

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: P200625

Luminaire Tested: **GAP-AF-01-LED-U-SL4-8030-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200625  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
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-SL4-8030-1200-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4619 lumens  
Efficiency: N/A  
Efficacy: 68.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G2

Input Watts (W): 67  
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

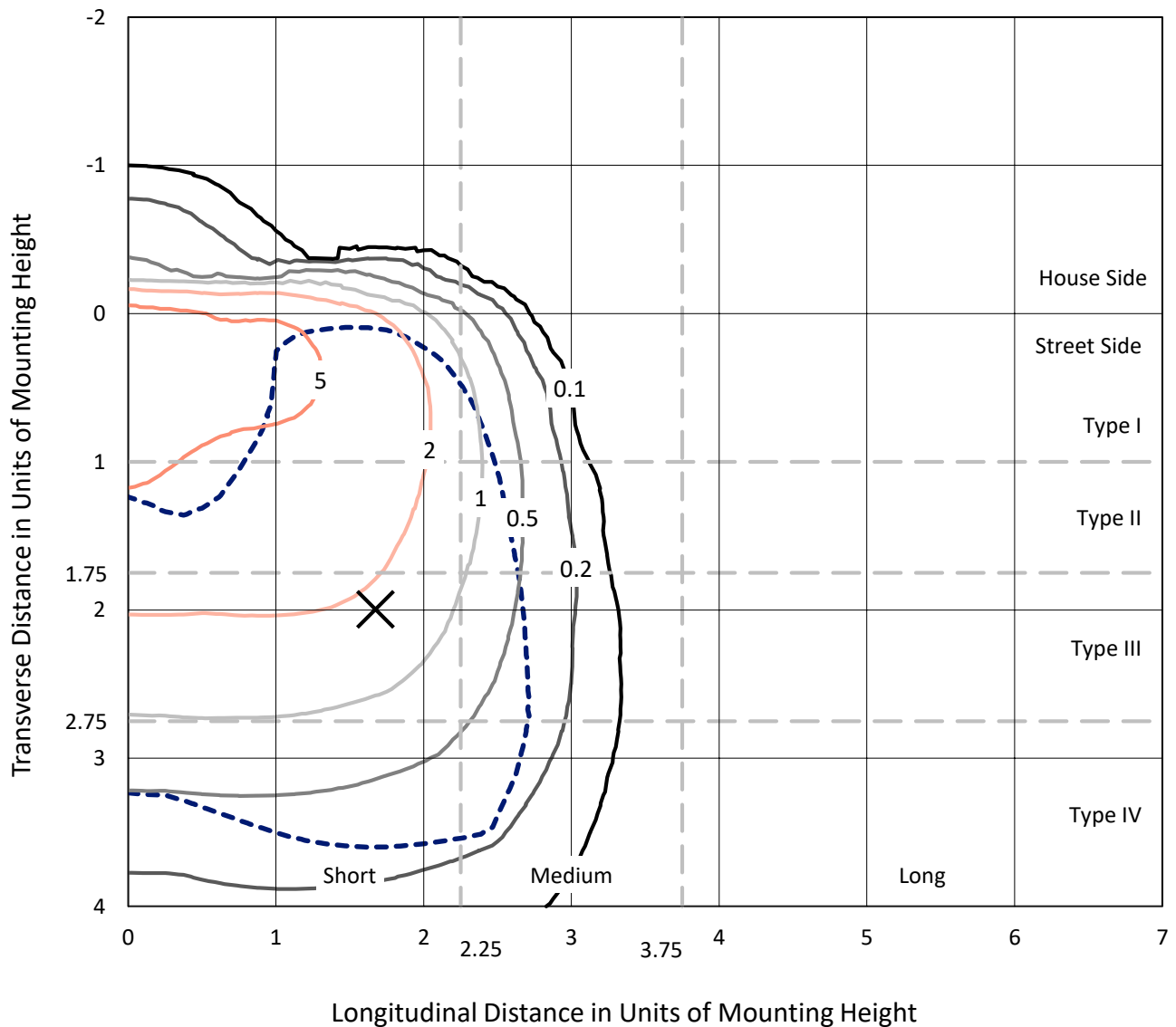


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

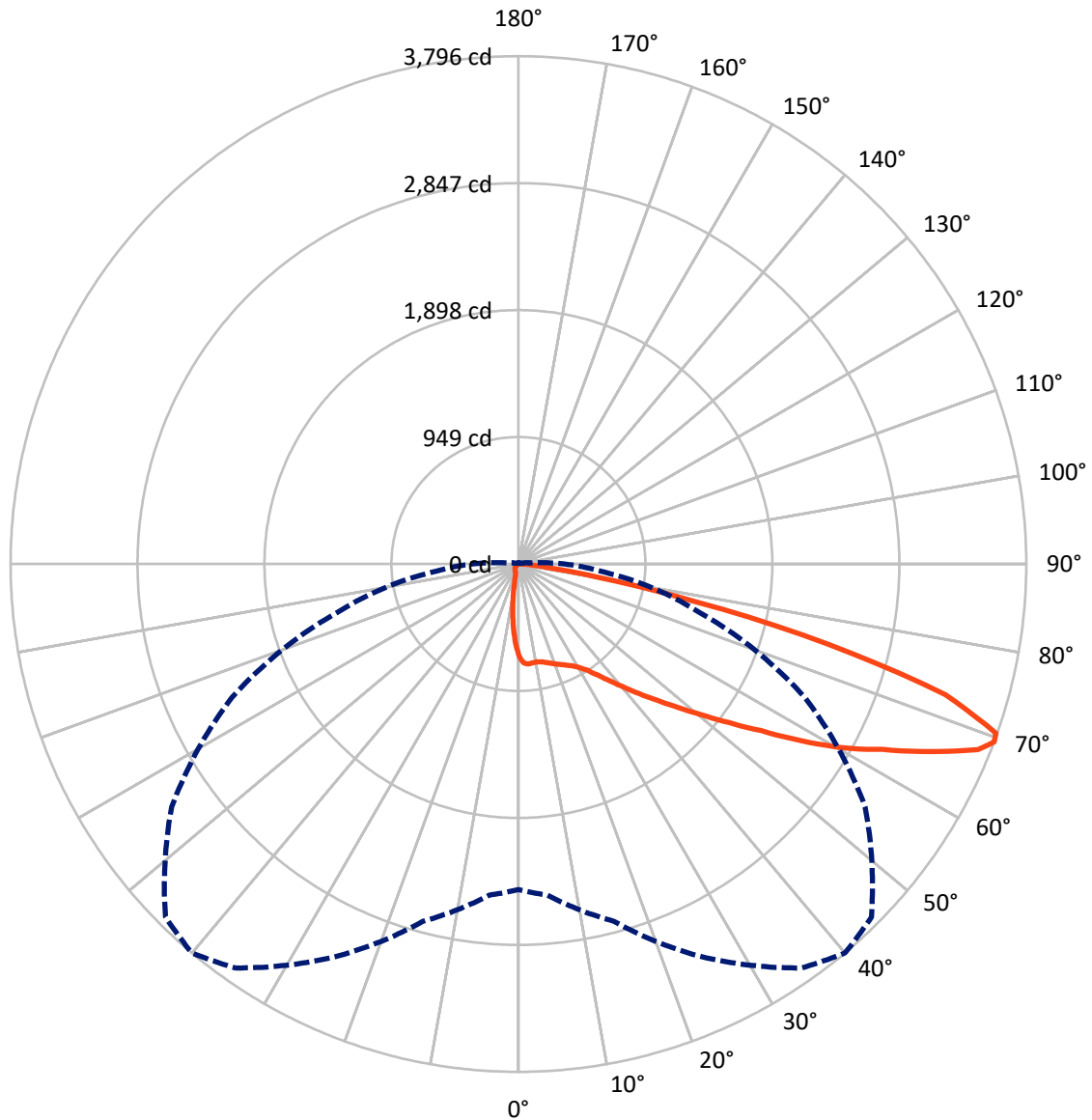


Based on 10 foot mounting height. Maximum calculated value = 7.6 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical



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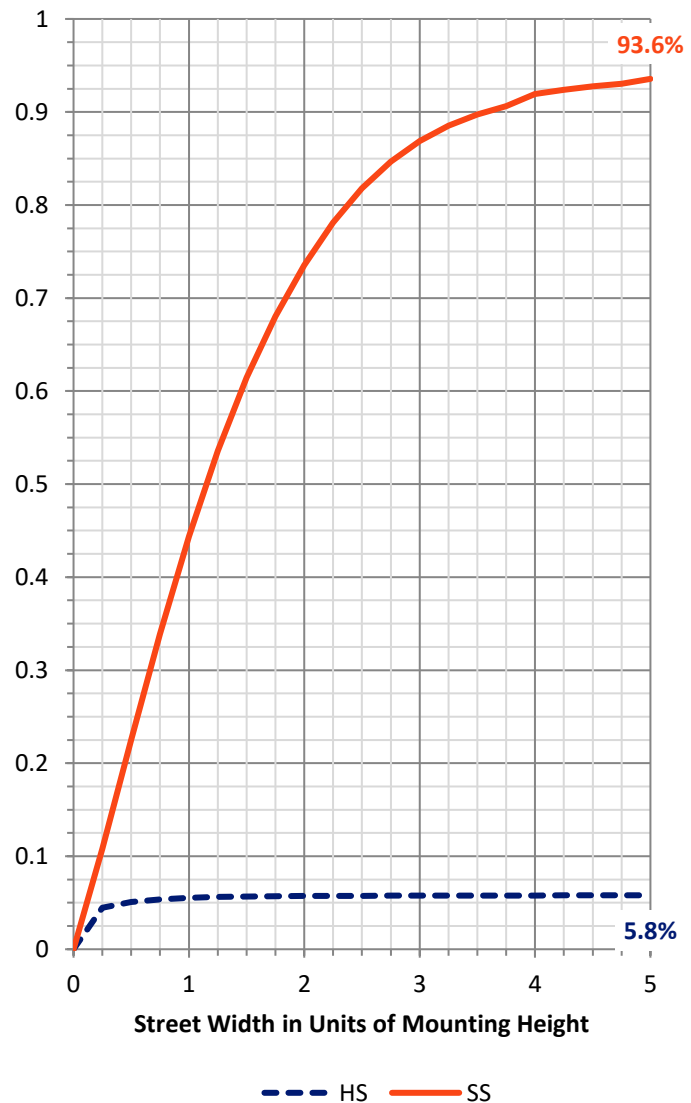
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 270.2    | 0.0    | 270.2  |
|                    | % Fixture | 5.9      | 0.0    | 5.9    |
| <b>Street Side</b> | Lumens    | 4348.8   | 0.0    | 4348.8 |
|                    | % Fixture | 94.1     | 0.0    | 94.1   |
| <b>Total</b>       | Lumens    | 4619.0   | 0.0    | 4619.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 56.0   | 1.2       |
| 10°-20°   | 137.6  | 3.0       |
| 20°-30°   | 231.8  | 5.0       |
| 30°-40°   | 379.4  | 8.2       |
| 40°-50°   | 656.9  | 14.2      |
| 50°-60°   | 1034.7 | 22.4      |
| 60°-70°   | 1351.3 | 29.3      |
| 70°-80°   | 696.0  | 15.1      |
| 80°-90°   | 75.3   | 1.6       |
| 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°    | 4619.0 | 100.0     |
| 0°-180°   | 4619.0 | 100.0     |

**Coefficient of Utilization**



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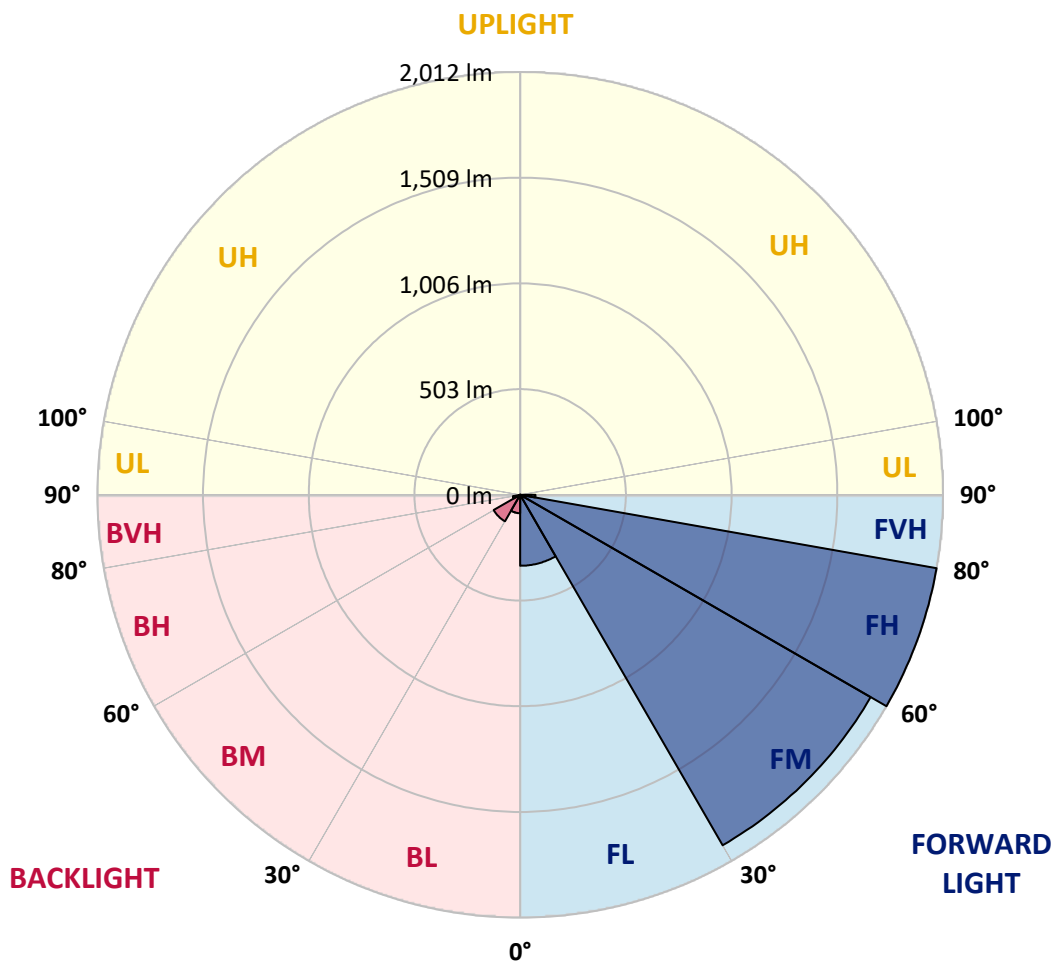
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 337.8  | 7.3       |                         |      |         |
| FM (30°-60°)   | 1925.8 | 41.7      |                         |      |         |
| FH (60°-80°)   | 2012.2 | 43.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 72.9   | 1.6       |                         |      | G1/100  |
| BL (0°-30°)    | 87.5   | 1.9       | B0/110                  |      |         |
| BM (30°-60°)   | 145.2  | 3.1       | B0/220                  |      |         |
| BH (60°-80°)   | 35.1   | 0.8       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 2.4    | 0.1       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 40°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 690.1  | 690.1  | 690.1  | 690.1  | 690.1  | 690.1  | 690.1  | 690.1  | 690.1  | 690.1  | 690.1  |
| 2.5°  | 757.7  | 753.6  | 751.1  | 747.8  | 743.7  | 740.1  | 738.8  | 728.6  | 719.0  | 705.8  | 690.7  |
| 5°    | 771.8  | 770.4  | 766.0  | 761.6  | 756.6  | 751.1  | 748.1  | 736.0  | 722.3  | 703.0  | 676.6  |
| 7.5°  | 773.1  | 771.5  | 766.0  | 759.9  | 753.1  | 746.5  | 741.2  | 729.1  | 716.5  | 697.0  | 664.8  |
| 10°   | 770.9  | 769.0  | 764.9  | 758.3  | 749.8  | 743.4  | 738.2  | 726.7  | 715.9  | 698.4  | 662.6  |
| 12.5° | 768.5  | 766.5  | 764.6  | 761.3  | 753.9  | 749.5  | 745.1  | 734.1  | 724.5  | 709.6  | 670.6  |
| 15°   | 770.9  | 769.8  | 772.0  | 770.7  | 766.5  | 762.7  | 758.3  | 748.4  | 739.6  | 727.2  | 685.2  |
| 17.5° | 781.4  | 781.4  | 788.3  | 789.1  | 785.2  | 779.7  | 773.4  | 763.5  | 756.1  | 745.6  | 702.5  |
| 20°   | 805.9  | 805.0  | 813.8  | 815.5  | 806.1  | 797.6  | 788.3  | 776.2  | 770.4  | 763.8  | 719.5  |
| 22.5° | 847.9  | 844.1  | 849.3  | 847.6  | 829.2  | 816.0  | 804.5  | 789.6  | 786.6  | 783.6  | 738.5  |
| 25°   | 902.6  | 900.4  | 904.0  | 887.8  | 855.3  | 837.5  | 823.7  | 807.0  | 807.0  | 810.0  | 759.9  |
| 27.5° | 982.1  | 973.8  | 961.7  | 933.2  | 884.5  | 861.7  | 846.8  | 828.9  | 833.6  | 844.9  | 788.3  |
| 30°   | 1063.5 | 1054.4 | 1026.6 | 982.6  | 920.0  | 896.0  | 878.7  | 860.0  | 871.0  | 891.6  | 826.2  |
| 32.5° | 1143.8 | 1133.6 | 1094.3 | 1038.7 | 970.8  | 946.9  | 930.1  | 909.5  | 927.9  | 962.6  | 881.7  |
| 35°   | 1221.6 | 1212.5 | 1167.1 | 1101.7 | 1038.5 | 1018.7 | 1003.3 | 985.4  | 1009.0 | 1057.4 | 960.1  |
| 37.5° | 1309.0 | 1299.1 | 1243.8 | 1172.9 | 1120.7 | 1106.4 | 1095.1 | 1077.2 | 1118.5 | 1189.4 | 1069.2 |
| 40°   | 1416.5 | 1399.7 | 1325.2 | 1254.6 | 1215.8 | 1208.9 | 1201.2 | 1198.7 | 1262.8 | 1361.0 | 1214.7 |
| 42.5° | 1539.7 | 1512.2 | 1410.4 | 1340.6 | 1320.3 | 1325.2 | 1323.3 | 1334.3 | 1443.4 | 1574.3 | 1391.8 |
| 45°   | 1662.8 | 1627.4 | 1505.3 | 1432.4 | 1435.2 | 1452.5 | 1463.2 | 1507.2 | 1669.7 | 1819.0 | 1582.3 |
| 47.5° | 1767.3 | 1732.4 | 1596.3 | 1531.7 | 1564.7 | 1598.8 | 1627.9 | 1711.2 | 1902.3 | 2059.9 | 1730.5 |
| 50°   | 1856.7 | 1823.7 | 1692.8 | 1640.8 | 1715.1 | 1770.1 | 1817.4 | 1940.8 | 2152.5 | 2243.2 | 1834.4 |
| 52.5° | 1929.8 | 1907.8 | 1792.9 | 1765.9 | 1886.9 | 1967.5 | 2036.8 | 2184.7 | 2374.1 | 2392.3 | 1915.2 |
| 55°   | 2001.0 | 1985.4 | 1900.4 | 1914.7 | 2088.7 | 2198.4 | 2286.1 | 2443.4 | 2564.9 | 2516.5 | 1992.8 |
| 57.5° | 2083.0 | 2068.7 | 2023.0 | 2103.3 | 2354.0 | 2492.1 | 2587.7 | 2672.7 | 2732.9 | 2643.6 | 2065.9 |
| 60°   | 2166.5 | 2158.3 | 2159.4 | 2312.8 | 2658.7 | 2791.2 | 2844.0 | 2866.0 | 2897.9 | 2763.2 | 2070.0 |
| 62.5° | 2246.3 | 2261.9 | 2315.3 | 2546.0 | 2950.4 | 3052.1 | 3078.8 | 3100.5 | 3063.1 | 2782.1 | 1912.5 |
| 65°   | 2381.3 | 2406.8 | 2534.1 | 2858.0 | 3271.3 | 3380.1 | 3407.6 | 3333.1 | 3089.2 | 2536.9 | 1555.6 |
| 67.5° | 2447.3 | 2494.0 | 2721.1 | 3148.9 | 3582.5 | 3703.5 | 3693.3 | 3348.2 | 2772.2 | 1934.5 | 998.3  |
| 69°   | 2433.5 | 2483.3 | 2764.3 | 3238.0 | 3685.9 | 3795.6 | 3731.0 | 3163.2 | 2361.7 | 1401.4 | 612.8  |
| 70°   | 2379.1 | 2429.4 | 2742.0 | 3234.7 | 3699.1 | 3785.9 | 3661.1 | 2934.7 | 1996.9 | 1024.7 | 383.3  |
| 72.5° | 1986.7 | 2030.2 | 2434.3 | 2923.7 | 3407.6 | 3337.0 | 3062.8 | 2033.2 | 973.0  | 279.1  | 86.3   |
| 75°   | 1222.9 | 1247.1 | 1746.7 | 2202.6 | 2573.7 | 2392.3 | 2040.6 | 1011.5 | 290.1  | 78.9   | 47.8   |
| 77.5° | 646.1  | 657.1  | 956.2  | 1298.3 | 1631.5 | 1350.0 | 1045.9 | 394.5  | 133.6  | 49.5   | 34.6   |
| 80°   | 381.9  | 390.1  | 515.0  | 593.6  | 706.0  | 589.7  | 418.2  | 242.2  | 95.7   | 31.1   | 30.8   |
| 82.5° | 218.6  | 223.8  | 373.4  | 329.9  | 278.2  | 237.5  | 208.1  | 229.6  | 57.5   | 20.9   | 31.9   |
| 85°   | 80.3   | 81.4   | 210.1  | 251.0  | 165.5  | 98.4   | 103.4  | 190.3  | 15.4   | 13.2   | 25.0   |
| 87.5° | 37.4   | 36.6   | 108.1  | 153.7  | 96.8   | 62.4   | 80.6   | 41.8   | 6.0    | 8.5    | 6.9    |
| 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):**

|       | 90°    | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 690.1  | 690.1 | 690.1 | 690.1 | 690.1 | 690.1 | 690.1 | 690.1 | 690.1 | 690.1 | 690.1 |
| 2.5°  | 681.9  | 671.7 | 653.3 | 634.3 | 615.0 | 600.2 | 585.6 | 574.1 | 570.2 | 563.1 | 563.6 |
| 5°    | 661.0  | 642.3 | 603.8 | 564.7 | 524.0 | 490.5 | 458.9 | 433.3 | 420.9 | 408.3 | 408.3 |
| 7.5°  | 642.8  | 615.6 | 555.4 | 491.9 | 426.2 | 370.9 | 321.1 | 283.7 | 263.1 | 246.6 | 246.3 |
| 10°   | 635.9  | 599.1 | 515.0 | 424.0 | 332.4 | 257.1 | 198.0 | 160.0 | 140.5 | 127.8 | 127.3 |
| 12.5° | 639.0  | 593.3 | 483.9 | 361.3 | 246.3 | 165.2 | 114.7 | 90.2  | 81.9  | 78.1  | 78.1  |
| 15°   | 647.8  | 591.7 | 452.8 | 300.0 | 174.0 | 103.4 | 76.2  | 69.6  | 69.0  | 69.0  | 69.0  |
| 17.5° | 658.5  | 592.2 | 420.9 | 240.3 | 118.5 | 74.0  | 65.7  | 64.9  | 65.4  | 65.4  | 65.4  |
| 20°   | 669.5  | 592.5 | 386.6 | 185.0 | 83.6  | 64.3  | 61.9  | 61.6  | 62.1  | 62.1  | 62.4  |
| 22.5° | 683.0  | 593.9 | 352.2 | 138.3 | 69.0  | 60.8  | 58.8  | 58.8  | 59.1  | 59.1  | 58.8  |
| 25°   | 698.4  | 596.6 | 316.5 | 102.6 | 63.0  | 58.3  | 56.6  | 56.4  | 56.6  | 56.4  | 56.1  |
| 27.5° | 717.6  | 600.5 | 276.6 | 80.3  | 60.2  | 55.8  | 54.4  | 54.4  | 54.2  | 53.9  | 53.6  |
| 30°   | 741.8  | 604.9 | 231.8 | 68.2  | 57.5  | 53.6  | 52.2  | 52.0  | 51.7  | 51.1  | 51.1  |
| 32.5° | 778.6  | 614.5 | 187.5 | 61.9  | 54.4  | 50.6  | 49.5  | 49.5  | 48.9  | 48.4  | 48.1  |
| 35°   | 835.3  | 633.5 | 147.9 | 58.0  | 51.1  | 47.3  | 45.9  | 45.9  | 45.4  | 45.1  | 44.8  |
| 37.5° | 913.6  | 662.3 | 114.9 | 54.4  | 47.8  | 43.7  | 42.3  | 42.1  | 41.5  | 41.0  | 40.7  |
| 40°   | 1017.8 | 698.1 | 90.5  | 51.1  | 44.5  | 40.1  | 39.0  | 38.5  | 37.4  | 36.6  | 36.6  |
| 42.5° | 1148.7 | 738.8 | 73.4  | 47.6  | 40.7  | 36.8  | 36.0  | 35.2  | 33.3  | 32.4  | 32.2  |
| 45°   | 1285.6 | 775.3 | 62.1  | 43.4  | 36.8  | 33.5  | 33.0  | 31.6  | 29.1  | 28.3  | 28.3  |
| 47.5° | 1384.3 | 783.9 | 54.7  | 39.6  | 33.3  | 30.0  | 29.7  | 27.2  | 25.0  | 24.5  | 24.2  |
| 50°   | 1445.9 | 767.1 | 48.7  | 35.7  | 30.0  | 26.7  | 25.8  | 22.8  | 21.4  | 20.9  | 20.6  |
| 52.5° | 1487.4 | 737.1 | 43.7  | 32.4  | 26.9  | 23.6  | 21.7  | 19.5  | 18.4  | 17.9  | 17.9  |
| 55°   | 1520.7 | 694.8 | 38.8  | 29.4  | 24.5  | 21.2  | 18.4  | 16.8  | 15.7  | 15.1  | 15.1  |
| 57.5° | 1530.0 | 637.3 | 33.8  | 26.9  | 22.0  | 18.7  | 15.7  | 14.6  | 13.2  | 12.9  | 12.9  |
| 60°   | 1462.1 | 533.7 | 30.0  | 23.9  | 19.8  | 16.2  | 13.7  | 12.4  | 11.0  | 10.7  | 10.4  |
| 62.5° | 1283.2 | 413.0 | 26.4  | 21.2  | 17.3  | 14.0  | 11.8  | 10.2  | 9.1   | 9.1   | 9.1   |
| 65°   | 978.8  | 276.9 | 23.1  | 18.4  | 15.1  | 11.8  | 10.2  | 8.2   | 7.7   | 7.7   | 8.0   |
| 67.5° | 585.9  | 150.7 | 19.8  | 15.7  | 12.9  | 9.9   | 8.5   | 7.1   | 6.9   | 7.1   | 7.1   |
| 69°   | 343.4  | 88.5  | 17.9  | 14.0  | 11.3  | 8.8   | 7.4   | 6.3   | 6.9   | 7.1   | 7.1   |
| 70°   | 212.0  | 59.7  | 16.5  | 12.6  | 10.2  | 8.0   | 6.9   | 6.0   | 6.6   | 6.9   | 6.9   |
| 72.5° | 59.1   | 30.8  | 13.2  | 9.9   | 8.2   | 6.6   | 5.5   | 5.5   | 6.3   | 6.6   | 6.6   |
| 75°   | 38.5   | 22.8  | 10.2  | 7.4   | 6.3   | 5.2   | 4.7   | 5.2   | 6.0   | 6.3   | 6.3   |
| 77.5° | 31.9   | 18.7  | 8.2   | 6.0   | 5.2   | 4.9   | 4.4   | 4.7   | 5.5   | 5.8   | 5.8   |
| 80°   | 29.1   | 13.2  | 6.6   | 5.5   | 4.7   | 4.4   | 4.1   | 3.8   | 4.9   | 5.2   | 5.2   |
| 82.5° | 27.8   | 10.4  | 5.8   | 4.9   | 4.4   | 3.8   | 3.6   | 3.8   | 4.4   | 4.7   | 4.9   |
| 85°   | 17.3   | 6.9   | 5.2   | 4.7   | 3.8   | 3.6   | 3.6   | 3.6   | 4.1   | 4.4   | 4.4   |
| 87.5° | 6.3    | 5.5   | 4.7   | 3.8   | 3.3   | 3.3   | 3.3   | 3.3   | 3.6   | 4.1   | 4.1   |
| 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)