

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: P575021

Luminaire Tested: **EPH-VN-03-750-U-SL3**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575021
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-03-750-U-SL3
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

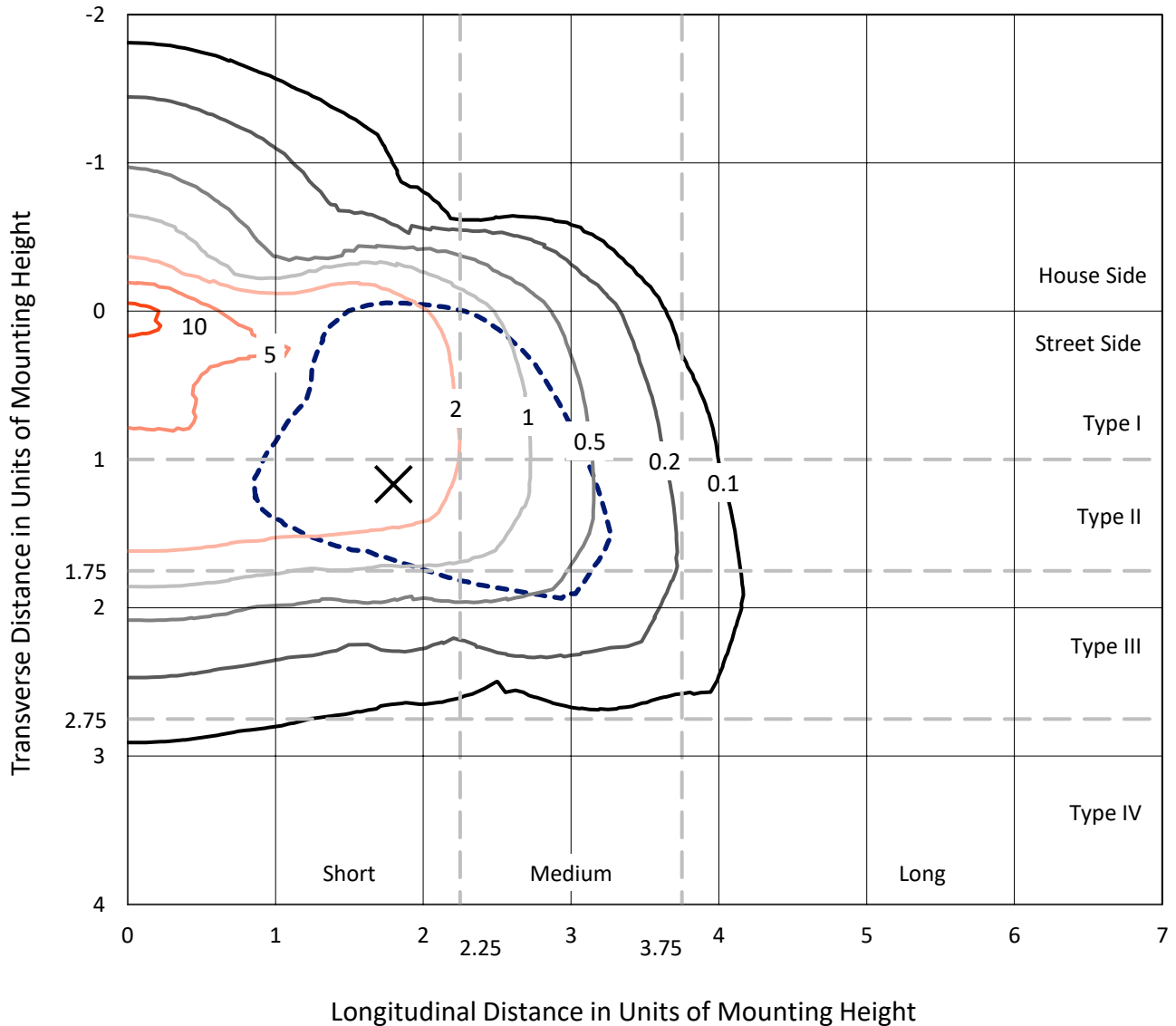
Lumens per Lamp: N/A
Luminaire Lumens: 27224.8 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

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Iso-Footcandle Lines of Horizontal Illumination

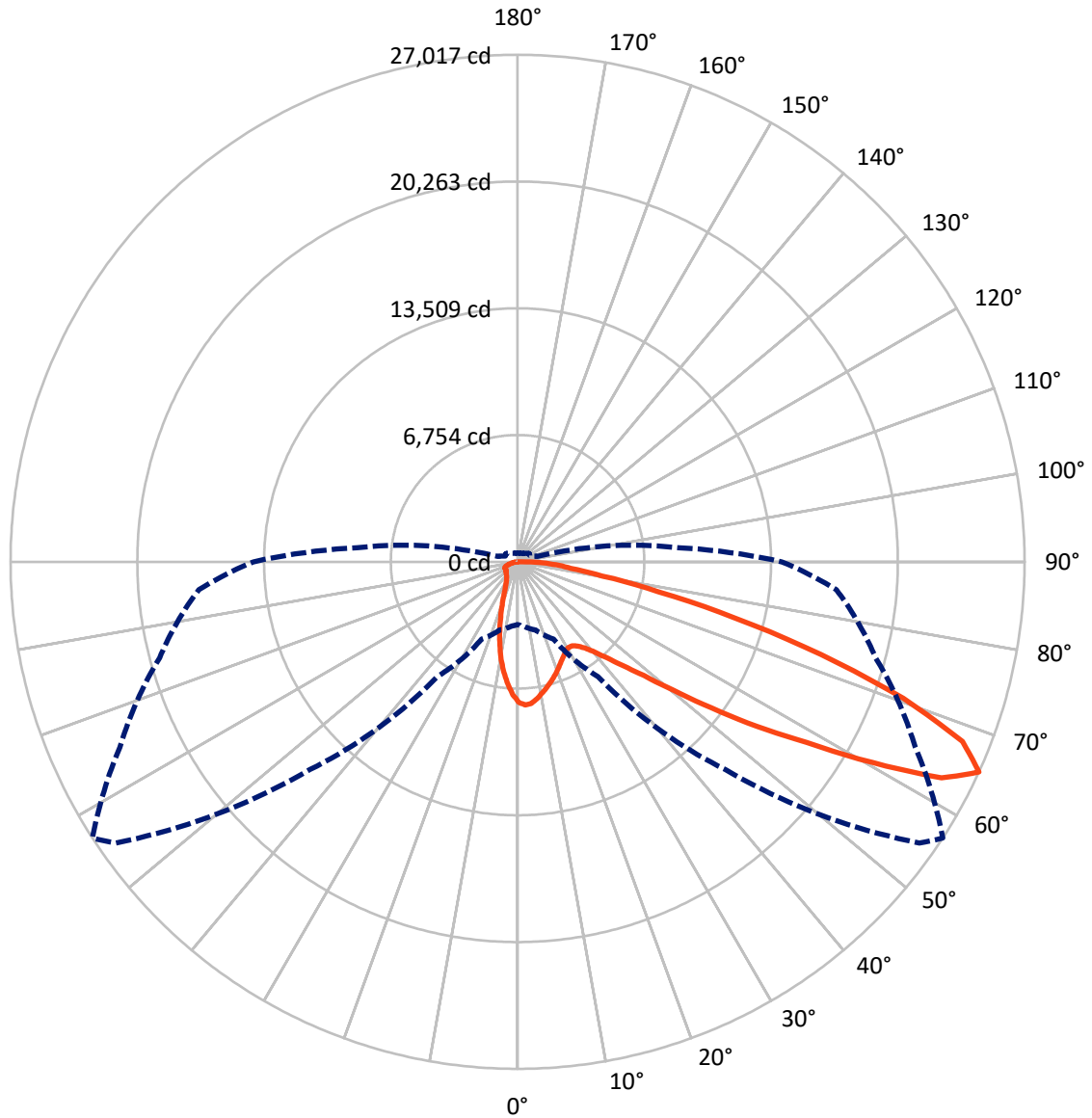
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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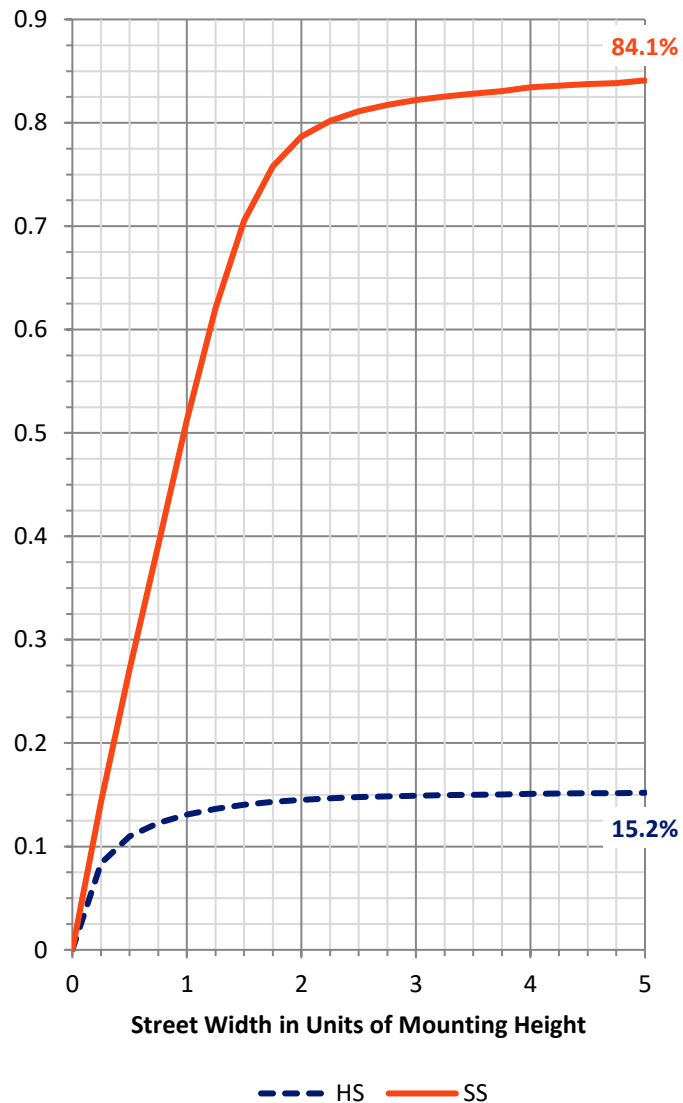
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4175.2 | 0.0 | 4175.2 |
| | % Fixture | 15.3 | 0.0 | 15.3 |
| Street Side | Lumens | 23049.6 | 0.0 | 23049.6 |
| | % Fixture | 84.7 | 0.0 | 84.7 |
| Total | Lumens | 27224.8 | 0.0 | 27224.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 626.9 | 2.3 |
| 10°-20° | 1349.3 | 5.0 |
| 20°-30° | 1744.5 | 6.4 |
| 30°-40° | 2347.5 | 8.6 |
| 40°-50° | 3743.2 | 13.7 |
| 50°-60° | 6611.3 | 24.3 |
| 60°-70° | 7273.3 | 26.7 |
| 70°-80° | 3042.6 | 11.2 |
| 80°-90° | 486.3 | 1.8 |
| 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° | 27224.8 | 100.0 |
| 0°-180° | 27224.8 | 100.0 |

Coefficient of Utilization



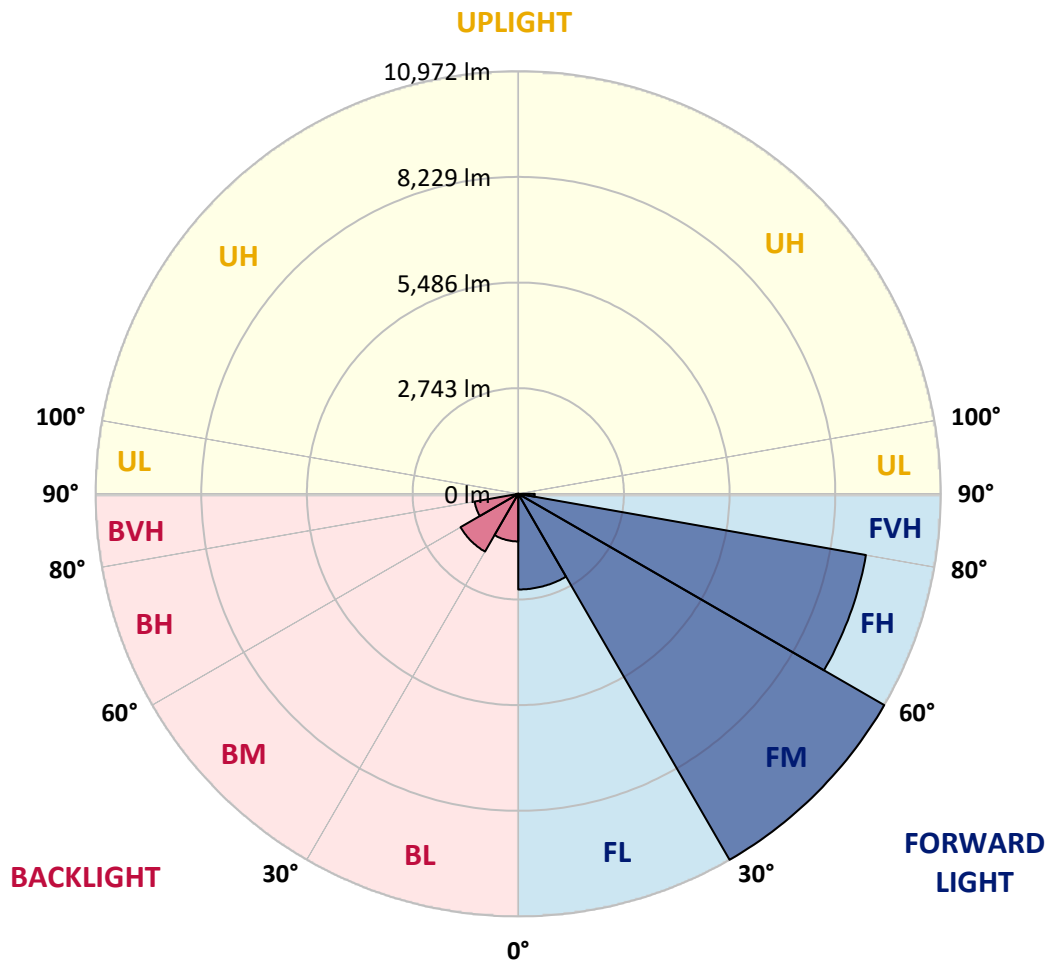
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2484.2 | 9.1 | | | |
| FM (30°-60°) | 10971.6 | 40.3 | | | |
| FH (60°-80°) | 9164.7 | 33.7 | | | G4/12000 |
| FVH (80°-90°) | 429.2 | 1.6 | | | G3/500 |
| BL (0°-30°) | 1236.5 | 4.5 | B3/2500 | | |
| BM (30°-60°) | 1730.4 | 6.4 | B2/2500 | | |
| BH (60°-80°) | 1151.2 | 4.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 57.0 | 0.2 | | | 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7486.4 | 7486.4 | 7486.4 | 7486.4 | 7486.4 | 7486.4 | 7486.4 | 7486.4 | 7486.4 | 7486.4 |
| 2.5° | 7688.6 | 7700.9 | 7700.9 | 7725.4 | 7642.7 | 7682.5 | 7676.3 | 7639.6 | 7651.8 | 7587.5 |
| 5° | 7471.1 | 7461.9 | 7510.9 | 7517.1 | 7581.4 | 7599.8 | 7615.1 | 7590.6 | 7596.7 | 7455.8 |
| 7.5° | 6913.6 | 6910.6 | 6993.3 | 7063.7 | 7198.5 | 7324.1 | 7406.8 | 7382.3 | 7416.0 | 7327.1 |
| 10° | 6252.0 | 6322.4 | 6408.2 | 6478.6 | 6726.8 | 6886.0 | 7100.5 | 7121.9 | 7250.6 | 7229.1 |
| 12.5° | 5755.7 | 5786.4 | 5850.7 | 6052.9 | 6279.5 | 6543.0 | 6849.3 | 6876.9 | 7002.4 | 7063.7 |
| 15° | 5348.3 | 5375.9 | 5458.6 | 5608.7 | 5862.9 | 6175.4 | 6564.4 | 6634.9 | 6886.0 | 6907.5 |
| 17.5° | 5051.2 | 5072.6 | 5127.8 | 5277.9 | 5486.2 | 5887.4 | 6255.0 | 6380.6 | 6711.4 | 6815.6 |
| 20° | 4934.8 | 4888.8 | 4919.5 | 5014.4 | 5222.7 | 5532.1 | 6006.9 | 6117.2 | 6539.9 | 6745.1 |
| 22.5° | 4882.7 | 4842.9 | 4861.3 | 4855.2 | 5020.6 | 5241.1 | 5740.4 | 5856.8 | 6377.6 | 6662.4 |
| 25° | 4922.5 | 4922.5 | 4904.2 | 4888.8 | 4907.2 | 5051.2 | 5452.5 | 5633.2 | 6160.1 | 6592.0 |
| 27.5° | 5137.0 | 5054.3 | 5063.4 | 4999.1 | 4980.7 | 4980.7 | 5323.8 | 5431.0 | 6089.6 | 6552.2 |
| 30° | 5274.8 | 5314.6 | 5317.7 | 5222.7 | 5127.8 | 4956.2 | 5204.4 | 5308.5 | 6031.4 | 6601.2 |
| 32.5° | 5627.1 | 5608.7 | 5556.6 | 5538.2 | 5397.3 | 5204.4 | 5262.6 | 5333.0 | 5997.7 | 6711.4 |
| 35° | 5979.3 | 5970.2 | 5973.2 | 5964.0 | 5817.0 | 5532.1 | 5418.8 | 5513.7 | 6059.0 | 6904.4 |
| 37.5° | 6343.9 | 6368.4 | 6472.5 | 6472.5 | 6316.3 | 6006.9 | 5856.8 | 5829.2 | 6282.6 | 7219.9 |
| 40° | 6708.4 | 6769.6 | 6901.4 | 7109.7 | 6889.1 | 6601.2 | 6359.2 | 6316.3 | 6552.2 | 7642.7 |
| 42.5° | 7057.6 | 7158.7 | 7419.0 | 7728.4 | 7654.9 | 7367.0 | 7045.3 | 6996.3 | 7106.6 | 8270.6 |
| 45° | 7504.8 | 7590.6 | 8001.0 | 8475.8 | 8576.9 | 8322.7 | 7945.9 | 7906.1 | 7900.0 | 9189.6 |
| 47.5° | 8184.8 | 8276.7 | 8687.2 | 9165.1 | 9477.5 | 9517.3 | 9094.6 | 9051.7 | 8904.7 | 10430.2 |
| 50° | 9036.4 | 9186.5 | 9532.6 | 10090.1 | 10543.5 | 10969.3 | 10849.8 | 10724.2 | 10436.3 | 11872.9 |
| 52.5° | 9658.2 | 9842.0 | 10310.7 | 11024.4 | 11823.9 | 12500.9 | 12929.7 | 12929.7 | 12268.1 | 13456.6 |
| 55° | 9823.6 | 9933.9 | 10525.1 | 11557.4 | 12926.7 | 14639.0 | 15536.5 | 15469.1 | 14449.1 | 15123.0 |
| 57.5° | 9165.1 | 9309.0 | 10025.8 | 11107.1 | 13505.6 | 16639.2 | 18124.9 | 18140.2 | 16832.2 | 17058.9 |
| 60° | 7351.7 | 7397.6 | 8243.0 | 9688.9 | 12948.1 | 18250.5 | 21659.8 | 21718.0 | 19543.1 | 18783.5 |
| 62.5° | 5081.8 | 5228.9 | 5866.0 | 7134.2 | 10727.3 | 18069.7 | 25069.1 | 25357.1 | 21714.9 | 19693.2 |
| 65° | 3345.0 | 3433.8 | 3773.8 | 4545.8 | 7468.1 | 15662.1 | 26129.0 | 27017.3 | 23375.2 | 19745.3 |
| 67.5° | 2426.0 | 2441.4 | 2542.4 | 2940.7 | 4487.6 | 11263.3 | 24318.6 | 25571.5 | 23997.0 | 19310.3 |
| 70° | 1960.4 | 1972.7 | 2009.5 | 2263.7 | 2897.8 | 7048.4 | 19834.1 | 21797.6 | 22131.5 | 17248.8 |
| 72.5° | 1592.9 | 1608.2 | 1654.1 | 1893.1 | 2389.3 | 3920.9 | 14504.2 | 16896.5 | 18002.4 | 12761.2 |
| 75° | 1252.8 | 1265.1 | 1375.4 | 1611.2 | 2245.3 | 2692.5 | 9621.5 | 11964.8 | 12114.9 | 7458.9 |
| 77.5° | 857.7 | 879.1 | 1013.9 | 1366.2 | 2113.6 | 2355.6 | 5997.7 | 7664.1 | 6876.9 | 2919.2 |
| 80° | 545.2 | 575.9 | 655.5 | 1035.4 | 1868.5 | 2248.4 | 3731.0 | 4576.4 | 3011.1 | 998.6 |
| 82.5° | 321.6 | 352.3 | 431.9 | 670.8 | 1467.3 | 2086.0 | 2628.2 | 2864.1 | 1412.1 | 511.6 |
| 85° | 177.7 | 199.1 | 260.4 | 404.3 | 860.8 | 1853.2 | 2104.4 | 2055.4 | 808.7 | 272.6 |
| 87.5° | 58.2 | 67.4 | 95.0 | 162.3 | 355.3 | 873.0 | 1262.0 | 1185.5 | 419.7 | 125.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P575021

CATALOG NUMBER: EPH-VN-03-750-U-SL3

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 7486.4 | 0° | 7486.4 | 7486.4 | 7486.4 | 7486.4 | 7486.4 | 7486.4 | 7486.4 | 7486.4 | 7486.4 | 7486.4 |
| 7523.2 | 2.5° | 7480.3 | 7471.1 | 7333.3 | 7229.1 | 7051.5 | 6904.4 | 6846.2 | 6766.6 | 6763.5 | 6705.3 |
| 7394.5 | 5° | 7299.6 | 7204.6 | 6993.3 | 6791.1 | 6475.6 | 6264.2 | 6071.2 | 5936.5 | 5881.3 | 5761.9 |
| 7183.2 | 7.5° | 7066.8 | 6941.2 | 6616.5 | 6236.7 | 5866.0 | 5535.2 | 5235.0 | 4934.8 | 4766.3 | 4708.1 |
| 6968.8 | 10° | 6824.8 | 6604.2 | 6123.3 | 5697.5 | 5179.9 | 4671.4 | 4199.6 | 3776.9 | 3547.2 | 3384.8 |
| 6837.0 | 12.5° | 6631.8 | 6337.7 | 5725.1 | 5088.0 | 4404.9 | 3724.8 | 3176.5 | 2732.4 | 2472.0 | 2349.5 |
| 6665.5 | 15° | 6414.3 | 6025.3 | 5290.1 | 4484.5 | 3632.9 | 2861.0 | 2325.0 | 1975.8 | 1871.6 | 1813.4 |
| 6487.8 | 17.5° | 6184.6 | 5734.3 | 4818.4 | 3890.2 | 2879.4 | 2153.4 | 1807.3 | 1666.4 | 1620.4 | 1595.9 |
| 6319.4 | 20° | 5970.2 | 5473.9 | 4334.4 | 3228.6 | 2254.5 | 1727.6 | 1565.3 | 1491.8 | 1488.7 | 1501.0 |
| 6169.3 | 22.5° | 5666.9 | 5133.9 | 3856.6 | 2616.0 | 1801.2 | 1504.0 | 1399.9 | 1381.5 | 1399.9 | 1415.2 |
| 6016.1 | 25° | 5495.4 | 4855.2 | 3323.6 | 2076.8 | 1488.7 | 1335.5 | 1301.9 | 1295.7 | 1323.3 | 1341.7 |
| 5890.5 | 27.5° | 5317.7 | 4567.2 | 2827.3 | 1663.3 | 1304.9 | 1216.1 | 1210.0 | 1216.1 | 1243.7 | 1271.2 |
| 5817.0 | 30° | 5179.9 | 4337.5 | 2361.7 | 1390.7 | 1164.0 | 1130.3 | 1124.2 | 1130.3 | 1145.6 | 1148.7 |
| 5838.4 | 32.5° | 5066.5 | 4064.9 | 1966.6 | 1206.9 | 1078.2 | 1050.7 | 1056.8 | 1053.7 | 1056.8 | 1059.9 |
| 5912.0 | 35° | 4999.1 | 3902.5 | 1641.9 | 1093.6 | 1007.8 | 986.3 | 983.3 | 974.1 | 977.2 | 980.2 |
| 6086.6 | 37.5° | 5143.1 | 3822.9 | 1384.6 | 1013.9 | 958.8 | 940.4 | 934.3 | 928.1 | 919.0 | 919.0 |
| 6506.2 | 40° | 5360.6 | 3780.0 | 1228.3 | 961.8 | 922.0 | 900.6 | 882.2 | 876.1 | 876.1 | 879.1 |
| 7091.3 | 42.5° | 5792.5 | 3850.4 | 1121.1 | 922.0 | 876.1 | 851.6 | 833.2 | 836.3 | 845.4 | 854.6 |
| 7896.9 | 45° | 6417.4 | 4064.9 | 1072.1 | 891.4 | 848.5 | 814.8 | 802.6 | 799.5 | 808.7 | 824.0 |
| 9076.2 | 47.5° | 7235.2 | 4398.7 | 1053.7 | 863.8 | 830.1 | 784.2 | 768.9 | 778.0 | 790.3 | 811.7 |
| 10571.1 | 50° | 8573.9 | 5149.2 | 1069.1 | 839.3 | 802.6 | 768.9 | 750.5 | 741.3 | 750.5 | 765.8 |
| 12369.2 | 52.5° | 10322.9 | 6512.3 | 1127.3 | 827.1 | 784.2 | 756.6 | 726.0 | 710.7 | 719.8 | 732.1 |
| 14461.3 | 55° | 12415.1 | 8374.8 | 1289.6 | 811.7 | 753.5 | 738.2 | 704.5 | 673.9 | 680.0 | 680.0 |
| 16525.9 | 57.5° | 14259.1 | 9780.8 | 1482.6 | 790.3 | 735.2 | 713.7 | 670.8 | 634.1 | 628.0 | 631.0 |
| 17576.6 | 60° | 15086.2 | 10154.5 | 1574.5 | 784.2 | 735.2 | 683.1 | 624.9 | 588.1 | 578.9 | 572.8 |
| 17742.0 | 62.5° | 14942.2 | 9508.1 | 1387.6 | 756.6 | 753.5 | 658.6 | 582.0 | 542.2 | 529.9 | 517.7 |
| 17049.7 | 65° | 14072.3 | 8586.1 | 1093.6 | 719.8 | 756.6 | 643.3 | 539.1 | 499.3 | 477.9 | 462.5 |
| 15426.2 | 67.5° | 12482.5 | 7330.2 | 866.9 | 692.3 | 726.0 | 615.7 | 502.4 | 456.4 | 438.0 | 422.7 |
| 12424.3 | 70° | 9765.4 | 5746.5 | 753.5 | 655.5 | 652.5 | 548.3 | 459.5 | 419.7 | 392.1 | 373.7 |
| 8258.4 | 72.5° | 6331.6 | 3632.9 | 646.3 | 582.0 | 563.6 | 459.5 | 398.2 | 373.7 | 352.3 | 337.0 |
| 3865.7 | 75° | 2867.1 | 1687.8 | 520.7 | 487.0 | 459.5 | 367.6 | 337.0 | 324.7 | 306.3 | 291.0 |
| 1329.4 | 77.5° | 1029.2 | 719.8 | 389.0 | 382.9 | 343.1 | 284.9 | 272.6 | 263.4 | 251.2 | 235.9 |
| 640.2 | 80° | 575.9 | 456.4 | 291.0 | 278.8 | 238.9 | 211.4 | 196.0 | 196.0 | 189.9 | 180.7 |
| 386.0 | 82.5° | 364.5 | 297.1 | 214.4 | 186.9 | 156.2 | 140.9 | 134.8 | 131.7 | 128.7 | 116.4 |
| 242.0 | 85° | 229.7 | 202.2 | 140.9 | 110.3 | 91.9 | 70.5 | 67.4 | 64.3 | 58.2 | 52.1 |
| 95.0 | 87.5° | 104.1 | 116.4 | 55.1 | 33.7 | 24.5 | 15.3 | 9.2 | 3.1 | 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° |
|--------|
| 7486.4 |
| 6690.0 |
| 5734.3 |
| 4643.8 |
| 3314.4 |
| 2294.3 |
| 1804.2 |
| 1583.7 |
| 1497.9 |
| 1421.3 |
| 1338.6 |
| 1268.2 |
| 1148.7 |
| 1062.9 |
| 977.2 |
| 919.0 |
| 882.2 |
| 848.5 |
| 836.3 |
| 802.6 |
| 771.9 |
| 732.1 |
| 677.0 |
| 634.1 |
| 572.8 |
| 520.7 |
| 459.5 |
| 416.6 |
| 373.7 |
| 337.0 |
| 291.0 |
| 235.9 |
| 177.7 |
| 113.3 |
| 52.1 |
| 0.0 |
| 0.0 |

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