

Scaled data based on original data using  
LM-31-95 IESNA Approved Method for Photometric Testing of Roadway Luminaires  
Using Incandescent Filament and High Intensity Discharge Lamps

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: P242077

Luminaire Tested: **AL4850PCBZ**

Test Date: 04/17/18

**Test Information**

Test Method: LM-31-95  
Report Number: P242077  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1804-717-1)  
Test Lab: INNOVATION CENTER(G2)  
Test Date: 04/17/18  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: AL4850LPCBZ  
Description: AREA and WALL LIGHT LED BARNLIGHT, 4750LM  
Light Source: (1) 5000K CCT, 70 CRI LEDS  
A19A-W5SS3913-C7  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5400.5 lumens  
Efficiency: N/A  
Efficacy: 130.1 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.58' x H: 0.25')  
IES Classification: Type V - Short - Cutoff  
BUG Rating: B3 - U2 - G1

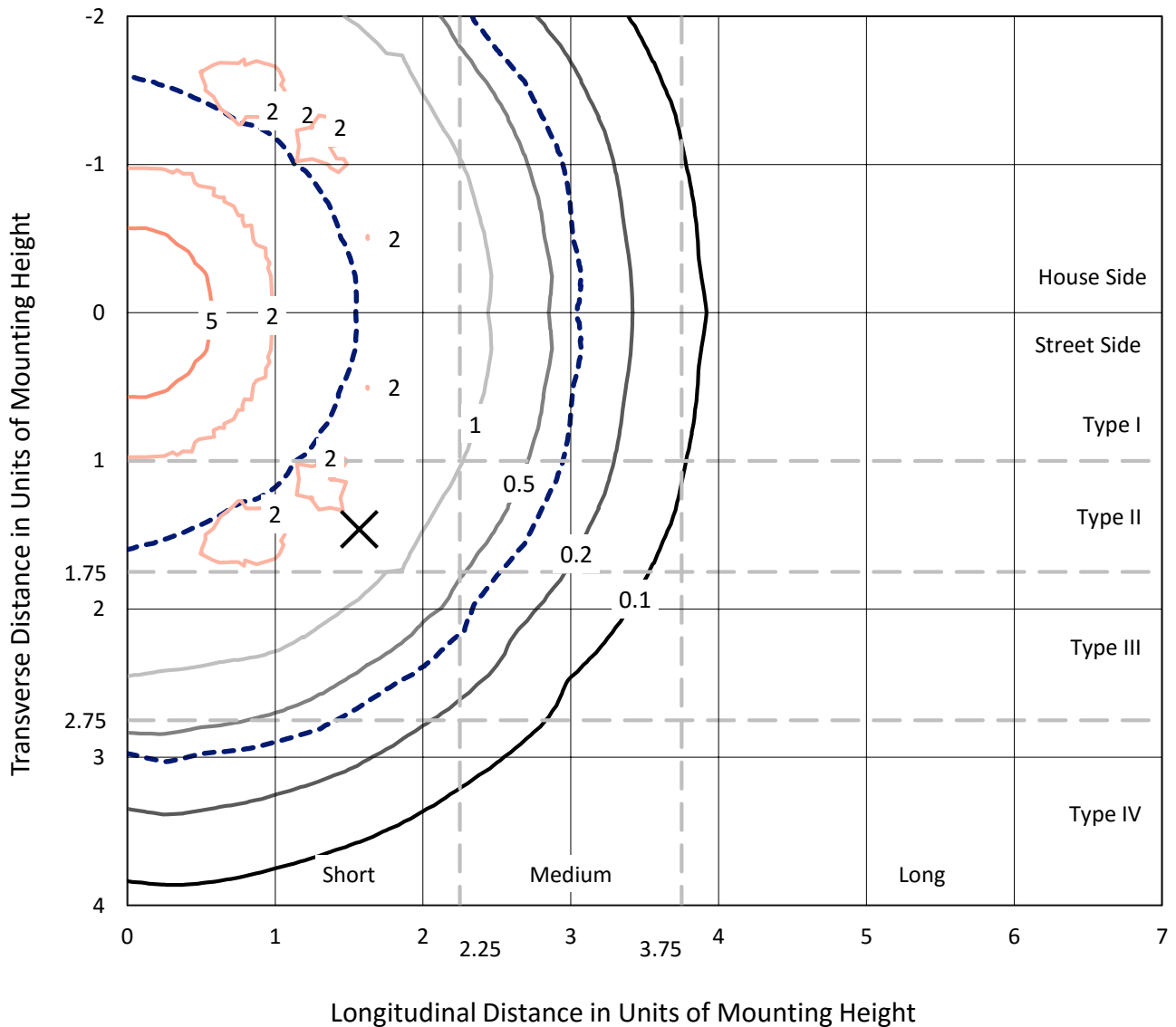
Input Watts (W): 41.5  
Input Voltage (V): 120.0  
Input Current (A<sub>in</sub>): 0.349  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): 25.1  
Test Distance: 25 FT



REPORT NUMBER: P242077  
 CATALOG NUMBER: AL4850LPCBZ

### Iso-Footcandle Lines of Horizontal Illumination

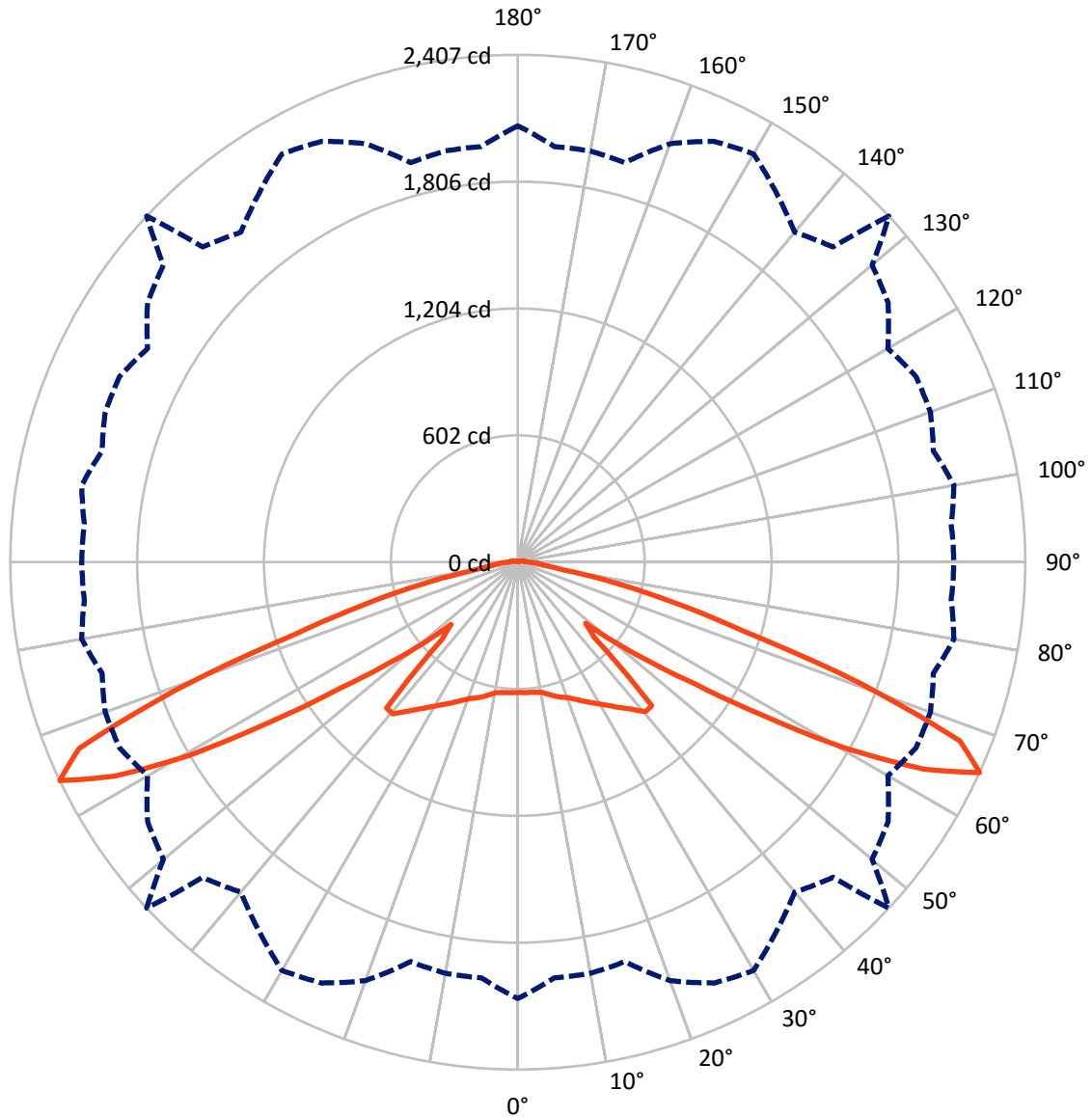
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.2 fc  
 Type V - Short - Cutoff

REPORT NUMBER: P242077  
CATALOG NUMBER: AL4850LPCBZ

### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical



REPORT NUMBER: P242077  
 CATALOG NUMBER: AL4850LPCBZ

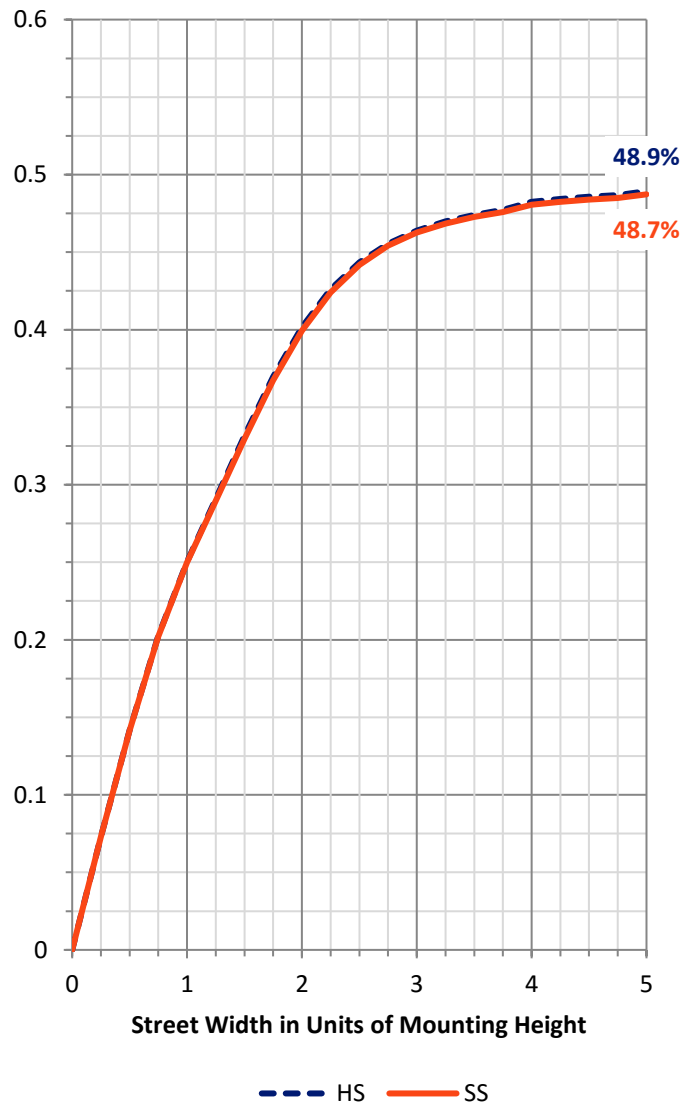
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2656.9   | 43.4   | 2700.2 |
|                    | % Fixture | 49.2     | 0.8    | 50.0   |
| <b>Street Side</b> | Lumens    | 2656.9   | 43.4   | 2700.2 |
|                    | % Fixture | 49.2     | 0.8    | 50.0   |
| <b>Total</b>       | Lumens    | 5313.7   | 86.8   | 5400.5 |
|                    | % Fixture | 98.4     | 1.6    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 59.2   | 1.1       |
| 10°-20°   | 185.2  | 3.4       |
| 20°-30°   | 335.4  | 6.2       |
| 30°-40°   | 528.5  | 9.8       |
| 40°-50°   | 472.6  | 8.8       |
| 50°-60°   | 899.7  | 16.7      |
| 60°-70°   | 1883.1 | 34.9      |
| 70°-80°   | 829.0  | 15.4      |
| 80°-90°   | 120.9  | 2.2       |
| 90°-100°  | 37.6   | 0.7       |
| 100°-110° | 23.7   | 0.4       |
| 110°-120° | 10.5   | 0.2       |
| 120°-130° | 7.2    | 0.1       |
| 130°-140° | 4.5    | 0.1       |
| 140°-150° | 2.3    | 0.0       |
| 150°-160° | 0.8    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 5313.7 | 98.4      |
| 0°-180°   | 5400.5 | 100.0     |



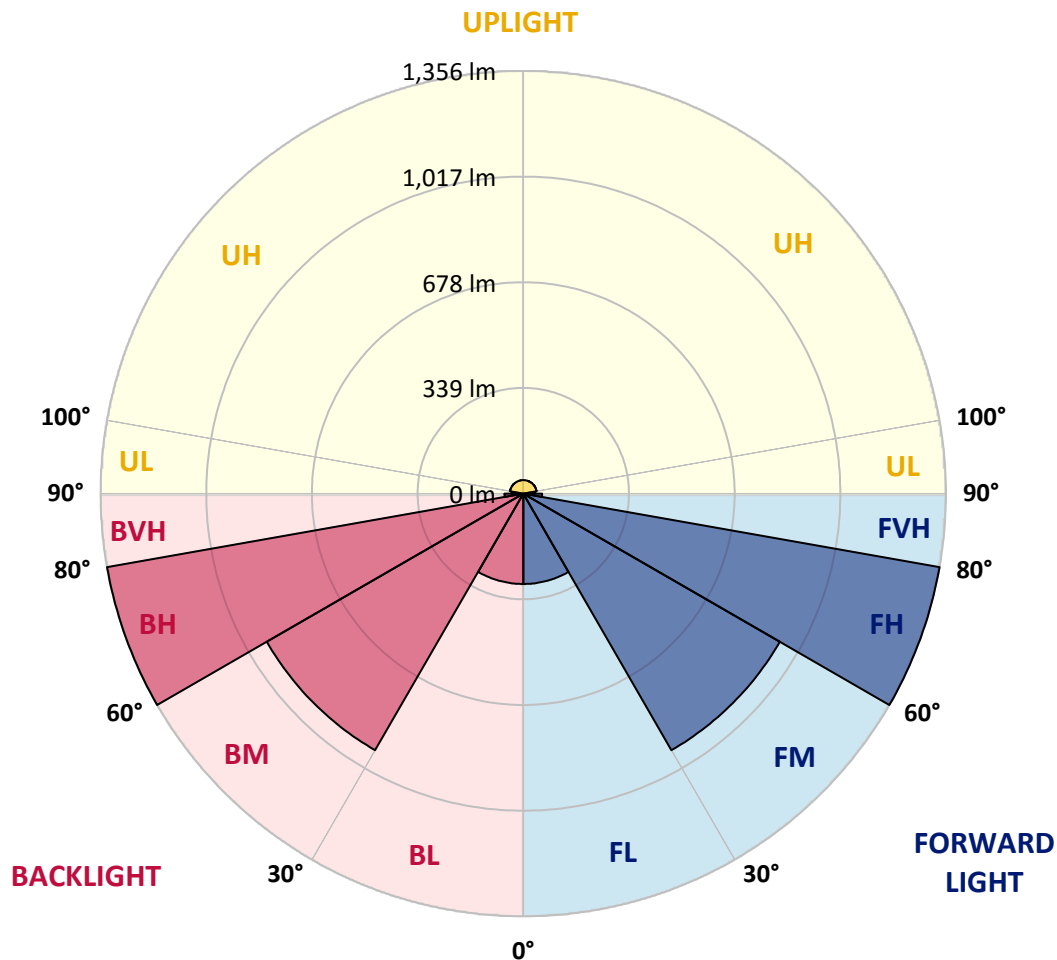
REPORT NUMBER: P242077  
 CATALOG NUMBER: AL4850LPCBZ

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |       |         |
|----------------|--------|-----------|-------------------------|-------|---------|
|                |        |           | B                       | U     | G       |
| FL (0°-30°)    | 289.9  | 5.4       |                         |       |         |
| FM (30°-60°)   | 950.4  | 17.6      |                         |       |         |
| FH (60°-80°)   | 1356.1 | 25.1      |                         |       | G1/1800 |
| FVH (80°-90°)  | 60.5   | 1.1       |                         |       | G1/100  |
| BL (0°-30°)    | 289.9  | 5.4       | B1/500                  |       |         |
| BM (30°-60°)   | 950.4  | 17.6      | B1/1000                 |       |         |
| BH (60°-80°)   | 1356.1 | 25.1      | B3/2500                 |       | G1/1800 |
| BVH (80°-90°)  | 60.5   | 1.1       |                         |       | G1/100  |
| UL (90°-100°)  | 37.6   | 0.7       |                         | U2/50 |         |
| UH (100°-180°) | 43.4   | 0.8       |                         | U2/50 |         |

**BUG Rating: B3-U2-G1**

Type V Short





REPORT NUMBER: P242077  
 CATALOG NUMBER: AL4850LPCBZ

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 47°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 618.0  | 618.0  | 618.0  | 618.0  | 618.0  | 618.0  | 618.0  | 618.0  | 618.0  | 618.0  | 618.0  |
| 2.5°   | 611.0  | 614.0  | 617.0  | 614.0  | 614.0  | 615.0  | 619.9  | 609.0  | 613.0  | 616.0  | 619.9  |
| 5°     | 619.0  | 621.9  | 623.9  | 619.9  | 619.0  | 619.9  | 623.9  | 613.0  | 614.0  | 617.0  | 620.9  |
| 7.5°   | 624.9  | 628.9  | 629.9  | 625.9  | 624.9  | 624.9  | 627.9  | 617.0  | 618.0  | 620.9  | 622.9  |
| 10°    | 622.9  | 627.9  | 629.9  | 626.9  | 625.9  | 625.9  | 631.9  | 621.9  | 622.9  | 627.9  | 627.9  |
| 12.5°  | 625.9  | 631.9  | 633.8  | 631.9  | 632.8  | 635.8  | 641.8  | 631.9  | 635.8  | 640.8  | 642.8  |
| 15°    | 642.8  | 647.7  | 649.7  | 646.7  | 648.7  | 649.7  | 655.7  | 646.7  | 648.7  | 652.7  | 659.6  |
| 17.5°  | 662.6  | 668.6  | 668.6  | 664.6  | 664.6  | 663.6  | 669.5  | 658.6  | 660.6  | 664.6  | 673.5  |
| 20°    | 679.5  | 685.4  | 686.4  | 682.4  | 681.4  | 681.4  | 685.4  | 674.5  | 674.5  | 678.5  | 686.4  |
| 22.5°  | 700.3  | 707.2  | 707.2  | 703.3  | 703.3  | 702.3  | 707.2  | 695.3  | 695.3  | 699.3  | 707.2  |
| 25°    | 719.1  | 727.1  | 728.1  | 724.1  | 724.1  | 723.1  | 728.1  | 716.2  | 716.2  | 722.1  | 731.0  |
| 27.5°  | 740.0  | 748.9  | 748.9  | 746.9  | 746.9  | 746.9  | 752.9  | 740.0  | 741.0  | 746.9  | 755.8  |
| 30°    | 765.8  | 773.7  | 774.7  | 771.7  | 773.7  | 773.7  | 779.6  | 766.8  | 767.7  | 774.7  | 782.6  |
| 32.5°  | 793.5  | 801.5  | 803.5  | 801.5  | 802.5  | 801.5  | 807.4  | 794.5  | 796.5  | 803.5  | 813.4  |
| 35°    | 825.3  | 835.2  | 836.2  | 834.2  | 835.2  | 834.2  | 840.2  | 828.3  | 828.3  | 835.2  | 848.1  |
| 37.5°  | 865.9  | 874.9  | 874.9  | 872.9  | 874.9  | 872.9  | 878.8  | 865.0  | 866.9  | 873.9  | 886.8  |
| 40°    | 909.6  | 920.5  | 920.5  | 919.5  | 921.5  | 920.5  | 925.5  | 910.6  | 911.6  | 917.5  | 932.4  |
| 42.5°  | 886.8  | 890.7  | 892.7  | 879.8  | 893.7  | 891.7  | 903.6  | 905.6  | 894.7  | 905.6  | 931.4  |
| 45°    | 437.4  | 448.3  | 450.3  | 442.4  | 456.3  | 458.3  | 472.2  | 475.1  | 486.0  | 483.1  | 507.9  |
| 47.5°  | 350.1  | 379.9  | 386.8  | 386.8  | 395.8  | 410.7  | 413.6  | 389.8  | 399.7  | 405.7  | 432.5  |
| 50°    | 468.2  | 499.9  | 523.7  | 511.8  | 535.6  | 543.6  | 563.4  | 531.7  | 536.6  | 555.5  | 596.1  |
| 52.5°  | 632.8  | 676.5  | 732.0  | 720.1  | 729.1  | 750.9  | 780.6  | 729.1  | 726.1  | 737.0  | 782.6  |
| 55°    | 842.1  | 879.8  | 963.2  | 990.9  | 993.9  | 1019.7 | 1049.4 | 965.1  | 922.5  | 956.2  | 1017.7 |
| 57.5°  | 1089.1 | 1157.6 | 1200.2 | 1250.8 | 1288.5 | 1303.4 | 1345.0 | 1241.9 | 1204.2 | 1233.9 | 1369.8 |
| 60°    | 1478.0 | 1558.3 | 1521.6 | 1574.2 | 1630.7 | 1640.6 | 1747.8 | 1627.7 | 1569.2 | 1606.9 | 1801.3 |
| 62.5°  | 1884.6 | 1899.5 | 1821.2 | 1876.7 | 1946.1 | 1993.8 | 2097.9 | 1991.8 | 1877.7 | 1959.0 | 2162.4 |
| 65°    | 2070.1 | 1979.9 | 1980.9 | 1962.0 | 2112.8 | 2203.0 | 2236.8 | 2138.6 | 2043.4 | 2114.8 | 2407.4 |
| 67.5°  | 1922.3 | 1828.1 | 1846.0 | 1862.8 | 1984.8 | 2071.1 | 2031.4 | 1988.8 | 2007.6 | 1980.9 | 2261.6 |
| 70°    | 1466.1 | 1500.8 | 1468.0 | 1542.4 | 1585.1 | 1623.8 | 1587.1 | 1587.1 | 1650.6 | 1602.9 | 1727.9 |
| 72.5°  | 953.2  | 1052.4 | 1020.7 | 1046.5 | 1056.4 | 1087.1 | 1083.2 | 1081.2 | 1110.9 | 1114.9 | 1117.9 |
| 75°    | 654.7  | 698.3  | 698.3  | 699.3  | 704.3  | 722.1  | 728.1  | 730.1  | 751.9  | 766.8  | 760.8  |
| 77.5°  | 438.4  | 441.4  | 460.2  | 446.4  | 447.4  | 452.3  | 469.2  | 470.2  | 471.2  | 475.1  | 468.2  |
| 80°    | 222.2  | 222.2  | 230.1  | 223.2  | 221.2  | 228.1  | 232.1  | 228.1  | 224.2  | 224.2  | 217.2  |
| 82.5°  | 128.0  | 130.9  | 129.9  | 130.9  | 129.9  | 129.9  | 131.9  | 129.9  | 128.9  | 130.9  | 130.9  |
| 85°    | 102.2  | 104.2  | 104.2  | 103.2  | 103.2  | 103.2  | 103.2  | 103.2  | 102.2  | 102.2  | 104.2  |
| 87.5°  | 78.4   | 79.4   | 79.4   | 79.4   | 79.4   | 78.4   | 79.4   | 78.4   | 78.4   | 78.4   | 79.4   |
| 90°    | 49.6   | 50.6   | 50.6   | 50.6   | 50.6   | 50.6   | 50.6   | 50.6   | 49.6   | 50.6   | 50.6   |
| 92.5°  | 34.7   | 34.7   | 35.7   | 37.7   | 37.7   | 37.7   | 37.7   | 37.7   | 36.7   | 37.7   | 37.7   |
| 95°    | 27.8   | 26.8   | 29.8   | 31.7   | 32.7   | 32.7   | 32.7   | 32.7   | 32.7   | 32.7   | 33.7   |
| 97.5°  | 23.8   | 23.8   | 26.8   | 28.8   | 29.8   | 29.8   | 30.7   | 29.8   | 29.8   | 30.7   | 30.7   |
| 100°   | 21.8   | 21.8   | 23.8   | 25.8   | 27.8   | 27.8   | 28.8   | 28.8   | 28.8   | 28.8   | 28.8   |
| 102.5° | 20.8   | 20.8   | 21.8   | 23.8   | 24.8   | 25.8   | 25.8   | 25.8   | 26.8   | 26.8   | 26.8   |
| 105°   | 18.8   | 17.9   | 18.8   | 20.8   | 21.8   | 21.8   | 22.8   | 22.8   | 23.8   | 23.8   | 24.8   |
| 107.5° | 16.9   | 15.9   | 15.9   | 17.9   | 17.9   | 17.9   | 18.8   | 18.8   | 18.8   | 19.8   | 20.8   |
| 110°   | 12.9   | 11.9   | 12.9   | 13.9   | 13.9   | 13.9   | 14.9   | 14.9   | 14.9   | 14.9   | 15.9   |



REPORT NUMBER: P242077  
 CATALOG NUMBER: AL4850LPCBZ

**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 5°  | 10° | 15° | 20°  | 25°  | 30°  | 35°  | 40°  | 45°  | 47°  |
|--------|-----|-----|-----|-----|------|------|------|------|------|------|------|
| 112.5° | 9.9 | 8.9 | 9.9 | 9.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 11.9 | 11.9 |
| 115°   | 7.9 | 7.9 | 8.9 | 8.9 | 8.9  | 9.9  | 9.9  | 9.9  | 9.9  | 10.9 | 10.9 |
| 117.5° | 7.9 | 6.9 | 7.9 | 7.9 | 8.9  | 8.9  | 8.9  | 8.9  | 8.9  | 9.9  | 9.9  |
| 120°   | 6.9 | 6.9 | 6.9 | 7.9 | 7.9  | 7.9  | 8.9  | 8.9  | 8.9  | 8.9  | 9.9  |
| 122.5° | 6.9 | 6.9 | 6.9 | 7.9 | 7.9  | 7.9  | 7.9  | 7.9  | 7.9  | 8.9  | 8.9  |
| 125°   | 6.9 | 6.9 | 6.9 | 6.9 | 7.9  | 7.9  | 7.9  | 7.9  | 7.9  | 8.9  | 8.9  |
| 127.5° | 6.9 | 6.0 | 6.0 | 6.9 | 6.9  | 6.9  | 7.9  | 7.9  | 7.9  | 7.9  | 8.9  |
| 130°   | 6.0 | 6.0 | 6.0 | 6.0 | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 7.9  | 7.9  |
| 132.5° | 5.0 | 5.0 | 5.0 | 6.0 | 6.0  | 6.0  | 6.0  | 6.0  | 6.0  | 6.9  | 6.9  |
| 135°   | 5.0 | 5.0 | 5.0 | 5.0 | 5.0  | 5.0  | 6.0  | 6.0  | 6.0  | 6.0  | 6.0  |
| 137.5° | 4.0 | 4.0 | 4.0 | 4.0 | 5.0  | 5.0  | 5.0  | 5.0  | 5.0  | 5.0  | 6.0  |
| 140°   | 4.0 | 4.0 | 4.0 | 4.0 | 4.0  | 4.0  | 4.0  | 5.0  | 5.0  | 5.0  | 5.0  |
| 142.5° | 3.0 | 3.0 | 3.0 | 4.0 | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  | 5.0  |
| 145°   | 3.0 | 3.0 | 3.0 | 3.0 | 3.0  | 3.0  | 3.0  | 4.0  | 3.0  | 4.0  | 4.0  |
| 147.5° | 2.0 | 3.0 | 2.0 | 3.0 | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  |
| 150°   | 2.0 | 2.0 | 2.0 | 2.0 | 2.0  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  |
| 152.5° | 2.0 | 2.0 | 2.0 | 2.0 | 2.0  | 2.0  | 2.0  | 2.0  | 2.0  | 2.0  | 3.0  |
| 155°   | 1.0 | 2.0 | 1.0 | 2.0 | 2.0  | 2.0  | 2.0  | 2.0  | 2.0  | 2.0  | 2.0  |
| 157.5° | 1.0 | 1.0 | 1.0 | 1.0 | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  |
| 160°   | 0.0 | 1.0 | 1.0 | 1.0 | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0 | 0.0 | 0.0 | 0.0 | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |





REPORT NUMBER: P242077  
 CATALOG NUMBER: AL4850LPCBZ

**CANDELA DISTRIBUTION (continued):**

|        | 50°    | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 618.0  | 618.0  | 618.0  | 618.0  | 618.0  | 618.0  | 618.0  | 618.0  | 618.0  |
| 2.5°   | 611.0  | 608.0  | 611.0  | 619.9  | 613.0  | 613.0  | 609.0  | 613.0  | 615.0  |
| 5°     | 612.0  | 609.0  | 612.0  | 619.9  | 613.0  | 614.0  | 610.0  | 614.0  | 616.0  |
| 7.5°   | 615.0  | 612.0  | 616.0  | 624.9  | 619.0  | 619.9  | 616.0  | 619.9  | 622.9  |
| 10°    | 622.9  | 619.9  | 624.9  | 631.9  | 625.9  | 626.9  | 623.9  | 627.9  | 629.9  |
| 12.5°  | 635.8  | 632.8  | 636.8  | 644.7  | 638.8  | 638.8  | 634.8  | 638.8  | 640.8  |
| 15°    | 648.7  | 645.7  | 650.7  | 658.6  | 652.7  | 651.7  | 648.7  | 652.7  | 653.7  |
| 17.5°  | 659.6  | 656.6  | 661.6  | 669.5  | 662.6  | 661.6  | 658.6  | 662.6  | 663.6  |
| 20°    | 672.5  | 668.6  | 673.5  | 680.5  | 674.5  | 672.5  | 669.5  | 672.5  | 673.5  |
| 22.5°  | 691.4  | 687.4  | 693.4  | 699.3  | 691.4  | 689.4  | 686.4  | 689.4  | 690.4  |
| 25°    | 715.2  | 712.2  | 718.1  | 724.1  | 718.1  | 716.2  | 712.2  | 714.2  | 715.2  |
| 27.5°  | 741.0  | 739.0  | 744.9  | 751.9  | 744.9  | 742.9  | 740.0  | 742.0  | 743.9  |
| 30°    | 767.7  | 766.8  | 773.7  | 780.6  | 774.7  | 772.7  | 769.7  | 770.7  | 772.7  |
| 32.5°  | 796.5  | 795.5  | 803.5  | 811.4  | 804.4  | 802.5  | 798.5  | 801.5  | 802.5  |
| 35°    | 830.2  | 827.3  | 836.2  | 844.1  | 837.2  | 834.2  | 831.2  | 832.2  | 834.2  |
| 37.5°  | 867.9  | 865.9  | 874.9  | 881.8  | 876.9  | 871.9  | 869.9  | 869.9  | 871.9  |
| 40°    | 911.6  | 909.6  | 918.5  | 926.5  | 920.5  | 914.5  | 912.6  | 914.5  | 914.5  |
| 42.5°  | 901.7  | 896.7  | 899.7  | 920.5  | 908.6  | 911.6  | 906.6  | 899.7  | 905.6  |
| 45°    | 485.0  | 493.0  | 466.2  | 485.0  | 477.1  | 479.1  | 471.2  | 466.2  | 471.2  |
| 47.5°  | 402.7  | 395.8  | 373.0  | 361.1  | 362.0  | 381.9  | 356.1  | 358.1  | 362.0  |
| 50°    | 538.6  | 532.7  | 521.7  | 497.0  | 506.9  | 521.7  | 507.9  | 502.9  | 506.9  |
| 52.5°  | 724.1  | 735.0  | 720.1  | 713.2  | 727.1  | 713.2  | 692.4  | 701.3  | 706.2  |
| 55°    | 938.4  | 968.1  | 973.1  | 959.2  | 985.0  | 921.5  | 905.6  | 936.4  | 954.2  |
| 57.5°  | 1224.0 | 1213.1 | 1218.1 | 1210.1 | 1241.9 | 1218.1 | 1177.4 | 1183.4 | 1201.2 |
| 60°    | 1607.9 | 1619.8 | 1588.1 | 1540.4 | 1616.8 | 1596.0 | 1525.6 | 1557.3 | 1567.2 |
| 62.5°  | 1955.1 | 1996.7 | 1881.7 | 1887.6 | 1931.3 | 1890.6 | 1900.5 | 1883.7 | 1893.6 |
| 65°    | 2194.1 | 2144.5 | 2027.5 | 2084.0 | 2083.0 | 2041.4 | 2100.9 | 2064.2 | 2069.1 |
| 67.5°  | 2080.1 | 1983.8 | 1954.1 | 1999.7 | 1972.9 | 1950.1 | 1965.0 | 1979.9 | 1865.8 |
| 70°    | 1606.9 | 1572.2 | 1604.9 | 1609.9 | 1587.1 | 1591.0 | 1541.4 | 1608.9 | 1483.9 |
| 72.5°  | 1036.6 | 1058.4 | 1102.0 | 1096.1 | 1118.9 | 1093.1 | 1048.5 | 1072.3 | 1053.4 |
| 75°    | 689.4  | 734.0  | 755.8  | 759.8  | 763.8  | 732.0  | 716.2  | 703.3  | 734.0  |
| 77.5°  | 450.3  | 463.2  | 469.2  | 464.2  | 458.3  | 442.4  | 449.3  | 431.5  | 460.2  |
| 80°    | 220.2  | 220.2  | 222.2  | 217.2  | 222.2  | 208.3  | 214.3  | 212.3  | 214.3  |
| 82.5°  | 128.0  | 127.0  | 127.0  | 127.0  | 127.0  | 123.0  | 123.0  | 124.0  | 123.0  |
| 85°    | 100.2  | 101.2  | 102.2  | 101.2  | 100.2  | 99.2   | 99.2   | 97.2   | 97.2   |
| 87.5°  | 77.4   | 78.4   | 78.4   | 78.4   | 78.4   | 77.4   | 77.4   | 76.4   | 76.4   |
| 90°    | 50.6   | 50.6   | 50.6   | 50.6   | 50.6   | 49.6   | 50.6   | 50.6   | 49.6   |
| 92.5°  | 36.7   | 37.7   | 37.7   | 37.7   | 37.7   | 36.7   | 37.7   | 37.7   | 36.7   |
| 95°    | 32.7   | 32.7   | 32.7   | 32.7   | 32.7   | 32.7   | 32.7   | 32.7   | 32.7   |
| 97.5°  | 30.7   | 30.7   | 30.7   | 30.7   | 30.7   | 30.7   | 30.7   | 29.8   | 29.8   |
| 100°   | 28.8   | 28.8   | 29.8   | 29.8   | 29.8   | 28.8   | 28.8   | 28.8   | 28.8   |
| 102.5° | 26.8   | 27.8   | 27.8   | 27.8   | 27.8   | 27.8   | 27.8   | 27.8   | 26.8   |
| 105°   | 24.8   | 24.8   | 24.8   | 24.8   | 24.8   | 24.8   | 24.8   | 24.8   | 24.8   |
| 107.5° | 19.8   | 20.8   | 20.8   | 20.8   | 20.8   | 20.8   | 20.8   | 20.8   | 19.8   |
| 110°   | 14.9   | 15.9   | 15.9   | 15.9   | 15.9   | 15.9   | 15.9   | 15.9   | 15.9   |



REPORT NUMBER: P242077  
 CATALOG NUMBER: AL4850LPCBZ

**CANDELA DISTRIBUTION (continued):**

|        | 50°  | 55°  | 60°  | 65°  | 70°  | 75°  | 80°  | 85°  | 90°  |
|--------|------|------|------|------|------|------|------|------|------|
| 112.5° | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 | 11.9 |
| 115°   | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 | 10.9 |
| 117.5° | 9.9  | 9.9  | 9.9  | 9.9  | 9.9  | 9.9  | 9.9  | 9.9  | 9.9  |
| 120°   | 8.9  | 8.9  | 8.9  | 8.9  | 8.9  | 8.9  | 8.9  | 8.9  | 8.9  |
| 122.5° | 8.9  | 8.9  | 8.9  | 8.9  | 8.9  | 8.9  | 8.9  | 8.9  | 8.9  |
| 125°   | 8.9  | 8.9  | 8.9  | 8.9  | 8.9  | 8.9  | 8.9  | 8.9  | 8.9  |
| 127.5° | 7.9  | 7.9  | 8.9  | 7.9  | 7.9  | 7.9  | 8.9  | 7.9  | 7.9  |
| 130°   | 7.9  | 7.9  | 7.9  | 7.9  | 7.9  | 7.9  | 7.9  | 7.9  | 6.9  |
| 132.5° | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  | 6.9  |
| 135°   | 6.0  | 6.0  | 6.0  | 6.0  | 6.0  | 6.0  | 6.0  | 6.0  | 6.0  |
| 137.5° | 5.0  | 6.0  | 6.0  | 6.0  | 6.0  | 6.0  | 6.0  | 6.0  | 6.0  |
| 140°   | 5.0  | 5.0  | 5.0  | 5.0  | 5.0  | 5.0  | 5.0  | 5.0  | 5.0  |
| 142.5° | 4.0  | 4.0  | 5.0  | 5.0  | 5.0  | 5.0  | 5.0  | 5.0  | 4.0  |
| 145°   | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  |
| 147.5° | 3.0  | 3.0  | 3.0  | 3.0  | 4.0  | 3.0  | 4.0  | 3.0  | 3.0  |
| 150°   | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  |
| 152.5° | 2.0  | 2.0  | 3.0  | 3.0  | 3.0  | 2.0  | 3.0  | 3.0  | 2.0  |
| 155°   | 2.0  | 2.0  | 2.0  | 2.0  | 2.0  | 2.0  | 2.0  | 2.0  | 2.0  |
| 157.5° | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  |
| 160°   | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  | 1.0  |
| 162.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 165°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 167.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 170°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 172.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 175°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 177.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 180°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |

(END OF REPORT)