

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: P531819

Luminaire Tested: **GLAN-SA7A-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

### Test Information

Test Method: LM-79-08  
Report Number: P531819  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7A-827-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 13667 lumens  
Efficiency: N/A  
Efficacy: 63.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

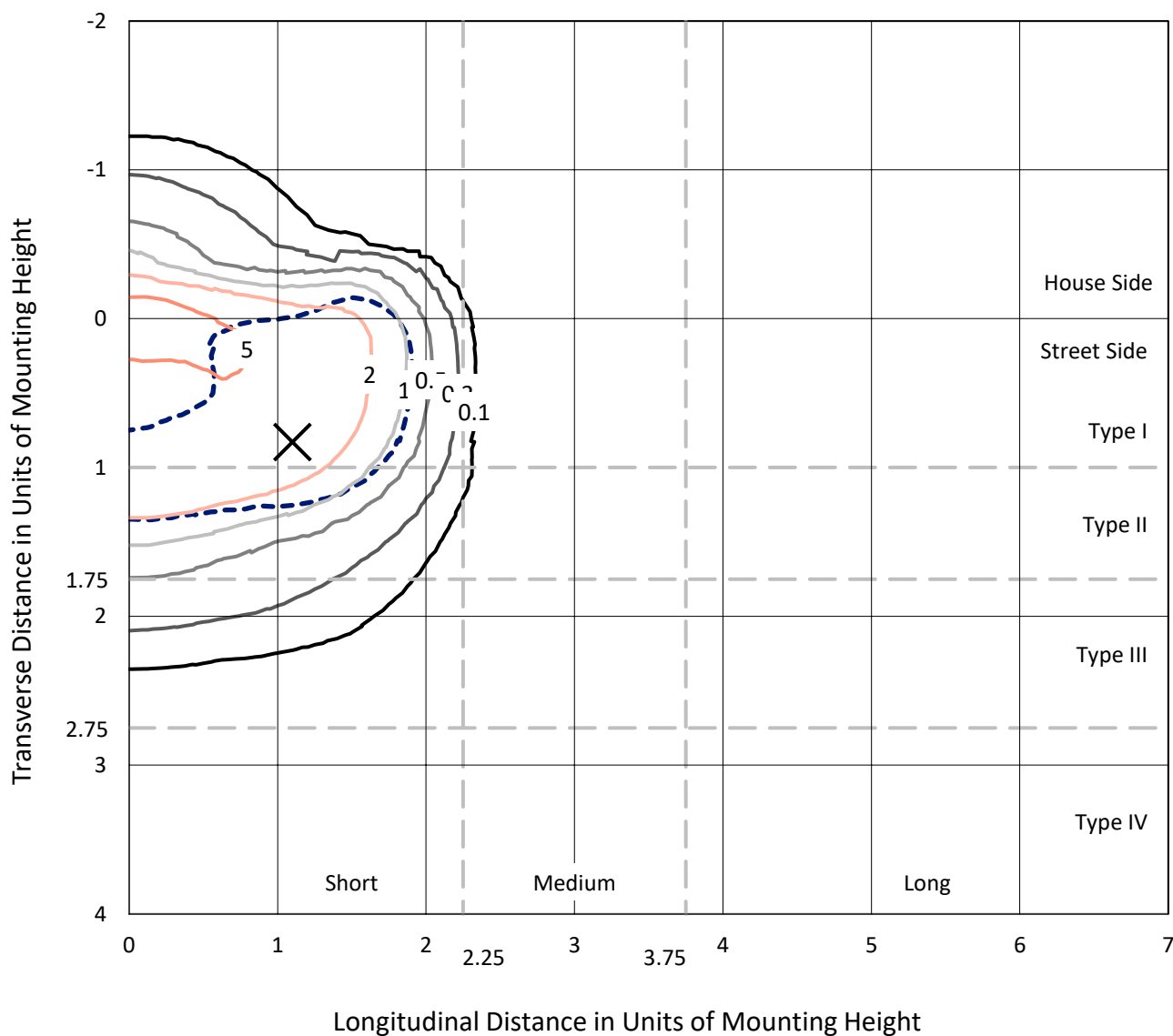
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

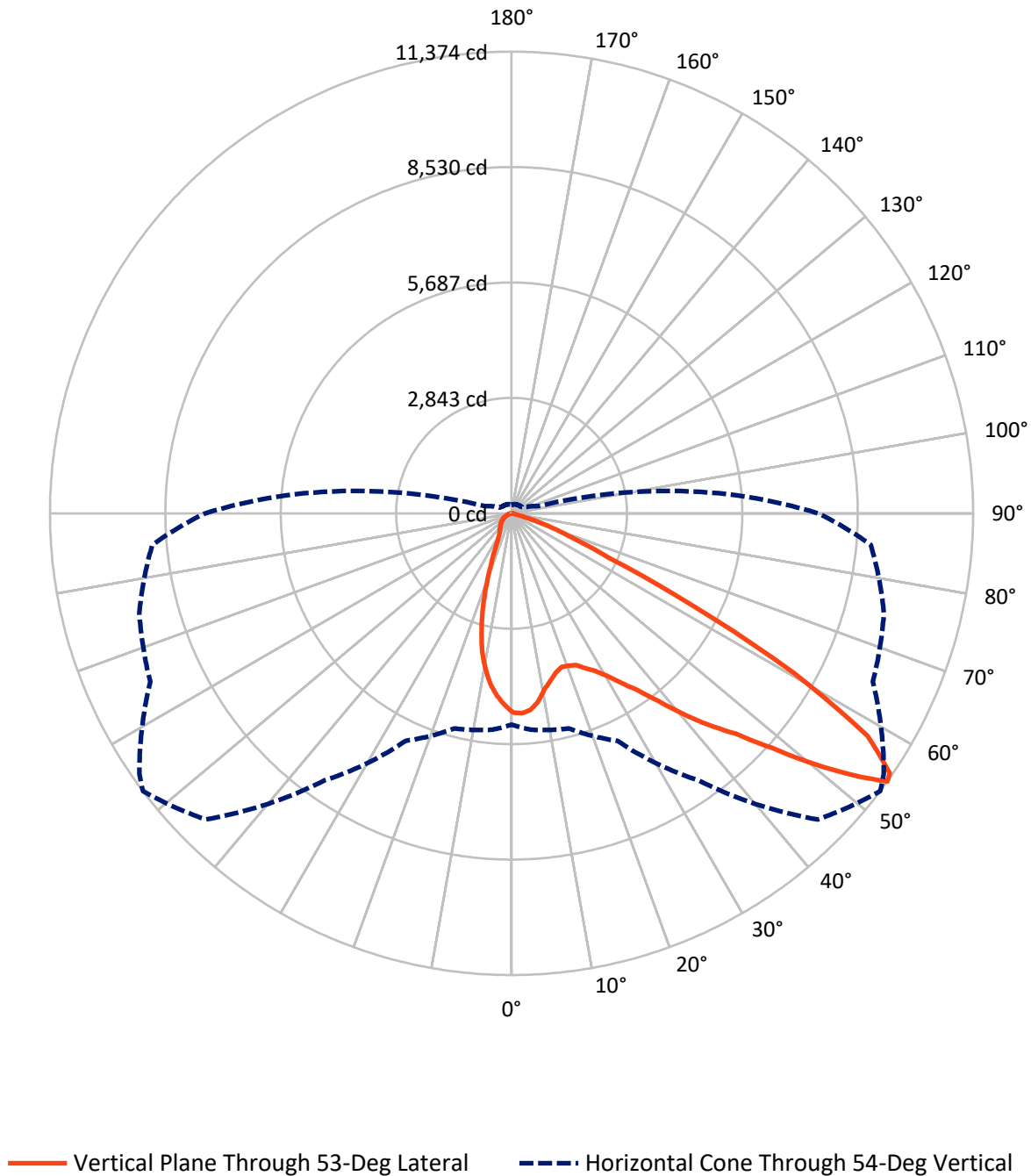
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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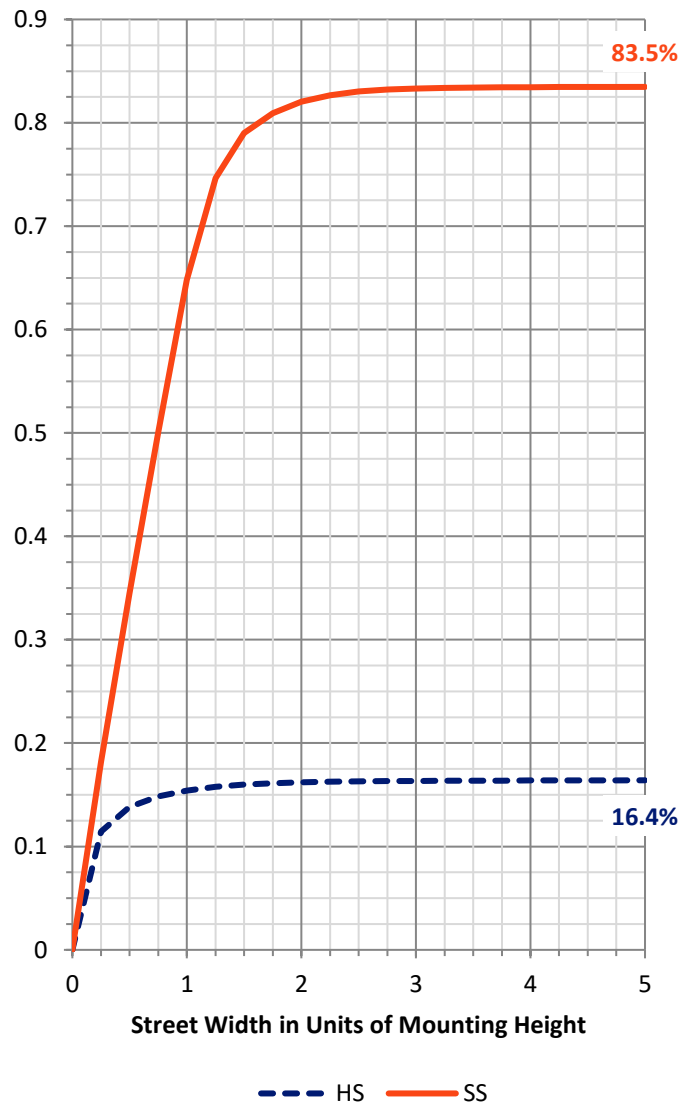
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2261.2   | 0.0    | 2261.2  |
|                    | % Fixture | 16.5     | 0.0    | 16.5    |
| <b>Street Side</b> | Lumens    | 11405.8  | 0.0    | 11405.8 |
|                    | % Fixture | 83.5     | 0.0    | 83.5    |
| <b>Total</b>       | Lumens    | 13667.0  | 0.0    | 13667.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 421.2   | 3.1       |
| 10°-20°   | 965.6   | 7.1       |
| 20°-30°   | 1372.4  | 10.0      |
| 30°-40°   | 2117.9  | 15.5      |
| 40°-50°   | 3320.7  | 24.3      |
| 50°-60°   | 3857.5  | 28.2      |
| 60°-70°   | 1457.6  | 10.7      |
| 70°-80°   | 138.6   | 1.0       |
| 80°-90°   | 15.6    | 0.1       |
| 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°    | 13667.0 | 100.0     |
| 0°-180°   | 13667.0 | 100.0     |

**Coefficient of Utilization**



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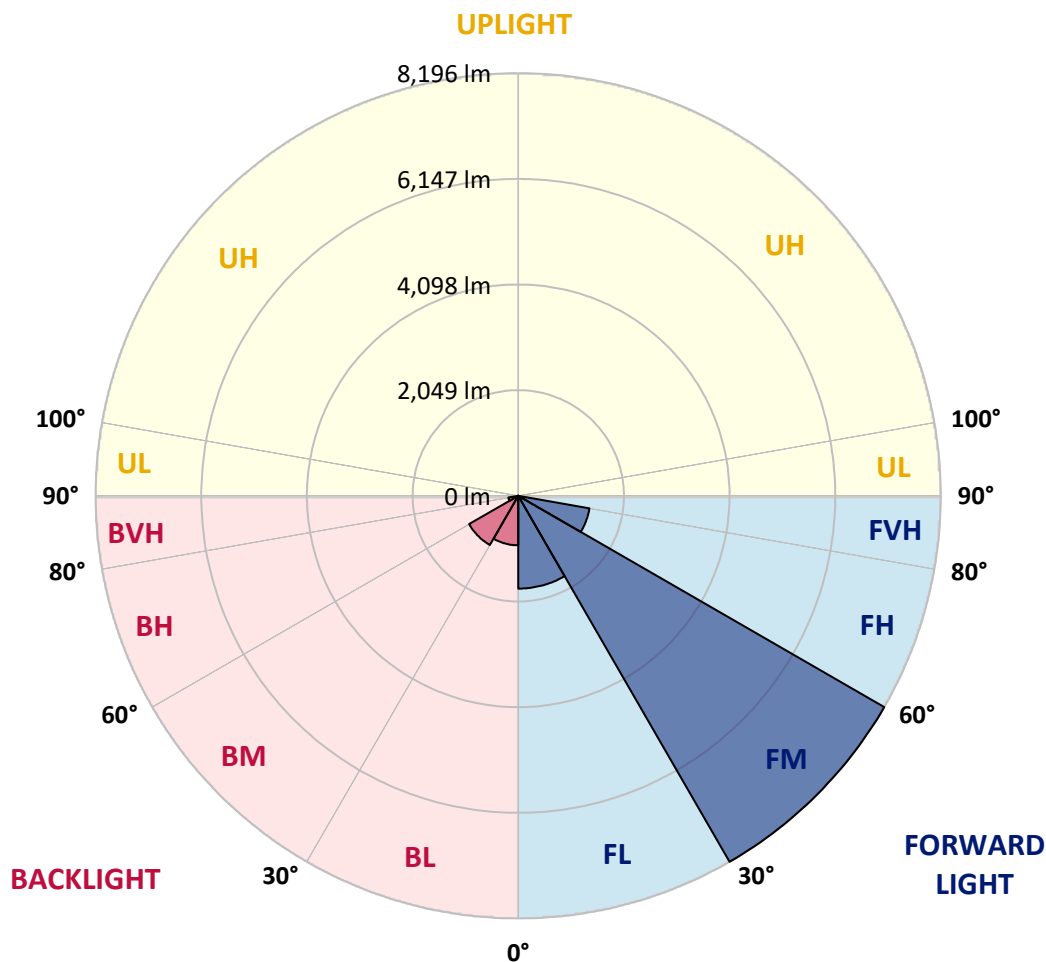
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1799.6 | 13.2      |                         |      |         |
| FM   | (30°-60°)   | 8195.7 | 60.0      |                         |      |         |
| FH   | (60°-80°)   | 1402.4 | 10.3      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 8.1    | 0.1       |                         |      | G0/10   |
| BL   | (0°-30°)    | 959.6  | 7.0       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1100.4 | 8.1       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 193.7  | 1.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 7.5    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 53°     | 55°     | 65°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| 0°    | 4909.0 | 4909.0 | 4909.0 | 4909.0 | 4909.0 | 4909.0  | 4909.0  | 4909.0  | 4909.0  | 4909.0  | 4909.0 |
| 2.5°  | 4883.5 | 4840.2 | 4883.5 | 4888.6 | 4919.1 | 4947.1  | 4929.3  | 4970.1  | 4947.1  | 4921.7  | 4914.0 |
| 5°    | 4488.8 | 4547.4 | 4550.0 | 4641.6 | 4621.2 | 4789.3  | 4863.1  | 4842.8  | 4967.5  | 4959.9  | 4942.1 |
| 7.5°  | 4134.9 | 4112.0 | 4142.6 | 4249.5 | 4384.5 | 4578.0  | 4684.9  | 4682.3  | 4860.6  | 4987.9  | 4975.2 |
| 10°   | 3806.5 | 3803.9 | 3867.6 | 3951.6 | 4066.2 | 4269.9  | 4417.6  | 4491.4  | 4768.9  | 4962.4  | 4990.4 |
| 12.5° | 3585.0 | 3574.8 | 3643.5 | 3712.3 | 3893.0 | 4050.9  | 4239.3  | 4275.0  | 4593.2  | 4873.3  | 4919.1 |
| 15°   | 3439.8 | 3462.7 | 3467.8 | 3600.2 | 3714.8 | 3923.6  | 4071.3  | 4145.1  | 4511.8  | 4802.0  | 4977.7 |
| 17.5° | 3414.4 | 3444.9 | 3447.5 | 3557.0 | 3679.2 | 3854.9  | 3984.7  | 4084.0  | 4443.0  | 4837.7  | 4980.2 |
| 20°   | 3465.3 | 3447.5 | 3462.7 | 3531.5 | 3651.2 | 3819.2  | 4007.6  | 4040.7  | 4420.1  | 4855.5  | 5008.3 |
| 22.5° | 3610.4 | 3605.3 | 3567.1 | 3623.2 | 3707.2 | 3882.9  | 4061.1  | 4112.0  | 4486.3  | 4947.1  | 5031.2 |
| 25°   | 3770.8 | 3798.8 | 3763.2 | 3755.6 | 3814.1 | 3987.3  | 4224.0  | 4290.2  | 4707.8  | 5112.6  | 5102.5 |
| 27.5° | 4071.3 | 4043.3 | 4043.3 | 4007.6 | 3992.3 | 4076.4  | 4399.7  | 4509.2  | 4954.8  | 5326.5  | 5183.9 |
| 30°   | 4359.0 | 4389.5 | 4366.6 | 4379.4 | 4277.5 | 4269.9  | 4649.2  | 4784.2  | 5392.7  | 5652.4  | 5357.1 |
| 32.5° | 4814.7 | 4774.0 | 4812.2 | 4779.1 | 4644.2 | 4506.7  | 4987.9  | 5127.9  | 5922.3  | 6026.7  | 5616.8 |
| 35°   | 5194.1 | 5176.3 | 5339.3 | 5334.2 | 5115.2 | 4980.2  | 5346.9  | 5555.7  | 6291.5  | 6474.8  | 5922.3 |
| 37.5° | 5733.9 | 5700.8 | 5886.7 | 5975.8 | 5779.7 | 5578.6  | 5861.2  | 6103.1  | 6635.2  | 6833.8  | 6235.5 |
| 40°   | 6289.0 | 6373.0 | 6622.5 | 6770.2 | 6561.4 | 6294.1  | 6490.1  | 6563.9  | 6864.4  | 7068.1  | 6449.4 |
| 42.5° | 6991.7 | 7113.9 | 7368.5 | 7495.8 | 7478.0 | 7187.8  | 7129.2  | 7126.6  | 7029.9  | 7001.9  | 6607.2 |
| 45°   | 7666.4 | 7620.6 | 8012.7 | 8290.2 | 8514.3 | 8430.3  | 7745.4  | 7669.0  | 7292.1  | 7101.2  | 6648.0 |
| 47.5° | 7961.8 | 7946.5 | 8213.8 | 8707.8 | 9471.6 | 9576.0  | 8641.6  | 8346.2  | 7735.2  | 7518.7  | 6869.5 |
| 50°   | 7579.9 | 7658.8 | 7923.6 | 8471.0 | 9642.2 | 10439.2 | 9741.5  | 9344.3  | 8252.0  | 8028.0  | 7394.0 |
| 52.5° | 6332.2 | 6385.7 | 6637.8 | 7332.9 | 9061.7 | 10948.4 | 10795.6 | 10566.5 | 9201.7  | 8830.0  | 8308.1 |
| 54°   | 5206.9 | 5349.4 | 5486.9 | 6184.6 | 8028.0 | 10665.8 | 11373.6 | 11197.9 | 9820.5  | 9497.1  | 8883.5 |
| 55°   | 4534.7 | 4618.7 | 4718.0 | 5413.1 | 7312.5 | 10187.1 | 11307.4 | 11322.7 | 10235.5 | 9705.9  | 9270.5 |
| 57.5° | 3312.5 | 3371.1 | 3269.2 | 3577.3 | 5021.0 | 8272.4  | 10342.4 | 10754.9 | 10795.6 | 10019.1 | 9507.3 |
| 60°   | 2530.9 | 2556.3 | 2441.7 | 2490.1 | 3121.6 | 5677.9  | 8000.0  | 8496.5  | 9739.0  | 8756.2  | 8053.4 |
| 62.5° | 1963.1 | 1968.2 | 1965.6 | 2049.6 | 2151.5 | 3340.5  | 5003.2  | 5443.6  | 6714.2  | 6217.7  | 5469.1 |
| 65°   | 1446.2 | 1423.3 | 1464.0 | 1718.6 | 1835.8 | 2100.6  | 2635.3  | 2956.1  | 3648.6  | 3080.8  | 2202.4 |
| 67.5° | 937.0  | 944.6  | 985.4  | 1278.2 | 1573.5 | 1611.7  | 1621.9  | 1596.4  | 1599.0  | 881.0   | 552.5  |
| 70°   | 562.7  | 575.4  | 562.7  | 723.1  | 1125.4 | 1155.9  | 1056.6  | 1031.2  | 804.6   | 208.8   | 206.2  |
| 72.5° | 333.5  | 315.7  | 282.6  | 310.6  | 468.5  | 560.2   | 504.1   | 501.6   | 315.7   | 122.2   | 122.2  |
| 75°   | 140.0  | 127.3  | 104.4  | 94.2   | 124.8  | 119.7   | 119.7   | 106.9   | 84.0    | 81.5    | 76.4   |
| 77.5° | 28.0   | 28.0   | 20.4   | 22.9   | 30.6   | 35.6    | 43.3    | 43.3    | 50.9    | 50.9    | 48.4   |
| 80°   | 0.0    | 2.5    | 7.6    | 15.3   | 22.9   | 33.1    | 38.2    | 38.2    | 43.3    | 43.3    | 35.6   |
| 82.5° | 0.0    | 2.5    | 7.6    | 15.3   | 20.4   | 30.6    | 38.2    | 38.2    | 43.3    | 45.8    | 38.2   |
| 85°   | 0.0    | 2.5    | 7.6    | 12.7   | 20.4   | 25.5    | 25.5    | 22.9    | 17.8    | 15.3    | 10.2   |
| 87.5° | 0.0    | 0.0    | 2.5    | 5.1    | 2.5    | 5.1     | 5.1     | 5.1     | 5.1     | 5.1     | 5.1    |
| 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°    | 4909.0 | 4909.0 | 4909.0 | 4909.0 | 4909.0 | 4909.0 | 4909.0 | 4909.0 | 4909.0 | 4909.0 | 4909.0 |
| 2.5°  | 4931.9 | 4929.3 | 4868.2 | 4768.9 | 4746.0 | 4662.0 | 4651.8 | 4600.9 | 4628.9 | 4534.7 | 4524.5 |
| 5°    | 4891.1 | 4860.6 | 4786.7 | 4723.1 | 4537.2 | 4404.8 | 4300.4 | 4173.1 | 4099.3 | 4112.0 | 4063.6 |
| 7.5°  | 4949.7 | 4870.8 | 4740.9 | 4519.4 | 4292.8 | 4061.1 | 3936.3 | 3676.6 | 3582.4 | 3442.4 | 3422.0 |
| 10°   | 4888.6 | 4830.0 | 4628.9 | 4262.2 | 3949.1 | 3615.5 | 3322.7 | 3035.0 | 2816.0 | 2721.8 | 2701.5 |
| 12.5° | 4883.5 | 4781.6 | 4445.6 | 4038.2 | 3585.0 | 3106.3 | 2681.1 | 2322.1 | 2105.7 | 1983.4 | 1955.4 |
| 15°   | 4804.6 | 4682.3 | 4239.3 | 3691.9 | 3065.6 | 2469.8 | 2006.4 | 1660.1 | 1494.6 | 1423.3 | 1443.7 |
| 17.5° | 4812.2 | 4628.9 | 4033.1 | 3325.3 | 2553.8 | 1812.9 | 1369.8 | 1191.6 | 1148.3 | 1166.1 | 1166.1 |
| 20°   | 4804.6 | 4509.2 | 3783.6 | 2902.6 | 1955.4 | 1257.8 | 1005.7 | 942.1  | 970.1  | 1026.1 | 1013.4 |
| 22.5° | 4763.8 | 4453.2 | 3554.4 | 2457.0 | 1438.6 | 931.9  | 807.1  | 809.7  | 853.0  | 921.7  | 937.0  |
| 25°   | 4794.4 | 4328.4 | 3264.2 | 2006.4 | 1049.0 | 743.5  | 700.2  | 718.0  | 763.8  | 814.8  | 824.9  |
| 27.5° | 4771.5 | 4239.3 | 2961.2 | 1558.2 | 766.4  | 639.1  | 636.5  | 656.9  | 677.3  | 715.5  | 715.5  |
| 30°   | 4796.9 | 4157.8 | 2663.3 | 1158.5 | 631.4  | 585.6  | 575.4  | 590.7  | 611.1  | 618.7  | 616.2  |
| 32.5° | 4891.1 | 4096.7 | 2319.5 | 865.7  | 557.6  | 534.7  | 534.7  | 534.7  | 532.1  | 542.3  | 544.9  |
| 35°   | 5097.4 | 4106.9 | 2016.5 | 669.6  | 509.2  | 491.4  | 483.8  | 473.6  | 468.5  | 473.6  | 476.1  |
| 37.5° | 5321.4 | 4101.8 | 1703.4 | 570.3  | 473.6  | 458.3  | 440.5  | 425.2  | 422.7  | 427.8  | 420.1  |
| 40°   | 5420.7 | 4150.2 | 1413.1 | 511.8  | 440.5  | 422.7  | 394.7  | 381.9  | 384.5  | 389.6  | 384.5  |
| 42.5° | 5555.7 | 4165.5 | 1224.7 | 465.9  | 409.9  | 381.9  | 364.1  | 348.8  | 346.3  | 353.9  | 351.4  |
| 45°   | 5553.1 | 4078.9 | 1026.1 | 440.5  | 381.9  | 351.4  | 328.5  | 315.7  | 315.7  | 320.8  | 323.4  |
| 47.5° | 5716.1 | 4066.2 | 881.0  | 417.6  | 361.6  | 331.0  | 303.0  | 292.8  | 290.3  | 290.3  | 285.2  |
| 50°   | 6095.5 | 4244.4 | 768.9  | 392.1  | 336.1  | 308.1  | 285.2  | 272.4  | 262.3  | 257.2  | 254.6  |
| 52.5° | 6836.4 | 4799.5 | 682.4  | 361.6  | 308.1  | 285.2  | 264.8  | 254.6  | 241.9  | 229.2  | 226.6  |
| 54°   | 7554.4 | 5372.4 | 677.3  | 336.1  | 285.2  | 269.9  | 252.1  | 247.0  | 231.7  | 213.9  | 208.8  |
| 55°   | 7877.8 | 5705.9 | 695.1  | 315.7  | 269.9  | 259.7  | 244.4  | 239.3  | 224.1  | 203.7  | 201.1  |
| 57.5° | 8145.1 | 5835.8 | 684.9  | 262.3  | 244.4  | 241.9  | 229.2  | 221.5  | 203.7  | 175.7  | 170.6  |
| 60°   | 6556.3 | 4412.5 | 491.4  | 231.7  | 224.1  | 219.0  | 208.8  | 203.7  | 180.8  | 150.2  | 147.7  |
| 62.5° | 4142.6 | 2538.5 | 313.2  | 203.7  | 196.1  | 188.4  | 175.7  | 170.6  | 150.2  | 119.7  | 112.0  |
| 65°   | 1764.5 | 1051.6 | 211.3  | 180.8  | 168.0  | 155.3  | 145.1  | 137.5  | 119.7  | 89.1   | 86.6   |
| 67.5° | 458.3  | 374.3  | 175.7  | 157.9  | 140.0  | 122.2  | 114.6  | 101.8  | 81.5   | 61.1   | 58.6   |
| 70°   | 206.2  | 188.4  | 147.7  | 132.4  | 112.0  | 94.2   | 84.0   | 71.3   | 53.5   | 40.7   | 38.2   |
| 72.5° | 122.2  | 119.7  | 112.0  | 99.3   | 84.0   | 71.3   | 61.1   | 48.4   | 35.6   | 22.9   | 22.9   |
| 75°   | 76.4   | 73.8   | 76.4   | 68.7   | 58.6   | 53.5   | 45.8   | 33.1   | 20.4   | 10.2   | 10.2   |
| 77.5° | 45.8   | 45.8   | 45.8   | 43.3   | 40.7   | 40.7   | 33.1   | 20.4   | 10.2   | 2.5    | 2.5    |
| 80°   | 35.6   | 35.6   | 38.2   | 35.6   | 35.6   | 35.6   | 28.0   | 15.3   | 5.1    | 0.0    | 0.0    |
| 82.5° | 35.6   | 38.2   | 43.3   | 40.7   | 35.6   | 30.6   | 25.5   | 15.3   | 5.1    | 0.0    | 0.0    |
| 85°   | 10.2   | 7.6    | 12.7   | 17.8   | 25.5   | 22.9   | 17.8   | 12.7   | 5.1    | 0.0    | 0.0    |
| 87.5° | 5.1    | 5.1    | 5.1    | 5.1    | 2.5    | 2.5    | 2.5    | 2.5    | 2.5    | 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)