

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: P691609

Luminaire Tested: **CRTK2-C018-5TLD-U-T3-7040-U0-HSS-CRTK2**

Issue Date: 6/13/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P691609  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2301-903-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/13/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CRTK2-C018-5TLD-U-T3-7040-U0-HSS-CRTK2  
Description: CARETAKER AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K LED WITH TYPE III OPTIC AND U0 SHIELD WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7198 lumens  
Efficiency: N/A  
Efficacy: 134.0 lumens/watt  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
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



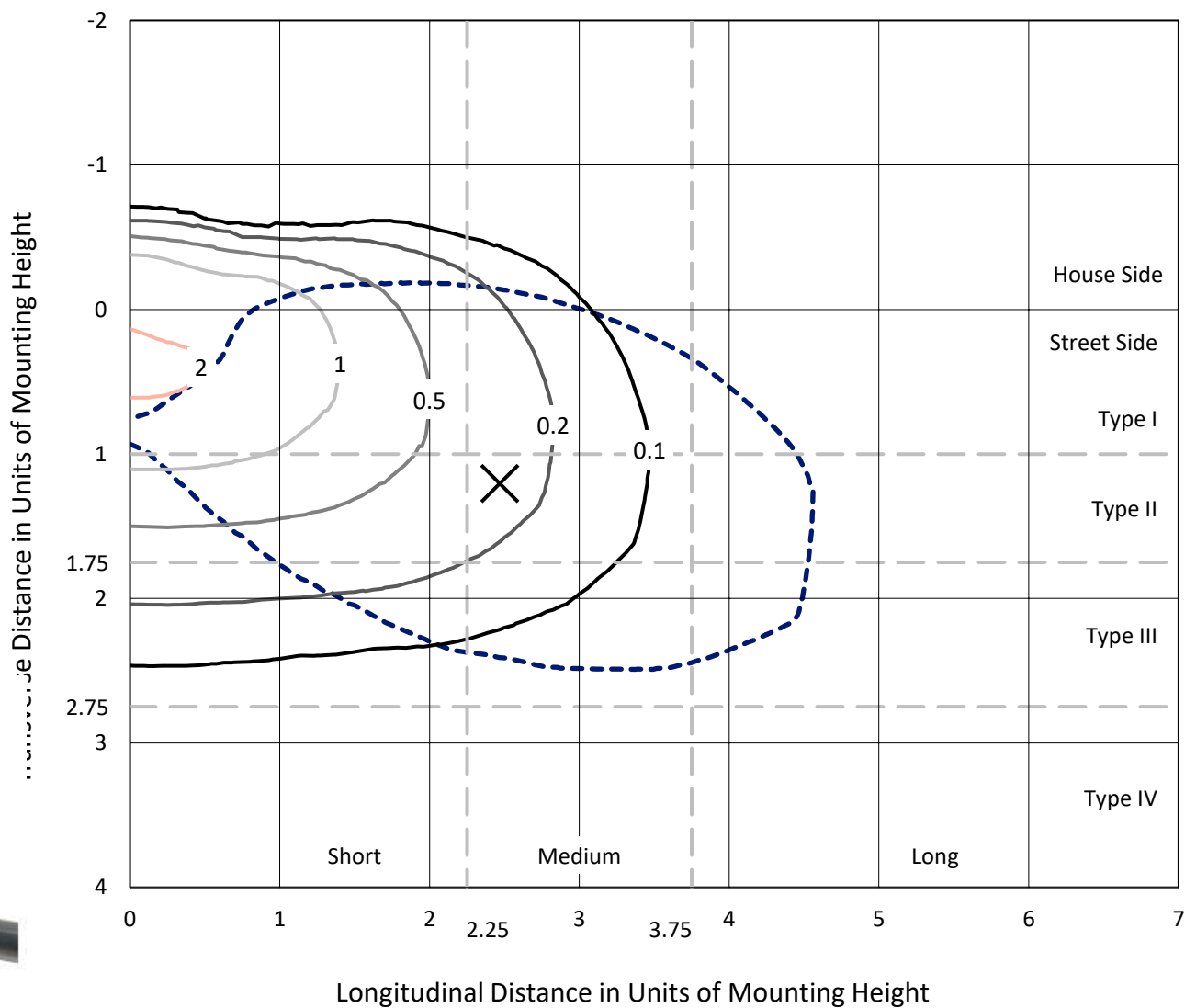
REPORT NUMBER: P691609

CATALOG NUMBER: CRTK2-C018-5TLD-U-T3-7040-U0-HSS-CRTK2

## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

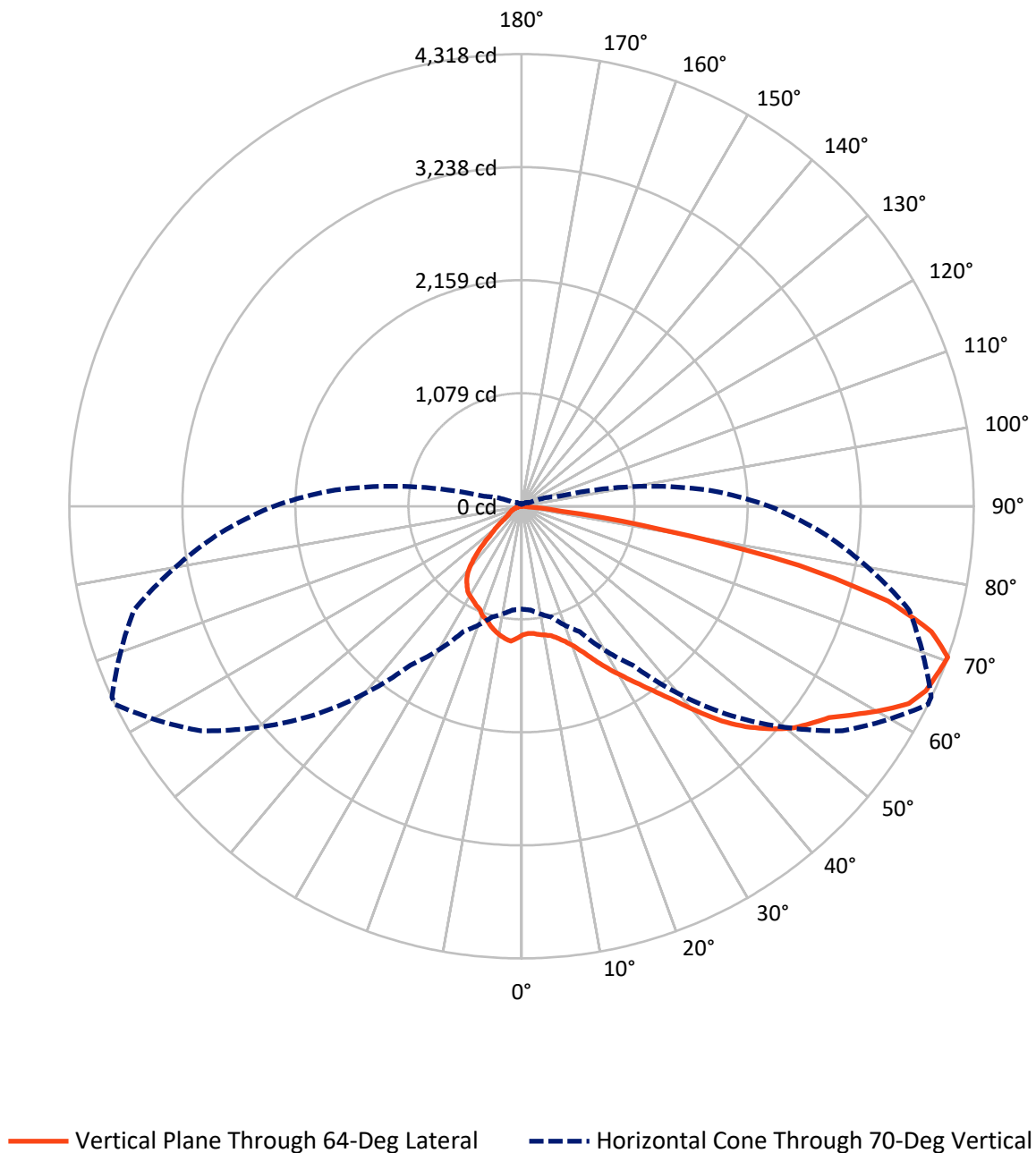


Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type III - Medium - N/A

REPORT NUMBER: P691609

CATALOG NUMBER: CRTK2-C018-5TLD-U-T3-7040-U0-HSS-CRTK2

## Luminous Intensity Polar Plot



REPORT NUMBER: P691609

CATALOG NUMBER: CRTK2-C018-5TLD-U-T3-7040-U0-HSS-CRTK2

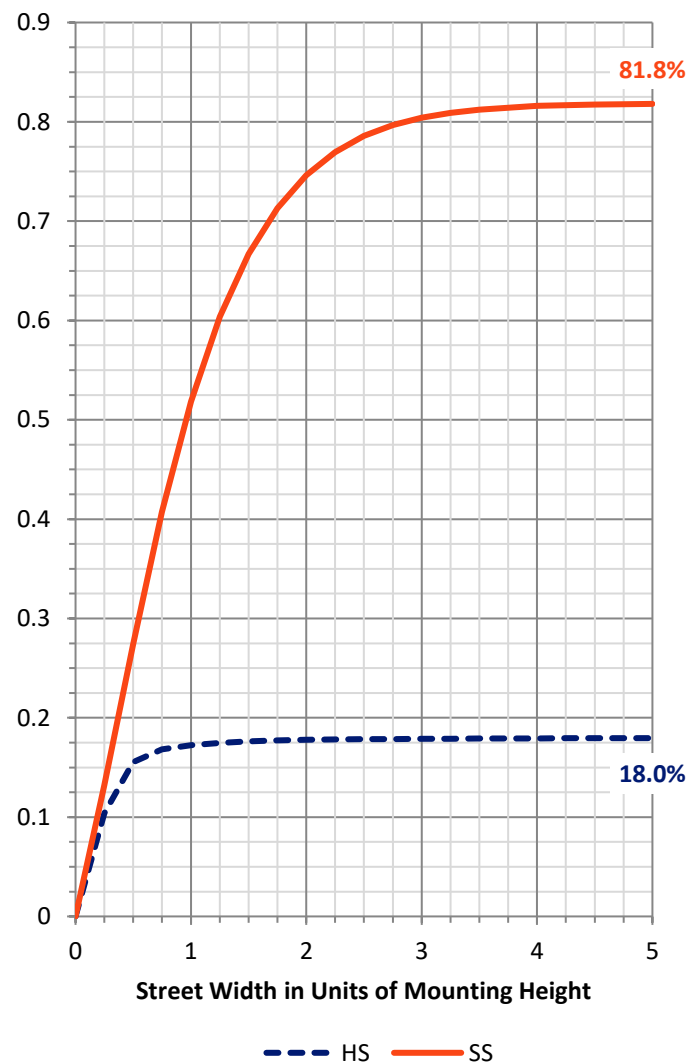
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1308.2   | 0.0    | 1308.2 |
|                    | % Fixture | 18.2     | 0.0    | 18.2   |
| <b>Street Side</b> | Lumens    | 5889.8   | 0.0    | 5889.8 |
|                    | % Fixture | 81.8     | 0.0    | 81.8   |
| <b>Total</b>       | Lumens    | 7198.0   | 0.0    | 7198.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 119.8  | 1.7       |
| 10°-20°   | 354.3  | 4.9       |
| 20°-30°   | 597.0  | 8.3       |
| 30°-40°   | 878.6  | 12.2      |
| 40°-50°   | 1204.9 | 16.7      |
| 50°-60°   | 1466.1 | 20.4      |
| 60°-70°   | 1556.5 | 21.6      |
| 70°-80°   | 954.2  | 13.3      |
| 80°-90°   | 66.6   | 0.9       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 7198.0 | 100.0     |
| 0°-180°   | 7198.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P691609

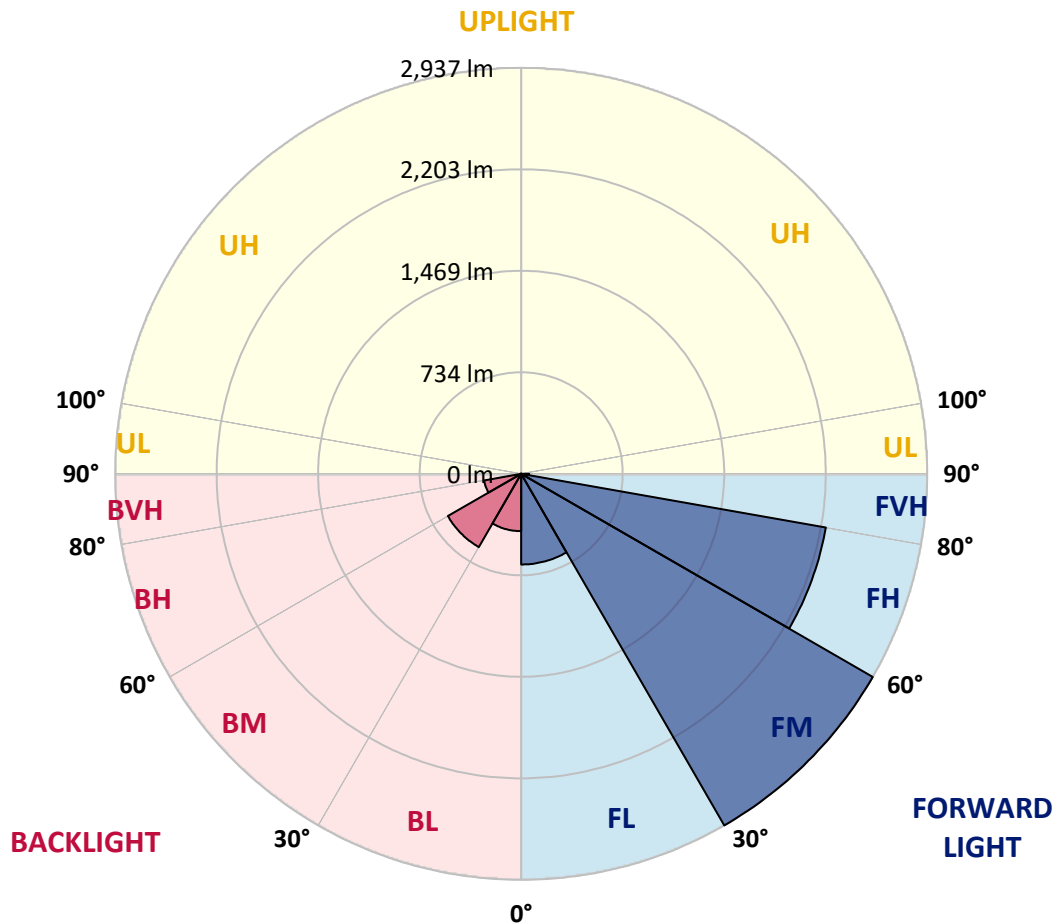
CATALOG NUMBER: CRTK2-C018-5TLD-U-T3-7040-U0-HSS-CRTK2

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 656.1  | 9.1       |                         |      |         |
| FM   | (30°-60°)   | 2937.3 | 40.8      |                         |      |         |
| FH   | (60°-80°)   | 2238.4 | 31.1      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 58.0   | 0.8       |                         |      | G1/100  |
| BL   | (0°-30°)    | 415.0  | 5.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 612.3  | 8.5       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 272.3  | 3.8       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 8.5    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type III Medium



REPORT NUMBER: P691609

CATALOG NUMBER: CRTK2-C018-5TLD-U-T3-7040-U0-HSS-CRTK2

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 64°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1229.1 | 1229.1 | 1229.1 | 1229.1 | 1229.1 | 1229.1 | 1229.1 | 1229.1 | 1229.1 | 1229.1 | 1229.1 |
| 2.5°  | 1215.9 | 1215.9 | 1218.5 | 1215.9 | 1221.1 | 1213.2 | 1215.9 | 1215.9 | 1215.9 | 1218.5 | 1226.4 |
| 5°    | 1252.8 | 1252.8 | 1247.5 | 1239.6 | 1231.7 | 1221.1 | 1221.1 | 1221.1 | 1221.1 | 1226.4 | 1244.9 |
| 7.5°  | 1276.5 | 1273.9 | 1273.9 | 1273.9 | 1266.0 | 1244.9 | 1239.6 | 1237.0 | 1237.0 | 1237.0 | 1255.4 |
| 10°   | 1334.6 | 1326.6 | 1316.1 | 1300.3 | 1292.4 | 1273.9 | 1252.8 | 1250.2 | 1250.2 | 1252.8 | 1276.5 |
| 12.5° | 1389.9 | 1382.0 | 1382.0 | 1371.5 | 1339.8 | 1318.7 | 1281.8 | 1268.6 | 1268.6 | 1273.9 | 1287.1 |
| 15°   | 1482.3 | 1474.3 | 1453.2 | 1434.8 | 1405.8 | 1368.8 | 1331.9 | 1308.2 | 1305.5 | 1316.1 | 1297.6 |
| 17.5° | 1548.2 | 1535.0 | 1537.6 | 1508.6 | 1484.9 | 1432.1 | 1395.2 | 1358.3 | 1358.3 | 1368.8 | 1331.9 |
| 20°   | 1611.5 | 1611.5 | 1614.1 | 1611.5 | 1571.9 | 1529.7 | 1469.1 | 1424.2 | 1426.9 | 1429.5 | 1371.5 |
| 22.5° | 1706.4 | 1703.8 | 1703.8 | 1706.4 | 1680.1 | 1632.6 | 1566.7 | 1516.5 | 1513.9 | 1492.8 | 1421.6 |
| 25°   | 1817.2 | 1811.9 | 1801.4 | 1811.9 | 1798.8 | 1743.4 | 1680.1 | 1630.0 | 1622.0 | 1593.0 | 1495.4 |
| 27.5° | 1909.5 | 1909.5 | 1909.5 | 1914.8 | 1914.8 | 1875.2 | 1804.0 | 1751.3 | 1756.6 | 1717.0 | 1582.5 |
| 30°   | 1975.5 | 1975.5 | 1999.2 | 2009.8 | 2017.7 | 2004.5 | 1928.0 | 1872.6 | 1883.2 | 1835.7 | 1690.6 |
| 32.5° | 2046.7 | 2044.0 | 2075.7 | 2099.4 | 2110.0 | 2115.3 | 2052.0 | 2007.1 | 2009.8 | 1967.6 | 1814.6 |
| 35°   | 2112.6 | 2107.3 | 2149.5 | 2199.6 | 2226.0 | 2220.7 | 2175.9 | 2160.1 | 2165.4 | 2152.2 | 1983.4 |
| 37.5° | 2160.1 | 2168.0 | 2223.4 | 2289.3 | 2331.5 | 2342.1 | 2313.1 | 2342.1 | 2371.1 | 2389.5 | 2202.3 |
| 40°   | 2212.8 | 2212.8 | 2265.6 | 2336.8 | 2402.7 | 2442.3 | 2463.4 | 2568.9 | 2592.6 | 2605.8 | 2331.5 |
| 42.5° | 2160.1 | 2178.5 | 2289.3 | 2392.2 | 2479.2 | 2539.9 | 2626.9 | 2803.6 | 2830.0 | 2748.2 | 2503.0 |
| 45°   | 2115.3 | 2131.1 | 2241.8 | 2415.9 | 2542.5 | 2661.2 | 2819.5 | 3004.1 | 3030.5 | 2890.7 | 2600.5 |
| 47.5° | 2070.4 | 2088.9 | 2204.9 | 2397.5 | 2600.5 | 2795.7 | 2975.1 | 3175.5 | 3188.7 | 3014.6 | 2729.8 |
| 50°   | 2020.3 | 2038.8 | 2160.1 | 2373.7 | 2634.8 | 2940.8 | 3128.0 | 3333.8 | 3336.4 | 3122.8 | 2795.7 |
| 52.5° | 1957.0 | 1980.7 | 2102.1 | 2339.4 | 2663.8 | 3038.4 | 3265.2 | 3449.8 | 3434.0 | 3254.6 | 2874.8 |
| 55°   | 1877.9 | 1904.3 | 2038.8 | 2294.6 | 2679.7 | 3101.7 | 3354.9 | 3563.2 | 3552.7 | 3407.6 | 2977.7 |
| 57.5° | 1788.2 | 1817.2 | 1957.0 | 2226.0 | 2674.4 | 3133.3 | 3447.2 | 3750.5 | 3755.8 | 3534.2 | 3054.2 |
| 60°   | 1685.3 | 1711.7 | 1843.6 | 2136.3 | 2605.8 | 3191.3 | 3645.0 | 3956.2 | 3974.7 | 3674.0 | 3085.8 |
| 62.5° | 1550.8 | 1574.6 | 1701.2 | 2004.5 | 2518.8 | 3233.5 | 3795.3 | 4151.4 | 4143.5 | 3768.9 | 3096.4 |
| 65°   | 1382.0 | 1408.4 | 1527.1 | 1830.4 | 2381.6 | 3207.2 | 3842.8 | 4243.7 | 4243.7 | 3837.5 | 3088.5 |
| 67.5° | 1210.6 | 1234.3 | 1334.6 | 1608.9 | 2160.1 | 3075.3 | 3813.8 | 4280.6 | 4304.3 | 3882.4 | 3017.3 |
| 70°   | 981.1  | 994.3  | 1094.5 | 1321.4 | 1851.5 | 2827.4 | 3739.9 | 4317.5 | 4314.9 | 3832.2 | 2882.8 |
| 72.5° | 720.0  | 735.9  | 817.6  | 991.7  | 1432.1 | 2447.6 | 3507.8 | 4093.4 | 4051.2 | 3563.2 | 2621.6 |
| 75°   | 371.9  | 387.7  | 451.0  | 622.4  | 912.6  | 1727.5 | 2990.9 | 3616.0 | 3608.1 | 3154.4 | 2170.6 |
| 77.5° | 50.1   | 50.1   | 58.0   | 102.9  | 211.0  | 688.4  | 1959.6 | 2708.7 | 2692.9 | 2405.4 | 1577.2 |
| 80°   | 34.3   | 34.3   | 39.6   | 47.5   | 60.7   | 150.3  | 691.0  | 1374.1 | 1397.9 | 1239.6 | 706.8  |
| 82.5° | 26.4   | 23.7   | 29.0   | 34.3   | 36.9   | 68.6   | 211.0  | 379.8  | 385.1  | 345.5  | 216.3  |
| 85°   | 15.8   | 15.8   | 15.8   | 15.8   | 13.2   | 18.5   | 47.5   | 63.3   | 71.2   | 68.6   | 55.4   |
| 87.5° | 7.9    | 7.9    | 7.9    | 5.3    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

REPORT NUMBER: P691609

CATALOG NUMBER: CRTK2-C018-5TLD-U-T3-7040-U0-HSS-CRTK2

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1229.1 | 1229.1 | 1229.1 | 1229.1 | 1229.1 | 1229.1 | 1229.1 | 1229.1 | 1229.1 | 1229.1 | 1229.1 |
| 2.5°  | 1229.1 | 1237.0 | 1247.5 | 1260.7 | 1273.9 | 1284.4 | 1295.0 | 1300.3 | 1305.5 | 1308.2 | 1310.8 |
| 5°    | 1250.2 | 1260.7 | 1273.9 | 1292.4 | 1292.4 | 1284.4 | 1279.2 | 1279.2 | 1284.4 | 1292.4 | 1295.0 |
| 7.5°  | 1271.3 | 1281.8 | 1276.5 | 1273.9 | 1276.5 | 1266.0 | 1252.8 | 1244.9 | 1239.6 | 1239.6 | 1244.9 |
| 10°   | 1279.2 | 1268.6 | 1263.3 | 1250.2 | 1223.8 | 1218.5 | 1208.0 | 1186.9 | 1181.6 | 1186.9 | 1168.4 |
| 12.5° | 1273.9 | 1266.0 | 1239.6 | 1218.5 | 1192.1 | 1147.3 | 1120.9 | 1120.9 | 1107.7 | 1105.1 | 1107.7 |
| 15°   | 1287.1 | 1260.7 | 1229.1 | 1184.2 | 1136.7 | 1099.8 | 1057.6 | 1020.7 | 1010.2 | 1012.8 | 1012.8 |
| 17.5° | 1297.6 | 1271.3 | 1208.0 | 1139.4 | 1097.2 | 1031.3 | 983.8  | 962.7  | 944.2  | 941.6  | 941.6  |
| 20°   | 1321.4 | 1284.4 | 1194.8 | 1120.9 | 1015.4 | 965.3  | 912.6  | 886.2  | 857.2  | 817.6  | 804.4  |
| 22.5° | 1358.3 | 1308.2 | 1186.9 | 1070.8 | 978.5  | 899.4  | 822.9  | 743.8  | 696.3  | 664.6  | 672.6  |
| 25°   | 1408.4 | 1353.0 | 1194.8 | 1052.4 | 923.1  | 822.9  | 722.7  | 614.5  | 543.3  | 522.2  | 535.4  |
| 27.5° | 1498.1 | 1403.1 | 1218.5 | 1026.0 | 883.6  | 733.2  | 582.9  | 487.9  | 422.0  | 400.9  | 408.8  |
| 30°   | 1579.8 | 1479.6 | 1221.1 | 1010.2 | 820.3  | 627.7  | 458.9  | 353.4  | 300.7  | 269.0  | 261.1  |
| 32.5° | 1727.5 | 1561.4 | 1287.1 | 989.1  | 754.3  | 511.7  | 337.6  | 234.7  | 187.3  | 168.8  | 163.5  |
| 35°   | 1872.6 | 1706.4 | 1305.5 | 949.5  | 633.0  | 379.8  | 208.4  | 139.8  | 113.4  | 100.2  | 97.6   |
| 37.5° | 2073.1 | 1883.2 | 1382.0 | 907.3  | 511.7  | 232.1  | 126.6  | 84.4   | 79.1   | 76.5   | 76.5   |
| 40°   | 2173.3 | 1975.5 | 1445.3 | 846.6  | 358.7  | 131.9  | 81.8   | 73.8   | 71.2   | 68.6   | 68.6   |
| 42.5° | 2315.7 | 2081.0 | 1498.1 | 738.5  | 211.0  | 87.0   | 73.8   | 68.6   | 65.9   | 63.3   | 63.3   |
| 45°   | 2394.8 | 2136.3 | 1484.9 | 606.6  | 105.5  | 81.8   | 71.2   | 65.9   | 60.7   | 60.7   | 60.7   |
| 47.5° | 2500.3 | 2218.1 | 1450.6 | 448.4  | 94.9   | 79.1   | 68.6   | 63.3   | 60.7   | 63.3   | 60.7   |
| 50°   | 2600.5 | 2297.2 | 1355.7 | 356.1  | 92.3   | 76.5   | 68.6   | 60.7   | 60.7   | 60.7   | 60.7   |
| 52.5° | 2655.9 | 2371.1 | 1237.0 | 261.1  | 94.9   | 76.5   | 65.9   | 60.7   | 60.7   | 58.0   | 60.7   |
| 55°   | 2708.7 | 2381.6 | 1142.0 | 189.9  | 94.9   | 73.8   | 63.3   | 58.0   | 55.4   | 52.7   | 52.7   |
| 57.5° | 2745.6 | 2357.9 | 1065.5 | 158.2  | 94.9   | 73.8   | 60.7   | 55.4   | 47.5   | 44.8   | 44.8   |
| 60°   | 2735.1 | 2299.9 | 1002.2 | 145.1  | 89.7   | 68.6   | 55.4   | 47.5   | 42.2   | 36.9   | 36.9   |
| 62.5° | 2706.0 | 2265.6 | 886.2  | 126.6  | 81.8   | 63.3   | 50.1   | 39.6   | 34.3   | 31.6   | 31.6   |
| 65°   | 2679.7 | 2157.4 | 751.7  | 113.4  | 76.5   | 55.4   | 42.2   | 34.3   | 29.0   | 26.4   | 26.4   |
| 67.5° | 2553.1 | 2015.0 | 559.1  | 97.6   | 68.6   | 50.1   | 36.9   | 31.6   | 26.4   | 23.7   | 21.1   |
| 70°   | 2365.8 | 1785.6 | 366.6  | 84.4   | 60.7   | 42.2   | 31.6   | 26.4   | 21.1   | 18.5   | 18.5   |
| 72.5° | 2046.7 | 1474.3 | 189.9  | 68.6   | 50.1   | 36.9   | 29.0   | 23.7   | 18.5   | 15.8   | 15.8   |
| 75°   | 1661.6 | 1084.0 | 113.4  | 52.7   | 39.6   | 31.6   | 23.7   | 18.5   | 15.8   | 13.2   | 13.2   |
| 77.5° | 1149.9 | 598.7  | 81.8   | 39.6   | 26.4   | 23.7   | 18.5   | 15.8   | 13.2   | 10.5   | 10.5   |
| 80°   | 387.7  | 163.5  | 58.0   | 29.0   | 18.5   | 18.5   | 13.2   | 10.5   | 10.5   | 7.9    | 7.9    |
| 82.5° | 153.0  | 100.2  | 39.6   | 21.1   | 15.8   | 13.2   | 10.5   | 7.9    | 7.9    | 7.9    | 7.9    |
| 85°   | 42.2   | 29.0   | 15.8   | 10.5   | 7.9    | 7.9    | 7.9    | 5.3    | 5.3    | 5.3    | 5.3    |
| 87.5° | 2.6    | 5.3    | 5.3    | 5.3    | 5.3    | 5.3    | 2.6    | 2.6    | 2.6    | 2.6    | 2.6    |
| 90°   | 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)