

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: P457945

Luminaire Tested: **GLAN-SA9B-750-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457945  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9B-750-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37046 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

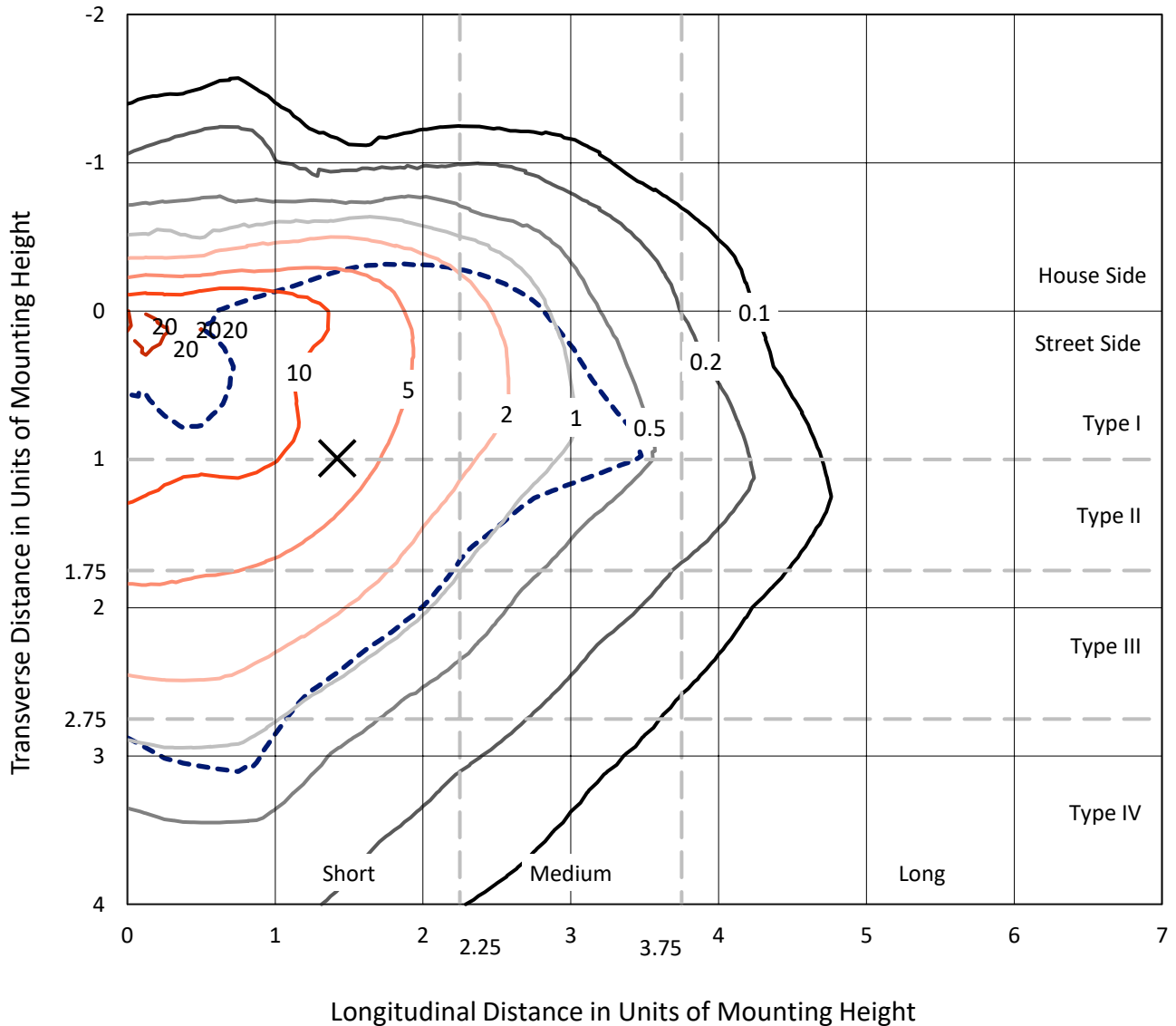
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

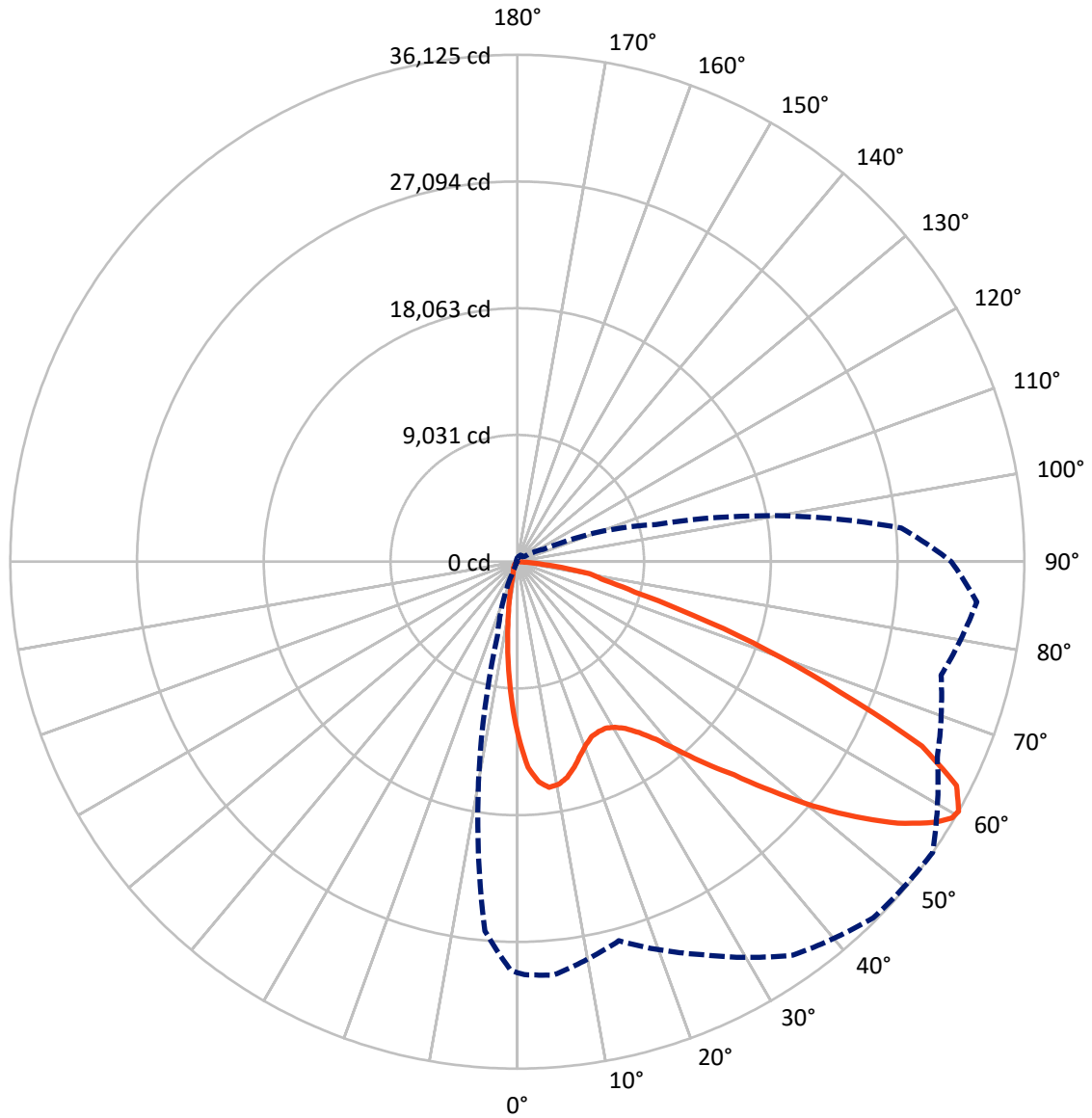
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5498.0   | 0.0    | 5498.0  |
|                    | % Fixture | 14.8     | 0.0    | 14.8    |
| <b>Street Side</b> | Lumens    | 31548.1  | 0.0    | 31548.1 |
|                    | % Fixture | 85.2     | 0.0    | 85.2    |
| <b>Total</b>       | Lumens    | 37046.0  | 0.0    | 37046.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 928.9   | 2.5       |
| 10°-20°   | 1829.2  | 4.9       |
| 20°-30°   | 2707.5  | 7.3       |
| 30°-40°   | 4035.8  | 10.9      |
| 40°-50°   | 5910.5  | 16.0      |
| 50°-60°   | 8532.9  | 23.0      |
| 60°-70°   | 8976.2  | 24.2      |
| 70°-80°   | 3692.5  | 10.0      |
| 80°-90°   | 432.5   | 1.2       |
| 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°    | 37046.0 | 100.0     |
| 0°-180°   | 37046.0 | 100.0     |

**Coefficient of Utilization**



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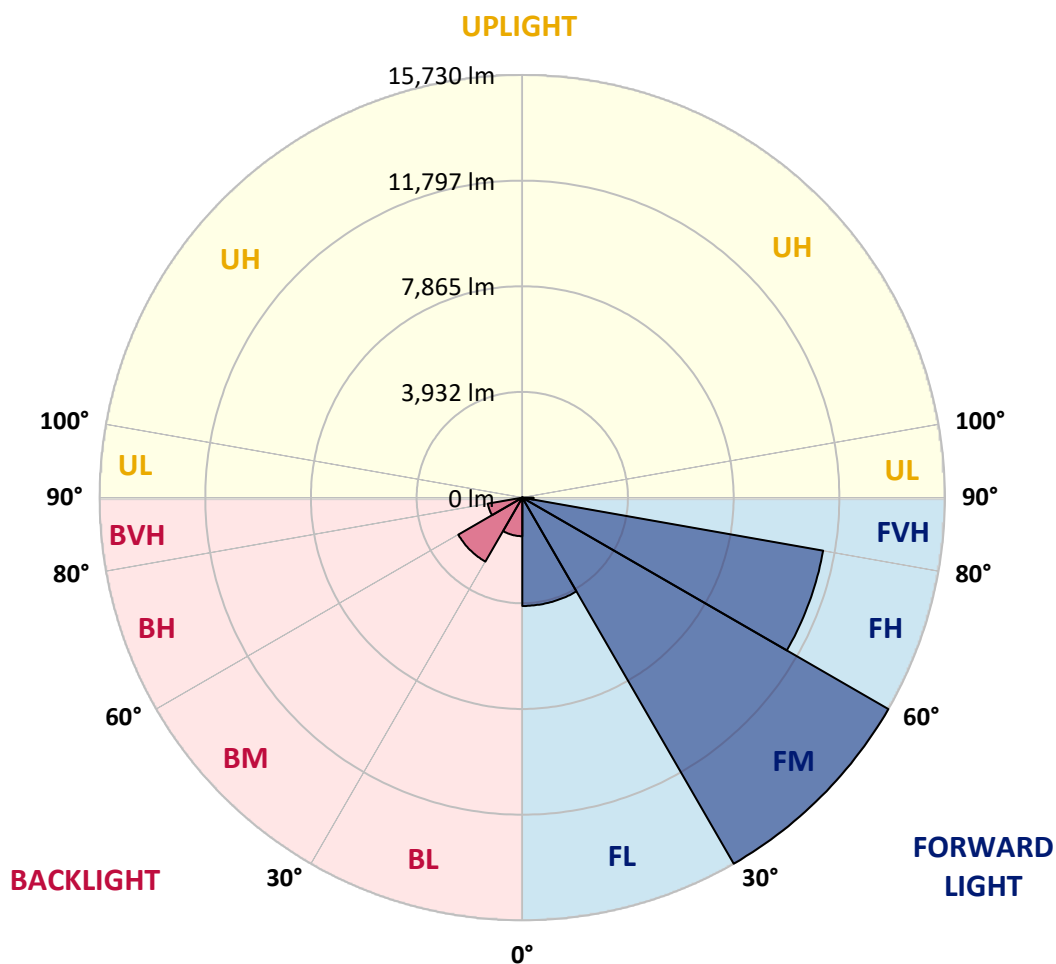
CATALOG NUMBER: GLAN-SA9B-750-U-SLL-HSS

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 4031.1  | 10.9      |                         |      |          |
| FM   | (30°-60°)   | 15729.8 | 42.5      |                         |      |          |
| FH   | (60°-80°)   | 11367.4 | 30.7      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 419.8   | 1.1       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1434.4  | 3.9       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2749.5  | 7.4       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 1301.3  | 3.5       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 12.7    | 0.0       |                         |      | G1/100   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12543.7 | 12543.7 | 12543.7 | 12543.7 | 12543.7 | 12543.7 | 12543.7 | 12543.7 | 12543.7 | 12543.7 | 12543.7 |
| 2.5°  | 13704.2 | 13681.4 | 13883.9 | 14214.6 | 14548.3 | 14722.2 | 14688.0 | 14673.7 | 14397.1 | 14194.7 | 13769.8 |
| 5°    | 13675.7 | 13792.6 | 14154.8 | 15050.1 | 15728.8 | 16056.7 | 16153.7 | 15745.9 | 15207.0 | 14425.7 | 13461.9 |
| 7.5°  | 12857.3 | 13002.8 | 13593.0 | 14993.1 | 16199.3 | 16912.1 | 16886.5 | 16233.5 | 15121.4 | 13912.4 | 12538.0 |
| 10°   | 11842.2 | 12013.3 | 12706.2 | 14405.7 | 15971.2 | 16912.1 | 16963.5 | 16136.5 | 14753.6 | 13202.4 | 11756.7 |
| 12.5° | 11126.5 | 11328.9 | 12096.0 | 13858.2 | 15383.8 | 16310.5 | 16370.4 | 15771.6 | 14477.0 | 12928.6 | 11331.8 |
| 15°   | 10884.1 | 11075.2 | 11853.6 | 13581.6 | 14759.3 | 15258.3 | 15244.0 | 15181.3 | 14368.6 | 12994.2 | 11354.6 |
| 17.5° | 11300.4 | 11457.3 | 12335.5 | 13707.1 | 14174.7 | 14123.4 | 14197.5 | 14499.8 | 14391.4 | 13544.5 | 12073.2 |
| 20°   | 12375.4 | 12535.1 | 13479.0 | 14092.0 | 13727.0 | 13402.0 | 13436.2 | 13940.9 | 14602.4 | 14579.6 | 13196.7 |
| 22.5° | 13855.4 | 14126.2 | 14981.7 | 14839.1 | 13667.2 | 12954.3 | 12883.0 | 13538.8 | 14961.7 | 15771.6 | 14713.7 |
| 25°   | 15728.8 | 16002.5 | 16669.8 | 16031.0 | 13960.9 | 12848.8 | 12783.2 | 13416.2 | 15398.0 | 16935.0 | 16421.7 |
| 27.5° | 17302.8 | 17511.0 | 18175.4 | 17191.6 | 14394.3 | 12894.4 | 12786.0 | 13433.3 | 15751.6 | 17924.4 | 17861.7 |
| 30°   | 18563.2 | 18717.1 | 19107.8 | 17733.4 | 14767.8 | 13094.0 | 12968.5 | 13684.3 | 15908.4 | 18406.3 | 19027.9 |
| 32.5° | 19578.3 | 19837.8 | 19960.4 | 18312.2 | 15303.9 | 13470.4 | 13256.5 | 14166.2 | 16290.5 | 19002.3 | 20251.2 |
| 35°   | 20738.8 | 21038.2 | 20881.4 | 18865.4 | 16011.1 | 14057.8 | 13795.5 | 14947.5 | 16869.4 | 19552.6 | 21671.3 |
| 37.5° | 22210.2 | 22555.2 | 21942.2 | 19447.1 | 16758.2 | 14941.8 | 14819.2 | 16045.3 | 17747.6 | 20339.6 | 23194.0 |
| 40°   | 23732.9 | 23932.5 | 22971.5 | 20154.3 | 17676.3 | 16227.8 | 16344.7 | 17676.3 | 18896.8 | 21283.5 | 24813.6 |
| 42.5° | 24922.0 | 25110.2 | 24029.4 | 20747.4 | 18614.5 | 17753.3 | 18240.9 | 19643.9 | 20214.2 | 22250.1 | 26022.6 |
| 45°   | 25831.6 | 25991.3 | 24762.3 | 21394.7 | 19880.5 | 19963.2 | 20884.3 | 21671.3 | 21534.4 | 22840.4 | 26955.1 |
| 47.5° | 26538.8 | 26675.6 | 25326.9 | 22090.4 | 21776.8 | 22666.4 | 24075.1 | 24408.7 | 22903.1 | 23479.1 | 27799.1 |
| 50°   | 26829.6 | 26869.5 | 25503.7 | 22977.2 | 23929.6 | 26111.0 | 27579.5 | 27377.1 | 24471.4 | 24189.1 | 28697.3 |
| 52.5° | 27208.8 | 27200.3 | 26008.4 | 23821.3 | 25954.2 | 29190.6 | 30656.3 | 30197.2 | 26245.0 | 25252.7 | 29706.7 |
| 55°   | 28204.0 | 28215.4 | 27089.1 | 25018.9 | 27679.3 | 31677.1 | 33245.4 | 32911.8 | 28115.6 | 27049.2 | 30884.4 |
| 57.5° | 29413.0 | 29455.8 | 28626.0 | 26419.0 | 29327.5 | 33479.3 | 35178.7 | 35050.4 | 30644.9 | 29048.1 | 31996.5 |
| 59°   | 29569.9 | 29655.4 | 29353.2 | 27405.6 | 30305.6 | 34032.4 | 35840.3 | 35965.8 | 31999.3 | 30365.4 | 32598.2 |
| 60°   | 29284.7 | 29427.3 | 29564.2 | 27964.5 | 30878.7 | 34232.1 | 35880.2 | 36125.4 | 33017.3 | 31260.8 | 32871.9 |
| 62.5° | 28041.5 | 28266.7 | 28954.0 | 29683.9 | 31594.4 | 33610.4 | 34605.6 | 35118.9 | 34277.7 | 33613.3 | 32897.6 |
| 65°   | 26413.3 | 26530.2 | 27522.5 | 29989.0 | 30205.8 | 30707.6 | 31015.6 | 31674.3 | 32763.5 | 34520.1 | 31719.9 |
| 67.5° | 23744.3 | 24089.3 | 25304.1 | 28218.3 | 26108.2 | 25515.1 | 25438.1 | 24782.2 | 27610.9 | 32358.6 | 28817.1 |
| 70°   | 19615.4 | 19769.3 | 21266.4 | 23134.1 | 19703.7 | 18791.3 | 19156.3 | 18911.0 | 21403.2 | 27856.1 | 23194.0 |
| 72.5° | 14833.4 | 15181.3 | 16644.1 | 18440.5 | 13407.7 | 12224.3 | 13230.9 | 13139.6 | 16076.7 | 22387.0 | 15934.1 |
| 75°   | 10553.3 | 10778.6 | 12643.5 | 14431.4 | 9389.9  | 7955.6  | 8317.8  | 8657.1  | 11223.4 | 17676.3 | 9415.6  |
| 77.5° | 7251.3  | 7445.2  | 8845.3  | 9543.9  | 6849.3  | 6561.3  | 6002.4  | 6330.3  | 7354.0  | 10487.8 | 5124.1  |
| 80°   | 4374.2  | 4365.6  | 5286.6  | 5457.7  | 4770.5  | 5540.4  | 4647.9  | 5218.2  | 4445.5  | 4488.2  | 1984.6  |
| 82.5° | 2840.1  | 2811.6  | 3233.6  | 3524.4  | 2654.7  | 2791.6  | 1873.4  | 2700.4  | 2897.1  | 1251.8  | 627.3   |
| 85°   | 1271.8  | 1325.9  | 1554.1  | 2050.2  | 1163.4  | 618.8   | 382.1   | 829.8   | 1234.7  | 630.2   | 0.0     |
| 87.5° | 131.2   | 102.7   | 273.7   | 499.0   | 159.7   | 17.1    | 57.0    | 28.5    | 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°    | 12543.7 | 12543.7 | 12543.7 | 12543.7 | 12543.7 | 12543.7 | 12543.7 | 12543.7 | 12543.7 | 12543.7 | 12543.7 |
| 2.5°  | 13573.1 | 13407.7 | 12914.4 | 12452.4 | 12056.1 | 11571.3 | 11257.7 | 10764.3 | 10464.9 | 10373.7 | 10388.0 |
| 5°    | 13028.4 | 12552.2 | 11614.1 | 10864.1 | 10028.7 | 9552.5  | 8828.2  | 8132.4  | 7756.0  | 7616.3  | 7553.6  |
| 7.5°  | 11887.8 | 11377.4 | 10245.4 | 9067.7  | 8172.3  | 7336.9  | 6797.9  | 6184.9  | 5765.7  | 5420.7  | 5360.8  |
| 10°   | 11040.9 | 10370.8 | 8967.9  | 7701.9  | 6994.7  | 6367.4  | 5828.4  | 5215.4  | 4722.1  | 4328.6  | 4220.2  |
| 12.5° | 10533.4 | 9783.4  | 8218.0  | 7157.2  | 6487.1  | 5842.7  | 5141.2  | 4431.2  | 3926.5  | 3501.6  | 3304.9  |
| 15°   | 10442.1 | 9572.4  | 8007.0  | 6766.6  | 5939.6  | 5161.2  | 4228.7  | 3461.7  | 2942.7  | 2540.7  | 2418.1  |
| 17.5° | 10992.5 | 9951.7  | 7975.6  | 6358.8  | 5223.9  | 4120.4  | 3150.9  | 2515.0  | 1930.5  | 1705.2  | 1616.8  |
| 20°   | 11973.4 | 10621.8 | 7972.7  | 5885.5  | 4488.2  | 3173.7  | 2212.8  | 1639.6  | 1402.9  | 1294.6  | 1243.2  |
| 22.5° | 13310.7 | 11534.2 | 8123.9  | 5477.7  | 3724.0  | 2341.1  | 1579.7  | 1306.0  | 1169.1  | 1080.7  | 1060.8  |
| 25°   | 14944.6 | 12885.9 | 8494.6  | 5201.1  | 3139.5  | 1836.4  | 1303.1  | 1117.8  | 1003.7  | 963.8   | 946.7   |
| 27.5° | 16396.0 | 14180.4 | 8902.3  | 4916.0  | 2720.3  | 1625.3  | 1209.0  | 1023.7  | 932.4   | 901.1   | 875.4   |
| 30°   | 17647.8 | 15355.2 | 9099.1  | 4539.6  | 2383.8  | 1488.5  | 1226.1  | 1095.0  | 975.2   | 881.1   | 838.3   |
| 32.5° | 18691.5 | 16256.3 | 9227.4  | 4197.4  | 2098.7  | 1217.6  | 969.5   | 846.9   | 792.7   | 758.5   | 730.0   |
| 35°   | 19997.4 | 17231.5 | 9150.4  | 4003.5  | 1953.3  | 1109.2  | 884.0   | 730.0   | 638.7   | 570.3   | 541.8   |
| 37.5° | 21366.2 | 18206.7 | 9016.4  | 3843.8  | 1887.7  | 1029.4  | 841.2   | 692.9   | 593.1   | 521.8   | 484.8   |
| 40°   | 22783.3 | 19110.6 | 8859.6  | 3695.5  | 1827.8  | 978.1   | 815.5   | 661.5   | 561.7   | 484.8   | 444.8   |
| 42.5° | 24080.8 | 19991.7 | 8796.8  | 3598.6  | 1730.9  | 986.6   | 795.6   | 647.3   | 530.4   | 450.5   | 416.3   |
| 45°   | 25130.1 | 20827.2 | 8882.4  | 3547.2  | 1625.3  | 972.4   | 801.3   | 630.2   | 504.7   | 427.7   | 393.5   |
| 47.5° | 26250.8 | 22007.7 | 9159.0  | 3495.9  | 1522.7  | 903.9   | 844.0   | 627.3   | 493.3   | 413.5   | 376.4   |
| 50°   | 27553.9 | 23519.0 | 9792.0  | 3370.5  | 1397.2  | 829.8   | 898.2   | 624.5   | 479.0   | 396.4   | 359.3   |
| 52.5° | 29290.4 | 25235.6 | 10445.0 | 3150.9  | 1214.7  | 758.5   | 858.3   | 615.9   | 450.5   | 376.4   | 339.3   |
| 55°   | 30850.2 | 27043.5 | 10998.2 | 2891.4  | 983.8   | 655.8   | 772.8   | 578.9   | 402.1   | 342.2   | 308.0   |
| 57.5° | 31494.6 | 28064.3 | 10981.1 | 2532.1  | 787.0   | 576.0   | 635.9   | 530.4   | 350.7   | 302.3   | 273.7   |
| 59°   | 31258.0 | 27936.0 | 10613.2 | 2266.9  | 718.6   | 533.2   | 527.5   | 524.7   | 327.9   | 273.7   | 250.9   |
| 60°   | 30924.3 | 27468.3 | 10216.9 | 2135.8  | 675.8   | 504.7   | 484.8   | 519.0   | 308.0   | 256.6   | 233.8   |
| 62.5° | 29646.9 | 25529.3 | 8902.3  | 1913.3  | 618.8   | 427.7   | 387.8   | 439.1   | 273.7   | 222.4   | 202.5   |
| 65°   | 27796.3 | 22549.5 | 7536.5  | 1850.6  | 601.7   | 353.6   | 322.2   | 313.7   | 233.8   | 188.2   | 171.1   |
| 67.5° | 24186.3 | 19082.1 | 6105.0  | 1807.8  | 607.4   | 296.6   | 282.3   | 236.7   | 193.9   | 156.8   | 145.4   |
| 70°   | 19364.4 | 14879.0 | 4998.6  | 1759.4  | 613.1   | 242.4   | 236.7   | 188.2   | 156.8   | 131.2   | 119.8   |
| 72.5° | 11765.2 | 8819.6  | 3935.0  | 1528.4  | 596.0   | 193.9   | 211.0   | 142.6   | 114.1   | 94.1    | 88.4    |
| 75°   | 7274.1  | 6036.6  | 2440.9  | 1189.1  | 393.5   | 142.6   | 148.3   | 88.4    | 77.0    | 59.9    | 59.9    |
| 77.5° | 4214.5  | 3812.4  | 872.6   | 427.7   | 173.9   | 85.5    | 65.6    | 45.6    | 42.8    | 25.7    | 25.7    |
| 80°   | 1748.0  | 1400.1  | 302.3   | 145.4   | 94.1    | 39.9    | 14.3    | 2.9     | 0.0     | 0.0     | 0.0     |
| 82.5° | 510.4   | 453.4   | 82.7    | 65.6    | 28.5    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 85°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 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     |





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**CANDELA DISTRIBUTION (continued):**

|       | 185°    | 195°    | 205°    | 215°    | 225°    | 235°    | 245°    | 255°    | 265°    | 270°    | 275°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12543.7 | 12543.7 | 12543.7 | 12543.7 | 12543.7 | 12543.7 | 12543.7 | 12543.7 | 12543.7 | 12543.7 | 12543.7 |
| 2.5°  | 10145.6 | 10051.5 | 10008.7 | 10154.1 | 10020.1 | 10191.2 | 10060.0 | 10117.1 | 10285.3 | 10359.4 | 10550.5 |
| 5°    | 7593.5  | 7496.5  | 7450.9  | 7670.5  | 7659.1  | 7767.4  | 7756.0  | 7855.8  | 7941.4  | 7750.3  | 7947.1  |
| 7.5°  | 5289.5  | 5223.9  | 5332.3  | 5503.4  | 5685.9  | 5626.0  | 5626.0  | 5492.0  | 5537.6  | 5509.1  | 5500.5  |
| 10°   | 4023.4  | 3798.2  | 3741.1  | 3735.4  | 3803.9  | 3818.1  | 3741.1  | 3555.8  | 3624.2  | 3644.2  | 3764.0  |
| 12.5° | 3165.1  | 2991.2  | 2726.0  | 2606.3  | 2574.9  | 2600.6  | 2346.8  | 2184.2  | 2261.2  | 2215.6  | 2332.5  |
| 15°   | 2269.8  | 2127.2  | 1970.4  | 1836.4  | 1799.3  | 1748.0  | 1471.4  | 1277.5  | 1254.7  | 1263.2  | 1283.2  |
| 17.5° | 1619.6  | 1522.7  | 1522.7  | 1380.1  | 1303.1  | 1149.1  | 1009.4  | 923.9   | 915.3   | 923.9   | 938.1   |
| 20°   | 1194.8  | 1143.4  | 1137.7  | 1100.7  | 1015.1  | 912.5   | 815.5   | 798.4   | 792.7   | 807.0   | 812.7   |
| 22.5° | 1029.4  | 975.2   | 929.6   | 926.7   | 846.9   | 761.3   | 715.7   | 692.9   | 695.8   | 701.5   | 715.7   |
| 25°   | 921.0   | 864.0   | 815.5   | 787.0   | 730.0   | 670.1   | 627.3   | 615.9   | 615.9   | 624.5   | 627.3   |
| 27.5° | 844.0   | 772.8   | 730.0   | 690.1   | 638.7   | 587.4   | 550.3   | 541.8   | 536.1   | 541.8   | 556.0   |
| 30°   | 789.9   | 718.6   | 664.4   | 604.5   | 564.6   | 516.1   | 484.8   | 473.3   | 470.5   | 473.3   | 484.8   |
| 32.5° | 675.8   | 633.0   | 590.3   | 536.1   | 487.6   | 456.2   | 422.0   | 402.1   | 402.1   | 407.8   | 419.2   |
| 35°   | 510.4   | 487.6   | 484.8   | 470.5   | 430.6   | 396.4   | 356.4   | 336.5   | 336.5   | 347.9   | 353.6   |
| 37.5° | 450.5   | 407.8   | 402.1   | 396.4   | 379.2   | 333.6   | 296.6   | 279.4   | 276.6   | 285.1   | 296.6   |
| 40°   | 410.6   | 362.1   | 336.5   | 330.8   | 333.6   | 282.3   | 242.4   | 225.3   | 225.3   | 228.1   | 239.5   |
| 42.5° | 379.2   | 322.2   | 276.6   | 270.9   | 282.3   | 236.7   | 196.8   | 179.6   | 179.6   | 179.6   | 193.9   |
| 45°   | 353.6   | 288.0   | 233.8   | 205.3   | 222.4   | 193.9   | 159.7   | 142.6   | 136.9   | 142.6   | 148.3   |
| 47.5° | 336.5   | 262.3   | 205.3   | 165.4   | 165.4   | 154.0   | 128.3   | 108.4   | 102.7   | 105.5   | 114.1   |
| 50°   | 322.2   | 239.5   | 173.9   | 134.0   | 119.8   | 122.6   | 97.0    | 82.7    | 77.0    | 77.0    | 85.5    |
| 52.5° | 299.4   | 216.7   | 151.1   | 114.1   | 91.2    | 82.7    | 71.3    | 59.9    | 57.0    | 59.9    | 65.6    |
| 55°   | 270.9   | 196.8   | 131.2   | 94.1    | 71.3    | 57.0    | 51.3    | 42.8    | 39.9    | 42.8    | 51.3    |
| 57.5° | 239.5   | 165.4   | 105.5   | 74.1    | 48.5    | 37.1    | 34.2    | 28.5    | 22.8    | 25.7    | 31.4    |
| 59°   | 219.6   | 148.3   | 91.2    | 59.9    | 37.1    | 25.7    | 25.7    | 20.0    | 14.3    | 17.1    | 25.7    |
| 60°   | 211.0   | 136.9   | 77.0    | 51.3    | 31.4    | 20.0    | 20.0    | 14.3    | 8.6     | 11.4    | 20.0    |
| 62.5° | 179.6   | 114.1   | 59.9    | 31.4    | 14.3    | 2.9     | 8.6     | 2.9     | 0.0     | 2.9     | 8.6     |
| 65°   | 151.1   | 91.2    | 39.9    | 14.3    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 2.9     |
| 67.5° | 125.5   | 68.4    | 20.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 70°   | 99.8    | 45.6    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 72.5° | 68.4    | 25.7    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 75°   | 42.8    | 8.6     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 77.5° | 17.1    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 80°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 82.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 85°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 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     |



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|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12543.7 | 12543.7 | 12543.7 | 12543.7 | 12543.7 | 12543.7 | 12543.7 | 12543.7 | 12543.7 | 12543.7 |
| 2.5°  | 10561.9 | 10969.7 | 11220.6 | 11693.9 | 12178.7 | 12552.2 | 13019.9 | 13439.0 | 13613.0 | 13704.2 |
| 5°    | 8146.7  | 8714.1  | 9196.0  | 9917.5  | 10587.6 | 11403.1 | 12230.0 | 13205.2 | 13578.8 | 13675.7 |
| 7.5°  | 5717.2  | 6296.1  | 6800.8  | 7636.3  | 8591.5  | 9683.6  | 10921.2 | 12158.7 | 12703.4 | 12857.3 |
| 10°   | 4128.9  | 4747.7  | 5363.6  | 6199.1  | 7091.6  | 8275.0  | 9563.9  | 11095.1 | 11722.4 | 11842.2 |
| 12.5° | 2606.3  | 3270.7  | 4271.5  | 5303.8  | 6247.6  | 7200.0  | 8548.7  | 10214.0 | 10906.9 | 11126.5 |
| 15°   | 1511.3  | 2007.4  | 2763.1  | 4109.0  | 5309.5  | 6569.8  | 8041.2  | 9883.2  | 10658.8 | 10884.1 |
| 17.5° | 1012.3  | 1183.4  | 1702.3  | 2731.7  | 4317.1  | 5988.1  | 7912.9  | 10154.1 | 11012.4 | 11300.4 |
| 20°   | 852.6   | 929.6   | 1112.1  | 1665.3  | 3324.8  | 5469.1  | 7947.1  | 10889.8 | 12016.1 | 12375.4 |
| 22.5° | 749.9   | 821.2   | 938.1   | 1197.6  | 2321.1  | 4824.7  | 8109.6  | 11942.0 | 13396.3 | 13855.4 |
| 25°   | 661.5   | 732.8   | 835.5   | 992.3   | 1559.8  | 4080.5  | 8466.1  | 13481.8 | 15224.1 | 15728.8 |
| 27.5° | 587.4   | 653.0   | 741.4   | 875.4   | 1200.5  | 3250.7  | 8782.6  | 14981.7 | 16892.2 | 17302.8 |
| 30°   | 519.0   | 573.1   | 658.7   | 761.3   | 998.0   | 2506.5  | 8942.3  | 16293.4 | 18106.9 | 18563.2 |
| 32.5° | 450.5   | 501.9   | 584.6   | 667.2   | 821.2   | 1910.5  | 8831.0  | 17257.2 | 19287.4 | 19578.3 |
| 35°   | 385.0   | 439.1   | 507.6   | 584.6   | 710.0   | 1542.7  | 8275.0  | 18340.7 | 20510.7 | 20738.8 |
| 37.5° | 330.8   | 376.4   | 447.7   | 507.6   | 641.6   | 1234.7  | 7602.1  | 19315.9 | 21882.3 | 22210.2 |
| 40°   | 279.4   | 325.1   | 396.4   | 450.5   | 590.3   | 972.4   | 6994.7  | 20399.5 | 23328.0 | 23732.9 |
| 42.5° | 228.1   | 282.3   | 345.0   | 433.4   | 507.6   | 741.4   | 6259.0  | 21277.8 | 24414.4 | 24922.0 |
| 45°   | 182.5   | 242.4   | 310.8   | 430.6   | 442.0   | 564.6   | 5549.0  | 21962.1 | 25375.3 | 25831.6 |
| 47.5° | 145.4   | 205.3   | 299.4   | 402.1   | 362.1   | 447.7   | 5144.1  | 22677.8 | 26173.8 | 26538.8 |
| 50°   | 116.9   | 171.1   | 313.7   | 353.6   | 302.3   | 379.2   | 5132.7  | 23476.3 | 26587.2 | 26829.6 |
| 52.5° | 94.1    | 139.7   | 265.2   | 270.9   | 256.6   | 333.6   | 5440.6  | 24374.5 | 27009.2 | 27208.8 |
| 55°   | 79.8    | 116.9   | 173.9   | 199.6   | 231.0   | 302.3   | 5671.6  | 25757.4 | 28015.8 | 28204.0 |
| 57.5° | 62.7    | 99.8    | 134.0   | 159.7   | 205.3   | 276.6   | 5703.0  | 26823.9 | 29290.4 | 29413.0 |
| 59°   | 54.2    | 85.5    | 119.8   | 142.6   | 188.2   | 259.5   | 5574.6  | 26889.5 | 29373.1 | 29569.9 |
| 60°   | 45.6    | 77.0    | 105.5   | 134.0   | 173.9   | 245.2   | 5434.9  | 26413.3 | 29065.2 | 29284.7 |
| 62.5° | 34.2    | 59.9    | 77.0    | 108.4   | 142.6   | 211.0   | 4773.4  | 24750.9 | 27887.5 | 28041.5 |
| 65°   | 22.8    | 42.8    | 57.0    | 79.8    | 111.2   | 182.5   | 3889.4  | 22595.2 | 26068.3 | 26413.3 |
| 67.5° | 14.3    | 31.4    | 45.6    | 59.9    | 91.2    | 154.0   | 2771.6  | 19375.8 | 23521.9 | 23744.3 |
| 70°   | 8.6     | 20.0    | 34.2    | 48.5    | 71.3    | 122.6   | 1645.3  | 15315.3 | 19569.7 | 19615.4 |
| 72.5° | 5.7     | 14.3    | 22.8    | 34.2    | 57.0    | 111.2   | 798.4   | 9983.0  | 14288.8 | 14833.4 |
| 75°   | 2.9     | 8.6     | 14.3    | 25.7    | 45.6    | 91.2    | 382.1   | 6669.6  | 10396.5 | 10553.3 |
| 77.5° | 0.0     | 2.9     | 8.6     | 17.1    | 34.2    | 71.3    | 222.4   | 4379.9  | 7088.8  | 7251.3  |
| 80°   | 0.0     | 0.0     | 5.7     | 14.3    | 25.7    | 45.6    | 134.0   | 2583.4  | 4294.3  | 4374.2  |
| 82.5° | 0.0     | 0.0     | 2.9     | 11.4    | 17.1    | 34.2    | 68.4    | 1134.9  | 2811.6  | 2840.1  |
| 85°   | 0.0     | 0.0     | 2.9     | 11.4    | 14.3    | 22.8    | 25.7    | 154.0   | 1248.9  | 1271.8  |
| 87.5° | 0.0     | 0.0     | 2.9     | 14.3    | 14.3    | 14.3    | 14.3    | 8.6     | 105.5   | 131.2   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)