

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: P454029

Luminaire Tested: **GLAN-SA5A-760-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454029  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5A-760-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22417 lumens  
Efficiency: N/A  
Efficacy: 145.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

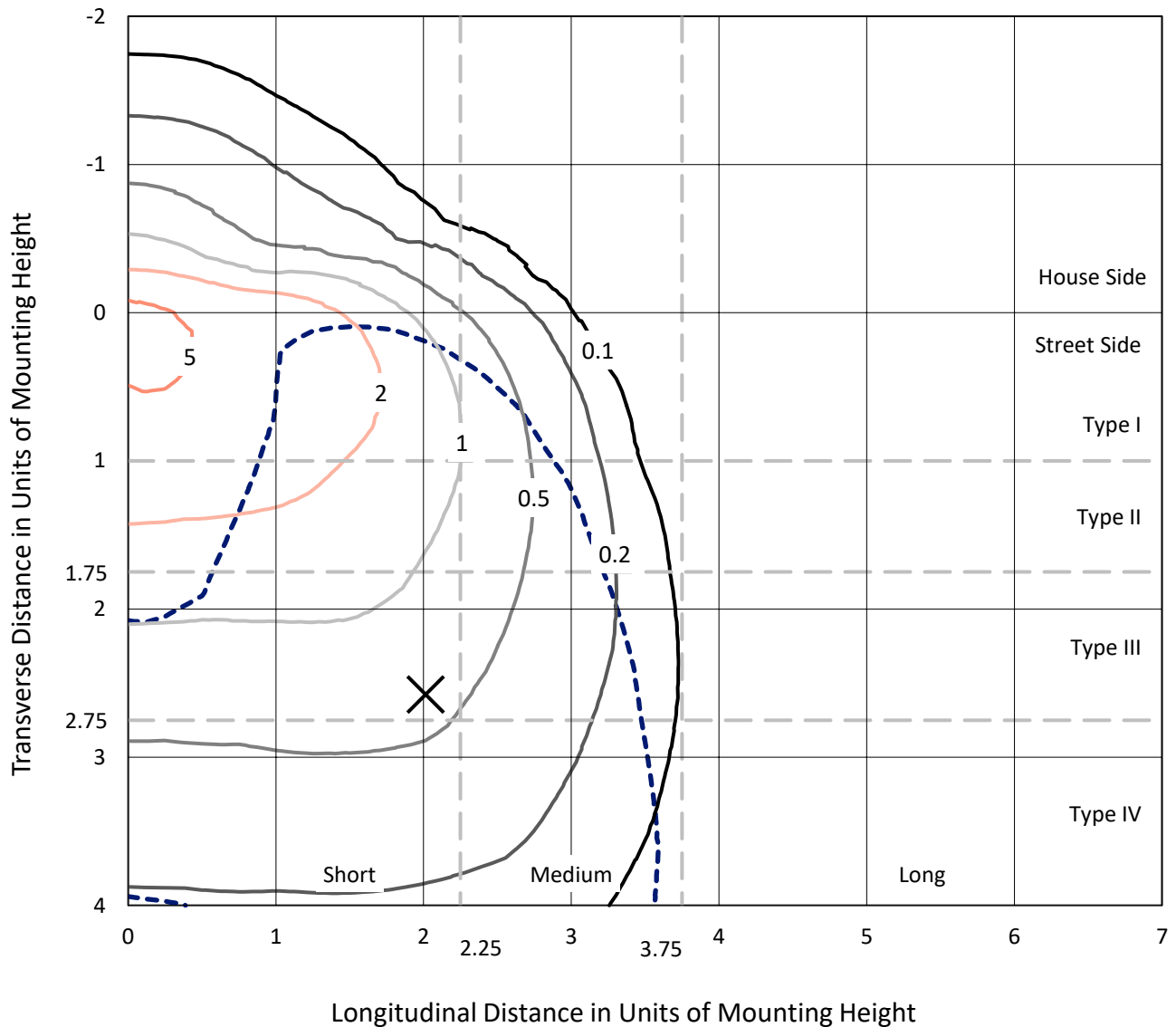
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

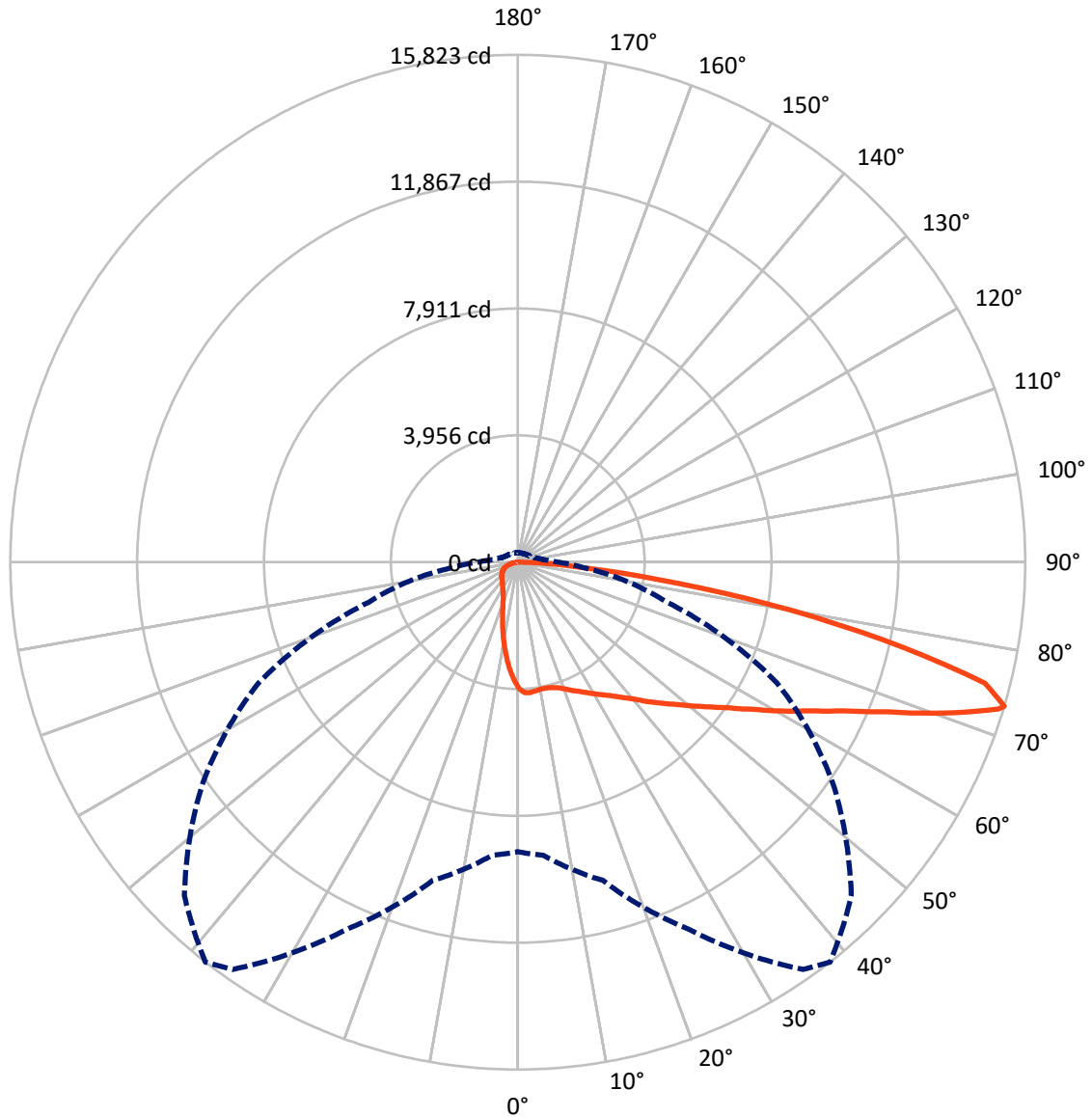
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3013.5   | 0.0    | 3013.5  |
|                    | % Fixture | 13.4     | 0.0    | 13.4    |
| <b>Street Side</b> | Lumens    | 19403.5  | 0.0    | 19403.5 |
|                    | % Fixture | 86.6     | 0.0    | 86.6    |
| <b>Total</b>       | Lumens    | 22417.0  | 0.0    | 22417.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 343.8   | 1.5       |
| 10°-20°   | 881.5   | 3.9       |
| 20°-30°   | 1372.7  | 6.1       |
| 30°-40°   | 2013.5  | 9.0       |
| 40°-50°   | 2986.7  | 13.3      |
| 50°-60°   | 4231.6  | 18.9      |
| 60°-70°   | 5368.0  | 23.9      |
| 70°-80°   | 4468.4  | 19.9      |
| 80°-90°   | 750.8   | 3.3       |
| 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°    | 22417.0 | 100.0     |
| 0°-180°   | 22417.0 | 100.0     |

**Coefficient of Utilization**



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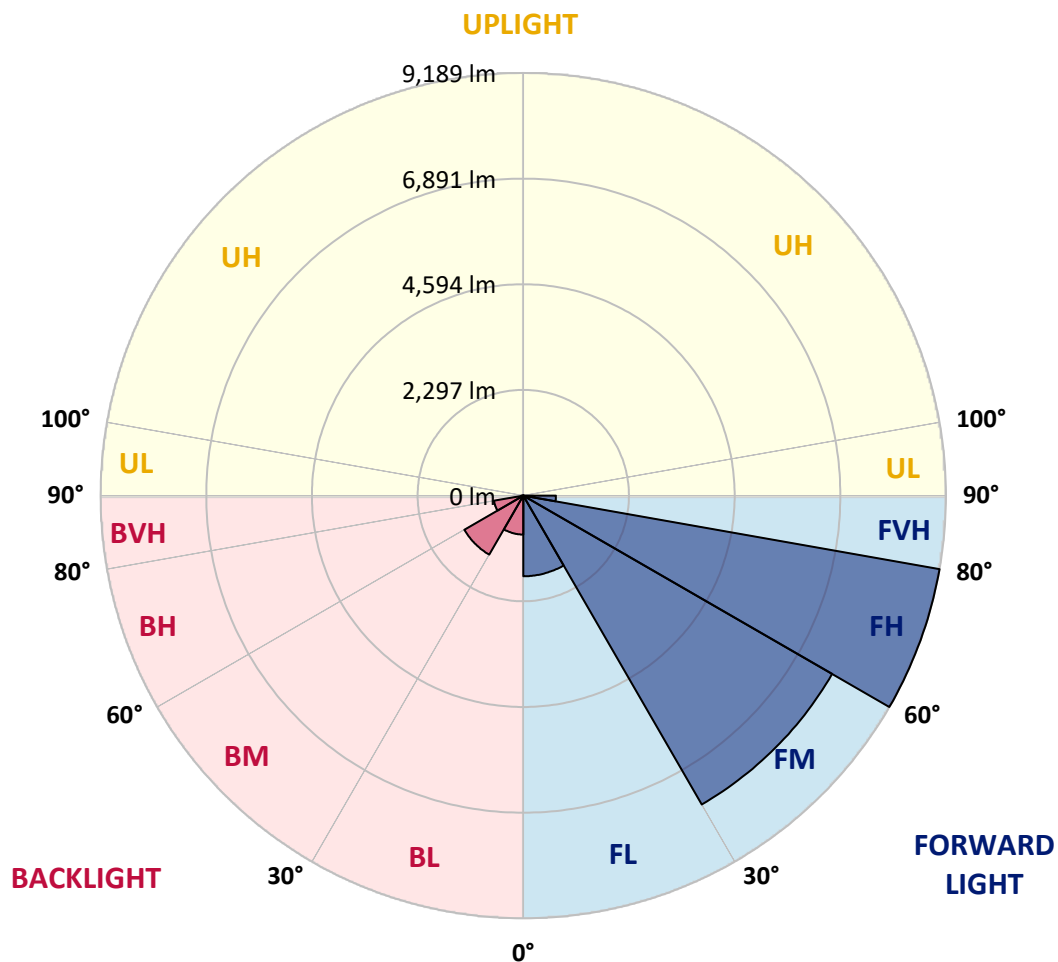
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1752.4 | 7.8       |                         |      |          |
| FM (30°-60°)   | 7752.4 | 34.6      |                         |      |          |
| FH (60°-80°)   | 9188.6 | 41.0      |                         |      | G4/12000 |
| FVH (80°-90°)  | 710.1  | 3.2       |                         |      | G4/750   |
| BL (0°-30°)    | 845.6  | 3.8       | B2/1000                 |      |          |
| BM (30°-60°)   | 1479.5 | 6.6       | B2/2500                 |      |          |
| BH (60°-80°)   | 647.7  | 2.9       | B2/1000                 |      | G2/1000  |
| BVH (80°-90°)  | 40.7   | 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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°     | 25°     | 35°     | 38°     | 45°     | 55°     | 65°     | 75°     | 85°    |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 3938.3 | 3938.3 | 3938.3  | 3938.3  | 3938.3  | 3938.3  | 3938.3  | 3938.3  | 3938.3  | 3938.3  | 3938.3 |
| 2.5°  | 4096.5 | 4116.8 | 4106.7  | 4092.7  | 4083.9  | 4075.0  | 4062.3  | 4025.6  | 3996.5  | 3964.9  | 3915.5 |
| 5°    | 4126.9 | 4139.6 | 4130.7  | 4113.0  | 4092.7  | 4083.9  | 4059.8  | 4011.7  | 3964.9  | 3911.7  | 3838.3 |
| 7.5°  | 4109.2 | 4114.3 | 4104.1  | 4082.6  | 4064.9  | 4048.4  | 4020.6  | 3967.4  | 3910.4  | 3845.9  | 3749.7 |
| 10°   | 4045.9 | 4064.9 | 4064.9  | 4047.2  | 4029.4  | 4020.6  | 3992.7  | 3942.1  | 3890.2  | 3816.8  | 3702.8 |
| 12.5° | 3994.0 | 4014.2 | 4030.7  | 4025.6  | 4024.4  | 4024.4  | 4002.8  | 3964.9  | 3904.1  | 3834.5  | 3699.0 |
| 15°   | 3958.5 | 3982.6 | 4018.0  | 4038.3  | 4051.0  | 4054.8  | 4045.9  | 4013.0  | 3950.9  | 3869.9  | 3714.2 |
| 17.5° | 3950.9 | 3980.1 | 4044.6  | 4088.9  | 4121.8  | 4120.6  | 4118.0  | 4072.5  | 4004.1  | 3920.6  | 3733.2 |
| 20°   | 3985.1 | 4023.1 | 4113.0  | 4182.6  | 4230.7  | 4221.9  | 4207.9  | 4148.4  | 4068.7  | 3975.0  | 3750.9 |
| 22.5° | 4087.7 | 4126.9 | 4225.7  | 4301.6  | 4348.4  | 4348.4  | 4306.7  | 4228.2  | 4143.4  | 4038.3  | 3775.0 |
| 25°   | 4234.5 | 4277.6 | 4382.6  | 4459.8  | 4481.4  | 4464.9  | 4423.1  | 4328.2  | 4230.7  | 4129.4  | 3825.6 |
| 27.5° | 4414.3 | 4466.2 | 4563.7  | 4628.2  | 4621.9  | 4609.2  | 4566.2  | 4444.7  | 4347.2  | 4254.8  | 3911.7 |
| 30°   | 4638.3 | 4676.3 | 4777.6  | 4792.8  | 4770.0  | 4767.5  | 4706.7  | 4585.2  | 4494.0  | 4423.1  | 4034.5 |
| 32.5° | 4849.8 | 4883.9 | 4965.0  | 4971.3  | 4930.8  | 4935.8  | 4878.9  | 4767.5  | 4715.6  | 4690.2  | 4240.8 |
| 35°   | 5073.8 | 5091.5 | 5161.2  | 5153.6  | 5127.0  | 5123.2  | 5100.4  | 4994.1  | 5010.5  | 5056.1  | 4533.3 |
| 37.5° | 5261.2 | 5296.6 | 5335.9  | 5342.2  | 5340.9  | 5353.6  | 5368.8  | 5318.1  | 5413.1  | 5556.1  | 4916.8 |
| 40°   | 5433.3 | 5463.7 | 5522.0  | 5542.2  | 5591.6  | 5616.9  | 5668.8  | 5670.1  | 5889.1  | 6124.5  | 5389.0 |
| 42.5° | 5549.8 | 5601.7 | 5710.6  | 5747.3  | 5867.6  | 5943.5  | 6020.7  | 6103.0  | 6420.8  | 6723.3  | 5946.0 |
| 45°   | 5651.1 | 5719.4 | 5900.5  | 6014.4  | 6177.7  | 6270.1  | 6433.4  | 6605.6  | 7062.6  | 7458.8  | 6511.9 |
| 47.5° | 5804.3 | 5865.0 | 6072.6  | 6273.9  | 6520.8  | 6627.1  | 6871.4  | 7128.4  | 7725.9  | 8160.1  | 7053.7 |
| 50°   | 6016.9 | 6053.6 | 6265.1  | 6592.9  | 6908.1  | 7044.9  | 7367.7  | 7738.6  | 8434.8  | 8852.6  | 7529.7 |
| 52.5° | 6289.1 | 6304.3 | 6472.7  | 6909.4  | 7324.6  | 7494.3  | 7922.1  | 8355.1  | 9055.1  | 9453.9  | 7907.0 |
| 55°   | 6610.7 | 6585.3 | 6717.0  | 7244.9  | 7800.6  | 8022.2  | 8481.7  | 8979.2  | 9752.7  | 9940.0  | 8181.7 |
| 57.5° | 6928.4 | 6889.2 | 6994.2  | 7652.5  | 8388.0  | 8655.1  | 9190.6  | 9622.3  | 10375.5 | 10394.5 | 8374.1 |
| 60°   | 7265.1 | 7236.0 | 7361.3  | 8131.0  | 9108.3  | 9424.8  | 9919.8  | 10289.4 | 10978.1 | 10711.0 | 8404.5 |
| 62.5° | 7610.7 | 7563.9 | 7742.4  | 8669.0  | 9919.8  | 10207.1 | 10686.9 | 10998.3 | 11569.3 | 10828.7 | 8112.0 |
| 65°   | 7946.2 | 7924.7 | 8200.7  | 9308.3  | 10843.9 | 11170.5 | 11636.4 | 11847.8 | 12042.7 | 10651.5 | 7386.7 |
| 67.5° | 8303.2 | 8346.2 | 8786.8  | 10161.6 | 12049.1 | 12459.2 | 12961.8 | 12763.0 | 12178.2 | 9812.2  | 6220.7 |
| 70°   | 8847.5 | 8875.4 | 9556.5  | 11279.4 | 13602.3 | 14097.3 | 14340.4 | 13088.4 | 11525.0 | 8218.4  | 4676.3 |
| 72.5° | 9081.7 | 9204.5 | 10243.9 | 12452.9 | 15367.0 | 15669.6 | 14803.7 | 12363.0 | 9600.8  | 5582.7  | 2457.2 |
| 73°   | 9029.8 | 9176.7 | 10275.5 | 12631.4 | 15505.0 | 15822.8 | 14705.0 | 11989.6 | 8924.8  | 4808.0  | 2106.5 |
| 75°   | 8382.9 | 8564.0 | 9864.1  | 12482.0 | 15236.7 | 15046.8 | 13117.5 | 10218.5 | 6030.9  | 2186.2  | 959.6  |
| 77.5° | 6614.4 | 6666.4 | 7815.8  | 10079.3 | 11998.4 | 11646.5 | 9817.2  | 6386.6  | 2463.5  | 812.7   | 544.3  |
| 80°   | 3318.0 | 3509.1 | 4405.4  | 5773.9  | 8023.4  | 7908.2  | 6196.7  | 3020.5  | 1026.7  | 477.3   | 360.8  |
| 82.5° | 1596.3 | 1731.8 | 2145.7  | 2815.4  | 4433.3  | 4328.2  | 3068.6  | 1650.8  | 652.0   | 278.5   | 212.7  |
| 85°   | 1027.9 | 1129.2 | 1365.9  | 1343.1  | 1822.9  | 1740.6  | 1378.6  | 1249.5  | 386.1   | 145.6   | 148.1  |
| 87.5° | 678.5  | 743.1  | 891.2   | 712.7   | 663.3   | 600.0   | 608.9   | 703.9   | 76.0    | 55.7    | 20.3   |
| 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°    | 3938.3 | 3938.3 | 3938.3 | 3938.3 | 3938.3 | 3938.3 | 3938.3 | 3938.3 | 3938.3 | 3938.3 | 3938.3 |
| 2.5°  | 3895.2 | 3878.8 | 3824.4 | 3771.2 | 3720.5 | 3672.4 | 3640.8 | 3599.0 | 3571.2 | 3578.8 | 3590.2 |
| 5°    | 3797.8 | 3761.1 | 3664.8 | 3571.2 | 3482.6 | 3377.5 | 3292.7 | 3224.3 | 3172.4 | 3153.4 | 3149.6 |
| 7.5°  | 3695.2 | 3633.2 | 3495.2 | 3334.4 | 3183.8 | 3053.4 | 2902.8 | 2828.1 | 2740.7 | 2710.3 | 2700.2 |
| 10°   | 3633.2 | 3549.6 | 3356.0 | 3131.9 | 2905.3 | 2688.8 | 2525.5 | 2392.6 | 2272.3 | 2249.5 | 2238.2 |
| 12.5° | 3615.5 | 3505.3 | 3244.6 | 2955.9 | 2654.6 | 2388.8 | 2147.0 | 1972.3 | 1855.8 | 1829.3 | 1790.0 |
| 15°   | 3605.3 | 3468.6 | 3140.8 | 2778.7 | 2396.4 | 2072.3 | 1817.9 | 1614.1 | 1507.7 | 1436.8 | 1438.1 |
| 17.5° | 3596.5 | 3426.9 | 3024.3 | 2585.0 | 2173.6 | 1800.1 | 1519.1 | 1335.5 | 1238.1 | 1200.1 | 1196.3 |
| 20°   | 3583.8 | 3377.5 | 2890.1 | 2381.2 | 1919.1 | 1552.0 | 1297.6 | 1160.9 | 1095.0 | 1063.4 | 1062.1 |
| 22.5° | 3578.8 | 3329.4 | 2758.4 | 2173.6 | 1693.8 | 1360.9 | 1150.7 | 1054.5 | 1012.7 | 991.2  | 991.2  |
| 25°   | 3591.4 | 3295.2 | 2620.5 | 1976.1 | 1493.8 | 1197.6 | 1049.5 | 983.6  | 959.6  | 948.2  | 944.4  |
| 27.5° | 3630.7 | 3280.0 | 2483.7 | 1778.6 | 1310.2 | 1086.2 | 981.1  | 935.5  | 917.8  | 908.9  | 910.2  |
| 30°   | 3705.4 | 3278.7 | 2349.6 | 1583.7 | 1173.5 | 1001.3 | 926.7  | 895.0  | 881.1  | 876.0  | 874.8  |
| 32.5° | 3825.6 | 3306.6 | 2217.9 | 1422.9 | 1058.3 | 930.5  | 876.0  | 853.2  | 846.9  | 843.1  | 841.8  |
| 35°   | 4029.4 | 3385.1 | 2087.5 | 1276.1 | 969.7  | 867.2  | 827.9  | 816.5  | 807.7  | 811.5  | 812.7  |
| 37.5° | 4304.1 | 3520.5 | 1963.4 | 1160.9 | 902.6  | 820.3  | 787.4  | 777.3  | 772.2  | 776.0  | 779.8  |
| 40°   | 4672.5 | 3715.5 | 1859.6 | 1068.4 | 854.5  | 781.1  | 752.0  | 743.1  | 738.0  | 744.4  | 745.6  |
| 42.5° | 5078.9 | 3940.8 | 1773.6 | 996.3  | 815.3  | 748.2  | 720.3  | 710.2  | 706.4  | 710.2  | 711.4  |
| 45°   | 5496.6 | 4202.9 | 1729.3 | 944.4  | 782.3  | 724.1  | 695.0  | 683.6  | 674.7  | 672.2  | 676.0  |
| 47.5° | 5908.1 | 4430.7 | 1728.0 | 912.7  | 755.8  | 702.6  | 670.9  | 658.3  | 646.9  | 640.6  | 639.3  |
| 50°   | 6243.5 | 4611.8 | 1758.4 | 898.8  | 733.0  | 678.5  | 646.9  | 634.2  | 619.0  | 606.4  | 608.9  |
| 52.5° | 6496.7 | 4729.5 | 1772.3 | 892.5  | 720.3  | 653.2  | 621.6  | 610.2  | 592.5  | 576.0  | 576.0  |
| 55°   | 6660.0 | 4757.3 | 1738.1 | 886.1  | 710.2  | 626.6  | 592.5  | 582.3  | 564.6  | 548.1  | 548.1  |
| 57.5° | 6715.7 | 4671.3 | 1615.3 | 871.0  | 700.1  | 603.8  | 563.3  | 554.5  | 540.5  | 524.1  | 521.6  |
| 60°   | 6586.6 | 4380.1 | 1400.1 | 825.4  | 679.8  | 579.8  | 531.7  | 527.9  | 522.8  | 508.9  | 507.6  |
| 62.5° | 6089.1 | 3762.3 | 1165.9 | 765.9  | 645.6  | 554.5  | 502.6  | 508.9  | 512.7  | 505.1  | 503.8  |
| 65°   | 5261.2 | 3054.7 | 996.3  | 683.6  | 600.0  | 519.0  | 470.9  | 487.4  | 497.5  | 497.5  | 495.0  |
| 67.5° | 4267.4 | 2345.8 | 839.3  | 612.7  | 543.1  | 470.9  | 435.5  | 448.1  | 455.7  | 453.2  | 459.5  |
| 70°   | 3033.2 | 1588.7 | 683.6  | 531.7  | 470.9  | 416.5  | 389.9  | 389.9  | 384.8  | 382.3  | 382.3  |
| 72.5° | 1471.0 | 907.7  | 554.5  | 444.3  | 401.3  | 355.7  | 334.2  | 325.3  | 315.2  | 313.9  | 307.6  |
| 73°   | 1229.2 | 814.0  | 529.2  | 427.9  | 384.8  | 346.9  | 322.8  | 308.9  | 302.6  | 297.5  | 296.2  |
| 75°   | 748.2  | 617.8  | 441.8  | 360.8  | 327.9  | 298.8  | 277.2  | 264.6  | 258.2  | 254.5  | 253.2  |
| 77.5° | 492.4  | 460.8  | 343.1  | 276.0  | 250.7  | 232.9  | 224.1  | 211.4  | 207.6  | 202.5  | 202.5  |
| 80°   | 367.1  | 351.9  | 245.6  | 195.0  | 179.8  | 164.6  | 162.0  | 159.5  | 149.4  | 143.0  | 140.5  |
| 82.5° | 236.7  | 250.7  | 167.1  | 130.4  | 113.9  | 101.3  | 102.5  | 106.3  | 96.2   | 87.3   | 84.8   |
| 85°   | 168.4  | 181.0  | 101.3  | 59.5   | 48.1   | 41.8   | 46.8   | 41.8   | 43.0   | 34.2   | 27.9   |
| 87.5° | 27.9   | 48.1   | 17.7   | 7.6    | 3.8    | 2.5    | 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)