

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: P453068

Luminaire Tested: **GLAN-SA4A-750-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453068  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4A-750-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18058 lumens  
Efficiency: N/A  
Efficacy: 149.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

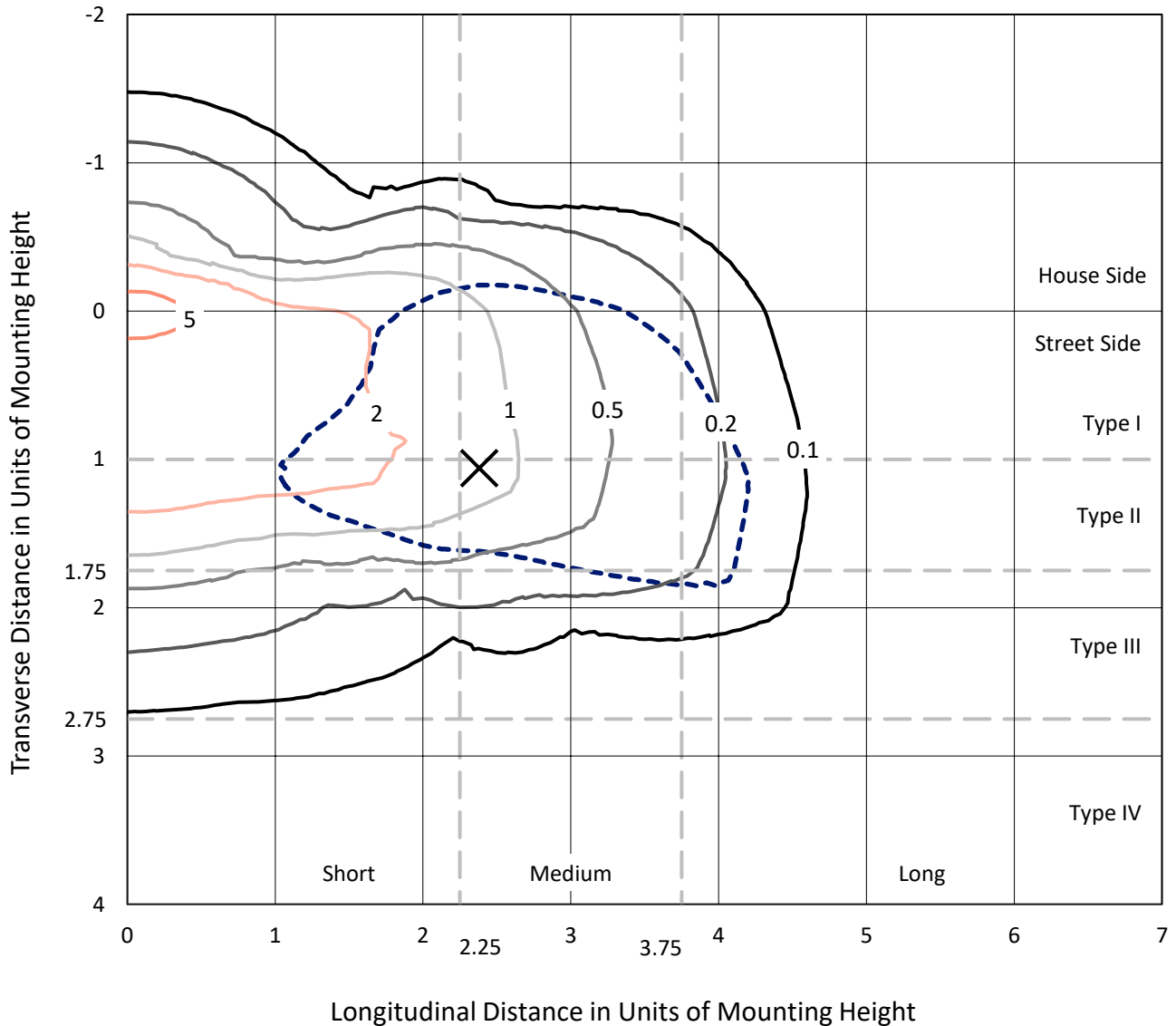
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

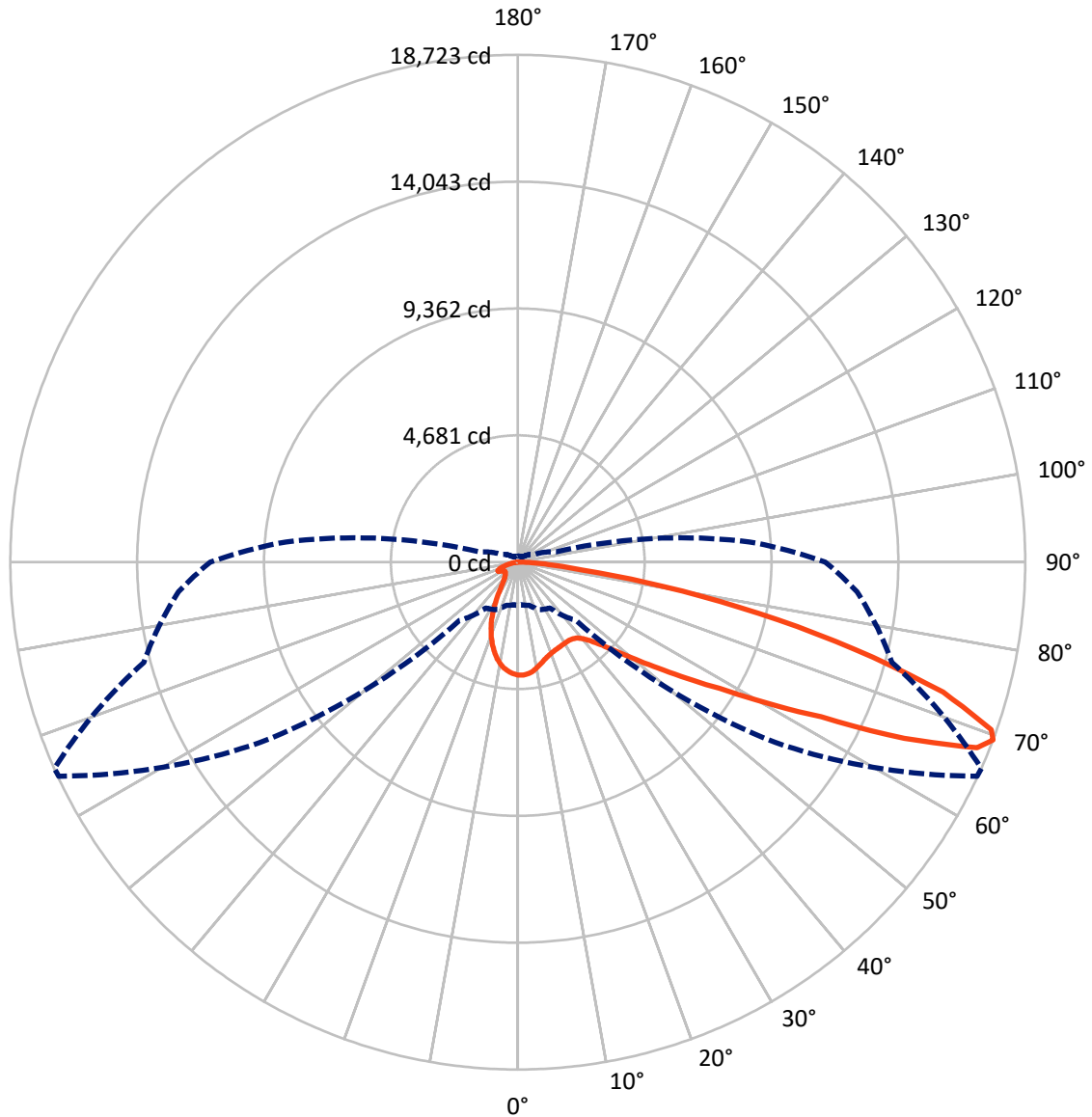
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3396.0   | 0.0    | 3396.0  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 14662.0  | 0.0    | 14662.0 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 18058.0  | 0.0    | 18058.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 362.1   | 2.0       |
| 10°-20°   | 858.9   | 4.8       |
| 20°-30°   | 1169.3  | 6.5       |
| 30°-40°   | 1571.3  | 8.7       |
| 40°-50°   | 2346.2  | 13.0      |
| 50°-60°   | 3732.1  | 20.7      |
| 60°-70°   | 4590.3  | 25.4      |
| 70°-80°   | 2986.6  | 16.5      |
| 80°-90°   | 441.0   | 2.4       |
| 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°    | 18058.0 | 100.0     |
| 0°-180°   | 18058.0 | 100.0     |



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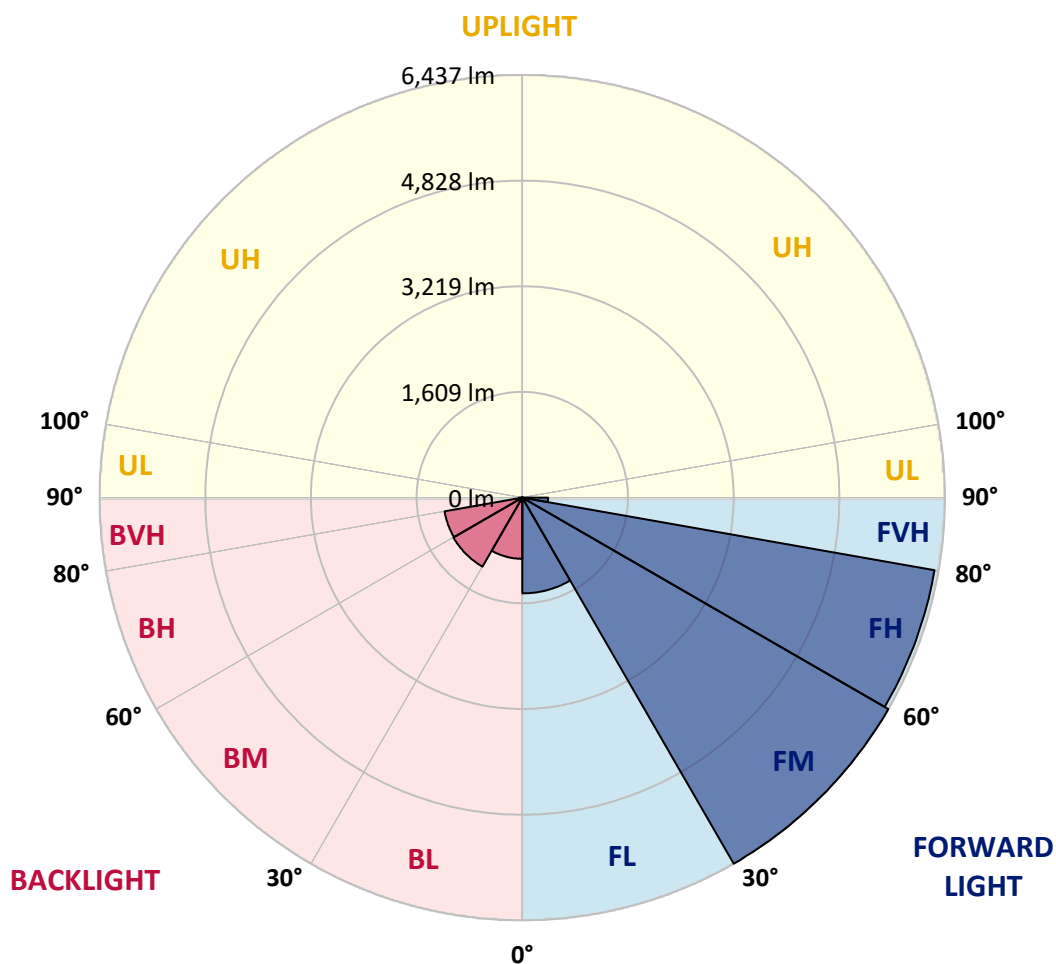
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1458.2 | 8.1       |                         |      |         |
| FM   | (30°-60°)   | 6437.1 | 35.6      |                         |      |         |
| FH   | (60°-80°)   | 6374.6 | 35.3      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 392.1  | 2.2       |                         |      | G3/500  |
| BL   | (0°-30°)    | 932.2  | 5.2       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1212.5 | 6.7       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1202.3 | 6.7       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 48.9   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0°    | 4170.1 | 4170.1 | 4170.1 | 4170.1 | 4170.1 | 4170.1  | 4170.1  | 4170.1  | 4170.1  | 4170.1  | 4170.1  |
| 2.5°  | 4024.1 | 4040.1 | 4058.1 | 4078.1 | 4116.1 | 4137.1  | 4152.1  | 4169.1  | 4171.1  | 4180.1  | 4173.1  |
| 5°    | 3727.1 | 3746.1 | 3773.1 | 3811.1 | 3868.1 | 3957.1  | 4049.1  | 4124.1  | 4133.1  | 4175.1  | 4187.1  |
| 7.5°  | 3479.1 | 3490.1 | 3512.1 | 3573.1 | 3654.1 | 3753.1  | 3887.1  | 4039.1  | 4061.1  | 4161.1  | 4196.1  |
| 10°   | 3277.1 | 3288.1 | 3314.1 | 3377.1 | 3457.1 | 3581.1  | 3728.1  | 3928.1  | 3946.1  | 4118.1  | 4198.1  |
| 12.5° | 3126.1 | 3136.1 | 3164.1 | 3226.1 | 3318.1 | 3434.1  | 3596.1  | 3808.1  | 3834.1  | 4061.1  | 4179.1  |
| 15°   | 3011.1 | 3030.1 | 3053.1 | 3104.1 | 3201.1 | 3313.1  | 3470.1  | 3698.1  | 3719.1  | 4001.1  | 4166.1  |
| 17.5° | 2962.1 | 2971.1 | 2987.1 | 3034.1 | 3105.1 | 3215.1  | 3373.1  | 3612.1  | 3637.1  | 3959.1  | 4163.1  |
| 20°   | 2964.1 | 2973.1 | 2976.1 | 3002.1 | 3053.1 | 3148.1  | 3304.1  | 3544.1  | 3574.1  | 3922.1  | 4168.1  |
| 22.5° | 3032.1 | 3033.1 | 3022.1 | 3013.1 | 3033.1 | 3112.1  | 3255.1  | 3493.1  | 3528.1  | 3906.1  | 4172.1  |
| 25°   | 3137.1 | 3155.1 | 3139.1 | 3097.1 | 3060.1 | 3098.1  | 3236.1  | 3465.1  | 3498.1  | 3883.1  | 4167.1  |
| 27.5° | 3307.1 | 3310.1 | 3297.1 | 3240.1 | 3144.1 | 3116.1  | 3228.1  | 3444.1  | 3472.1  | 3866.1  | 4142.1  |
| 30°   | 3535.1 | 3526.1 | 3514.1 | 3451.1 | 3300.1 | 3185.1  | 3245.1  | 3425.1  | 3454.1  | 3841.1  | 4112.1  |
| 32.5° | 3766.1 | 3794.1 | 3783.1 | 3709.1 | 3513.1 | 3319.1  | 3300.1  | 3423.1  | 3447.1  | 3822.1  | 4079.1  |
| 35°   | 4011.1 | 4024.1 | 4076.1 | 4038.1 | 3837.1 | 3536.1  | 3403.1  | 3454.1  | 3473.1  | 3823.1  | 4056.1  |
| 37.5° | 4203.1 | 4238.1 | 4360.1 | 4393.1 | 4204.1 | 3823.1  | 3570.1  | 3542.1  | 3550.1  | 3872.1  | 4065.1  |
| 40°   | 4435.1 | 4495.1 | 4652.1 | 4787.1 | 4663.1 | 4196.1  | 3854.1  | 3705.1  | 3715.1  | 3990.1  | 4124.1  |
| 42.5° | 4729.1 | 4771.1 | 4982.1 | 5165.1 | 5145.1 | 4689.1  | 4198.1  | 3972.1  | 3977.1  | 4225.1  | 4289.1  |
| 45°   | 5073.1 | 5133.1 | 5370.1 | 5645.1 | 5692.1 | 5247.1  | 4695.1  | 4376.1  | 4373.1  | 4590.1  | 4597.1  |
| 47.5° | 5513.1 | 5550.1 | 5785.1 | 6085.1 | 6275.1 | 5948.1  | 5298.1  | 4956.1  | 4924.1  | 5122.1  | 5065.1  |
| 50°   | 5918.1 | 5976.1 | 6154.1 | 6482.1 | 6955.2 | 6769.2  | 6091.1  | 5708.1  | 5633.1  | 5818.1  | 5722.1  |
| 52.5° | 6088.1 | 6149.1 | 6299.1 | 6706.2 | 7538.2 | 7831.2  | 7098.2  | 6605.1  | 6480.1  | 6622.1  | 6587.1  |
| 55°   | 5793.1 | 5872.1 | 6012.1 | 6507.1 | 7794.2 | 9056.2  | 8456.2  | 7642.2  | 7551.2  | 7490.2  | 7500.2  |
| 57.5° | 5000.1 | 5075.1 | 5264.1 | 5810.1 | 7488.2 | 9945.2  | 10395.2 | 8975.2  | 8780.2  | 8499.2  | 8547.2  |
| 60°   | 3806.1 | 3853.1 | 3951.1 | 4556.1 | 6581.1 | 10176.2 | 12597.3 | 10660.2 | 10536.2 | 9504.2  | 9538.2  |
| 62.5° | 2703.1 | 2756.1 | 2824.1 | 3126.1 | 4818.1 | 9525.2  | 14321.3 | 13013.3 | 12570.3 | 10545.2 | 10512.2 |
| 65°   | 2195.0 | 2159.0 | 2241.1 | 2382.1 | 2827.1 | 7382.2  | 14709.3 | 16279.4 | 15669.4 | 11916.3 | 11458.3 |
| 67.5° | 1805.0 | 1767.0 | 1848.0 | 2099.0 | 2150.0 | 4285.1  | 13311.3 | 18399.4 | 18277.4 | 13407.3 | 12419.3 |
| 69°   | 1598.0 | 1578.0 | 1649.0 | 1935.0 | 2064.0 | 3043.1  | 11596.3 | 18694.4 | 18723.4 | 14286.3 | 12567.3 |
| 70°   | 1440.0 | 1448.0 | 1517.0 | 1852.0 | 2025.0 | 2509.1  | 9911.2  | 18287.4 | 18533.4 | 14725.3 | 12407.3 |
| 72.5° | 1060.0 | 1077.0 | 1173.0 | 1534.0 | 1988.0 | 2129.0  | 5898.1  | 15973.4 | 16408.4 | 14751.3 | 11350.3 |
| 75°   | 741.0  | 733.0  | 818.0  | 1155.0 | 1878.0 | 2110.0  | 3464.1  | 12353.3 | 12846.3 | 12750.3 | 9537.2  |
| 77.5° | 485.0  | 498.0  | 566.0  | 816.0  | 1580.0 | 2094.0  | 2258.1  | 8764.2  | 9084.2  | 8527.2  | 5641.1  |
| 80°   | 342.0  | 341.0  | 379.0  | 557.0  | 1172.0 | 2012.0  | 1849.0  | 5524.1  | 5443.1  | 3351.1  | 1673.0  |
| 82.5° | 196.0  | 210.0  | 254.0  | 392.0  | 784.0  | 1771.0  | 1701.0  | 2642.1  | 2412.1  | 955.0   | 565.0   |
| 85°   | 109.0  | 114.0  | 151.0  | 237.0  | 458.0  | 1334.0  | 1485.0  | 1202.0  | 1134.0  | 399.0   | 243.0   |
| 87.5° | 35.0   | 38.0   | 63.0   | 120.0  | 208.0  | 630.0   | 841.0   | 555.0   | 512.0   | 144.0   | 98.0    |
| 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°    | 4170.1  | 4170.1 | 4170.1 | 4170.1 | 4170.1 | 4170.1 | 4170.1 | 4170.1 | 4170.1 | 4170.1 | 4170.1 |
| 2.5°  | 4176.1  | 4188.1 | 4156.1 | 4125.1 | 4097.1 | 4058.1 | 4023.1 | 3994.1 | 3974.1 | 3971.1 | 3961.1 |
| 5°    | 4190.1  | 4191.1 | 4130.1 | 4048.1 | 3968.1 | 3880.1 | 3789.1 | 3724.1 | 3663.1 | 3629.1 | 3612.1 |
| 7.5°  | 4200.1  | 4191.1 | 4081.1 | 3948.1 | 3794.1 | 3634.1 | 3474.1 | 3346.1 | 3247.1 | 3208.1 | 3223.1 |
| 10°   | 4196.1  | 4168.1 | 4007.1 | 3794.1 | 3570.1 | 3331.1 | 3101.1 | 2921.1 | 2756.1 | 2671.1 | 2673.1 |
| 12.5° | 4174.1  | 4128.1 | 3897.1 | 3621.1 | 3292.1 | 2972.1 | 2620.1 | 2377.1 | 2186.0 | 2073.0 | 2038.0 |
| 15°   | 4155.1  | 4075.1 | 3768.1 | 3386.1 | 2977.1 | 2520.1 | 2091.0 | 1791.0 | 1631.0 | 1542.0 | 1541.0 |
| 17.5° | 4135.1  | 4024.1 | 3627.1 | 3137.1 | 2615.1 | 2027.0 | 1577.0 | 1348.0 | 1273.0 | 1282.0 | 1267.0 |
| 20°   | 4114.1  | 3964.1 | 3480.1 | 2860.1 | 2174.0 | 1512.0 | 1181.0 | 1088.0 | 1109.0 | 1150.0 | 1156.0 |
| 22.5° | 4090.1  | 3900.1 | 3322.1 | 2555.1 | 1710.0 | 1138.0 | 958.0  | 944.0  | 998.0  | 1062.0 | 1071.0 |
| 25°   | 4053.1  | 3820.1 | 3123.1 | 2236.1 | 1319.0 | 917.0  | 839.0  | 849.0  | 902.0  | 956.0  | 962.0  |
| 27.5° | 4001.1  | 3721.1 | 2922.1 | 1838.0 | 991.0  | 787.0  | 767.0  | 780.0  | 806.0  | 839.0  | 847.0  |
| 30°   | 3931.1  | 3609.1 | 2691.1 | 1494.0 | 794.0  | 722.0  | 714.0  | 721.0  | 736.0  | 750.0  | 754.0  |
| 32.5° | 3861.1  | 3501.1 | 2458.1 | 1144.0 | 708.0  | 679.0  | 671.0  | 671.0  | 671.0  | 673.0  | 674.0  |
| 35°   | 3796.1  | 3399.1 | 2208.0 | 891.0  | 663.0  | 645.0  | 634.0  | 622.0  | 620.0  | 613.0  | 613.0  |
| 37.5° | 3760.1  | 3306.1 | 1942.0 | 746.0  | 630.0  | 617.0  | 602.0  | 582.0  | 571.0  | 572.0  | 570.0  |
| 40°   | 3767.1  | 3245.1 | 1700.0 | 664.0  | 603.0  | 589.0  | 566.0  | 543.0  | 536.0  | 536.0  | 534.0  |
| 42.5° | 3846.1  | 3225.1 | 1468.0 | 621.0  | 577.0  | 561.0  | 532.0  | 511.0  | 507.0  | 506.0  | 508.0  |
| 45°   | 4028.1  | 3274.1 | 1260.0 | 593.0  | 555.0  | 531.0  | 502.0  | 483.0  | 479.0  | 479.0  | 478.0  |
| 47.5° | 4383.1  | 3433.1 | 1111.0 | 575.0  | 539.0  | 508.0  | 478.0  | 459.0  | 452.0  | 450.0  | 450.0  |
| 50°   | 4935.1  | 3778.1 | 1000.0 | 559.0  | 519.0  | 487.0  | 456.0  | 434.0  | 423.0  | 422.0  | 421.0  |
| 52.5° | 5702.1  | 4316.1 | 957.0  | 547.0  | 497.0  | 465.0  | 431.0  | 410.0  | 396.0  | 393.0  | 391.0  |
| 55°   | 6599.1  | 5067.1 | 1016.0 | 538.0  | 474.0  | 440.0  | 405.0  | 383.0  | 370.0  | 364.0  | 363.0  |
| 57.5° | 7638.2  | 5969.1 | 1240.0 | 526.0  | 453.0  | 413.0  | 379.0  | 357.0  | 343.0  | 336.0  | 334.0  |
| 60°   | 8571.2  | 6896.2 | 1631.0 | 519.0  | 435.0  | 384.0  | 349.0  | 329.0  | 316.0  | 309.0  | 308.0  |
| 62.5° | 9596.2  | 7780.2 | 2098.0 | 538.0  | 427.0  | 356.0  | 321.0  | 303.0  | 292.0  | 285.0  | 285.0  |
| 65°   | 10691.2 | 8665.2 | 2407.1 | 602.0  | 439.0  | 334.0  | 291.0  | 276.0  | 266.0  | 261.0  | 260.0  |
| 67.5° | 11429.3 | 8971.2 | 1983.0 | 668.0  | 469.0  | 310.0  | 262.0  | 250.0  | 244.0  | 239.0  | 239.0  |
| 69°   | 11349.3 | 8584.2 | 1463.0 | 685.0  | 478.0  | 298.0  | 246.0  | 237.0  | 229.0  | 227.0  | 225.0  |
| 70°   | 11096.2 | 8143.2 | 1226.0 | 674.0  | 471.0  | 287.0  | 236.0  | 225.0  | 218.0  | 216.0  | 215.0  |
| 72.5° | 9883.2  | 7062.2 | 913.0  | 586.0  | 401.0  | 249.0  | 209.0  | 199.0  | 193.0  | 190.0  | 190.0  |
| 75°   | 8211.2  | 5772.1 | 713.0  | 466.0  | 314.0  | 210.0  | 179.0  | 171.0  | 166.0  | 164.0  | 163.0  |
| 77.5° | 4602.1  | 3223.1 | 512.0  | 365.0  | 238.0  | 170.0  | 150.0  | 143.0  | 138.0  | 136.0  | 136.0  |
| 80°   | 1282.0  | 921.0  | 301.0  | 241.0  | 162.0  | 129.0  | 119.0  | 114.0  | 107.0  | 102.0  | 105.0  |
| 82.5° | 483.0   | 399.0  | 172.0  | 145.0  | 103.0  | 86.0   | 83.0   | 79.0   | 76.0   | 69.0   | 69.0   |
| 85°   | 235.0   | 194.0  | 110.0  | 77.0   | 57.0   | 45.0   | 43.0   | 41.0   | 39.0   | 34.0   | 35.0   |
| 87.5° | 81.0    | 86.0   | 48.0   | 28.0   | 17.0   | 11.0   | 9.0    | 5.0    | 5.0    | 5.0    | 5.0    |
| 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)