

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: STREETWORKS

Report Number: P691645

Luminaire Tested: **CRTK2-C018-5TLD-U-T5R-7050-SR-CARETAKER**

Issue Date: 6/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P691645  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/13/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CRTK2-C018-5TLD-U-T5R-7050-SR-CARETAKER  
Description: CARETAKER AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K LED WITH TYPE V ROUND OPTIC AND SR REFRACTOR  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

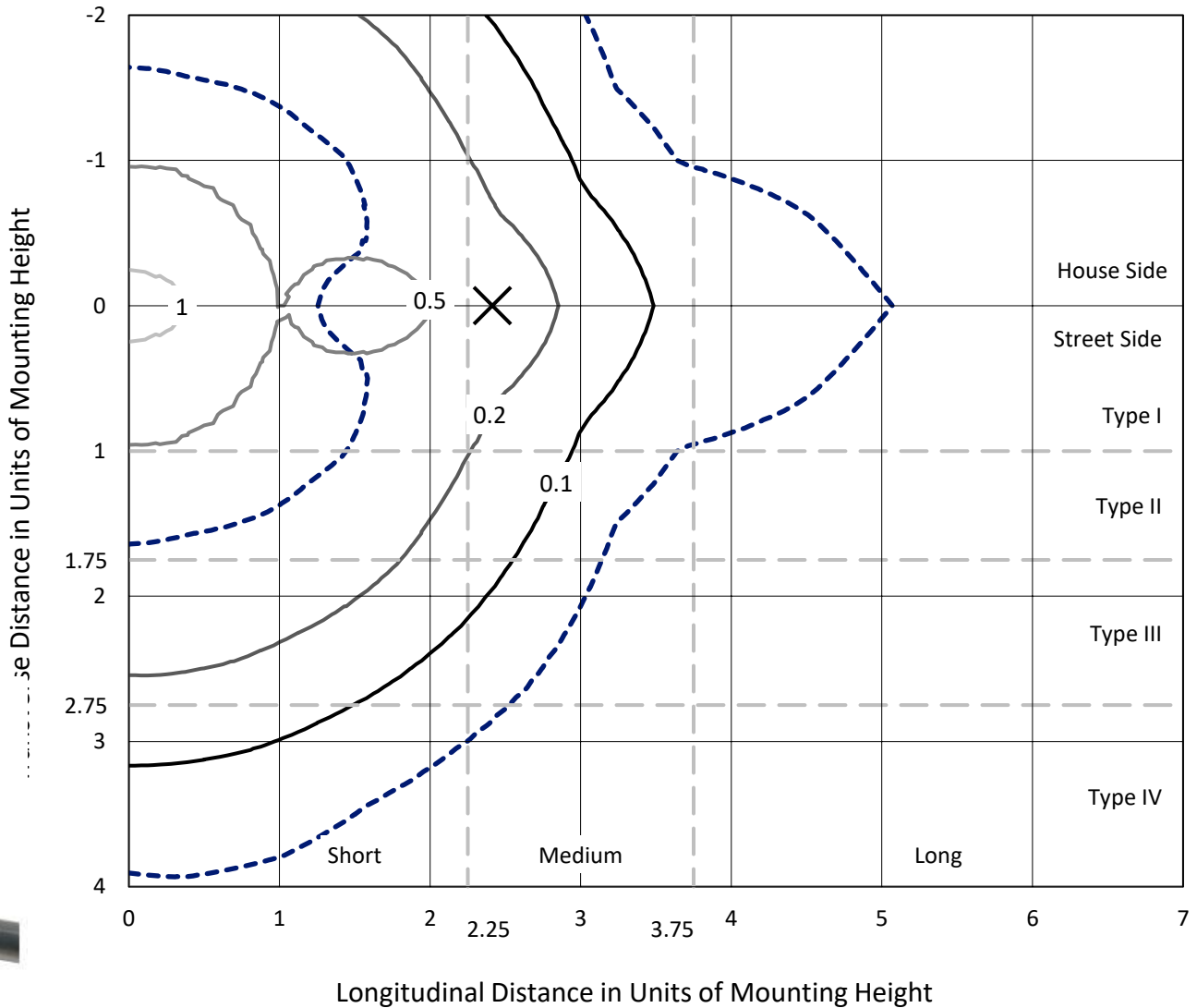
Lumens per Lamp: N/A  
Luminaire Lumens: 8438 lumens  
Efficiency: N/A  
Efficacy: 157.1 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.33' x H: 0.29')  
IES Classification: Type V - Short  
BUG Rating: B3 - U3 - G3  
  
Input Watts (W): 53.7  
Input Voltage (V): NR  
Input Current (Ain): 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



REPORT NUMBER: P691645  
 CATALOG NUMBER: CRTK2-C018-5TLD-U-T5R-7050-SR-CARETAKER

### Iso-Footcandle Lines of Horizontal Illumination

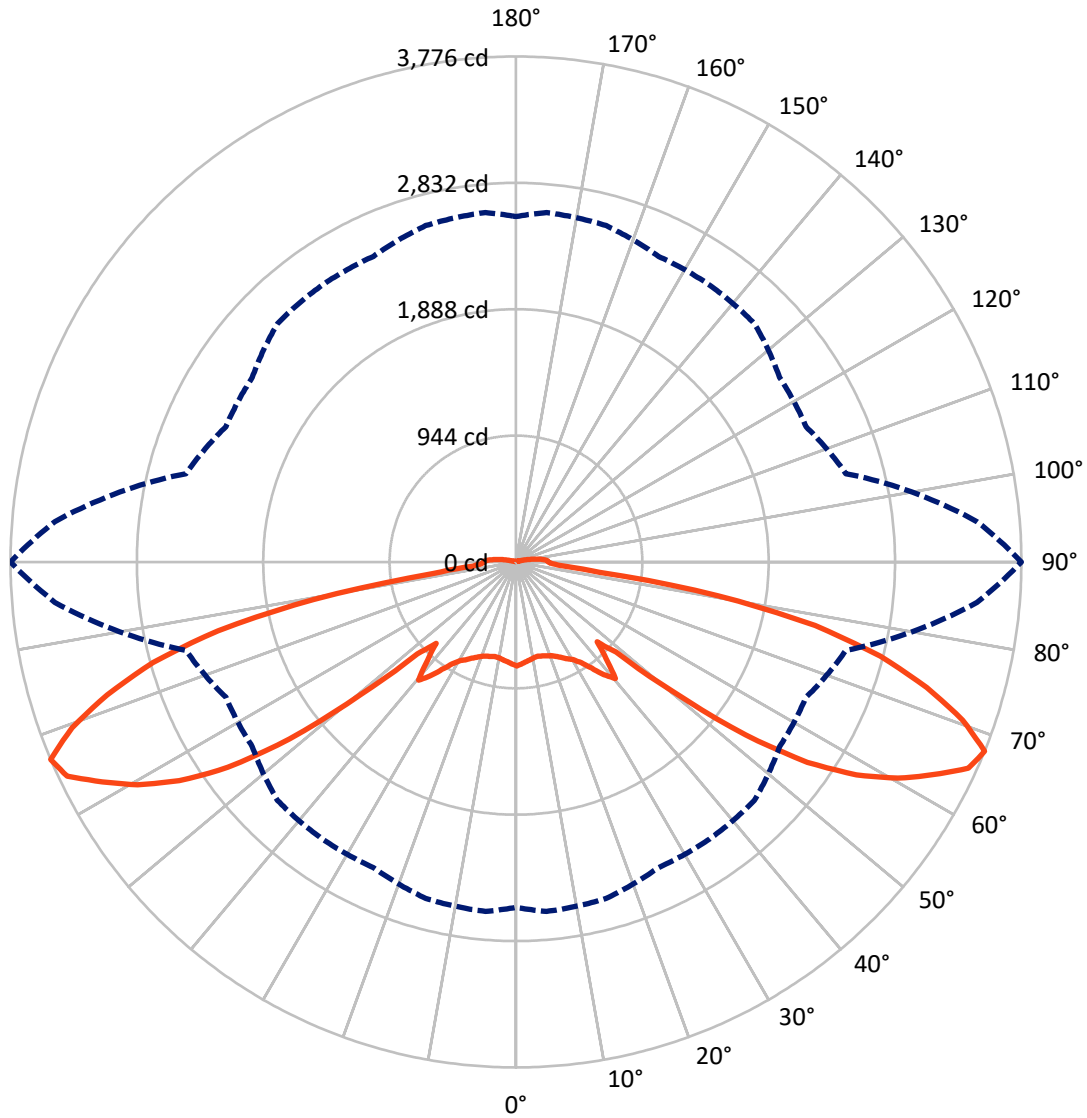
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type V - Short - N/A

REPORT NUMBER: P691645  
CATALOG NUMBER: CRTK2-C018-5TLD-U-T5R-7050-SR-CARETAKER

### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P691645  
 CATALOG NUMBER: CRTK2-C018-5TLD-U-T5R-7050-SR-CARETAKER

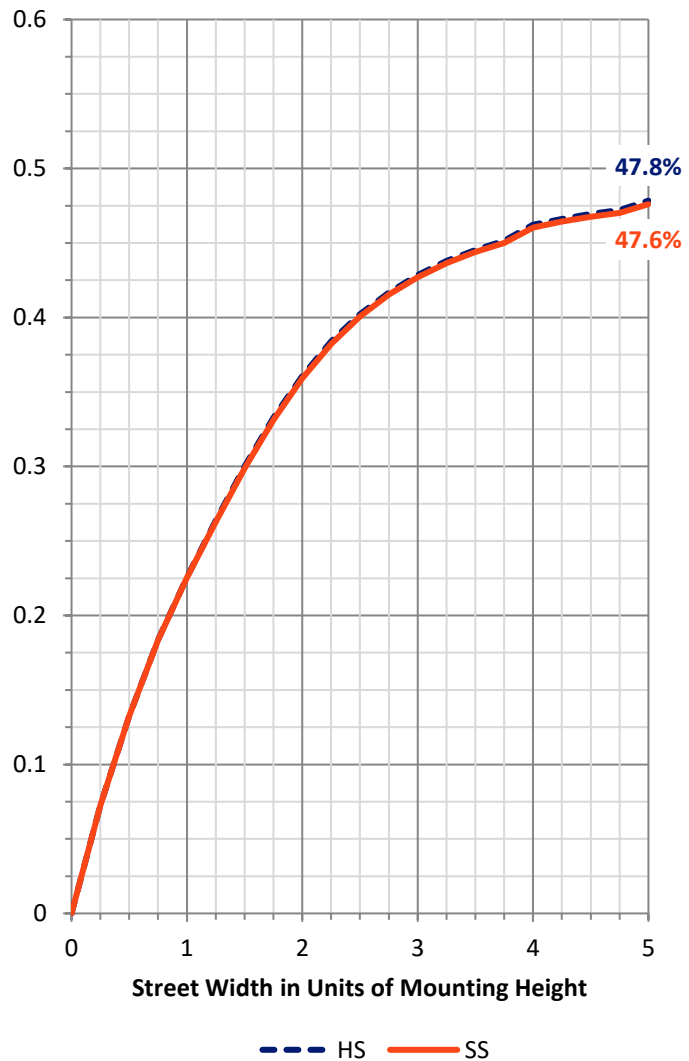
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4096.8   | 122.2  | 4219.0 |
|                    | % Fixture | 48.6     | 1.4    | 50.0   |
| <b>Street Side</b> | Lumens    | 4096.8   | 122.2  | 4219.0 |
|                    | % Fixture | 48.6     | 1.4    | 50.0   |
| <b>Total</b>       | Lumens    | 8193.6   | 244.4  | 8438.0 |
|                    | % Fixture | 97.1     | 2.9    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 70.2   | 0.8       |
| 10°-20°   | 200.2  | 2.4       |
| 20°-30°   | 354.5  | 4.2       |
| 30°-40°   | 598.0  | 7.1       |
| 40°-50°   | 670.2  | 7.9       |
| 50°-60°   | 1387.5 | 16.4      |
| 60°-70°   | 2442.1 | 28.9      |
| 70°-80°   | 2018.2 | 23.9      |
| 80°-90°   | 452.7  | 5.4       |
| 90°-100°  | 173.1  | 2.1       |
| 100°-110° | 48.9   | 0.6       |
| 110°-120° | 15.0   | 0.2       |
| 120°-130° | 6.8    | 0.1       |
| 130°-140° | 0.6    | 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°    | 8193.6 | 97.1      |
| 0°-180°   | 8438.0 | 100.0     |



REPORT NUMBER: P691645

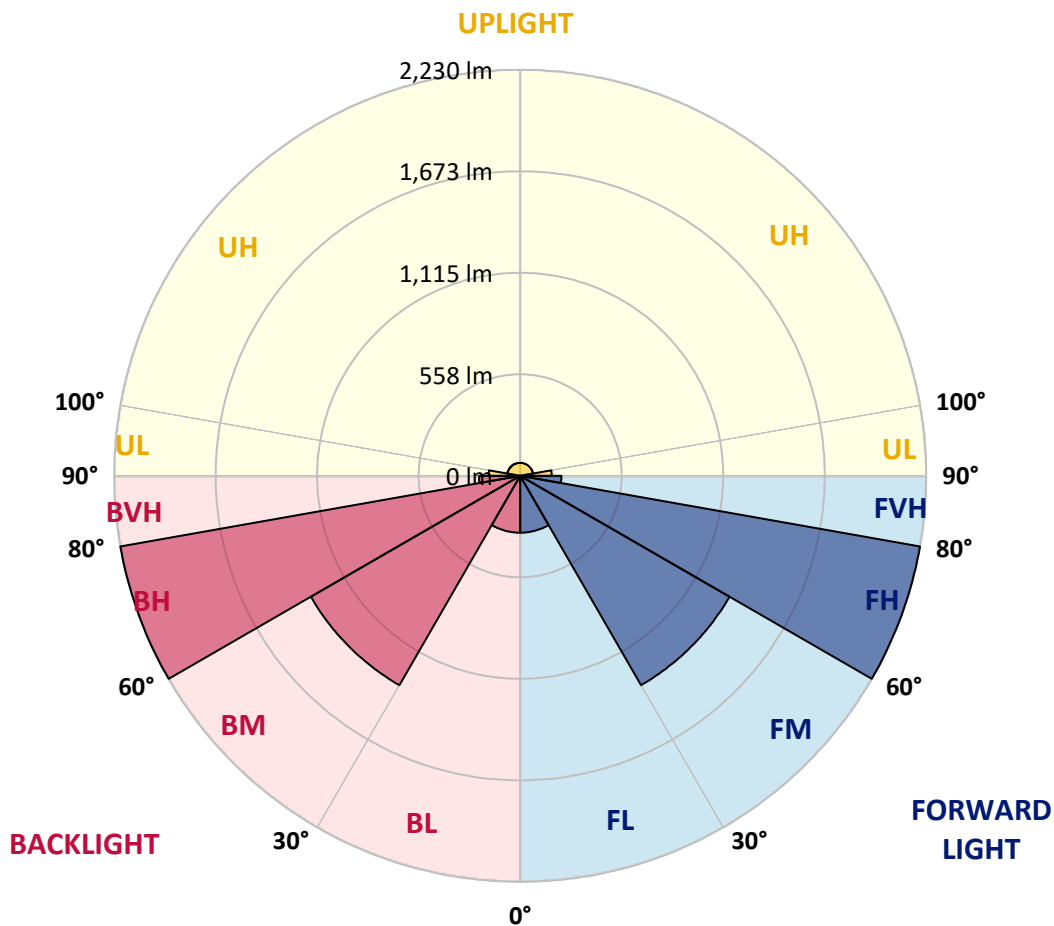
CATALOG NUMBER: CRTK2-C018-5TLD-U-T5R-7050-SR-CARETAKER

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |        |         |
|----------------|--------|-----------|-------------------------|--------|---------|
|                |        |           | B                       | U      | G       |
| FL (0°-30°)    | 312.5  | 3.7       |                         |        |         |
| FM (30°-60°)   | 1327.8 | 15.7      |                         |        |         |
| FH (60°-80°)   | 2230.1 | 26.4      |                         |        | G2/5000 |
| FVH (80°-90°)  | 226.4  | 2.7       |                         |        | G3/500  |
| BL (0°-30°)    | 312.5  | 3.7       | B1/500                  |        |         |
| BM (30°-60°)   | 1327.8 | 15.7      | B2/2500                 |        |         |
| BH (60°-80°)   | 2230.1 | 26.4      | B3/2500                 |        | G2/5000 |
| BVH (80°-90°)  | 226.4  | 2.7       |                         |        | G3/500  |
| UL (90°-100°)  | 173.1  | 2.1       |                         | U3/500 |         |
| UH (100°-180°) | 71.3   | 0.8       |                         | U3/500 |         |

**BUG Rating: B3-U3-G3**

Type V Short





REPORT NUMBER: P691645

CATALOG NUMBER: CRTK2-C018-5TLD-U-T5R-7050-SR-CARETAKER

**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 776.5  | 776.5  | 776.5  | 776.5  | 776.5  | 776.5  | 776.5  | 776.5  | 776.5  | 776.5  | 776.5  |
| 2.5°   | 768.5  | 768.5  | 763.1  | 760.5  | 763.1  | 765.8  | 768.5  | 768.5  | 765.8  | 763.1  | 763.1  |
| 5°     | 755.1  | 752.4  | 749.8  | 747.1  | 747.1  | 752.4  | 752.4  | 755.1  | 752.4  | 749.8  | 749.8  |
| 7.5°   | 720.4  | 720.4  | 717.8  | 715.1  | 720.4  | 725.8  | 733.8  | 736.4  | 739.1  | 739.1  | 739.1  |
| 10°    | 696.4  | 696.4  | 693.7  | 693.7  | 699.1  | 707.1  | 715.1  | 723.1  | 725.8  | 728.4  | 728.4  |
| 12.5°  | 683.1  | 683.1  | 683.1  | 680.4  | 688.4  | 696.4  | 709.8  | 715.1  | 720.4  | 723.1  | 723.1  |
| 15°    | 683.1  | 680.4  | 680.4  | 683.1  | 688.4  | 699.1  | 709.8  | 720.4  | 725.8  | 728.4  | 728.4  |
| 17.5°  | 688.4  | 685.7  | 685.7  | 685.7  | 693.7  | 704.4  | 717.8  | 725.8  | 733.8  | 736.4  | 736.4  |
| 20°    | 696.4  | 696.4  | 696.4  | 696.4  | 701.7  | 715.1  | 728.4  | 736.4  | 744.4  | 747.1  | 747.1  |
| 22.5°  | 717.8  | 717.8  | 715.1  | 712.4  | 717.8  | 728.4  | 744.4  | 752.4  | 760.5  | 765.8  | 765.8  |
| 25°    | 744.4  | 741.8  | 741.8  | 739.1  | 739.1  | 749.8  | 763.1  | 773.8  | 784.5  | 789.8  | 789.8  |
| 27.5°  | 776.5  | 773.8  | 773.8  | 768.5  | 768.5  | 781.8  | 792.5  | 803.1  | 813.8  | 819.2  | 819.2  |
| 30°    | 811.1  | 813.8  | 808.5  | 805.8  | 803.1  | 813.8  | 824.5  | 832.5  | 840.5  | 845.8  | 845.8  |
| 32.5°  | 867.2  | 867.2  | 861.8  | 859.2  | 856.5  | 864.5  | 869.8  | 875.2  | 883.2  | 893.9  | 896.5  |
| 35°    | 936.6  | 933.9  | 933.9  | 933.9  | 933.9  | 939.2  | 944.6  | 941.9  | 957.9  | 968.6  | 973.9  |
| 37.5°  | 1027.3 | 1029.9 | 1024.6 | 1019.3 | 1016.6 | 1021.9 | 1027.3 | 1035.3 | 1051.3 | 1064.6 | 1067.3 |
| 40°    | 1011.3 | 1005.9 | 1011.3 | 1021.9 | 1024.6 | 1048.6 | 1072.6 | 1091.3 | 1118.0 | 1142.0 | 1144.7 |
| 42.5°  | 907.2  | 915.2  | 923.2  | 923.2  | 920.5  | 920.5  | 923.2  | 925.9  | 952.6  | 987.3  | 987.3  |
| 45°    | 744.4  | 749.8  | 760.5  | 755.1  | 731.1  | 720.4  | 725.8  | 733.8  | 763.1  | 848.5  | 851.2  |
| 47.5°  | 789.8  | 800.5  | 811.1  | 779.1  | 749.8  | 704.4  | 699.1  | 693.7  | 728.4  | 965.9  | 1005.9 |
| 50°    | 931.2  | 931.2  | 944.6  | 917.9  | 907.2  | 880.5  | 864.5  | 869.8  | 944.6  | 1438.2 | 1526.2 |
| 52.5°  | 1211.4 | 1206.0 | 1238.1 | 1206.0 | 1195.4 | 1139.3 | 1078.0 | 1110.0 | 1187.4 | 1966.5 | 2147.9 |
| 55°    | 1470.2 | 1475.5 | 1507.6 | 1475.5 | 1446.2 | 1395.5 | 1312.8 | 1368.8 | 1472.9 | 2382.7 | 2641.6 |
| 57.5°  | 1750.4 | 1758.4 | 1795.7 | 1734.4 | 1675.7 | 1649.0 | 1571.6 | 1630.3 | 1745.0 | 2652.2 | 2999.1 |
| 60°    | 2041.2 | 2049.2 | 2067.9 | 1990.5 | 1937.1 | 1923.8 | 1835.8 | 1899.8 | 2038.5 | 2889.7 | 3279.3 |
| 62.5°  | 2318.7 | 2326.7 | 2316.0 | 2241.3 | 2209.3 | 2212.0 | 2126.6 | 2172.0 | 2321.4 | 3167.2 | 3498.1 |
| 65°    | 2494.8 | 2529.5 | 2521.5 | 2438.8 | 2428.1 | 2438.8 | 2348.1 | 2353.4 | 2508.2 | 3383.3 | 3714.2 |
| 67.5°  | 2580.2 | 2620.2 | 2601.5 | 2518.8 | 2524.2 | 2518.8 | 2404.1 | 2390.7 | 2550.8 | 3458.0 | 3775.6 |
| 70°    | 2494.8 | 2494.8 | 2481.5 | 2409.4 | 2406.8 | 2385.4 | 2300.0 | 2278.7 | 2404.1 | 3252.6 | 3540.8 |
| 72.5°  | 2286.7 | 2286.7 | 2276.0 | 2193.3 | 2177.3 | 2161.3 | 2110.6 | 2073.2 | 2182.6 | 2921.7 | 3209.9 |
| 75°    | 1985.2 | 2009.2 | 1995.8 | 1913.1 | 1894.5 | 1883.8 | 1849.1 | 1811.7 | 1910.5 | 2569.5 | 2812.3 |
| 77.5°  | 1587.6 | 1614.3 | 1598.3 | 1536.9 | 1520.9 | 1526.2 | 1502.2 | 1480.9 | 1552.9 | 2059.9 | 2284.0 |
| 80°    | 1064.6 | 1088.6 | 1059.3 | 1029.9 | 1005.9 | 1029.9 | 1019.3 | 1008.6 | 1048.6 | 1312.8 | 1536.9 |
| 82.5°  | 480.3  | 485.6  | 485.6  | 456.3  | 437.6  | 474.9  | 480.3  | 488.3  | 512.3  | 571.0  | 627.0  |
| 85°    | 293.5  | 296.2  | 290.8  | 282.8  | 272.2  | 280.2  | 277.5  | 282.8  | 293.5  | 312.2  | 322.9  |
| 87.5°  | 250.8  | 250.8  | 250.8  | 242.8  | 234.8  | 234.8  | 232.1  | 234.8  | 237.5  | 253.5  | 258.8  |
| 90°    | 221.5  | 221.5  | 221.5  | 216.1  | 210.8  | 210.8  | 213.5  | 210.8  | 216.1  | 232.1  | 240.1  |
| 92.5°  | 186.8  | 189.4  | 194.8  | 194.8  | 194.8  | 197.5  | 197.5  | 197.5  | 200.1  | 224.1  | 232.1  |
| 95°    | 138.7  | 136.1  | 146.8  | 154.8  | 157.4  | 162.8  | 162.8  | 162.8  | 168.1  | 189.4  | 197.5  |
| 97.5°  | 101.4  | 101.4  | 106.7  | 112.1  | 117.4  | 122.7  | 125.4  | 125.4  | 130.7  | 146.8  | 149.4  |
| 100°   | 72.0   | 72.0   | 77.4   | 82.7   | 85.4   | 93.4   | 96.1   | 96.1   | 96.1   | 106.7  | 106.7  |
| 102.5° | 53.4   | 50.7   | 56.0   | 58.7   | 61.4   | 64.0   | 66.7   | 66.7   | 66.7   | 69.4   | 69.4   |
| 105°   | 32.0   | 32.0   | 34.7   | 37.4   | 40.0   | 40.0   | 42.7   | 42.7   | 40.0   | 40.0   | 40.0   |
| 107.5° | 21.3   | 21.3   | 24.0   | 26.7   | 26.7   | 29.4   | 29.4   | 29.4   | 29.4   | 29.4   | 29.4   |
| 110°   | 16.0   | 16.0   | 18.7   | 21.3   | 21.3   | 24.0   | 24.0   | 24.0   | 24.0   | 21.3   | 21.3   |



REPORT NUMBER: P691645  
 CATALOG NUMBER: CRTK2-C018-5TLD-U-T5R-7050-SR-CARETAKER

**CANDELA DISTRIBUTION (continued):**

|        | 0°   | 5°   | 15°  | 25°  | 35°  | 45°  | 55°  | 65°  | 75°  | 85°  | 90°  |
|--------|------|------|------|------|------|------|------|------|------|------|------|
| 112.5° | 13.3 | 13.3 | 16.0 | 16.0 | 18.7 | 18.7 | 18.7 | 18.7 | 18.7 | 18.7 | 18.7 |
| 115°   | 10.7 | 10.7 | 13.3 | 13.3 | 13.3 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 | 16.0 |
| 117.5° | 8.0  | 8.0  | 10.7 | 10.7 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 | 13.3 |
| 120°   | 8.0  | 8.0  | 8.0  | 10.7 | 10.7 | 10.7 | 10.7 | 10.7 | 10.7 | 10.7 | 10.7 |
| 122.5° | 5.3  | 5.3  | 8.0  | 8.0  | 8.0  | 8.0  | 8.0  | 8.0  | 8.0  | 10.7 | 10.7 |
| 125°   | 5.3  | 5.3  | 5.3  | 8.0  | 8.0  | 8.0  | 8.0  | 8.0  | 8.0  | 8.0  | 8.0  |
| 127.5° | 5.3  | 5.3  | 5.3  | 5.3  | 8.0  | 8.0  | 8.0  | 8.0  | 8.0  | 8.0  | 8.0  |
| 130°   | 5.3  | 5.3  | 5.3  | 5.3  | 5.3  | 5.3  | 5.3  | 5.3  | 5.3  | 8.0  | 8.0  |
| 132.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 135°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 137.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 140°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 142.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 145°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 147.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 150°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 152.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 155°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 157.5° | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 160°   | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  | 0.0  |
| 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  |

(END OF REPORT)