

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: LUMARK

Report Number: P1197244

Luminaire Tested: AWPS150S-BZ-BZ-HIGH-4000K-POSITION 45

Issue Date: 10/29/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1197244  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (LDS)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/30/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: LUMARK  
Catalog Number: AWPS150S-BZ-BZ-HIGH-4000K-POSITION 45  
Description: AWP Architectural  
Light Source: 80 CRI, 4000K  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 18720 (1 lamp)  
Luminaire Lumens: 20507.3 lumens  
Efficiency: 109.5%  
Efficacy: 141.4 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.4' x L: 0.56' x H: 0.69')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U5 - G5

Input Watts (W): 145  
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: 28.75 FT

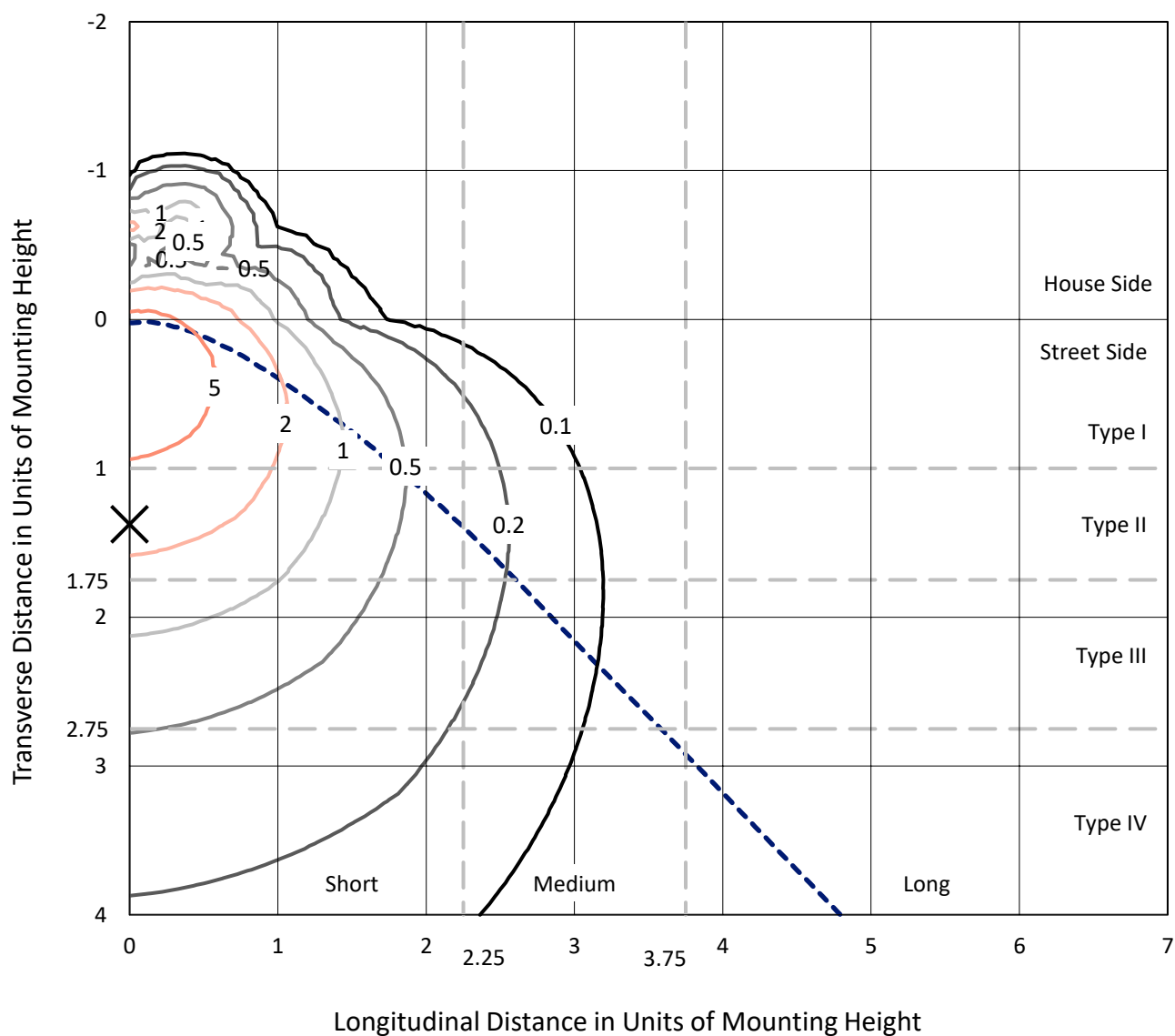
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

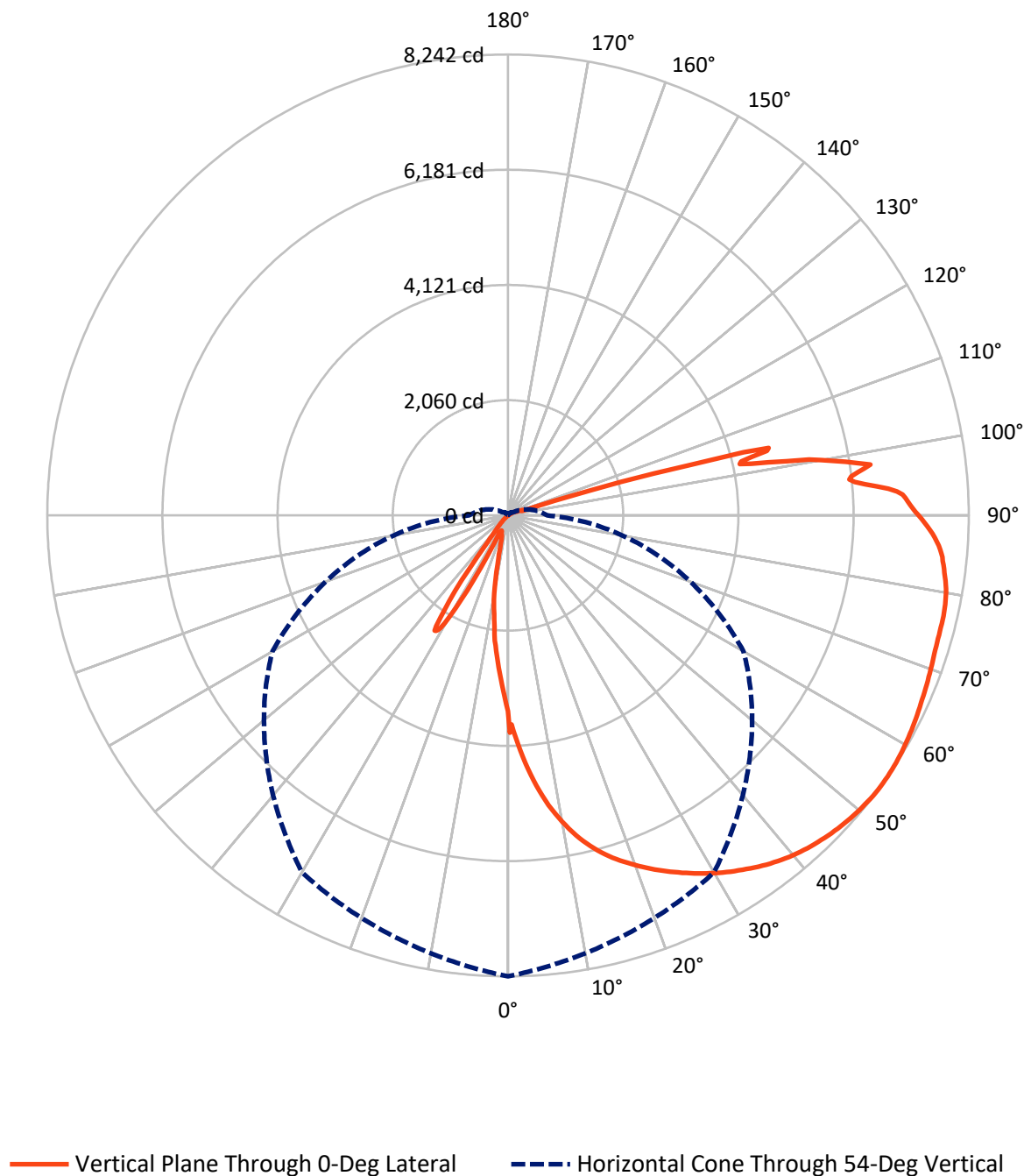


Based on 25 foot mounting height. Maximum calculated value = 9 fc  
Type IV - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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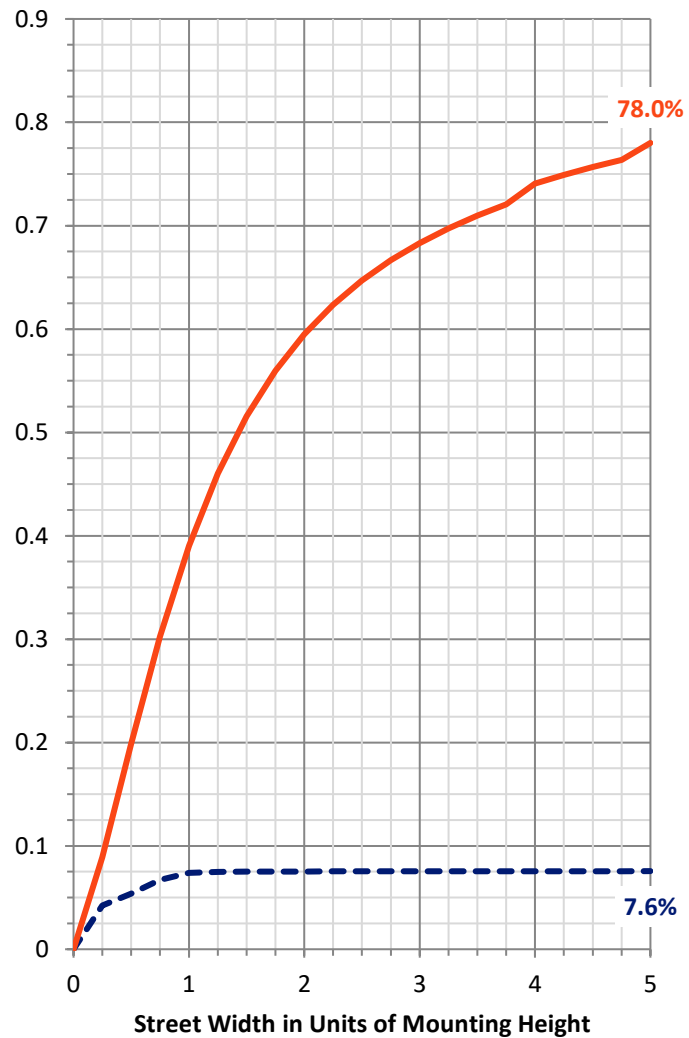
**FLUX DISTRIBUTION:**

|                    |        | Downward | Upward | Total   |
|--------------------|--------|----------|--------|---------|
| <b>House Side</b>  | Lumens | 1425.6   | 51.8   | 1477.4  |
|                    | % Lamp | 7.6      | 0.3    | 7.9     |
| <b>Street Side</b> | Lumens | 16377.6  | 2652.3 | 19029.9 |
|                    | % Lamp | 87.5     | 14.2   | 101.7   |
| <b>Total</b>       | Lumens | 17803.2  | 2704.1 | 20507.3 |
|                    | % Lamp | 95.1     | 14.4   | 109.5   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture | % Lamp |
|-----------|---------|-----------|--------|
| 0°-10°    | 366.4   | 1.8       | 2.0    |
| 10°-20°   | 1018.7  | 5.0       | 5.4    |
| 20°-30°   | 1582.2  | 7.7       | 8.5    |
| 30°-40°   | 2202.0  | 10.7      | 11.8   |
| 40°-50°   | 2534.9  | 12.4      | 13.5   |
| 50°-60°   | 2564.3  | 12.5      | 13.7   |
| 60°-70°   | 2624.6  | 12.8      | 14.0   |
| 70°-80°   | 2560.2  | 12.5      | 13.7   |
| 80°-90°   | 2349.9  | 11.5      | 12.6   |
| 90°-100°  | 1960.7  | 9.6       | 10.5   |
| 100°-110° | 667.6   | 3.3       | 3.6    |
| 110°-120° | 39.3    | 0.2       | 0.2    |
| 120°-130° | 10.2    | 0.0       | 0.1    |
| 130°-140° | 8.5     | 0.0       | 0.0    |
| 140°-150° | 7.3     | 0.0       | 0.0    |
| 150°-160° | 5.7     | 0.0       | 0.0    |
| 160°-170° | 3.6     | 0.0       | 0.0    |
| 170°-180° | 1.3     | 0.0       | 0.0    |
| 0°-90°    | 17803.2 | 86.8      | 95.1   |
| 0°-180°   | 20507.3 | 100.0     | 109.5  |

**Coefficient of Utilization**



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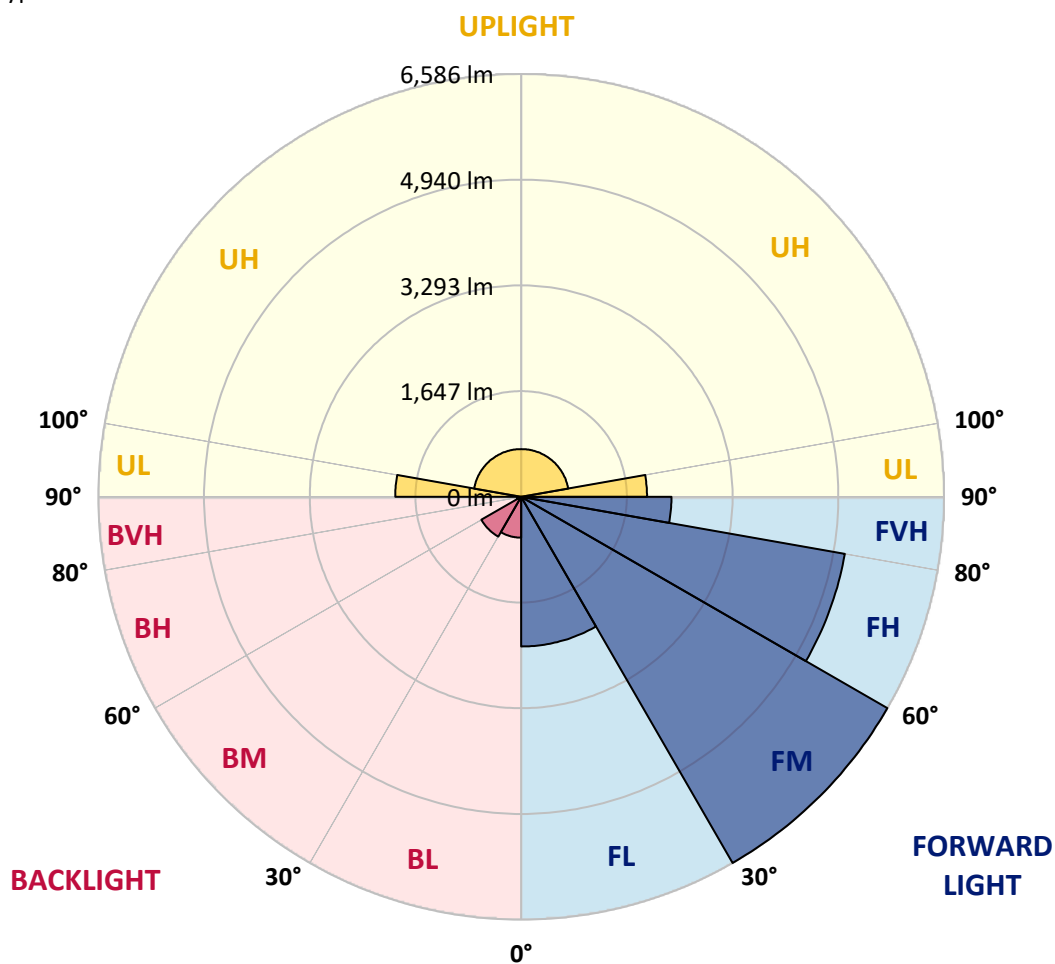
CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-4000K-POSITION 45

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

| Zone          |             | Lumens  | % Lamp | Zone Rating/Lumen Limit |         |         |
|---------------|-------------|---------|--------|-------------------------|---------|---------|
|               |             |         |        | B                       | U       | G       |
| FL            | (0°-30°)    | 2331.3  | 12.5   |                         |         |         |
| FM            | (30°-60°)   | 6586.2  | 35.2   |                         |         |         |
| FH            | (60°-80°)   | 5119.3  | 27.3   |                         |         | G3/7500 |
| FVH           | (80°-90°)   | 2340.8  | 12.5   |                         |         | G5      |
| BL            | (0°-30°)    | 636.1   | 3.4    | B2/1000                 |         |         |
| BM            | (30°-60°)   | 714.9   | 3.8    | B1/1000                 |         |         |
| BH            | (60°-80°)   | 65.5    | 0.3    | B0/110                  |         | G0/110  |
| BVH           | (80°-90°)   | 9.1     | 0.0    |                         |         | G0/10   |
| UL            | (90°-100°)  | 1960.7  | 10.5   |                         | U5      |         |
| UH            | (100°-180°) | 743.4   | 4.0    |                         | U4/1000 |         |
| Trapped Light |             | -1787.3 | -9.5   |                         |         |         |

**BUG Rating: B2-U5-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 30°    | 60°    | 90°    | 120°   | 150°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3885.0 | 3885.0 | 3885.0 | 3885.0 | 3885.0 | 3885.0 | 3885.0 |
| 0.5°  | 3738.3 | 3893.4 | 4012.4 | 4037.4 | 3958.6 | 3798.2 | 3497.4 |
| 1°    | 3858.4 | 3996.9 | 4069.9 | 4036.7 | 3900.2 | 3692.1 | 3380.2 |
| 1.5°  | 3978.3 | 4096.4 | 4126.7 | 4033.6 | 3841.3 | 3585.3 | 3262.8 |
| 2°    | 4093.1 | 4194.0 | 4183.7 | 4032.1 | 3777.7 | 3487.9 | 3146.4 |
| 2.5°  | 4207.0 | 4293.1 | 4240.0 | 4030.7 | 3716.3 | 3382.5 | 3035.1 |
| 3°    | 4322.4 | 4388.2 | 4292.0 | 4026.7 | 3653.7 | 3279.5 | 2929.8 |
| 3.5°  | 4435.4 | 4482.0 | 4343.8 | 4020.5 | 3589.6 | 3179.1 | 2829.3 |
| 4°    | 4539.7 | 4578.4 | 4397.9 | 4015.7 | 3525.9 | 3084.8 | 2728.9 |
| 4.5°  | 4649.9 | 4669.4 | 4448.3 | 4010.4 | 3463.0 | 2987.1 | 2628.6 |
| 5°    | 4751.4 | 4755.6 | 4495.4 | 4003.4 | 3398.2 | 2880.3 | 2528.3 |
| 5.5°  | 4856.1 | 4842.6 | 4545.4 | 3996.3 | 3335.6 | 2794.3 | 2428.0 |
| 6°    | 4955.8 | 4927.6 | 4592.9 | 3988.0 | 3270.6 | 2708.6 | 2336.1 |
| 6.5°  | 5049.7 | 5006.5 | 4639.7 | 3977.9 | 3207.8 | 2622.9 | 2252.4 |
| 7°    | 5140.6 | 5087.5 | 4685.0 | 3969.0 | 3142.9 | 2536.9 | 2140.1 |
| 7.5°  | 5231.9 | 5162.4 | 4730.2 | 3959.4 | 3080.6 | 2451.4 | 2001.2 |
| 8°    | 5318.7 | 5235.0 | 4770.8 | 3948.0 | 3016.8 | 2369.7 | 1880.8 |
| 8.5°  | 5400.4 | 5306.3 | 4812.6 | 3936.1 | 2954.7 | 2292.3 | 1775.6 |
| 9°    | 5480.6 | 5375.4 | 4851.7 | 3924.2 | 2891.6 | 2216.9 | 1685.9 |
| 9.5°  | 5556.3 | 5442.4 | 4891.4 | 3910.9 | 2826.3 | 2142.2 | 1603.7 |
| 10°   | 5628.8 | 5507.1 | 4927.5 | 3897.5 | 2763.6 | 2042.2 | 1517.2 |
| 10.5° | 5705.9 | 5568.7 | 4964.9 | 3882.8 | 2700.4 | 1924.1 | 1419.4 |
| 11°   | 5777.1 | 5629.6 | 5000.4 | 3867.5 | 2636.6 | 1817.4 | 1302.6 |
| 11.5° | 5845.7 | 5689.6 | 5034.0 | 3852.2 | 2576.6 | 1724.2 | 1164.5 |
| 12°   | 5910.9 | 5747.6 | 5065.8 | 3835.6 | 2516.6 | 1644.8 | 1027.1 |
| 12.5° | 5973.9 | 5800.5 | 5098.3 | 3818.0 | 2455.9 | 1569.3 | 901.9  |
| 13°   | 6032.7 | 5854.2 | 5129.5 | 3798.8 | 2396.7 | 1492.5 | 796.7  |
| 13.5° | 6091.3 | 5904.4 | 5158.6 | 3779.7 | 2341.3 | 1410.8 | 707.9  |
| 14°   | 6148.0 | 5953.2 | 5186.0 | 3759.2 | 2282.9 | 1314.8 | 636.2  |
| 14.5° | 6201.4 | 6000.4 | 5213.0 | 3738.3 | 2226.1 | 1200.7 | 572.9  |
| 15°   | 6252.5 | 6044.8 | 5238.5 | 3716.7 | 2171.2 | 1080.4 | 520.4  |
| 15.5° | 6304.9 | 6088.6 | 5264.4 | 3693.7 | 2115.6 | 961.2  | 476.0  |
| 16°   | 6353.9 | 6131.5 | 5287.8 | 3670.8 | 2061.5 | 851.8  | 441.9  |
| 16.5° | 6398.1 | 6171.4 | 5311.5 | 3649.3 | 2008.7 | 754.9  | 414.8  |
| 17°   | 6445.0 | 6210.2 | 5332.9 | 3625.2 | 1957.5 | 676.3  | 395.6  |
| 17.5° | 6489.9 | 6247.3 | 5353.2 | 3600.6 | 1899.1 | 612.1  | 381.5  |
| 18°   | 6528.7 | 6282.6 | 5372.7 | 3577.1 | 1824.5 | 554.5  | 371.7  |
| 18.5° | 6570.6 | 6316.2 | 5390.2 | 3551.4 | 1746.7 | 507.1  | 365.8  |
| 19°   | 6612.8 | 6344.3 | 5407.2 | 3522.1 | 1675.3 | 467.3  | 362.5  |
| 19.5° | 6654.3 | 6372.2 | 5423.5 | 3494.5 | 1608.6 | 433.4  | 359.7  |
| 20°   | 6693.3 | 6400.2 | 5439.1 | 3466.6 | 1543.6 | 406.9  | 353.9  |
| 20.5° | 6734.4 | 6428.0 | 5452.8 | 3439.5 | 1485.4 | 386.2  | 342.6  |
| 21°   | 6773.8 | 6455.8 | 5466.3 | 3410.8 | 1431.1 | 372.1  | 327.4  |
| 21.5° | 6812.5 | 6484.1 | 5479.0 | 3382.8 | 1376.6 | 362.5  | 313.1  |
| 22°   | 6851.8 | 6507.9 | 5490.7 | 3353.1 | 1318.4 | 357.6  | 307.7  |

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**CANDELA DISTRIBUTION (continued):**

|       | 0°     | 30°    | 60°    | 90°    | 120°   | 150°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|
| 22.5° | 6889.8 | 6536.0 | 5501.5 | 3322.1 | 1258.0 | 356.6  | 302.4  |
| 23°   | 6928.3 | 6563.3 | 5512.0 | 3293.0 | 1192.5 | 359.4  | 297.2  |
| 23.5° | 6966.1 | 6589.0 | 5520.7 | 3261.2 | 1121.0 | 364.3  | 292.1  |
| 24°   | 7002.4 | 6615.8 | 5528.9 | 3229.6 | 1047.2 | 371.3  | 302.0  |
| 24.5° | 7036.8 | 6641.7 | 5535.3 | 3197.3 | 966.4  | 380.1  | 315.3  |
| 25°   | 7073.0 | 6667.2 | 5541.6 | 3165.0 | 887.9  | 390.5  | 328.4  |
| 25.5° | 7108.5 | 6693.6 | 5546.9 | 3131.2 | 816.2  | 398.2  | 335.6  |
| 26°   | 7143.5 | 6721.1 | 5551.9 | 3097.9 | 752.6  | 400.0  | 336.8  |
| 26.5° | 7179.1 | 6743.7 | 5555.6 | 3064.1 | 698.7  | 397.8  | 357.8  |
| 27°   | 7216.0 | 6767.5 | 5558.3 | 3027.4 | 659.4  | 394.1  | 587.8  |
| 27.5° | 7249.8 | 6790.9 | 5559.1 | 2993.7 | 633.3  | 383.8  | 822.2  |
| 28°   | 7285.0 | 6814.1 | 5560.9 | 2958.5 | 615.8  | 371.0  | 1056.6 |
| 28.5° | 7318.3 | 6838.5 | 5561.7 | 2917.9 | 598.5  | 361.6  | 1291.0 |
| 29°   | 7351.3 | 6860.6 | 5560.6 | 2883.1 | 581.1  | 354.7  | 1525.5 |
| 29.5° | 7383.6 | 6884.3 | 5559.5 | 2849.2 | 563.9  | 350.4  | 1705.0 |
| 30°   | 7416.4 | 6906.4 | 5556.6 | 2810.5 | 546.9  | 348.4  | 1900.3 |
| 30.5° | 7450.5 | 6929.3 | 5553.7 | 2770.1 | 535.6  | 348.8  | 2090.4 |
| 31°   | 7480.5 | 6949.4 | 5549.5 | 2734.5 | 527.3  | 346.1  | 2236.9 |
| 31.5° | 7510.9 | 6971.2 | 5545.6 | 2697.8 | 520.1  | 343.1  | 2347.7 |
| 32°   | 7540.1 | 6991.1 | 5540.2 | 2657.2 | 506.4  | 339.2  | 2403.7 |
| 32.5° | 7569.7 | 7008.8 | 5534.4 | 2621.5 | 487.6  | 334.9  | 2436.1 |
| 33°   | 7599.9 | 7029.2 | 5528.4 | 2584.3 | 469.1  | 330.2  | 2441.6 |
| 33.5° | 7627.8 | 7049.4 | 5522.5 | 2544.7 | 456.3  | 334.8  | 2358.8 |
| 34°   | 7656.2 | 7068.4 | 5514.9 | 2506.9 | 446.9  | 346.0  | 2180.8 |
| 34.5° | 7685.9 | 7087.7 | 5506.8 | 2472.3 | 439.3  | 370.7  | 2023.0 |
| 35°   | 7713.7 | 7106.3 | 5498.9 | 2436.4 | 435.6  | 574.8  | 1855.0 |
| 35.5° | 7741.3 | 7124.1 | 5491.0 | 2401.0 | 432.3  | 786.5  | 1651.7 |
| 36°   | 7768.0 | 7140.3 | 5482.5 | 2370.9 | 429.5  | 997.8  | 1422.1 |
| 36.5° | 7793.1 | 7158.7 | 5473.7 | 2342.3 | 426.8  | 1208.9 | 1180.2 |
| 37°   | 7818.0 | 7176.6 | 5464.4 | 2313.9 | 424.2  | 1419.8 | 926.2  |
| 37.5° | 7842.7 | 7192.0 | 5455.0 | 2286.8 | 420.8  | 1588.3 | 729.8  |
| 38°   | 7866.2 | 7208.2 | 5444.5 | 2259.7 | 416.1  | 1703.6 | 597.2  |
| 38.5° | 7888.6 | 7225.8 | 5433.6 | 2225.5 | 411.5  | 1772.1 | 510.7  |
| 39°   | 7910.5 | 7239.0 | 5422.0 | 2183.7 | 406.6  | 1803.6 | 446.1  |
| 39.5° | 7931.6 | 7252.0 | 5409.6 | 2132.2 | 401.8  | 1817.7 | 392.3  |
| 40°   | 7952.0 | 7267.1 | 5395.8 | 2075.6 | 397.4  | 1836.2 | 349.1  |
| 40.5° | 7969.9 | 7279.5 | 5382.7 | 2019.4 | 392.6  | 1825.5 | 322.8  |
| 41°   | 7988.2 | 7291.8 | 5368.7 | 1967.2 | 386.9  | 1765.7 | 297.1  |
| 41.5° | 8006.6 | 7304.6 | 5354.0 | 1914.0 | 380.0  | 1655.9 | 271.5  |
| 42°   | 8021.0 | 7315.5 | 5340.2 | 1864.1 | 372.6  | 1550.3 | 246.0  |
| 42.5° | 8037.8 | 7326.6 | 5326.5 | 1817.3 | 364.7  | 1443.4 | 220.5  |
| 43°   | 8052.6 | 7336.6 | 5312.0 | 1773.0 | 356.5  | 1345.0 | 200.9  |
| 43.5° | 8066.2 | 7345.0 | 5296.8 | 1728.8 | 348.2  | 1251.4 | 179.7  |
| 44°   | 8081.6 | 7353.2 | 5282.7 | 1684.4 | 339.7  | 1165.4 | 157.7  |
| 44.5° | 8094.9 | 7360.6 | 5265.8 | 1642.5 | 330.8  | 1083.3 | 138.7  |

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**CANDELA DISTRIBUTION (continued):**

|       | 0°     | 30°    | 60°    | 90°    | 120°  | 150°   | 180°  |
|-------|--------|--------|--------|--------|-------|--------|-------|
| 45°   | 8108.4 | 7368.0 | 5249.7 | 1601.9 | 322.1 | 1000.5 | 119.4 |
| 45.5° | 8119.1 | 7373.9 | 5233.1 | 1564.2 | 313.5 | 908.5  | 99.0  |
| 46°   | 8132.0 | 7378.5 | 5216.2 | 1528.2 | 304.5 | 813.4  | 78.1  |
| 46.5° | 8143.7 | 7383.9 | 5197.3 | 1492.8 | 295.3 | 722.9  | 60.6  |
| 47°   | 8154.1 | 7386.6 | 5178.2 | 1456.8 | 286.7 | 644.3  | 47.0  |
| 47.5° | 8164.6 | 7389.2 | 5158.9 | 1421.6 | 278.2 | 575.8  | 38.6  |
| 48°   | 8174.6 | 7392.6 | 5138.6 | 1385.5 | 269.9 | 514.2  | 35.1  |
| 48.5° | 8183.5 | 7393.4 | 5118.1 | 1347.6 | 254.6 | 457.3  | 32.4  |
| 49°   | 8191.8 | 7394.9 | 5097.1 | 1305.2 | 235.6 | 404.3  | 29.6  |
| 49.5° | 8200.4 | 7395.5 | 5076.0 | 1259.0 | 222.3 | 356.0  | 26.7  |
| 50°   | 8208.0 | 7394.3 | 5054.9 | 1210.0 | 211.5 | 307.0  | 23.8  |
| 50.5° | 8215.1 | 7393.9 | 5032.1 | 1153.1 | 198.6 | 257.4  | 21.1  |
| 51°   | 8221.6 | 7394.4 | 5008.9 | 1092.1 | 189.1 | 207.8  | 18.9  |
| 51.5° | 8227.6 | 7391.4 | 4985.8 | 1024.9 | 181.0 | 158.2  | 16.3  |
| 52°   | 8232.2 | 7387.1 | 4962.2 | 953.5  | 169.8 | 108.6  | 13.6  |
| 52.5° | 8235.1 | 7384.7 | 4938.0 | 884.2  | 150.2 | 69.0   | 12.2  |
| 53°   | 8238.7 | 7379.5 | 4914.4 | 816.2  | 133.5 | 28.9   | 11.1  |
| 53.5° | 8239.7 | 7374.5 | 4890.0 | 752.0  | 123.0 | 21.2   | 10.1  |
| 54°   | 8241.5 | 7369.1 | 4864.4 | 699.2  | 116.8 | 20.1   | 9.3   |
| 54.5° | 8240.4 | 7363.1 | 4839.3 | 657.5  | 112.3 | 19.8   | 8.6   |
| 55°   | 8240.2 | 7354.8 | 4813.7 | 622.4  | 108.3 | 19.3   | 8.2   |
| 55.5° | 8239.2 | 7347.5 | 4786.2 | 593.0  | 105.1 | 18.8   | 8.0   |
| 56°   | 8237.0 | 7339.3 | 4758.7 | 569.7  | 101.7 | 18.3   | 7.8   |
| 56.5° | 8233.1 | 7330.2 | 4730.4 | 550.5  | 98.3  | 17.6   | 7.6   |
| 57°   | 8230.6 | 7322.4 | 4700.7 | 536.1  | 93.7  | 16.7   | 7.5   |
| 57.5° | 8224.8 | 7313.3 | 4671.3 | 524.8  | 89.7  | 15.1   | 7.4   |
| 58°   | 8220.0 | 7303.0 | 4642.0 | 517.0  | 85.8  | 14.1   | 7.2   |
| 58.5° | 8215.2 | 7295.4 | 4612.5 | 511.4  | 82.0  | 13.2   | 7.1   |
| 59°   | 8209.8 | 7285.6 | 4583.0 | 507.5  | 77.5  | 12.5   | 7.1   |
| 59.5° | 8203.1 | 7274.4 | 4553.5 | 504.5  | 72.1  | 11.7   | 7.0   |
| 60°   | 8197.0 | 7266.0 | 4524.1 | 500.8  | 66.5  | 11.1   | 7.0   |
| 60.5° | 8190.0 | 7256.7 | 4491.9 | 496.3  | 62.6  | 10.5   | 7.0   |
| 61°   | 8182.1 | 7244.7 | 4460.1 | 492.4  | 59.4  | 10.0   | 7.2   |
| 61.5° | 8174.3 | 7233.6 | 4428.7 | 488.4  | 56.4  | 9.5    | 7.3   |
| 62°   | 8165.7 | 7223.4 | 4394.5 | 484.0  | 53.4  | 9.0    | 7.4   |
| 62.5° | 8158.4 | 7211.3 | 4359.5 | 479.8  | 50.0  | 8.5    | 7.6   |
| 63°   | 8149.9 | 7199.1 | 4328.4 | 473.8  | 46.2  | 8.1    | 7.8   |
| 63.5° | 8141.6 | 7187.8 | 4294.4 | 466.3  | 41.8  | 7.8    | 8.0   |
| 64°   | 8133.6 | 7173.1 | 4261.4 | 458.0  | 37.0  | 7.5    | 8.2   |
| 64.5° | 8124.8 | 7160.4 | 4230.0 | 448.4  | 32.1  | 7.1    | 8.4   |
| 65°   | 8115.2 | 7145.9 | 4200.1 | 437.9  | 27.0  | 6.9    | 8.6   |
| 65.5° | 8108.1 | 7130.6 | 4169.8 | 427.4  | 22.4  | 6.6    | 8.8   |
| 66°   | 8099.2 | 7115.7 | 4140.3 | 418.2  | 18.0  | 6.5    | 9.0   |
| 66.5° | 8093.1 | 7100.1 | 4111.3 | 408.1  | 13.8  | 6.3    | 9.2   |
| 67°   | 8084.9 | 7081.8 | 4081.7 | 398.0  | 10.4  | 6.3    | 9.4   |

REPORT NUMBER: P1197244

CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-4000K-POSITION 45

**CANDELA DISTRIBUTION (continued):**

|       | 0°     | 30°    | 60°    | 90°   | 120° | 150° | 180° |
|-------|--------|--------|--------|-------|------|------|------|
| 67.5° | 8078.8 | 7063.1 | 4051.8 | 386.6 | 8.7  | 6.3  | 9.6  |
| 68°   | 8070.9 | 7046.0 | 4021.7 | 374.8 | 8.3  | 6.3  | 9.8  |
| 68.5° | 8062.0 | 7026.2 | 3989.5 | 364.1 | 8.2  | 6.3  | 10.1 |
| 69°   | 8055.8 | 7007.0 | 3959.0 | 354.9 | 8.1  | 6.3  | 10.3 |
| 69.5° | 8046.8 | 6988.5 | 3924.8 | 345.2 | 8.0  | 6.4  | 10.6 |
| 70°   | 8038.9 | 6968.7 | 3887.6 | 333.9 | 7.7  | 6.5  | 10.9 |
| 70.5° | 8031.7 | 6950.4 | 3851.2 | 322.2 | 7.2  | 6.6  | 11.2 |
| 71°   | 8026.7 | 6931.5 | 3813.8 | 310.9 | 7.0  | 6.8  | 11.5 |
| 71.5° | 8019.4 | 6913.3 | 3774.3 | 300.0 | 6.8  | 7.0  | 11.7 |
| 72°   | 8012.6 | 6897.8 | 3734.0 | 289.1 | 6.8  | 7.2  | 12.0 |
| 72.5° | 8008.5 | 6881.9 | 3694.0 | 278.2 | 6.8  | 7.4  | 12.2 |
| 73°   | 8005.5 | 6866.1 | 3650.1 | 267.3 | 6.8  | 7.6  | 12.5 |
| 73.5° | 8002.2 | 6850.9 | 3606.5 | 256.5 | 6.8  | 7.9  | 12.8 |
| 74°   | 7999.2 | 6838.5 | 3559.9 | 244.8 | 6.8  | 8.1  | 13.0 |
| 74.5° | 7997.1 | 6825.9 | 3512.1 | 233.0 | 6.8  | 8.3  | 13.3 |
| 75°   | 7997.8 | 6814.9 | 3464.9 | 220.3 | 6.9  | 8.6  | 13.6 |
| 75.5° | 7995.8 | 6807.1 | 3419.6 | 207.2 | 6.9  | 8.8  | 13.9 |
| 76°   | 7994.7 | 6799.7 | 3373.1 | 194.0 | 6.9  | 9.0  | 14.1 |
| 76.5° | 7993.6 | 6792.8 | 3328.6 | 181.3 | 7.0  | 9.2  | 14.4 |
| 77°   | 7990.6 | 6786.3 | 3283.8 | 168.2 | 7.0  | 9.4  | 14.6 |
| 77.5° | 7987.5 | 6780.9 | 3236.4 | 155.4 | 7.1  | 9.7  | 14.8 |
| 78°   | 7983.2 | 6774.2 | 3181.3 | 142.8 | 7.1  | 9.9  | 15.0 |
| 78.5° | 7974.6 | 6768.5 | 3128.0 | 131.0 | 7.2  | 10.1 | 15.3 |
| 79°   | 7966.0 | 6760.5 | 3069.5 | 119.8 | 7.3  | 10.3 | 15.5 |
| 79.5° | 7957.0 | 6748.6 | 3012.9 | 109.2 | 7.4  | 10.5 | 15.7 |
| 80°   | 7944.0 | 6736.8 | 2954.5 | 98.1  | 7.4  | 10.8 | 16.0 |
| 80.5° | 7929.8 | 6725.3 | 2900.0 | 88.0  | 7.5  | 11.0 | 16.2 |
| 81°   | 7911.5 | 6709.8 | 2842.4 | 78.5  | 7.6  | 11.2 | 16.5 |
| 81.5° | 7893.5 | 6694.2 | 2789.8 | 70.1  | 7.7  | 11.4 | 16.7 |
| 82°   | 7875.7 | 6679.2 | 2733.5 | 62.7  | 7.8  | 11.6 | 16.9 |
| 82.5° | 7859.1 | 6661.1 | 2671.8 | 56.4  | 7.9  | 11.8 | 17.1 |
| 83°   | 7839.5 | 6640.3 | 2607.5 | 50.8  | 8.0  | 12.1 | 17.3 |
| 83.5° | 7821.0 | 6617.3 | 2545.3 | 45.5  | 8.1  | 12.3 | 17.5 |
| 84°   | 7804.7 | 6597.8 | 2485.4 | 40.7  | 8.2  | 12.5 | 17.7 |
| 84.5° | 7780.3 | 6582.4 | 2429.5 | 36.4  | 8.4  | 12.7 | 18.0 |
| 85°   | 7752.3 | 6570.3 | 2376.9 | 32.3  | 8.5  | 13.0 | 18.2 |
| 85.5° | 7722.9 | 6555.6 | 2325.7 | 28.9  | 8.6  | 13.1 | 18.4 |
| 86°   | 7685.6 | 6543.5 | 2279.0 | 25.8  | 8.8  | 13.4 | 18.6 |
| 86.5° | 7644.0 | 6533.1 | 2232.5 | 22.9  | 8.9  | 13.6 | 18.8 |
| 87°   | 7602.2 | 6524.6 | 2193.2 | 20.0  | 9.1  | 13.8 | 19.0 |
| 87.5° | 7554.4 | 6516.3 | 2156.9 | 17.6  | 9.2  | 14.0 | 19.2 |
| 88°   | 7503.1 | 6509.3 | 2121.2 | 15.1  | 9.4  | 14.2 | 19.3 |
| 88.5° | 7453.1 | 6501.8 | 2085.8 | 12.9  | 9.5  | 14.4 | 19.5 |
| 89°   | 7398.9 | 6491.5 | 2056.2 | 11.1  | 9.6  | 14.5 | 19.6 |
| 89.5° | 7343.0 | 6481.7 | 2038.8 | 9.7   | 9.7  | 14.7 | 19.8 |

REPORT NUMBER: P1197244

CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-4000K-POSITION 45

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 30°    | 60°    | 90° | 120° | 150° | 180° |
|--------|--------|--------|--------|-----|------|------|------|
| 90°    | 7290.1 | 6479.4 | 2030.9 | 8.3 | 9.8  | 14.9 | 19.9 |
| 90.5°  | 7242.8 | 6491.4 | 2037.0 | 7.4 | 9.9  | 15.1 | 20.0 |
| 91°    | 7195.2 | 6523.5 | 2061.8 | 7.2 | 10.0 | 15.2 | 20.1 |
| 91.5°  | 7153.0 | 6577.3 | 2102.6 | 7.2 | 10.1 | 15.4 | 20.2 |
| 92°    | 7117.2 | 6639.6 | 2164.6 | 7.0 | 10.3 | 15.6 | 20.4 |
| 92.5°  | 7070.9 | 6674.3 | 2245.6 | 6.9 | 10.4 | 15.7 | 20.5 |
| 93°    | 6970.7 | 6679.2 | 2317.5 | 6.9 | 10.5 | 15.9 | 20.7 |
| 93.5°  | 6818.3 | 6625.0 | 2358.9 | 6.8 | 10.6 | 16.0 | 20.9 |
| 94°    | 6625.1 | 6529.3 | 2326.1 | 6.7 | 10.7 | 16.2 | 21.0 |
| 94.5°  | 6407.3 | 6386.4 | 2229.6 | 6.6 | 10.9 | 16.4 | 21.2 |
| 95°    | 6231.0 | 6227.5 | 2082.0 | 6.6 | 11.0 | 16.5 | 21.3 |
| 95.5°  | 6138.6 | 6068.3 | 1902.2 | 6.5 | 11.1 | 16.7 | 21.4 |
| 96°    | 6179.3 | 5871.2 | 1741.8 | 6.4 | 11.3 | 16.9 | 21.5 |
| 96.5°  | 6300.4 | 5575.7 | 1587.8 | 6.4 | 11.4 | 17.1 | 21.6 |
| 97°    | 6429.2 | 5212.8 | 1417.5 | 6.3 | 11.5 | 17.3 | 21.7 |
| 97.5°  | 6543.9 | 4855.1 | 1223.4 | 6.3 | 11.6 | 17.5 | 21.8 |
| 98°    | 6329.2 | 4490.0 | 1030.3 | 6.2 | 11.7 | 17.7 | 21.9 |
| 98.5°  | 6115.7 | 4208.0 | 872.9  | 6.2 | 11.8 | 17.8 | 22.0 |
| 99°    | 5904.3 | 4038.2 | 764.9  | 6.1 | 11.9 | 18.0 | 22.0 |
| 99.5°  | 5693.3 | 3900.8 | 656.9  | 6.0 | 12.0 | 18.1 | 22.1 |
| 100°   | 5474.3 | 3876.4 | 548.9  | 6.0 | 12.1 | 18.2 | 22.2 |
| 100.5° | 5086.8 | 4063.1 | 440.9  | 5.9 | 12.2 | 18.3 | 22.3 |
| 101°   | 4749.3 | 4401.1 | 335.8  | 5.8 | 12.3 | 18.4 | 22.3 |
| 101.5° | 4446.0 | 4684.8 | 305.2  | 5.8 | 12.4 | 18.5 | 22.4 |
| 102°   | 4245.1 | 4639.6 | 313.0  | 5.8 | 12.5 | 18.6 | 22.4 |
| 102.5° | 4278.0 | 4141.4 | 336.1  | 5.7 | 12.6 | 18.8 | 22.5 |
| 103°   | 4490.9 | 3219.8 | 326.7  | 5.7 | 12.7 | 18.9 | 22.6 |
| 103.5° | 4773.4 | 2875.0 | 317.1  | 5.7 | 12.8 | 19.1 | 22.6 |
| 104°   | 4815.4 | 2543.2 | 305.6  | 5.7 | 12.9 | 19.2 | 22.7 |
| 104.5° | 4362.7 | 2211.2 | 293.1  | 5.7 | 13.0 | 19.4 | 22.7 |
| 105°   | 3325.5 | 1878.5 | 240.4  | 5.7 | 13.1 | 19.5 | 22.8 |
| 105.5° | 2712.6 | 1545.1 | 146.8  | 5.7 | 13.2 | 19.6 | 22.8 |
| 106°   | 2099.8 | 1212.8 | 114.6  | 5.7 | 13.3 | 19.7 | 22.9 |
| 106.5° | 1487.0 | 880.8  | 99.0   | 5.7 | 13.4 | 19.8 | 22.9 |
| 107°   | 874.1  | 548.8  | 83.4   | 5.8 | 13.5 | 19.9 | 22.9 |
| 107.5° | 269.6  | 216.8  | 71.0   | 5.8 | 13.6 | 20.0 | 23.0 |
| 108°   | 258.2  | 213.0  | 60.1   | 5.8 | 13.7 | 20.0 | 23.0 |
| 108.5° | 257.1  | 205.7  | 50.0   | 5.8 | 13.7 | 20.1 | 23.0 |
| 109°   | 266.1  | 187.8  | 40.7   | 5.9 | 13.8 | 20.2 | 23.1 |
| 109.5° | 274.6  | 168.4  | 33.2   | 5.9 | 13.9 | 20.2 | 23.1 |
| 110°   | 282.2  | 150.3  | 27.1   | 6.0 | 14.0 | 20.3 | 23.1 |
| 110.5° | 273.6  | 131.5  | 22.1   | 6.1 | 14.0 | 20.4 | 23.2 |
| 111°   | 241.3  | 118.0  | 18.5   | 6.2 | 14.1 | 20.5 | 23.2 |
| 111.5° | 214.7  | 109.7  | 15.2   | 6.2 | 14.2 | 20.5 | 23.2 |
| 112°   | 200.6  | 105.5  | 13.0   | 6.3 | 14.2 | 20.6 | 23.2 |

REPORT NUMBER: P1197244

CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-4000K-POSITION 45

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 30°   | 60°  | 90°  | 120° | 150° | 180° |
|--------|-------|-------|------|------|------|------|------|
| 112.5° | 185.8 | 104.4 | 11.6 | 6.4  | 14.3 | 20.6 | 23.3 |
| 113°   | 169.2 | 104.8 | 10.3 | 6.5  | 14.4 | 20.7 | 23.3 |
| 113.5° | 161.0 | 108.0 | 9.1  | 6.5  | 14.5 | 20.7 | 23.3 |
| 114°   | 158.5 | 113.5 | 8.0  | 6.6  | 14.5 | 20.8 | 23.3 |
| 114.5° | 159.1 | 118.3 | 7.1  | 6.7  | 14.6 | 20.8 | 23.3 |
| 115°   | 159.4 | 121.4 | 6.6  | 6.8  | 14.7 | 20.8 | 23.3 |
| 115.5° | 157.2 | 121.7 | 6.2  | 6.8  | 14.7 | 20.9 | 23.3 |
| 116°   | 156.8 | 117.0 | 5.8  | 6.9  | 14.8 | 20.9 | 23.3 |
| 116.5° | 156.5 | 101.5 | 5.4  | 7.0  | 14.9 | 21.0 | 23.3 |
| 117°   | 155.5 | 82.6  | 5.0  | 7.1  | 14.9 | 21.0 | 23.4 |
| 117.5° | 151.7 | 57.4  | 4.7  | 7.2  | 15.0 | 21.0 | 23.4 |
| 118°   | 144.8 | 32.9  | 4.4  | 7.3  | 15.1 | 21.1 | 23.4 |
| 118.5° | 133.8 | 21.3  | 4.1  | 7.3  | 15.1 | 21.1 | 23.4 |
| 119°   | 118.7 | 17.5  | 3.8  | 7.4  | 15.2 | 21.2 | 23.4 |
| 119.5° | 99.1  | 14.5  | 3.5  | 7.5  | 15.2 | 21.2 | 23.4 |
| 120°   | 72.4  | 11.6  | 3.4  | 7.6  | 15.3 | 21.2 | 23.3 |
| 120.5° | 44.5  | 8.9   | 3.2  | 7.7  | 15.3 | 21.3 | 23.3 |
| 121°   | 25.4  | 6.4   | 3.1  | 7.8  | 15.4 | 21.3 | 23.3 |
| 121.5° | 17.7  | 4.7   | 3.0  | 7.9  | 15.4 | 21.3 | 23.3 |
| 122°   | 13.9  | 3.5   | 2.8  | 7.9  | 15.5 | 21.3 | 23.3 |
| 122.5° | 10.5  | 2.7   | 2.7  | 8.0  | 15.5 | 21.3 | 23.3 |
| 123°   | 7.9   | 2.2   | 2.6  | 8.1  | 15.6 | 21.3 | 23.3 |
| 123.5° | 5.8   | 2.0   | 2.6  | 8.2  | 15.6 | 21.3 | 23.3 |
| 124°   | 4.4   | 1.9   | 2.6  | 8.3  | 15.7 | 21.4 | 23.3 |
| 124.5° | 3.3   | 1.8   | 2.6  | 8.4  | 15.7 | 21.4 | 23.3 |
| 125°   | 2.5   | 1.8   | 2.7  | 8.4  | 15.8 | 21.4 | 23.2 |
| 125.5° | 2.1   | 1.7   | 2.7  | 8.5  | 15.8 | 21.4 | 23.2 |
| 126°   | 2.0   | 1.7   | 2.8  | 8.6  | 15.9 | 21.4 | 23.2 |
| 126.5° | 1.9   | 1.7   | 2.8  | 8.7  | 15.9 | 21.4 | 23.2 |
| 127°   | 1.9   | 1.7   | 2.9  | 8.8  | 16.0 | 21.4 | 23.1 |
| 127.5° | 1.8   | 1.7   | 3.0  | 8.9  | 16.0 | 21.4 | 23.1 |
| 128°   | 1.8   | 1.6   | 3.0  | 9.0  | 16.0 | 21.4 | 23.1 |
| 128.5° | 1.8   | 1.6   | 3.1  | 9.1  | 16.1 | 21.4 | 23.1 |
| 129°   | 1.8   | 1.6   | 3.2  | 9.1  | 16.1 | 21.4 | 23.0 |
| 129.5° | 1.8   | 1.6   | 3.3  | 9.2  | 16.2 | 21.4 | 23.0 |
| 130°   | 1.7   | 1.6   | 3.4  | 9.3  | 16.2 | 21.4 | 22.9 |
| 130.5° | 1.7   | 1.6   | 3.5  | 9.4  | 16.3 | 21.4 | 22.9 |
| 131°   | 1.7   | 1.5   | 3.6  | 9.5  | 16.3 | 21.4 | 22.8 |
| 131.5° | 1.7   | 1.5   | 3.7  | 9.6  | 16.4 | 21.4 | 22.8 |
| 132°   | 1.7   | 1.5   | 3.7  | 9.6  | 16.4 | 21.4 | 22.7 |
| 132.5° | 1.6   | 1.5   | 3.8  | 9.7  | 16.4 | 21.4 | 22.7 |
| 133°   | 1.6   | 1.5   | 3.9  | 9.8  | 16.5 | 21.4 | 22.6 |
| 133.5° | 1.5   | 1.5   | 4.0  | 9.9  | 16.5 | 21.3 | 22.6 |
| 134°   | 1.4   | 1.5   | 4.2  | 10.0 | 16.5 | 21.3 | 22.5 |
| 134.5° | 1.4   | 1.5   | 4.3  | 10.1 | 16.6 | 21.3 | 22.5 |

REPORT NUMBER: P1197244

CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-4000K-POSITION 45

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 30° | 60° | 90°  | 120° | 150° | 180° |
|--------|-----|-----|-----|------|------|------|------|
| 135°   | 1.3 | 1.5 | 4.4 | 10.2 | 16.6 | 21.3 | 22.4 |
| 135.5° | 1.3 | 1.5 | 4.5 | 10.2 | 16.7 | 21.3 | 22.4 |
| 136°   | 1.3 | 1.5 | 4.6 | 10.3 | 16.7 | 21.3 | 22.4 |
| 136.5° | 1.3 | 1.5 | 4.7 | 10.4 | 16.7 | 21.3 | 22.4 |
| 137°   | 1.3 | 1.5 | 4.8 | 10.5 | 16.7 | 21.2 | 22.4 |
| 137.5° | 1.3 | 1.5 | 4.9 | 10.6 | 16.8 | 21.2 | 22.3 |
| 138°   | 1.3 | 1.6 | 5.0 | 10.6 | 16.8 | 21.2 | 22.3 |
| 138.5° | 1.3 | 1.6 | 5.1 | 10.7 | 16.8 | 21.2 | 22.2 |
| 139°   | 1.3 | 1.7 | 5.2 | 10.8 | 16.9 | 21.1 | 22.1 |
| 139.5° | 1.3 | 1.7 | 5.3 | 10.9 | 16.9 | 21.1 | 22.1 |
| 140°   | 1.3 | 1.8 | 5.5 | 11.0 | 16.9 | 21.1 | 22.0 |
| 140.5° | 1.4 | 1.8 | 5.6 | 11.0 | 16.9 | 21.1 | 21.9 |
| 141°   | 1.4 | 1.9 | 5.7 | 11.1 | 16.9 | 21.0 | 21.8 |
| 141.5° | 1.4 | 1.9 | 5.8 | 11.2 | 17.0 | 21.0 | 21.7 |
| 142°   | 1.5 | 2.0 | 5.9 | 11.3 | 17.0 | 21.0 | 21.6 |
| 142.5° | 1.5 | 2.0 | 6.0 | 11.3 | 17.0 | 20.9 | 21.5 |
| 143°   | 1.5 | 2.1 | 6.1 | 11.4 | 17.0 | 20.9 | 21.3 |
| 143.5° | 1.6 | 2.2 | 6.2 | 11.5 | 17.0 | 20.8 | 21.2 |
| 144°   | 1.6 | 2.3 | 6.3 | 11.6 | 17.0 | 20.7 | 21.1 |
| 144.5° | 1.7 | 2.3 | 6.4 | 11.6 | 17.0 | 20.7 | 21.0 |
| 145°   | 1.7 | 2.4 | 6.5 | 11.7 | 17.0 | 20.6 | 20.9 |
| 145.5° | 1.8 | 2.5 | 6.6 | 11.8 | 17.0 | 20.6 | 20.7 |
| 146°   | 1.9 | 2.6 | 6.8 | 11.9 | 17.0 | 20.5 | 20.6 |
| 146.5° | 1.9 | 2.7 | 6.9 | 12.0 | 17.0 | 20.5 | 20.5 |
| 147°   | 2.0 | 2.8 | 7.0 | 12.0 | 17.0 | 20.4 | 20.3 |
| 147.5° | 2.0 | 2.8 | 7.1 | 12.1 | 17.0 | 20.3 | 20.2 |
| 148°   | 2.1 | 2.9 | 7.2 | 12.2 | 17.0 | 20.3 | 20.1 |
| 148.5° | 2.1 | 3.0 | 7.3 | 12.2 | 17.0 | 20.2 | 20.0 |
| 149°   | 2.2 | 3.1 | 7.4 | 12.3 | 17.0 | 20.2 | 19.9 |
| 149.5° | 2.2 | 3.2 | 7.5 | 12.4 | 17.1 | 20.1 | 19.8 |
| 150°   | 2.3 | 3.3 | 7.6 | 12.4 | 17.1 | 20.1 | 19.6 |
| 150.5° | 2.3 | 3.4 | 7.7 | 12.5 | 17.1 | 20.1 | 19.5 |
| 151°   | 2.4 | 3.5 | 7.9 | 12.6 | 17.1 | 20.0 | 19.3 |
| 151.5° | 2.4 | 3.6 | 8.0 | 12.7 | 17.1 | 20.0 | 19.2 |
| 152°   | 2.5 | 3.8 | 8.1 | 12.7 | 17.1 | 19.9 | 19.0 |
| 152.5° | 2.5 | 3.9 | 8.2 | 12.8 | 17.1 | 19.9 | 18.9 |
| 153°   | 2.6 | 4.0 | 8.3 | 12.9 | 17.1 | 19.9 | 18.7 |
| 153.5° | 2.6 | 4.1 | 8.4 | 12.9 | 17.1 | 19.9 | 18.5 |
| 154°   | 2.7 | 4.2 | 8.5 | 13.0 | 17.1 | 19.8 | 18.4 |
| 154.5° | 2.8 | 4.4 | 8.6 | 13.1 | 17.1 | 19.7 | 18.2 |
| 155°   | 2.8 | 4.5 | 8.8 | 13.1 | 17.1 | 19.7 | 18.1 |
| 155.5° | 2.9 | 4.6 | 8.9 | 13.1 | 17.1 | 19.6 | 17.9 |
| 156°   | 3.0 | 4.7 | 9.0 | 13.2 | 17.1 | 19.5 | 17.7 |
| 156.5° | 3.1 | 4.8 | 9.1 | 13.3 | 17.1 | 19.4 | 17.5 |
| 157°   | 3.2 | 4.9 | 9.2 | 13.3 | 17.1 | 19.3 | 17.4 |

REPORT NUMBER: P1197244

CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-4000K-POSITION 45

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 30°  | 60°  | 90°  | 120° | 150° | 180° |
|--------|-----|------|------|------|------|------|------|
| 157.5° | 3.3 | 5.1  | 9.4  | 13.4 | 17.1 | 19.2 | 17.2 |
| 158°   | 3.4 | 5.2  | 9.5  | 13.4 | 17.1 | 19.1 | 17.1 |
| 158.5° | 3.5 | 5.4  | 9.6  | 13.5 | 17.0 | 19.1 | 17.0 |
| 159°   | 3.6 | 5.5  | 9.7  | 13.6 | 17.0 | 19.0 | 16.8 |
| 159.5° | 3.8 | 5.6  | 9.8  | 13.6 | 17.0 | 18.9 | 16.6 |
| 160°   | 3.9 | 5.8  | 9.9  | 13.7 | 17.0 | 18.8 | 16.4 |
| 160.5° | 4.0 | 5.9  | 10.0 | 13.7 | 17.0 | 18.7 | 16.3 |
| 161°   | 4.2 | 6.1  | 10.2 | 13.8 | 16.9 | 18.6 | 16.1 |
| 161.5° | 4.3 | 6.2  | 10.3 | 13.8 | 16.9 | 18.5 | 15.9 |
| 162°   | 4.5 | 6.4  | 10.4 | 13.9 | 16.9 | 18.4 | 15.7 |
| 162.5° | 4.6 | 6.6  | 10.5 | 13.9 | 16.9 | 18.3 | 15.5 |
| 163°   | 4.8 | 6.8  | 10.6 | 14.0 | 16.9 | 18.2 | 15.3 |
| 163.5° | 4.9 | 6.9  | 10.7 | 14.0 | 16.9 | 18.1 | 15.1 |
| 164°   | 5.1 | 7.1  | 10.8 | 14.1 | 16.9 | 18.0 | 14.8 |
| 164.5° | 5.2 | 7.3  | 10.9 | 14.1 | 16.8 | 18.0 | 14.6 |
| 165°   | 5.4 | 7.5  | 11.0 | 14.2 | 16.8 | 17.9 | 14.4 |
| 165.5° | 5.5 | 7.6  | 11.1 | 14.2 | 16.8 | 17.8 | 14.2 |
| 166°   | 5.6 | 7.8  | 11.2 | 14.3 | 16.8 | 17.7 | 14.1 |
| 166.5° | 5.8 | 8.0  | 11.3 | 14.3 | 16.7 | 17.6 | 13.9 |
| 167°   | 5.9 | 8.1  | 11.4 | 14.4 | 16.7 | 17.5 | 13.8 |
| 167.5° | 6.0 | 8.3  | 11.5 | 14.4 | 16.7 | 17.4 | 13.6 |
| 168°   | 6.2 | 8.5  | 11.7 | 14.4 | 16.7 | 17.3 | 13.4 |
| 168.5° | 6.3 | 8.6  | 11.8 | 14.5 | 16.6 | 17.2 | 13.2 |
| 169°   | 6.4 | 8.8  | 11.9 | 14.6 | 16.6 | 17.2 | 13.1 |
| 169.5° | 6.5 | 8.9  | 12.0 | 14.6 | 16.6 | 17.1 | 12.9 |
| 170°   | 6.7 | 9.1  | 12.1 | 14.7 | 16.5 | 17.0 | 12.7 |
| 170.5° | 6.8 | 9.2  | 12.2 | 14.7 | 16.5 | 16.9 | 12.5 |
| 171°   | 6.9 | 9.4  | 12.3 | 14.7 | 16.4 | 16.7 | 12.4 |
| 171.5° | 7.1 | 9.5  | 12.4 | 14.8 | 16.4 | 16.6 | 12.2 |
| 172°   | 7.2 | 9.7  | 12.5 | 14.8 | 16.3 | 16.5 | 12.0 |
| 172.5° | 7.3 | 9.8  | 12.6 | 14.8 | 16.3 | 16.3 | 11.8 |
| 173°   | 7.4 | 10.0 | 12.7 | 14.8 | 16.2 | 16.2 | 11.5 |
| 173.5° | 7.5 | 10.1 | 12.8 | 14.9 | 16.2 | 16.1 | 11.4 |
| 174°   | 7.7 | 10.2 | 12.9 | 14.9 | 16.1 | 16.0 | 11.2 |
| 174.5° | 7.8 | 10.4 | 13.0 | 14.9 | 16.1 | 15.9 | 11.0 |
| 175°   | 7.9 | 10.5 | 13.1 | 15.0 | 16.0 | 15.8 | 10.8 |
| 175.5° | 8.1 | 10.7 | 13.2 | 15.0 | 16.0 | 15.7 | 10.7 |
| 176°   | 8.2 | 10.8 | 13.3 | 15.0 | 15.9 | 15.6 | 10.5 |
| 176.5° | 8.3 | 10.9 | 13.4 | 15.0 | 15.9 | 15.5 | 10.3 |
| 177°   | 8.5 | 11.1 | 13.5 | 15.1 | 15.8 | 15.4 | 10.2 |
| 177.5° | 8.6 | 11.2 | 13.6 | 15.1 | 15.8 | 15.3 | 10.0 |
| 178°   | 8.7 | 11.4 | 13.7 | 15.1 | 15.7 | 15.1 | 9.9  |
| 178.5° | 8.9 | 11.5 | 13.8 | 15.1 | 15.6 | 15.0 | 9.7  |
| 179°   | 9.0 | 11.6 | 13.9 | 15.1 | 15.6 | 14.9 | 9.6  |
| 179.5° | 9.2 | 11.7 | 13.9 | 15.1 | 15.5 | 14.8 | 9.4  |



REPORT NUMBER: P1197244  
CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-4000K-POSITION 45

**CANDELA DISTRIBUTION (continued):**

|      | 0°  | 30° | 60° | 90° | 120° | 150° | 180° |
|------|-----|-----|-----|-----|------|------|------|
| 180° | 9.3 | 9.3 | 9.3 | 9.3 | 9.3  | 9.3  | 9.3  |

(END OF REPORT)