

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: P190951

Luminaire Tested: **GAN-AF-03-LED-U-AFL-600-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190951  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-03-LED-U-AFL-600-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12565.9 lumens  
Efficiency: N/A  
Efficacy: 130.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

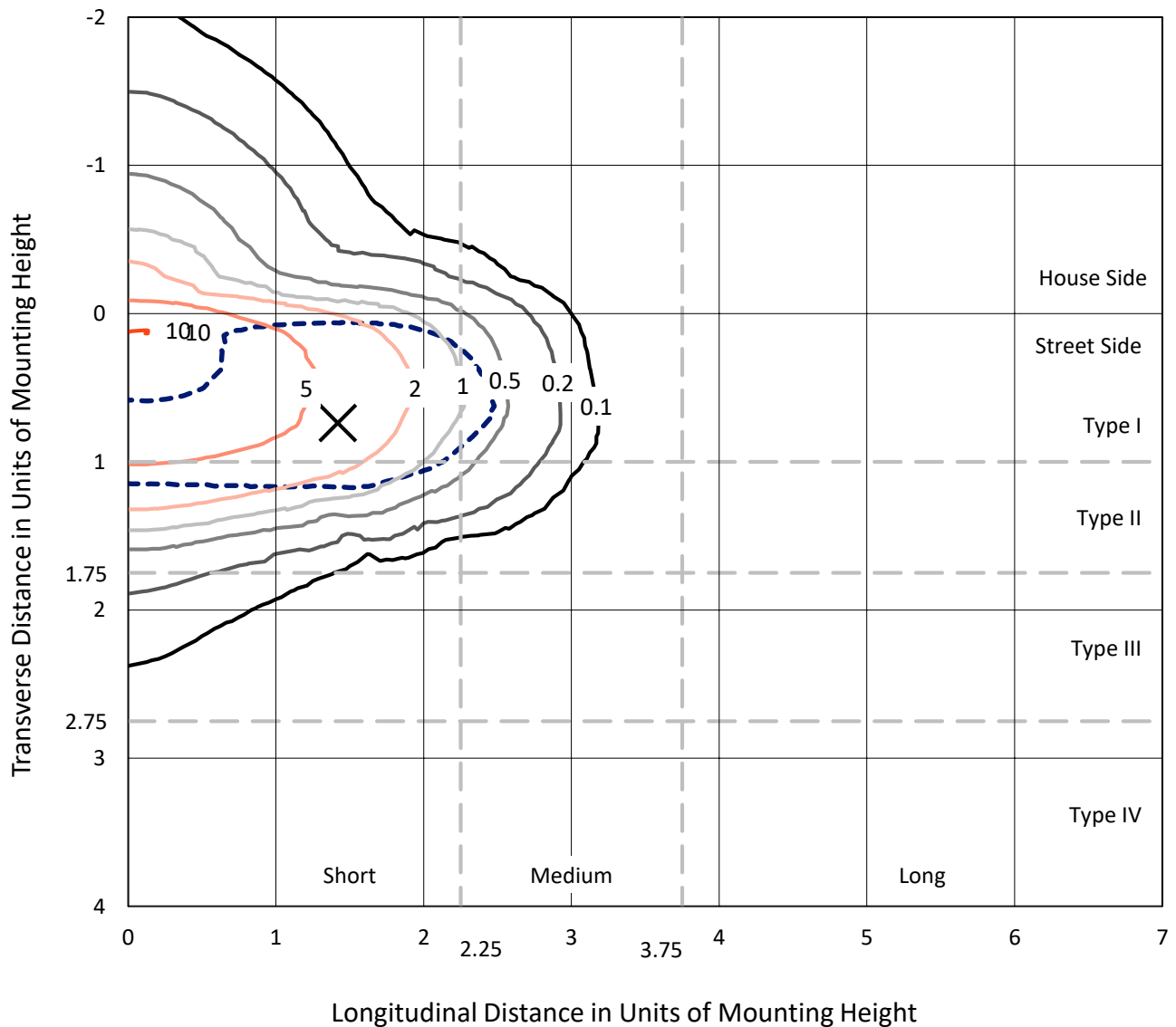
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

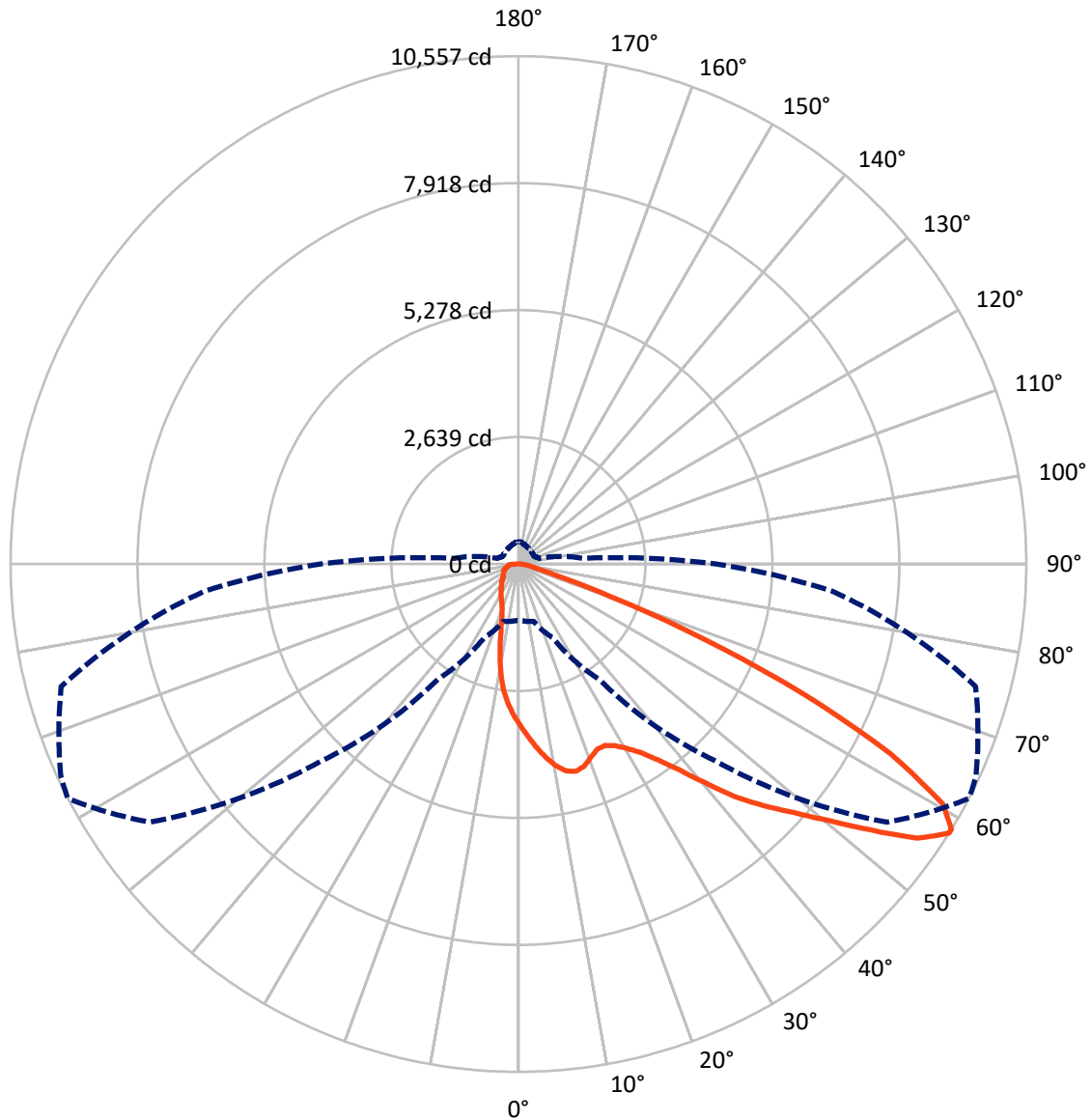
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.2 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1916.3   | 0.0    | 1916.3  |
|                    | % Fixture | 15.3     | 0.0    | 15.3    |
| <b>Street Side</b> | Lumens    | 10649.6  | 0.0    | 10649.6 |
|                    | % Fixture | 84.7     | 0.0    | 84.7    |
| <b>Total</b>       | Lumens    | 12565.9  | 0.0    | 12565.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 298.5   | 2.4       |
| 10°-20°   | 763.1   | 6.1       |
| 20°-30°   | 1233.5  | 9.8       |
| 30°-40°   | 1958.2  | 15.6      |
| 40°-50°   | 2865.3  | 22.8      |
| 50°-60°   | 2996.9  | 23.8      |
| 60°-70°   | 1770.5  | 14.1      |
| 70°-80°   | 498.8   | 4.0       |
| 80°-90°   | 181.1   | 1.4       |
| 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°    | 12565.9 | 100.0     |
| 0°-180°   | 12565.9 | 100.0     |

**Coefficient of Utilization**



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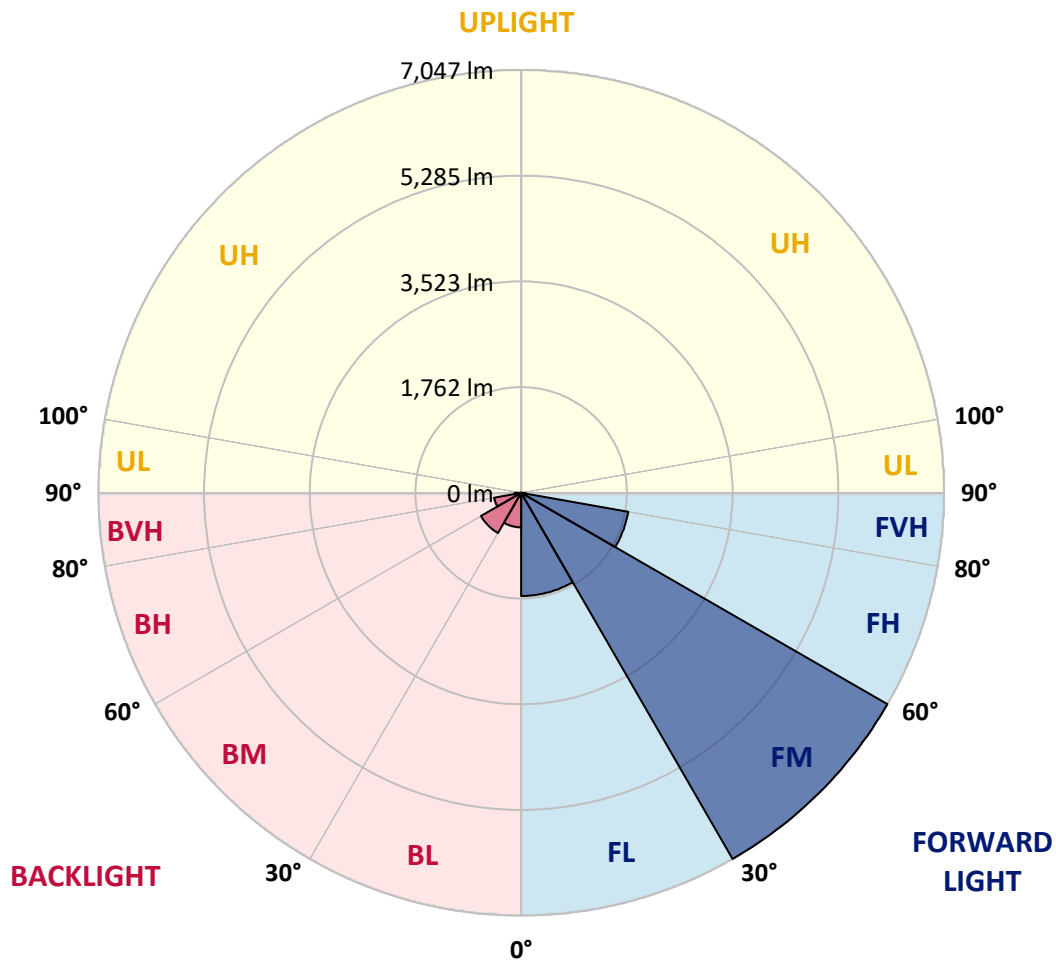
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1719.2 | 13.7      |                         |      |         |
| FM   | (30°-60°)   | 7046.9 | 56.1      |                         |      |         |
| FH   | (60°-80°)   | 1812.1 | 14.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 71.4   | 0.6       |                         |      | G1/100  |
| BL   | (0°-30°)    | 576.0  | 4.6       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 773.5  | 6.2       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 457.3  | 3.6       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 109.6  | 0.9       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 62.5°   | 65°     | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|
| 0°    | 3337.9 | 3337.9 | 3337.9 | 3337.9 | 3337.9 | 3337.9 | 3337.9 | 3337.9  | 3337.9  | 3337.9 | 3337.9 |
| 2.5°  | 3814.2 | 3783.5 | 3763.9 | 3746.8 | 3724.3 | 3676.4 | 3611.8 | 3571.0  | 3550.4  | 3479.9 | 3396.5 |
| 5°    | 4188.2 | 4161.0 | 4140.8 | 4117.8 | 4077.5 | 4002.4 | 3898.3 | 3815.4  | 3774.6  | 3633.7 | 3466.9 |
| 7.5°  | 4100.6 | 4111.9 | 4146.7 | 4207.7 | 4259.8 | 4249.7 | 4156.9 | 4051.5  | 3997.7  | 3801.8 | 3548.5 |
| 10°   | 3572.8 | 3592.3 | 3652.7 | 3795.2 | 4026.0 | 4262.7 | 4335.0 | 4262.1  | 4207.7  | 3968.0 | 3632.6 |
| 12.5° | 3466.9 | 3466.3 | 3471.0 | 3508.9 | 3646.2 | 3979.3 | 4340.9 | 4414.2  | 4381.7  | 4126.7 | 3718.3 |
| 15°   | 3510.1 | 3511.3 | 3507.7 | 3523.7 | 3566.3 | 3698.3 | 4159.8 | 4472.8  | 4495.9  | 4286.4 | 3807.1 |
| 17.5° | 3623.7 | 3620.7 | 3607.1 | 3607.1 | 3622.5 | 3673.9 | 3946.7 | 4418.3  | 4524.9  | 4427.8 | 3885.3 |
| 20°   | 3814.2 | 3800.6 | 3764.6 | 3731.4 | 3714.8 | 3742.6 | 3859.2 | 4292.9  | 4474.6  | 4551.5 | 3949.7 |
| 22.5° | 4045.0 | 4034.3 | 3975.8 | 3904.7 | 3847.3 | 3846.8 | 3904.2 | 4183.5  | 4387.6  | 4668.0 | 4004.1 |
| 25°   | 4343.2 | 4326.1 | 4239.1 | 4125.5 | 4024.9 | 3986.4 | 4002.4 | 4178.1  | 4340.3  | 4794.7 | 4052.7 |
| 27.5° | 4693.5 | 4662.1 | 4559.2 | 4395.3 | 4247.4 | 4169.9 | 4146.7 | 4274.6  | 4383.4  | 4951.5 | 4120.1 |
| 30°   | 5118.3 | 5082.2 | 4950.4 | 4736.7 | 4527.8 | 4400.6 | 4351.5 | 4445.5  | 4526.7  | 5142.6 | 4228.5 |
| 32.5° | 5601.8 | 5549.7 | 5397.1 | 5161.6 | 4887.0 | 4692.9 | 4613.0 | 4671.6  | 4736.2  | 5372.8 | 4363.9 |
| 35°   | 6269.9 | 6207.7 | 5987.0 | 5662.1 | 5352.1 | 5085.2 | 4957.4 | 5000.0  | 5062.8  | 5716.0 | 4559.8 |
| 37.5° | 6725.5 | 6697.7 | 6550.9 | 6245.6 | 5908.3 | 5601.2 | 5403.5 | 5428.4  | 5463.9  | 6145.0 | 4810.6 |
| 40°   | 6721.3 | 6732.6 | 6735.5 | 6738.5 | 6508.9 | 6214.8 | 6002.4 | 5976.4  | 5969.2  | 6616.0 | 5095.8 |
| 42.5° | 6384.6 | 6430.8 | 6579.9 | 6882.3 | 7021.9 | 6887.0 | 6692.3 | 6617.2  | 6579.9  | 7171.0 | 5398.2 |
| 45°   | 5869.3 | 5894.1 | 6173.4 | 6764.0 | 7284.6 | 7552.7 | 7405.3 | 7168.6  | 7101.2  | 7681.1 | 5649.1 |
| 47.5° | 5603.6 | 5630.8 | 5806.6 | 6450.3 | 7281.7 | 8090.5 | 8175.7 | 7724.9  | 7604.2  | 8124.9 | 5865.7 |
| 50°   | 4971.0 | 5027.8 | 5249.2 | 5904.8 | 7016.0 | 8337.9 | 8981.1 | 8387.6  | 8137.9  | 8556.9 | 6082.9 |
| 52.5° | 3809.5 | 3897.0 | 4145.0 | 5007.8 | 6342.0 | 8215.4 | 9625.5 | 9191.1  | 8838.5  | 9004.2 | 6269.3 |
| 55°   | 2403.0 | 2468.1 | 2676.3 | 3536.8 | 5073.4 | 7578.1 | 9869.8 | 10060.4 | 9746.8  | 9427.8 | 6430.8 |
| 57.5° | 1306.5 | 1335.5 | 1413.6 | 1952.7 | 3300.0 | 6169.2 | 9513.6 | 10555.1 | 10424.9 | 9787.6 | 6552.7 |
| 58°   | 1169.2 | 1188.8 | 1237.3 | 1692.3 | 2926.7 | 5784.1 | 9355.7 | 10556.9 | 10491.8 | 9840.3 | 6562.1 |
| 60°   | 867.5  | 857.4  | 814.2  | 965.7  | 1629.0 | 3995.9 | 8400.6 | 10134.4 | 10325.5 | 9904.7 | 6516.0 |
| 62.5° | 762.1  | 737.9  | 649.7  | 639.7  | 792.3  | 1840.8 | 6427.8 | 8681.1  | 9132.6  | 9536.8 | 6235.5 |
| 65°   | 716.0  | 690.0  | 576.3  | 539.6  | 571.6  | 778.7  | 3786.5 | 6510.7  | 7077.0  | 8420.7 | 5518.4 |
| 67.5° | 681.7  | 647.9  | 529.6  | 479.3  | 481.7  | 514.7  | 1517.8 | 4100.6  | 4737.9  | 6393.5 | 4292.3 |
| 70°   | 648.6  | 611.8  | 490.0  | 432.0  | 418.4  | 407.1  | 603.5  | 2052.7  | 2630.8  | 4038.5 | 2736.7 |
| 72.5° | 613.1  | 576.9  | 455.0  | 394.7  | 368.1  | 330.7  | 394.0  | 839.6   | 1172.8  | 1910.7 | 1241.5 |
| 75°   | 561.5  | 529.0  | 420.1  | 361.5  | 323.7  | 273.9  | 297.7  | 438.4   | 526.0   | 761.0  | 598.2  |
| 77.5° | 498.2  | 471.6  | 381.0  | 334.3  | 286.9  | 222.5  | 229.0  | 304.1   | 337.3   | 435.5  | 355.6  |
| 80°   | 358.0  | 367.4  | 339.0  | 300.5  | 255.6  | 180.4  | 175.7  | 221.9   | 239.7   | 279.9  | 231.4  |
| 82.5° | 251.4  | 256.8  | 280.5  | 245.6  | 211.2  | 142.0  | 129.6  | 156.2   | 166.8   | 184.0  | 124.9  |
| 85°   | 173.4  | 167.5  | 192.3  | 171.0  | 152.6  | 94.7   | 88.8   | 105.9   | 112.4   | 114.2  | 64.5   |
| 87.5° | 104.1  | 104.1  | 111.2  | 91.8   | 82.2   | 49.1   | 48.0   | 60.4    | 64.5    | 61.6   | 35.5   |
| 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°    | 3337.9 | 3337.9 | 3337.9 | 3337.9 | 3337.9 | 3337.9 | 3337.9 | 3337.9 | 3337.9 | 3337.9 | 3337.9 |
| 2.5°  | 3346.8 | 3304.7 | 3215.4 | 3143.8 | 3053.3 | 2959.2 | 2906.5 | 2850.4 | 2811.9 | 2784.1 | 2828.5 |
| 5°    | 3372.2 | 3286.4 | 3101.8 | 2926.7 | 2733.1 | 2532.0 | 2379.3 | 2237.3 | 2138.5 | 2076.9 | 2134.9 |
| 7.5°  | 3412.5 | 3280.5 | 2986.4 | 2687.0 | 2339.7 | 2004.8 | 1705.4 | 1517.8 | 1408.3 | 1354.5 | 1388.1 |
| 10°   | 3458.6 | 3271.0 | 2850.9 | 2362.1 | 1865.1 | 1443.2 | 1219.6 | 1143.8 | 1118.9 | 1108.9 | 1113.6 |
| 12.5° | 3497.1 | 3250.9 | 2684.6 | 1969.3 | 1400.6 | 1139.7 | 1075.1 | 1073.4 | 1078.7 | 1079.9 | 1081.7 |
| 15°   | 3524.3 | 3221.3 | 2437.9 | 1559.8 | 1120.1 | 1038.5 | 1034.9 | 1045.6 | 1055.6 | 1059.8 | 1062.1 |
| 17.5° | 3542.6 | 3160.4 | 2159.1 | 1233.2 | 1003.5 | 989.4  | 997.7  | 1011.3 | 1021.9 | 1024.9 | 1027.2 |
| 20°   | 3540.8 | 3071.0 | 1827.2 | 1028.4 | 940.2  | 940.2  | 954.4  | 965.1  | 965.7  | 962.1  | 963.9  |
| 22.5° | 3522.5 | 2948.6 | 1505.4 | 919.5  | 884.0  | 894.1  | 908.3  | 898.3  | 856.8  | 829.6  | 831.4  |
| 25°   | 3491.7 | 2802.4 | 1229.6 | 850.3  | 832.0  | 849.7  | 845.6  | 769.9  | 710.6  | 684.0  | 684.0  |
| 27.5° | 3464.5 | 2629.6 | 1017.7 | 789.9  | 779.9  | 801.8  | 728.4  | 659.8  | 634.9  | 622.5  | 618.4  |
| 30°   | 3445.0 | 2443.2 | 876.4  | 731.9  | 730.8  | 714.8  | 632.0  | 613.1  | 608.9  | 598.8  | 595.3  |
| 32.5° | 3449.7 | 2254.5 | 785.8  | 681.1  | 685.2  | 611.8  | 585.8  | 589.9  | 586.4  | 575.7  | 571.0  |
| 35°   | 3488.8 | 2075.2 | 726.6  | 634.9  | 622.5  | 552.7  | 558.5  | 566.3  | 565.1  | 550.3  | 545.5  |
| 37.5° | 3558.6 | 1905.3 | 687.6  | 596.5  | 543.2  | 523.0  | 532.5  | 544.4  | 541.4  | 531.3  | 527.8  |
| 40°   | 3632.0 | 1745.6 | 655.6  | 566.3  | 496.4  | 503.0  | 511.3  | 517.7  | 520.7  | 523.6  | 521.3  |
| 42.5° | 3703.6 | 1578.7 | 616.5  | 535.5  | 476.9  | 484.1  | 487.5  | 494.1  | 510.0  | 521.3  | 520.7  |
| 45°   | 3746.1 | 1421.9 | 576.3  | 491.7  | 461.6  | 465.6  | 463.3  | 476.3  | 495.8  | 514.2  | 514.7  |
| 47.5° | 3793.5 | 1300.0 | 544.4  | 451.5  | 446.7  | 449.7  | 442.6  | 455.6  | 473.4  | 495.8  | 498.2  |
| 50°   | 3850.9 | 1227.2 | 518.9  | 419.5  | 426.7  | 426.7  | 424.8  | 436.7  | 461.6  | 487.5  | 492.3  |
| 52.5° | 3916.0 | 1213.0 | 497.7  | 396.5  | 406.5  | 405.9  | 407.6  | 425.4  | 452.7  | 478.1  | 482.2  |
| 55°   | 3995.2 | 1251.5 | 474.5  | 379.3  | 387.0  | 389.3  | 395.3  | 415.4  | 438.4  | 467.5  | 469.2  |
| 57.5° | 4087.6 | 1329.6 | 456.2  | 365.7  | 369.2  | 377.0  | 386.4  | 404.8  | 429.5  | 461.6  | 463.3  |
| 58°   | 4103.0 | 1346.2 | 453.3  | 364.5  | 365.7  | 374.6  | 385.2  | 402.9  | 427.8  | 462.7  | 464.5  |
| 60°   | 4103.6 | 1401.2 | 446.7  | 359.2  | 352.1  | 366.8  | 378.7  | 396.5  | 424.8  | 466.9  | 471.0  |
| 62.5° | 3958.0 | 1400.6 | 442.0  | 351.5  | 337.9  | 356.2  | 369.8  | 390.6  | 421.9  | 476.9  | 485.2  |
| 65°   | 3485.2 | 1272.8 | 419.5  | 339.6  | 326.6  | 346.8  | 362.1  | 386.4  | 430.2  | 520.7  | 526.0  |
| 67.5° | 2726.1 | 1043.2 | 377.5  | 323.0  | 311.8  | 337.3  | 357.4  | 385.8  | 439.1  | 530.8  | 534.3  |
| 70°   | 1802.3 | 780.5  | 331.3  | 304.1  | 296.5  | 326.0  | 359.8  | 405.9  | 429.0  | 509.4  | 500.0  |
| 72.5° | 935.5  | 547.9  | 294.1  | 280.5  | 278.7  | 316.0  | 394.0  | 403.6  | 418.9  | 479.3  | 467.5  |
| 75°   | 491.1  | 380.4  | 261.6  | 254.4  | 257.4  | 313.6  | 465.1  | 392.9  | 405.9  | 458.6  | 481.1  |
| 77.5° | 300.5  | 307.1  | 233.7  | 230.8  | 236.7  | 306.5  | 464.5  | 379.3  | 387.0  | 421.9  | 446.7  |
| 80°   | 201.2  | 249.1  | 212.5  | 213.0  | 217.2  | 280.5  | 417.2  | 358.0  | 363.9  | 398.8  | 424.2  |
| 82.5° | 127.3  | 147.3  | 192.9  | 203.0  | 197.6  | 231.4  | 354.5  | 326.0  | 334.3  | 456.2  | 482.2  |
| 85°   | 64.5   | 92.3   | 167.5  | 195.3  | 178.1  | 162.1  | 287.6  | 285.8  | 289.9  | 329.0  | 343.8  |
| 87.5° | 29.6   | 50.8   | 130.7  | 170.4  | 134.3  | 101.2  | 208.9  | 211.9  | 228.4  | 233.7  | 233.7  |
| 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)