

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: P1197133

Luminaire Tested: AWPf150S-BZ-BZ-HIGH-3000K-POSITION 45

Issue Date: 10/29/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1197133  
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: AWP150S-BZ-BZ-HIGH-3000K-POSITION 45  
Description: AWP Architectural Wall Pack Series - Wall Mount Luminaire  
Light Source: 80 CRI, 3000K  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 18720 (1 lamp)  
Luminaire Lumens: 19293 lumens  
Efficiency: 103.1%  
Efficacy: 129.0 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): 149.6  
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

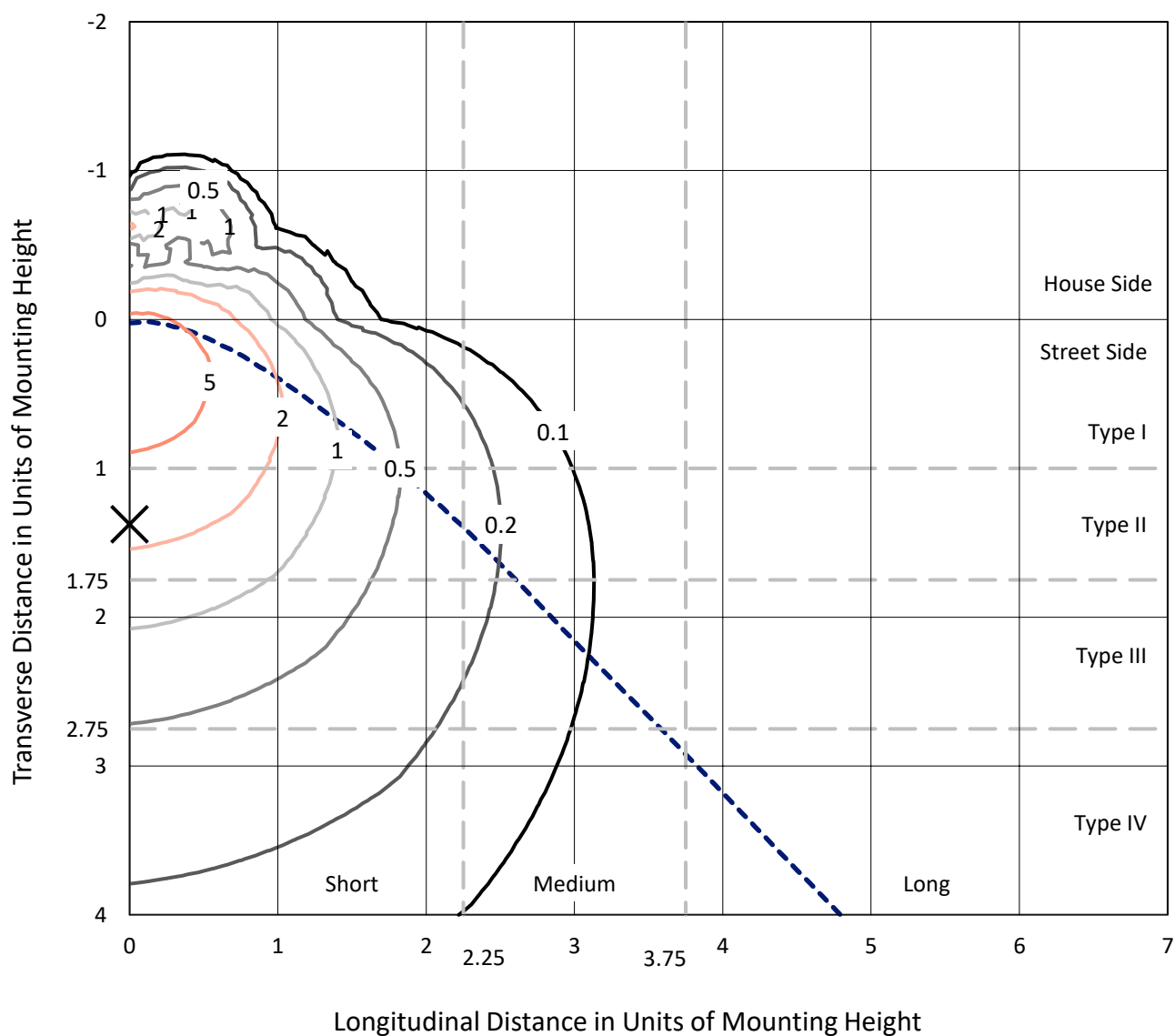
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

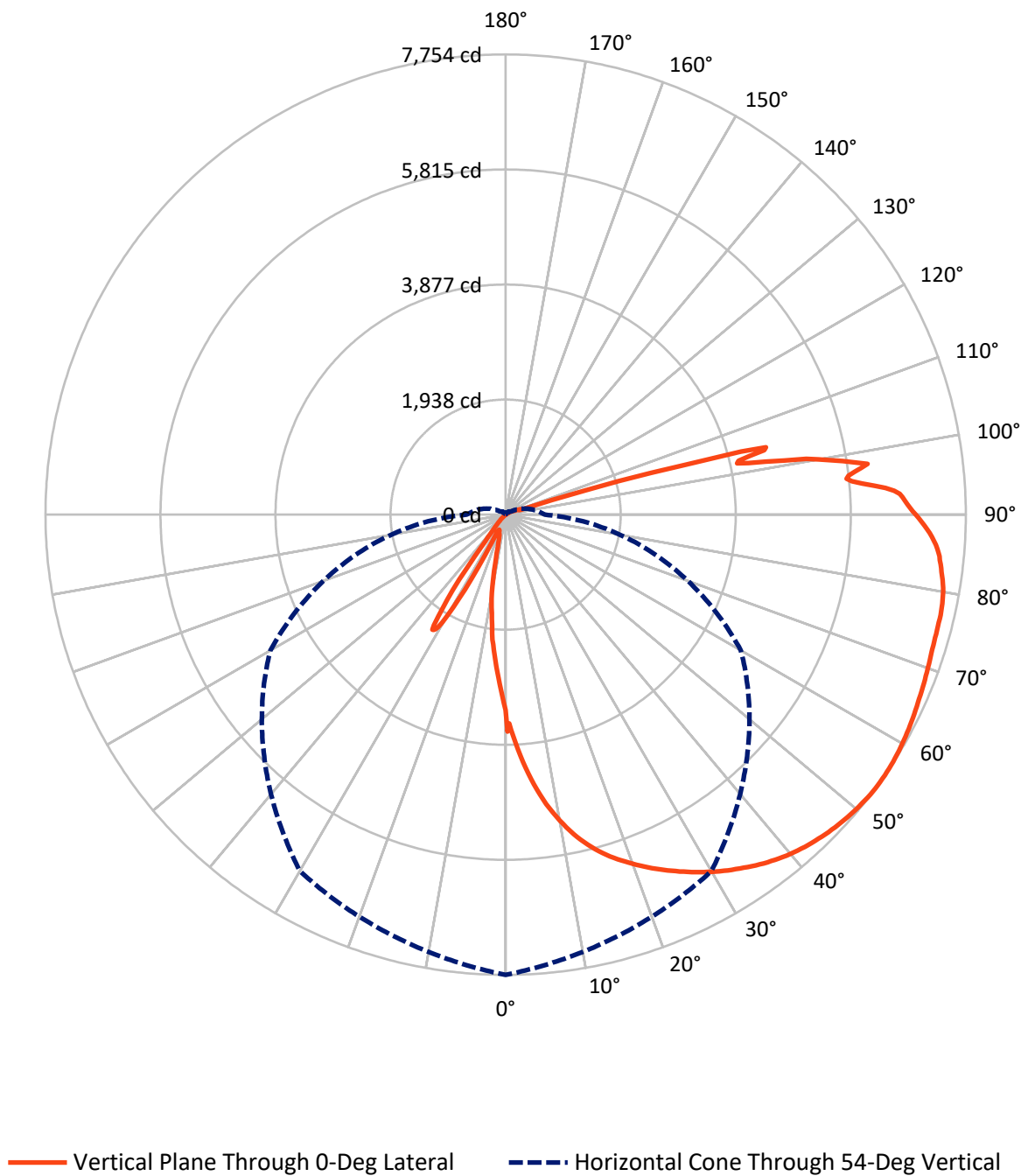


Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type IV - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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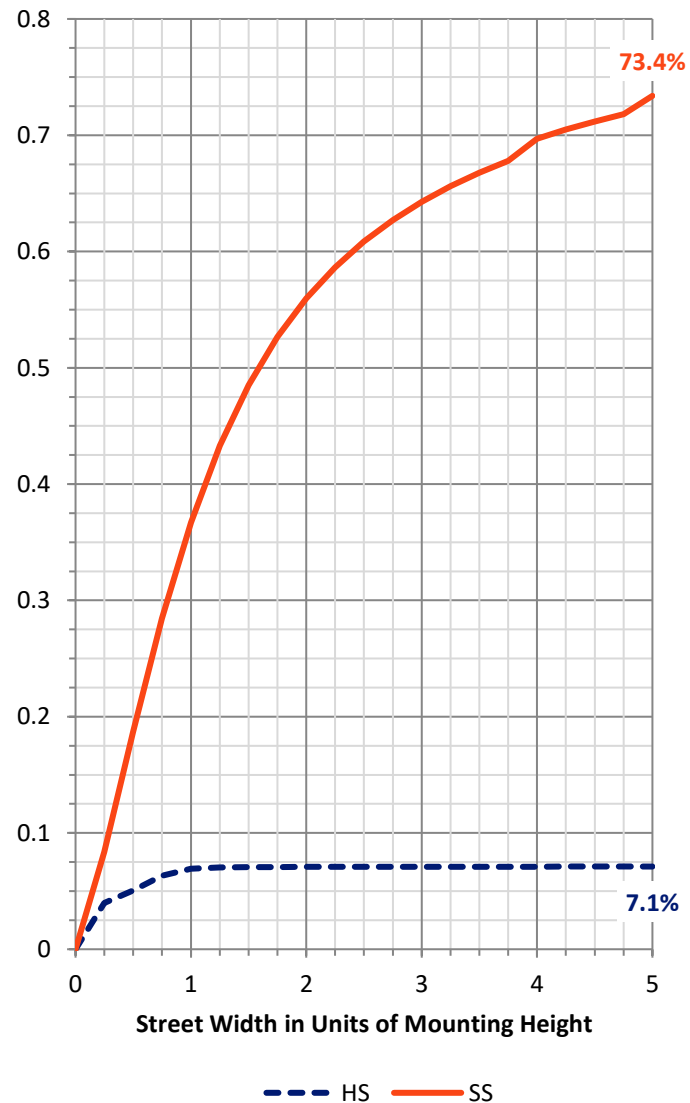
**FLUX DISTRIBUTION:**

|                    |        | Downward | Upward | Total   |
|--------------------|--------|----------|--------|---------|
| <b>House Side</b>  | Lumens | 1341.2   | 48.7   | 1389.9  |
|                    | % Lamp | 7.2      | 0.3    | 7.4     |
| <b>Street Side</b> | Lumens | 15407.8  | 2495.3 | 17903.1 |
|                    | % Lamp | 82.3     | 13.3   | 95.6    |
| <b>Total</b>       | Lumens | 16749.0  | 2544.0 | 19293.0 |
|                    | % Lamp | 89.5     | 13.6   | 103.1   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture | % Lamp |
|-----------|---------|-----------|--------|
| 0°-10°    | 344.7   | 1.8       | 1.8    |
| 10°-20°   | 958.4   | 5.0       | 5.1    |
| 20°-30°   | 1488.5  | 7.7       | 8.0    |
| 30°-40°   | 2071.6  | 10.7      | 11.1   |
| 40°-50°   | 2384.8  | 12.4      | 12.7   |
| 50°-60°   | 2412.5  | 12.5      | 12.9   |
| 60°-70°   | 2469.2  | 12.8      | 13.2   |
| 70°-80°   | 2408.6  | 12.5      | 12.9   |
| 80°-90°   | 2210.7  | 11.5      | 11.8   |
| 90°-100°  | 1844.6  | 9.6       | 9.9    |
| 100°-110° | 628.1   | 3.3       | 3.4    |
| 110°-120° | 37.0    | 0.2       | 0.2    |
| 120°-130° | 9.6     | 0.0       | 0.1    |
| 130°-140° | 8.0     | 0.0       | 0.0    |
| 140°-150° | 6.9     | 0.0       | 0.0    |
| 150°-160° | 5.3     | 0.0       | 0.0    |
| 160°-170° | 3.4     | 0.0       | 0.0    |
| 170°-180° | 1.2     | 0.0       | 0.0    |
| 0°-90°    | 16749.0 | 86.8      | 89.5   |
| 0°-180°   | 19293.0 | 100.0     | 103.1  |

**Coefficient of Utilization**



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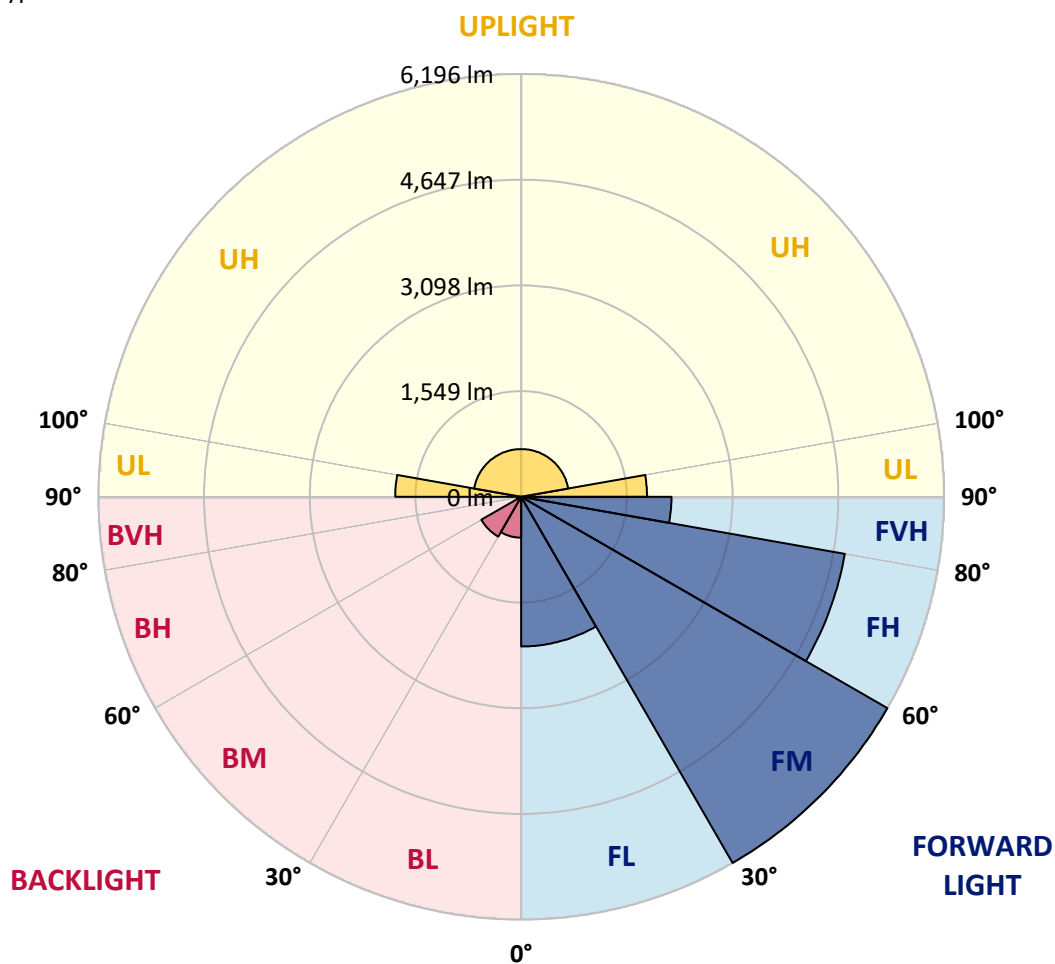
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone          |             | Lumens | % Lamp | Zone Rating/Lumen Limit |         |         |
|---------------|-------------|--------|--------|-------------------------|---------|---------|
|               |             |        |        | B                       | U       | G       |
| FL            | (0°-30°)    | 2193.2 | 11.7   |                         |         |         |
| FM            | (30°-60°)   | 6196.2 | 33.1   |                         |         |         |
| FH            | (60°-80°)   | 4816.2 | 25.7   |                         |         | G2/5000 |
| FVH           | (80°-90°)   | 2202.2 | 11.8   |                         |         | G5      |
| BL            | (0°-30°)    | 598.4  | 3.2    | B2/1000                 |         |         |
| BM            | (30°-60°)   | 672.6  | 3.6    | B1/1000                 |         |         |
| BH            | (60°-80°)   | 61.6   | 0.3    | B0/110                  |         | G0/110  |
| BVH           | (80°-90°)   | 8.5    | 0.0    |                         |         | G0/10   |
| UL            | (90°-100°)  | 1844.6 | 9.9    |                         | U5      |         |
| UH            | (100°-180°) | 699.4  | 3.7    |                         | U4/1000 |         |
| Trapped Light |             | -573.0 | -3.1   |                         |         |         |

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

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 30°    | 60°    | 90°    | 120°   | 150°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3655.0 | 3655.0 | 3655.0 | 3655.0 | 3655.0 | 3655.0 | 3655.0 |
| 0.5°  | 3516.9 | 3662.8 | 3774.8 | 3798.3 | 3724.2 | 3573.3 | 3290.3 |
| 1°    | 3630.0 | 3760.3 | 3828.9 | 3797.7 | 3669.3 | 3473.5 | 3180.0 |
| 1.5°  | 3742.7 | 3853.8 | 3882.4 | 3794.7 | 3613.8 | 3373.0 | 3069.6 |
| 2°    | 3850.8 | 3945.7 | 3936.0 | 3793.4 | 3554.0 | 3281.4 | 2960.1 |
| 2.5°  | 3957.9 | 4038.9 | 3989.0 | 3792.0 | 3496.3 | 3182.2 | 2855.3 |
| 3°    | 4066.4 | 4128.4 | 4037.9 | 3788.3 | 3437.4 | 3085.3 | 2756.3 |
| 3.5°  | 4172.7 | 4216.6 | 4086.6 | 3782.4 | 3377.0 | 2990.8 | 2661.8 |
| 4°    | 4270.9 | 4307.3 | 4137.5 | 3777.9 | 3317.1 | 2902.2 | 2567.3 |
| 4.5°  | 4374.6 | 4392.9 | 4184.9 | 3772.9 | 3257.9 | 2810.3 | 2472.9 |
| 5°    | 4470.1 | 4474.0 | 4229.2 | 3766.3 | 3197.0 | 2709.7 | 2378.6 |
| 5.5°  | 4568.6 | 4555.8 | 4276.3 | 3759.6 | 3138.1 | 2628.8 | 2284.3 |
| 6°    | 4662.4 | 4635.9 | 4320.9 | 3751.9 | 3076.9 | 2548.2 | 2197.8 |
| 6.5°  | 4750.7 | 4710.1 | 4365.0 | 3742.4 | 3017.8 | 2467.6 | 2119.1 |
| 7°    | 4836.2 | 4786.2 | 4407.6 | 3734.0 | 2956.8 | 2386.7 | 2013.4 |
| 7.5°  | 4922.1 | 4856.7 | 4450.1 | 3724.9 | 2898.2 | 2306.2 | 1882.7 |
| 8°    | 5003.8 | 4925.0 | 4488.3 | 3714.2 | 2838.1 | 2229.4 | 1769.4 |
| 8.5°  | 5080.6 | 4992.1 | 4527.6 | 3703.1 | 2779.7 | 2156.6 | 1670.4 |
| 9°    | 5156.1 | 5057.1 | 4564.5 | 3691.9 | 2720.3 | 2085.6 | 1586.1 |
| 9.5°  | 5227.3 | 5120.1 | 4601.8 | 3679.3 | 2658.9 | 2015.4 | 1508.7 |
| 10°   | 5295.5 | 5181.0 | 4635.8 | 3666.8 | 2599.9 | 1921.2 | 1427.3 |
| 10.5° | 5368.0 | 5239.0 | 4670.9 | 3652.9 | 2540.5 | 1810.2 | 1335.3 |
| 11°   | 5435.0 | 5296.3 | 4704.3 | 3638.5 | 2480.5 | 1709.8 | 1225.5 |
| 11.5° | 5499.6 | 5352.7 | 4735.9 | 3624.1 | 2424.0 | 1622.1 | 1095.5 |
| 12°   | 5560.9 | 5407.2 | 4765.8 | 3608.5 | 2367.6 | 1547.4 | 966.3  |
| 12.5° | 5620.1 | 5457.0 | 4796.4 | 3591.9 | 2310.5 | 1476.3 | 848.5  |
| 13°   | 5675.5 | 5507.6 | 4825.7 | 3573.9 | 2254.8 | 1404.2 | 749.5  |
| 13.5° | 5730.6 | 5554.8 | 4853.2 | 3555.9 | 2202.7 | 1327.2 | 666.0  |
| 14°   | 5783.9 | 5600.7 | 4878.9 | 3536.6 | 2147.7 | 1237.0 | 598.5  |
| 14.5° | 5834.2 | 5645.1 | 4904.4 | 3516.9 | 2094.3 | 1129.6 | 539.0  |
| 15°   | 5882.3 | 5686.9 | 4928.3 | 3496.6 | 2042.7 | 1016.4 | 489.6  |
| 15.5° | 5931.5 | 5728.1 | 4952.7 | 3475.0 | 1990.3 | 904.2  | 447.9  |
| 16°   | 5977.7 | 5768.4 | 4974.7 | 3453.5 | 1939.4 | 801.4  | 415.7  |
| 16.5° | 6019.3 | 5805.9 | 4997.0 | 3433.3 | 1889.8 | 710.2  | 390.2  |
| 17°   | 6063.4 | 5842.4 | 5017.2 | 3410.5 | 1841.6 | 636.3  | 372.2  |
| 17.5° | 6105.6 | 5877.3 | 5036.2 | 3387.4 | 1786.7 | 575.9  | 358.9  |
| 18°   | 6142.1 | 5910.6 | 5054.5 | 3365.3 | 1716.5 | 521.6  | 349.7  |
| 18.5° | 6181.5 | 5942.2 | 5071.0 | 3341.1 | 1643.3 | 477.1  | 344.2  |
| 19°   | 6221.3 | 5968.7 | 5087.0 | 3313.6 | 1576.1 | 439.6  | 341.0  |
| 19.5° | 6260.3 | 5994.9 | 5102.4 | 3287.5 | 1513.3 | 407.7  | 338.4  |
| 20°   | 6297.0 | 6021.2 | 5117.0 | 3261.3 | 1452.2 | 382.8  | 332.9  |
| 20.5° | 6335.7 | 6047.4 | 5129.9 | 3235.8 | 1397.5 | 363.4  | 322.3  |
| 21°   | 6372.7 | 6073.6 | 5142.6 | 3208.8 | 1346.3 | 350.1  | 308.0  |
| 21.5° | 6409.1 | 6100.1 | 5154.5 | 3182.5 | 1295.1 | 341.0  | 294.6  |
| 22°   | 6446.1 | 6122.6 | 5165.5 | 3154.6 | 1240.4 | 336.4  | 289.5  |

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**CANDELA DISTRIBUTION (continued):**

|       | 0°     | 30°    | 60°    | 90°    | 120°   | 150°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|
| 22.5° | 6481.9 | 6149.0 | 5175.7 | 3125.4 | 1183.5 | 335.5  | 284.5  |
| 23°   | 6518.1 | 6174.7 | 5185.6 | 3098.0 | 1121.9 | 338.1  | 279.6  |
| 23.5° | 6553.6 | 6198.8 | 5193.8 | 3068.1 | 1054.6 | 342.7  | 274.8  |
| 24°   | 6587.8 | 6224.0 | 5201.6 | 3038.4 | 985.2  | 349.3  | 284.1  |
| 24.5° | 6620.1 | 6248.4 | 5207.5 | 3008.0 | 909.2  | 357.6  | 296.7  |
| 25°   | 6654.2 | 6272.5 | 5213.5 | 2977.5 | 835.4  | 367.4  | 309.0  |
| 25.5° | 6687.6 | 6297.2 | 5218.5 | 2945.8 | 767.9  | 374.6  | 315.7  |
| 26°   | 6720.5 | 6323.1 | 5223.2 | 2914.4 | 708.1  | 376.3  | 316.9  |
| 26.5° | 6754.0 | 6344.4 | 5226.6 | 2882.6 | 657.3  | 374.3  | 336.6  |
| 27°   | 6788.7 | 6366.8 | 5229.2 | 2848.1 | 620.3  | 370.7  | 553.0  |
| 27.5° | 6820.5 | 6388.8 | 5230.0 | 2816.4 | 595.8  | 361.1  | 773.5  |
| 28°   | 6853.6 | 6410.7 | 5231.6 | 2783.3 | 579.4  | 349.1  | 994.0  |
| 28.5° | 6884.9 | 6433.6 | 5232.4 | 2745.2 | 563.0  | 340.2  | 1214.6 |
| 29°   | 6916.1 | 6454.4 | 5231.3 | 2712.4 | 546.7  | 333.7  | 1435.2 |
| 29.5° | 6946.4 | 6476.7 | 5230.3 | 2680.5 | 530.5  | 329.7  | 1604.0 |
| 30°   | 6977.2 | 6497.4 | 5227.5 | 2644.1 | 514.5  | 327.8  | 1787.8 |
| 30.5° | 7009.3 | 6519.0 | 5224.8 | 2606.1 | 503.8  | 328.2  | 1966.6 |
| 31°   | 7037.6 | 6537.9 | 5220.9 | 2572.6 | 496.1  | 325.6  | 2104.5 |
| 31.5° | 7066.2 | 6558.4 | 5217.2 | 2538.1 | 489.3  | 322.8  | 2208.7 |
| 32°   | 7093.6 | 6577.2 | 5212.2 | 2499.8 | 476.4  | 319.1  | 2261.4 |
| 32.5° | 7121.5 | 6593.8 | 5206.7 | 2466.2 | 458.7  | 315.1  | 2291.8 |
| 33°   | 7149.9 | 6613.0 | 5201.0 | 2431.3 | 441.3  | 310.6  | 2297.0 |
| 33.5° | 7176.2 | 6632.0 | 5195.5 | 2394.0 | 429.3  | 314.9  | 2219.1 |
| 34°   | 7202.8 | 6649.9 | 5188.3 | 2358.5 | 420.5  | 325.5  | 2051.7 |
| 34.5° | 7230.8 | 6668.0 | 5180.7 | 2325.9 | 413.3  | 348.7  | 1903.2 |
| 35°   | 7256.9 | 6685.5 | 5173.3 | 2292.1 | 409.8  | 540.8  | 1745.2 |
| 35.5° | 7282.9 | 6702.2 | 5165.9 | 2258.8 | 406.7  | 740.0  | 1553.9 |
| 36°   | 7308.0 | 6717.5 | 5157.9 | 2230.5 | 404.0  | 938.7  | 1337.9 |
| 36.5° | 7331.6 | 6734.8 | 5149.6 | 2203.6 | 401.5  | 1137.3 | 1110.3 |
| 37°   | 7355.0 | 6751.6 | 5140.8 | 2176.9 | 399.1  | 1335.7 | 871.3  |
| 37.5° | 7378.3 | 6766.2 | 5132.0 | 2151.4 | 395.9  | 1494.3 | 686.6  |
| 38°   | 7400.4 | 6781.4 | 5122.1 | 2125.9 | 391.5  | 1602.7 | 561.8  |
| 38.5° | 7421.5 | 6798.0 | 5111.9 | 2093.7 | 387.1  | 1667.2 | 480.5  |
| 39°   | 7442.1 | 6810.3 | 5100.9 | 2054.4 | 382.5  | 1696.8 | 419.7  |
| 39.5° | 7462.0 | 6822.6 | 5089.3 | 2005.9 | 378.0  | 1710.1 | 369.0  |
| 40°   | 7481.1 | 6836.8 | 5076.3 | 1952.7 | 373.8  | 1727.5 | 328.4  |
| 40.5° | 7498.0 | 6848.5 | 5064.0 | 1899.8 | 369.3  | 1717.4 | 303.7  |
| 41°   | 7515.2 | 6860.0 | 5050.8 | 1850.7 | 364.0  | 1661.1 | 279.5  |
| 41.5° | 7532.5 | 6872.0 | 5036.9 | 1800.7 | 357.5  | 1557.9 | 255.4  |
| 42°   | 7546.1 | 6882.3 | 5024.0 | 1753.8 | 350.5  | 1458.5 | 231.4  |
| 42.5° | 7561.8 | 6892.8 | 5011.1 | 1709.7 | 343.1  | 1358.0 | 207.4  |
| 43°   | 7575.8 | 6902.2 | 4997.5 | 1668.0 | 335.4  | 1265.4 | 189.0  |
| 43.5° | 7588.6 | 6910.1 | 4983.2 | 1626.5 | 327.5  | 1177.3 | 169.0  |
| 44°   | 7603.0 | 6917.8 | 4969.9 | 1584.6 | 319.6  | 1096.4 | 148.4  |
| 44.5° | 7615.6 | 6924.8 | 4954.0 | 1545.2 | 311.2  | 1019.1 | 130.5  |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°     | 30°    | 60°    | 90°    | 120°  | 150°  | 180°  |
|-------|--------|--------|--------|--------|-------|-------|-------|
| 45°   | 7628.3 | 6931.7 | 4938.8 | 1507.1 | 303.1 | 941.2 | 112.3 |
| 45.5° | 7638.4 | 6937.3 | 4923.2 | 1471.6 | 294.9 | 854.7 | 93.1  |
| 46°   | 7650.5 | 6941.6 | 4907.4 | 1437.7 | 286.5 | 765.2 | 73.4  |
| 46.5° | 7661.4 | 6946.7 | 4889.6 | 1404.5 | 277.8 | 680.1 | 57.0  |
| 47°   | 7671.3 | 6949.2 | 4871.5 | 1370.5 | 269.7 | 606.1 | 44.2  |
| 47.5° | 7681.1 | 6951.7 | 4853.5 | 1337.4 | 261.7 | 541.7 | 36.3  |
| 48°   | 7690.6 | 6954.9 | 4834.4 | 1303.5 | 253.9 | 483.8 | 33.0  |
| 48.5° | 7698.9 | 6955.6 | 4815.0 | 1267.8 | 239.5 | 430.2 | 30.5  |
| 49°   | 7706.7 | 6957.1 | 4795.3 | 1227.9 | 221.7 | 380.4 | 27.9  |
| 49.5° | 7714.9 | 6957.6 | 4775.4 | 1184.4 | 209.2 | 335.0 | 25.1  |
| 50°   | 7722.0 | 6956.4 | 4755.6 | 1138.3 | 199.0 | 288.8 | 22.3  |
| 50.5° | 7728.7 | 6956.1 | 4734.2 | 1084.8 | 186.8 | 242.2 | 19.9  |
| 51°   | 7734.8 | 6956.6 | 4712.3 | 1027.5 | 177.9 | 195.5 | 17.8  |
| 51.5° | 7740.4 | 6953.7 | 4690.6 | 964.2  | 170.3 | 148.9 | 15.4  |
| 52°   | 7744.7 | 6949.7 | 4668.4 | 897.1  | 159.7 | 102.2 | 12.8  |
| 52.5° | 7747.4 | 6947.4 | 4645.6 | 831.8  | 141.3 | 64.9  | 11.4  |
| 53°   | 7750.9 | 6942.5 | 4623.4 | 767.8  | 125.6 | 27.2  | 10.4  |
| 53.5° | 7751.8 | 6937.8 | 4600.4 | 707.4  | 115.8 | 19.9  | 9.5   |
| 54°   | 7753.5 | 6932.8 | 4576.4 | 657.8  | 109.9 | 18.9  | 8.7   |
| 54.5° | 7752.4 | 6927.1 | 4552.8 | 618.5  | 105.6 | 18.6  | 8.1   |
| 55°   | 7752.3 | 6919.3 | 4528.7 | 585.6  | 101.9 | 18.2  | 7.7   |
| 55.5° | 7751.3 | 6912.4 | 4502.8 | 557.9  | 98.8  | 17.7  | 7.5   |
| 56°   | 7749.2 | 6904.7 | 4476.9 | 536.0  | 95.7  | 17.2  | 7.3   |
| 56.5° | 7745.6 | 6896.2 | 4450.3 | 517.9  | 92.5  | 16.6  | 7.2   |
| 57°   | 7743.3 | 6888.8 | 4422.4 | 504.3  | 88.2  | 15.7  | 7.0   |
| 57.5° | 7737.8 | 6880.2 | 4394.7 | 493.7  | 84.4  | 14.2  | 6.9   |
| 58°   | 7733.3 | 6870.6 | 4367.1 | 486.3  | 80.8  | 13.2  | 6.8   |
| 58.5° | 7728.8 | 6863.4 | 4339.4 | 481.1  | 77.1  | 12.5  | 6.7   |
| 59°   | 7723.7 | 6854.2 | 4311.6 | 477.4  | 72.9  | 11.8  | 6.6   |
| 59.5° | 7717.4 | 6843.7 | 4283.9 | 474.6  | 67.8  | 11.1  | 6.6   |
| 60°   | 7711.7 | 6835.8 | 4256.2 | 471.1  | 62.5  | 10.4  | 6.6   |
| 60.5° | 7705.1 | 6827.0 | 4225.9 | 466.9  | 58.9  | 9.9   | 6.6   |
| 61°   | 7697.6 | 6815.7 | 4196.0 | 463.3  | 55.9  | 9.4   | 6.7   |
| 61.5° | 7690.3 | 6805.3 | 4166.4 | 459.4  | 53.1  | 8.9   | 6.9   |
| 62°   | 7682.2 | 6795.7 | 4134.3 | 455.3  | 50.2  | 8.4   | 7.0   |
| 62.5° | 7675.3 | 6784.3 | 4101.3 | 451.4  | 47.0  | 8.0   | 7.2   |
| 63°   | 7667.4 | 6772.8 | 4072.2 | 445.7  | 43.5  | 7.7   | 7.3   |
| 63.5° | 7659.5 | 6762.2 | 4040.1 | 438.7  | 39.3  | 7.3   | 7.5   |
| 64°   | 7652.0 | 6748.3 | 4009.1 | 430.9  | 34.8  | 7.0   | 7.7   |
| 64.5° | 7643.7 | 6736.5 | 3979.6 | 421.8  | 30.2  | 6.7   | 7.9   |
| 65°   | 7634.7 | 6722.8 | 3951.4 | 412.0  | 25.4  | 6.5   | 8.1   |
| 65.5° | 7628.0 | 6708.4 | 3922.9 | 402.1  | 21.1  | 6.3   | 8.3   |
| 66°   | 7619.6 | 6694.4 | 3895.1 | 393.4  | 17.0  | 6.1   | 8.5   |
| 66.5° | 7613.9 | 6679.7 | 3867.8 | 383.9  | 13.0  | 6.0   | 8.7   |
| 67°   | 7606.2 | 6662.5 | 3840.0 | 374.4  | 9.8   | 5.9   | 8.9   |

REPORT NUMBER: P1197133

CATALOG NUMBER: AWP150S-BZ-BZ-HIGH-3000K-POSITION 45

**CANDELA DISTRIBUTION (continued):**

|       | 0°     | 30°    | 60°    | 90°   | 120° | 150° | 180° |
|-------|--------|--------|--------|-------|------|------|------|
| 67.5° | 7600.4 | 6644.9 | 3811.9 | 363.7 | 8.2  | 5.9  | 9.0  |
| 68°   | 7593.0 | 6628.8 | 3783.5 | 352.6 | 7.8  | 5.9  | 9.2  |
| 68.5° | 7584.6 | 6610.2 | 3753.3 | 342.5 | 7.7  | 5.9  | 9.5  |
| 69°   | 7578.8 | 6592.1 | 3724.6 | 333.9 | 7.6  | 5.9  | 9.7  |
| 69.5° | 7570.3 | 6574.7 | 3692.4 | 324.8 | 7.5  | 6.0  | 10.0 |
| 70°   | 7562.9 | 6556.0 | 3657.4 | 314.1 | 7.3  | 6.1  | 10.2 |
| 70.5° | 7556.1 | 6538.8 | 3623.2 | 303.1 | 6.8  | 6.2  | 10.5 |
| 71°   | 7551.4 | 6521.1 | 3587.9 | 292.5 | 6.5  | 6.4  | 10.8 |
| 71.5° | 7544.6 | 6504.0 | 3550.8 | 282.2 | 6.4  | 6.5  | 11.0 |
| 72°   | 7538.2 | 6489.3 | 3512.9 | 272.0 | 6.4  | 6.7  | 11.3 |
| 72.5° | 7534.3 | 6474.4 | 3475.2 | 261.7 | 6.4  | 6.9  | 11.5 |
| 73°   | 7531.4 | 6459.5 | 3434.0 | 251.5 | 6.4  | 7.2  | 11.7 |
| 73.5° | 7528.4 | 6445.3 | 3393.0 | 241.3 | 6.4  | 7.4  | 12.0 |
| 74°   | 7525.5 | 6433.6 | 3349.1 | 230.3 | 6.4  | 7.6  | 12.2 |
| 74.5° | 7523.6 | 6421.7 | 3304.1 | 219.2 | 6.4  | 7.9  | 12.5 |
| 75°   | 7524.2 | 6411.4 | 3259.7 | 207.3 | 6.5  | 8.1  | 12.8 |
| 75.5° | 7522.3 | 6404.0 | 3217.1 | 194.9 | 6.5  | 8.3  | 13.0 |
| 76°   | 7521.3 | 6397.1 | 3173.4 | 182.5 | 6.5  | 8.5  | 13.3 |
| 76.5° | 7520.3 | 6390.6 | 3131.5 | 170.6 | 6.6  | 8.7  | 13.5 |
| 77°   | 7517.4 | 6384.5 | 3089.3 | 158.3 | 6.6  | 8.9  | 13.7 |
| 77.5° | 7514.5 | 6379.4 | 3044.7 | 146.2 | 6.7  | 9.1  | 13.9 |
| 78°   | 7510.5 | 6373.1 | 2992.9 | 134.3 | 6.7  | 9.3  | 14.1 |
| 78.5° | 7502.4 | 6367.7 | 2942.7 | 123.2 | 6.8  | 9.5  | 14.3 |
| 79°   | 7494.3 | 6360.2 | 2887.7 | 112.7 | 6.8  | 9.7  | 14.6 |
| 79.5° | 7485.8 | 6349.0 | 2834.5 | 102.7 | 6.9  | 9.9  | 14.8 |
| 80°   | 7473.6 | 6337.9 | 2779.6 | 92.3  | 7.0  | 10.1 | 15.0 |
| 80.5° | 7460.2 | 6327.1 | 2728.3 | 82.8  | 7.1  | 10.3 | 15.3 |
| 81°   | 7443.0 | 6312.5 | 2674.1 | 73.9  | 7.2  | 10.5 | 15.5 |
| 81.5° | 7426.1 | 6297.8 | 2624.6 | 66.0  | 7.3  | 10.7 | 15.7 |
| 82°   | 7409.4 | 6283.7 | 2571.6 | 59.0  | 7.4  | 10.9 | 15.9 |
| 82.5° | 7393.7 | 6266.7 | 2513.6 | 53.0  | 7.5  | 11.1 | 16.1 |
| 83°   | 7375.3 | 6247.1 | 2453.1 | 47.8  | 7.6  | 11.3 | 16.3 |
| 83.5° | 7357.9 | 6225.5 | 2394.6 | 42.8  | 7.7  | 11.6 | 16.5 |
| 84°   | 7342.6 | 6207.1 | 2338.2 | 38.2  | 7.7  | 11.8 | 16.7 |
| 84.5° | 7319.6 | 6192.6 | 2285.6 | 34.2  | 7.9  | 12.0 | 16.9 |
| 85°   | 7293.3 | 6181.3 | 2236.2 | 30.4  | 8.0  | 12.2 | 17.1 |
| 85.5° | 7265.6 | 6167.4 | 2188.0 | 27.2  | 8.1  | 12.4 | 17.3 |
| 86°   | 7230.5 | 6156.0 | 2144.1 | 24.3  | 8.3  | 12.6 | 17.5 |
| 86.5° | 7191.3 | 6146.3 | 2100.3 | 21.5  | 8.4  | 12.8 | 17.7 |
| 87°   | 7152.0 | 6138.3 | 2063.3 | 18.8  | 8.5  | 13.0 | 17.9 |
| 87.5° | 7107.1 | 6130.5 | 2029.2 | 16.5  | 8.7  | 13.1 | 18.0 |
| 88°   | 7058.8 | 6123.8 | 1995.6 | 14.2  | 8.8  | 13.3 | 18.2 |
| 88.5° | 7011.8 | 6116.8 | 1962.3 | 12.1  | 9.0  | 13.5 | 18.3 |
| 89°   | 6960.8 | 6107.1 | 1934.5 | 10.5  | 9.1  | 13.7 | 18.5 |
| 89.5° | 6908.2 | 6097.9 | 1918.1 | 9.1   | 9.2  | 13.9 | 18.6 |

REPORT NUMBER: P1197133

CATALOG NUMBER: AWP150S-BZ-BZ-HIGH-3000K-POSITION 45

**CANDELA DISTRIBUTION (continued):**

|        | 0°     | 30°    | 60°    | 90° | 120° | 150° | 180° |
|--------|--------|--------|--------|-----|------|------|------|
| 90°    | 6858.4 | 6095.7 | 1910.6 | 7.8 | 9.3  | 14.0 | 18.7 |
| 90.5°  | 6813.9 | 6107.0 | 1916.4 | 7.0 | 9.3  | 14.2 | 18.8 |
| 91°    | 6769.2 | 6137.2 | 1939.7 | 6.8 | 9.4  | 14.3 | 18.9 |
| 91.5°  | 6729.4 | 6187.8 | 1978.1 | 6.7 | 9.5  | 14.5 | 19.1 |
| 92°    | 6695.7 | 6246.5 | 2036.4 | 6.6 | 9.6  | 14.6 | 19.2 |
| 92.5°  | 6652.2 | 6279.1 | 2112.6 | 6.5 | 9.8  | 14.8 | 19.3 |
| 93°    | 6558.0 | 6283.7 | 2180.3 | 6.5 | 9.9  | 14.9 | 19.5 |
| 93.5°  | 6414.6 | 6232.7 | 2219.2 | 6.4 | 10.0 | 15.1 | 19.6 |
| 94°    | 6232.8 | 6142.7 | 2188.3 | 6.3 | 10.1 | 15.3 | 19.8 |
| 94.5°  | 6027.9 | 6008.3 | 2097.6 | 6.3 | 10.2 | 15.4 | 19.9 |
| 95°    | 5862.0 | 5858.8 | 1958.7 | 6.2 | 10.4 | 15.6 | 20.0 |
| 95.5°  | 5775.2 | 5708.9 | 1789.6 | 6.2 | 10.5 | 15.7 | 20.1 |
| 96°    | 5813.4 | 5523.6 | 1638.7 | 6.1 | 10.6 | 15.9 | 20.2 |
| 96.5°  | 5927.4 | 5245.5 | 1493.8 | 6.0 | 10.7 | 16.1 | 20.3 |
| 97°    | 6048.5 | 4904.1 | 1333.6 | 5.9 | 10.8 | 16.3 | 20.4 |
| 97.5°  | 6156.4 | 4567.6 | 1151.0 | 5.9 | 10.9 | 16.4 | 20.5 |
| 98°    | 5954.4 | 4224.2 | 969.3  | 5.8 | 11.0 | 16.6 | 20.6 |
| 98.5°  | 5753.6 | 3958.8 | 821.2  | 5.8 | 11.1 | 16.8 | 20.7 |
| 99°    | 5554.7 | 3799.1 | 719.6  | 5.8 | 11.2 | 16.9 | 20.7 |
| 99.5°  | 5356.2 | 3669.9 | 618.0  | 5.7 | 11.3 | 17.0 | 20.8 |
| 100°   | 5150.2 | 3646.9 | 516.4  | 5.6 | 11.4 | 17.1 | 20.9 |
| 100.5° | 4785.6 | 3822.5 | 414.8  | 5.5 | 11.5 | 17.2 | 20.9 |
| 101°   | 4468.1 | 4140.5 | 315.9  | 5.5 | 11.6 | 17.3 | 21.0 |
| 101.5° | 4182.7 | 4407.4 | 287.2  | 5.5 | 11.7 | 17.4 | 21.0 |
| 102°   | 3993.7 | 4364.9 | 294.5  | 5.4 | 11.8 | 17.5 | 21.1 |
| 102.5° | 4024.6 | 3896.2 | 316.2  | 5.4 | 11.8 | 17.7 | 21.2 |
| 103°   | 4225.0 | 3029.1 | 307.4  | 5.4 | 11.9 | 17.8 | 21.2 |
| 103.5° | 4490.8 | 2704.8 | 298.3  | 5.4 | 12.0 | 18.0 | 21.3 |
| 104°   | 4530.3 | 2392.6 | 287.5  | 5.4 | 12.1 | 18.1 | 21.4 |
| 104.5° | 4104.4 | 2080.2 | 275.7  | 5.4 | 12.2 | 18.2 | 21.4 |
| 105°   | 3128.6 | 1767.3 | 226.2  | 5.4 | 12.3 | 18.3 | 21.4 |
| 105.5° | 2552.0 | 1453.6 | 138.2  | 5.4 | 12.4 | 18.4 | 21.5 |
| 106°   | 1975.4 | 1141.0 | 107.8  | 5.4 | 12.5 | 18.5 | 21.5 |
| 106.5° | 1399.0 | 828.6  | 93.2   | 5.4 | 12.6 | 18.7 | 21.6 |
| 107°   | 822.4  | 516.3  | 78.4   | 5.4 | 12.7 | 18.7 | 21.6 |
| 107.5° | 253.7  | 203.9  | 66.8   | 5.4 | 12.8 | 18.8 | 21.6 |
| 108°   | 242.9  | 200.4  | 56.5   | 5.4 | 12.9 | 18.9 | 21.6 |
| 108.5° | 241.9  | 193.5  | 47.1   | 5.5 | 12.9 | 18.9 | 21.7 |
| 109°   | 250.3  | 176.6  | 38.3   | 5.5 | 13.0 | 19.0 | 21.7 |
| 109.5° | 258.4  | 158.5  | 31.2   | 5.6 | 13.1 | 19.0 | 21.7 |
| 110°   | 265.5  | 141.4  | 25.4   | 5.7 | 13.1 | 19.1 | 21.8 |
| 110.5° | 257.4  | 123.7  | 20.8   | 5.7 | 13.2 | 19.2 | 21.8 |
| 111°   | 227.0  | 111.0  | 17.4   | 5.8 | 13.3 | 19.2 | 21.8 |
| 111.5° | 202.0  | 103.2  | 14.3   | 5.8 | 13.3 | 19.3 | 21.9 |
| 112°   | 188.8  | 99.2   | 12.2   | 5.9 | 13.4 | 19.3 | 21.9 |

REPORT NUMBER: P1197133

CATALOG NUMBER: AWP150S-BZ-BZ-HIGH-3000K-POSITION 45

**CANDELA DISTRIBUTION (continued):**

|        | 0°    | 30°   | 60°  | 90° | 120° | 150° | 180° |
|--------|-------|-------|------|-----|------|------|------|
| 112.5° | 174.8 | 98.2  | 10.9 | 6.0 | 13.5 | 19.4 | 21.9 |
| 113°   | 159.2 | 98.6  | 9.7  | 6.1 | 13.5 | 19.5 | 21.9 |
| 113.5° | 151.5 | 101.6 | 8.5  | 6.1 | 13.6 | 19.5 | 21.9 |
| 114°   | 149.1 | 106.7 | 7.5  | 6.2 | 13.7 | 19.5 | 21.9 |
| 114.5° | 149.7 | 111.3 | 6.7  | 6.3 | 13.7 | 19.6 | 21.9 |
| 115°   | 150.0 | 114.2 | 6.2  | 6.4 | 13.8 | 19.6 | 21.9 |
| 115.5° | 147.9 | 114.5 | 5.8  | 6.4 | 13.9 | 19.6 | 21.9 |
| 116°   | 147.5 | 110.1 | 5.5  | 6.5 | 13.9 | 19.7 | 21.9 |
| 116.5° | 147.3 | 95.5  | 5.1  | 6.6 | 14.0 | 19.7 | 21.9 |
| 117°   | 146.2 | 77.7  | 4.7  | 6.7 | 14.1 | 19.7 | 22.0 |
| 117.5° | 142.8 | 54.0  | 4.4  | 6.8 | 14.1 | 19.8 | 22.0 |
| 118°   | 136.3 | 31.0  | 4.2  | 6.8 | 14.2 | 19.8 | 22.0 |
| 118.5° | 125.9 | 20.0  | 3.8  | 6.9 | 14.2 | 19.9 | 22.0 |
| 119°   | 111.6 | 16.4  | 3.5  | 7.0 | 14.3 | 19.9 | 22.0 |
| 119.5° | 93.2  | 13.7  | 3.3  | 7.1 | 14.3 | 19.9 | 22.0 |
| 120°   | 68.1  | 10.9  | 3.2  | 7.1 | 14.4 | 20.0 | 22.0 |
| 120.5° | 41.9  | 8.3   | 3.0  | 7.2 | 14.4 | 20.0 | 22.0 |
| 121°   | 23.9  | 6.1   | 2.9  | 7.3 | 14.5 | 20.0 | 22.0 |
| 121.5° | 16.7  | 4.4   | 2.8  | 7.4 | 14.5 | 20.0 | 21.9 |
| 122°   | 13.1  | 3.3   | 2.7  | 7.5 | 14.6 | 20.0 | 21.9 |
| 122.5° | 9.9   | 2.6   | 2.6  | 7.6 | 14.6 | 20.1 | 21.9 |
| 123°   | 7.4   | 2.1   | 2.5  | 7.6 | 14.7 | 20.1 | 21.9 |
| 123.5° | 5.4   | 1.9   | 2.5  | 7.7 | 14.7 | 20.1 | 21.9 |
| 124°   | 4.1   | 1.8   | 2.5  | 7.8 | 14.8 | 20.1 | 21.9 |
| 124.5° | 3.1   | 1.7   | 2.5  | 7.9 | 14.8 | 20.1 | 21.9 |
| 125°   | 2.4   | 1.7   | 2.5  | 7.9 | 14.8 | 20.1 | 21.9 |
| 125.5° | 2.0   | 1.6   | 2.5  | 8.0 | 14.9 | 20.1 | 21.8 |
| 126°   | 1.9   | 1.6   | 2.6  | 8.1 | 14.9 | 20.1 | 21.8 |
| 126.5° | 1.8   | 1.6   | 2.6  | 8.2 | 15.0 | 20.1 | 21.8 |
| 127°   | 1.7   | 1.6   | 2.7  | 8.3 | 15.0 | 20.1 | 21.8 |
| 127.5° | 1.7   | 1.6   | 2.8  | 8.3 | 15.1 | 20.1 | 21.8 |
| 128°   | 1.7   | 1.5   | 2.9  | 8.4 | 15.1 | 20.1 | 21.7 |
| 128.5° | 1.7   | 1.5   | 2.9  | 8.5 | 15.1 | 20.1 | 21.7 |
| 129°   | 1.7   | 1.6   | 3.0  | 8.6 | 15.2 | 20.1 | 21.7 |
| 129.5° | 1.7   | 1.6   | 3.1  | 8.7 | 15.2 | 20.1 | 21.6 |
| 130°   | 1.6   | 1.5   | 3.2  | 8.7 | 15.3 | 20.1 | 21.6 |
| 130.5° | 1.6   | 1.5   | 3.3  | 8.9 | 15.3 | 20.1 | 21.5 |
| 131°   | 1.6   | 1.4   | 3.4  | 8.9 | 15.3 | 20.1 | 21.5 |
| 131.5° | 1.6   | 1.4   | 3.4  | 9.0 | 15.4 | 20.1 | 21.4 |
| 132°   | 1.6   | 1.4   | 3.5  | 9.1 | 15.4 | 20.1 | 21.4 |
| 132.5° | 1.6   | 1.4   | 3.6  | 9.2 | 15.5 | 20.1 | 21.3 |
| 133°   | 1.5   | 1.4   | 3.7  | 9.2 | 15.5 | 20.1 | 21.3 |
| 133.5° | 1.4   | 1.4   | 3.8  | 9.3 | 15.5 | 20.1 | 21.2 |
| 134°   | 1.3   | 1.4   | 3.9  | 9.4 | 15.6 | 20.1 | 21.2 |
| 134.5° | 1.3   | 1.4   | 4.0  | 9.5 | 15.6 | 20.1 | 21.1 |

REPORT NUMBER: P1197133

CATALOG NUMBER: AWP150S-BZ-BZ-HIGH-3000K-POSITION 45

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 30° | 60° | 90°  | 120° | 150° | 180° |
|--------|-----|-----|-----|------|------|------|------|
| 135°   | 1.3 | 1.4 | 4.1 | 9.6  | 15.6 | 20.1 | 21.1 |
| 135.5° | 1.2 | 1.4 | 4.2 | 9.6  | 15.7 | 20.0 | 21.1 |
| 136°   | 1.2 | 1.4 | 4.3 | 9.7  | 15.7 | 20.0 | 21.1 |
| 136.5° | 1.2 | 1.4 | 4.4 | 9.8  | 15.7 | 20.0 | 21.1 |
| 137°   | 1.2 | 1.4 | 4.5 | 9.9  | 15.7 | 20.0 | 21.0 |
| 137.5° | 1.2 | 1.4 | 4.6 | 9.9  | 15.8 | 20.0 | 21.0 |
| 138°   | 1.2 | 1.5 | 4.7 | 10.0 | 15.8 | 19.9 | 21.0 |
| 138.5° | 1.2 | 1.5 | 4.8 | 10.1 | 15.8 | 19.9 | 20.9 |
| 139°   | 1.2 | 1.6 | 4.9 | 10.2 | 15.9 | 19.9 | 20.8 |
| 139.5° | 1.2 | 1.6 | 5.0 | 10.2 | 15.9 | 19.9 | 20.8 |
| 140°   | 1.3 | 1.6 | 5.1 | 10.3 | 15.9 | 19.8 | 20.7 |
| 140.5° | 1.3 | 1.7 | 5.2 | 10.4 | 15.9 | 19.8 | 20.6 |
| 141°   | 1.3 | 1.8 | 5.3 | 10.5 | 15.9 | 19.8 | 20.5 |
| 141.5° | 1.3 | 1.8 | 5.4 | 10.5 | 16.0 | 19.8 | 20.4 |
| 142°   | 1.4 | 1.9 | 5.5 | 10.6 | 16.0 | 19.7 | 20.3 |
| 142.5° | 1.4 | 1.9 | 5.6 | 10.7 | 16.0 | 19.7 | 20.2 |
| 143°   | 1.5 | 2.0 | 5.7 | 10.8 | 16.0 | 19.6 | 20.1 |
| 143.5° | 1.5 | 2.1 | 5.9 | 10.8 | 16.0 | 19.6 | 20.0 |
| 144°   | 1.5 | 2.1 | 5.9 | 10.9 | 16.0 | 19.5 | 19.9 |
| 144.5° | 1.6 | 2.2 | 6.0 | 11.0 | 16.0 | 19.5 | 19.8 |
| 145°   | 1.6 | 2.3 | 6.2 | 11.0 | 16.0 | 19.4 | 19.6 |
| 145.5° | 1.7 | 2.3 | 6.3 | 11.1 | 16.0 | 19.4 | 19.5 |
| 146°   | 1.7 | 2.4 | 6.4 | 11.2 | 16.0 | 19.3 | 19.4 |
| 146.5° | 1.8 | 2.5 | 6.5 | 11.2 | 16.0 | 19.2 | 19.3 |
| 147°   | 1.8 | 2.6 | 6.6 | 11.3 | 16.0 | 19.2 | 19.1 |
| 147.5° | 1.9 | 2.7 | 6.7 | 11.4 | 16.0 | 19.1 | 19.0 |
| 148°   | 1.9 | 2.8 | 6.8 | 11.5 | 16.0 | 19.1 | 18.9 |
| 148.5° | 2.0 | 2.9 | 6.9 | 11.5 | 16.0 | 19.0 | 18.8 |
| 149°   | 2.0 | 2.9 | 7.0 | 11.6 | 16.0 | 19.0 | 18.7 |
| 149.5° | 2.1 | 3.0 | 7.1 | 11.6 | 16.0 | 18.9 | 18.6 |
| 150°   | 2.1 | 3.1 | 7.2 | 11.7 | 16.1 | 18.9 | 18.5 |
| 150.5° | 2.2 | 3.2 | 7.3 | 11.8 | 16.1 | 18.9 | 18.3 |
| 151°   | 2.2 | 3.3 | 7.4 | 11.8 | 16.1 | 18.8 | 18.2 |
| 151.5° | 2.3 | 3.4 | 7.5 | 11.9 | 16.1 | 18.8 | 18.0 |
| 152°   | 2.3 | 3.5 | 7.6 | 12.0 | 16.1 | 18.8 | 17.9 |
| 152.5° | 2.4 | 3.6 | 7.7 | 12.0 | 16.1 | 18.7 | 17.7 |
| 153°   | 2.4 | 3.7 | 7.8 | 12.1 | 16.1 | 18.7 | 17.6 |
| 153.5° | 2.5 | 3.9 | 7.9 | 12.2 | 16.1 | 18.7 | 17.5 |
| 154°   | 2.5 | 4.0 | 8.0 | 12.2 | 16.1 | 18.6 | 17.3 |
| 154.5° | 2.6 | 4.1 | 8.1 | 12.3 | 16.1 | 18.6 | 17.1 |
| 155°   | 2.7 | 4.2 | 8.3 | 12.3 | 16.1 | 18.5 | 17.0 |
| 155.5° | 2.8 | 4.3 | 8.4 | 12.4 | 16.1 | 18.4 | 16.8 |
| 156°   | 2.8 | 4.4 | 8.5 | 12.4 | 16.1 | 18.3 | 16.7 |
| 156.5° | 2.9 | 4.6 | 8.6 | 12.5 | 16.1 | 18.3 | 16.5 |
| 157°   | 3.0 | 4.7 | 8.7 | 12.5 | 16.1 | 18.2 | 16.3 |

REPORT NUMBER: P1197133

CATALOG NUMBER: AWP150S-BZ-BZ-HIGH-3000K-POSITION 45

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 30°  | 60°  | 90°  | 120° | 150° | 180° |
|--------|-----|------|------|------|------|------|------|
| 157.5° | 3.1 | 4.8  | 8.8  | 12.6 | 16.1 | 18.1 | 16.2 |
| 158°   | 3.2 | 4.9  | 8.9  | 12.6 | 16.0 | 18.0 | 16.1 |
| 158.5° | 3.3 | 5.0  | 9.0  | 12.7 | 16.0 | 17.9 | 16.0 |
| 159°   | 3.4 | 5.2  | 9.1  | 12.8 | 16.0 | 17.8 | 15.8 |
| 159.5° | 3.5 | 5.3  | 9.2  | 12.8 | 16.0 | 17.8 | 15.6 |
| 160°   | 3.7 | 5.4  | 9.3  | 12.9 | 16.0 | 17.7 | 15.4 |
| 160.5° | 3.8 | 5.6  | 9.5  | 12.9 | 16.0 | 17.6 | 15.3 |
| 161°   | 3.9 | 5.7  | 9.6  | 12.9 | 15.9 | 17.5 | 15.1 |
| 161.5° | 4.1 | 5.9  | 9.7  | 13.0 | 15.9 | 17.4 | 15.0 |
| 162°   | 4.2 | 6.0  | 9.8  | 13.1 | 15.9 | 17.3 | 14.8 |
| 162.5° | 4.3 | 6.2  | 9.9  | 13.1 | 15.9 | 17.2 | 14.6 |
| 163°   | 4.5 | 6.4  | 10.0 | 13.1 | 15.9 | 17.1 | 14.4 |
| 163.5° | 4.6 | 6.5  | 10.1 | 13.2 | 15.9 | 17.0 | 14.2 |
| 164°   | 4.8 | 6.7  | 10.2 | 13.2 | 15.9 | 17.0 | 14.0 |
| 164.5° | 4.9 | 6.9  | 10.3 | 13.3 | 15.8 | 16.9 | 13.8 |
| 165°   | 5.0 | 7.0  | 10.4 | 13.3 | 15.8 | 16.8 | 13.6 |
| 165.5° | 5.2 | 7.2  | 10.5 | 13.4 | 15.8 | 16.7 | 13.4 |
| 166°   | 5.3 | 7.3  | 10.6 | 13.4 | 15.8 | 16.6 | 13.3 |
| 166.5° | 5.4 | 7.5  | 10.7 | 13.5 | 15.7 | 16.6 | 13.1 |
| 167°   | 5.5 | 7.6  | 10.8 | 13.5 | 15.7 | 16.5 | 13.0 |
| 167.5° | 5.7 | 7.8  | 10.9 | 13.6 | 15.7 | 16.4 | 12.8 |
| 168°   | 5.8 | 8.0  | 11.0 | 13.6 | 15.7 | 16.3 | 12.6 |
| 168.5° | 5.9 | 8.1  | 11.1 | 13.7 | 15.6 | 16.2 | 12.4 |
| 169°   | 6.0 | 8.3  | 11.2 | 13.7 | 15.6 | 16.1 | 12.3 |
| 169.5° | 6.2 | 8.4  | 11.3 | 13.7 | 15.6 | 16.1 | 12.1 |
| 170°   | 6.3 | 8.6  | 11.4 | 13.8 | 15.5 | 16.0 | 12.0 |
| 170.5° | 6.4 | 8.7  | 11.5 | 13.8 | 15.5 | 15.9 | 11.8 |
| 171°   | 6.5 | 8.8  | 11.6 | 13.8 | 15.5 | 15.7 | 11.6 |
| 171.5° | 6.6 | 8.9  | 11.7 | 13.9 | 15.4 | 15.6 | 11.4 |
| 172°   | 6.7 | 9.1  | 11.8 | 13.9 | 15.3 | 15.5 | 11.2 |
| 172.5° | 6.9 | 9.3  | 11.9 | 13.9 | 15.3 | 15.4 | 11.1 |
| 173°   | 7.0 | 9.4  | 12.0 | 14.0 | 15.3 | 15.3 | 10.9 |
| 173.5° | 7.1 | 9.5  | 12.1 | 14.0 | 15.2 | 15.2 | 10.7 |
| 174°   | 7.2 | 9.6  | 12.2 | 14.0 | 15.2 | 15.1 | 10.5 |
| 174.5° | 7.3 | 9.8  | 12.3 | 14.0 | 15.1 | 15.0 | 10.4 |
| 175°   | 7.4 | 9.9  | 12.4 | 14.1 | 15.1 | 14.9 | 10.2 |
| 175.5° | 7.6 | 10.0 | 12.4 | 14.1 | 15.0 | 14.7 | 10.0 |
| 176°   | 7.7 | 10.2 | 12.5 | 14.1 | 15.0 | 14.6 | 9.9  |
| 176.5° | 7.8 | 10.3 | 12.6 | 14.1 | 14.9 | 14.6 | 9.7  |
| 177°   | 8.0 | 10.4 | 12.7 | 14.2 | 14.9 | 14.5 | 9.6  |
| 177.5° | 8.1 | 10.6 | 12.8 | 14.2 | 14.8 | 14.4 | 9.4  |
| 178°   | 8.2 | 10.7 | 12.9 | 14.2 | 14.8 | 14.2 | 9.3  |
| 178.5° | 8.4 | 10.8 | 13.0 | 14.2 | 14.7 | 14.1 | 9.1  |
| 179°   | 8.5 | 10.9 | 13.0 | 14.2 | 14.7 | 14.0 | 9.0  |
| 179.5° | 8.6 | 11.0 | 13.1 | 14.2 | 14.6 | 13.9 | 8.9  |



REPORT NUMBER: P1197133  
CATALOG NUMBER: AWPf150S-BZ-BZ-HIGH-3000K-POSITION 45

CANDELA DISTRIBUTION (continued):

|      | 0°  | 30° | 60° | 90° | 120° | 150° | 180° |
|------|-----|-----|-----|-----|------|------|------|
| 180° | 8.7 | 8.7 | 8.7 | 8.7 | 8.7  | 8.7  | 8.7  |

(END OF REPORT)