

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: P199947

Luminaire Tested: **GAP-AF-01-LED-U-SL2-7030-600-HSS**

Issue Date: 3/3/2020

#### Test Information

Test Method: LM-79-08  
Report Number: P199947  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)  
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-SL2-7030-600-HSS  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

#### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 3355.3 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 34  
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



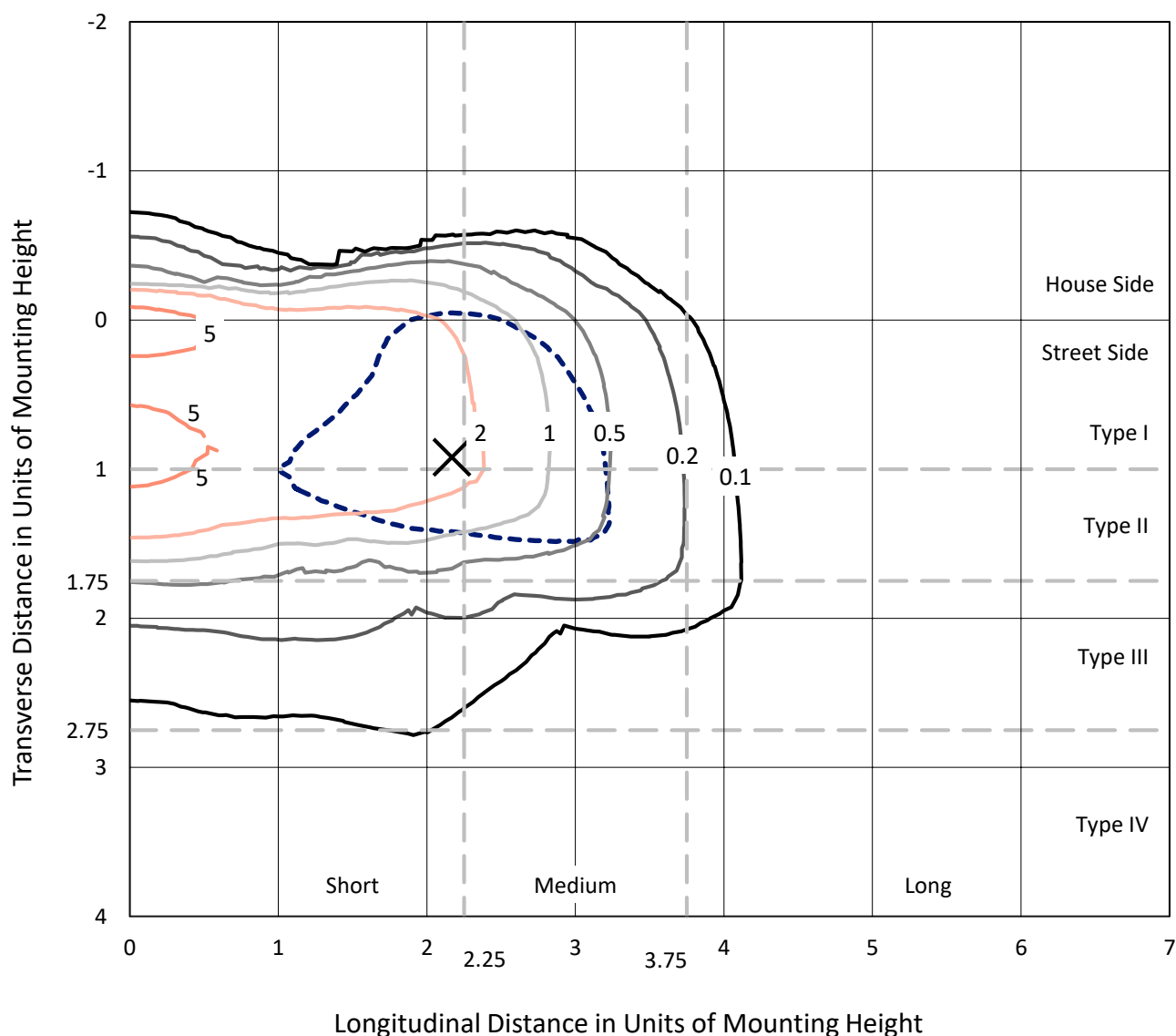
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

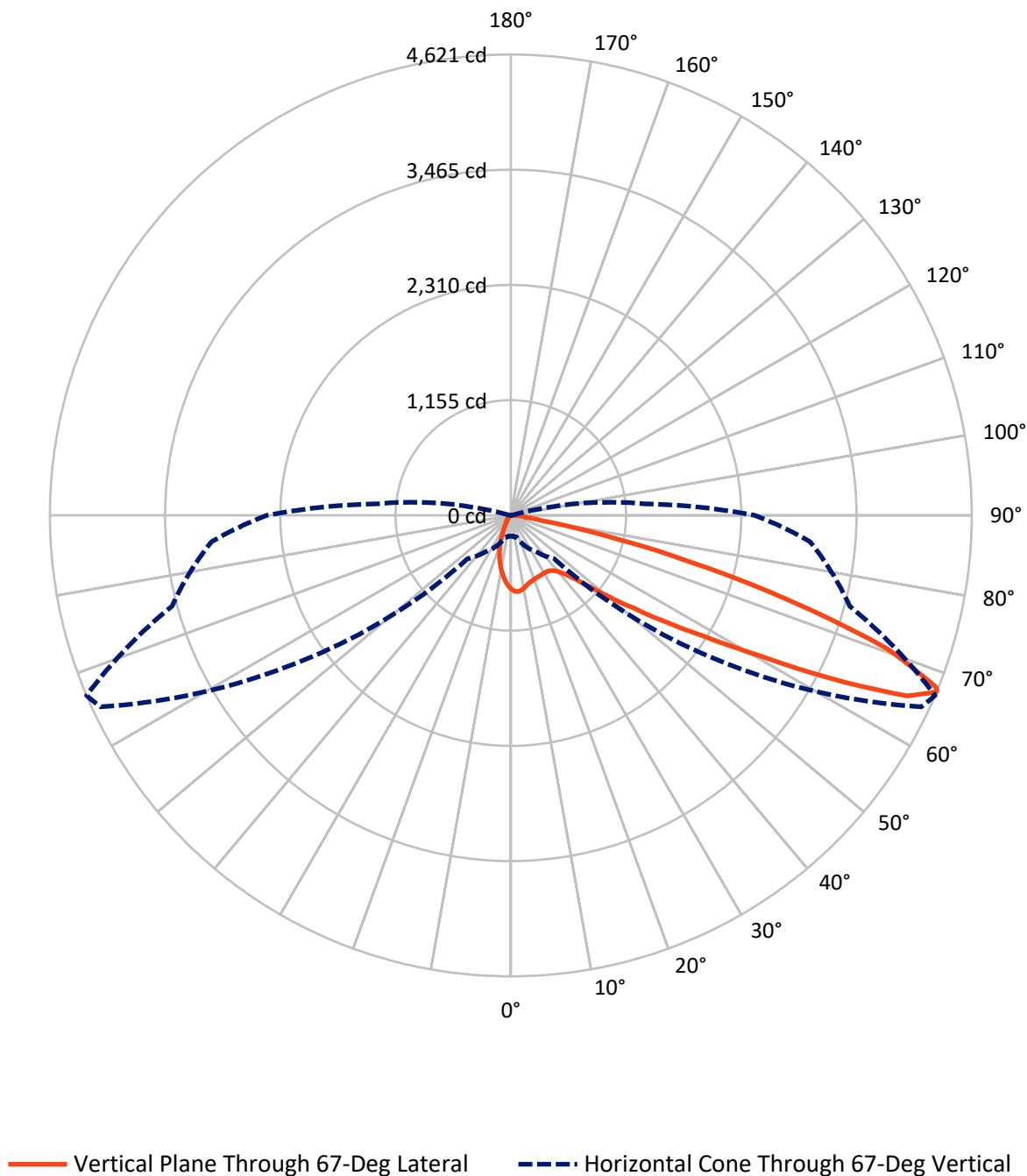


Based on 10 foot mounting height. Maximum calculated value = 7.4 fc  
Type II - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 348.4    | 0.0    | 348.4  |
|                    | % Fixture | 10.4     | 0.0    | 10.4   |
| <b>Street Side</b> | Lumens    | 3007.0   | 0.0    | 3007.0 |
|                    | % Fixture | 89.6     | 0.0    | 89.6   |
| <b>Total</b>       | Lumens    | 3355.3   | 0.0    | 3355.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 60.2   | 1.8       |
| 10°-20°   | 128.2  | 3.8       |
| 20°-30°   | 186.3  | 5.6       |
| 30°-40°   | 290.7  | 8.7       |
| 40°-50°   | 514.9  | 15.3      |
| 50°-60°   | 814.8  | 24.3      |
| 60°-70°   | 933.2  | 27.8      |
| 70°-80°   | 387.1  | 11.5      |
| 80°-90°   | 40.0   | 1.2       |
| 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°    | 3355.3 | 100.0     |
| 0°-180°   | 3355.3 | 100.0     |

**Coefficient of Utilization**



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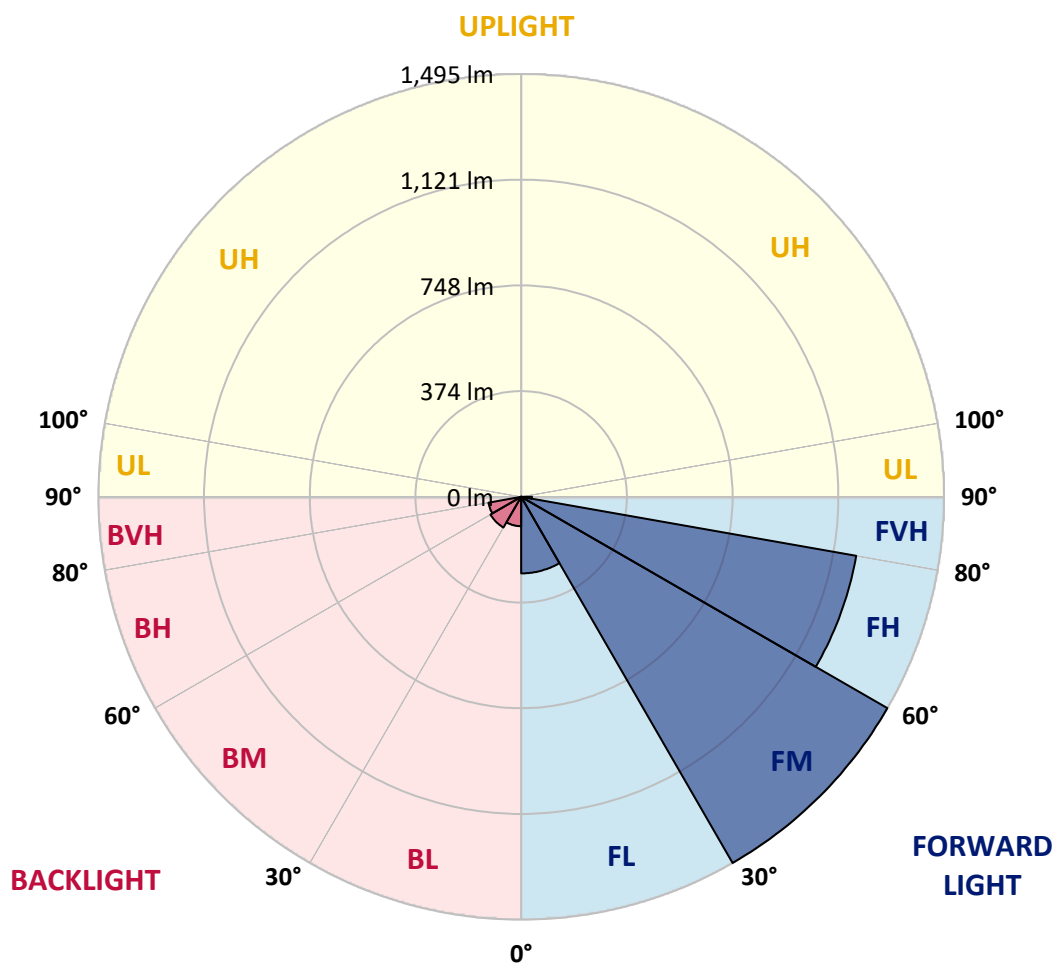
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 270.7  | 8.1       |                         |      |         |
| FM   | (30°-60°)   | 1495.2 | 44.6      |                         |      |         |
| FH   | (60°-80°)   | 1202.9 | 35.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 38.2   | 1.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 104.0  | 3.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 125.2  | 3.7       | B0/220                  |      |         |
| BH   | (60°-80°)   | 117.4  | 3.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 1.8    | 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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 67°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 740.0  | 740.0  | 740.0  | 740.0  | 740.0  | 740.0  | 740.0  | 740.0  | 740.0  | 740.0  | 740.0  |
| 2.5°  | 765.1  | 766.6  | 766.5  | 767.5  | 770.3  | 770.5  | 767.8  | 762.5  | 761.3  | 754.4  | 742.5  |
| 5°    | 705.5  | 710.0  | 712.8  | 724.0  | 736.4  | 751.4  | 762.8  | 767.0  | 766.5  | 761.5  | 743.5  |
| 7.5°  | 637.6  | 642.1  | 645.2  | 658.4  | 675.0  | 700.8  | 730.4  | 754.7  | 756.8  | 762.1  | 742.8  |
| 10°   | 592.4  | 593.2  | 597.5  | 610.0  | 627.4  | 653.9  | 689.1  | 731.6  | 738.0  | 757.3  | 740.8  |
| 12.5° | 555.2  | 555.8  | 561.5  | 575.0  | 593.6  | 620.1  | 657.2  | 706.4  | 716.3  | 751.4  | 740.3  |
| 15°   | 528.9  | 531.0  | 536.0  | 550.1  | 569.9  | 596.3  | 634.2  | 687.7  | 699.7  | 749.4  | 743.9  |
| 17.5° | 520.0  | 522.4  | 523.9  | 534.1  | 552.1  | 578.0  | 616.9  | 675.6  | 689.1  | 750.5  | 750.7  |
| 20°   | 529.3  | 531.0  | 527.4  | 530.0  | 541.2  | 564.3  | 602.2  | 665.2  | 681.2  | 751.9  | 759.6  |
| 22.5° | 563.4  | 564.3  | 554.6  | 543.4  | 541.5  | 554.3  | 590.6  | 656.9  | 674.2  | 755.6  | 769.9  |
| 25°   | 622.1  | 620.8  | 605.2  | 581.0  | 558.4  | 552.6  | 583.8  | 651.9  | 670.8  | 759.6  | 780.6  |
| 27.5° | 693.0  | 695.0  | 673.5  | 638.4  | 595.1  | 564.3  | 582.8  | 649.8  | 669.1  | 762.3  | 790.1  |
| 30°   | 779.1  | 781.9  | 757.1  | 713.1  | 651.0  | 593.2  | 591.8  | 649.3  | 668.1  | 760.6  | 790.8  |
| 32.5° | 867.0  | 870.4  | 850.9  | 805.6  | 725.9  | 641.7  | 612.2  | 653.7  | 670.1  | 754.4  | 786.3  |
| 35°   | 959.0  | 963.6  | 950.8  | 911.8  | 827.3  | 711.9  | 648.0  | 666.8  | 679.3  | 753.9  | 781.9  |
| 37.5° | 1086.0 | 1090.3 | 1066.1 | 1024.8 | 950.0  | 805.8  | 705.5  | 691.4  | 701.0  | 763.2  | 783.1  |
| 40°   | 1275.6 | 1275.0 | 1212.4 | 1149.2 | 1084.8 | 925.1  | 786.3  | 736.1  | 741.0  | 791.7  | 797.5  |
| 42.5° | 1482.3 | 1481.3 | 1388.8 | 1292.6 | 1234.5 | 1072.1 | 892.6  | 813.2  | 809.8  | 843.9  | 835.1  |
| 45°   | 1641.6 | 1641.4 | 1565.9 | 1457.6 | 1414.8 | 1240.7 | 1030.0 | 920.4  | 915.4  | 928.8  | 904.3  |
| 47.5° | 1709.6 | 1710.7 | 1672.8 | 1596.6 | 1614.7 | 1469.0 | 1203.3 | 1075.7 | 1068.2 | 1062.6 | 1025.5 |
| 50°   | 1656.7 | 1659.0 | 1662.2 | 1647.3 | 1761.2 | 1775.7 | 1435.5 | 1294.8 | 1291.1 | 1266.7 | 1208.5 |
| 52.5° | 1484.1 | 1496.0 | 1532.8 | 1580.0 | 1812.1 | 2070.0 | 1799.7 | 1566.9 | 1546.9 | 1520.9 | 1456.9 |
| 55°   | 1193.2 | 1206.3 | 1276.2 | 1390.8 | 1736.3 | 2263.5 | 2310.2 | 1917.6 | 1884.2 | 1806.6 | 1714.2 |
| 57.5° | 789.7  | 810.0  | 911.4  | 1057.1 | 1516.4 | 2294.6 | 2819.4 | 2404.2 | 2288.4 | 2075.7 | 1971.6 |
| 60°   | 435.1  | 454.6  | 564.7  | 696.5  | 1095.3 | 2140.7 | 3161.9 | 3038.0 | 2833.3 | 2376.5 | 2284.2 |
| 62.5° | 267.9  | 278.5  | 359.7  | 482.4  | 656.7  | 1689.5 | 3232.8 | 3834.4 | 3597.4 | 2763.8 | 2661.7 |
| 65°   | 213.3  | 217.9  | 257.6  | 394.3  | 470.9  | 1004.9 | 3004.0 | 4441.4 | 4362.4 | 3232.8 | 2999.6 |
| 67°   | 207.0  | 208.8  | 227.6  | 338.6  | 443.9  | 616.1  | 2516.7 | 4540.3 | 4620.5 | 3516.5 | 3010.2 |
| 67.5° | 208.4  | 210.5  | 228.3  | 323.1  | 443.0  | 566.2  | 2348.7 | 4501.4 | 4602.6 | 3539.0 | 2963.4 |
| 70°   | 201.0  | 207.0  | 261.2  | 323.0  | 421.4  | 470.5  | 1406.6 | 3900.1 | 4005.6 | 3288.2 | 2514.5 |
| 72.5° | 71.2   | 71.7   | 113.0  | 261.2  | 458.2  | 475.6  | 706.4  | 2859.1 | 2937.2 | 2515.4 | 1812.8 |
| 75°   | 42.3   | 36.0   | 37.5   | 74.4   | 437.8  | 461.8  | 407.4  | 1827.0 | 1856.1 | 1441.4 | 918.1  |
| 77.5° | 29.2   | 25.4   | 26.2   | 32.9   | 166.7  | 455.4  | 323.7  | 952.7  | 921.6  | 505.6  | 195.5  |
| 80°   | 16.6   | 14.6   | 15.7   | 28.7   | 60.6   | 424.9  | 305.3  | 386.3  | 329.4  | 85.8   | 54.0   |
| 82.5° | 8.8    | 7.4    | 9.0    | 23.7   | 42.3   | 264.9  | 305.9  | 186.8  | 147.9  | 29.0   | 36.8   |
| 85°   | 3.2    | 2.5    | 4.3    | 16.3   | 28.2   | 81.2   | 283.6  | 157.0  | 123.3  | 14.1   | 28.0   |
| 87.5° | 0.5    | 0.5    | 1.7    | 6.7    | 11.4   | 24.8   | 167.7  | 93.2   | 62.4   | 8.4    | 19.2   |
| 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°    | 740.0  | 740.0  | 740.0 | 740.0 | 740.0 | 740.0 | 740.0 | 740.0 | 740.0 | 740.0 | 740.0 |
| 2.5°  | 737.6  | 729.2  | 717.9 | 703.9 | 687.6 | 673.0 | 662.3 | 651.0 | 648.8 | 644.8 | 644.3 |
| 5°    | 732.7  | 718.3  | 690.1 | 657.7 | 623.4 | 592.1 | 566.9 | 544.4 | 534.5 | 525.9 | 524.9 |
| 7.5°  | 725.5  | 703.7  | 655.8 | 603.7 | 549.9 | 501.1 | 459.6 | 430.2 | 403.1 | 390.3 | 388.3 |
| 10°   | 717.1  | 685.9  | 617.4 | 545.1 | 470.7 | 401.6 | 339.9 | 288.3 | 257.0 | 238.4 | 236.0 |
| 12.5° | 709.2  | 668.5  | 578.0 | 484.2 | 385.3 | 293.0 | 213.7 | 164.4 | 131.5 | 118.2 | 116.7 |
| 15°   | 705.5  | 654.5  | 541.2 | 422.0 | 296.1 | 186.5 | 116.8 | 90.4  | 79.6  | 76.5  | 76.4  |
| 17.5° | 705.2  | 642.6  | 505.1 | 357.6 | 207.5 | 108.3 | 76.2  | 69.5  | 67.3  | 66.5  | 66.5  |
| 20°   | 704.9  | 631.2  | 469.2 | 290.8 | 131.7 | 72.2  | 63.4  | 61.8  | 60.3  | 59.3  | 59.3  |
| 22.5° | 707.1  | 621.0  | 431.6 | 222.7 | 82.9  | 58.6  | 55.8  | 54.2  | 52.2  | 51.0  | 50.7  |
| 25°   | 709.2  | 613.2  | 393.3 | 158.5 | 60.1  | 51.0  | 48.2  | 46.0  | 43.2  | 41.5  | 41.3  |
| 27.5° | 709.6  | 603.3  | 352.1 | 106.1 | 50.3  | 44.5  | 40.9  | 37.5  | 34.4  | 32.7  | 32.4  |
| 30°   | 703.7  | 586.9  | 306.5 | 71.7  | 44.5  | 38.6  | 33.9  | 30.4  | 27.5  | 26.0  | 26.0  |
| 32.5° | 692.2  | 566.6  | 256.4 | 54.0  | 39.6  | 33.1  | 28.0  | 24.7  | 22.7  | 22.1  | 22.0  |
| 35°   | 681.9  | 544.6  | 204.9 | 45.8  | 35.4  | 28.0  | 23.0  | 20.8  | 19.5  | 19.3  | 19.2  |
| 37.5° | 675.8  | 527.0  | 156.6 | 41.5  | 31.4  | 23.5  | 19.3  | 17.8  | 17.3  | 16.8  | 17.1  |
| 40°   | 680.4  | 512.3  | 115.7 | 38.0  | 27.7  | 19.5  | 16.4  | 15.7  | 15.1  | 14.9  | 14.9  |
| 42.5° | 701.0  | 509.8  | 85.9  | 34.9  | 23.9  | 16.3  | 14.3  | 13.6  | 13.3  | 13.1  | 13.3  |
| 45°   | 755.1  | 525.4  | 66.7  | 31.9  | 20.1  | 13.6  | 12.1  | 11.9  | 11.7  | 11.7  | 11.7  |
| 47.5° | 836.3  | 557.8  | 55.6  | 28.6  | 16.8  | 11.7  | 10.6  | 10.4  | 10.2  | 10.4  | 10.4  |
| 50°   | 973.8  | 616.9  | 49.7  | 25.2  | 13.8  | 10.0  | 9.0   | 9.0   | 9.0   | 9.0   | 9.2   |
| 52.5° | 1183.1 | 733.1  | 45.8  | 22.0  | 11.4  | 8.4   | 7.6   | 7.6   | 7.8   | 7.8   | 7.9   |
| 55°   | 1416.1 | 887.3  | 42.3  | 18.6  | 9.7   | 7.0   | 6.2   | 6.4   | 6.7   | 6.9   | 6.9   |
| 57.5° | 1669.1 | 1058.1 | 39.4  | 15.3  | 8.2   | 5.7   | 5.3   | 5.5   | 5.7   | 6.1   | 6.1   |
| 60°   | 1974.1 | 1243.2 | 35.1  | 11.9  | 6.9   | 4.5   | 4.2   | 4.5   | 5.1   | 5.5   | 5.7   |
| 62.5° | 2309.2 | 1422.0 | 29.5  | 9.4   | 5.7   | 3.5   | 3.3   | 4.2   | 4.9   | 5.3   | 5.5   |
| 65°   | 2538.2 | 1478.2 | 22.7  | 7.6   | 4.3   | 2.5   | 2.7   | 3.8   | 4.7   | 5.3   | 5.3   |
| 67°   | 2445.4 | 1340.2 | 18.6  | 6.4   | 3.5   | 1.9   | 2.5   | 3.8   | 4.7   | 5.1   | 5.3   |
| 67.5° | 2381.0 | 1286.2 | 17.8  | 6.2   | 3.3   | 1.9   | 2.5   | 3.8   | 4.7   | 5.3   | 5.3   |
| 70°   | 1937.3 | 966.2  | 14.9  | 4.7   | 2.7   | 1.7   | 2.1   | 3.5   | 4.5   | 5.1   | 5.1   |
| 72.5° | 1346.1 | 595.8  | 13.3  | 3.3   | 2.3   | 1.5   | 1.9   | 3.3   | 4.3   | 4.9   | 5.1   |
| 75°   | 639.9  | 215.7  | 11.4  | 2.5   | 2.1   | 1.4   | 1.7   | 3.3   | 4.3   | 4.9   | 4.9   |
| 77.5° | 130.6  | 50.1   | 9.2   | 2.1   | 1.7   | 1.4   | 1.5   | 3.2   | 4.2   | 4.7   | 4.7   |
| 80°   | 42.8   | 19.3   | 6.9   | 1.9   | 1.7   | 1.4   | 1.5   | 2.9   | 4.2   | 4.5   | 4.7   |
| 82.5° | 30.9   | 9.9    | 4.5   | 1.9   | 1.7   | 1.4   | 1.4   | 2.9   | 4.0   | 4.5   | 4.5   |
| 85°   | 23.7   | 6.9    | 2.9   | 1.9   | 1.7   | 1.4   | 1.4   | 2.7   | 3.8   | 4.3   | 4.3   |
| 87.5° | 15.7   | 2.7    | 2.3   | 1.9   | 1.7   | 1.4   | 1.4   | 2.7   | 3.5   | 4.2   | 4.3   |
| 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)