

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: P459234

Luminaire Tested: **GLAN-SA7A-735-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459234  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA7A-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21367 lumens  
Efficiency: N/A  
Efficacy: 99.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

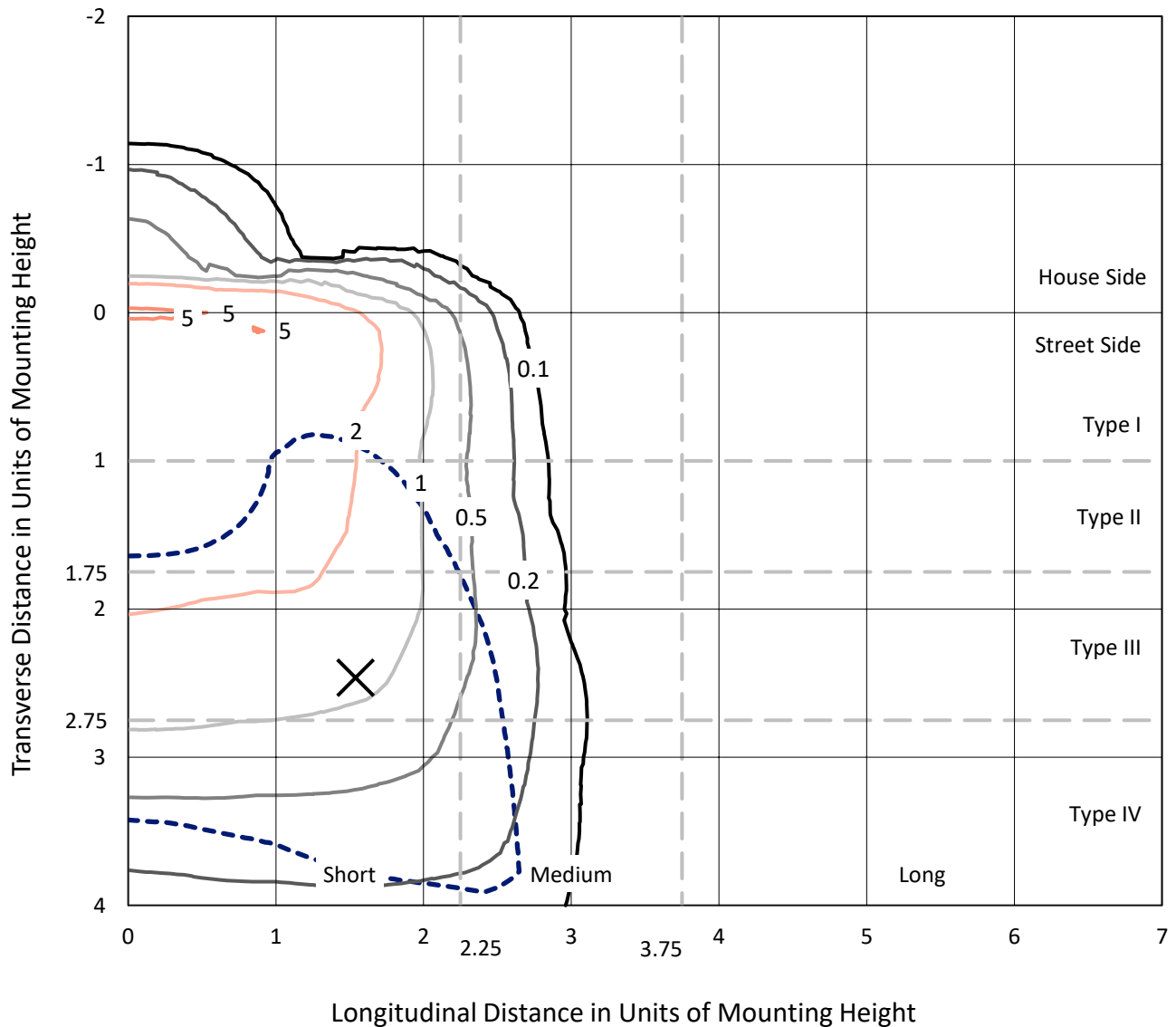
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

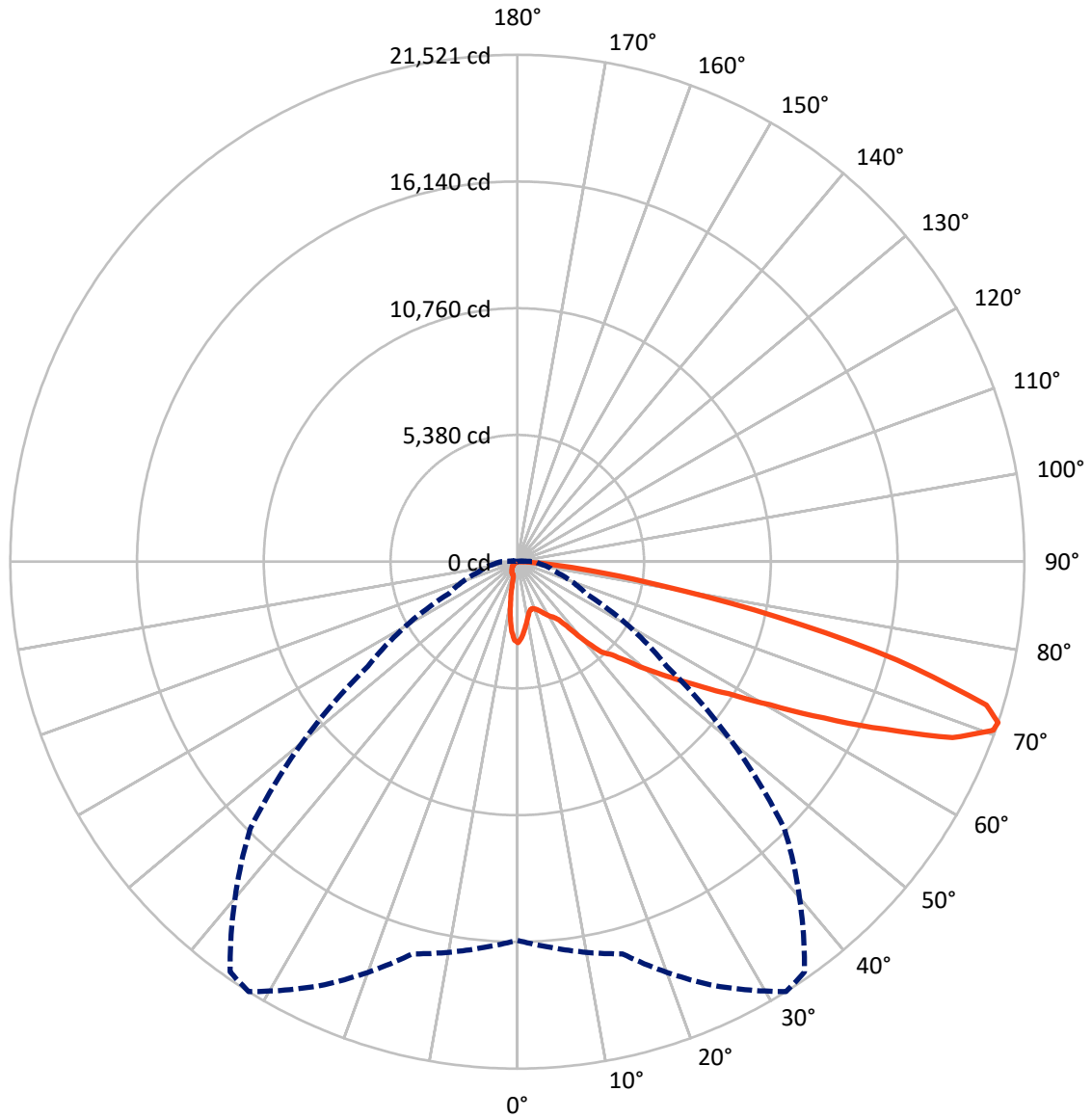
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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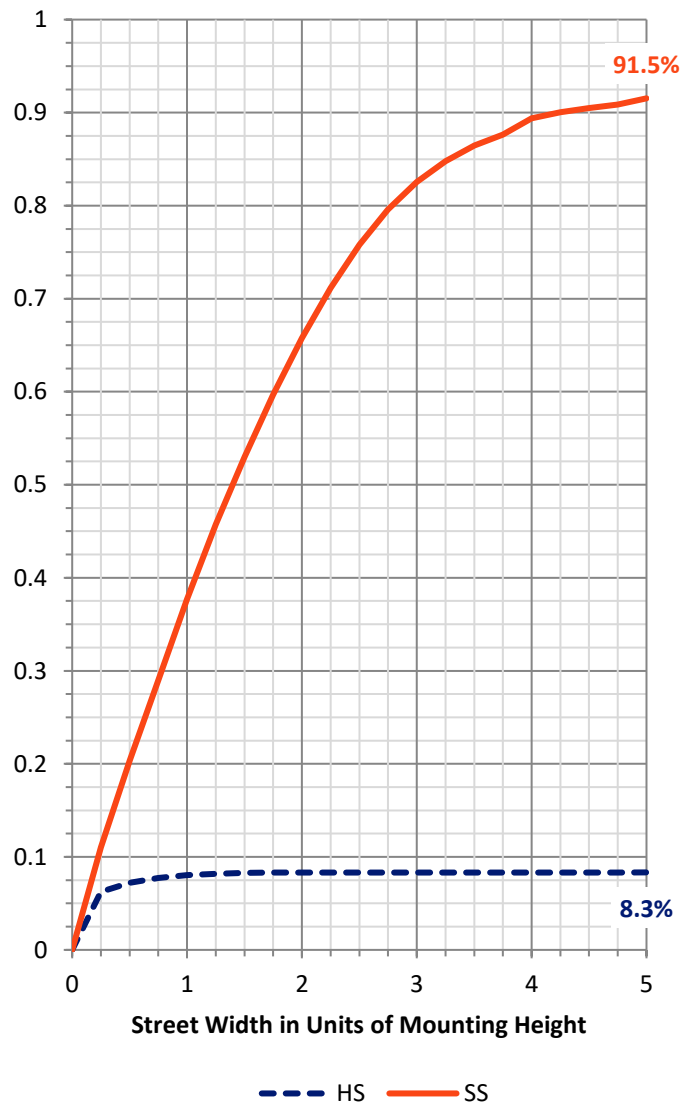
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1789.7   | 0.0    | 1789.7  |
|                    | % Fixture | 8.4      | 0.0    | 8.4     |
| <b>Street Side</b> | Lumens    | 19577.3  | 0.0    | 19577.3 |
|                    | % Fixture | 91.6     | 0.0    | 91.6    |
| <b>Total</b>       | Lumens    | 21367.0  | 0.0    | 21367.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 279.4   | 1.3       |
| 10°-20°   | 606.4   | 2.8       |
| 20°-30°   | 943.4   | 4.4       |
| 30°-40°   | 1571.6  | 7.4       |
| 40°-50°   | 2923.5  | 13.7      |
| 50°-60°   | 4693.8  | 22.0      |
| 60°-70°   | 6313.4  | 29.5      |
| 70°-80°   | 3745.8  | 17.5      |
| 80°-90°   | 289.5   | 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°    | 21367.0 | 100.0     |
| 0°-180°   | 21367.0 | 100.0     |



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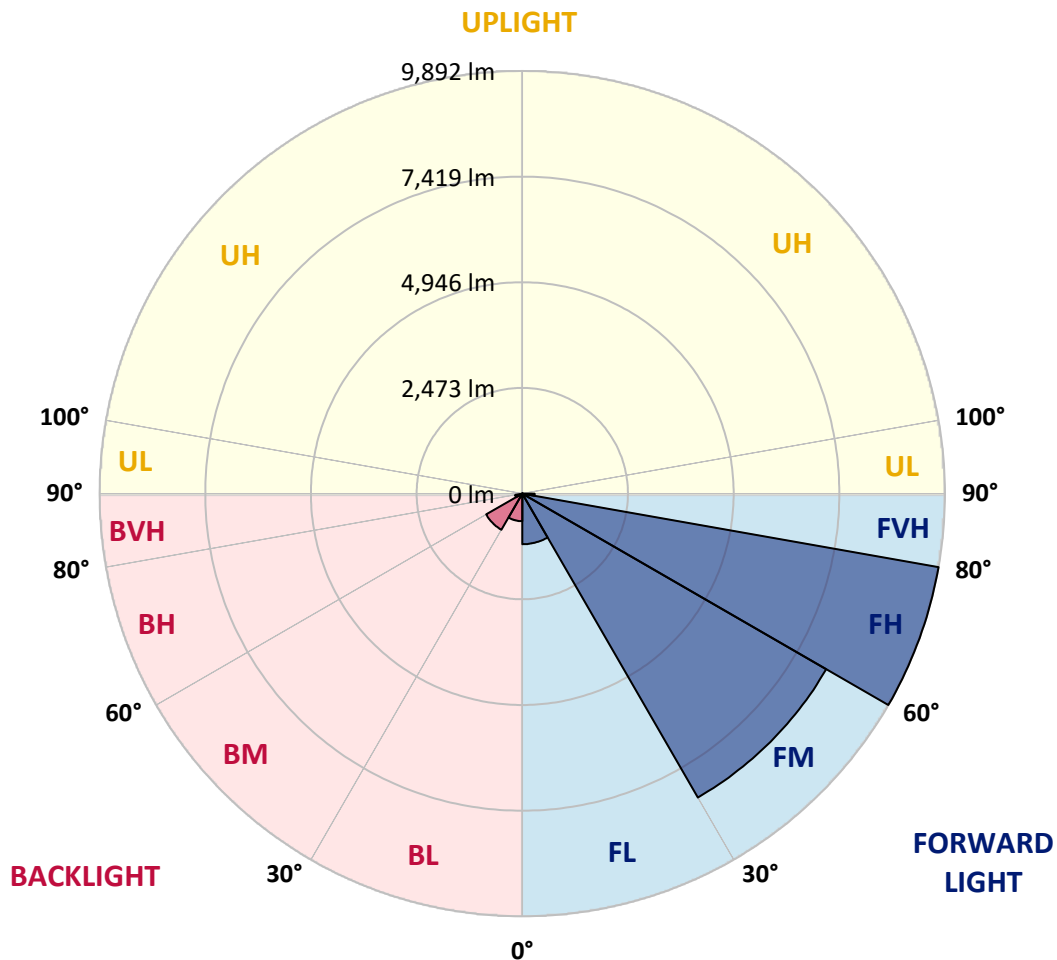
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1184.3 | 5.5       |                         |      |          |
| FM   | (30°-60°)   | 8212.7 | 38.4      |                         |      |          |
| FH   | (60°-80°)   | 9891.9 | 46.3      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 288.4  | 1.3       |                         |      | G3/500   |
| BL   | (0°-30°)    | 644.9  | 3.0       | B2/1000                 |      |          |
| BM   | (30°-60°)   | 976.3  | 4.6       | B1/1000                 |      |          |
| BH   | (60°-80°)   | 167.4  | 0.8       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 1.1    | 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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 32°     | 35°     | 45°     | 55°     | 65°    | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|
| 0°    | 3436.1  | 3436.1  | 3436.1  | 3436.1  | 3436.1  | 3436.1  | 3436.1  | 3436.1  | 3436.1 | 3436.1  | 3436.1  |
| 2.5°  | 3186.8  | 3219.6  | 3214.7  | 3226.2  | 3254.1  | 3265.6  | 3296.7  | 3331.2  | 3378.7 | 3411.5  | 3432.9  |
| 5°    | 2853.9  | 2878.5  | 2881.8  | 2939.2  | 2967.1  | 2998.2  | 3090.1  | 3190.1  | 3301.7 | 3390.2  | 3449.3  |
| 7.5°  | 2498.0  | 2511.1  | 2537.3  | 2612.8  | 2683.3  | 2714.5  | 2853.9  | 3027.7  | 3203.2 | 3368.9  | 3475.5  |
| 10°   | 2204.4  | 2219.1  | 2266.7  | 2347.1  | 2412.7  | 2453.7  | 2647.2  | 2865.4  | 3111.4 | 3357.4  | 3513.2  |
| 12.5° | 2037.1  | 2045.3  | 2063.3  | 2135.5  | 2219.1  | 2263.4  | 2471.7  | 2721.0  | 3037.6 | 3362.3  | 3577.2  |
| 15°   | 2025.6  | 2022.3  | 2001.0  | 2030.5  | 2106.0  | 2151.9  | 2355.3  | 2622.6  | 2972.0 | 3378.7  | 3652.6  |
| 17.5° | 2086.3  | 2078.1  | 2027.2  | 2027.2  | 2089.6  | 2127.3  | 2306.1  | 2570.1  | 2939.2 | 3416.5  | 3759.3  |
| 20°   | 2179.8  | 2166.7  | 2083.0  | 2076.4  | 2137.1  | 2176.5  | 2335.6  | 2573.4  | 2945.7 | 3487.0  | 3902.0  |
| 22.5° | 2297.9  | 2283.1  | 2156.8  | 2160.1  | 2225.7  | 2265.1  | 2420.9  | 2632.5  | 2986.7 | 3573.9  | 4054.5  |
| 25°   | 2452.0  | 2435.6  | 2286.4  | 2279.8  | 2348.7  | 2383.2  | 2547.2  | 2737.4  | 3044.1 | 3682.2  | 4254.6  |
| 27.5° | 2657.1  | 2622.6  | 2443.8  | 2434.0  | 2507.8  | 2552.1  | 2699.7  | 2878.5  | 3145.8 | 3831.4  | 4523.6  |
| 30°   | 2826.0  | 2788.3  | 2617.7  | 2591.5  | 2670.2  | 2704.6  | 2857.2  | 3068.8  | 3345.9 | 4092.2  | 4895.9  |
| 32.5° | 3047.4  | 2991.7  | 2791.6  | 2722.7  | 2806.3  | 2850.6  | 3085.2  | 3423.0  | 3642.8 | 4367.8  | 5338.7  |
| 35°   | 3546.0  | 3511.6  | 3267.2  | 3026.1  | 3021.2  | 3077.0  | 3421.4  | 3780.6  | 3947.9 | 4797.5  | 5942.3  |
| 37.5° | 4259.5  | 4234.9  | 3975.8  | 3652.6  | 3559.2  | 3532.9  | 3829.8  | 4174.2  | 4435.0 | 5387.9  | 6644.3  |
| 40°   | 5087.8  | 5030.4  | 4792.6  | 4518.7  | 4397.3  | 4320.2  | 4312.0  | 4759.8  | 5071.4 | 6190.0  | 7375.8  |
| 42.5° | 5681.5  | 5576.6  | 5287.9  | 5268.2  | 5242.0  | 5161.6  | 4928.7  | 5615.9  | 5893.1 | 7052.7  | 8158.2  |
| 45°   | 6304.8  | 6145.7  | 5716.0  | 5642.2  | 5632.3  | 5627.4  | 5860.3  | 6629.6  | 6788.6 | 7987.6  | 8961.9  |
| 47.5° | 6788.6  | 6662.4  | 6309.7  | 6276.9  | 6317.9  | 6429.4  | 7092.1  | 7705.5  | 7672.7 | 8820.8  | 9636.0  |
| 50°   | 7433.2  | 7338.1  | 6946.1  | 7008.4  | 7220.0  | 7402.1  | 8481.3  | 8878.2  | 8399.3 | 9476.9  | 10126.4 |
| 52.5° | 8194.3  | 8018.8  | 7654.7  | 7823.6  | 8148.3  | 8451.8  | 9955.8  | 9905.0  | 8909.4 | 9970.6  | 10492.1 |
| 55°   | 8853.6  | 8729.0  | 8604.3  | 8779.8  | 9265.3  | 9644.2  | 11287.6 | 10674.2 | 9280.1 | 10367.5 | 10652.9 |
| 57.5° | 9968.9  | 9939.4  | 9811.5  | 9990.2  | 10579.1 | 10972.7 | 12480.0 | 11271.2 | 9517.9 | 10574.1 | 10464.3 |
| 60°   | 11618.9 | 11571.4 | 11333.5 | 11561.5 | 12329.1 | 12947.5 | 13578.9 | 11807.6 | 9572.0 | 10493.8 | 9921.4  |
| 62.5° | 13603.5 | 13441.2 | 13237.8 | 13574.0 | 14627.0 | 14899.3 | 14613.9 | 12125.7 | 9370.3 | 9854.1  | 8612.5  |
| 65°   | 15456.9 | 15289.6 | 15294.5 | 16003.1 | 17149.6 | 17334.9 | 15821.0 | 12078.2 | 8779.8 | 8251.7  | 6352.4  |
| 67.5° | 16875.7 | 16847.8 | 17047.9 | 18430.5 | 19929.7 | 19801.7 | 16900.3 | 11366.3 | 7029.8 | 5348.6  | 3375.5  |
| 70°   | 16947.8 | 17002.0 | 17576.0 | 19910.0 | 21432.0 | 21228.7 | 16808.4 | 9239.1  | 4382.5 | 2460.2  | 1330.2  |
| 71°   | 16075.3 | 16439.4 | 17233.2 | 19864.0 | 21520.6 | 21256.5 | 16034.3 | 7738.3  | 3214.7 | 1715.6  | 959.5   |
| 72.5° | 13698.7 | 13890.6 | 15606.2 | 18694.6 | 20820.3 | 20256.0 | 14071.0 | 5424.0  | 2058.4 | 1049.7  | 551.1   |
| 75°   | 7544.8  | 8017.1  | 10451.1 | 14666.4 | 16652.6 | 16157.3 | 9170.2  | 2576.7  | 1026.7 | 574.1   | 228.0   |
| 77.5° | 3592.0  | 3500.1  | 5099.3  | 8722.4  | 11290.9 | 11264.7 | 4620.3  | 1144.8  | 598.7  | 388.7   | 114.8   |
| 80°   | 1026.7  | 1154.7  | 1951.8  | 4146.3  | 6268.7  | 6337.6  | 1774.7  | 552.7   | 415.0  | 303.4   | 59.0    |
| 82.5° | 310.0   | 316.6   | 716.8   | 1833.7  | 3118.0  | 2939.2  | 665.9   | 282.1   | 298.5  | 241.1   | 34.4    |
| 85°   | 54.1    | 67.2    | 211.6   | 646.2   | 1189.1  | 902.1   | 167.3   | 134.5   | 196.8  | 159.1   | 19.7    |
| 87.5° | 3.3     | 4.9     | 70.5    | 73.8    | 105.0   | 60.7    | 29.5    | 19.7    | 42.6   | 42.6    | 11.5    |
| 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°    | 3436.1 | 3436.1 | 3436.1 | 3436.1 | 3436.1 | 3436.1 | 3436.1 | 3436.1 | 3436.1 | 3436.1 | 3436.1 |
| 2.5°  | 3447.6 | 3457.5 | 3450.9 | 3436.1 | 3411.5 | 3382.0 | 3342.7 | 3309.9 | 3282.0 | 3267.2 | 3285.3 |
| 5°    | 3469.0 | 3482.1 | 3449.3 | 3375.5 | 3263.9 | 3142.6 | 3004.8 | 2898.2 | 2814.5 | 2788.3 | 2778.4 |
| 7.5°  | 3501.8 | 3510.0 | 3421.4 | 3257.4 | 3021.2 | 2734.2 | 2483.2 | 2271.6 | 2107.6 | 2058.4 | 1986.2 |
| 10°   | 3544.4 | 3539.5 | 3372.2 | 3067.1 | 2652.1 | 2220.8 | 1832.1 | 1543.4 | 1325.3 | 1246.5 | 1240.0 |
| 12.5° | 3610.0 | 3583.8 | 3309.9 | 2808.0 | 2212.6 | 1648.4 | 1167.8 | 913.6  | 775.8  | 729.9  | 720.0  |
| 15°   | 3692.0 | 3629.7 | 3211.4 | 2504.5 | 1694.3 | 1064.5 | 720.0  | 642.9  | 624.9  | 621.6  | 618.3  |
| 17.5° | 3788.8 | 3690.4 | 3081.9 | 2132.2 | 1190.8 | 690.5  | 601.9  | 600.3  | 601.9  | 598.7  | 597.0  |
| 20°   | 3920.0 | 3754.3 | 2927.7 | 1691.0 | 787.3  | 582.3  | 574.1  | 574.1  | 575.7  | 574.1  | 574.1  |
| 22.5° | 4059.4 | 3829.8 | 2737.4 | 1290.8 | 593.7  | 552.7  | 551.1  | 554.4  | 557.7  | 556.0  | 556.0  |
| 25°   | 4231.6 | 3928.2 | 2486.5 | 884.0  | 531.4  | 528.1  | 529.8  | 536.3  | 542.9  | 544.5  | 542.9  |
| 27.5° | 4480.9 | 4049.6 | 2217.5 | 608.5  | 487.1  | 490.4  | 506.8  | 523.2  | 533.1  | 534.7  | 534.7  |
| 30°   | 4761.4 | 4184.1 | 1866.5 | 493.7  | 451.0  | 451.0  | 470.7  | 501.9  | 523.2  | 526.5  | 528.1  |
| 32.5° | 5122.2 | 4339.9 | 1477.8 | 444.5  | 416.6  | 413.3  | 431.4  | 469.1  | 508.5  | 519.9  | 519.9  |
| 35°   | 5568.4 | 4523.6 | 1098.9 | 413.3  | 392.0  | 383.8  | 393.6  | 424.8  | 475.6  | 508.5  | 511.7  |
| 37.5° | 6091.6 | 4697.4 | 803.7  | 385.4  | 369.0  | 357.6  | 364.1  | 388.7  | 429.7  | 478.9  | 492.0  |
| 40°   | 6575.4 | 4851.6 | 600.3  | 362.5  | 346.1  | 337.9  | 342.8  | 354.3  | 388.7  | 434.6  | 442.8  |
| 42.5° | 7103.6 | 4971.3 | 477.3  | 337.9  | 323.1  | 319.8  | 319.8  | 324.8  | 347.7  | 374.0  | 375.6  |
| 45°   | 7630.1 | 5014.0 | 400.2  | 308.4  | 298.5  | 301.8  | 300.2  | 296.9  | 306.7  | 303.4  | 303.4  |
| 47.5° | 8005.6 | 4963.1 | 331.3  | 280.5  | 280.5  | 285.4  | 277.2  | 265.7  | 260.8  | 241.1  | 242.7  |
| 50°   | 8263.2 | 4777.8 | 272.3  | 247.7  | 260.8  | 267.3  | 250.9  | 232.9  | 214.9  | 193.5  | 188.6  |
| 52.5° | 8369.8 | 4448.1 | 223.1  | 205.0  | 231.3  | 239.5  | 219.8  | 198.5  | 170.6  | 152.5  | 147.6  |
| 55°   | 8300.9 | 4041.4 | 185.3  | 167.3  | 195.2  | 205.0  | 185.3  | 160.7  | 129.6  | 109.9  | 106.6  |
| 57.5° | 7997.4 | 3555.9 | 157.5  | 132.9  | 155.8  | 162.4  | 149.3  | 123.0  | 91.8   | 72.2   | 72.2   |
| 60°   | 7472.6 | 3054.0 | 127.9  | 105.0  | 116.5  | 126.3  | 113.2  | 88.6   | 62.3   | 44.3   | 41.0   |
| 62.5° | 6408.1 | 2479.9 | 103.3  | 82.0   | 82.0   | 90.2   | 78.7   | 64.0   | 39.4   | 23.0   | 21.3   |
| 65°   | 4626.9 | 1700.9 | 82.0   | 60.7   | 59.0   | 59.0   | 49.2   | 42.6   | 23.0   | 9.8    | 6.6    |
| 67.5° | 2514.4 | 959.5  | 65.6   | 45.9   | 41.0   | 39.4   | 31.2   | 24.6   | 9.8    | 1.6    | 0.0    |
| 70°   | 989.0  | 369.0  | 50.8   | 31.2   | 26.2   | 24.6   | 16.4   | 11.5   | 6.6    | 0.0    | 0.0    |
| 71°   | 670.8  | 254.2  | 44.3   | 26.2   | 21.3   | 18.0   | 13.1   | 9.8    | 4.9    | 0.0    | 0.0    |
| 72.5° | 383.8  | 157.5  | 34.4   | 19.7   | 16.4   | 13.1   | 9.8    | 6.6    | 4.9    | 0.0    | 0.0    |
| 75°   | 167.3  | 80.4   | 21.3   | 14.8   | 11.5   | 8.2    | 6.6    | 4.9    | 1.6    | 0.0    | 0.0    |
| 77.5° | 85.3   | 44.3   | 14.8   | 11.5   | 6.6    | 4.9    | 3.3    | 1.6    | 0.0    | 0.0    | 0.0    |
| 80°   | 47.6   | 23.0   | 9.8    | 6.6    | 4.9    | 3.3    | 1.6    | 1.6    | 0.0    | 0.0    | 0.0    |
| 82.5° | 26.2   | 13.1   | 4.9    | 3.3    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 16.4   | 8.2    | 1.6    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 8.2    | 3.3    | 0.0    | 0.0    | 0.0    | 0.0    | 1.6    | 1.6    | 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)