

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: P654316

Luminaire Tested: **GLAN-SA4B-840-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P654316  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4B-840-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18763.6 lumens  
Efficiency: N/A  
Efficacy: 114.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

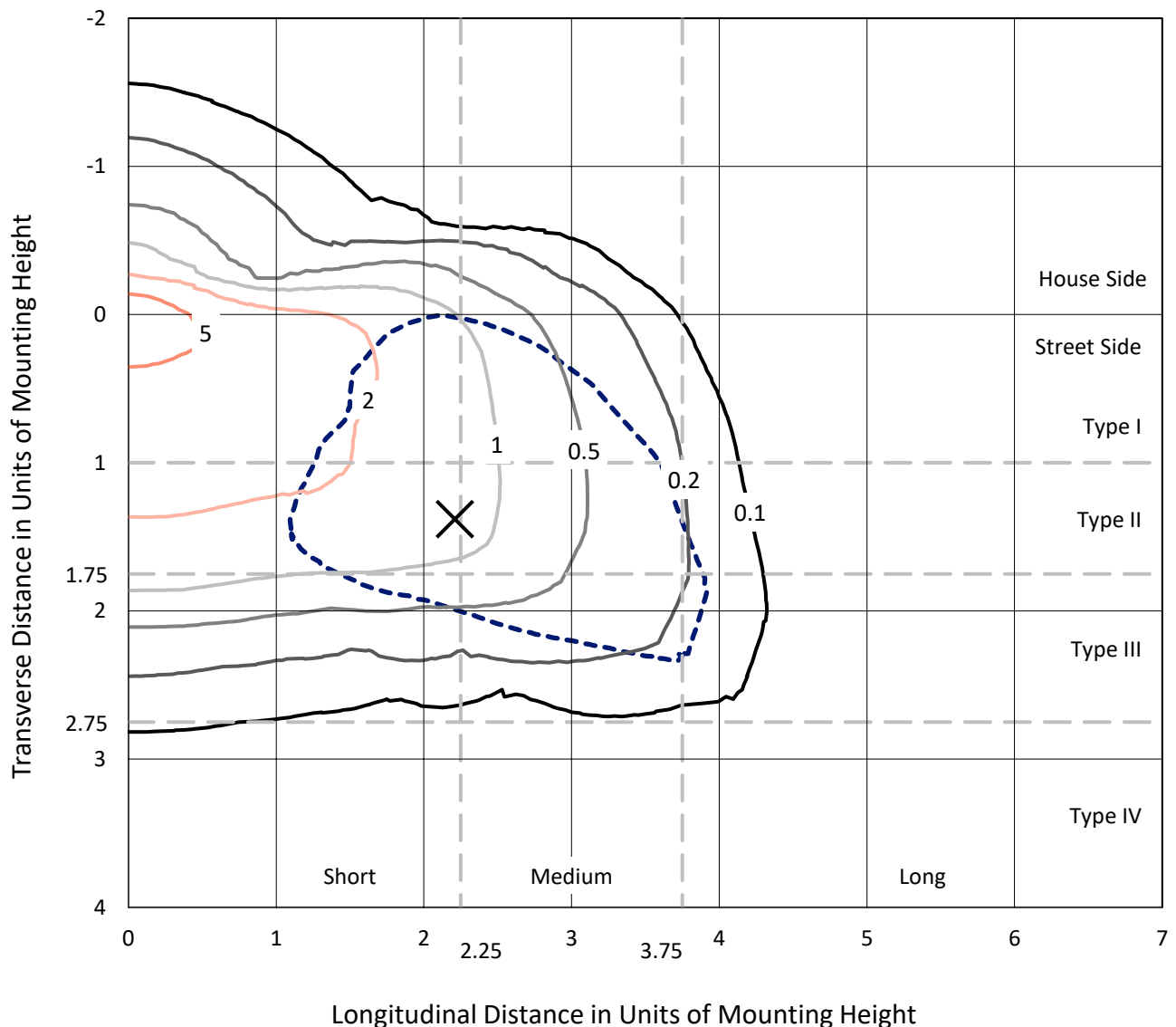
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

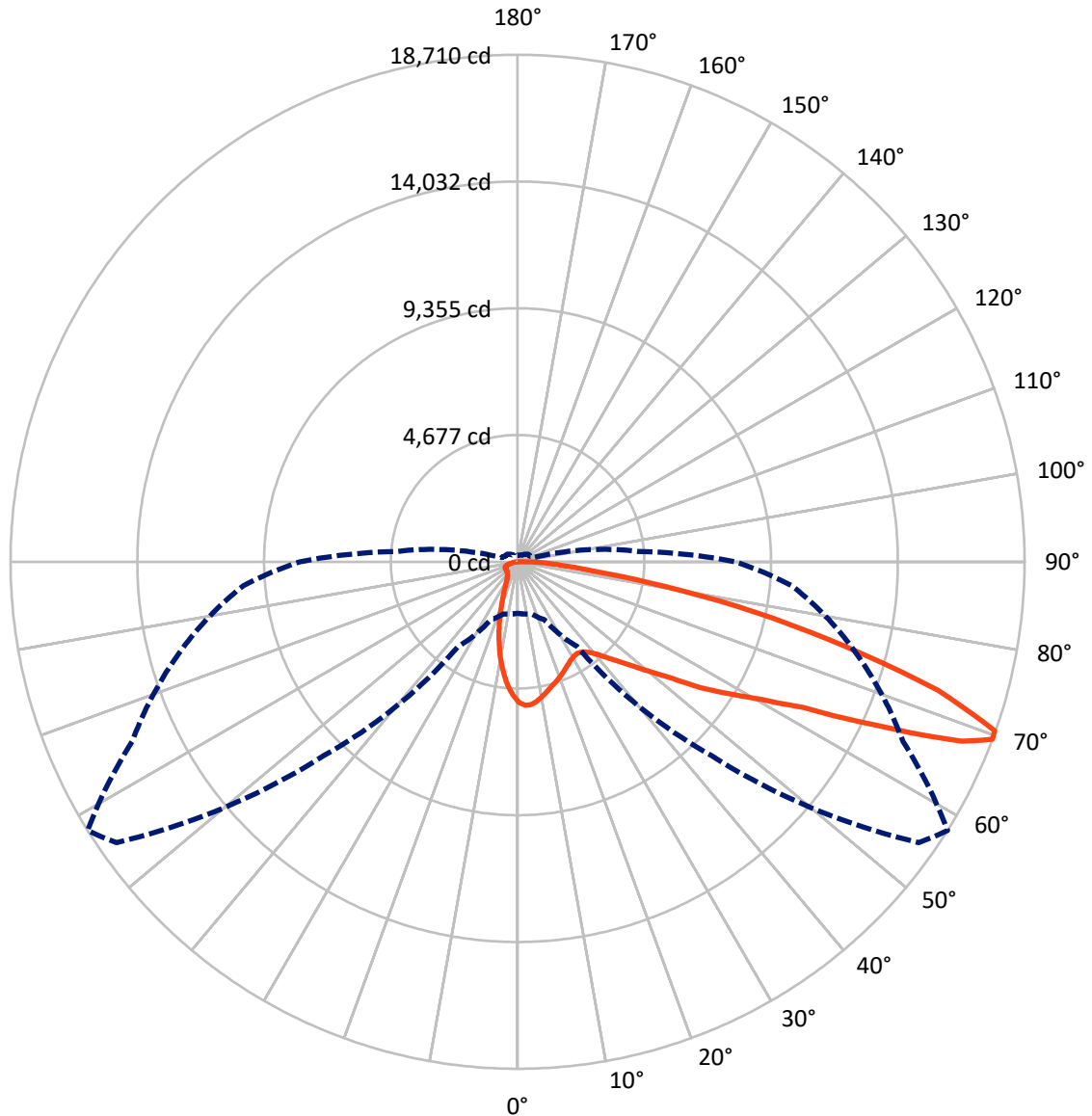
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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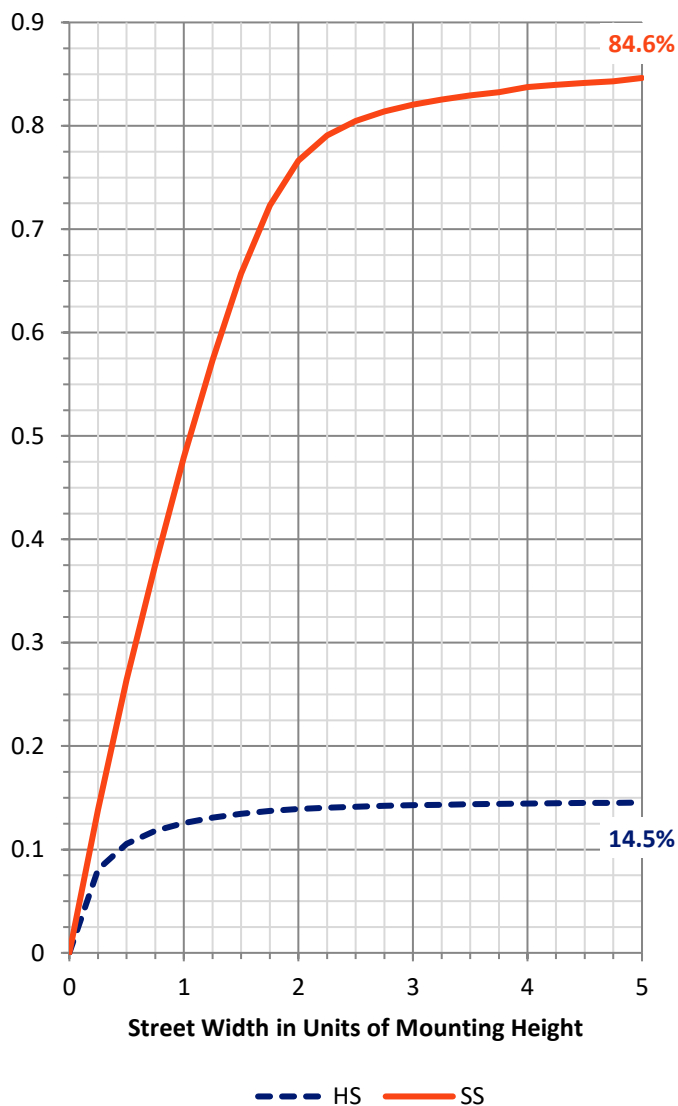
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2749.8   | 0.0    | 2749.8  |
|                    | % Fixture | 14.7     | 0.0    | 14.7    |
| <b>Street Side</b> | Lumens    | 16013.8  | 0.0    | 16013.8 |
|                    | % Fixture | 85.3     | 0.0    | 85.3    |
| <b>Total</b>       | Lumens    | 18763.6  | 0.0    | 18763.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 440.3   | 2.3       |
| 10°-20°   | 966.9   | 5.2       |
| 20°-30°   | 1249.3  | 6.7       |
| 30°-40°   | 1622.6  | 8.6       |
| 40°-50°   | 2359.0  | 12.6      |
| 50°-60°   | 3764.2  | 20.1      |
| 60°-70°   | 5028.4  | 26.8      |
| 70°-80°   | 2898.7  | 15.4      |
| 80°-90°   | 434.2   | 2.3       |
| 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°    | 18763.6 | 100.0     |
| 0°-180°   | 18763.6 | 100.0     |

**Coefficient of Utilization**



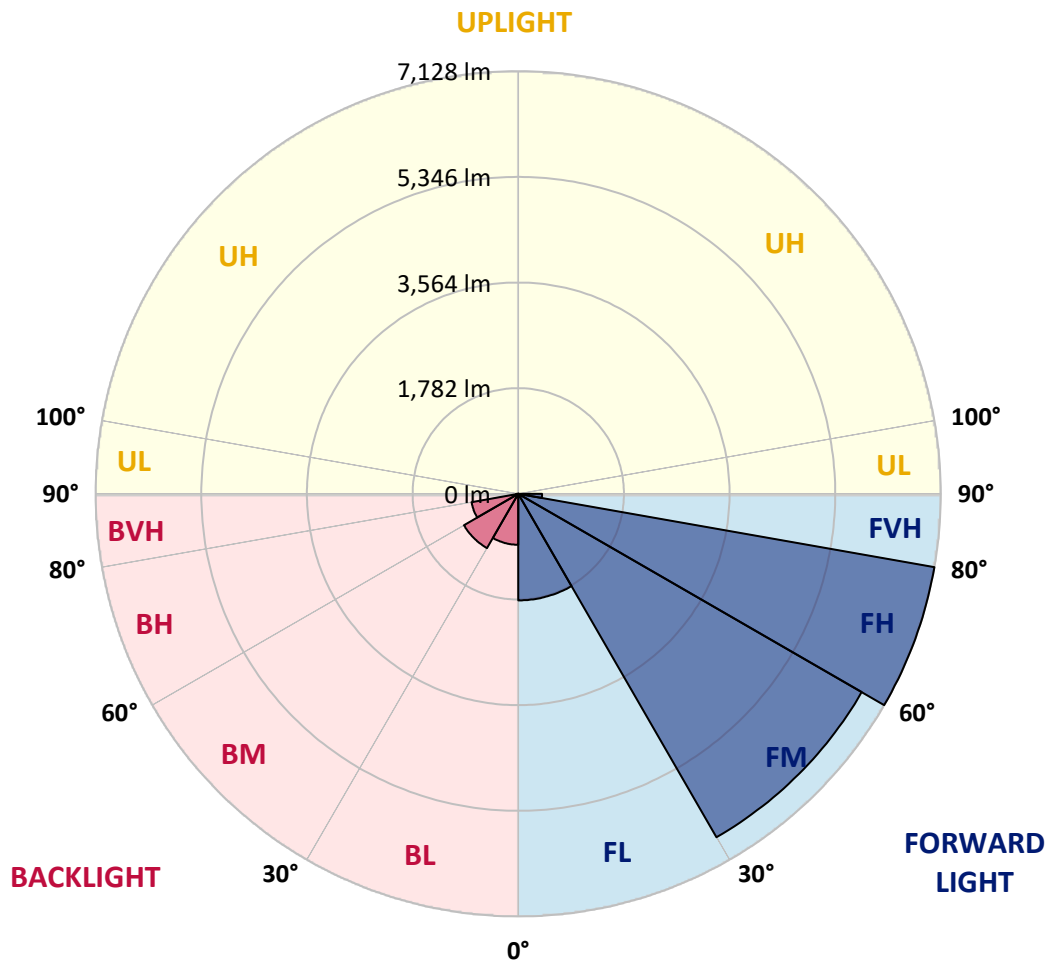
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1797.1 | 9.6       |                         |      |         |
| FM (30°-60°)   | 6688.2 | 35.6      |                         |      |         |
| FH (60°-80°)   | 7127.6 | 38.0      |                         |      | G3/7500 |
| FVH (80°-90°)  | 400.9  | 2.1       |                         |      | G3/500  |
| BL (0°-30°)    | 859.5  | 4.6       | B2/1000                 |      |         |
| BM (30°-60°)   | 1057.5 | 5.6       | B2/2500                 |      |         |
| BH (60°-80°)   | 799.6  | 4.3       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 33.3   | 0.2       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type III Short





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CATALOG NUMBER: GLAN-SA4B-840-U-SL3

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 5185.2 | 5185.2 | 5185.2 | 5185.2 | 5185.2 | 5185.2  | 5185.2  | 5185.2  | 5185.2  | 5185.2  | 5185.2  |
| 2.5°  | 5377.7 | 5392.3 | 5388.1 | 5382.9 | 5374.6 | 5351.5  | 5313.9  | 5307.6  | 5283.5  | 5232.2  | 5168.4  |
| 5°    | 5295.0 | 5307.6 | 5308.6 | 5316.0 | 5326.4 | 5322.3  | 5295.0  | 5291.9  | 5256.3  | 5187.2  | 5080.5  |
| 7.5°  | 5011.4 | 5028.2 | 5064.8 | 5105.6 | 5142.2 | 5176.8  | 5185.2  | 5190.4  | 5168.4  | 5088.9  | 4946.6  |
| 10°   | 4692.3 | 4709.0 | 4725.7 | 4786.5 | 4876.5 | 4962.2  | 5033.4  | 5042.8  | 5048.1  | 4974.9  | 4801.1  |
| 12.5° | 4338.6 | 4373.1 | 4408.7 | 4498.7 | 4619.0 | 4754.0  | 4879.6  | 4899.5  | 4935.1  | 4879.6  | 4675.5  |
| 15°   | 4038.2 | 4073.8 | 4125.1 | 4205.7 | 4351.2 | 4545.8  | 4722.6  | 4755.1  | 4825.2  | 4796.9  | 4558.3  |
| 17.5° | 3830.0 | 3842.5 | 3878.1 | 3970.2 | 4127.2 | 4332.3  | 4568.8  | 4633.7  | 4745.7  | 4738.3  | 4457.9  |
| 20°   | 3665.7 | 3681.4 | 3703.3 | 3759.9 | 3923.1 | 4139.7  | 4425.4  | 4509.1  | 4660.9  | 4686.0  | 4358.5  |
| 22.5° | 3596.6 | 3608.1 | 3605.0 | 3635.4 | 3746.3 | 3964.0  | 4279.9  | 4379.4  | 4585.6  | 4650.4  | 4266.4  |
| 25°   | 3600.8 | 3611.3 | 3595.6 | 3588.3 | 3654.2 | 3809.1  | 4128.2  | 4254.9  | 4524.8  | 4626.3  | 4182.6  |
| 27.5° | 3671.0 | 3678.3 | 3648.9 | 3619.7 | 3624.9 | 3712.8  | 4002.7  | 4142.9  | 4473.5  | 4636.8  | 4112.6  |
| 30°   | 3765.2 | 3778.7 | 3759.9 | 3724.3 | 3685.6 | 3689.8  | 3922.1  | 4060.2  | 4449.5  | 4673.4  | 4079.0  |
| 32.5° | 3886.5 | 3899.0 | 3890.7 | 3862.5 | 3812.2 | 3756.7  | 3902.2  | 4029.9  | 4451.6  | 4747.7  | 4071.7  |
| 35°   | 4014.2 | 4039.3 | 4052.9 | 4050.8 | 4010.0 | 3913.7  | 3980.7  | 4086.4  | 4501.8  | 4872.2  | 4114.6  |
| 37.5° | 4158.6 | 4179.5 | 4238.1 | 4275.8 | 4238.1 | 4126.1  | 4157.6  | 4230.8  | 4612.7  | 5052.2  | 4208.8  |
| 40°   | 4298.8 | 4330.2 | 4416.0 | 4533.2 | 4518.5 | 4420.2  | 4427.5  | 4475.6  | 4808.4  | 5320.2  | 4393.0  |
| 42.5° | 4445.3 | 4483.0 | 4632.6 | 4806.3 | 4840.9 | 4764.4  | 4784.4  | 4827.3  | 5086.8  | 5691.6  | 4709.0  |
| 45°   | 4633.7 | 4678.7 | 4862.8 | 5079.5 | 5215.5 | 5168.4  | 5224.9  | 5245.8  | 5459.4  | 6175.1  | 5125.5  |
| 47.5° | 4876.5 | 4928.8 | 5155.8 | 5425.8 | 5618.4 | 5661.3  | 5759.7  | 5747.1  | 5920.8  | 6747.5  | 5665.5  |
| 50°   | 5285.6 | 5314.9 | 5529.4 | 5804.7 | 6069.4 | 6263.0  | 6369.7  | 6389.6  | 6493.2  | 7304.2  | 6269.2  |
| 52.5° | 5772.2 | 5798.4 | 5953.3 | 6193.9 | 6525.7 | 6935.9  | 7199.5  | 7134.7  | 7159.8  | 7982.3  | 6975.6  |
| 55°   | 6319.5 | 6363.4 | 6461.8 | 6621.9 | 7052.0 | 7655.8  | 8185.3  | 8201.0  | 7922.6  | 8631.1  | 7652.7  |
| 57.5° | 6743.3 | 6817.6 | 6986.1 | 7214.2 | 7759.4 | 8456.3  | 9167.9  | 9178.4  | 8822.6  | 9323.8  | 8399.8  |
| 60°   | 6529.9 | 6617.7 | 7002.8 | 7558.5 | 8687.6 | 9853.3  | 10342.0 | 10282.4 | 9698.5  | 10112.9 | 9311.3  |
| 62.5° | 5609.0 | 5624.7 | 6184.5 | 7053.0 | 8973.3 | 11722.3 | 12089.6 | 11837.4 | 10867.3 | 11113.3 | 10237.4 |
| 65°   | 3630.1 | 3732.7 | 4176.4 | 5393.4 | 8034.7 | 12759.3 | 15151.5 | 14568.6 | 12506.1 | 12248.7 | 11012.8 |
| 67.5° | 2291.7 | 2265.6 | 2449.7 | 3079.7 | 5526.3 | 11845.8 | 17764.5 | 17672.4 | 14649.2 | 12965.4 | 10827.6 |
| 69°   | 1900.3 | 1929.7 | 1992.4 | 2360.8 | 3802.7 | 10114.0 | 18073.2 | 18709.5 | 15688.4 | 12909.0 | 10154.7 |
| 70°   | 1723.5 | 1737.1 | 1803.0 | 2092.9 | 2934.2 | 8471.0  | 17566.7 | 18681.2 | 16096.5 | 12672.4 | 9667.0  |
| 72.5° | 1367.7 | 1366.6 | 1479.7 | 1741.3 | 2193.3 | 4835.7  | 14424.2 | 16218.9 | 15640.2 | 11571.7 | 7987.6  |
| 75°   | 1039.1 | 1055.9 | 1180.4 | 1473.4 | 2020.7 | 2642.3  | 10065.8 | 12490.4 | 12491.5 | 9139.7  | 4984.3  |
| 77.5° | 749.2  | 759.8  | 905.2  | 1236.9 | 1903.5 | 2142.1  | 6704.6  | 8958.7  | 8421.8  | 4187.8  | 1566.5  |
| 80°   | 490.8  | 497.0  | 608.0  | 979.5  | 1716.1 | 2020.7  | 3975.5  | 5483.4  | 3972.3  | 1111.3  | 518.0   |
| 82.5° | 269.0  | 300.3  | 371.5  | 634.1  | 1377.1 | 1866.9  | 2416.3  | 2775.2  | 1490.2  | 494.9   | 270.0   |
| 85°   | 135.0  | 143.4  | 209.3  | 370.5  | 900.0  | 1544.6  | 1682.7  | 1591.7  | 769.2   | 245.9   | 140.2   |
| 87.5° | 39.8   | 50.2   | 86.9   | 143.4  | 365.2  | 804.8   | 936.5   | 840.3   | 296.1   | 89.0    | 29.3    |
| 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°    | 5185.2 | 5185.2 | 5185.2 | 5185.2 | 5185.2 | 5185.2 | 5185.2 | 5185.2 | 5185.2 | 5185.2 | 5185.2 |
| 2.5°  | 5142.2 | 5123.4 | 5039.7 | 4964.3 | 4895.3 | 4822.0 | 4760.3 | 4705.9 | 4711.1 | 4712.1 | 4656.7 |
| 5°    | 5025.1 | 4982.2 | 4823.1 | 4674.4 | 4548.9 | 4389.9 | 4253.8 | 4165.9 | 4122.0 | 4063.4 | 4084.3 |
| 7.5°  | 4865.9 | 4783.3 | 4562.5 | 4315.5 | 4084.3 | 3878.1 | 3654.2 | 3500.3 | 3402.0 | 3306.8 | 3319.3 |
| 10°   | 4701.7 | 4568.8 | 4247.6 | 3921.1 | 3621.8 | 3292.1 | 3006.4 | 2761.6 | 2579.5 | 2511.5 | 2466.5 |
| 12.5° | 4533.2 | 4358.5 | 3950.3 | 3516.1 | 3102.7 | 2708.2 | 2303.2 | 2040.6 | 1839.7 | 1732.9 | 1746.5 |
| 15°   | 4379.4 | 4167.0 | 3640.6 | 3111.1 | 2574.3 | 2104.4 | 1700.5 | 1450.4 | 1310.2 | 1280.8 | 1297.6 |
| 17.5° | 4237.0 | 3958.7 | 3350.7 | 2717.6 | 2090.8 | 1578.1 | 1277.7 | 1136.4 | 1079.9 | 1064.2 | 1063.2 |
| 20°   | 4090.5 | 3781.9 | 3025.2 | 2296.9 | 1629.4 | 1223.3 | 1048.6 | 982.6  | 972.1  | 978.4  | 979.5  |
| 22.5° | 3941.9 | 3563.1 | 2690.4 | 1879.4 | 1297.6 | 1000.4 | 916.7  | 898.9  | 907.3  | 921.9  | 924.0  |
| 25°   | 3804.9 | 3370.6 | 2368.1 | 1513.1 | 1035.9 | 879.0  | 838.2  | 838.2  | 857.1  | 879.0  | 880.0  |
| 27.5° | 3691.9 | 3184.4 | 2046.8 | 1201.3 | 867.5  | 791.1  | 777.5  | 784.8  | 811.0  | 827.7  | 828.8  |
| 30°   | 3598.7 | 3010.6 | 1743.4 | 962.7  | 762.9  | 721.0  | 717.9  | 730.4  | 749.2  | 765.0  | 766.0  |
| 32.5° | 3528.6 | 2857.9 | 1459.8 | 808.9  | 690.6  | 667.7  | 666.6  | 676.0  | 686.5  | 690.6  | 694.8  |
| 35°   | 3501.4 | 2731.2 | 1200.3 | 711.6  | 642.5  | 627.9  | 627.9  | 626.8  | 631.0  | 633.1  | 635.2  |
| 37.5° | 3523.4 | 2633.9 | 999.4  | 648.8  | 606.9  | 596.4  | 590.2  | 583.9  | 581.8  | 581.8  | 582.9  |
| 40°   | 3616.6 | 2582.6 | 849.7  | 608.0  | 581.8  | 566.2  | 554.6  | 547.3  | 540.0  | 542.0  | 544.1  |
| 42.5° | 3814.3 | 2592.0 | 748.2  | 580.8  | 559.9  | 537.9  | 521.2  | 512.8  | 507.5  | 513.8  | 512.8  |
| 45°   | 4129.3 | 2686.2 | 683.3  | 562.0  | 537.9  | 509.6  | 493.9  | 485.6  | 485.6  | 494.9  | 498.1  |
| 47.5° | 4569.8 | 2866.2 | 648.8  | 547.3  | 521.2  | 487.6  | 472.0  | 465.7  | 467.8  | 483.5  | 484.5  |
| 50°   | 5107.7 | 3179.1 | 642.5  | 540.0  | 512.8  | 472.0  | 454.1  | 447.9  | 453.1  | 469.9  | 472.0  |
| 52.5° | 5701.1 | 3582.0 | 672.9  | 541.0  | 505.4  | 462.6  | 439.5  | 430.1  | 435.3  | 448.9  | 453.1  |
| 55°   | 6404.3 | 4086.4 | 751.3  | 545.2  | 494.9  | 457.3  | 429.1  | 408.1  | 414.4  | 423.8  | 424.9  |
| 57.5° | 7122.1 | 4722.6 | 889.4  | 546.2  | 486.6  | 447.9  | 411.2  | 384.1  | 384.1  | 390.3  | 393.5  |
| 60°   | 7999.0 | 5415.4 | 1071.6 | 547.3  | 487.6  | 434.3  | 387.2  | 356.8  | 352.6  | 355.8  | 356.8  |
| 62.5° | 8869.7 | 5995.1 | 1101.9 | 544.1  | 498.1  | 420.7  | 361.0  | 329.7  | 322.3  | 321.3  | 319.2  |
| 65°   | 9253.8 | 5887.3 | 903.1  | 529.5  | 509.6  | 412.3  | 340.1  | 303.4  | 290.9  | 286.7  | 286.7  |
| 67.5° | 8628.0 | 4980.1 | 679.1  | 509.6  | 502.3  | 403.9  | 320.3  | 281.5  | 266.8  | 258.4  | 258.4  |
| 69°   | 8039.9 | 4429.6 | 610.1  | 496.0  | 483.5  | 390.3  | 307.6  | 270.0  | 252.2  | 242.8  | 239.6  |
| 70°   | 7585.7 | 4050.8 | 580.8  | 484.5  | 465.7  | 374.7  | 298.2  | 261.6  | 241.7  | 231.3  | 229.2  |
| 72.5° | 6053.7 | 3178.1 | 508.6  | 440.5  | 396.6  | 315.0  | 264.7  | 235.5  | 216.6  | 205.1  | 201.9  |
| 75°   | 3488.9 | 1722.5 | 421.7  | 383.0  | 319.2  | 244.9  | 224.0  | 205.1  | 190.5  | 180.0  | 176.9  |
| 77.5° | 1073.6 | 665.6  | 305.5  | 302.4  | 234.4  | 189.4  | 179.0  | 171.6  | 161.1  | 149.6  | 147.5  |
| 80°   | 452.0  | 339.0  | 207.2  | 204.0  | 155.9  | 131.9  | 128.7  | 127.7  | 123.5  | 114.0  | 110.9  |
| 82.5° | 248.0  | 191.5  | 144.4  | 125.6  | 94.2   | 76.4   | 79.6   | 80.6   | 77.5   | 68.0   | 61.7   |
| 85°   | 121.4  | 104.6  | 70.1   | 56.5   | 42.9   | 27.2   | 26.2   | 31.4   | 29.3   | 20.9   | 23.0   |
| 87.5° | 24.1   | 29.3   | 18.8   | 8.4    | 4.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)