

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: P192769

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

Issue Date: 3/3/2020

### Test Information

Test Method: LM-79-08  
Report Number: P192769  
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: GAN-AF-01-LED-U-SL2-7030-600-HSS  
Description: GALLEON AREA AND ROADWAY 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: 3289.8 lumens  
Efficiency: N/A  
Efficacy: 96.8 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



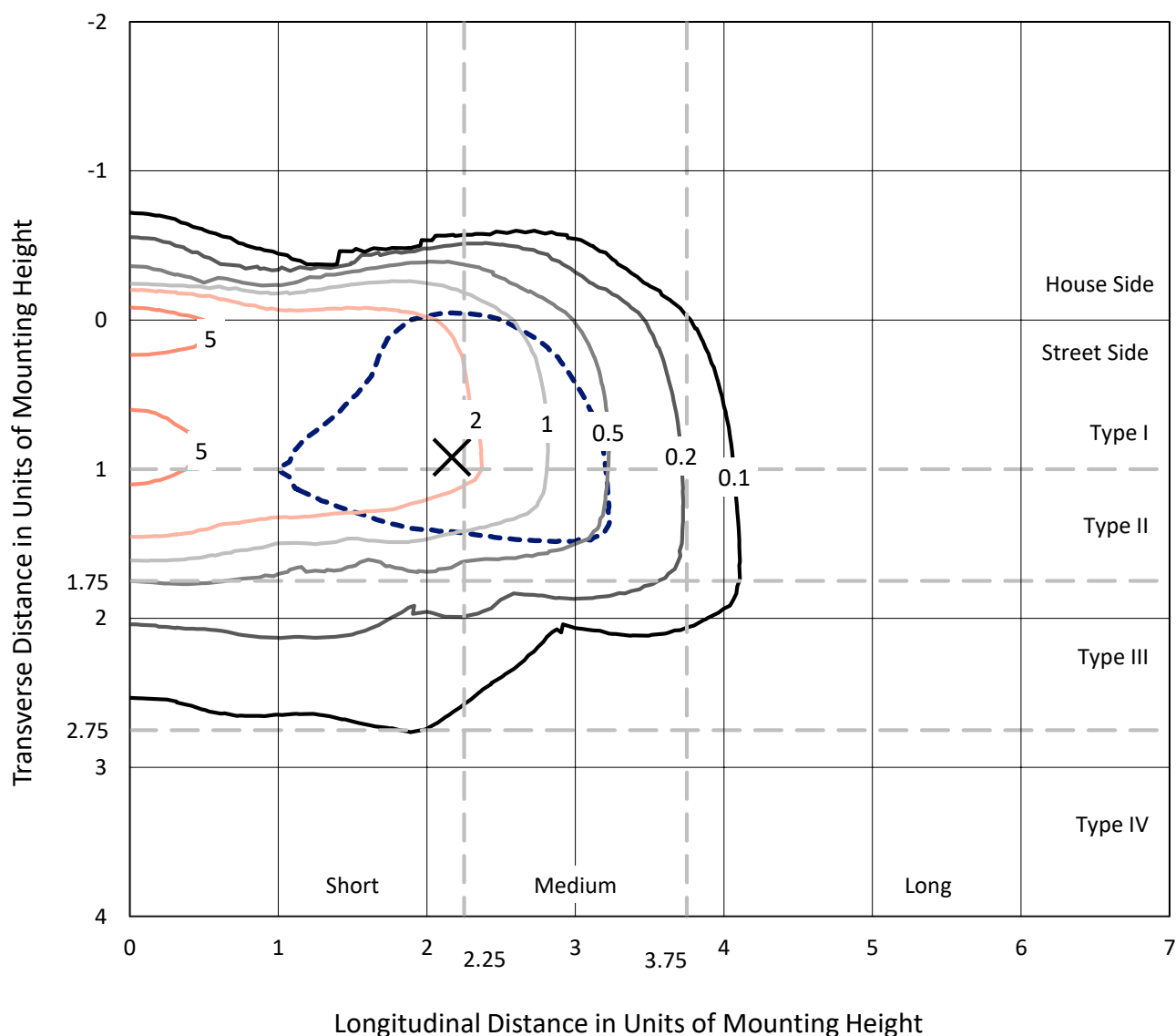
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

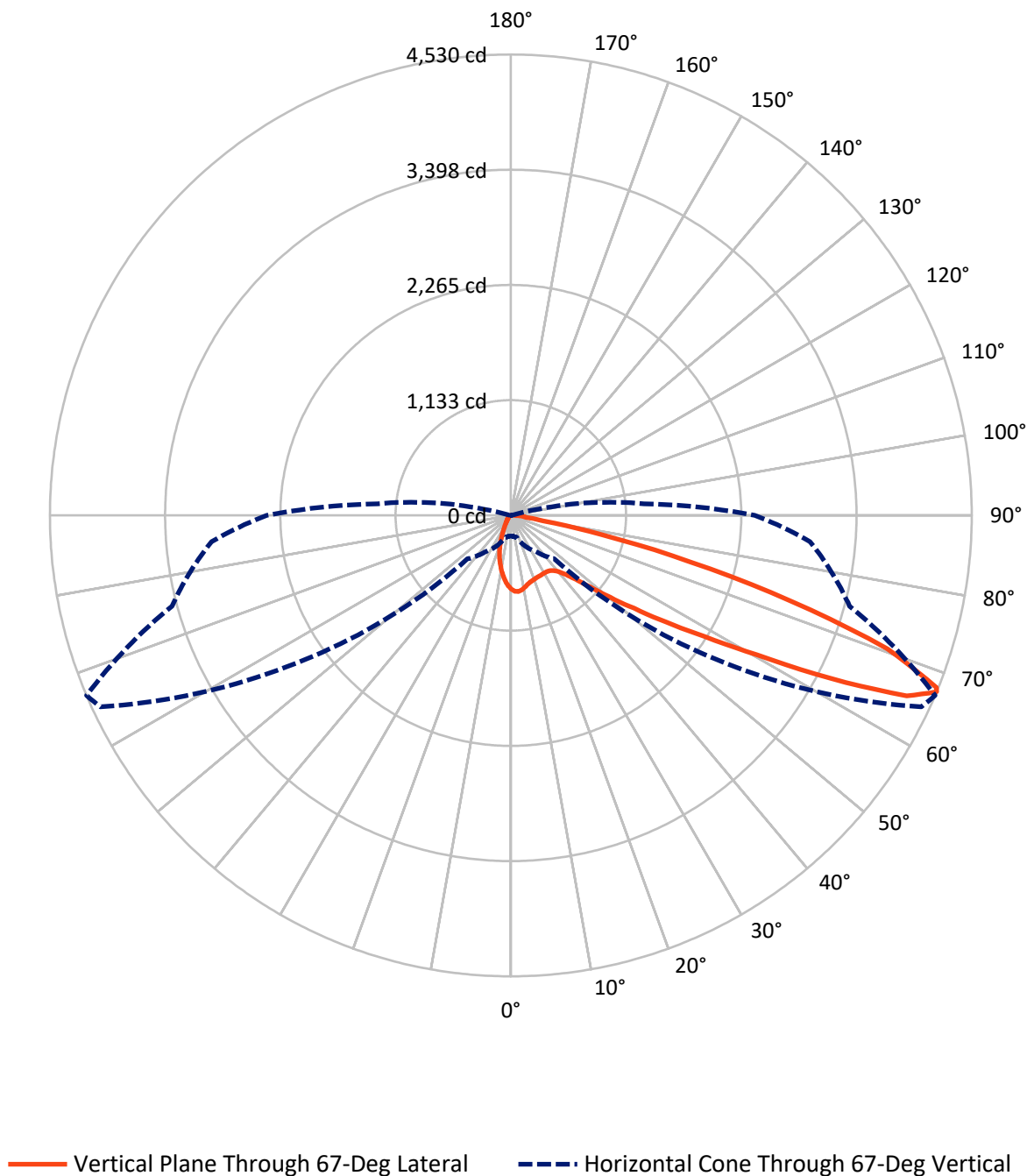


Based on 10 foot mounting height. Maximum calculated value = 7.3 fc  
 Type II - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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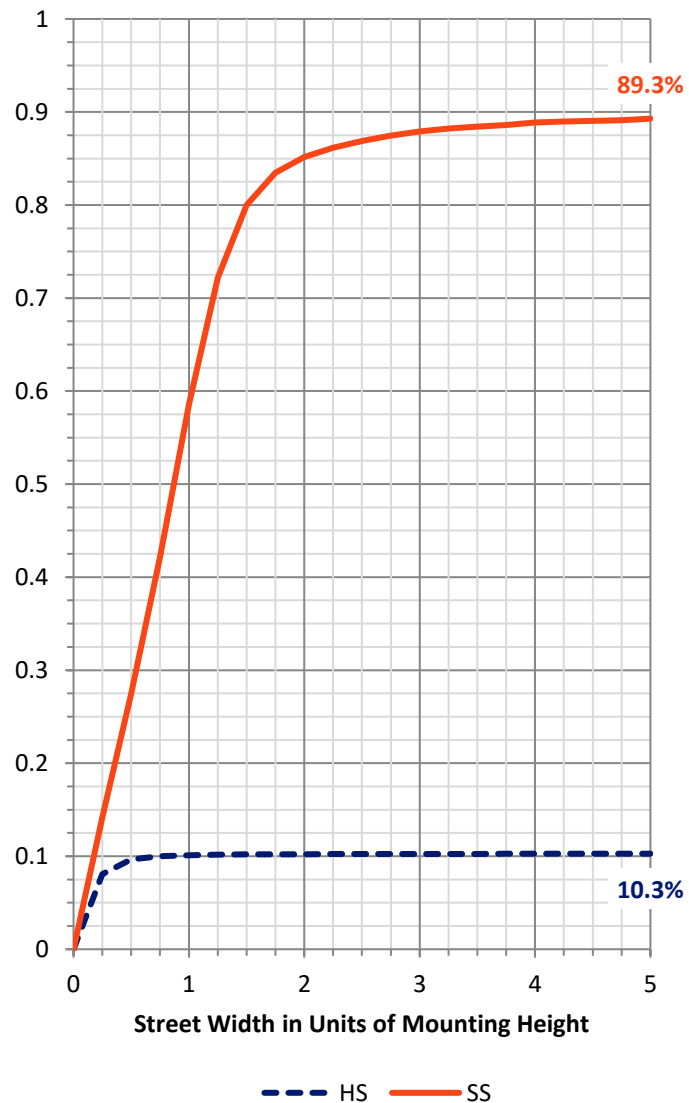
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 341.6    | 0.0    | 341.6  |
|                    | % Fixture | 10.4     | 0.0    | 10.4   |
| <b>Street Side</b> | Lumens    | 2948.2   | 0.0    | 2948.2 |
|                    | % Fixture | 89.6     | 0.0    | 89.6   |
| <b>Total</b>       | Lumens    | 3289.8   | 0.0    | 3289.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 59.0   | 1.8       |
| 10°-20°   | 125.6  | 3.8       |
| 20°-30°   | 182.7  | 5.6       |
| 30°-40°   | 285.0  | 8.7       |
| 40°-50°   | 504.8  | 15.3      |
| 50°-60°   | 798.9  | 24.3      |
| 60°-70°   | 915.0  | 27.8      |
| 70°-80°   | 379.5  | 11.5      |
| 80°-90°   | 39.2   | 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°    | 3289.8 | 100.0     |
| 0°-180°   | 3289.8 | 100.0     |

**Coefficient of Utilization**



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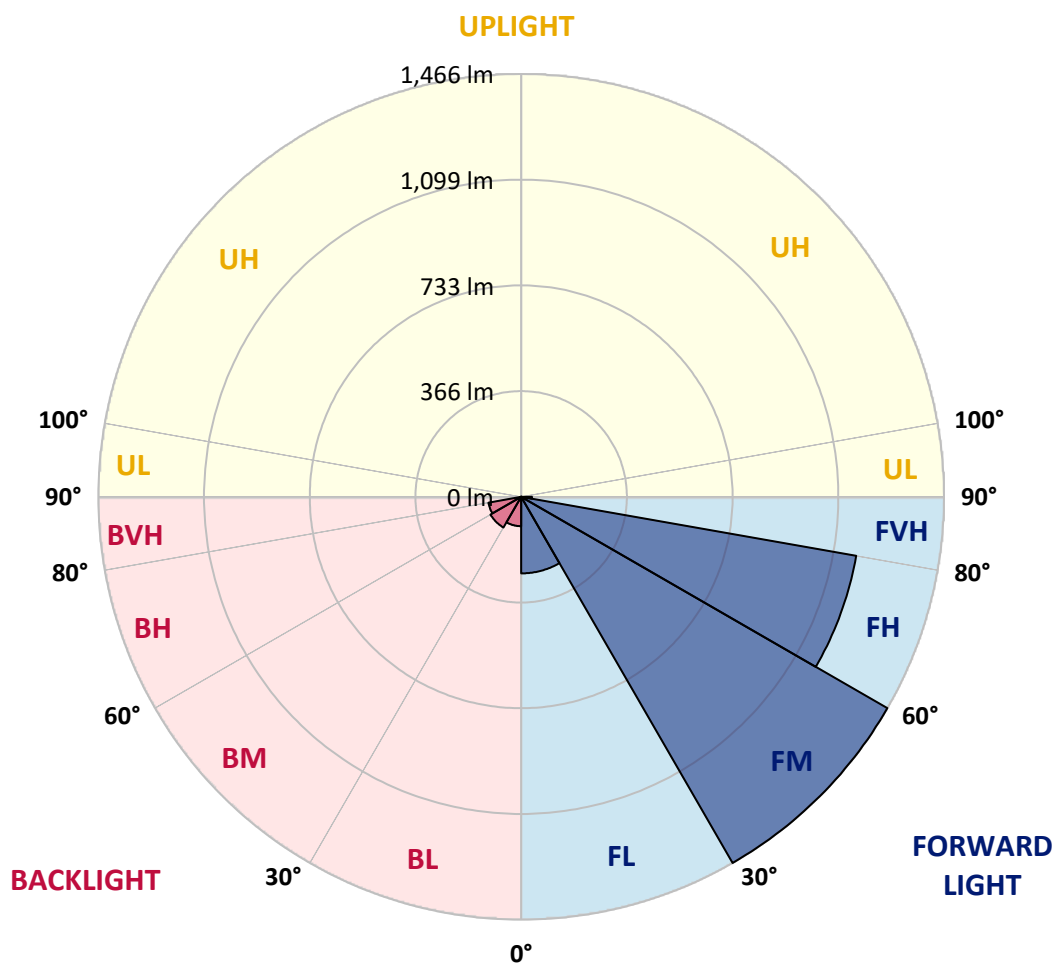
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 265.4  | 8.1       |                         |      |         |
| FM   | (30°-60°)   | 1465.9 | 44.6      |                         |      |         |
| FH   | (60°-80°)   | 1179.4 | 35.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 37.4   | 1.1       |                         |      | G1/100  |
| BL   | (0°-30°)    | 101.9  | 3.1       | B0/110                  |      |         |
| BM   | (30°-60°)   | 122.8  | 3.7       | B0/220                  |      |         |
| BH   | (60°-80°)   | 115.1  | 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°    | 725.5  | 725.5  | 725.5  | 725.5  | 725.5  | 725.5  | 725.5  | 725.5  | 725.5  | 725.5  | 725.5  |
| 2.5°  | 750.1  | 751.6  | 751.3  | 752.6  | 755.3  | 755.4  | 752.8  | 747.6  | 746.5  | 739.6  | 728.0  |
| 5°    | 691.7  | 696.2  | 698.8  | 709.7  | 722.1  | 736.9  | 748.0  | 752.0  | 751.3  | 746.7  | 729.0  |
| 7.5°  | 625.2  | 629.6  | 632.6  | 645.5  | 661.8  | 687.1  | 716.0  | 739.9  | 742.0  | 747.3  | 728.2  |
| 10°   | 580.8  | 581.6  | 585.8  | 598.0  | 615.2  | 641.2  | 675.7  | 717.3  | 723.7  | 742.6  | 726.2  |
| 12.5° | 544.3  | 544.9  | 550.5  | 563.8  | 582.1  | 608.1  | 644.3  | 692.4  | 702.3  | 736.9  | 725.9  |
| 15°   | 518.4  | 520.6  | 525.5  | 539.4  | 558.8  | 584.6  | 621.9  | 674.2  | 686.0  | 734.8  | 729.3  |
| 17.5° | 509.8  | 512.1  | 513.6  | 523.7  | 541.3  | 566.6  | 604.9  | 662.4  | 675.7  | 735.9  | 736.1  |
| 20°   | 518.9  | 520.6  | 517.2  | 519.6  | 530.6  | 553.2  | 590.4  | 652.2  | 667.9  | 737.2  | 744.7  |
| 22.5° | 552.5  | 553.2  | 543.8  | 532.8  | 531.0  | 543.4  | 579.1  | 644.2  | 661.0  | 740.9  | 754.9  |
| 25°   | 610.0  | 608.7  | 593.3  | 569.7  | 547.5  | 541.7  | 572.4  | 639.1  | 657.6  | 744.7  | 765.5  |
| 27.5° | 679.5  | 681.3  | 660.3  | 625.9  | 583.6  | 553.2  | 571.4  | 637.1  | 656.1  | 747.5  | 774.6  |
| 30°   | 763.9  | 766.6  | 742.4  | 699.3  | 638.4  | 581.6  | 580.2  | 636.7  | 655.1  | 745.7  | 775.4  |
| 32.5° | 850.0  | 853.4  | 834.3  | 789.8  | 711.8  | 629.3  | 600.3  | 641.0  | 656.9  | 739.6  | 771.1  |
| 35°   | 940.2  | 944.9  | 932.2  | 894.0  | 811.1  | 697.8  | 635.4  | 653.8  | 666.1  | 739.1  | 766.6  |
| 37.5° | 1064.7 | 1069.0 | 1045.2 | 1004.7 | 931.4  | 790.0  | 691.7  | 678.0  | 687.4  | 748.3  | 767.8  |
| 40°   | 1250.7 | 1250.2 | 1188.7 | 1126.8 | 1063.6 | 907.1  | 771.1  | 721.6  | 726.5  | 776.2  | 782.0  |
| 42.5° | 1453.3 | 1452.4 | 1361.6 | 1267.4 | 1210.4 | 1051.2 | 875.1  | 797.3  | 794.0  | 827.4  | 818.8  |
| 45°   | 1609.5 | 1609.4 | 1535.3 | 1429.2 | 1387.1 | 1216.6 | 1009.9 | 902.5  | 897.4  | 910.6  | 886.7  |
| 47.5° | 1676.1 | 1677.2 | 1640.1 | 1565.3 | 1583.0 | 1440.2 | 1179.7 | 1054.8 | 1047.4 | 1041.9 | 1005.5 |
| 50°   | 1624.3 | 1626.7 | 1629.7 | 1615.1 | 1726.8 | 1740.9 | 1407.5 | 1269.5 | 1265.9 | 1241.8 | 1184.9 |
| 52.5° | 1455.2 | 1466.8 | 1502.9 | 1549.1 | 1776.7 | 2029.6 | 1764.5 | 1536.3 | 1516.6 | 1491.2 | 1428.3 |
| 55°   | 1169.9 | 1182.8 | 1251.2 | 1363.5 | 1702.4 | 2219.2 | 2265.1 | 1880.2 | 1847.5 | 1771.3 | 1680.7 |
| 57.5° | 774.2  | 794.2  | 893.6  | 1036.4 | 1486.7 | 2249.6 | 2764.3 | 2357.3 | 2243.7 | 2035.2 | 1933.1 |
| 60°   | 426.5  | 445.8  | 553.6  | 682.9  | 1073.8 | 2098.9 | 3100.1 | 2978.6 | 2777.9 | 2330.1 | 2239.5 |
| 62.5° | 262.7  | 273.0  | 352.7  | 473.0  | 644.0  | 1656.6 | 3169.6 | 3759.4 | 3527.1 | 2709.8 | 2609.6 |
| 65°   | 209.1  | 213.6  | 252.5  | 386.7  | 461.7  | 985.3  | 2945.3 | 4354.6 | 4277.2 | 3169.6 | 2941.0 |
| 67°   | 203.0  | 204.8  | 223.2  | 331.9  | 435.2  | 604.1  | 2467.5 | 4451.6 | 4530.2 | 3447.7 | 2951.4 |
| 67.5° | 204.4  | 206.3  | 223.8  | 316.9  | 434.5  | 555.1  | 2302.8 | 4413.4 | 4512.7 | 3469.8 | 2905.5 |
| 70°   | 197.1  | 203.0  | 256.2  | 316.7  | 413.1  | 461.3  | 1379.1 | 3823.8 | 3927.4 | 3224.0 | 2465.3 |
| 72.5° | 69.8   | 70.3   | 110.7  | 256.2  | 449.2  | 466.3  | 692.4  | 2803.3 | 2879.8 | 2466.3 | 1777.4 |
| 75°   | 41.4   | 35.3   | 36.8   | 72.8   | 429.3  | 452.9  | 399.6  | 1791.3 | 1819.8 | 1413.3 | 900.2  |
| 77.5° | 28.6   | 24.9   | 25.6   | 32.2   | 163.5  | 446.6  | 317.4  | 934.0  | 903.6  | 495.6  | 191.6  |
| 80°   | 16.3   | 14.4   | 15.3   | 28.2   | 59.4   | 416.6  | 299.4  | 378.8  | 323.0  | 84.0   | 53.0   |
| 82.5° | 8.6    | 7.3    | 8.8    | 23.3   | 41.4   | 259.6  | 299.9  | 183.0  | 145.1  | 28.4   | 36.0   |
| 85°   | 3.1    | 2.5    | 4.3    | 16.0   | 27.7   | 79.6   | 278.1  | 153.9  | 120.8  | 13.7   | 27.5   |
| 87.5° | 0.5    | 0.5    | 1.7    | 6.5    | 11.2   | 24.4   | 164.4  | 91.3   | 61.1   | 8.3    | 18.8   |
| 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°    | 725.5  | 725.5  | 725.5 | 725.5 | 725.5 | 725.5 | 725.5 | 725.5 | 725.5 | 725.5 | 725.5 |
| 2.5°  | 723.2  | 715.0  | 703.8 | 690.2 | 674.1 | 659.9 | 649.3 | 638.4 | 636.1 | 632.3 | 631.7 |
| 5°    | 718.4  | 704.1  | 676.7 | 644.9 | 611.2 | 580.6 | 555.9 | 533.8 | 524.0 | 515.6 | 514.6 |
| 7.5°  | 711.3  | 690.0  | 643.0 | 591.9 | 539.2 | 491.2 | 450.5 | 421.7 | 395.3 | 382.6 | 380.7 |
| 10°   | 703.1  | 672.6  | 605.2 | 534.4 | 461.5 | 393.8 | 333.3 | 282.7 | 252.0 | 233.7 | 231.4 |
| 12.5° | 695.4  | 655.4  | 566.6 | 474.7 | 377.8 | 287.3 | 209.6 | 161.1 | 128.9 | 116.0 | 114.4 |
| 15°   | 691.7  | 641.7  | 530.6 | 413.6 | 290.3 | 182.9 | 114.5 | 88.6  | 78.1  | 75.1  | 74.9  |
| 17.5° | 691.4  | 630.0  | 495.3 | 350.6 | 203.4 | 106.3 | 74.7  | 68.1  | 66.0  | 65.2  | 65.2  |
| 20°   | 691.2  | 618.9  | 460.0 | 285.1 | 129.2 | 70.8  | 62.2  | 60.6  | 59.1  | 58.1  | 58.1  |
| 22.5° | 693.2  | 608.9  | 423.2 | 218.4 | 81.4  | 57.4  | 54.7  | 53.1  | 51.3  | 49.9  | 49.7  |
| 25°   | 695.4  | 601.2  | 385.4 | 155.4 | 58.9  | 49.9  | 47.2  | 45.2  | 42.4  | 40.7  | 40.5  |
| 27.5° | 695.8  | 591.6  | 345.2 | 104.1 | 49.2  | 43.6  | 40.1  | 36.8  | 33.8  | 32.0  | 31.9  |
| 30°   | 690.0  | 575.5  | 300.5 | 70.3  | 43.6  | 37.8  | 33.3  | 29.7  | 26.9  | 25.5  | 25.5  |
| 32.5° | 678.7  | 555.5  | 251.4 | 53.0  | 38.8  | 32.4  | 27.5  | 24.1  | 22.3  | 21.7  | 21.6  |
| 35°   | 668.5  | 534.1  | 200.9 | 44.9  | 34.8  | 27.5  | 22.4  | 20.3  | 19.2  | 19.0  | 18.8  |
| 37.5° | 662.5  | 516.8  | 153.5 | 40.7  | 30.9  | 23.1  | 19.0  | 17.5  | 16.9  | 16.5  | 16.7  |
| 40°   | 667.1  | 502.4  | 113.4 | 37.2  | 27.1  | 19.2  | 16.2  | 15.3  | 14.7  | 14.5  | 14.5  |
| 42.5° | 687.4  | 499.9  | 84.2  | 34.2  | 23.4  | 16.0  | 13.9  | 13.4  | 13.0  | 12.9  | 13.0  |
| 45°   | 740.3  | 515.2  | 65.4  | 31.2  | 19.7  | 13.4  | 11.9  | 11.7  | 11.5  | 11.5  | 11.5  |
| 47.5° | 819.9  | 546.9  | 54.5  | 28.0  | 16.5  | 11.5  | 10.4  | 10.2  | 10.0  | 10.2  | 10.2  |
| 50°   | 954.8  | 604.9  | 48.7  | 24.8  | 13.6  | 9.9   | 8.8   | 8.8   | 8.8   | 8.8   | 9.1   |
| 52.5° | 1160.0 | 718.8  | 44.9  | 21.6  | 11.2  | 8.3   | 7.4   | 7.4   | 7.6   | 7.6   | 7.8   |
| 55°   | 1388.4 | 870.0  | 41.4  | 18.2  | 9.4   | 6.9   | 6.1   | 6.3   | 6.5   | 6.7   | 6.7   |
| 57.5° | 1636.3 | 1037.5 | 38.6  | 15.0  | 8.0   | 5.6   | 5.1   | 5.4   | 5.6   | 5.9   | 5.9   |
| 60°   | 1935.5 | 1218.9 | 34.3  | 11.7  | 6.7   | 4.4   | 4.1   | 4.4   | 5.0   | 5.4   | 5.6   |
| 62.5° | 2264.1 | 1394.2 | 29.0  | 9.2   | 5.6   | 3.5   | 3.3   | 4.1   | 4.8   | 5.1   | 5.4   |
| 65°   | 2488.6 | 1449.4 | 22.3  | 7.4   | 4.3   | 2.5   | 2.7   | 3.6   | 4.6   | 5.1   | 5.1   |
| 67°   | 2397.5 | 1314.1 | 18.2  | 6.3   | 3.5   | 1.9   | 2.5   | 3.6   | 4.6   | 5.0   | 5.1   |
| 67.5° | 2334.5 | 1261.1 | 17.5  | 6.1   | 3.3   | 1.9   | 2.5   | 3.6   | 4.6   | 5.1   | 5.1   |
| 70°   | 1899.5 | 947.4  | 14.5  | 4.6   | 2.7   | 1.7   | 2.0   | 3.5   | 4.4   | 5.0   | 5.0   |
| 72.5° | 1319.8 | 584.1  | 13.0  | 3.3   | 2.3   | 1.5   | 1.9   | 3.3   | 4.3   | 4.8   | 5.0   |
| 75°   | 627.4  | 211.4  | 11.2  | 2.5   | 2.0   | 1.3   | 1.7   | 3.3   | 4.3   | 4.8   | 4.8   |
| 77.5° | 128.0  | 49.1   | 9.1   | 2.0   | 1.7   | 1.3   | 1.5   | 3.1   | 4.1   | 4.6   | 4.6   |
| 80°   | 42.1   | 19.0   | 6.7   | 1.9   | 1.7   | 1.3   | 1.5   | 2.8   | 4.1   | 4.4   | 4.6   |
| 82.5° | 30.3   | 9.7    | 4.4   | 1.9   | 1.7   | 1.3   | 1.3   | 2.8   | 3.9   | 4.4   | 4.4   |
| 85°   | 23.3   | 6.7    | 2.8   | 1.9   | 1.7   | 1.3   | 1.3   | 2.7   | 3.6   | 4.3   | 4.3   |
| 87.5° | 15.3   | 2.7    | 2.3   | 1.9   | 1.7   | 1.3   | 1.3   | 2.7   | 3.5   | 4.1   | 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)