

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: P200223

Luminaire Tested: **GAP-AF-01-LED-U-5MQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200223
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-AF-01-LED-U-5MQ-7050
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6678 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

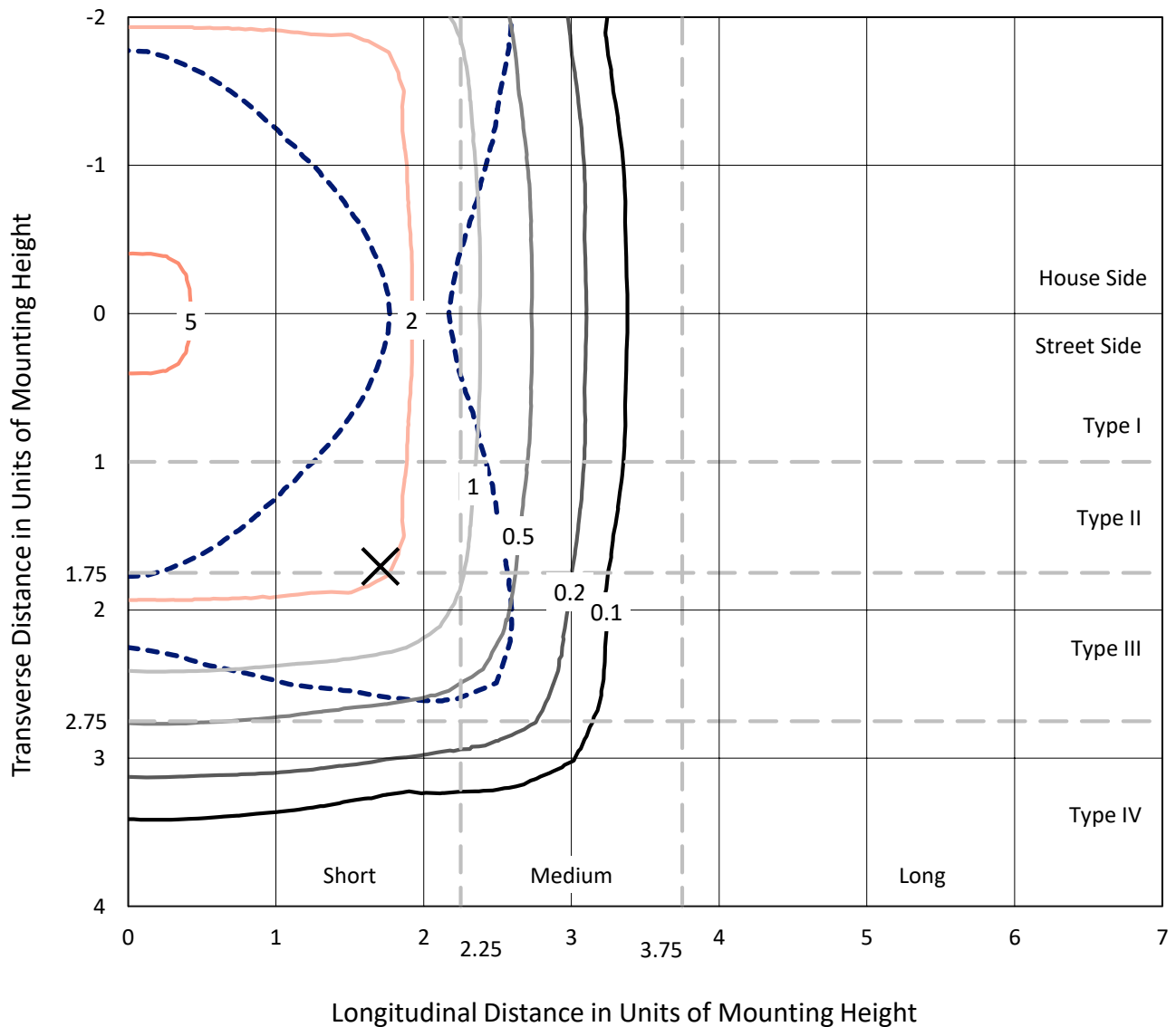
Input Watts (W): 59
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

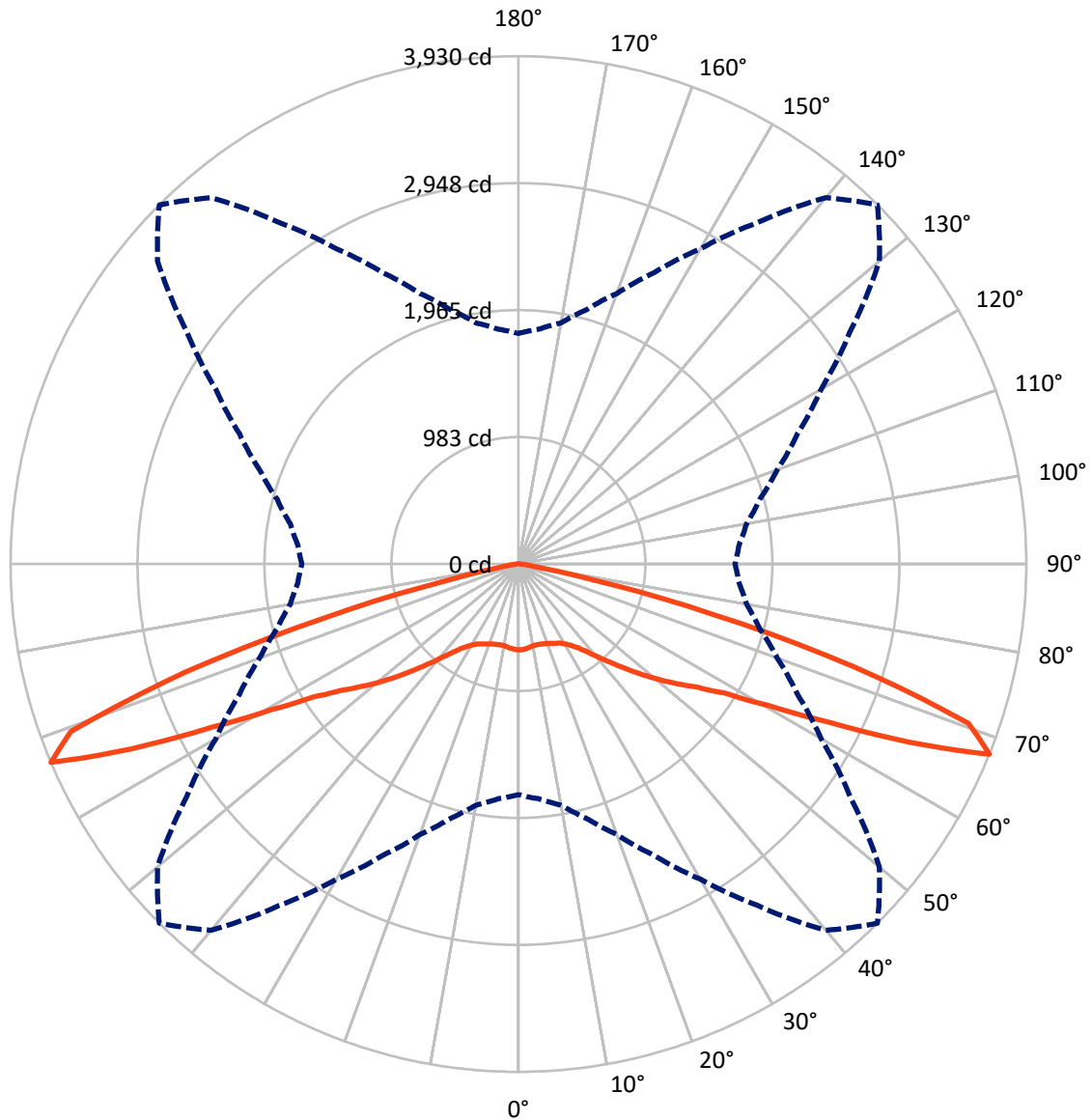
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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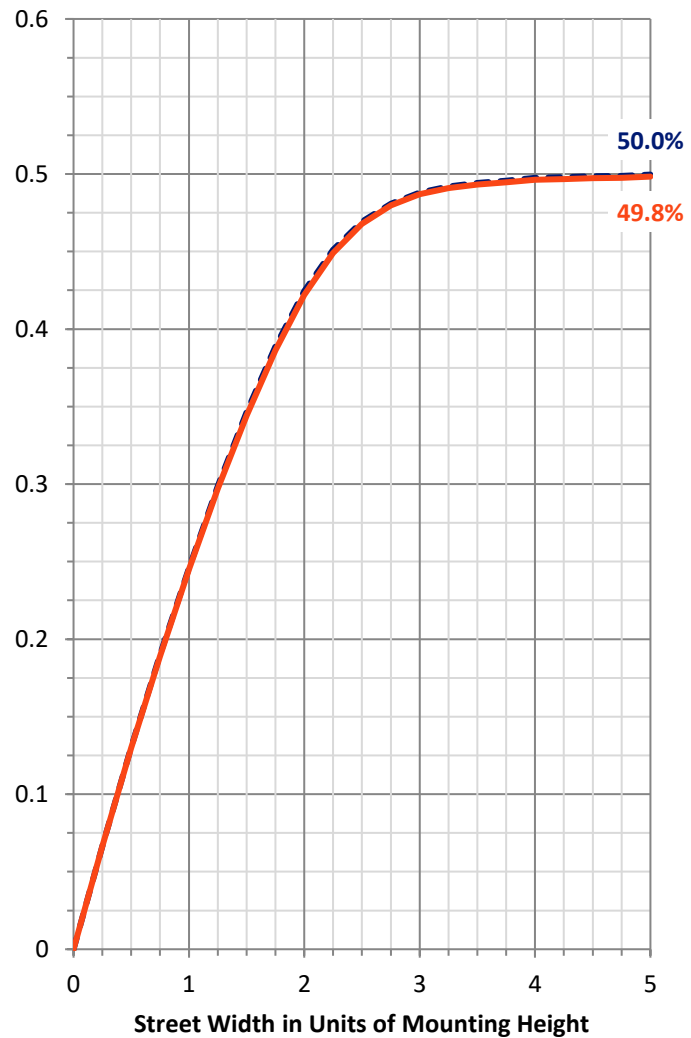
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3339.0 | 0.0 | 3339.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3339.0 | 0.0 | 3339.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6678.0 | 0.0 | 6678.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 62.3 | 0.9 |
| 10°-20° | 180.7 | 2.7 |
| 20°-30° | 307.3 | 4.6 |
| 30°-40° | 502.3 | 7.5 |
| 40°-50° | 896.7 | 13.4 |
| 50°-60° | 1511.8 | 22.6 |
| 60°-70° | 2346.1 | 35.1 |
| 70°-80° | 824.3 | 12.3 |
| 80°-90° | 46.6 | 0.7 |
| 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° | 6678.0 | 100.0 |
| 0°-180° | 6678.0 | 100.0 |



--- HS — SS

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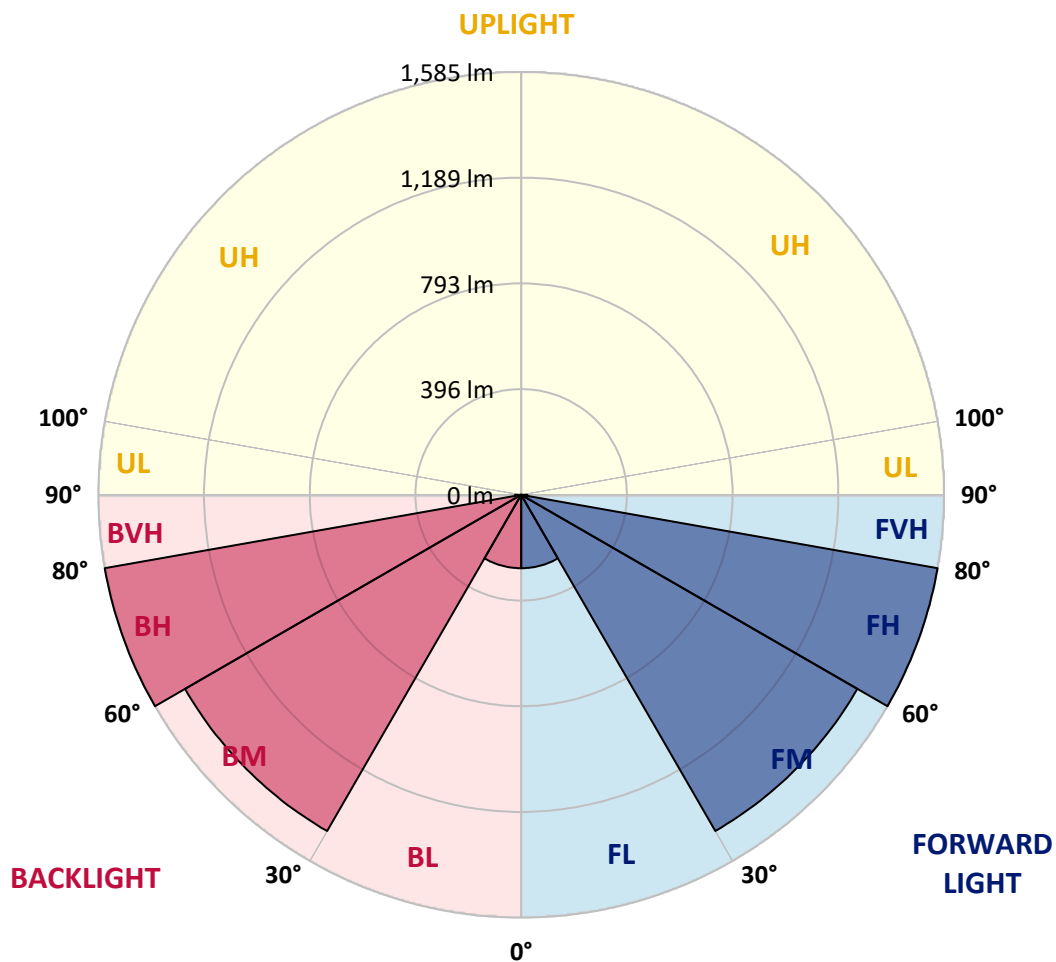
CATALOG NUMBER: GAP-AF-01-LED-U-5MQ-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 275.1 | 4.1 | | | |
| FM | (30°-60°) | 1455.4 | 21.8 | | | |
| FH | (60°-80°) | 1585.2 | 23.7 | | | G1/1800 |
| FVH | (80°-90°) | 23.3 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 275.1 | 4.1 | B1/500 | | |
| BM | (30°-60°) | 1455.4 | 21.8 | B2/2500 | | |
| BH | (60°-80°) | 1585.2 | 23.7 | B3/2500 | | G1/1800 |
| BVH | (80°-90°) | 23.3 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 665.5 | 665.5 | 665.5 | 665.5 | 665.5 | 665.5 | 665.5 | 665.5 | 665.5 | 665.5 | 665.5 |
| 2.5° | 663.0 | 663.6 | 663.6 | 663.6 | 663.3 | 663.3 | 662.7 | 663.3 | 663.0 | 662.1 | 662.4 |
| 5° | 657.5 | 658.1 | 658.1 | 657.8 | 658.7 | 658.4 | 657.5 | 658.1 | 657.8 | 657.2 | 657.5 |
| 7.5° | 649.5 | 650.4 | 650.4 | 650.1 | 651.1 | 650.7 | 650.1 | 650.4 | 650.4 | 649.5 | 649.5 |
| 10° | 640.6 | 641.2 | 641.2 | 640.9 | 642.5 | 642.5 | 642.2 | 643.1 | 643.4 | 642.5 | 641.8 |
| 12.5° | 632.3 | 633.2 | 633.2 | 634.5 | 636.0 | 636.6 | 638.2 | 639.4 | 640.6 | 640.3 | 639.1 |
| 15° | 627.4 | 628.0 | 629.3 | 630.8 | 633.2 | 635.4 | 637.9 | 640.6 | 643.1 | 643.7 | 641.8 |
| 17.5° | 624.3 | 625.3 | 627.1 | 629.3 | 632.6 | 636.3 | 640.0 | 643.7 | 647.1 | 648.3 | 646.1 |
| 20° | 623.4 | 624.0 | 625.9 | 629.6 | 634.2 | 639.7 | 644.9 | 649.2 | 653.8 | 655.4 | 653.8 |
| 22.5° | 625.3 | 626.5 | 628.6 | 632.9 | 639.1 | 646.1 | 652.3 | 658.1 | 664.0 | 666.7 | 664.6 |
| 25° | 633.6 | 634.8 | 637.5 | 643.1 | 649.8 | 657.2 | 664.3 | 671.0 | 676.2 | 679.0 | 677.5 |
| 27.5° | 648.9 | 650.4 | 653.8 | 659.3 | 666.7 | 674.7 | 682.4 | 687.9 | 692.2 | 693.1 | 691.3 |
| 30° | 671.9 | 675.3 | 679.3 | 685.5 | 694.1 | 700.8 | 708.5 | 713.4 | 718.6 | 718.6 | 717.1 |
| 32.5° | 707.9 | 711.2 | 715.5 | 721.4 | 728.1 | 735.5 | 742.3 | 746.6 | 752.1 | 752.4 | 748.7 |
| 35° | 761.6 | 763.1 | 766.8 | 770.5 | 776.7 | 783.1 | 788.9 | 791.7 | 796.3 | 796.6 | 793.2 |
| 37.5° | 832.6 | 832.9 | 835.3 | 836.5 | 842.1 | 849.1 | 854.7 | 856.5 | 860.8 | 860.2 | 856.8 |
| 40° | 915.2 | 916.7 | 917.6 | 919.5 | 925.3 | 932.1 | 937.9 | 938.8 | 943.4 | 942.5 | 938.2 |
| 42.5° | 1010.7 | 1011.3 | 1016.5 | 1019.3 | 1024.8 | 1028.2 | 1035.5 | 1036.5 | 1042.0 | 1039.5 | 1034.6 |
| 45° | 1117.9 | 1123.4 | 1128.3 | 1133.8 | 1139.7 | 1143.6 | 1149.5 | 1148.3 | 1151.9 | 1148.3 | 1145.5 |
| 47.5° | 1230.6 | 1234.6 | 1245.6 | 1254.2 | 1263.7 | 1267.1 | 1275.4 | 1271.7 | 1275.4 | 1270.2 | 1269.3 |
| 50° | 1354.6 | 1361.7 | 1371.2 | 1381.0 | 1391.2 | 1396.7 | 1407.5 | 1402.8 | 1407.8 | 1402.8 | 1400.1 |
| 52.5° | 1476.9 | 1478.7 | 1499.6 | 1514.0 | 1528.1 | 1534.6 | 1541.0 | 1538.9 | 1539.2 | 1538.9 | 1536.1 |
| 55° | 1592.9 | 1597.2 | 1618.1 | 1637.8 | 1662.3 | 1680.5 | 1691.5 | 1690.3 | 1687.5 | 1684.8 | 1680.2 |
| 57.5° | 1723.8 | 1728.1 | 1752.0 | 1776.3 | 1804.2 | 1830.0 | 1852.4 | 1875.5 | 1884.4 | 1886.8 | 1876.7 |
| 60° | 1900.7 | 1900.3 | 1932.3 | 1961.8 | 2001.7 | 2040.1 | 2089.2 | 2139.3 | 2196.7 | 2223.4 | 2188.1 |
| 62.5° | 2080.6 | 2088.0 | 2134.1 | 2186.3 | 2268.6 | 2348.7 | 2439.3 | 2528.4 | 2619.3 | 2693.3 | 2614.7 |
| 65° | 2059.1 | 2087.4 | 2155.9 | 2274.1 | 2426.1 | 2606.7 | 2802.0 | 3008.7 | 3195.4 | 3323.8 | 3179.7 |
| 67.5° | 1784.6 | 1824.8 | 1894.5 | 2038.2 | 2228.3 | 2488.8 | 2816.7 | 3225.5 | 3700.6 | 3930.3 | 3645.6 |
| 70° | 1293.5 | 1339.0 | 1412.1 | 1552.4 | 1740.7 | 1988.2 | 2344.4 | 2835.2 | 3464.1 | 3695.7 | 3382.1 |
| 72.5° | 643.7 | 668.3 | 713.4 | 802.8 | 945.3 | 1146.1 | 1469.2 | 1940.9 | 2497.4 | 2709.9 | 2423.3 |
| 75° | 218.7 | 230.0 | 237.7 | 266.9 | 312.0 | 390.9 | 551.6 | 848.5 | 1294.4 | 1551.8 | 1276.0 |
| 77.5° | 126.2 | 126.5 | 131.7 | 137.0 | 144.6 | 153.2 | 174.7 | 229.4 | 396.8 | 563.5 | 410.6 |
| 80° | 81.7 | 81.4 | 85.7 | 89.7 | 94.9 | 99.2 | 100.4 | 106.3 | 122.5 | 145.3 | 129.9 |
| 82.5° | 42.4 | 47.6 | 57.1 | 62.3 | 72.2 | 74.0 | 71.6 | 69.4 | 73.4 | 76.2 | 78.0 |
| 85° | 23.3 | 20.3 | 30.4 | 39.3 | 43.6 | 44.2 | 44.2 | 41.8 | 43.3 | 42.4 | 46.1 |
| 87.5° | 10.7 | 9.8 | 12.0 | 19.3 | 20.6 | 17.5 | 18.4 | 16.3 | 11.7 | 11.4 | 12.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 665.5 | 665.5 | 665.5 | 665.5 | 665.5 | 665.5 | 665.5 | 665.5 |
| 2.5° | 662.4 | 662.7 | 662.7 | 663.6 | 664.0 | 664.6 | 665.2 | 665.5 |
| 5° | 657.2 | 658.1 | 657.5 | 658.4 | 658.4 | 659.0 | 659.0 | 659.3 |
| 7.5° | 649.5 | 650.4 | 650.4 | 650.4 | 650.1 | 651.1 | 651.1 | 651.1 |
| 10° | 641.5 | 642.2 | 641.8 | 641.2 | 640.6 | 641.5 | 641.2 | 640.9 |
| 12.5° | 639.1 | 637.5 | 636.3 | 635.7 | 634.5 | 634.8 | 633.9 | 633.9 |
| 15° | 640.6 | 637.9 | 635.7 | 634.8 | 633.6 | 632.9 | 632.3 | 632.6 |
| 17.5° | 644.6 | 641.2 | 638.5 | 636.9 | 635.4 | 634.5 | 633.2 | 633.6 |
| 20° | 651.7 | 647.7 | 643.7 | 640.6 | 637.9 | 636.3 | 635.4 | 635.1 |
| 22.5° | 662.1 | 656.3 | 650.4 | 645.8 | 642.2 | 640.0 | 639.1 | 638.5 |
| 25° | 674.1 | 667.6 | 660.9 | 655.7 | 652.0 | 649.2 | 647.4 | 647.4 |
| 27.5° | 689.1 | 683.9 | 677.8 | 671.6 | 668.3 | 665.5 | 664.3 | 663.6 |
| 30° | 714.3 | 709.4 | 704.5 | 698.7 | 694.4 | 691.6 | 689.4 | 687.6 |
| 32.5° | 746.6 | 742.6 | 738.6 | 734.3 | 730.3 | 726.6 | 723.2 | 721.7 |
| 35° | 792.0 | 788.9 | 786.2 | 781.3 | 779.7 | 777.6 | 775.7 | 774.2 |
| 37.5° | 854.7 | 853.4 | 853.4 | 848.2 | 847.0 | 846.1 | 844.2 | 844.5 |
| 40° | 937.0 | 938.2 | 936.7 | 934.8 | 933.9 | 931.4 | 931.4 | 933.6 |
| 42.5° | 1034.3 | 1035.2 | 1038.6 | 1035.5 | 1038.9 | 1035.9 | 1034.0 | 1035.5 |
| 45° | 1147.3 | 1150.7 | 1157.5 | 1154.4 | 1156.5 | 1151.3 | 1144.9 | 1145.2 |
| 47.5° | 1274.2 | 1277.2 | 1280.0 | 1277.9 | 1278.2 | 1269.6 | 1261.0 | 1258.8 |
| 50° | 1405.9 | 1407.1 | 1408.7 | 1405.6 | 1406.2 | 1396.7 | 1386.9 | 1387.2 |
| 52.5° | 1536.1 | 1542.0 | 1548.1 | 1539.8 | 1538.0 | 1527.2 | 1513.4 | 1507.9 |
| 55° | 1685.1 | 1693.4 | 1686.3 | 1671.9 | 1657.4 | 1643.0 | 1624.9 | 1621.8 |
| 57.5° | 1868.7 | 1854.6 | 1832.5 | 1805.1 | 1785.2 | 1764.9 | 1746.5 | 1738.8 |
| 60° | 2124.2 | 2071.1 | 2031.2 | 1990.6 | 1965.1 | 1940.3 | 1916.0 | 1912.3 |
| 62.5° | 2485.4 | 2393.6 | 2314.0 | 2230.2 | 2161.7 | 2108.3 | 2065.6 | 2053.6 |
| 65° | 2938.0 | 2720.9 | 2532.7 | 2357.0 | 2204.4 | 2089.2 | 2016.7 | 1984.8 |
| 67.5° | 3132.8 | 2704.0 | 2381.3 | 2131.9 | 1932.3 | 1792.9 | 1714.6 | 1675.6 |
| 70° | 2752.9 | 2242.5 | 1891.4 | 1641.8 | 1460.0 | 1311.3 | 1240.4 | 1198.6 |
| 72.5° | 1893.9 | 1426.5 | 1128.0 | 920.7 | 775.4 | 651.1 | 601.9 | 598.2 |
| 75° | 850.4 | 563.2 | 388.2 | 299.1 | 251.8 | 219.0 | 208.8 | 201.2 |
| 77.5° | 238.0 | 176.0 | 156.9 | 146.8 | 137.0 | 125.6 | 121.3 | 122.2 |
| 80° | 115.8 | 109.3 | 105.0 | 98.6 | 89.7 | 80.2 | 75.9 | 77.7 |
| 82.5° | 76.8 | 75.9 | 78.6 | 74.0 | 61.1 | 51.9 | 43.6 | 39.9 |
| 85° | 46.7 | 47.3 | 48.2 | 48.5 | 41.2 | 28.9 | 19.7 | 22.1 |
| 87.5° | 18.4 | 21.2 | 23.0 | 24.0 | 22.4 | 13.8 | 11.1 | 11.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)