° | 2062.0 | 2100.4 | 2331.4 | 2848.2 | 3772.0 | 5322.6 | 8555.7 | 17974.7 | 20954.9 | 23770.2 |
| 55° | 1605.6 | 1638.6 | 1803.5 | 2193.9 | 2892.2 | 4222.9 | 7335.1 | 17067.5 | 21103.4 | 24721.4 |
| 57.5° | 1380.1 | 1396.6 | 1473.6 | 1699.0 | 2215.9 | 3200.2 | 5784.5 | 15472.9 | 20372.1 | 25364.8 |
| 60° | 1215.2 | 1220.7 | 1281.2 | 1435.1 | 1715.5 | 2380.9 | 4228.4 | 12927.1 | 18552.1 | 24957.9 |
| 62.5° | 1132.7 | 1138.2 | 1171.2 | 1275.7 | 1418.6 | 1798.0 | 2996.7 | 9930.4 | 15324.4 | 23280.8 |
| 65° | 1061.2 | 1066.7 | 1094.2 | 1160.2 | 1220.7 | 1440.6 | 2204.9 | 6548.8 | 11041.1 | 18970.0 |
| 67.5° | 967.7 | 978.7 | 1006.2 | 1061.2 | 1110.7 | 1198.7 | 1677.1 | 4222.9 | 6950.2 | 13103.0 |
| 69° | 907.3 | 918.3 | 945.7 | 989.7 | 1033.7 | 1116.2 | 1451.6 | 3370.6 | 5245.6 | 9633.4 |
| 70° | 863.3 | 874.3 | 907.3 | 951.2 | 989.7 | 1066.7 | 1336.1 | 2991.2 | 4481.3 | 7840.9 |
| 72.5° | 753.3 | 764.3 | 786.3 | 830.3 | 874.3 | 929.3 | 1077.7 | 2138.9 | 3046.2 | 4816.7 |
| 75° | 643.3 | 648.8 | 665.3 | 709.3 | 753.3 | 797.3 | 907.3 | 1512.1 | 2023.5 | 2958.2 |
| 77.5° | 500.4 | 505.9 | 527.9 | 577.3 | 604.8 | 665.3 | 769.8 | 1050.2 | 1325.1 | 1721.0 |
| 80° | 362.9 | 379.4 | 406.9 | 450.9 | 467.4 | 500.4 | 593.8 | 753.3 | 874.3 | 1055.7 |
| 82.5° | 247.4 | 258.4 | 285.9 | 324.4 | 335.4 | 335.4 | 423.4 | 555.4 | 621.3 | 687.3 |
| 85° | 143.0 | 148.5 | 143.0 | 165.0 | 192.4 | 197.9 | 274.9 | 335.4 | 384.9 | 445.4 |
| 87.5° | 44.0 | 44.0 | 44.0 | 55.0 | 66.0 | 71.5 | 121.0 | 154.0 | 192.4 | 230.9 |
| 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-D-730-U-T1

CANDELA DISTRIBUTION (continued):

| 72.5° | | 75° | 77.5° | 80° | 82.5° | 85° | 87.5° | 90° | 91° | 95° |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 8082.9 | 0° | 8082.9 | 8082.9 | 8082.9 | 8082.9 | 8082.9 | 8082.9 | 8082.9 | 8082.9 | 8082.9 |
| 8121.3 | 2.5° | 8099.4 | 8165.3 | 8088.4 | 8082.9 | 8077.4 | 8038.9 | 8066.4 | 8060.9 | 8121.3 |
| 8264.3 | 5° | 8214.8 | 8214.8 | 8170.8 | 8203.8 | 8192.8 | 8066.4 | 8181.8 | 8181.8 | 8242.3 |
| 8445.8 | 7.5° | 8379.8 | 8390.8 | 8368.8 | 8352.3 | 8330.3 | 8236.8 | 8308.3 | 8297.3 | 8346.8 |
| 8781.2 | 10° | 8698.7 | 8687.7 | 8588.7 | 8588.7 | 8566.7 | 8467.8 | 8511.7 | 8544.7 | 8638.2 |
| 9105.6 | 12.5° | 9045.1 | 8973.6 | 8984.6 | 8946.1 | 8874.6 | 8704.2 | 8770.2 | 8775.7 | 8869.1 |
| 9562.0 | 15° | 9424.5 | 9347.5 | 9314.5 | 9281.5 | 9210.1 | 9050.6 | 9144.1 | 9089.1 | 9155.1 |
| 9979.9 | 17.5° | 9935.9 | 9836.9 | 9721.4 | 9633.4 | 9529.0 | 9402.5 | 9446.5 | 9490.5 | 9534.5 |
| 10524.2 | 20° | 10502.2 | 10342.8 | 10210.8 | 10067.8 | 9979.9 | 9820.4 | 9875.4 | 9880.9 | 9930.4 |
| 11096.1 | 22.5° | 10953.1 | 10815.6 | 10667.2 | 10562.7 | 10381.2 | 10221.8 | 10161.3 | 10172.3 | 10260.3 |
| 11684.4 | 25° | 11541.4 | 11294.0 | 11145.5 | 10975.1 | 10815.6 | 10540.7 | 10513.2 | 10524.2 | 10667.2 |
| 12344.2 | 27.5° | 12052.8 | 11849.4 | 11601.9 | 11343.5 | 11112.6 | 10892.6 | 10859.6 | 10821.1 | 10991.6 |
| 12949.1 | 30° | 12718.1 | 12415.7 | 12019.8 | 11772.4 | 11387.5 | 11079.6 | 11035.6 | 11074.1 | 11173.0 |
| 13834.3 | 32.5° | 13432.9 | 13114.0 | 12696.1 | 12377.2 | 11909.8 | 11552.4 | 11502.9 | 11541.4 | 11722.9 |
| 14747.1 | 35° | 14483.2 | 14136.7 | 13630.9 | 13141.5 | 12696.1 | 12305.7 | 12278.2 | 12217.8 | 12459.7 |
| 16000.8 | 37.5° | 15742.3 | 15280.4 | 14802.1 | 14257.7 | 13784.8 | 13235.0 | 13075.5 | 13125.0 | 13323.0 |
| 17215.9 | 40° | 17160.9 | 16721.1 | 16121.7 | 15500.4 | 14923.0 | 14340.2 | 14109.3 | 14076.3 | 14422.7 |
| 18799.5 | 42.5° | 18799.5 | 18497.1 | 17622.8 | 16886.0 | 16127.2 | 15395.9 | 15121.0 | 15137.5 | 15456.4 |
| 20564.5 | 45° | 20713.0 | 20487.6 | 19712.3 | 18788.5 | 17897.8 | 16968.5 | 16787.0 | 16798.0 | 17226.9 |
| 22159.1 | 47.5° | 22972.9 | 23115.9 | 22384.6 | 21411.3 | 20311.6 | 19189.9 | 18750.0 | 18640.1 | 19118.4 |
| 24144.1 | 50° | 25260.3 | 26162.1 | 25612.2 | 24683.0 | 23385.3 | 22060.1 | 21493.8 | 21295.8 | 21983.2 |
| 26112.6 | 52.5° | 27938.1 | 29389.7 | 29560.2 | 28845.3 | 27388.2 | 25535.2 | 24908.4 | 24704.9 | 25579.2 |
| 28097.5 | 55° | 30714.9 | 32930.8 | 33761.0 | 33860.0 | 32122.5 | 30088.0 | 28905.8 | 28669.4 | 30038.5 |
| 29835.1 | 57.5° | 33519.1 | 36867.7 | 38566.8 | 39573.0 | 38115.9 | 35471.1 | 33788.5 | 33535.6 | 35960.5 |
| 31220.7 | 60° | 36400.3 | 40942.1 | 43669.4 | 46209.7 | 45368.5 | 42432.2 | 39831.4 | 39842.4 | 43163.5 |
| 31814.6 | 62.5° | 38506.3 | 44219.3 | 48563.1 | 52659.5 | 53418.3 | 51372.9 | 48079.2 | 47743.8 | 51257.4 |
| 30044.0 | 65° | 39628.0 | 47314.9 | 52648.5 | 57509.2 | 60154.0 | 60055.1 | 57371.8 | 57074.9 | 59659.2 |
| 24919.4 | 67.5° | 37950.9 | 47430.4 | 54116.6 | 58955.4 | 63805.1 | 66482.9 | 66142.0 | 66653.3 | 65135.7 |
| 19745.3 | 69° | 34376.9 | 45390.5 | 52808.0 | 58218.6 | 63117.8 | 67643.1 | 69188.1 | 69562.0 | 65383.2 |
| 16341.7 | 70° | 30450.9 | 42855.6 | 50625.1 | 55848.7 | 60346.5 | 65971.5 | 69281.6 | 69397.1 | 63194.7 |
| 9204.6 | 72.5° | 19003.0 | 32122.5 | 39765.4 | 44758.1 | 47545.9 | 52874.0 | 58449.5 | 58356.0 | 49992.7 |
| 5146.6 | 75° | 9979.9 | 18508.1 | 24737.9 | 27272.8 | 28834.3 | 31572.6 | 35344.6 | 34871.7 | 30049.5 |
| 2633.8 | 77.5° | 4442.8 | 7862.9 | 10023.8 | 11459.0 | 11860.4 | 12657.6 | 13031.5 | 12723.6 | 12080.3 |
| 1418.6 | 80° | 2155.4 | 3255.1 | 4233.9 | 4475.8 | 4189.9 | 3991.9 | 4085.4 | 4041.4 | 4420.8 |
| 819.3 | 82.5° | 1072.2 | 1495.6 | 1688.1 | 2023.5 | 2980.2 | 3662.0 | 3766.5 | 3722.5 | 3337.6 |
| 494.9 | 85° | 571.8 | 687.3 | 791.8 | 1451.6 | 2666.8 | 3343.1 | 3442.1 | 3425.6 | 3084.7 |
| 269.4 | 87.5° | 318.9 | 395.9 | 571.8 | 1160.2 | 1611.1 | 1704.5 | 1798.0 | 1743.0 | 1792.5 |
| 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P628124

CATALOG NUMBER: EPH-VN-08-D-730-U-T1

CANDELA DISTRIBUTION (continued):

| 105° | 115° | | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|---------|---------|-------|---------|---------|--------|--------|--------|--------|--------|
| 8082.9 | 8082.9 | 0° | 8082.9 | 8082.9 | 8082.9 | 8082.9 | 8082.9 | 8082.9 | 8082.9 |
| 8104.8 | 8176.3 | 2.5° | 8132.3 | 8176.3 | 8198.3 | 8115.8 | 8165.3 | 8121.3 | 8132.3 |
| 8231.3 | 8324.8 | 5° | 8269.8 | 8374.3 | 8357.8 | 8357.8 | 8368.8 | 8302.8 | 8330.3 |
| 8346.8 | 8484.2 | 7.5° | 8544.7 | 8583.2 | 8671.2 | 8638.2 | 8605.2 | 8539.2 | 8550.2 |
| 8660.2 | 8792.2 | 10° | 8918.6 | 8918.6 | 8973.6 | 8918.6 | 8814.2 | 8770.2 | 8759.2 |
| 8979.1 | 9226.6 | 12.5° | 9281.5 | 9226.6 | 9259.5 | 9100.1 | 8979.1 | 8891.1 | 8935.1 |
| 9265.0 | 9551.0 | 15° | 9606.0 | 9595.0 | 9474.0 | 9270.5 | 8973.6 | 8814.2 | 8825.2 |
| 9759.9 | 10012.8 | 17.5° | 10089.8 | 9990.8 | 9671.9 | 9144.1 | 8775.7 | 8621.7 | 8544.7 |
| 10221.8 | 10513.2 | 20° | 10568.2 | 10293.3 | 9649.9 | 8940.6 | 8451.3 | 8198.3 | 8203.8 |
| 10612.2 | 11030.1 | 22.5° | 10986.1 | 10408.7 | 9573.0 | 8682.2 | 8154.3 | 7813.4 | 7807.9 |
| 11162.0 | 11568.9 | 25° | 11387.5 | 10342.8 | 9419.0 | 8445.8 | 7824.4 | 7494.5 | 7450.5 |
| 11645.9 | 12173.8 | 27.5° | 11700.9 | 10282.3 | 9045.1 | 8066.4 | 7373.5 | 7104.1 | 7076.6 |
| 12085.8 | 12839.1 | 30° | 11898.8 | 10150.3 | 8709.7 | 7621.0 | 6955.7 | 6691.7 | 6680.7 |
| 12894.1 | 13405.4 | 32.5° | 12124.3 | 9946.9 | 8269.8 | 7225.1 | 6587.3 | 6301.3 | 6284.8 |
| 13845.3 | 14241.2 | 35° | 12333.2 | 9638.9 | 7912.4 | 6851.2 | 6202.4 | 5866.9 | 5817.5 |
| 15005.5 | 15187.0 | 37.5° | 12377.2 | 9298.0 | 7467.0 | 6405.8 | 5724.0 | 5399.6 | 5394.1 |
| 16484.6 | 16006.3 | 40° | 12382.7 | 8885.6 | 6994.1 | 5960.4 | 5256.6 | 4926.7 | 4904.7 |
| 18084.7 | 16699.1 | 42.5° | 12162.8 | 8412.8 | 6521.3 | 5432.6 | 4772.7 | 4382.3 | 4354.8 |
| 19992.7 | 17545.8 | 45° | 11656.9 | 7846.4 | 5916.4 | 4849.7 | 4239.4 | 3876.5 | 3832.5 |
| 22247.1 | 18310.1 | 47.5° | 10980.6 | 7137.1 | 5306.1 | 4255.9 | 3634.5 | 3304.6 | 3277.1 |
| 24704.9 | 18805.0 | 50° | 10067.8 | 6339.8 | 4569.3 | 3612.5 | 3024.2 | 2754.8 | 2688.8 |
| 27575.2 | 18871.0 | 52.5° | 8935.1 | 5427.1 | 3799.5 | 2941.7 | 2463.3 | 2226.9 | 2188.4 |
| 30709.4 | 18321.1 | 55° | 7582.5 | 4442.8 | 3035.2 | 2347.9 | 1913.5 | 1732.0 | 1699.0 |
| 33607.1 | 16930.0 | 57.5° | 6075.9 | 3420.1 | 2336.9 | 1814.5 | 1534.1 | 1407.6 | 1369.1 |
| 36829.2 | 14340.2 | 60° | 4541.8 | 2578.8 | 1792.5 | 1440.6 | 1253.7 | 1165.7 | 1149.2 |
| 39705.0 | 11140.0 | 62.5° | 3266.1 | 1941.0 | 1407.6 | 1204.2 | 1099.7 | 1055.7 | 1044.7 |
| 41327.0 | 7483.5 | 65° | 2402.9 | 1495.6 | 1171.2 | 1088.7 | 1011.7 | 973.2 | 956.7 |
| 41052.1 | 4899.2 | 67.5° | 1787.0 | 1198.7 | 1039.2 | 989.7 | 934.8 | 896.3 | 885.3 |
| 38473.3 | 3904.0 | 69° | 1506.6 | 1083.2 | 973.2 | 923.8 | 874.3 | 841.3 | 824.8 |
| 35416.1 | 3321.1 | 70° | 1363.6 | 1022.7 | 940.3 | 890.8 | 835.8 | 808.3 | 791.8 |
| 23759.2 | 2232.4 | 72.5° | 1072.2 | 885.3 | 835.8 | 780.8 | 742.3 | 709.3 | 703.8 |
| 12481.7 | 1578.1 | 75° | 885.3 | 758.8 | 720.3 | 676.3 | 637.8 | 604.8 | 604.8 |
| 5438.1 | 1132.7 | 77.5° | 742.3 | 626.8 | 593.8 | 549.9 | 511.4 | 478.4 | 472.9 |
| 2611.8 | 819.3 | 80° | 577.3 | 478.4 | 456.4 | 439.9 | 395.9 | 346.4 | 340.9 |
| 1380.1 | 588.3 | 82.5° | 412.4 | 324.4 | 318.9 | 307.9 | 269.4 | 241.9 | 230.9 |
| 747.8 | 351.9 | 85° | 258.4 | 187.0 | 170.5 | 148.5 | 132.0 | 132.0 | 132.0 |
| 362.9 | 154.0 | 87.5° | 99.0 | 55.0 | 55.0 | 44.0 | 33.0 | 33.0 | 33.0 |
| 0.0 | 0.0 | 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)