

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: P575466

Luminaire Tested: **EPH-VN-08-750-U-SL4-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575466
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-08-750-U-SL4-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ SL4 distribution lens and House Side Shield
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

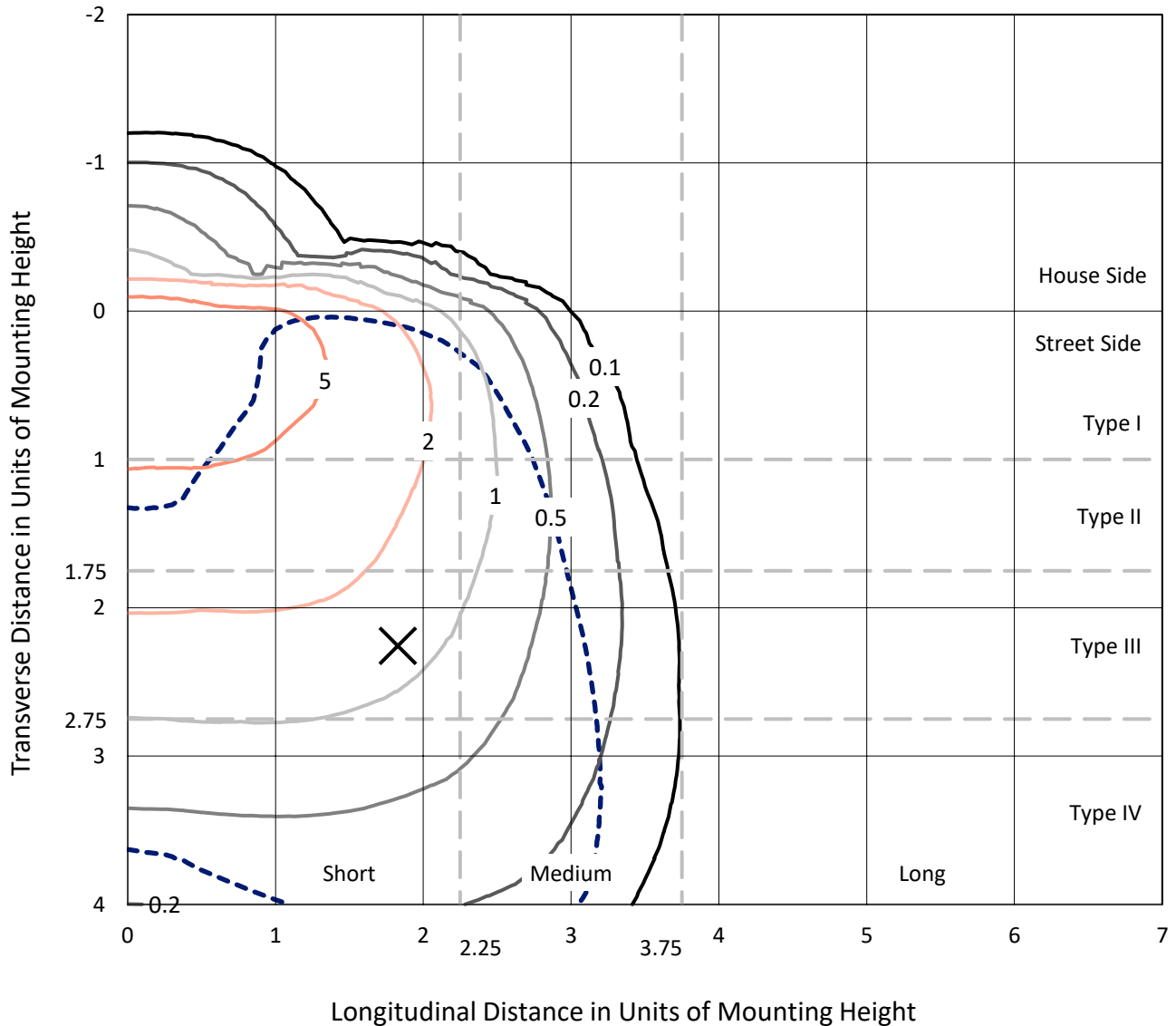
Lumens per Lamp: N/A
Luminaire Lumens: 47108.7 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

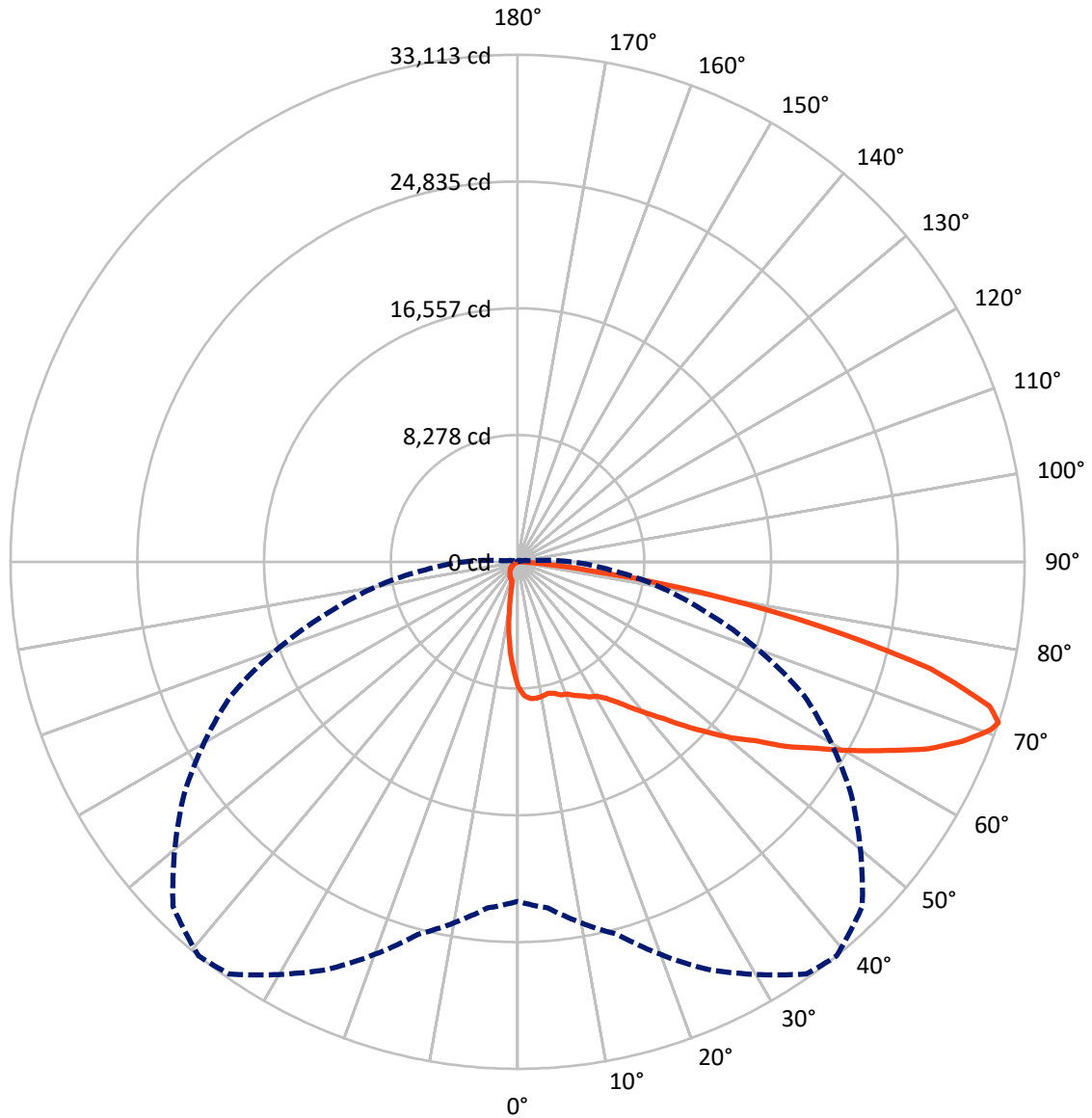
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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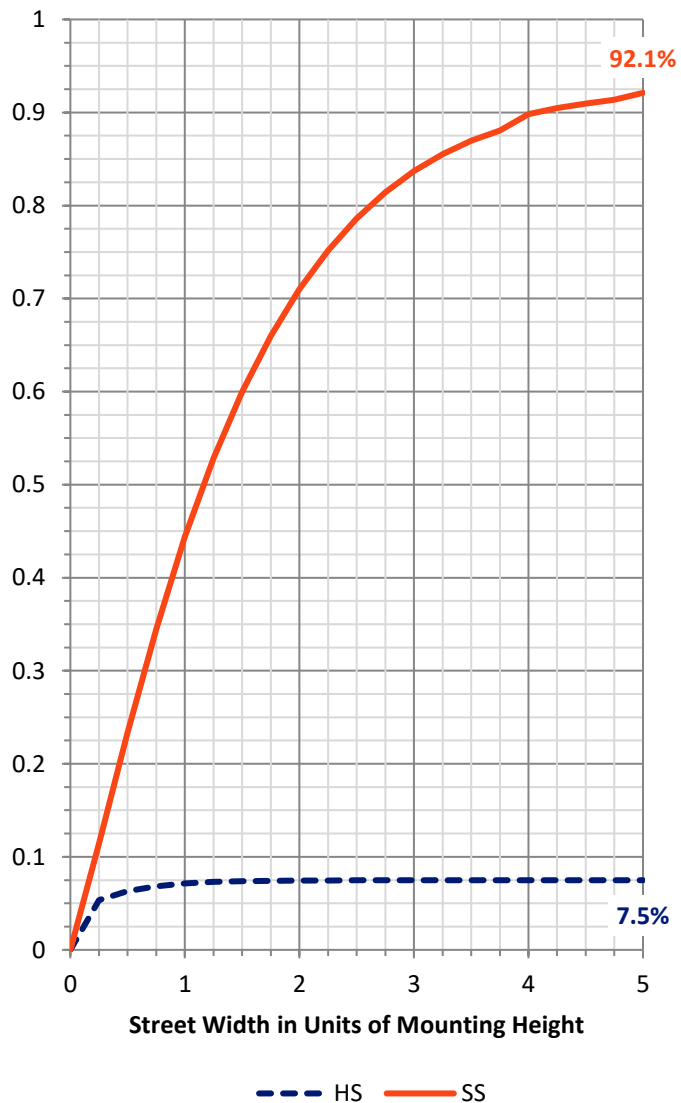
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3546.6 | 0.0 | 3546.6 |
| | % Fixture | 7.5 | 0.0 | 7.5 |
| Street Side | Lumens | 43562.2 | 0.0 | 43562.2 |
| | % Fixture | 92.5 | 0.0 | 92.5 |
| Total | Lumens | 47108.7 | 0.0 | 47108.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 685.6 | 1.5 |
| 10°-20° | 1687.4 | 3.6 |
| 20°-30° | 2708.8 | 5.8 |
| 30°-40° | 4146.5 | 8.8 |
| 40°-50° | 6655.8 | 14.1 |
| 50°-60° | 9776.3 | 20.8 |
| 60°-70° | 12312.9 | 26.1 |
| 70°-80° | 8217.3 | 17.4 |
| 80°-90° | 918.3 | 1.9 |
| 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° | 47108.7 | 100.0 |
| 0°-180° | 47108.7 | 100.0 |

Coefficient of Utilization



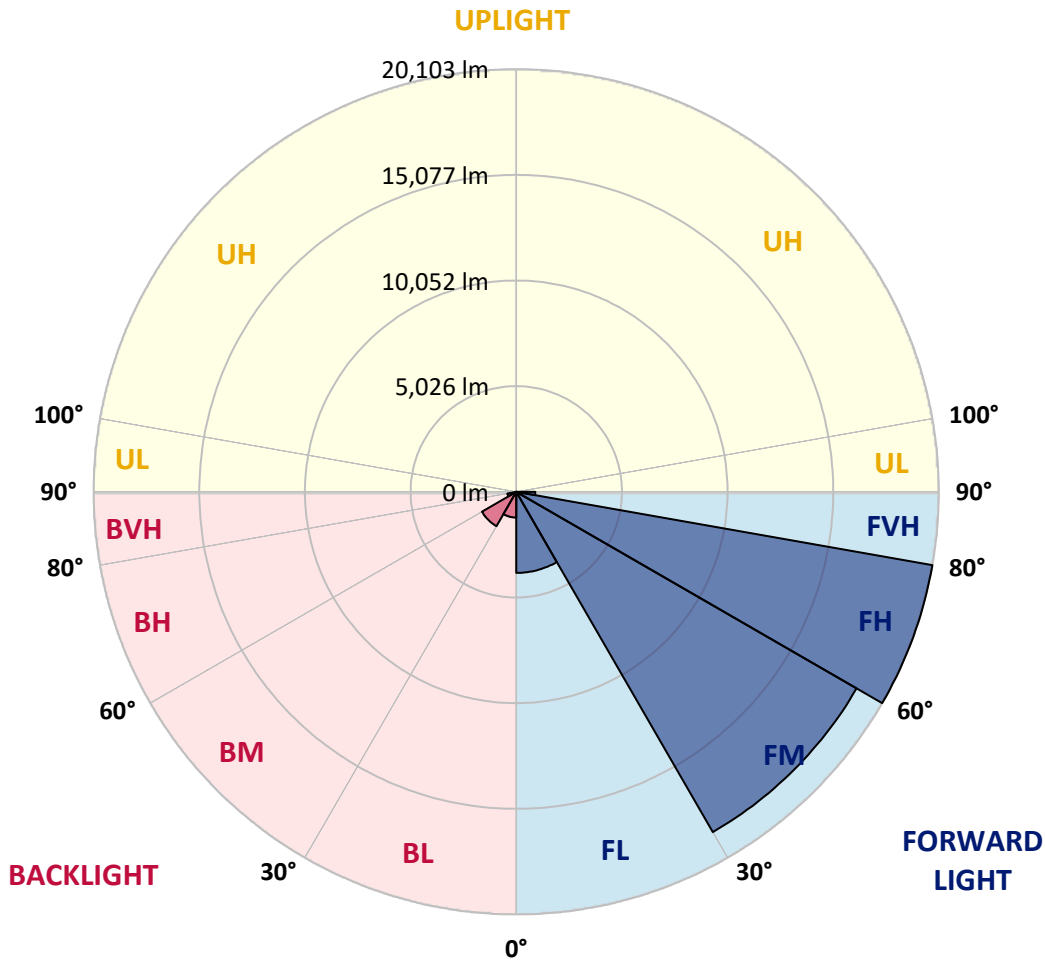
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 3857.2 | 8.2 | | | |
| FM (30°-60°) | 18693.4 | 39.7 | | | |
| FH (60°-80°) | 20103.3 | 42.7 | | | G5 |
| FVH (80°-90°) | 908.2 | 1.9 | | | G5 |
| BL (0°-30°) | 1224.4 | 2.6 | B3/2500 | | |
| BM (30°-60°) | 1885.1 | 4.0 | B2/2500 | | |
| BH (60°-80°) | 426.9 | 0.9 | B1/500 | | G1/500 |
| BVH (80°-90°) | 10.1 | 0.0 | | | G1/100 |
| 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° | 8199.6 | 8199.6 | 8199.6 | 8199.6 | 8199.6 | 8199.6 | 8199.6 | 8199.6 | 8199.6 | 8199.6 |
| 2.5° | 8836.0 | 8922.5 | 8836.0 | 8798.9 | 8761.9 | 8768.0 | 8669.2 | 8687.7 | 8570.3 | 8415.8 |
| 5° | 9114.1 | 9231.5 | 9138.8 | 9095.5 | 9089.4 | 8972.0 | 8922.5 | 8805.1 | 8663.0 | 8422.0 |
| 7.5° | 9089.4 | 9064.6 | 9107.9 | 9070.8 | 8990.5 | 8990.5 | 8934.9 | 8768.0 | 8625.9 | 8354.1 |
| 10° | 8904.0 | 8978.1 | 8941.1 | 8897.8 | 8916.3 | 8922.5 | 8817.5 | 8700.1 | 8656.8 | 8384.9 |
| 12.5° | 8885.5 | 8761.9 | 8897.8 | 8904.0 | 8823.7 | 8817.5 | 8805.1 | 8774.2 | 8638.3 | 8391.1 |
| 15° | 8823.7 | 8774.2 | 8910.2 | 8916.3 | 8934.9 | 8916.3 | 8934.9 | 8910.2 | 8774.2 | 8632.1 |
| 17.5° | 8873.1 | 8817.5 | 9009.0 | 9101.7 | 9058.5 | 9145.0 | 9114.1 | 9002.9 | 8885.5 | 8718.6 |
| 20° | 8885.5 | 8965.8 | 9175.9 | 9212.9 | 9348.9 | 9206.8 | 9200.6 | 9083.2 | 9009.0 | 8829.8 |
| 22.5° | 9114.1 | 9151.1 | 9410.7 | 9491.0 | 9497.2 | 9478.6 | 9324.2 | 9188.2 | 9157.3 | 8934.9 |
| 25° | 9460.1 | 9589.9 | 9707.3 | 9756.7 | 9775.2 | 9688.7 | 9528.1 | 9355.1 | 9280.9 | 9138.8 |
| 27.5° | 10071.8 | 9991.5 | 10096.5 | 10170.7 | 9960.6 | 9991.5 | 9787.6 | 9639.3 | 9534.2 | 9410.7 |
| 30° | 10615.6 | 10541.4 | 10547.6 | 10535.3 | 10356.1 | 10189.2 | 10133.6 | 9874.1 | 9744.3 | 9793.8 |
| 32.5° | 11103.7 | 10943.1 | 11079.0 | 11017.2 | 10683.5 | 10634.1 | 10590.9 | 10263.4 | 10288.1 | 10516.7 |
| 35° | 11554.8 | 11499.2 | 11610.4 | 11499.2 | 11276.7 | 11264.4 | 11221.1 | 10936.9 | 11072.8 | 11400.3 |
| 37.5° | 11968.8 | 11987.3 | 12123.3 | 12067.7 | 12086.2 | 12098.5 | 12073.8 | 11771.1 | 12160.3 | 12895.6 |
| 40° | 12351.9 | 12327.2 | 12660.8 | 12833.9 | 12870.9 | 13006.9 | 13006.9 | 12932.7 | 13532.1 | 14360.1 |
| 42.5° | 12759.7 | 12821.5 | 13254.0 | 13544.4 | 13896.6 | 14014.0 | 14174.7 | 14211.8 | 15138.6 | 16084.0 |
| 45° | 13427.0 | 13322.0 | 13871.9 | 14557.8 | 14866.8 | 15280.8 | 15527.9 | 15738.0 | 16856.4 | 18154.0 |
| 47.5° | 14273.6 | 14063.5 | 14545.4 | 15540.3 | 16257.0 | 16596.9 | 17041.8 | 17319.8 | 18413.5 | 19754.4 |
| 50° | 15212.8 | 14996.5 | 15231.3 | 16603.1 | 17437.2 | 18055.1 | 18623.6 | 18975.8 | 20298.1 | 21546.3 |
| 52.5° | 16275.6 | 16077.8 | 16114.9 | 17709.1 | 18938.7 | 19389.8 | 20137.5 | 20662.7 | 21978.8 | 22627.6 |
| 55° | 17406.3 | 17356.9 | 17239.5 | 18790.4 | 20254.9 | 21268.2 | 21719.3 | 22349.6 | 23702.8 | 23214.6 |
| 57.5° | 18543.3 | 18388.8 | 18555.6 | 20224.0 | 22368.1 | 22973.6 | 23597.7 | 23974.7 | 24660.5 | 23727.5 |
| 60° | 19612.3 | 19624.6 | 19859.4 | 21781.1 | 24166.2 | 25025.1 | 25587.4 | 25358.8 | 25643.0 | 23949.9 |
| 62.5° | 20514.4 | 20489.7 | 21082.9 | 23529.8 | 26545.1 | 27126.0 | 27546.1 | 26526.6 | 26100.2 | 24166.2 |
| 65° | 21323.8 | 21601.9 | 22534.9 | 25612.1 | 28781.9 | 29449.3 | 29195.9 | 27632.6 | 26545.1 | 23529.8 |
| 67.5° | 21935.6 | 22349.6 | 23968.5 | 27570.8 | 30833.4 | 31303.0 | 30950.8 | 28473.0 | 26019.9 | 21033.4 |
| 70° | 22294.0 | 22714.1 | 24994.2 | 29202.1 | 32470.8 | 32810.7 | 31982.7 | 27824.2 | 22955.1 | 15231.3 |
| 71° | 22182.7 | 22695.6 | 25191.9 | 29375.1 | 32860.1 | 33113.4 | 31828.2 | 26625.5 | 20644.2 | 12753.5 |
| 72.5° | 21175.5 | 21657.5 | 24370.1 | 29251.5 | 32390.5 | 32236.0 | 30623.3 | 23746.0 | 16250.9 | 8131.6 |
| 75° | 15558.8 | 16077.8 | 20916.0 | 25303.1 | 28911.7 | 27848.9 | 24784.1 | 16664.9 | 8477.6 | 2490.2 |
| 77.5° | 7748.5 | 7835.0 | 12982.2 | 18370.3 | 21206.4 | 20149.8 | 16609.2 | 9293.3 | 3169.8 | 735.3 |
| 80° | 3571.5 | 3596.2 | 4869.1 | 9515.7 | 12821.5 | 12067.7 | 9305.6 | 4584.8 | 1433.5 | 389.3 |
| 82.5° | 2434.5 | 2471.6 | 2935.0 | 3942.2 | 5567.3 | 4696.1 | 3769.2 | 2935.0 | 821.8 | 234.8 |
| 85° | 444.9 | 407.8 | 1643.6 | 2088.5 | 2150.3 | 1458.3 | 1303.8 | 2539.6 | 309.0 | 135.9 |
| 87.5° | 0.0 | 6.2 | 228.6 | 852.7 | 766.2 | 339.8 | 444.9 | 617.9 | 30.9 | 43.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P575466

CATALOG NUMBER: EPH-VN-08-750-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

| 85° | | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° |
|---------|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 8199.6 | 0° | 8199.6 | 8199.6 | 8199.6 | 8199.6 | 8199.6 | 8199.6 | 8199.6 | 8199.6 | 8199.6 | 8199.6 |
| 8292.3 | 2.5° | 8187.2 | 8119.3 | 7890.6 | 7637.3 | 7408.7 | 7229.5 | 7000.8 | 6895.8 | 6729.0 | 6636.3 |
| 8273.7 | 5° | 8069.8 | 7884.4 | 7489.0 | 7062.6 | 6586.9 | 6191.4 | 5752.7 | 5505.5 | 5221.3 | 5134.8 |
| 8100.7 | 7.5° | 7872.1 | 7606.4 | 7025.6 | 6426.2 | 5697.1 | 4998.8 | 4461.3 | 3886.6 | 3534.4 | 3386.1 |
| 7971.0 | 10° | 7748.5 | 7427.2 | 6636.3 | 5740.3 | 4720.8 | 3738.3 | 2984.5 | 2372.7 | 2051.4 | 1897.0 |
| 8001.8 | 12.5° | 7748.5 | 7402.5 | 6321.2 | 5085.3 | 3732.1 | 2558.1 | 1847.5 | 1495.3 | 1390.3 | 1353.2 |
| 8137.8 | 15° | 7730.0 | 7353.1 | 6018.4 | 4411.8 | 2762.0 | 1717.8 | 1377.9 | 1303.8 | 1291.4 | 1285.2 |
| 8267.5 | 17.5° | 7822.7 | 7266.5 | 5709.4 | 3688.9 | 1952.6 | 1353.2 | 1266.7 | 1254.3 | 1242.0 | 1242.0 |
| 8347.9 | 20° | 7890.6 | 7217.1 | 5338.7 | 2922.7 | 1458.3 | 1254.3 | 1217.3 | 1198.7 | 1192.6 | 1186.4 |
| 8366.4 | 22.5° | 7835.0 | 7143.0 | 4881.4 | 2187.4 | 1272.9 | 1192.6 | 1167.8 | 1149.3 | 1136.9 | 1136.9 |
| 8558.0 | 25° | 7940.1 | 7075.0 | 4424.2 | 1649.8 | 1192.6 | 1136.9 | 1112.2 | 1099.9 | 1093.7 | 1087.5 |
| 8780.4 | 27.5° | 8082.2 | 7105.9 | 3880.4 | 1328.5 | 1124.6 | 1081.3 | 1056.6 | 1044.3 | 1038.1 | 1025.7 |
| 9126.4 | 30° | 8255.2 | 7099.7 | 3281.1 | 1161.7 | 1062.8 | 1019.5 | 994.8 | 988.6 | 976.3 | 970.1 |
| 9645.5 | 32.5° | 8551.8 | 7260.4 | 2663.2 | 1075.2 | 994.8 | 957.8 | 933.0 | 926.9 | 920.7 | 914.5 |
| 10535.3 | 35° | 9188.2 | 7458.1 | 2082.3 | 1007.2 | 933.0 | 889.8 | 871.2 | 858.9 | 852.7 | 846.5 |
| 11573.3 | 37.5° | 9973.0 | 7896.8 | 1588.0 | 945.4 | 871.2 | 828.0 | 809.5 | 803.3 | 778.6 | 772.4 |
| 13013.0 | 40° | 10955.4 | 8366.4 | 1223.4 | 877.4 | 815.6 | 772.4 | 753.8 | 735.3 | 704.4 | 692.1 |
| 14483.7 | 42.5° | 12178.9 | 8823.7 | 1007.2 | 815.6 | 753.8 | 722.9 | 692.1 | 661.2 | 636.4 | 611.7 |
| 15954.3 | 45° | 13402.3 | 9355.1 | 883.6 | 760.0 | 704.4 | 667.3 | 642.6 | 599.4 | 556.1 | 519.0 |
| 17344.5 | 47.5° | 14421.9 | 9546.6 | 809.5 | 698.2 | 655.0 | 624.1 | 587.0 | 531.4 | 469.6 | 432.5 |
| 18357.9 | 50° | 15181.9 | 9435.4 | 735.3 | 636.4 | 599.4 | 568.5 | 519.0 | 451.1 | 389.3 | 352.2 |
| 18716.3 | 52.5° | 15330.2 | 8947.2 | 667.3 | 587.0 | 543.8 | 506.7 | 451.1 | 376.9 | 309.0 | 271.9 |
| 19105.6 | 55° | 15225.1 | 8137.8 | 611.7 | 543.8 | 494.3 | 438.7 | 376.9 | 302.8 | 241.0 | 203.9 |
| 18957.3 | 57.5° | 15008.9 | 7180.0 | 549.9 | 488.1 | 432.5 | 376.9 | 309.0 | 247.2 | 179.2 | 142.1 |
| 18617.4 | 60° | 14273.6 | 5876.3 | 488.1 | 426.4 | 370.7 | 321.3 | 253.3 | 179.2 | 123.6 | 92.7 |
| 18024.2 | 62.5° | 13247.8 | 4516.9 | 426.4 | 364.6 | 321.3 | 265.7 | 197.7 | 129.8 | 74.1 | 49.4 |
| 16355.9 | 65° | 11375.6 | 3163.7 | 358.4 | 302.8 | 265.7 | 216.3 | 148.3 | 80.3 | 43.3 | 18.5 |
| 13322.0 | 67.5° | 8644.5 | 1958.8 | 296.6 | 253.3 | 228.6 | 173.0 | 105.0 | 49.4 | 18.5 | 6.2 |
| 8310.8 | 70° | 4961.8 | 1019.5 | 234.8 | 203.9 | 179.2 | 129.8 | 74.1 | 24.7 | 12.4 | 0.0 |
| 6061.6 | 71° | 3466.4 | 753.8 | 210.1 | 179.2 | 160.7 | 117.4 | 61.8 | 18.5 | 6.2 | 0.0 |
| 3132.8 | 72.5° | 1736.3 | 500.5 | 179.2 | 148.3 | 129.8 | 92.7 | 49.4 | 18.5 | 6.2 | 0.0 |
| 914.5 | 75° | 617.9 | 321.3 | 123.6 | 98.9 | 92.7 | 68.0 | 30.9 | 12.4 | 6.2 | 0.0 |
| 457.2 | 77.5° | 426.4 | 259.5 | 86.5 | 61.8 | 61.8 | 43.3 | 18.5 | 6.2 | 6.2 | 0.0 |
| 358.4 | 80° | 389.3 | 142.1 | 55.6 | 37.1 | 30.9 | 24.7 | 12.4 | 6.2 | 0.0 | 0.0 |
| 352.2 | 82.5° | 389.3 | 105.0 | 30.9 | 24.7 | 18.5 | 12.4 | 6.2 | 0.0 | 0.0 | 0.0 |
| 309.0 | 85° | 271.9 | 55.6 | 18.5 | 18.5 | 12.4 | 6.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 55.6 | 87.5° | 43.3 | 18.5 | 12.4 | 6.2 | 6.2 | 0.0 | 0.0 | 0.0 | 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 |

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