

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: P574975

Luminaire Tested: **EPH-VN-03-740-U-SL2**

Issue Date: 10/19/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P574975  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 10/19/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHEBUS  
Catalog Number: EPH-VN-03-740-U-SL2  
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

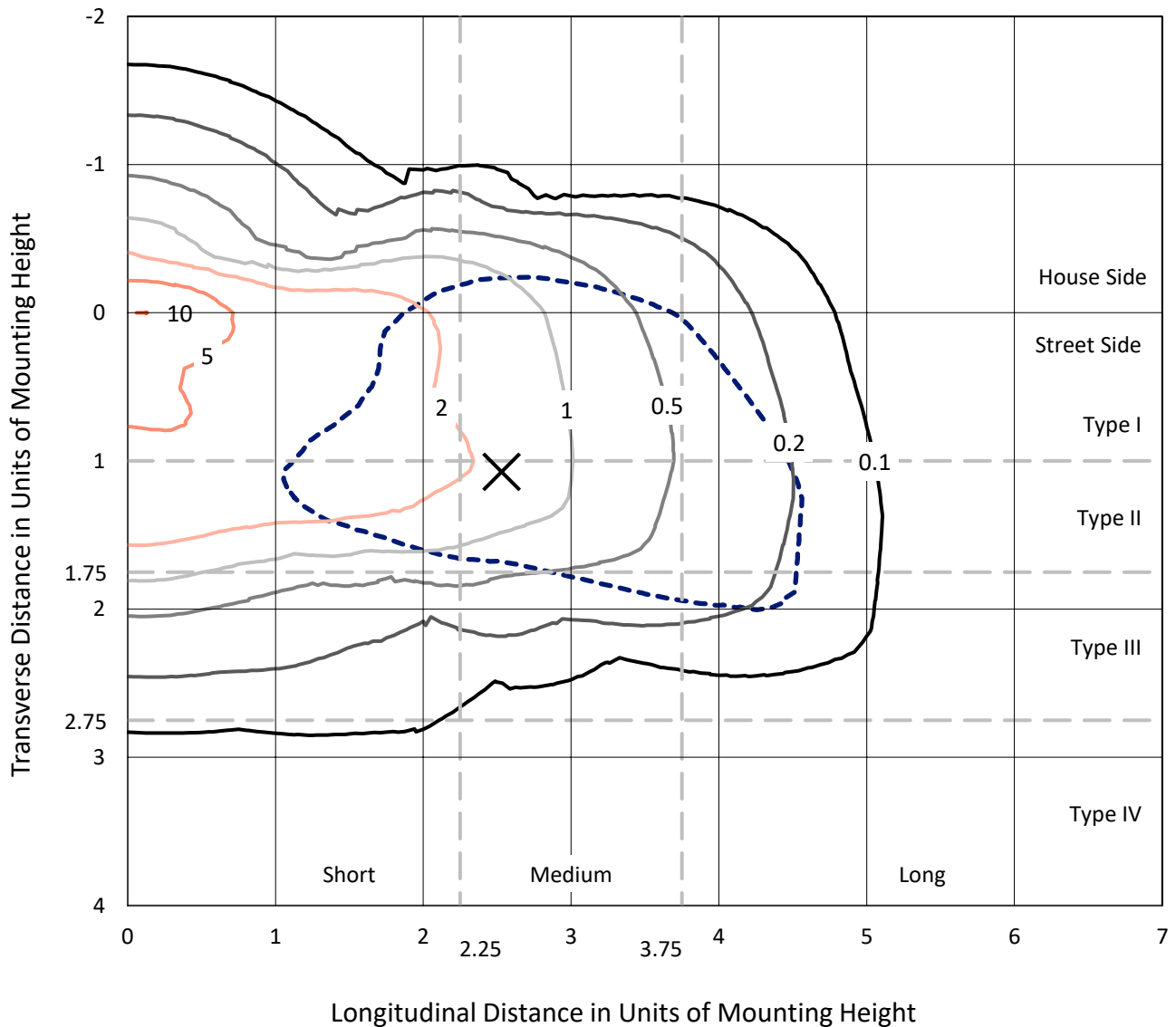
Lumens per Lamp: N/A  
Luminaire Lumens: 26894 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 232.1  
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

REPORT NUMBER: P574975  
 CATALOG NUMBER: EPH-VN-03-740-U-SL2

### Iso-Footcandle Lines of Horizontal Illumination

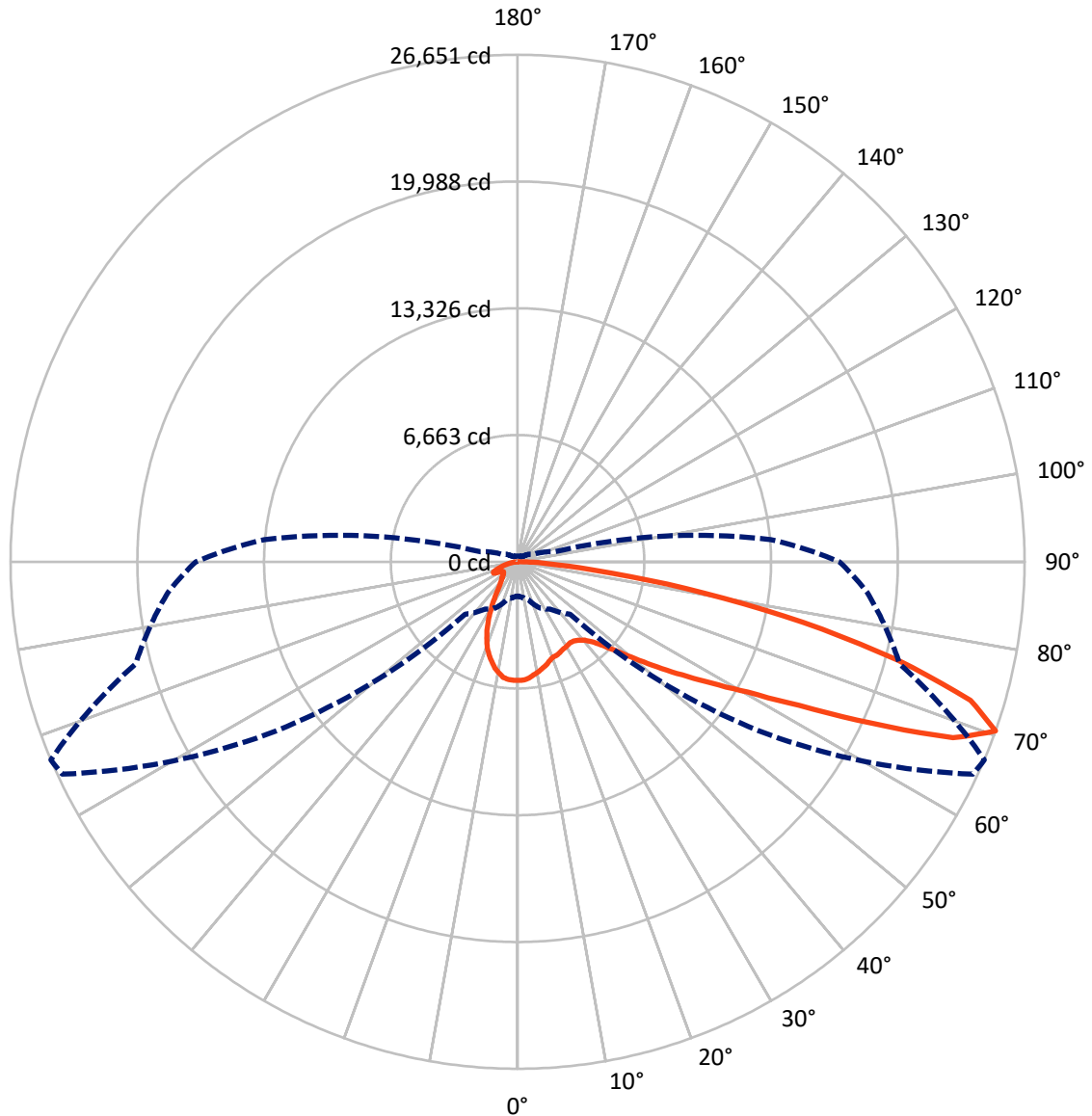
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type III - Medium - N/A

REPORT NUMBER: P574975  
CATALOG NUMBER: EPH-VN-03-740-U-SL2

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P574975  
 CATALOG NUMBER: EPH-VN-03-740-U-SL2

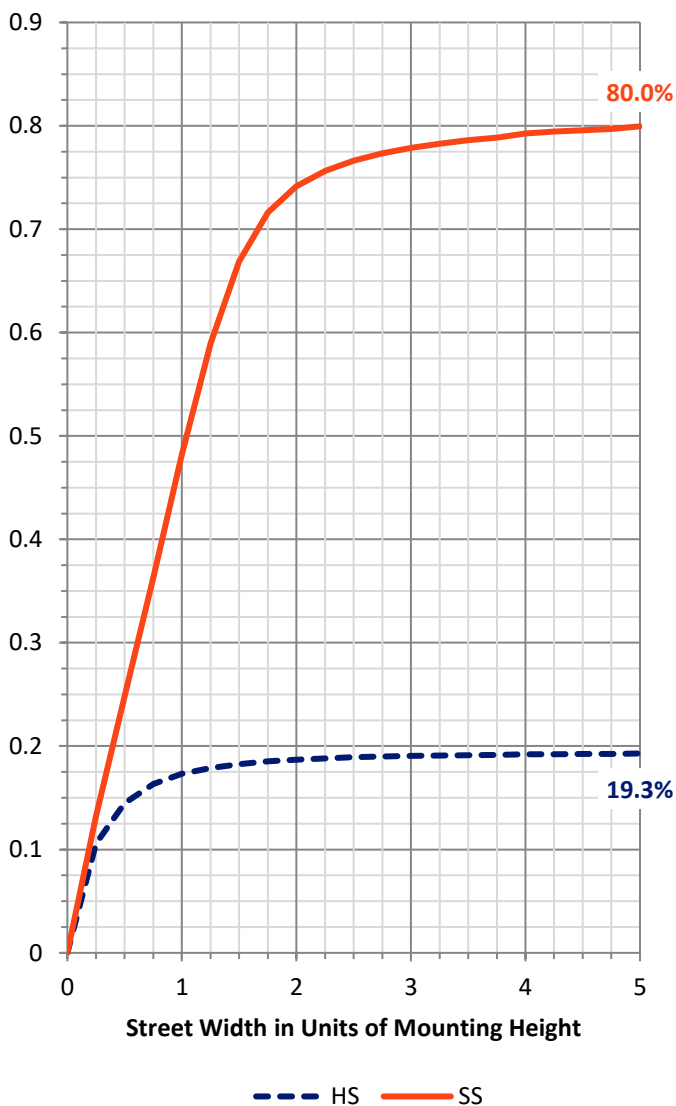
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5237.9   | 0.0    | 5237.9  |
|                    | % Fixture | 19.5     | 0.0    | 19.5    |
| <b>Street Side</b> | Lumens    | 21656.1  | 0.0    | 21656.1 |
|                    | % Fixture | 80.5     | 0.0    | 80.5    |
| <b>Total</b>       | Lumens    | 26894.0  | 0.0    | 26894.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 543.2   | 2.0       |
| 10°-20°   | 1301.0  | 4.8       |
| 20°-30°   | 1756.9  | 6.5       |
| 30°-40°   | 2350.9  | 8.7       |
| 40°-50°   | 3456.9  | 12.9      |
| 50°-60°   | 5388.5  | 20.0      |
| 60°-70°   | 6637.7  | 24.7      |
| 70°-80°   | 4690.1  | 17.4      |
| 80°-90°   | 768.7   | 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°    | 26894.0 | 100.0     |
| 0°-180°   | 26894.0 | 100.0     |

**Coefficient of Utilization**

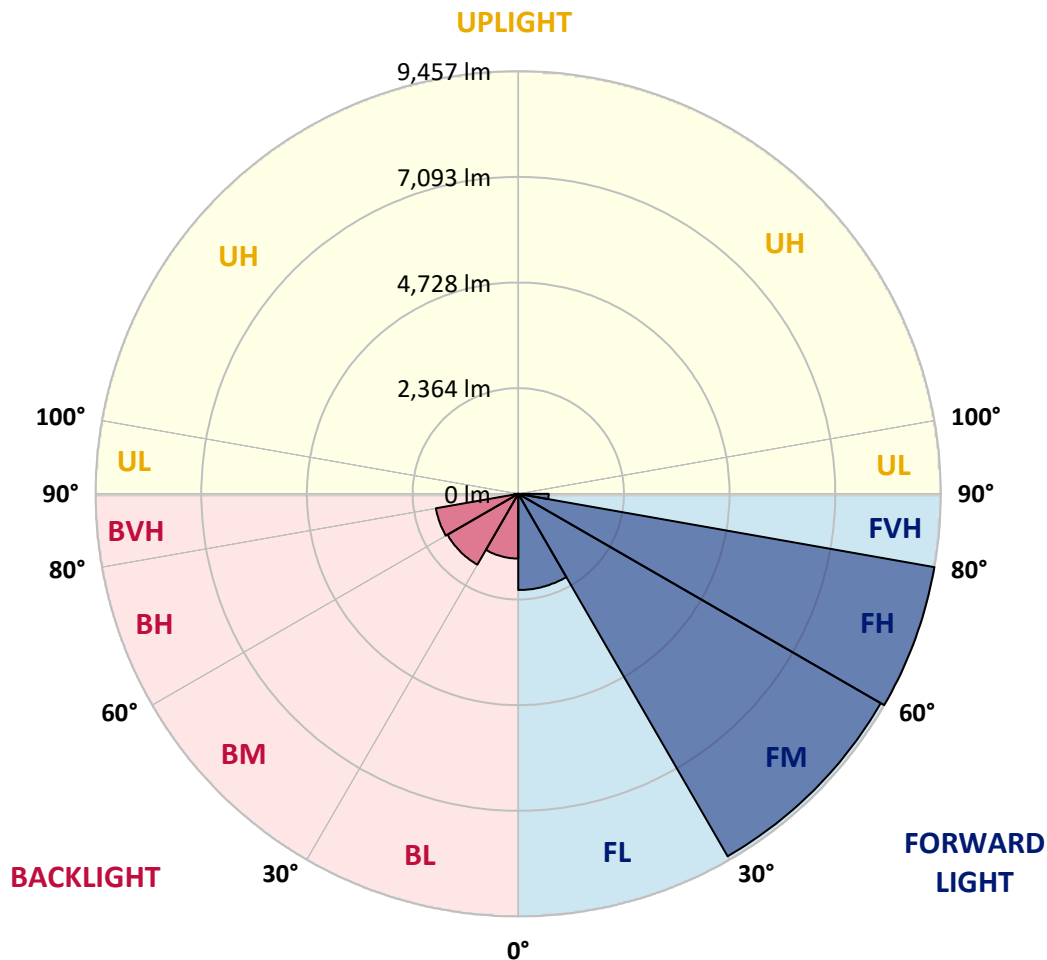


REPORT NUMBER: P574975  
 CATALOG NUMBER: EPH-VN-03-740-U-SL2

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 2152.7 | 8.0       |                         |      |          |
| FM (30°-60°)   | 9366.6 | 34.8      |                         |      |          |
| FH (60°-80°)   | 9456.8 | 35.2      |                         |      | G4/12000 |
| FVH (80°-90°)  | 680.1  | 2.5       |                         |      | G4/750   |
| BL (0°-30°)    | 1448.4 | 5.4       | B3/2500                 |      |          |
| BM (30°-60°)   | 1829.7 | 6.8       | B2/2500                 |      |          |
| BH (60°-80°)   | 1871.0 | 7.0       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 88.7   | 0.3       |                         |      | G1/100   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**  
 Type III Medium





REPORT NUMBER: P574975  
 CATALOG NUMBER: EPH-VN-03-740-U-SL2

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 65°     | 67°     | 75°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 6225.9 | 6225.9 | 6225.9 | 6225.9 | 6225.9  | 6225.9  | 6225.9  | 6225.9  | 6225.9  | 6225.9  |
| 2.5°  | 5797.1 | 5862.6 | 5886.4 | 5922.2 | 6014.5  | 6083.0  | 6124.6  | 6172.3  | 6228.9  | 6276.5  |
| 5°    | 5392.2 | 5427.9 | 5484.5 | 5523.2 | 5639.3  | 5823.9  | 5949.0  | 6151.4  | 6145.5  | 6219.9  |
| 7.5°  | 4999.2 | 5034.9 | 5061.7 | 5139.1 | 5305.8  | 5472.6  | 5701.8  | 6029.4  | 6005.5  | 6178.2  |
| 10°   | 4755.0 | 4728.2 | 4737.1 | 4868.2 | 4999.2  | 5186.7  | 5475.6  | 5809.0  | 5895.4  | 6163.3  |
| 12.5° | 4525.7 | 4496.0 | 4567.4 | 4650.8 | 4811.6  | 4981.3  | 5326.7  | 5627.4  | 5758.4  | 6109.8  |
| 15°   | 4382.8 | 4362.0 | 4451.3 | 4487.0 | 4677.6  | 4880.1  | 5124.2  | 5490.4  | 5633.4  | 6044.2  |
| 17.5° | 4302.4 | 4320.3 | 4353.0 | 4430.5 | 4552.5  | 4725.2  | 4993.2  | 5398.1  | 5460.7  | 5963.9  |
| 20°   | 4317.3 | 4338.2 | 4341.1 | 4373.9 | 4457.3  | 4591.2  | 4865.2  | 5299.9  | 5341.6  | 5949.0  |
| 22.5° | 4436.4 | 4406.6 | 4418.6 | 4397.7 | 4421.5  | 4525.7  | 4766.9  | 5168.9  | 5329.7  | 5823.9  |
| 25°   | 4615.1 | 4573.4 | 4567.4 | 4496.0 | 4451.3  | 4481.1  | 4749.1  | 5136.1  | 5240.3  | 5785.2  |
| 27.5° | 4930.7 | 4868.2 | 4868.2 | 4761.0 | 4579.3  | 4531.7  | 4698.4  | 5082.5  | 5174.8  | 5749.5  |
| 30°   | 5234.4 | 5234.4 | 5237.4 | 5085.5 | 4883.0  | 4647.8  | 4719.3  | 5061.7  | 5121.2  | 5642.3  |
| 32.5° | 5603.6 | 5594.7 | 5579.8 | 5505.3 | 5192.7  | 4841.4  | 4820.5  | 5034.9  | 5064.7  | 5606.6  |
| 35°   | 5963.9 | 5940.0 | 6056.2 | 5990.7 | 5672.1  | 5219.5  | 4924.7  | 5046.8  | 5112.3  | 5553.0  |
| 37.5° | 6234.8 | 6249.7 | 6490.9 | 6532.6 | 6258.6  | 5648.2  | 5219.5  | 5165.9  | 5228.4  | 5630.4  |
| 40°   | 6586.1 | 6645.7 | 6872.0 | 7011.9 | 6845.2  | 6214.0  | 5687.0  | 5365.4  | 5410.0  | 5803.1  |
| 42.5° | 7047.7 | 7098.3 | 7387.1 | 7568.7 | 7521.1  | 6934.5  | 6148.5  | 5782.2  | 5746.5  | 6091.9  |
| 45°   | 7658.0 | 7667.0 | 7958.8 | 8208.9 | 8307.1  | 7687.8  | 6880.9  | 6309.2  | 6279.5  | 6589.1  |
| 47.5° | 8384.5 | 8375.6 | 8557.2 | 8825.2 | 9090.2  | 8587.0  | 7723.5  | 7110.2  | 7003.0  | 7300.7  |
| 50°   | 9087.2 | 9048.5 | 9090.2 | 9432.6 | 9941.7  | 9712.5  | 8747.8  | 8089.8  | 7982.6  | 8146.3  |
| 52.5° | 9474.3 | 9521.9 | 9408.8 | 9861.4 | 10846.9 | 11043.4 | 10105.5 | 9259.9  | 9167.6  | 9248.0  |
| 55°   | 9203.3 | 9301.6 | 9227.2 | 9655.9 | 11242.9 | 12666.1 | 11862.2 | 10614.7 | 10495.6 | 10465.8 |
| 57.5° | 8051.1 | 8229.7 | 8244.6 | 8923.5 | 11105.9 | 13922.6 | 14333.5 | 12213.5 | 12034.9 | 11731.2 |
| 60°   | 6181.2 | 6359.9 | 6496.8 | 7300.7 | 9932.8  | 14672.9 | 17197.8 | 14488.3 | 13898.8 | 13112.7 |
| 62.5° | 4332.2 | 4454.3 | 4591.2 | 5085.5 | 7658.0  | 14232.3 | 19675.1 | 17692.1 | 16605.3 | 14568.7 |
| 65°   | 3156.1 | 3251.4 | 3391.3 | 3683.1 | 4704.4  | 11775.9 | 20824.4 | 21497.3 | 20467.1 | 16420.7 |
| 67.5° | 2376.0 | 2435.6 | 2620.2 | 3087.6 | 3260.3  | 7273.9  | 19633.4 | 25516.8 | 24683.2 | 18478.1 |
| 70°   | 1798.4 | 1849.0 | 2021.7 | 2661.9 | 3045.9  | 3900.5  | 15488.8 | 26413.1 | 26651.3 | 20785.7 |
| 72.5° | 1238.6 | 1295.2 | 1488.7 | 2218.2 | 2900.0  | 3093.6  | 9721.4  | 23995.4 | 24897.5 | 21735.5 |
| 75°   | 759.3  | 798.0  | 911.1  | 1682.3 | 2879.2  | 3025.1  | 5350.5  | 19663.2 | 20618.9 | 20083.0 |
| 77.5° | 535.9  | 533.0  | 553.8  | 985.5  | 2495.1  | 3043.0  | 3299.0  | 14407.9 | 15336.9 | 14801.0 |
| 80°   | 390.0  | 393.0  | 413.9  | 589.5  | 1694.2  | 3093.6  | 2599.3  | 9650.0  | 9926.9  | 7717.6  |
| 82.5° | 235.2  | 247.1  | 297.7  | 399.0  | 1018.3  | 2792.9  | 2402.8  | 5362.4  | 5017.0  | 2477.2  |
| 85°   | 125.1  | 125.1  | 175.7  | 253.1  | 541.9   | 2084.2  | 2313.5  | 2551.7  | 2137.8  | 768.2   |
| 87.5° | 29.8   | 29.8   | 50.6   | 101.2  | 217.4   | 997.4   | 1578.1  | 1015.3  | 812.8   | 259.0   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



REPORT NUMBER: P574975

CATALOG NUMBER: EPH-VN-03-740-U-SL2

**CANDELA DISTRIBUTION (continued):**

| 85°     |       | 90°     | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 6225.9  | 0°    | 6225.9  | 6225.9  | 6225.9 | 6225.9 | 6225.9 | 6225.9 | 6225.9 | 6225.9 | 6225.9 | 6225.9 |
| 6306.3  | 2.5°  | 6294.4  | 6258.6  | 6303.3 | 6214.0 | 6142.5 | 6145.5 | 6035.3 | 6029.4 | 6014.5 | 5937.1 |
| 6333.1  | 5°    | 6365.8  | 6336.0  | 6285.4 | 6187.2 | 6029.4 | 5871.6 | 5776.3 | 5654.2 | 5603.6 | 5576.8 |
| 6353.9  | 7.5°  | 6434.3  | 6380.7  | 6234.8 | 6097.8 | 5853.7 | 5555.9 | 5383.3 | 5219.5 | 5011.1 | 4987.2 |
| 6413.5  | 10°   | 6452.2  | 6339.0  | 6151.4 | 5859.6 | 5535.1 | 5204.6 | 4811.6 | 4507.9 | 4347.1 | 4222.0 |
| 6440.3  | 12.5° | 6425.4  | 6377.7  | 6017.5 | 5642.3 | 5151.0 | 4632.9 | 4174.4 | 3745.6 | 3447.9 | 3293.1 |
| 6398.6  | 15°   | 6422.4  | 6339.0  | 5868.6 | 5311.8 | 4683.5 | 4007.7 | 3355.6 | 2840.5 | 2527.9 | 2399.8 |
| 6389.6  | 17.5° | 6425.4  | 6225.9  | 5692.9 | 4978.3 | 4132.7 | 3218.6 | 2501.1 | 2078.3 | 1905.6 | 1887.7 |
| 6413.5  | 20°   | 6365.8  | 6142.5  | 5508.3 | 4585.3 | 3441.9 | 2417.7 | 1816.3 | 1643.6 | 1643.6 | 1667.4 |
| 6362.8  | 22.5° | 6312.2  | 6017.5  | 5216.5 | 4100.0 | 2739.3 | 1750.7 | 1476.8 | 1426.2 | 1482.8 | 1524.5 |
| 6359.9  | 25°   | 6237.8  | 5913.2  | 4918.8 | 3596.8 | 2084.2 | 1411.3 | 1283.3 | 1295.2 | 1348.8 | 1423.2 |
| 6291.4  | 27.5° | 6130.6  | 5731.6  | 4564.4 | 3013.2 | 1551.3 | 1217.8 | 1185.0 | 1191.0 | 1247.6 | 1280.3 |
| 6199.1  | 30°   | 6008.5  | 5547.0  | 4236.9 | 2432.6 | 1229.7 | 1116.5 | 1113.6 | 1128.5 | 1137.4 | 1155.3 |
| 6172.3  | 32.5° | 5853.7  | 5302.9  | 3888.6 | 1890.7 | 1107.6 | 1060.0 | 1048.1 | 1039.1 | 1048.1 | 1045.1 |
| 6088.9  | 35°   | 5743.5  | 5171.9  | 3534.2 | 1441.1 | 1039.1 | 1009.4 | 1000.4 | 985.5  | 973.6  | 955.8  |
| 6088.9  | 37.5° | 5713.7  | 5040.8  | 3162.1 | 1176.1 | 985.5  | 970.7  | 940.9  | 914.1  | 899.2  | 890.3  |
| 6219.9  | 40°   | 5695.9  | 4954.5  | 2798.8 | 1033.2 | 940.9  | 926.0  | 890.3  | 854.5  | 839.6  | 830.7  |
| 6416.4  | 42.5° | 5758.4  | 4906.9  | 2429.6 | 961.7  | 902.2  | 875.4  | 836.7  | 795.0  | 792.0  | 786.0  |
| 6776.7  | 45°   | 5978.7  | 4966.4  | 2087.2 | 911.1  | 863.5  | 818.8  | 768.2  | 747.3  | 744.4  | 738.4  |
| 7375.2  | 47.5° | 6479.0  | 5115.3  | 1795.4 | 878.4  | 821.8  | 783.1  | 729.5  | 699.7  | 696.7  | 693.7  |
| 8274.4  | 50°   | 7169.7  | 5573.8  | 1551.3 | 839.6  | 795.0  | 741.4  | 690.8  | 658.0  | 652.1  | 640.2  |
| 9471.3  | 52.5° | 8253.5  | 6345.0  | 1405.4 | 818.8  | 747.3  | 702.7  | 649.1  | 613.4  | 598.5  | 586.6  |
| 10832.0 | 55°   | 9474.3  | 7300.7  | 1378.6 | 783.1  | 696.7  | 655.0  | 607.4  | 571.7  | 556.8  | 541.9  |
| 12109.3 | 57.5° | 10864.8 | 8566.2  | 1569.1 | 759.3  | 661.0  | 607.4  | 553.8  | 521.1  | 509.1  | 494.3  |
| 13339.0 | 60°   | 12160.0 | 9828.6  | 2161.6 | 723.5  | 628.2  | 562.7  | 509.1  | 476.4  | 461.5  | 446.6  |
| 14851.6 | 62.5° | 13657.6 | 11391.8 | 3165.0 | 723.5  | 598.5  | 515.1  | 461.5  | 437.7  | 428.8  | 413.9  |
| 16385.0 | 65°   | 15429.2 | 13008.5 | 3897.5 | 768.2  | 589.5  | 473.4  | 416.8  | 393.0  | 384.1  | 375.2  |
| 17617.6 | 67.5° | 16778.0 | 13937.5 | 3352.6 | 887.3  | 628.2  | 437.7  | 372.2  | 357.3  | 351.3  | 342.4  |
| 18445.4 | 70°   | 16920.9 | 13371.8 | 2021.7 | 958.7  | 667.0  | 402.0  | 333.5  | 318.6  | 318.6  | 309.7  |
| 17558.1 | 72.5° | 15637.6 | 11865.2 | 1360.7 | 854.5  | 604.4  | 360.3  | 294.8  | 282.9  | 276.9  | 270.9  |
| 15360.7 | 75°   | 13085.9 | 10063.8 | 1074.9 | 681.8  | 464.5  | 297.7  | 256.1  | 244.2  | 235.2  | 232.2  |
| 10424.1 | 77.5° | 8789.5  | 6541.5  | 795.0  | 533.0  | 342.4  | 241.2  | 214.4  | 202.5  | 193.5  | 190.6  |
| 4111.9  | 80°   | 3376.4  | 2492.1  | 512.1  | 387.1  | 241.2  | 190.6  | 169.7  | 157.8  | 151.9  | 142.9  |
| 1131.4  | 82.5° | 994.5   | 806.9   | 285.8  | 238.2  | 154.8  | 131.0  | 122.1  | 113.1  | 104.2  | 95.3   |
| 419.8   | 85°   | 410.9   | 369.2   | 175.7  | 125.1  | 95.3   | 77.4   | 71.5   | 62.5   | 53.6   | 47.6   |
| 172.7   | 87.5° | 190.6   | 157.8   | 80.4   | 47.6   | 32.8   | 17.9   | 8.9    | 3.0    | 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    |

(END O





| 180°   |
|--------|
| 6225.9 |
| 5963.9 |
| 5588.7 |
| 4945.6 |
| 4174.4 |
| 3251.4 |
| 2399.8 |
| 1902.6 |
| 1676.3 |
| 1542.3 |
| 1417.3 |
| 1274.4 |
| 1152.3 |
| 1036.2 |
| 952.8  |
| 884.3  |
| 833.7  |
| 795.0  |
| 744.4  |
| 693.7  |
| 640.2  |
| 586.6  |
| 535.9  |
| 488.3  |
| 446.6  |
| 410.9  |
| 372.2  |
| 336.5  |
| 303.7  |
| 268.0  |
| 226.3  |
| 181.6  |
| 137.0  |
| 92.3   |
| 41.7   |
| 0.0    |
| 0.0    |

F REPORT)