

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: P140518

Luminaire Tested: **CEM-E03-LED-E-U-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P140518
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33687)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CEM-E03-LED-E-U-5WQ-8030
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7563.9 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

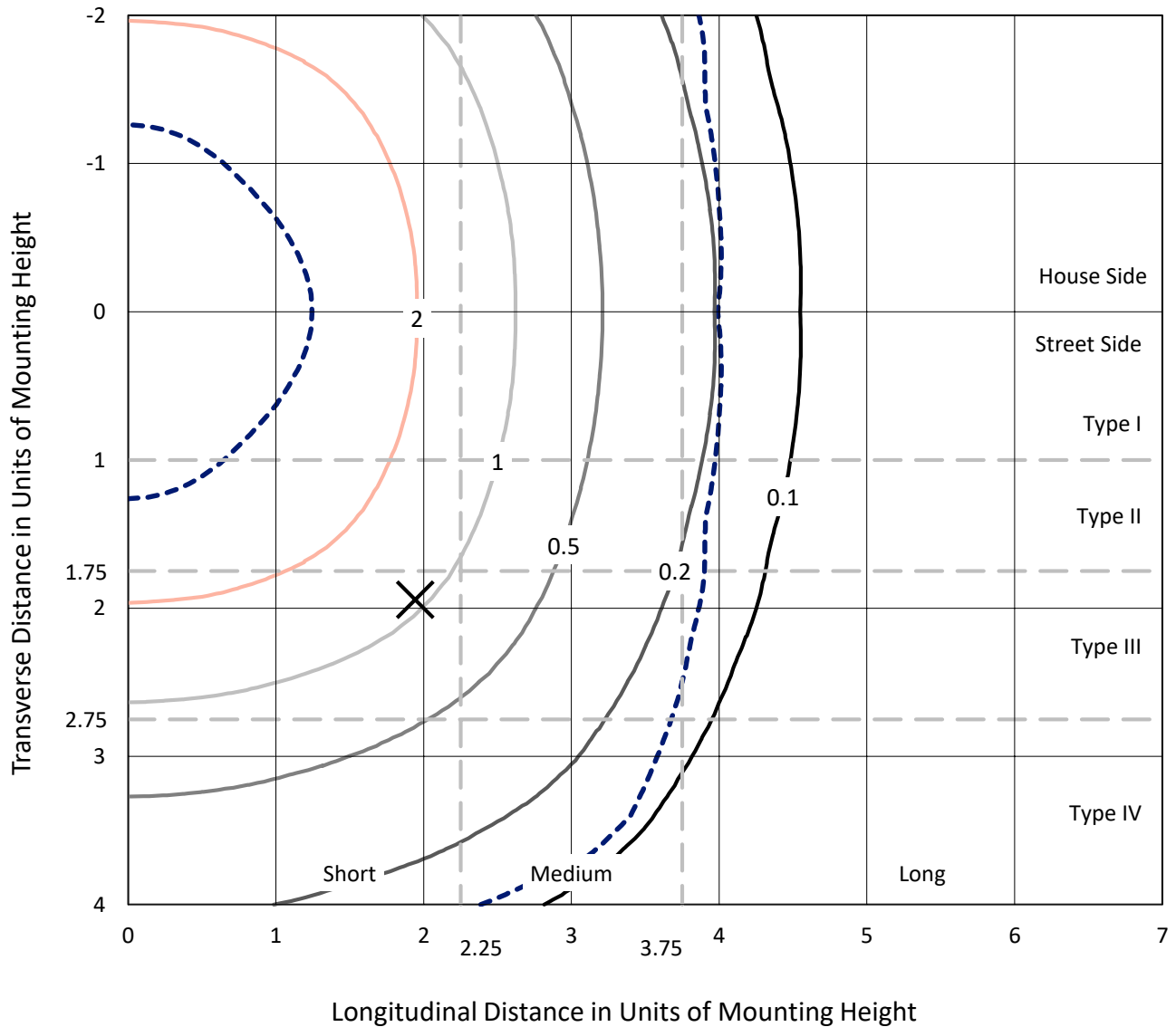
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

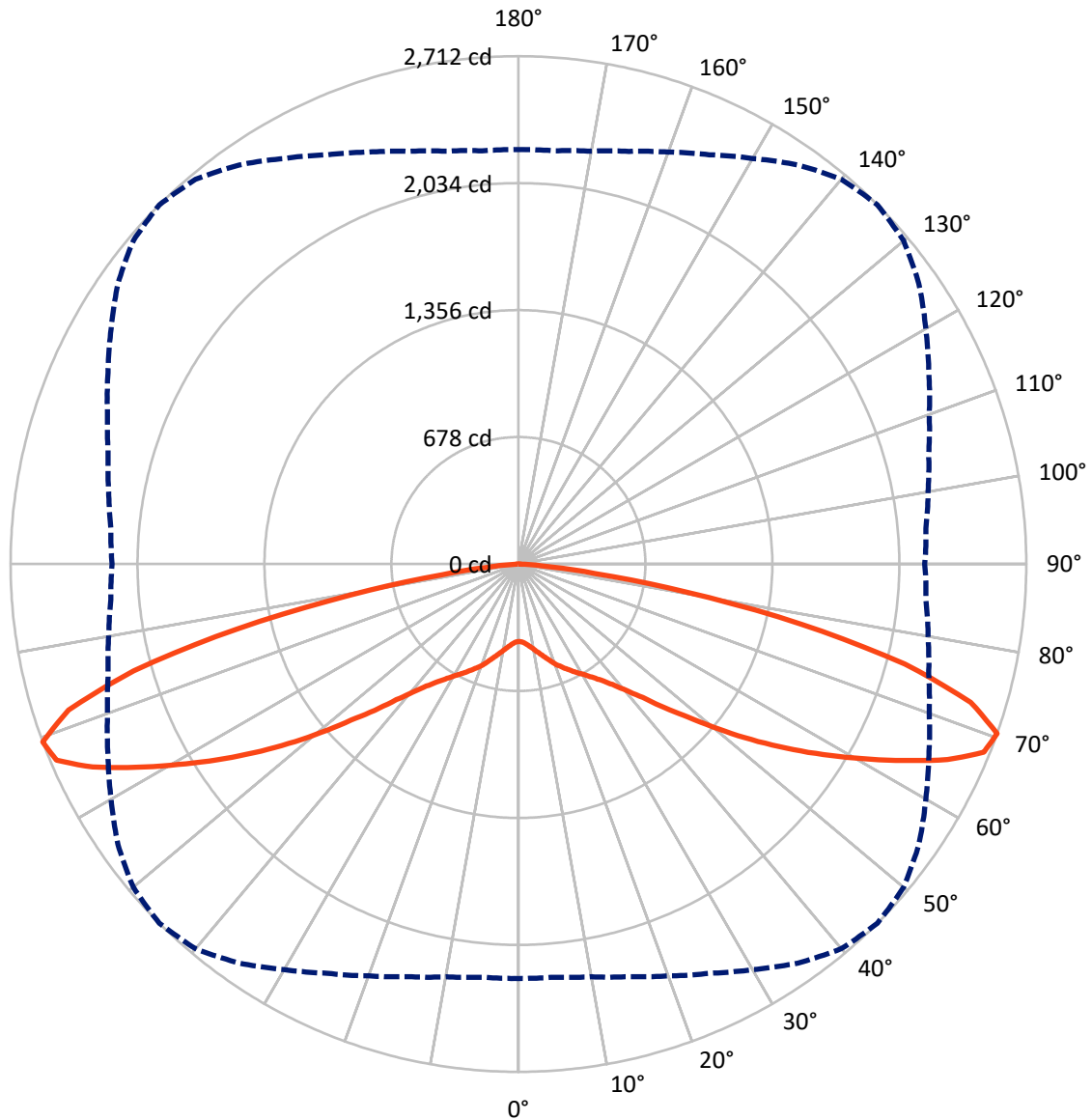
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3781.9 | 0.0 | 3781.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3781.9 | 0.0 | 3781.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7563.9 | 0.0 | 7563.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 41.9 | 0.6 |
| 10°-20° | 146.5 | 1.9 |
| 20°-30° | 287.8 | 3.8 |
| 30°-40° | 476.2 | 6.3 |
| 40°-50° | 833.6 | 11.0 |
| 50°-60° | 1486.8 | 19.7 |
| 60°-70° | 2295.4 | 30.3 |
| 70°-80° | 1817.0 | 24.0 |
| 80°-90° | 178.8 | 2.4 |
| 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° | 7563.9 | 100.0 |
| 0°-180° | 7563.9 | 100.0 |



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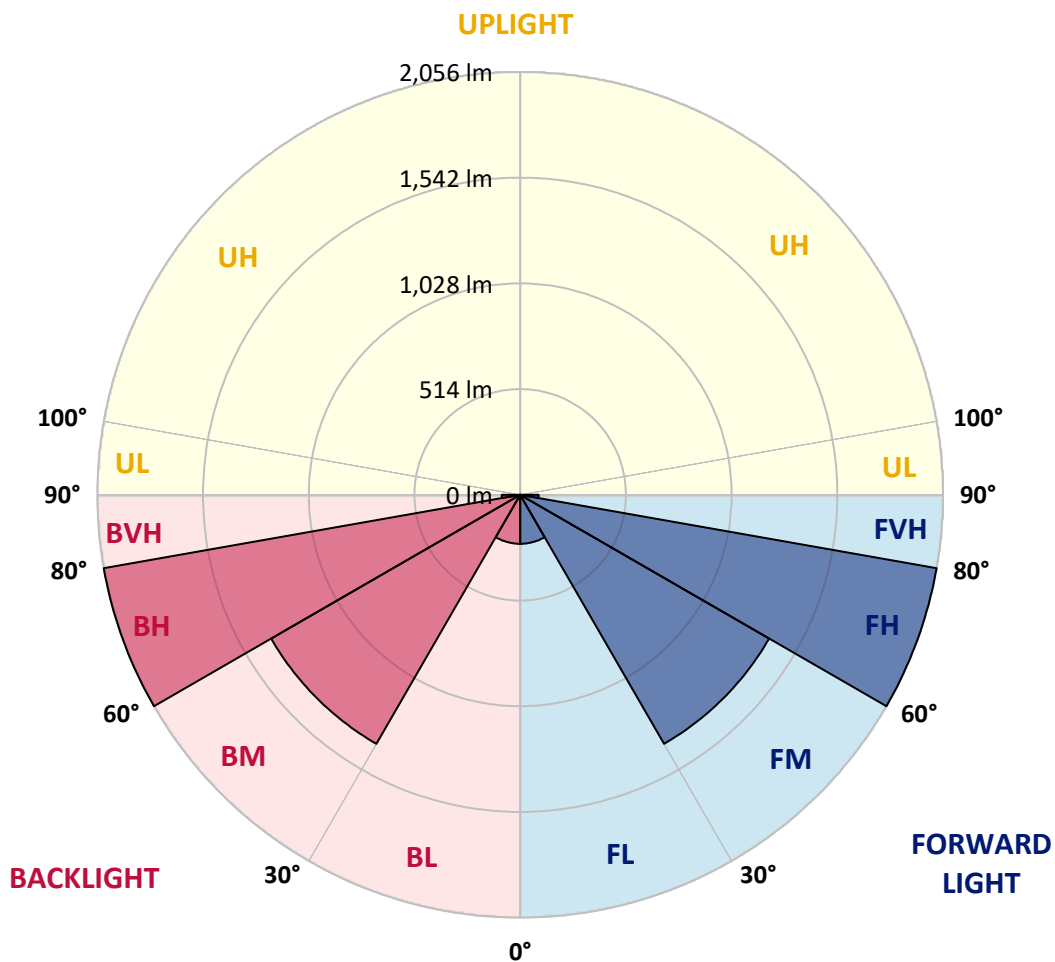
CATALOG NUMBER: CEM-E03-LED-E-U-5WQ-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 238.1 | 3.1 | | | |
| FM | (30°-60°) | 1398.3 | 18.5 | | | |
| FH | (60°-80°) | 2056.2 | 27.2 | | | G2/5000 |
| FVH | (80°-90°) | 89.4 | 1.2 | | | G1/100 |
| BL | (0°-30°) | 238.1 | 3.1 | B1/500 | | |
| BM | (30°-60°) | 1398.3 | 18.5 | B2/2500 | | |
| BH | (60°-80°) | 2056.2 | 27.2 | B3/2500 | | G2/5000 |
| BVH | (80°-90°) | 89.4 | 1.2 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 413.6 | 413.6 | 413.6 | 413.6 | 413.6 | 413.6 | 413.6 | 413.6 | 413.6 | 413.6 | 413.6 |
| 2.5° | 418.6 | 418.6 | 417.8 | 417.8 | 417.8 | 417.8 | 416.9 | 416.9 | 417.8 | 416.9 | 416.9 |
| 5° | 428.7 | 429.6 | 429.6 | 428.7 | 428.7 | 428.7 | 428.7 | 428.7 | 429.6 | 428.7 | 428.7 |
| 7.5° | 443.9 | 444.8 | 444.8 | 443.9 | 443.9 | 443.9 | 443.9 | 443.9 | 444.8 | 444.8 | 443.1 |
| 10° | 462.5 | 463.4 | 463.4 | 462.5 | 462.5 | 463.4 | 463.4 | 463.4 | 464.2 | 464.2 | 463.4 |
| 12.5° | 484.5 | 485.3 | 486.1 | 485.3 | 486.1 | 486.1 | 487.0 | 487.8 | 487.8 | 487.8 | 486.1 |
| 15° | 509.8 | 512.3 | 510.6 | 510.6 | 511.5 | 512.3 | 512.3 | 514.8 | 514.0 | 513.1 | 512.3 |
| 17.5° | 539.3 | 538.5 | 538.5 | 539.3 | 540.2 | 539.3 | 540.2 | 542.7 | 541.8 | 541.0 | 540.2 |
| 20° | 567.2 | 567.2 | 567.2 | 566.3 | 568.0 | 568.0 | 568.8 | 569.7 | 569.7 | 571.4 | 568.8 |
| 22.5° | 594.2 | 594.2 | 593.3 | 593.3 | 595.0 | 595.0 | 596.7 | 598.4 | 598.4 | 598.4 | 596.7 |
| 25° | 619.5 | 619.5 | 620.3 | 619.5 | 620.3 | 621.2 | 622.9 | 624.6 | 625.4 | 625.4 | 625.4 |
| 27.5° | 642.3 | 644.8 | 644.0 | 644.8 | 646.5 | 648.2 | 649.9 | 652.4 | 654.1 | 654.9 | 652.4 |
| 30° | 671.0 | 671.0 | 670.1 | 671.0 | 672.7 | 675.2 | 678.6 | 682.8 | 682.8 | 683.6 | 683.6 |
| 32.5° | 701.4 | 702.2 | 700.5 | 702.2 | 704.7 | 708.1 | 711.5 | 714.9 | 716.5 | 719.9 | 719.1 |
| 35° | 741.0 | 738.5 | 739.3 | 741.9 | 743.6 | 746.9 | 751.2 | 757.1 | 760.4 | 762.1 | 760.4 |
| 37.5° | 786.6 | 785.8 | 787.4 | 787.4 | 793.4 | 796.7 | 804.3 | 809.4 | 811.9 | 816.1 | 814.5 |
| 40° | 844.0 | 847.4 | 848.2 | 850.7 | 854.1 | 860.9 | 869.3 | 877.8 | 882.8 | 886.2 | 887.0 |
| 42.5° | 921.6 | 923.3 | 920.0 | 929.2 | 938.5 | 942.7 | 952.9 | 964.7 | 972.3 | 974.8 | 975.7 |
| 45° | 1017.0 | 1017.0 | 1022.1 | 1028.0 | 1039.8 | 1048.2 | 1059.2 | 1078.6 | 1085.4 | 1094.7 | 1094.7 |
| 47.5° | 1130.9 | 1134.3 | 1134.3 | 1147.8 | 1157.1 | 1174.0 | 1195.1 | 1211.1 | 1225.5 | 1221.3 | 1235.6 |
| 50° | 1262.6 | 1265.1 | 1274.4 | 1282.0 | 1298.1 | 1317.5 | 1336.9 | 1360.5 | 1381.6 | 1384.1 | 1386.7 |
| 52.5° | 1400.2 | 1403.6 | 1411.2 | 1428.9 | 1448.3 | 1470.2 | 1505.7 | 1525.9 | 1546.2 | 1557.2 | 1555.5 |
| 55° | 1558.0 | 1556.3 | 1569.0 | 1582.5 | 1611.2 | 1640.7 | 1670.3 | 1699.0 | 1720.1 | 1735.2 | 1734.4 |
| 57.5° | 1723.4 | 1729.3 | 1743.7 | 1760.6 | 1785.0 | 1811.2 | 1846.7 | 1875.3 | 1910.0 | 1919.2 | 1905.7 |
| 60° | 1915.9 | 1910.0 | 1924.3 | 1950.5 | 1972.4 | 2006.2 | 2037.4 | 2074.5 | 2099.0 | 2110.0 | 2105.8 |
| 62.5° | 2112.5 | 2107.4 | 2118.4 | 2152.2 | 2178.3 | 2202.8 | 2245.9 | 2286.4 | 2306.6 | 2310.8 | 2303.3 |
| 65° | 2256.8 | 2258.5 | 2276.2 | 2305.8 | 2347.1 | 2384.3 | 2432.4 | 2481.3 | 2513.4 | 2518.5 | 2501.6 |
| 67.5° | 2290.6 | 2294.0 | 2318.4 | 2356.4 | 2407.9 | 2469.5 | 2541.3 | 2613.8 | 2668.7 | 2680.5 | 2656.0 |
| 70° | 2212.9 | 2214.6 | 2238.3 | 2281.3 | 2340.4 | 2411.3 | 2500.7 | 2601.2 | 2681.4 | 2711.7 | 2684.7 |
| 72.5° | 2053.4 | 2060.2 | 2079.6 | 2115.9 | 2162.3 | 2232.4 | 2318.4 | 2407.9 | 2487.2 | 2526.1 | 2526.1 |
| 75° | 1765.6 | 1780.8 | 1790.1 | 1801.9 | 1842.4 | 1899.0 | 1969.0 | 2039.9 | 2110.0 | 2131.9 | 2070.3 |
| 77.5° | 1260.1 | 1234.8 | 1240.7 | 1306.5 | 1297.2 | 1361.4 | 1439.0 | 1489.6 | 1552.1 | 1542.8 | 1454.2 |
| 80° | 578.1 | 563.8 | 596.7 | 640.6 | 696.3 | 739.3 | 822.9 | 831.3 | 903.1 | 907.3 | 843.1 |
| 82.5° | 115.6 | 121.5 | 145.2 | 178.9 | 222.8 | 270.9 | 314.8 | 351.9 | 400.9 | 410.2 | 380.6 |
| 85° | 36.3 | 39.7 | 49.8 | 54.9 | 57.4 | 65.8 | 75.1 | 101.3 | 116.5 | 120.7 | 113.1 |
| 87.5° | 7.6 | 11.8 | 19.4 | 21.9 | 22.8 | 21.9 | 21.9 | 21.1 | 16.9 | 13.5 | 16.0 |
| 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° | 413.6 | 413.6 | 413.6 | 413.6 | 413.6 | 413.6 | 413.6 | 413.6 |
| 2.5° | 416.1 | 416.1 | 416.9 | 416.9 | 416.9 | 416.1 | 415.2 | 416.1 |
| 5° | 427.9 | 427.9 | 427.9 | 427.9 | 426.2 | 426.2 | 425.4 | 425.4 |
| 7.5° | 443.1 | 442.3 | 442.3 | 441.4 | 440.6 | 440.6 | 439.7 | 440.6 |
| 10° | 463.4 | 461.7 | 460.8 | 460.0 | 459.1 | 459.1 | 458.3 | 457.4 |
| 12.5° | 485.3 | 484.5 | 483.6 | 481.9 | 481.1 | 479.4 | 479.4 | 479.4 |
| 15° | 510.6 | 509.8 | 508.9 | 506.4 | 506.4 | 503.9 | 504.7 | 504.7 |
| 17.5° | 538.5 | 536.8 | 534.2 | 533.4 | 532.6 | 530.0 | 530.0 | 530.0 |
| 20° | 567.2 | 563.8 | 562.1 | 560.4 | 560.4 | 557.9 | 557.0 | 557.0 |
| 22.5° | 595.0 | 591.6 | 588.3 | 586.6 | 584.9 | 584.0 | 582.4 | 581.5 |
| 25° | 622.9 | 619.5 | 616.1 | 613.6 | 610.2 | 608.5 | 606.8 | 606.8 |
| 27.5° | 650.7 | 647.3 | 642.3 | 638.9 | 635.5 | 632.1 | 630.5 | 631.3 |
| 30° | 679.4 | 676.0 | 671.0 | 666.8 | 662.5 | 659.2 | 657.5 | 656.6 |
| 32.5° | 715.7 | 711.5 | 705.6 | 701.4 | 693.8 | 690.4 | 688.7 | 689.5 |
| 35° | 757.9 | 752.0 | 747.8 | 741.0 | 735.1 | 730.9 | 728.4 | 728.4 |
| 37.5° | 811.9 | 806.9 | 802.6 | 795.9 | 787.4 | 782.4 | 779.0 | 781.5 |
| 40° | 882.0 | 877.8 | 869.3 | 859.2 | 852.4 | 848.2 | 844.8 | 845.7 |
| 42.5° | 971.4 | 963.0 | 955.4 | 949.5 | 939.4 | 933.5 | 924.2 | 927.5 |
| 45° | 1084.5 | 1075.2 | 1067.6 | 1058.4 | 1049.1 | 1037.3 | 1033.9 | 1027.1 |
| 47.5° | 1221.3 | 1214.5 | 1197.6 | 1189.2 | 1177.4 | 1160.5 | 1152.0 | 1145.3 |
| 50° | 1372.3 | 1359.7 | 1347.9 | 1326.8 | 1313.2 | 1293.8 | 1286.2 | 1283.7 |
| 52.5° | 1542.8 | 1521.7 | 1502.3 | 1482.9 | 1455.9 | 1437.3 | 1422.1 | 1425.5 |
| 55° | 1711.6 | 1687.1 | 1659.3 | 1638.2 | 1617.1 | 1594.3 | 1578.3 | 1569.0 |
| 57.5° | 1889.7 | 1862.7 | 1833.1 | 1802.8 | 1785.0 | 1758.0 | 1747.9 | 1742.8 |
| 60° | 2072.8 | 2048.4 | 2018.8 | 1991.0 | 1966.5 | 1935.3 | 1918.4 | 1911.6 |
| 62.5° | 2275.4 | 2241.6 | 2206.2 | 2171.6 | 2144.6 | 2121.8 | 2104.1 | 2092.3 |
| 65° | 2461.9 | 2415.5 | 2379.2 | 2335.3 | 2305.8 | 2272.9 | 2250.9 | 2246.7 |
| 67.5° | 2601.2 | 2529.4 | 2466.1 | 2409.6 | 2364.0 | 2323.5 | 2295.7 | 2284.7 |
| 70° | 2610.5 | 2511.7 | 2418.0 | 2334.5 | 2267.8 | 2221.4 | 2184.2 | 2169.9 |
| 72.5° | 2429.8 | 2307.5 | 2180.9 | 2099.0 | 2028.1 | 1964.0 | 1937.8 | 1931.9 |
| 75° | 1976.6 | 1874.5 | 1769.0 | 1676.2 | 1627.2 | 1595.1 | 1573.2 | 1541.1 |
| 77.5° | 1373.2 | 1279.5 | 1222.9 | 1119.1 | 1100.6 | 1074.4 | 1052.5 | 1031.4 |
| 80° | 768.9 | 687.0 | 623.7 | 558.7 | 519.1 | 497.1 | 474.3 | 461.7 |
| 82.5° | 345.2 | 283.6 | 225.3 | 174.7 | 144.3 | 113.9 | 85.2 | 90.3 |
| 85° | 86.1 | 72.6 | 55.7 | 46.4 | 42.2 | 38.8 | 31.2 | 27.9 |
| 87.5° | 16.0 | 15.2 | 13.5 | 13.5 | 14.3 | 11.8 | 6.8 | 5.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)