

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: P528935

Luminaire Tested: **GLAN-SA4A-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528935  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4A-740-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10580 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

Input Watts (W): 121  
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

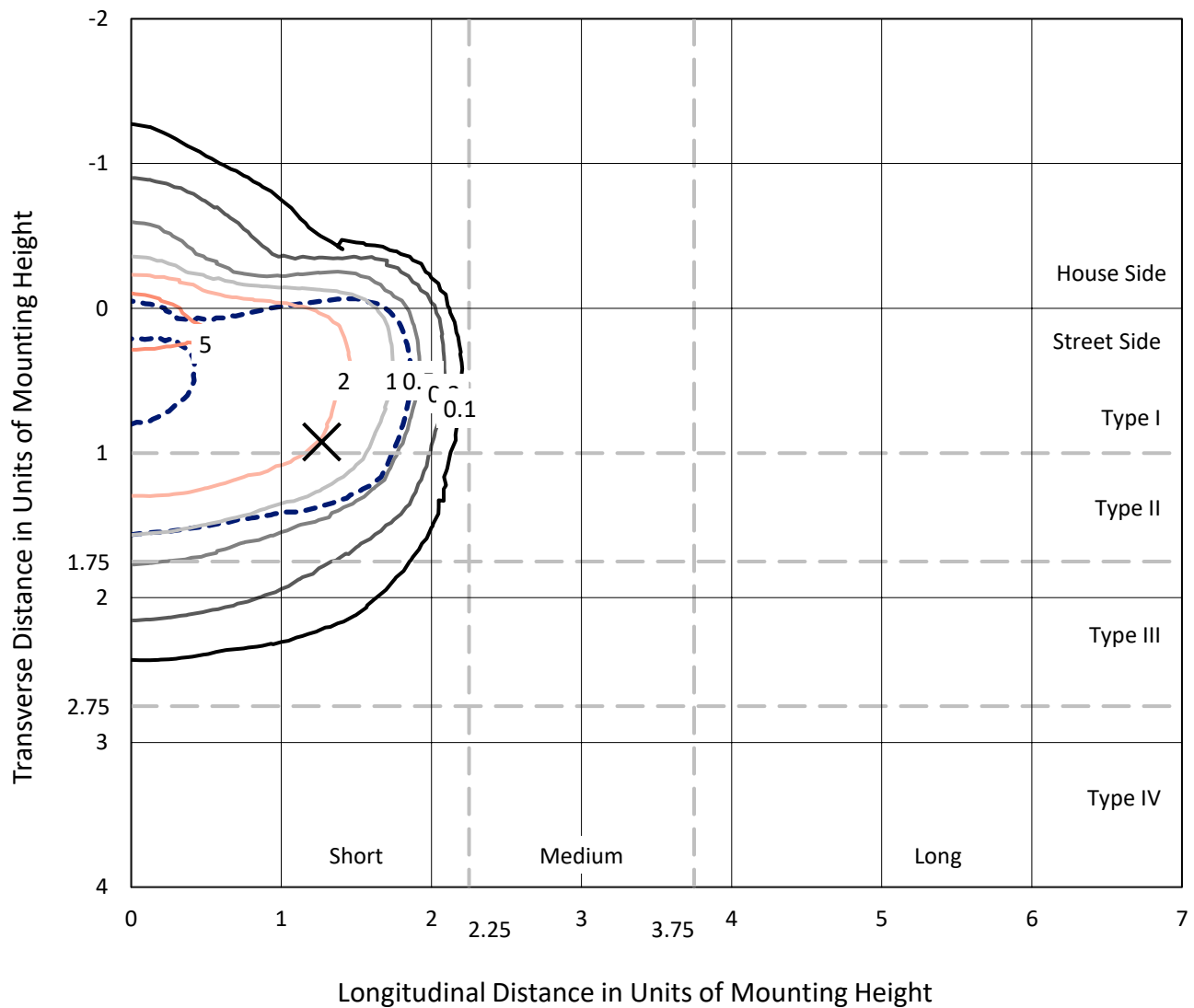


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

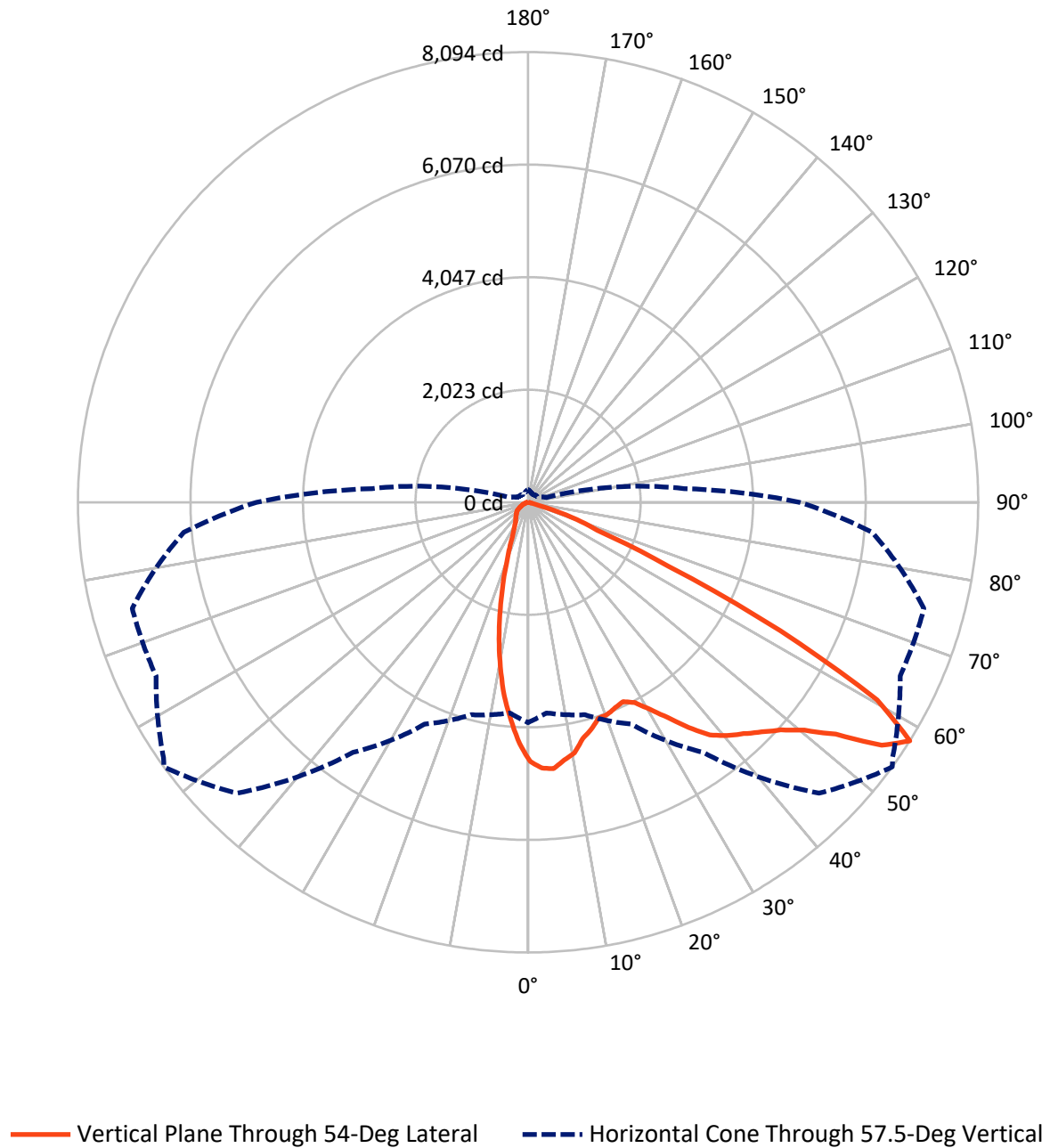


Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1495.1   | 0.0    | 1495.1  |
|                    | % Fixture | 14.1     | 0.0    | 14.1    |
| <b>Street Side</b> | Lumens    | 9084.9   | 0.0    | 9084.9  |
|                    | % Fixture | 85.9     | 0.0    | 85.9    |
| <b>Total</b>       | Lumens    | 10580.0  | 0.0    | 10580.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 390.0   | 3.7       |
| 10°-20°   | 832.7   | 7.9       |
| 20°-30°   | 1103.4  | 10.4      |
| 30°-40°   | 1603.6  | 15.2      |
| 40°-50°   | 2377.9  | 22.5      |
| 50°-60°   | 2973.5  | 28.1      |
| 60°-70°   | 1172.9  | 11.1      |
| 70°-80°   | 116.8   | 1.1       |
| 80°-90°   | 9.1     | 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°    | 10580.0 | 100.0     |
| 0°-180°   | 10580.0 | 100.0     |

**Coefficient of Utilization**



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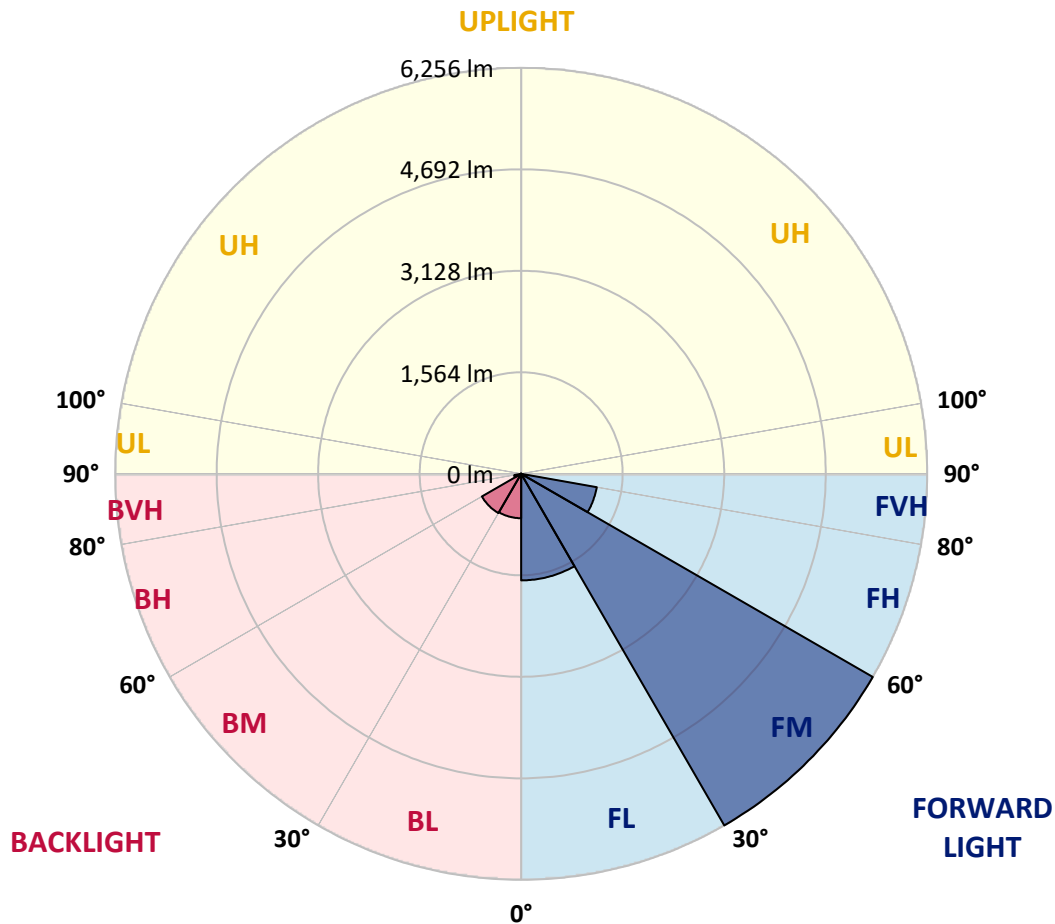
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1642.3 | 15.5      |                         |      |         |
| FM   | (30°-60°)   | 6255.9 | 59.1      |                         |      |         |
| FH   | (60°-80°)   | 1182.5 | 11.2      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 4.1    | 0.0       |                         |      | G0/10   |
| BL   | (0°-30°)    | 683.8  | 6.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 699.2  | 6.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 107.2  | 1.0       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 5.0    | 0.0       |                         |      | 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°    | 54°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4660.6 | 4660.6 | 4660.6 | 4660.6 | 4660.6 | 4660.6 | 4660.6 | 4660.6 | 4660.6 | 4660.6 | 4660.6 |
| 2.5°  | 4932.1 | 4881.0 | 4884.9 | 4867.2 | 4843.6 | 4861.3 | 4784.6 | 4802.3 | 4800.3 | 4696.0 | 4627.2 |
| 5°    | 4808.2 | 4863.3 | 4806.2 | 4853.4 | 4808.2 | 4857.4 | 4810.2 | 4774.7 | 4717.7 | 4641.0 | 4513.1 |
| 7.5°  | 4597.7 | 4544.6 | 4560.3 | 4619.3 | 4629.2 | 4739.3 | 4680.3 | 4725.6 | 4701.9 | 4550.5 | 4375.4 |
| 10°   | 4174.7 | 4162.9 | 4241.6 | 4320.3 | 4416.7 | 4534.7 | 4580.0 | 4554.4 | 4536.7 | 4479.6 | 4245.5 |
| 12.5° | 3850.1 | 3883.5 | 3881.6 | 4011.4 | 4174.7 | 4241.6 | 4359.6 | 4355.7 | 4454.1 | 4347.8 | 4123.5 |
| 15°   | 3541.2 | 3558.9 | 3641.5 | 3722.2 | 3903.2 | 4094.0 | 4239.6 | 4259.3 | 4377.3 | 4302.6 | 4029.1 |
| 17.5° | 3352.4 | 3326.8 | 3391.7 | 3488.1 | 3673.0 | 3922.9 | 4084.2 | 4131.4 | 4292.7 | 4277.0 | 3920.9 |
| 20°   | 3165.5 | 3165.5 | 3218.6 | 3332.7 | 3501.9 | 3783.2 | 4070.4 | 4056.7 | 4292.7 | 4247.5 | 3804.8 |
| 22.5° | 3102.5 | 3134.0 | 3147.7 | 3234.3 | 3435.0 | 3677.0 | 4011.4 | 4037.0 | 4326.2 | 4233.7 | 3753.7 |
| 25°   | 3189.1 | 3147.7 | 3151.7 | 3220.5 | 3409.4 | 3625.8 | 3968.1 | 4025.2 | 4387.2 | 4302.6 | 3712.4 |
| 27.5° | 3202.8 | 3244.1 | 3256.0 | 3303.2 | 3429.1 | 3641.5 | 4076.3 | 4192.4 | 4538.7 | 4463.9 | 3724.2 |
| 30°   | 3322.8 | 3364.2 | 3362.2 | 3442.8 | 3529.4 | 3769.4 | 4318.3 | 4341.9 | 4851.5 | 4666.5 | 3797.0 |
| 32.5° | 3468.4 | 3511.7 | 3525.5 | 3619.9 | 3688.8 | 4003.5 | 4613.4 | 4674.4 | 5152.5 | 4985.2 | 3987.8 |
| 35°   | 3649.4 | 3633.7 | 3696.6 | 3791.1 | 3938.6 | 4345.9 | 4973.4 | 5075.7 | 5477.1 | 5398.4 | 4184.5 |
| 37.5° | 3875.7 | 3856.0 | 3917.0 | 4070.4 | 4271.1 | 4751.1 | 5305.9 | 5372.8 | 5713.2 | 5782.0 | 4548.5 |
| 40°   | 4035.0 | 4042.9 | 4227.8 | 4434.4 | 4646.9 | 5136.7 | 5516.4 | 5581.3 | 5878.4 | 6140.1 | 4823.9 |
| 42.5° | 4300.6 | 4349.8 | 4572.1 | 4823.9 | 5046.2 | 5425.9 | 5687.6 | 5750.5 | 5955.1 | 6427.3 | 5195.7 |
| 45°   | 4686.2 | 4664.6 | 4910.5 | 5191.8 | 5437.7 | 5726.9 | 5890.2 | 5868.6 | 6000.4 | 6712.6 | 5429.9 |
| 47.5° | 5182.0 | 5185.9 | 5349.2 | 5589.2 | 5845.0 | 5988.6 | 6116.5 | 6039.7 | 6094.8 | 7013.6 | 5742.7 |
| 50°   | 5520.4 | 5549.9 | 5681.7 | 5927.6 | 6055.5 | 6275.8 | 6439.1 | 6391.9 | 6374.2 | 7194.6 | 5939.4 |
| 52.5° | 5606.9 | 5695.5 | 5766.3 | 6073.2 | 6372.2 | 6720.4 | 6929.0 | 7029.3 | 6714.5 | 7255.6 | 6189.3 |
| 55°   | 4953.8 | 5032.5 | 5282.3 | 5703.3 | 6492.2 | 7424.7 | 7712.0 | 7713.9 | 7159.2 | 7527.0 | 6364.4 |
| 57.5° | 3960.3 | 3800.9 | 3954.4 | 4400.9 | 5488.9 | 7395.2 | 8093.6 | 8001.2 | 7381.5 | 7367.7 | 6212.9 |
| 60°   | 2738.5 | 2699.2 | 2709.0 | 2886.1 | 3798.9 | 5882.4 | 7212.3 | 7332.3 | 6797.2 | 6386.0 | 4918.4 |
| 62.5° | 2170.0 | 2136.5 | 2093.3 | 2073.6 | 2358.8 | 3665.2 | 5087.5 | 5256.7 | 4753.1 | 4141.3 | 2915.6 |
| 65°   | 1699.8 | 1680.1 | 1686.0 | 1764.7 | 1762.7 | 2079.5 | 2781.8 | 2713.0 | 2171.9 | 1605.4 | 916.8  |
| 67.5° | 1147.0 | 1176.5 | 1200.1 | 1438.1 | 1560.1 | 1448.0 | 1343.7 | 1304.3 | 706.3  | 297.1  | 202.6  |
| 70°   | 645.3  | 649.2  | 674.8  | 899.1  | 1184.3 | 1123.4 | 926.6  | 926.6  | 352.2  | 108.2  | 116.1  |
| 72.5° | 352.2  | 340.4  | 316.7  | 387.6  | 527.2  | 535.1  | 413.1  | 360.0  | 104.3  | 70.8   | 64.9   |
| 75°   | 171.2  | 169.2  | 145.6  | 120.0  | 114.1  | 94.4   | 72.8   | 66.9   | 47.2   | 45.2   | 39.3   |
| 77.5° | 35.4   | 33.4   | 17.7   | 17.7   | 19.7   | 21.6   | 27.5   | 27.5   | 33.4   | 33.4   | 27.5   |
| 80°   | 0.0    | 0.0    | 2.0    | 7.9    | 13.8   | 19.7   | 23.6   | 23.6   | 27.5   | 27.5   | 21.6   |
| 82.5° | 0.0    | 0.0    | 2.0    | 5.9    | 11.8   | 17.7   | 21.6   | 23.6   | 27.5   | 29.5   | 23.6   |
| 85°   | 0.0    | 0.0    | 0.0    | 3.9    | 9.8    | 13.8   | 11.8   | 11.8   | 9.8    | 7.9    | 3.9    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    |

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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4660.6 | 4660.6 | 4660.6 | 4660.6 | 4660.6 | 4660.6 | 4660.6 | 4660.6 | 4660.6 | 4660.6 | 4660.6 |
| 2.5°  | 4591.8 | 4587.8 | 4497.3 | 4446.2 | 4353.7 | 4273.1 | 4208.1 | 4160.9 | 4160.9 | 4131.4 | 4103.9 |
| 5°    | 4461.9 | 4428.5 | 4235.7 | 4111.7 | 3936.7 | 3806.8 | 3718.3 | 3649.4 | 3541.2 | 3570.7 | 3454.7 |
| 7.5°  | 4300.6 | 4216.0 | 3960.3 | 3771.4 | 3529.4 | 3344.5 | 3155.6 | 2988.4 | 2827.1 | 2754.3 | 2793.6 |
| 10°   | 4127.5 | 3979.9 | 3635.6 | 3336.6 | 3035.6 | 2697.2 | 2476.9 | 2209.3 | 2044.1 | 2034.2 | 1990.9 |
| 12.5° | 3944.5 | 3777.3 | 3358.3 | 2945.1 | 2549.7 | 2142.4 | 1806.0 | 1556.2 | 1444.0 | 1320.1 | 1343.7 |
| 15°   | 3806.8 | 3558.9 | 3049.4 | 2551.6 | 2026.4 | 1615.2 | 1276.8 | 1084.0 | 977.8  | 948.3  | 938.4  |
| 17.5° | 3657.3 | 3391.7 | 2734.6 | 2132.6 | 1589.6 | 1162.7 | 918.7  | 826.3  | 785.0  | 785.0  | 779.1  |
| 20°   | 3501.9 | 3202.8 | 2421.8 | 1743.1 | 1192.2 | 867.6  | 735.8  | 706.3  | 704.3  | 702.3  | 702.3  |
| 22.5° | 3399.6 | 2986.4 | 2138.5 | 1385.0 | 899.1  | 694.5  | 639.4  | 627.6  | 635.5  | 659.1  | 659.1  |
| 25°   | 3291.4 | 2777.9 | 1825.7 | 1068.3 | 696.4  | 596.1  | 564.6  | 572.5  | 592.2  | 613.8  | 605.9  |
| 27.5° | 3181.2 | 2642.1 | 1530.6 | 838.1  | 570.5  | 521.3  | 509.5  | 527.2  | 548.9  | 568.6  | 562.7  |
| 30°   | 3155.6 | 2496.6 | 1251.2 | 635.5  | 489.9  | 454.5  | 462.3  | 478.1  | 499.7  | 507.6  | 515.4  |
| 32.5° | 3195.0 | 2382.5 | 1025.0 | 521.3  | 426.9  | 417.1  | 417.1  | 424.9  | 438.7  | 456.4  | 450.5  |
| 35°   | 3307.1 | 2317.5 | 810.5  | 452.5  | 391.5  | 381.7  | 379.7  | 387.6  | 395.4  | 401.3  | 395.4  |
| 37.5° | 3478.3 | 2266.4 | 663.0  | 401.3  | 367.9  | 352.2  | 348.2  | 346.3  | 354.1  | 356.1  | 360.0  |
| 40°   | 3696.6 | 2293.9 | 562.7  | 369.9  | 344.3  | 326.6  | 314.8  | 314.8  | 314.8  | 320.7  | 322.6  |
| 42.5° | 3932.7 | 2331.3 | 485.9  | 352.2  | 322.6  | 301.0  | 289.2  | 285.3  | 289.2  | 297.1  | 295.1  |
| 45°   | 4180.6 | 2404.1 | 436.7  | 324.6  | 303.0  | 275.4  | 259.7  | 255.8  | 265.6  | 281.3  | 279.4  |
| 47.5° | 4412.7 | 2508.4 | 399.4  | 306.9  | 283.3  | 257.7  | 238.0  | 234.1  | 251.8  | 273.5  | 275.4  |
| 50°   | 4644.9 | 2689.4 | 385.6  | 293.1  | 269.5  | 240.0  | 222.3  | 218.4  | 238.0  | 265.6  | 271.5  |
| 52.5° | 4912.5 | 2884.1 | 375.8  | 275.4  | 253.8  | 226.2  | 206.6  | 202.6  | 224.3  | 259.7  | 261.7  |
| 55°   | 5087.5 | 3049.4 | 367.9  | 244.0  | 224.3  | 204.6  | 188.9  | 186.9  | 210.5  | 242.0  | 249.9  |
| 57.5° | 4882.9 | 2819.2 | 340.4  | 212.5  | 190.8  | 181.0  | 167.2  | 167.2  | 186.9  | 216.4  | 222.3  |
| 60°   | 3702.5 | 1855.2 | 242.0  | 171.2  | 161.3  | 155.4  | 149.5  | 149.5  | 165.3  | 186.9  | 188.9  |
| 62.5° | 2168.0 | 999.4  | 155.4  | 137.7  | 137.7  | 131.8  | 122.0  | 122.0  | 137.7  | 149.5  | 151.5  |
| 65°   | 643.3  | 320.7  | 125.9  | 118.0  | 116.1  | 106.2  | 96.4   | 94.4   | 106.2  | 112.1  | 110.2  |
| 67.5° | 184.9  | 147.6  | 104.3  | 98.4   | 96.4   | 80.7   | 74.8   | 72.8   | 74.8   | 70.8   | 68.9   |
| 70°   | 110.2  | 100.3  | 80.7   | 82.6   | 72.8   | 59.0   | 53.1   | 51.2   | 47.2   | 41.3   | 37.4   |
| 72.5° | 61.0   | 61.0   | 59.0   | 63.0   | 51.2   | 39.3   | 33.4   | 27.5   | 21.6   | 17.7   | 15.7   |
| 75°   | 37.4   | 39.3   | 41.3   | 43.3   | 33.4   | 25.6   | 21.6   | 13.8   | 7.9    | 3.9    | 3.9    |
| 77.5° | 25.6   | 27.5   | 29.5   | 31.5   | 27.5   | 23.6   | 17.7   | 9.8    | 2.0    | 0.0    | 0.0    |
| 80°   | 19.7   | 21.6   | 25.6   | 27.5   | 29.5   | 31.5   | 23.6   | 9.8    | 2.0    | 0.0    | 0.0    |
| 82.5° | 21.6   | 23.6   | 29.5   | 27.5   | 27.5   | 27.5   | 21.6   | 9.8    | 2.0    | 0.0    | 0.0    |
| 85°   | 3.9    | 5.9    | 9.8    | 9.8    | 13.8   | 17.7   | 13.8   | 3.9    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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)