

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: P457621

Luminaire Tested: **GLAN-SA9A-727-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457621  
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-SA9A-727-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 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: 34609 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

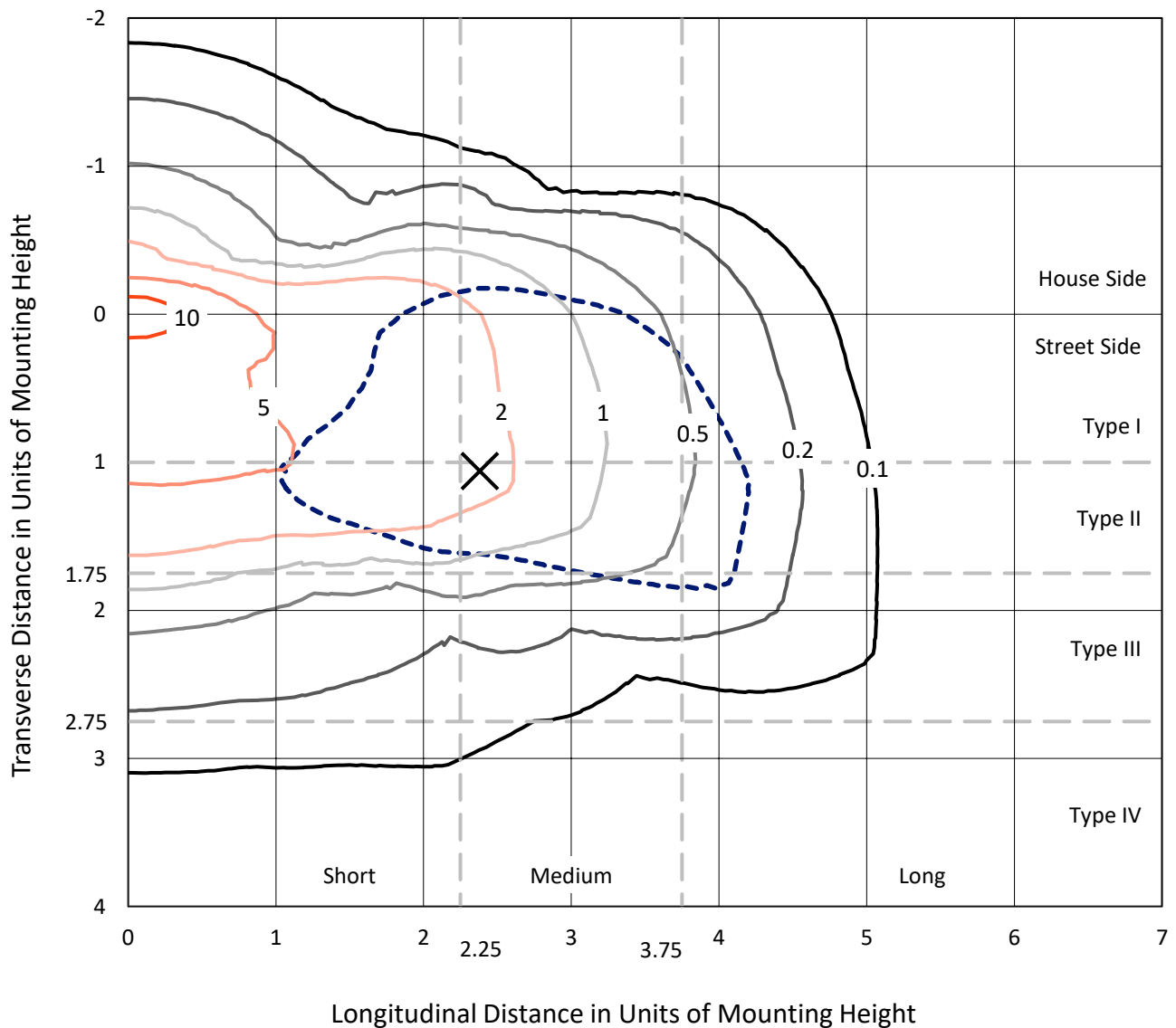
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

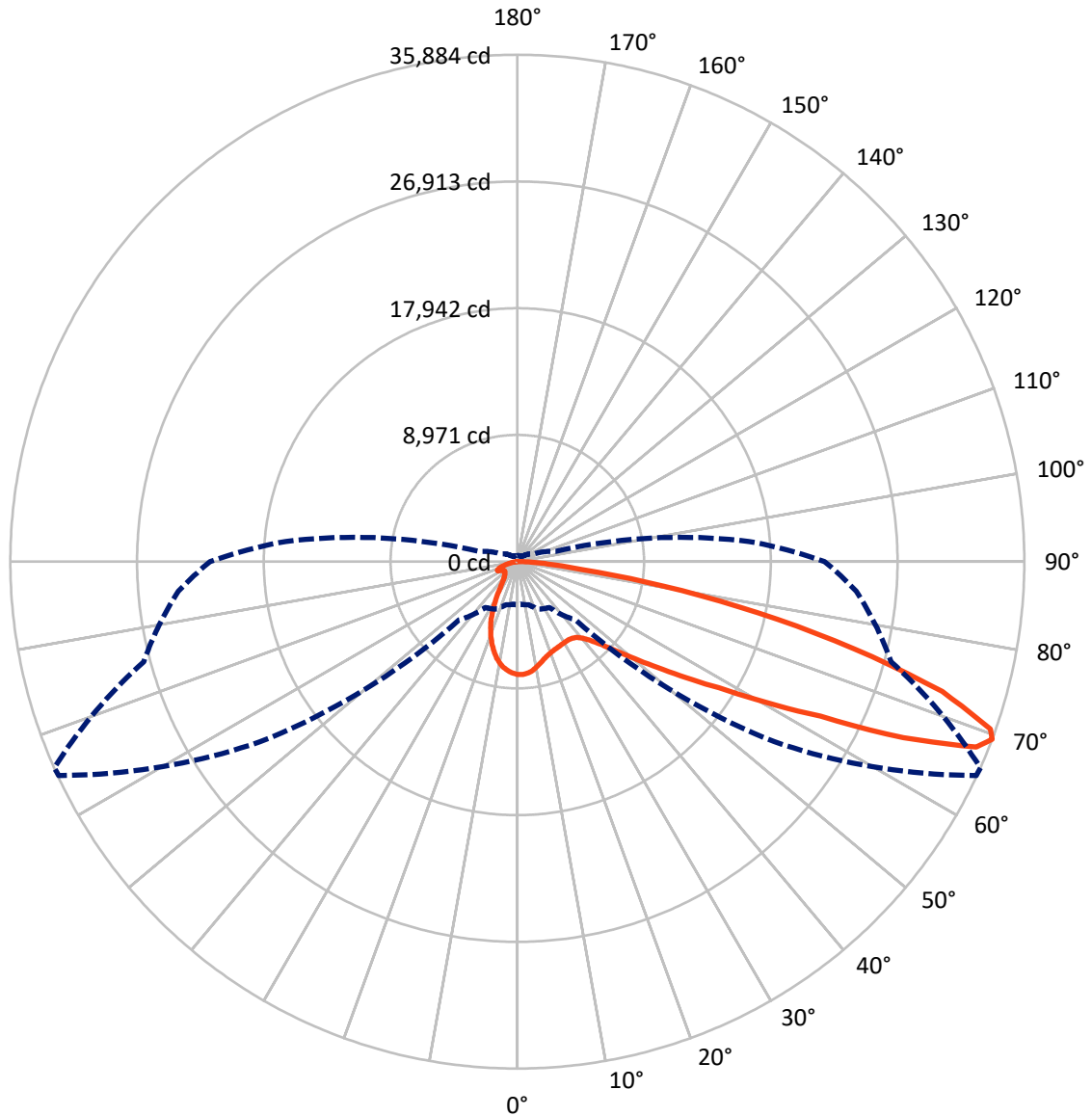
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 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    | 6508.7   | 0.0    | 6508.7  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 28100.4  | 0.0    | 28100.4 |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 34609.0  | 0.0    | 34609.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 694.0   | 2.0       |
| 10°-20°   | 1646.2  | 4.8       |
| 20°-30°   | 2241.1  | 6.5       |
| 30°-40°   | 3011.5  | 8.7       |
| 40°-50°   | 4496.7  | 13.0      |
| 50°-60°   | 7152.7  | 20.7      |
| 60°-70°   | 8797.5  | 25.4      |
| 70°-80°   | 5724.0  | 16.5      |
| 80°-90°   | 845.3   | 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°    | 34609.0 | 100.0     |
| 0°-180°   | 34609.0 | 100.0     |

**Coefficient of Utilization**



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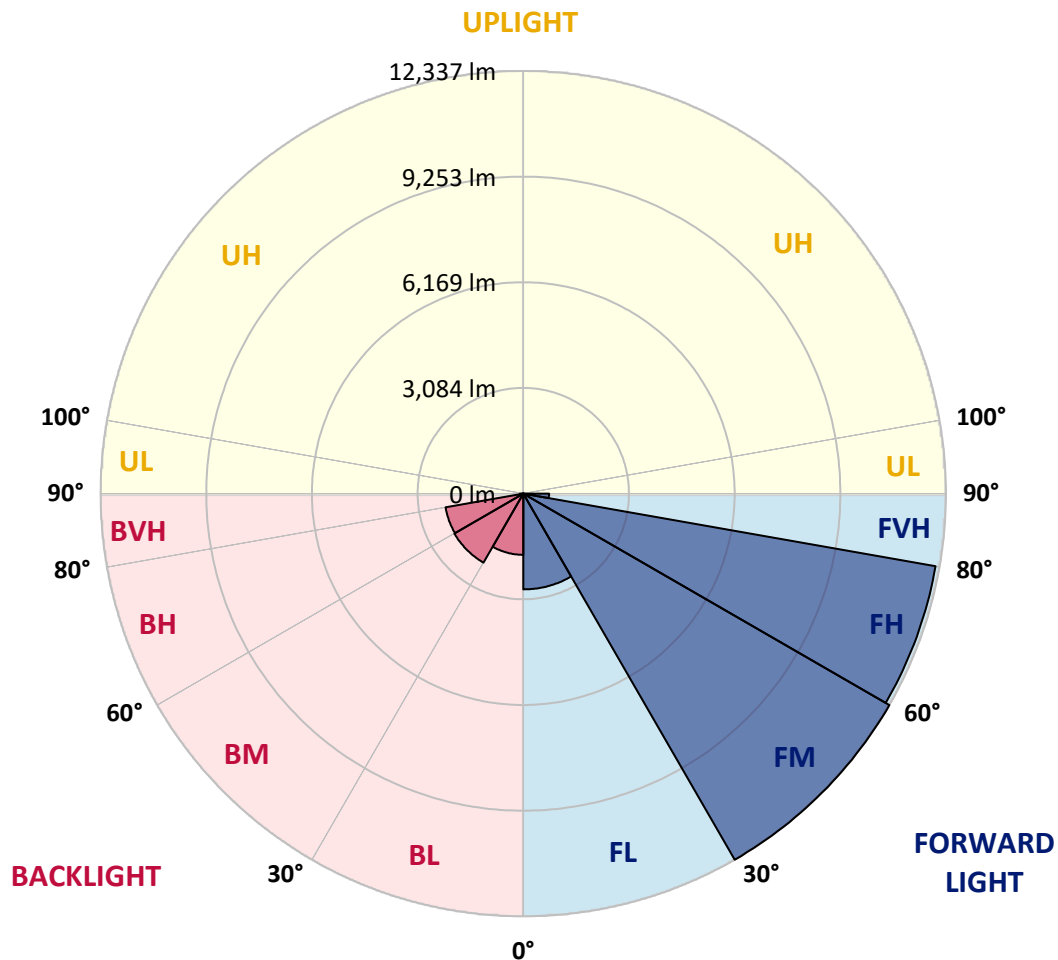
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 2794.6  | 8.1       |                         |      |         |
| FM (30°-60°)   | 12337.1 | 35.6      |                         |      |         |
| FH (60°-80°)   | 12217.2 | 35.3      |                         |      | G5      |
| FVH (80°-90°)  | 751.5   | 2.2       |                         |      | G5      |
| BL (0°-30°)    | 1786.7  | 5.2       | B3/2500                 |      |         |
| BM (30°-60°)   | 2323.9  | 6.7       | B2/2500                 |      |         |
| BH (60°-80°)   | 2304.3  | 6.7       | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 93.8    | 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-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 66°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7992.2  | 7992.2  | 7992.2  | 7992.2  | 7992.2  | 7992.2  | 7992.2  | 7992.2  | 7992.2  | 7992.2  | 7992.2  |
| 2.5°  | 7712.4  | 7743.0  | 7777.5  | 7815.9  | 7888.7  | 7928.9  | 7957.7  | 7990.3  | 7994.1  | 8011.3  | 7997.9  |
| 5°    | 7143.1  | 7179.5  | 7231.3  | 7304.1  | 7413.4  | 7583.9  | 7760.3  | 7904.0  | 7921.3  | 8001.8  | 8024.8  |
| 7.5°  | 6667.8  | 6688.9  | 6731.1  | 6848.0  | 7003.2  | 7193.0  | 7449.8  | 7741.1  | 7783.3  | 7974.9  | 8042.0  |
| 10°   | 6280.7  | 6301.7  | 6351.6  | 6472.3  | 6625.7  | 6863.3  | 7145.0  | 7528.4  | 7562.9  | 7892.5  | 8045.8  |
| 12.5° | 5991.3  | 6010.4  | 6064.1  | 6182.9  | 6359.2  | 6581.6  | 6892.1  | 7298.4  | 7348.2  | 7783.3  | 8009.4  |
| 15°   | 5770.9  | 5807.3  | 5851.3  | 5949.1  | 6135.0  | 6349.7  | 6650.6  | 7087.5  | 7127.8  | 7668.3  | 7984.5  |
| 17.5° | 5676.9  | 5694.2  | 5724.9  | 5814.9  | 5951.0  | 6161.8  | 6464.7  | 6922.7  | 6970.6  | 7587.8  | 7978.8  |
| 20°   | 5680.8  | 5698.0  | 5703.8  | 5753.6  | 5851.3  | 6033.4  | 6332.4  | 6792.4  | 6849.9  | 7516.9  | 7988.3  |
| 22.5° | 5811.1  | 5813.0  | 5791.9  | 5774.7  | 5813.0  | 5964.4  | 6238.5  | 6694.6  | 6761.7  | 7486.2  | 7996.0  |
| 25°   | 6012.3  | 6046.8  | 6016.2  | 5935.7  | 5864.8  | 5937.6  | 6202.1  | 6641.0  | 6704.2  | 7442.1  | 7986.4  |
| 27.5° | 6338.2  | 6343.9  | 6319.0  | 6209.8  | 6025.8  | 5972.1  | 6186.8  | 6600.7  | 6654.4  | 7409.5  | 7938.5  |
| 30°   | 6775.1  | 6757.9  | 6734.9  | 6614.2  | 6324.7  | 6104.3  | 6219.3  | 6564.3  | 6619.9  | 7361.6  | 7881.0  |
| 32.5° | 7217.9  | 7271.5  | 7250.5  | 7108.6  | 6733.0  | 6361.2  | 6324.7  | 6560.5  | 6606.5  | 7325.2  | 7817.8  |
| 35°   | 7687.4  | 7712.4  | 7812.0  | 7739.2  | 7354.0  | 6777.1  | 6522.2  | 6619.9  | 6656.3  | 7327.1  | 7773.7  |
| 37.5° | 8055.4  | 8122.5  | 8356.3  | 8419.6  | 8057.3  | 7327.1  | 6842.2  | 6788.6  | 6803.9  | 7421.0  | 7790.9  |
| 40°   | 8500.1  | 8615.1  | 8916.0  | 9174.7  | 8937.1  | 8042.0  | 7386.5  | 7101.0  | 7120.1  | 7647.2  | 7904.0  |
| 42.5° | 9063.6  | 9144.1  | 9548.5  | 9899.2  | 9860.9  | 8986.9  | 8045.8  | 7612.7  | 7622.3  | 8097.6  | 8220.3  |
| 45°   | 9722.9  | 9837.9  | 10292.1 | 10819.1 | 10909.2 | 10056.3 | 8998.4  | 8387.0  | 8381.2  | 8797.1  | 8810.6  |
| 47.5° | 10566.2 | 10637.1 | 11087.5 | 11662.4 | 12026.6 | 11399.9 | 10154.1 | 9498.6  | 9437.3  | 9816.8  | 9707.5  |
| 50°   | 11342.4 | 11453.5 | 11794.7 | 12423.3 | 13329.9 | 12973.4 | 11673.9 | 10939.9 | 10796.2 | 11150.7 | 10966.7 |
| 52.5° | 11668.2 | 11785.1 | 12072.6 | 12852.7 | 14447.3 | 15008.8 | 13604.0 | 12659.1 | 12419.5 | 12691.7 | 12624.6 |
| 55°   | 11102.8 | 11254.2 | 11522.5 | 12471.3 | 14937.9 | 17356.6 | 16206.7 | 14646.6 | 14472.2 | 14355.3 | 14374.4 |
| 57.5° | 9582.9  | 9726.7  | 10088.9 | 11135.4 | 14351.4 | 19060.5 | 19923.0 | 17201.4 | 16827.7 | 16289.1 | 16381.1 |
| 60°   | 7294.5  | 7384.6  | 7572.4  | 8732.0  | 12613.1 | 19503.2 | 24143.3 | 20430.8 | 20193.2 | 18215.3 | 18280.4 |
| 62.5° | 5180.5  | 5282.1  | 5412.4  | 5991.3  | 9234.1  | 18255.5 | 27447.5 | 24940.6 | 24091.5 | 20210.4 | 20147.2 |
| 65°   | 4206.9  | 4137.9  | 4295.1  | 4565.3  | 5418.2  | 14148.3 | 28191.1 | 31200.2 | 30031.0 | 22838.1 | 21960.3 |
| 67.5° | 3459.4  | 3386.6  | 3541.9  | 4022.9  | 4120.7  | 8212.6  | 25511.7 | 35263.3 | 35029.5 | 25695.7 | 23802.1 |
| 69°   | 3062.7  | 3024.4  | 3160.5  | 3708.6  | 3955.8  | 5832.2  | 22224.8 | 35828.7 | 35884.3 | 27380.4 | 24085.8 |
| 70°   | 2759.9  | 2775.2  | 2907.5  | 3549.5  | 3881.1  | 4808.7  | 18995.3 | 35048.7 | 35520.2 | 28221.8 | 23779.1 |
| 72.5° | 2031.6  | 2064.2  | 2248.2  | 2940.0  | 3810.2  | 4080.4  | 11304.0 | 30613.7 | 31447.4 | 28271.6 | 21753.3 |
| 75°   | 1420.2  | 1404.9  | 1567.8  | 2213.7  | 3599.4  | 4044.0  | 6639.1  | 23675.6 | 24620.5 | 24436.5 | 18278.5 |
| 77.5° | 929.5   | 954.5   | 1084.8  | 1563.9  | 3028.2  | 4013.3  | 4327.7  | 16797.0 | 17410.3 | 16342.8 | 10811.5 |
| 80°   | 655.5   | 653.6   | 726.4   | 1067.5  | 2246.2  | 3856.2  | 3543.8  | 10587.2 | 10432.0 | 6422.5  | 3206.5  |
| 82.5° | 375.7   | 402.5   | 486.8   | 751.3   | 1502.6  | 3394.3  | 3260.1  | 5063.6  | 4622.8  | 1830.3  | 1082.9  |
| 85°   | 208.9   | 218.5   | 289.4   | 454.2   | 877.8   | 2556.7  | 2846.1  | 2303.7  | 2173.4  | 764.7   | 465.7   |
| 87.5° | 67.1    | 72.8    | 120.7   | 230.0   | 398.7   | 1207.5  | 1611.9  | 1063.7  | 981.3   | 276.0   | 187.8   |
| 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°    | 7992.2  | 7992.2  | 7992.2 | 7992.2 | 7992.2 | 7992.2 | 7992.2 | 7992.2 | 7992.2 | 7992.2 | 7992.2 |
| 2.5°  | 8003.7  | 8026.7  | 7965.3 | 7905.9 | 7852.3 | 7777.5 | 7710.4 | 7654.9 | 7616.5 | 7610.8 | 7591.6 |
| 5°    | 8030.5  | 8032.4  | 7915.5 | 7758.4 | 7605.0 | 7436.4 | 7262.0 | 7137.4 | 7020.5 | 6955.3 | 6922.7 |
| 7.5°  | 8049.7  | 8032.4  | 7821.6 | 7566.7 | 7271.5 | 6964.9 | 6658.2 | 6412.9 | 6223.2 | 6148.4 | 6177.2 |
| 10°   | 8042.0  | 7988.3  | 7679.8 | 7271.5 | 6842.2 | 6384.2 | 5943.3 | 5598.4 | 5282.1 | 5119.2 | 5123.0 |
| 12.5° | 7999.8  | 7911.7  | 7469.0 | 6940.0 | 6309.4 | 5696.1 | 5021.5 | 4555.7 | 4189.7 | 3973.1 | 3906.0 |
| 15°   | 7963.4  | 7810.1  | 7221.7 | 6489.6 | 5705.7 | 4829.8 | 4007.6 | 3432.6 | 3126.0 | 2955.4 | 2953.5 |
| 17.5° | 7925.1  | 7712.4  | 6951.5 | 6012.3 | 5011.9 | 3884.9 | 3022.5 | 2583.6 | 2439.8 | 2457.1 | 2428.3 |
| 20°   | 7884.9  | 7597.4  | 6669.7 | 5481.4 | 4166.7 | 2897.9 | 2263.5 | 2085.2 | 2125.5 | 2204.1 | 2215.6 |
| 22.5° | 7838.9  | 7474.7  | 6366.9 | 4896.9 | 3277.4 | 2181.1 | 1836.1 | 1809.3 | 1912.8 | 2035.4 | 2052.7 |
| 25°   | 7767.9  | 7321.4  | 5985.5 | 4285.5 | 2528.0 | 1757.5 | 1608.0 | 1627.2 | 1728.8 | 1832.3 | 1843.8 |
| 27.5° | 7668.3  | 7131.6  | 5600.3 | 3522.7 | 1899.3 | 1508.4 | 1470.0 | 1494.9 | 1544.8 | 1608.0 | 1623.4 |
| 30°   | 7534.1  | 6917.0  | 5157.5 | 2863.4 | 1521.8 | 1383.8 | 1368.4 | 1381.9 | 1410.6 | 1437.4 | 1445.1 |
| 32.5° | 7400.0  | 6710.0  | 4711.0 | 2192.6 | 1356.9 | 1301.4 | 1286.0 | 1286.0 | 1286.0 | 1289.9 | 1291.8 |
| 35°   | 7275.4  | 6514.5  | 4231.8 | 1707.7 | 1270.7 | 1236.2 | 1215.1 | 1192.1 | 1188.3 | 1174.9 | 1174.9 |
| 37.5° | 7206.4  | 6336.2  | 3722.0 | 1429.8 | 1207.5 | 1182.5 | 1153.8 | 1115.5 | 1094.4 | 1096.3 | 1092.5 |
| 40°   | 7219.8  | 6219.3  | 3258.2 | 1272.6 | 1155.7 | 1128.9 | 1084.8 | 1040.7 | 1027.3 | 1027.3 | 1023.5 |
| 42.5° | 7371.2  | 6181.0  | 2813.6 | 1190.2 | 1105.9 | 1075.2 | 1019.6 | 979.4  | 971.7  | 969.8  | 973.6  |
| 45°   | 7720.0  | 6274.9  | 2414.9 | 1136.5 | 1063.7 | 1017.7 | 962.1  | 925.7  | 918.0  | 918.0  | 916.1  |
| 47.5° | 8400.4  | 6579.7  | 2129.3 | 1102.0 | 1033.0 | 973.6  | 916.1  | 879.7  | 866.3  | 862.5  | 862.5  |
| 50°   | 9458.4  | 7240.9  | 1916.6 | 1071.4 | 994.7  | 933.4  | 874.0  | 831.8  | 810.7  | 808.8  | 806.9  |
| 52.5° | 10928.4 | 8272.0  | 1834.2 | 1048.4 | 952.5  | 891.2  | 826.1  | 785.8  | 759.0  | 753.2  | 749.4  |
| 55°   | 12647.6 | 9711.4  | 1947.3 | 1031.1 | 908.5  | 843.3  | 776.2  | 734.1  | 709.1  | 697.6  | 695.7  |
| 57.5° | 14638.9 | 11440.1 | 2376.6 | 1008.1 | 868.2  | 791.6  | 726.4  | 684.2  | 657.4  | 644.0  | 640.1  |
| 60°   | 16427.1 | 13216.8 | 3126.0 | 994.7  | 833.7  | 736.0  | 668.9  | 630.6  | 605.6  | 592.2  | 590.3  |
| 62.5° | 18391.6 | 14911.1 | 4021.0 | 1031.1 | 818.4  | 682.3  | 615.2  | 580.7  | 559.6  | 546.2  | 546.2  |
| 65°   | 20490.3 | 16607.3 | 4613.2 | 1153.8 | 841.4  | 640.1  | 557.7  | 529.0  | 509.8  | 500.2  | 498.3  |
| 67.5° | 21904.7 | 17193.7 | 3800.6 | 1280.3 | 898.9  | 594.1  | 502.1  | 479.1  | 467.6  | 458.1  | 458.1  |
| 69°   | 21751.4 | 16452.0 | 2804.0 | 1312.9 | 916.1  | 571.1  | 471.5  | 454.2  | 438.9  | 435.1  | 431.2  |
| 70°   | 21266.5 | 15606.8 | 2349.7 | 1291.8 | 902.7  | 550.1  | 452.3  | 431.2  | 417.8  | 414.0  | 412.1  |
| 72.5° | 18941.7 | 13535.0 | 1749.8 | 1123.1 | 768.6  | 477.2  | 400.6  | 381.4  | 369.9  | 364.2  | 364.2  |
| 75°   | 15737.1 | 11062.6 | 1366.5 | 893.1  | 601.8  | 402.5  | 343.1  | 327.7  | 318.2  | 314.3  | 312.4  |
| 77.5° | 8820.1  | 6177.2  | 981.3  | 699.6  | 456.1  | 325.8  | 287.5  | 274.1  | 264.5  | 260.7  | 260.7  |
| 80°   | 2457.1  | 1765.2  | 576.9  | 461.9  | 310.5  | 247.2  | 228.1  | 218.5  | 205.1  | 195.5  | 201.2  |
| 82.5° | 925.7   | 764.7   | 329.7  | 277.9  | 197.4  | 164.8  | 159.1  | 151.4  | 145.7  | 132.2  | 132.2  |
| 85°   | 450.4   | 371.8   | 210.8  | 147.6  | 109.2  | 86.2   | 82.4   | 78.6   | 74.7   | 65.2   | 67.1   |
| 87.5° | 155.2   | 164.8   | 92.0   | 53.7   | 32.6   | 21.1   | 17.2   | 9.6    | 9.6    | 9.6    | 9.6    |
| 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)