

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: P192062

Luminaire Tested: **GAN-AF-04-LED-U-SL4-7050-1200-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192062  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-04-LED-U-SL4-7050-1200-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25029 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G4

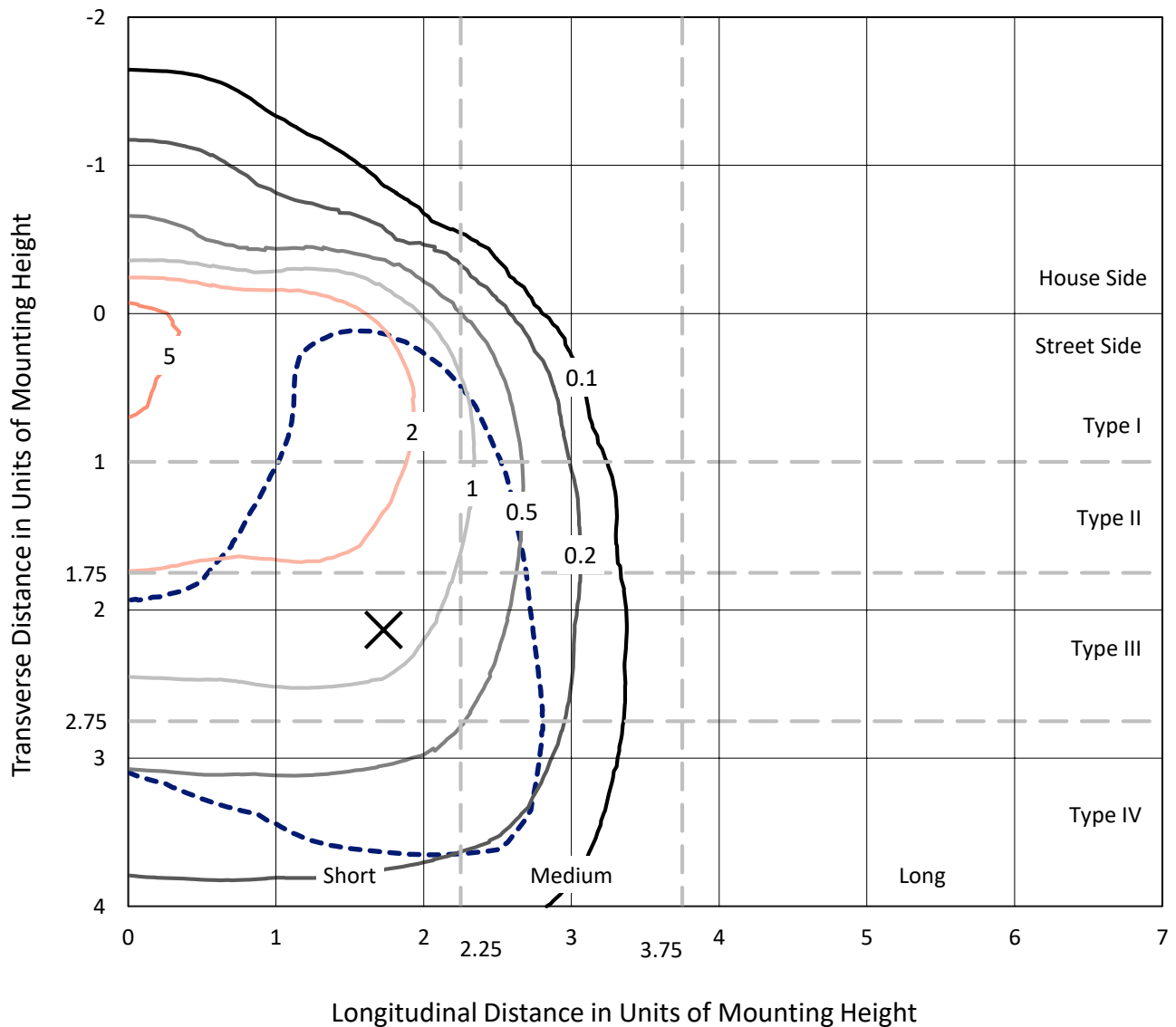
Input Watts (W): 258  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

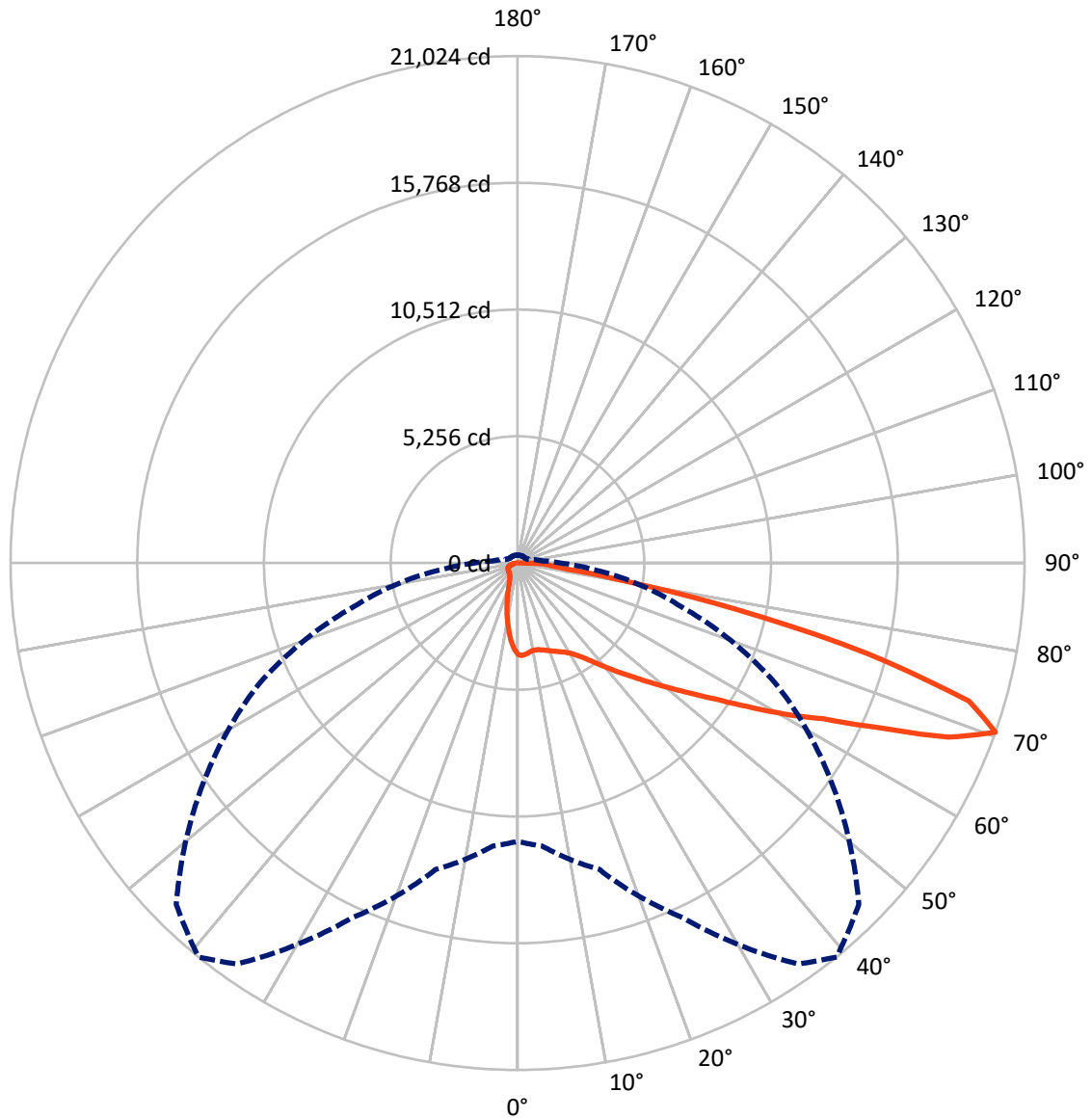


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2846.6   | 0.0    | 2846.6  |
|                    | % Fixture | 11.4     | 0.0    | 11.4    |
| <b>Street Side</b> | Lumens    | 22182.3  | 0.0    | 22182.3 |
|                    | % Fixture | 88.6     | 0.0    | 88.6    |
| <b>Total</b>       | Lumens    | 25029.0  | 0.0    | 25029.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 326.1   | 1.3       |
| 10°-20°   | 815.1   | 3.3       |
| 20°-30°   | 1269.2  | 5.1       |
| 30°-40°   | 1977.1  | 7.9       |
| 40°-50°   | 3319.2  | 13.3      |
| 50°-60°   | 5272.9  | 21.1      |
| 60°-70°   | 7033.4  | 28.1      |
| 70°-80°   | 4247.3  | 17.0      |
| 80°-90°   | 768.7   | 3.1       |
| 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°    | 25029.0 | 100.0     |
| 0°-180°   | 25029.0 | 100.0     |



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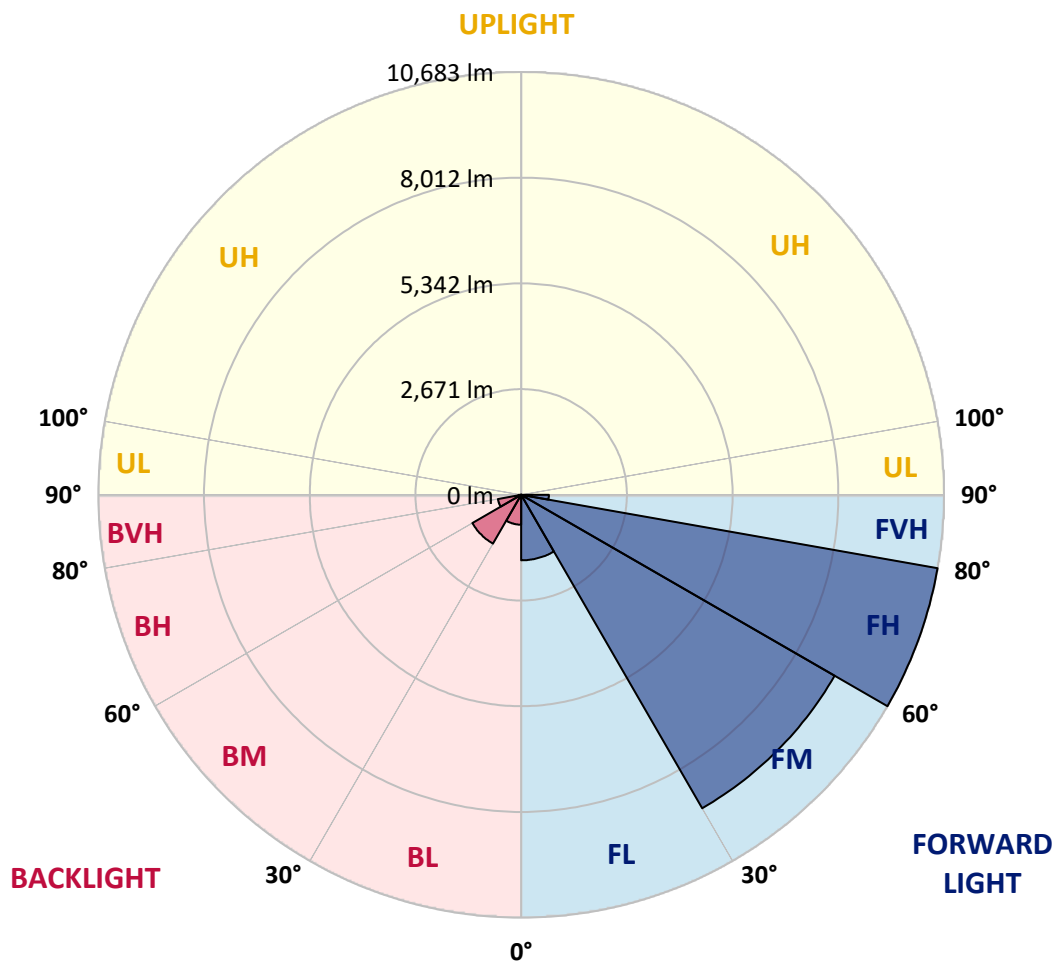
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1655.2  | 6.6       |                         |      |          |
| FM   | (30°-60°)   | 9144.6  | 36.5      |                         |      |          |
| FH   | (60°-80°)   | 10683.1 | 42.7      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 699.4   | 2.8       |                         |      | G4/750   |
| BL   | (0°-30°)    | 755.2   | 3.0       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 1424.6  | 5.7       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 597.6   | 2.4       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 69.3    | 0.3       |                         |      | G1/100   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 39°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 3799.8  | 3799.8  | 3799.8  | 3799.8  | 3799.8  | 3799.8  | 3799.8  | 3799.8  | 3799.8  | 3799.8  | 3799.8  |
| 2.5°  | 3873.6  | 3872.3  | 3862.1  | 3854.5  | 3848.1  | 3845.6  | 3850.7  | 3831.6  | 3815.1  | 3794.7  | 3773.1  |
| 5°    | 3844.3  | 3843.1  | 3826.5  | 3811.2  | 3796.0  | 3790.9  | 3789.6  | 3755.3  | 3734.9  | 3704.3  | 3663.6  |
| 7.5°  | 3812.5  | 3806.2  | 3784.5  | 3759.1  | 3732.3  | 3719.6  | 3706.9  | 3662.4  | 3639.5  | 3608.9  | 3561.8  |
| 10°   | 3779.4  | 3771.8  | 3751.4  | 3726.0  | 3700.5  | 3681.4  | 3659.8  | 3616.5  | 3592.4  | 3569.5  | 3514.7  |
| 12.5° | 3745.1  | 3738.7  | 3733.6  | 3722.2  | 3704.3  | 3687.8  | 3671.3  | 3634.4  | 3608.9  | 3582.2  | 3518.6  |
| 15°   | 3740.0  | 3737.4  | 3748.9  | 3756.5  | 3746.3  | 3736.2  | 3718.3  | 3686.5  | 3659.8  | 3633.1  | 3550.4  |
| 17.5° | 3780.7  | 3779.4  | 3808.7  | 3829.1  | 3824.0  | 3806.2  | 3782.0  | 3746.3  | 3724.7  | 3701.8  | 3598.7  |
| 20°   | 3869.8  | 3876.1  | 3911.8  | 3938.5  | 3913.0  | 3887.6  | 3848.1  | 3798.5  | 3787.1  | 3776.9  | 3648.4  |
| 22.5° | 4037.8  | 4044.1  | 4069.6  | 4079.7  | 4013.6  | 3976.7  | 3922.0  | 3858.3  | 3850.7  | 3858.3  | 3708.2  |
| 25°   | 4299.9  | 4293.5  | 4289.7  | 4251.5  | 4130.6  | 4073.4  | 4003.4  | 3937.2  | 3941.0  | 3975.4  | 3792.2  |
| 27.5° | 4647.3  | 4612.9  | 4559.5  | 4445.0  | 4252.8  | 4189.2  | 4103.9  | 4042.8  | 4067.0  | 4133.2  | 3918.1  |
| 30°   | 5007.4  | 4969.2  | 4845.8  | 4658.8  | 4413.2  | 4343.2  | 4247.7  | 4179.0  | 4242.6  | 4347.0  | 4086.1  |
| 32.5° | 5340.8  | 5335.7  | 5155.0  | 4914.5  | 4634.6  | 4573.5  | 4478.1  | 4400.4  | 4503.5  | 4662.6  | 4338.1  |
| 35°   | 5704.8  | 5716.2  | 5499.9  | 5211.0  | 4933.6  | 4870.0  | 4801.3  | 4742.7  | 4880.2  | 5099.0  | 4703.3  |
| 37.5° | 6094.2  | 6117.1  | 5861.3  | 5535.5  | 5274.7  | 5247.9  | 5207.2  | 5181.8  | 5394.3  | 5697.1  | 5213.6  |
| 40°   | 6614.6  | 6591.7  | 6236.7  | 5902.0  | 5693.3  | 5692.0  | 5679.3  | 5709.9  | 6063.6  | 6478.5  | 5868.9  |
| 42.5° | 7172.0  | 7104.6  | 6635.0  | 6295.2  | 6152.7  | 6196.0  | 6221.4  | 6346.1  | 6869.1  | 7427.8  | 6668.1  |
| 45°   | 7772.6  | 7621.2  | 7048.6  | 6711.4  | 6663.0  | 6754.6  | 6841.1  | 7112.2  | 7817.2  | 8508.2  | 7543.6  |
| 47.5° | 8252.4  | 8106.0  | 7476.1  | 7147.8  | 7253.5  | 7392.2  | 7558.9  | 7987.7  | 8878.5  | 9624.2  | 8407.6  |
| 50°   | 8630.3  | 8534.9  | 7907.5  | 7656.8  | 7903.7  | 8117.5  | 8389.8  | 8979.0  | 9983.0  | 10710.9 | 9208.1  |
| 52.5° | 8996.8  | 8925.6  | 8342.7  | 8178.6  | 8667.2  | 8962.5  | 9332.8  | 10042.8 | 11115.6 | 11779.9 | 9881.2  |
| 55°   | 9327.7  | 9276.8  | 8811.0  | 8828.8  | 9565.6  | 9950.0  | 10415.7 | 11254.3 | 12350.0 | 12733.0 | 10451.3 |
| 57.5° | 9700.5  | 9635.6  | 9345.5  | 9644.5  | 10719.8 | 11218.7 | 11824.4 | 12615.9 | 13508.0 | 13580.5 | 10885.3 |
| 60°   | 10075.9 | 10019.9 | 9938.5  | 10586.2 | 12185.8 | 12710.1 | 13284.0 | 13935.5 | 14682.5 | 14238.4 | 10859.8 |
| 62.5° | 10401.7 | 10408.1 | 10551.9 | 11575.0 | 13621.2 | 14228.2 | 14928.1 | 15572.0 | 15745.1 | 14352.9 | 10056.8 |
| 65°   | 10954.0 | 11054.5 | 11483.4 | 12974.8 | 15642.0 | 16453.9 | 17312.8 | 17209.8 | 16039.0 | 13282.7 | 8335.1  |
| 67.5° | 11610.6 | 11787.5 | 12656.6 | 14840.3 | 18196.0 | 19273.8 | 19605.9 | 17580.1 | 14861.9 | 10797.5 | 5941.5  |
| 70°   | 11544.4 | 11787.5 | 13163.1 | 16231.2 | 20300.8 | 21023.6 | 20015.7 | 15910.5 | 11801.5 | 7053.7  | 3155.9  |
| 72.5° | 10251.5 | 10598.9 | 12131.1 | 15593.6 | 19637.8 | 19574.1 | 17376.5 | 11861.3 | 7011.7  | 2832.7  | 1233.1  |
| 75°   | 7813.4  | 8164.6  | 9482.9  | 12319.4 | 15521.1 | 14986.6 | 12329.6 | 6552.3  | 2660.9  | 1124.9  | 777.5   |
| 77.5° | 4494.6  | 4766.9  | 5784.9  | 7555.0  | 9846.9  | 9298.4  | 6862.8  | 2914.1  | 1295.4  | 783.9   | 607.0   |
| 80°   | 2509.4  | 2660.9  | 3279.3  | 3832.9  | 4825.5  | 4423.3  | 3070.6  | 1810.8  | 967.1   | 568.8   | 468.3   |
| 82.5° | 1983.9  | 2118.8  | 2652.0  | 2417.8  | 2204.0  | 2033.5  | 1763.7  | 1612.3  | 772.4   | 358.9   | 280.0   |
| 85°   | 1733.2  | 1861.7  | 2244.8  | 1903.7  | 1505.4  | 1380.7  | 1432.9  | 1586.9  | 600.6   | 216.3   | 239.2   |
| 87.5° | 1605.9  | 1777.7  | 2000.4  | 1467.2  | 1172.0  | 1038.4  | 1322.2  | 1739.6  | 193.4   | 134.9   | 96.7    |
| 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°    | 3799.8 | 3799.8 | 3799.8 | 3799.8 | 3799.8 | 3799.8 | 3799.8 | 3799.8 | 3799.8 | 3799.8 | 3799.8 |
| 2.5°  | 3754.0 | 3733.6 | 3700.5 | 3671.3 | 3625.5 | 3601.3 | 3574.6 | 3555.5 | 3540.2 | 3527.5 | 3547.8 |
| 5°    | 3638.2 | 3600.0 | 3530.0 | 3454.9 | 3365.9 | 3295.9 | 3237.3 | 3182.6 | 3144.4 | 3119.0 | 3136.8 |
| 7.5°  | 3528.7 | 3466.4 | 3356.9 | 3220.8 | 3068.1 | 2938.3 | 2831.4 | 2737.2 | 2672.3 | 2630.3 | 2646.9 |
| 10°   | 3466.4 | 3388.8 | 3219.5 | 3005.7 | 2780.5 | 2578.2 | 2410.2 | 2265.1 | 2164.6 | 2107.3 | 2116.2 |
| 12.5° | 3451.1 | 3350.6 | 3116.4 | 2822.5 | 2514.5 | 2233.3 | 1996.6 | 1795.5 | 1654.3 | 1580.5 | 1583.0 |
| 15°   | 3462.6 | 3334.0 | 3019.7 | 2646.9 | 2257.5 | 1902.4 | 1607.2 | 1362.9 | 1198.7 | 1114.7 | 1113.5 |
| 17.5° | 3481.7 | 3321.3 | 2917.9 | 2457.3 | 1996.6 | 1584.3 | 1254.7 | 1015.5 | 870.4  | 803.0  | 797.9  |
| 20°   | 3502.0 | 3301.0 | 2803.4 | 2252.4 | 1725.6 | 1289.1 | 982.4  | 795.3  | 703.7  | 666.8  | 664.3  |
| 22.5° | 3531.3 | 3283.1 | 2685.0 | 2036.1 | 1459.6 | 1049.8 | 808.1  | 682.1  | 633.7  | 614.6  | 612.1  |
| 25°   | 3578.4 | 3274.2 | 2559.1 | 1810.8 | 1220.4 | 878.0  | 703.7  | 626.1  | 598.1  | 585.4  | 584.1  |
| 27.5° | 3657.3 | 3287.0 | 2440.7 | 1591.9 | 1025.7 | 762.2  | 645.2  | 598.1  | 577.7  | 566.3  | 565.0  |
| 30°   | 3759.1 | 3326.4 | 2316.0 | 1384.5 | 874.2  | 683.4  | 609.5  | 579.0  | 562.5  | 551.0  | 551.0  |
| 32.5° | 3928.3 | 3392.6 | 2184.9 | 1205.1 | 766.1  | 628.6  | 582.8  | 562.5  | 548.5  | 539.6  | 538.3  |
| 35°   | 4177.7 | 3517.3 | 2062.8 | 1056.2 | 688.4  | 589.2  | 559.9  | 544.6  | 534.5  | 529.4  | 529.4  |
| 37.5° | 4540.4 | 3714.5 | 1954.6 | 949.3  | 641.4  | 562.5  | 538.3  | 526.8  | 520.5  | 520.5  | 520.5  |
| 40°   | 5027.8 | 3986.9 | 1866.8 | 878.0  | 614.6  | 543.4  | 521.7  | 512.8  | 509.0  | 510.3  | 510.3  |
| 42.5° | 5629.7 | 4340.6 | 1808.3 | 828.4  | 601.9  | 531.9  | 510.3  | 502.7  | 498.8  | 497.6  | 498.8  |
| 45°   | 6315.6 | 4742.7 | 1801.9 | 791.5  | 589.2  | 524.3  | 502.7  | 495.0  | 487.4  | 482.3  | 482.3  |
| 47.5° | 6982.4 | 5151.2 | 1854.1 | 778.8  | 575.2  | 515.4  | 496.3  | 488.7  | 477.2  | 465.7  | 465.7  |
| 50°   | 7571.6 | 5498.6 | 1924.1 | 783.9  | 570.1  | 502.7  | 486.1  | 482.3  | 464.5  | 451.7  | 450.5  |
| 52.5° | 8039.9 | 5765.9 | 1981.3 | 799.2  | 575.2  | 493.7  | 473.4  | 474.7  | 455.6  | 441.6  | 440.3  |
| 55°   | 8415.3 | 5941.5 | 1966.1 | 814.4  | 586.6  | 488.7  | 461.9  | 464.5  | 449.2  | 435.2  | 435.2  |
| 57.5° | 8579.4 | 5876.6 | 1796.8 | 801.7  | 595.5  | 489.9  | 453.0  | 463.2  | 450.5  | 437.8  | 437.8  |
| 60°   | 8226.9 | 5300.1 | 1480.0 | 745.7  | 584.1  | 486.1  | 449.2  | 468.3  | 467.0  | 454.3  | 453.0  |
| 62.5° | 7160.6 | 4268.1 | 1147.8 | 663.0  | 544.6  | 467.0  | 439.0  | 467.0  | 481.0  | 477.2  | 475.9  |
| 65°   | 5519.0 | 3040.1 | 876.8  | 573.9  | 491.2  | 435.2  | 412.3  | 437.8  | 456.8  | 461.9  | 460.7  |
| 67.5° | 3582.2 | 1863.0 | 675.7  | 489.9  | 431.4  | 398.3  | 377.9  | 389.4  | 393.2  | 393.2  | 390.7  |
| 70°   | 1761.2 | 1002.8 | 538.3  | 412.3  | 370.3  | 358.9  | 347.4  | 341.0  | 334.7  | 329.6  | 329.6  |
| 72.5° | 869.1  | 655.4  | 442.8  | 348.7  | 319.4  | 314.3  | 311.8  | 304.1  | 299.0  | 292.7  | 290.1  |
| 75°   | 642.6  | 533.2  | 376.7  | 294.0  | 274.9  | 269.8  | 274.9  | 268.5  | 267.2  | 262.1  | 259.6  |
| 77.5° | 528.1  | 454.3  | 324.5  | 252.0  | 235.4  | 226.5  | 234.1  | 235.4  | 236.7  | 229.1  | 226.5  |
| 80°   | 428.8  | 384.3  | 271.0  | 208.7  | 193.4  | 187.1  | 192.2  | 202.3  | 204.9  | 193.4  | 188.3  |
| 82.5° | 309.2  | 314.3  | 218.9  | 162.9  | 150.2  | 145.1  | 155.2  | 168.0  | 170.5  | 154.0  | 150.2  |
| 85°   | 259.6  | 262.1  | 168.0  | 115.8  | 103.1  | 95.4   | 112.0  | 124.7  | 133.6  | 117.1  | 113.3  |
| 87.5° | 108.2  | 154.0  | 96.7   | 64.9   | 57.3   | 49.6   | 59.8   | 66.2   | 80.2   | 73.8   | 72.5   |
| 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)