

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: P458236

Luminaire Tested: **GLAN-SA9C-827-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458236  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9C-827-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40386 lumens  
Efficiency: N/A  
Efficacy: 84.0 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): 481  
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

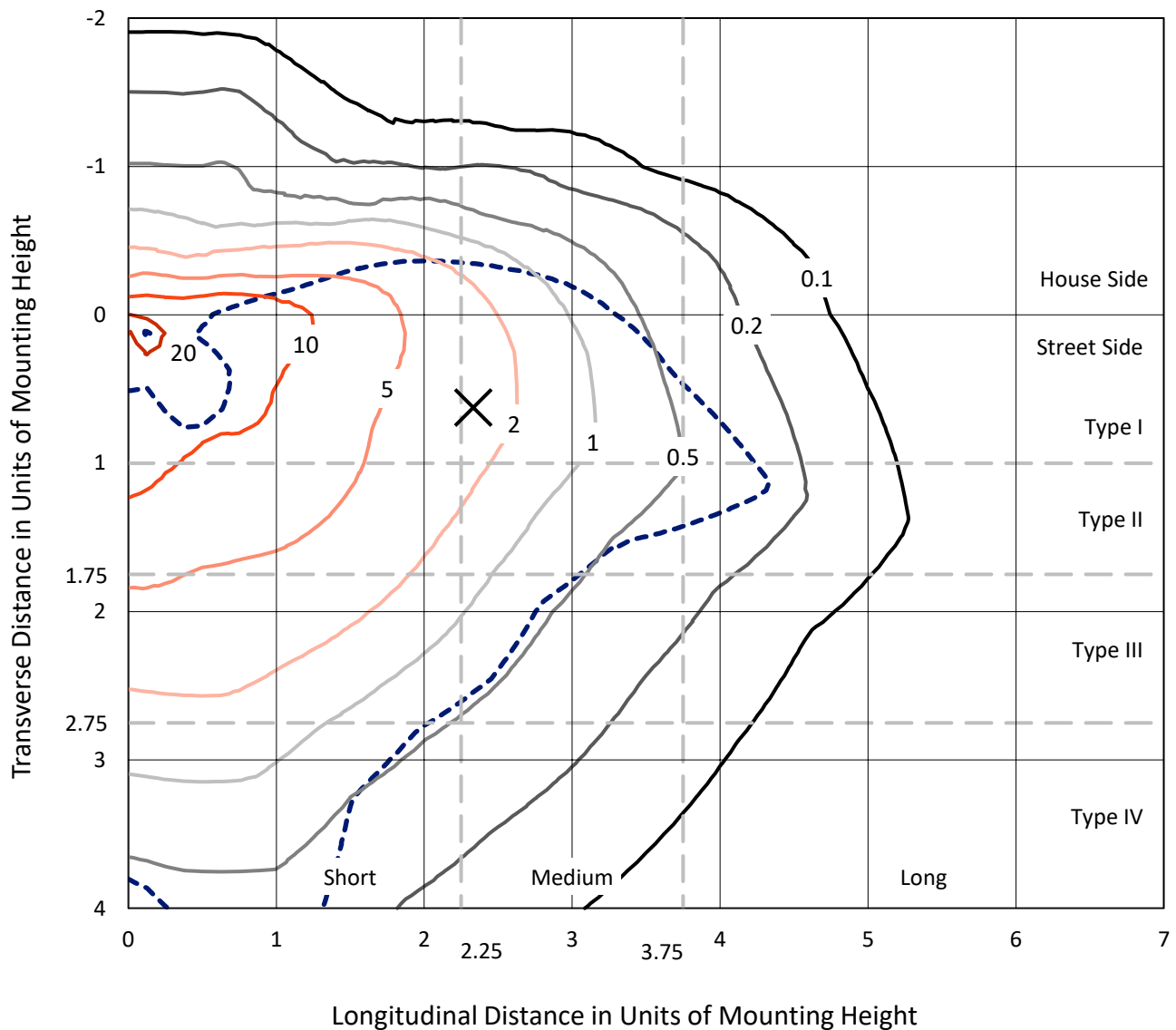


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

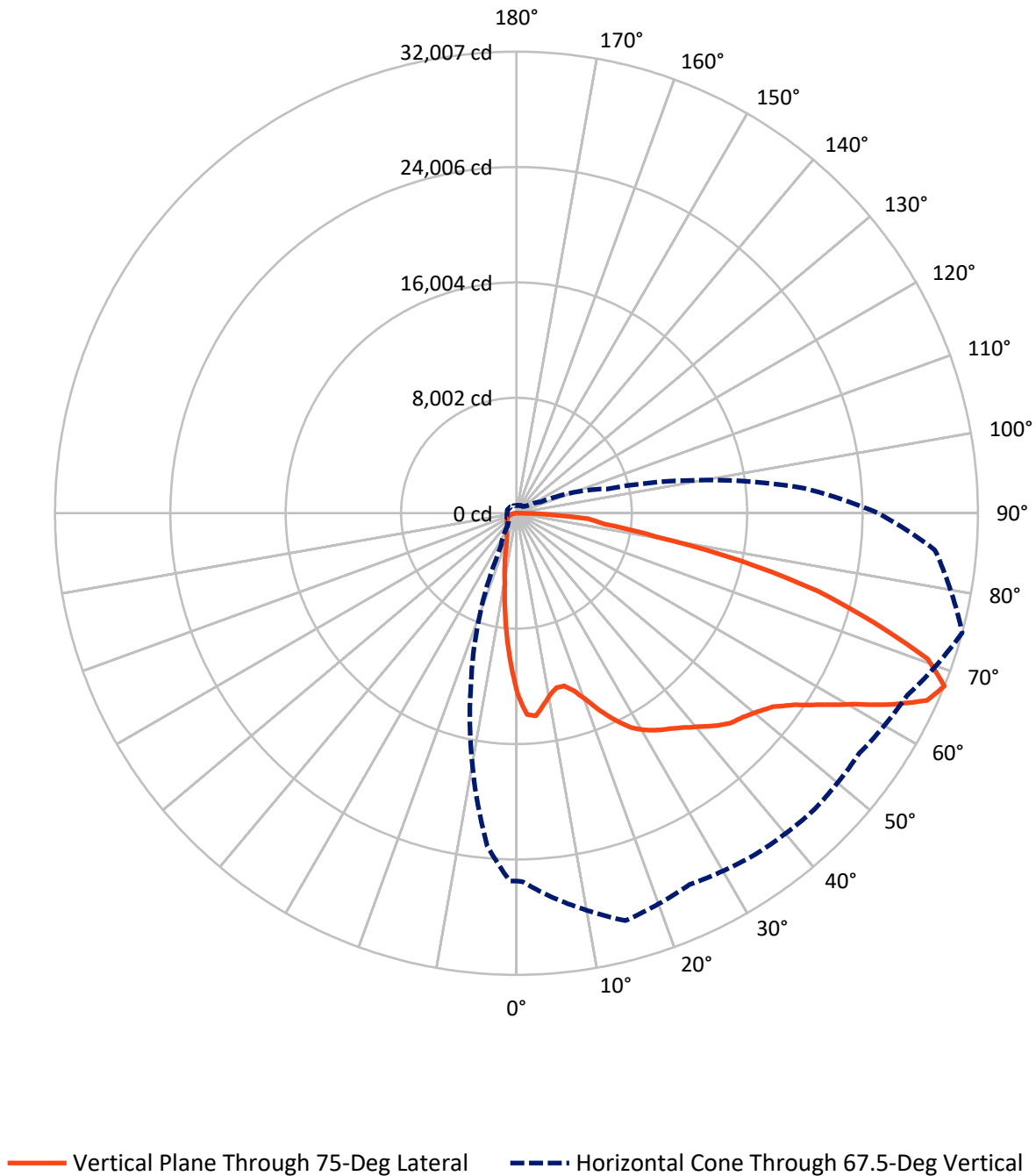


Based on 25 foot mounting height. Maximum calculated value = 24.9 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6826.1   | 0.0    | 6826.1  |
|                    | % Fixture | 16.9     | 0.0    | 16.9    |
| <b>Street Side</b> | Lumens    | 33559.9  | 0.0    | 33559.9 |
|                    | % Fixture | 83.1     | 0.0    | 83.1    |
| <b>Total</b>       | Lumens    | 40386.0  | 0.0    | 40386.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 957.0   | 2.4       |
| 10°-20°   | 1995.9  | 4.9       |
| 20°-30°   | 2872.1  | 7.1       |
| 30°-40°   | 4136.6  | 10.2      |
| 40°-50°   | 5810.8  | 14.4      |
| 50°-60°   | 8104.0  | 20.1      |
| 60°-70°   | 9635.1  | 23.9      |
| 70°-80°   | 5674.6  | 14.1      |
| 80°-90°   | 1200.0  | 3.0       |
| 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°    | 40386.0 | 100.0     |
| 0°-180°   | 40386.0 | 100.0     |

**Coefficient of Utilization**



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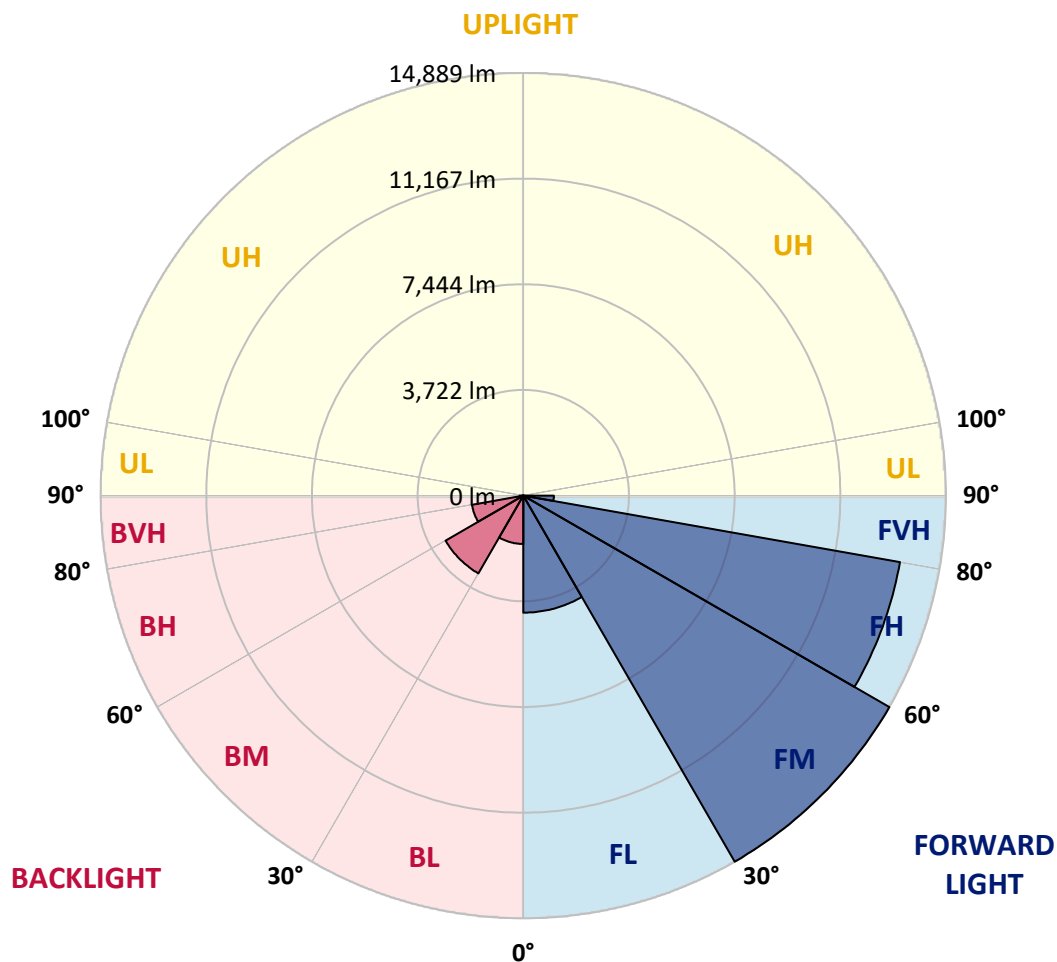
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4122.3  | 10.2      |                         |      |         |
| FM   | (30°-60°)   | 14888.8 | 36.9      |                         |      |         |
| FH   | (60°-80°)   | 13472.9 | 33.4      |                         |      | G5      |
| FVH  | (80°-90°)   | 1075.8  | 2.7       |                         |      | G5      |
| BL   | (0°-30°)    | 1702.6  | 4.2       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3162.6  | 7.8       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1836.8  | 4.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 124.1   | 0.3       |                         |      | G2/225  |
| 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°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12617.5 | 12617.5 | 12617.5 | 12617.5 | 12617.5 | 12617.5 | 12617.5 | 12617.5 | 12617.5 | 12617.5 | 12617.5 |
| 2.5°  | 13604.3 | 13622.4 | 13738.9 | 14078.2 | 14311.3 | 14396.7 | 14456.3 | 14344.9 | 14236.2 | 13972.0 | 13573.2 |
| 5°    | 13562.8 | 13669.0 | 13972.0 | 14733.4 | 15334.3 | 15593.2 | 15670.9 | 15336.8 | 14785.2 | 14106.7 | 13290.9 |
| 7.5°  | 12770.3 | 12912.8 | 13378.9 | 14655.7 | 15715.0 | 16321.0 | 16240.7 | 15637.3 | 14642.8 | 13433.3 | 12293.8 |
| 10°   | 11830.2 | 11988.2 | 12550.2 | 14093.7 | 15458.6 | 16292.5 | 16292.5 | 15557.0 | 14236.2 | 12798.8 | 11485.8 |
| 12.5° | 11084.4 | 11250.1 | 11892.4 | 13516.2 | 14925.1 | 15715.0 | 15847.0 | 15215.1 | 13943.5 | 12397.4 | 10954.9 |
| 15°   | 10838.3 | 10998.9 | 11690.4 | 13166.6 | 14360.5 | 14842.2 | 14886.2 | 14679.0 | 13801.1 | 12425.9 | 10931.6 |
| 17.5° | 11143.9 | 11351.1 | 12050.4 | 13270.2 | 13842.5 | 13871.0 | 13904.7 | 14067.8 | 13816.6 | 12946.4 | 11402.9 |
| 20°   | 12027.1 | 12249.8 | 12980.1 | 13604.3 | 13389.3 | 13094.1 | 13112.2 | 13531.7 | 14000.5 | 13806.3 | 12529.5 |
| 22.5° | 13301.3 | 13495.5 | 14243.9 | 14192.1 | 13197.7 | 12589.1 | 12462.2 | 13047.5 | 14272.4 | 14878.4 | 13728.6 |
| 25°   | 14676.4 | 14904.3 | 15764.2 | 15064.9 | 13252.0 | 12288.6 | 12208.4 | 12762.6 | 14554.7 | 15880.7 | 15114.1 |
| 27.5° | 16251.0 | 16473.8 | 17152.3 | 15945.4 | 13536.9 | 12265.3 | 12169.5 | 12736.7 | 14808.5 | 16807.9 | 16437.5 |
| 30°   | 17421.6 | 17626.2 | 18087.2 | 16686.1 | 13886.5 | 12420.7 | 12301.6 | 12941.3 | 15026.1 | 17442.4 | 17727.2 |
| 32.5° | 18341.0 | 18553.4 | 18804.6 | 17147.1 | 14347.5 | 12703.0 | 12482.9 | 13314.2 | 15310.9 | 17926.6 | 18682.9 |
| 35°   | 19299.2 | 19550.5 | 19532.3 | 17556.3 | 14777.4 | 13029.3 | 12814.4 | 13852.9 | 15759.0 | 18348.8 | 19894.9 |
| 37.5° | 20513.9 | 20614.9 | 20485.4 | 17924.1 | 15292.8 | 13617.2 | 13498.1 | 14653.1 | 16396.1 | 18859.0 | 21311.5 |
| 40°   | 21746.6 | 21948.6 | 21283.0 | 18369.5 | 15919.5 | 14723.1 | 14710.1 | 15836.7 | 17152.3 | 19457.2 | 22684.1 |
| 42.5° | 22803.3 | 22974.2 | 22028.9 | 18758.0 | 16678.4 | 16072.3 | 16170.8 | 17424.2 | 18144.2 | 20151.3 | 23787.4 |
| 45°   | 23598.3 | 23751.1 | 22717.8 | 19133.5 | 17678.0 | 17631.4 | 18211.5 | 19125.7 | 19395.1 | 20775.4 | 24434.8 |
| 47.5° | 24274.3 | 24421.9 | 23196.9 | 19703.3 | 18913.4 | 19493.5 | 20503.5 | 20899.7 | 20464.7 | 21132.8 | 25160.0 |
| 50°   | 24844.0 | 24888.1 | 23525.8 | 20381.8 | 20446.5 | 21775.1 | 22754.0 | 23010.4 | 21521.3 | 21645.6 | 25789.3 |
| 52.5° | 25437.1 | 25380.1 | 24093.0 | 21236.4 | 22104.0 | 23940.2 | 24652.4 | 24919.1 | 22533.9 | 22277.5 | 26706.1 |
| 55°   | 26765.7 | 26820.0 | 25364.6 | 22313.8 | 23779.6 | 26066.4 | 27003.9 | 26747.5 | 23655.3 | 23440.3 | 27871.5 |
| 57.5° | 28371.3 | 28324.7 | 27154.1 | 23999.7 | 25486.3 | 28045.0 | 28744.3 | 28332.5 | 25152.2 | 25038.3 | 29052.5 |
| 60°   | 28995.5 | 29057.6 | 28651.0 | 25812.6 | 27169.7 | 29777.6 | 30492.4 | 29852.7 | 26946.9 | 26895.2 | 29943.4 |
| 62.5° | 28368.8 | 28718.4 | 28992.9 | 27426.1 | 28604.4 | 31051.8 | 31761.4 | 31031.1 | 28819.4 | 29194.9 | 30567.5 |
| 65°   | 27120.5 | 27195.6 | 28130.5 | 28793.5 | 29295.9 | 31261.6 | 31631.9 | 31243.4 | 30383.6 | 31290.1 | 30539.0 |
| 67.5° | 25499.2 | 25564.0 | 26659.5 | 29241.5 | 28405.0 | 28878.9 | 29137.9 | 29024.0 | 29899.3 | 32007.4 | 29132.7 |
| 70°   | 23955.7 | 23903.9 | 25061.6 | 28099.4 | 24727.5 | 24007.5 | 24222.5 | 23865.1 | 25799.7 | 30254.1 | 26374.6 |
| 72.5° | 20951.5 | 21138.0 | 22381.1 | 24924.3 | 19578.9 | 18408.4 | 18877.1 | 17952.5 | 19843.1 | 25911.0 | 21407.3 |
| 75°   | 16411.6 | 16455.6 | 18530.1 | 20917.9 | 14769.7 | 12923.1 | 13557.6 | 13171.8 | 15199.6 | 21614.5 | 14782.6 |
| 77.5° | 11364.1 | 11265.7 | 13495.5 | 15976.5 | 10532.7 | 9460.6  | 9470.9  | 9287.0  | 10613.0 | 15914.4 | 10043.3 |
| 80°   | 7217.8  | 7067.6  | 8448.0  | 9869.8  | 7238.5  | 7743.5  | 7489.7  | 7482.0  | 6909.6  | 9818.0  | 6073.1  |
| 82.5° | 3900.3  | 4066.0  | 5337.6  | 6187.1  | 5192.6  | 5985.0  | 5485.2  | 5324.6  | 4741.9  | 6145.6  | 3884.7  |
| 85°   | 1776.6  | 1932.0  | 2846.2  | 4208.4  | 3944.3  | 3988.3  | 2664.9  | 3144.0  | 3923.6  | 4990.6  | 2074.4  |
| 87.5° | 173.5   | 222.7   | 587.9   | 1986.4  | 1346.7  | 1061.8  | 396.2   | 764.0   | 986.7   | 1774.0  | 165.7   |
| 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°    | 12617.5 | 12617.5 | 12617.5 | 12617.5 | 12617.5 | 12617.5 | 12617.5 | 12617.5 | 12617.5 | 12617.5 | 12617.5 |
| 2.5°  | 13410.0 | 13275.4 | 12817.0 | 12438.8 | 12037.4 | 11731.8 | 11333.0 | 11066.2 | 10882.4 | 10605.3 | 10571.6 |
| 5°    | 12793.6 | 12464.7 | 11667.1 | 10853.9 | 10152.0 | 9623.7  | 9087.6  | 8595.6  | 8305.5  | 8214.9  | 8098.3  |
| 7.5°  | 11755.1 | 11200.9 | 10175.4 | 9243.0  | 8437.6  | 7650.3  | 7044.3  | 6614.4  | 6326.9  | 6158.6  | 5956.6  |
| 10°   | 10900.5 | 10258.2 | 9009.9  | 7867.8  | 7204.8  | 6715.4  | 6181.9  | 5720.9  | 5366.1  | 5063.1  | 4897.3  |
| 12.5° | 10325.6 | 9600.4  | 8196.7  | 7269.6  | 6756.8  | 6236.3  | 5612.1  | 5094.2  | 4571.0  | 4226.6  | 4078.9  |
| 15°   | 10152.0 | 9385.5  | 7945.5  | 6971.8  | 6236.3  | 5555.1  | 4855.9  | 4179.9  | 3662.0  | 3335.7  | 3226.9  |
| 17.5° | 10576.8 | 9649.6  | 7942.9  | 6575.5  | 5625.1  | 4811.9  | 3915.8  | 3281.3  | 2750.4  | 2506.9  | 2429.2  |
| 20°   | 11369.3 | 10157.2 | 7966.2  | 6184.5  | 4962.1  | 3817.4  | 2848.8  | 2328.2  | 2074.4  | 1970.8  | 1932.0  |
| 22.5° | 12475.1 | 10931.6 | 8036.2  | 5798.6  | 4236.9  | 2931.7  | 2134.0  | 1869.8  | 1779.2  | 1761.1  | 1753.3  |
| 25°   | 13837.3 | 11889.8 | 8271.8  | 5451.5  | 3625.7  | 2237.6  | 1784.4  | 1665.2  | 1613.5  | 1595.3  | 1592.7  |
| 27.5° | 15090.8 | 13127.7 | 8556.7  | 5153.7  | 3035.3  | 1929.4  | 1613.5  | 1512.4  | 1460.7  | 1458.1  | 1463.2  |
| 30°   | 16222.6 | 14163.7 | 8795.0  | 4819.6  | 2587.2  | 1714.5  | 1502.1  | 1401.1  | 1351.9  | 1349.3  | 1364.8  |
| 32.5° | 17201.5 | 15015.7 | 8971.1  | 4490.7  | 2338.6  | 1582.4  | 1401.1  | 1292.3  | 1250.9  | 1243.1  | 1250.9  |
| 35°   | 18247.8 | 15865.2 | 8890.8  | 4234.3  | 2196.2  | 1473.6  | 1326.0  | 1219.8  | 1170.6  | 1147.3  | 1147.3  |
| 37.5° | 19441.7 | 16740.5 | 8753.5  | 4022.0  | 2131.4  | 1383.0  | 1261.2  | 1157.6  | 1108.4  | 1085.1  | 1082.5  |
| 40°   | 20744.4 | 17615.9 | 8564.5  | 3832.9  | 2066.7  | 1328.6  | 1217.2  | 1108.4  | 1048.9  | 1025.6  | 1020.4  |
| 42.5° | 21894.2 | 18364.3 | 8409.1  | 3708.6  | 1960.5  | 1338.9  | 1178.4  | 1072.2  | 997.1   | 966.0   | 963.4   |
| 45°   | 22893.9 | 19118.0 | 8380.6  | 3636.1  | 1872.4  | 1323.4  | 1168.0  | 1043.7  | 955.6   | 922.0   | 916.8   |
| 47.5° | 23676.0 | 19902.7 | 8543.8  | 3594.7  | 1776.6  | 1240.5  | 1235.3  | 1025.6  | 919.4   | 883.1   | 877.9   |
| 50°   | 24629.1 | 21016.3 | 8916.7  | 3509.2  | 1688.6  | 1162.8  | 1305.3  | 1023.0  | 890.9   | 844.3   | 831.3   |
| 52.5° | 25898.1 | 22466.6 | 9421.7  | 3356.4  | 1561.7  | 1090.3  | 1245.7  | 1023.0  | 857.2   | 810.6   | 795.1   |
| 55°   | 27817.1 | 24315.7 | 9916.4  | 3141.4  | 1383.0  | 994.5   | 1124.0  | 991.9   | 808.0   | 766.6   | 756.2   |
| 57.5° | 29088.7 | 25667.6 | 10232.3 | 2843.6  | 1160.2  | 924.6   | 968.6   | 942.7   | 758.8   | 714.8   | 714.8   |
| 60°   | 29153.5 | 26030.2 | 10082.1 | 2468.1  | 1020.4  | 859.8   | 841.7   | 950.5   | 714.8   | 668.2   | 663.0   |
| 62.5° | 28407.6 | 25141.9 | 9300.0  | 2131.4  | 945.3   | 789.9   | 761.4   | 833.9   | 670.8   | 624.1   | 616.4   |
| 65°   | 27242.2 | 22875.8 | 7942.9  | 1970.8  | 903.8   | 727.7   | 686.3   | 683.7   | 624.1   | 580.1   | 569.8   |
| 67.5° | 25100.4 | 19990.7 | 6526.3  | 1877.6  | 883.1   | 657.8   | 619.0   | 606.0   | 569.8   | 533.5   | 528.3   |
| 70°   | 21943.4 | 16743.1 | 5234.0  | 1838.8  | 872.8   | 585.3   | 554.2   | 538.7   | 507.6   | 479.1   | 476.5   |
| 72.5° | 17072.0 | 13581.0 | 4319.8  | 1812.9  | 867.6   | 518.0   | 484.3   | 463.6   | 445.4   | 419.5   | 419.5   |
| 75°   | 12262.7 | 9991.5  | 3296.8  | 1634.2  | 802.8   | 445.4   | 409.2   | 396.2   | 370.3   | 349.6   | 354.8   |
| 77.5° | 7730.6  | 6728.3  | 2170.3  | 1201.7  | 621.6   | 357.4   | 326.3   | 318.5   | 297.8   | 269.3   | 287.5   |
| 80°   | 5221.1  | 4731.6  | 1266.4  | 756.2   | 391.1   | 261.6   | 251.2   | 248.6   | 225.3   | 194.2   | 196.8   |
| 82.5° | 3553.2  | 3485.9  | 657.8   | 429.9   | 225.3   | 152.8   | 147.6   | 152.8   | 126.9   | 103.6   | 103.6   |
| 85°   | 1388.1  | 1895.7  | 310.8   | 168.3   | 72.5    | 23.3    | 33.7    | 36.3    | 20.7    | 10.4    | 12.9    |
| 87.5° | 25.9    | 194.2   | 7.8     | 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°    | 12617.5 | 12617.5 | 12617.5 | 12617.5 | 12617.5 | 12617.5 | 12617.5 | 12617.5 | 12617.5 | 12617.5 | 12617.5 |
| 2.5°  | 10519.8 | 10496.5 | 10535.3 | 10369.6 | 10403.3 | 10465.4 | 10496.5 | 10514.6 | 10771.0 | 10711.4 | 10874.6 |
| 5°    | 8207.1  | 8183.8  | 8334.0  | 8354.7  | 8432.4  | 8416.9  | 8492.0  | 8510.1  | 8603.3  | 8637.0  | 8864.9  |
| 7.5°  | 5969.5  | 6070.5  | 6241.4  | 6329.5  | 6461.6  | 6503.0  | 6464.2  | 6560.0  | 6365.7  | 6505.6  | 6547.0  |
| 10°   | 4796.3  | 4674.6  | 4602.1  | 4804.1  | 4830.0  | 5021.6  | 4943.9  | 4881.8  | 4995.7  | 5000.9  | 5109.7  |
| 12.5° | 3993.5  | 3731.9  | 3558.4  | 3615.4  | 3677.5  | 3760.4  | 3773.3  | 3897.7  | 3980.5  | 4058.2  | 4123.0  |
| 15°   | 3131.1  | 3040.4  | 2882.5  | 2804.8  | 2892.8  | 2926.5  | 3006.8  | 3110.4  | 3198.4  | 3221.7  | 3309.8  |
| 17.5° | 2403.3  | 2418.9  | 2393.0  | 2346.4  | 2400.8  | 2426.6  | 2431.8  | 2434.4  | 2457.7  | 2442.2  | 2571.7  |
| 20°   | 1934.6  | 1989.0  | 2053.7  | 2064.1  | 2082.2  | 2095.2  | 2071.8  | 1983.8  | 1986.4  | 2040.8  | 2082.2  |
| 22.5° | 1750.7  | 1761.1  | 1833.6  | 1856.9  | 1913.9  | 1890.6  | 1823.2  | 1781.8  | 1776.6  | 1789.6  | 1810.3  |
| 25°   | 1605.7  | 1621.2  | 1673.0  | 1709.3  | 1753.3  | 1711.9  | 1662.7  | 1623.8  | 1618.6  | 1631.6  | 1652.3  |
| 27.5° | 1476.2  | 1499.5  | 1546.1  | 1582.4  | 1623.8  | 1585.0  | 1538.3  | 1504.7  | 1502.1  | 1499.5  | 1512.4  |
| 30°   | 1372.6  | 1398.5  | 1432.2  | 1473.6  | 1502.1  | 1468.4  | 1424.4  | 1406.3  | 1403.7  | 1398.5  | 1403.7  |
| 32.5° | 1269.0  | 1310.4  | 1344.1  | 1364.8  | 1393.3  | 1367.4  | 1333.8  | 1323.4  | 1305.3  | 1289.7  | 1282.0  |
| 35°   | 1152.5  | 1196.5  | 1248.3  | 1274.2  | 1302.7  | 1276.8  | 1253.5  | 1209.4  | 1178.4  | 1175.8  | 1181.0  |
| 37.5° | 1085.1  | 1103.3  | 1144.7  | 1188.7  | 1217.2  | 1204.3  | 1160.2  | 1116.2  | 1108.4  | 1108.4  | 1113.6  |
| 40°   | 1025.6  | 1033.3  | 1051.5  | 1108.4  | 1160.2  | 1121.4  | 1067.0  | 1054.1  | 1054.1  | 1051.5  | 1054.1  |
| 42.5° | 966.0   | 973.8   | 973.8   | 1017.8  | 1100.7  | 1038.5  | 997.1   | 997.1   | 997.1   | 999.7   | 1007.4  |
| 45°   | 911.6   | 914.2   | 911.6   | 942.7   | 1020.4  | 968.6   | 940.1   | 947.9   | 953.0   | 958.2   | 963.4   |
| 47.5° | 865.0   | 867.6   | 865.0   | 890.9   | 929.7   | 909.0   | 893.5   | 903.8   | 914.2   | 922.0   | 927.2   |
| 50°   | 823.6   | 821.0   | 826.1   | 841.7   | 859.8   | 865.0   | 854.6   | 870.2   | 875.4   | 885.7   | 898.7   |
| 52.5° | 787.3   | 784.7   | 789.9   | 797.7   | 823.6   | 823.6   | 823.6   | 836.5   | 846.9   | 857.2   | 875.4   |
| 55°   | 745.9   | 748.5   | 756.2   | 766.6   | 800.3   | 795.1   | 797.7   | 808.0   | 818.4   | 833.9   | 844.3   |
| 57.5° | 707.0   | 712.2   | 722.6   | 738.1   | 771.8   | 769.2   | 771.8   | 776.9   | 789.9   | 797.7   | 808.0   |
| 60°   | 663.0   | 673.3   | 686.3   | 696.7   | 730.3   | 727.7   | 740.7   | 751.0   | 758.8   | 758.8   | 764.0   |
| 62.5° | 619.0   | 634.5   | 647.5   | 655.2   | 691.5   | 694.1   | 712.2   | 720.0   | 725.1   | 720.0   | 727.7   |
| 65°   | 574.9   | 598.2   | 603.4   | 613.8   | 650.0   | 652.6   | 673.3   | 691.5   | 686.3   | 681.1   | 694.1   |
| 67.5° | 530.9   | 559.4   | 556.8   | 569.8   | 606.0   | 611.2   | 629.3   | 660.4   | 650.0   | 644.9   | 655.2   |
| 70°   | 481.7   | 502.4   | 505.0   | 512.8   | 562.0   | 554.2   | 582.7   | 611.2   | 603.4   | 606.0   | 606.0   |
| 72.5° | 427.3   | 445.4   | 445.4   | 461.0   | 512.8   | 499.8   | 523.1   | 554.2   | 554.2   | 551.6   | 551.6   |
| 75°   | 362.6   | 372.9   | 383.3   | 406.6   | 461.0   | 445.4   | 461.0   | 489.5   | 494.7   | 489.5   | 489.5   |
| 77.5° | 292.6   | 308.2   | 313.4   | 344.4   | 383.3   | 380.7   | 396.2   | 409.2   | 419.5   | 414.4   | 414.4   |
| 80°   | 207.2   | 222.7   | 243.4   | 277.1   | 300.4   | 308.2   | 316.0   | 326.3   | 331.5   | 331.5   | 336.7   |
| 82.5° | 116.5   | 139.8   | 158.0   | 191.6   | 202.0   | 240.9   | 238.3   | 246.0   | 238.3   | 209.8   | 233.1   |
| 85°   | 25.9    | 49.2    | 69.9    | 88.1    | 101.0   | 139.8   | 147.6   | 165.7   | 137.3   | 126.9   | 126.9   |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 20.7    | 41.4    | 57.0    | 49.2    | 41.4    | 41.4    |
| 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°    | 12617.5 | 12617.5 | 12617.5 | 12617.5 | 12617.5 | 12617.5 | 12617.5 | 12617.5 | 12617.5 | 12617.5 |
| 2.5°  | 11011.9 | 11237.2 | 11509.1 | 11977.9 | 12306.8 | 12661.6 | 13019.0 | 13399.7 | 13500.7 | 13604.3 |
| 5°    | 8927.1  | 9369.9  | 9610.8  | 10240.1 | 10900.5 | 11739.6 | 12425.9 | 13176.9 | 13490.3 | 13562.8 |
| 7.5°  | 6762.0  | 7062.4  | 7694.3  | 8331.4  | 9149.8  | 10030.3 | 11081.8 | 12252.4 | 12617.5 | 12770.3 |
| 10°   | 5360.9  | 5770.1  | 6324.3  | 7008.0  | 7725.4  | 8673.3  | 9859.4  | 11226.8 | 11744.8 | 11830.2 |
| 12.5° | 4563.2  | 5019.0  | 5622.5  | 6345.0  | 7023.6  | 7738.3  | 8934.8  | 10346.3 | 10900.5 | 11084.4 |
| 15°   | 3649.0  | 4200.7  | 4897.3  | 5658.7  | 6396.8  | 7178.9  | 8391.0  | 9983.7  | 10623.4 | 10838.3 |
| 17.5° | 2866.9  | 3312.4  | 4066.0  | 4892.1  | 5767.5  | 6756.8  | 8277.0  | 10157.2 | 10944.5 | 11143.9 |
| 20°   | 2193.6  | 2512.1  | 3146.6  | 4019.4  | 5044.9  | 6339.8  | 8305.5  | 10812.4 | 11755.1 | 12027.1 |
| 22.5° | 1895.7  | 2058.9  | 2444.8  | 3276.1  | 4423.4  | 5977.3  | 8422.1  | 11711.1 | 12848.0 | 13301.3 |
| 25°   | 1717.0  | 1802.5  | 2020.0  | 2563.9  | 3830.3  | 5625.1  | 8688.8  | 12920.5 | 14376.0 | 14676.4 |
| 27.5° | 1564.2  | 1626.4  | 1761.1  | 2152.1  | 3291.6  | 5298.7  | 8999.6  | 14262.1 | 15803.0 | 16251.0 |
| 30°   | 1419.2  | 1502.1  | 1629.0  | 1911.3  | 2947.2  | 5000.9  | 9390.6  | 15349.8 | 17004.7 | 17421.6 |
| 32.5° | 1307.9  | 1390.7  | 1507.3  | 1742.9  | 2654.6  | 4687.6  | 9623.7  | 16305.4 | 17986.2 | 18341.0 |
| 35°   | 1217.2  | 1287.1  | 1408.9  | 1608.3  | 2431.8  | 4449.3  | 9577.1  | 17064.2 | 18936.7 | 19299.2 |
| 37.5° | 1152.5  | 1212.0  | 1333.8  | 1481.4  | 2263.5  | 4200.7  | 9553.8  | 18066.5 | 20094.3 | 20513.9 |
| 40°   | 1092.9  | 1155.1  | 1266.4  | 1398.5  | 2095.2  | 3908.0  | 9566.7  | 19061.0 | 21327.1 | 21746.6 |
| 42.5° | 1046.3  | 1116.2  | 1206.9  | 1375.2  | 1921.6  | 3672.3  | 9566.7  | 19926.0 | 22399.2 | 22803.3 |
| 45°   | 1007.4  | 1082.5  | 1170.6  | 1372.6  | 1784.4  | 3493.7  | 9502.0  | 20669.3 | 23253.9 | 23598.3 |
| 47.5° | 973.8   | 1056.6  | 1183.5  | 1326.0  | 1750.7  | 3364.2  | 9445.0  | 21264.9 | 23950.5 | 24274.3 |
| 50°   | 950.5   | 1048.9  | 1258.6  | 1271.6  | 1761.1  | 3325.3  | 9719.5  | 22016.0 | 24564.3 | 24844.0 |
| 52.5° | 932.3   | 1051.5  | 1256.1  | 1191.3  | 1742.9  | 3351.2  | 10291.9 | 23189.1 | 25416.4 | 25437.1 |
| 55°   | 896.1   | 1048.9  | 1191.3  | 1100.7  | 1667.8  | 3395.2  | 11027.4 | 24893.2 | 26750.1 | 26765.7 |
| 57.5° | 859.8   | 1020.4  | 1105.8  | 1023.0  | 1515.0  | 3395.2  | 11913.1 | 26506.7 | 28358.4 | 28371.3 |
| 60°   | 823.6   | 1061.8  | 971.2   | 955.6   | 1315.6  | 3333.1  | 12848.0 | 27216.3 | 28863.4 | 28995.5 |
| 62.5° | 787.3   | 1069.6  | 867.6   | 896.1   | 1170.6  | 3182.9  | 13544.7 | 26431.6 | 28179.7 | 28368.8 |
| 65°   | 745.9   | 862.4   | 800.3   | 833.9   | 1095.5  | 2931.7  | 13324.6 | 24994.2 | 26895.2 | 27120.5 |
| 67.5° | 696.7   | 730.3   | 727.7   | 769.2   | 1069.6  | 2561.3  | 12164.3 | 23176.2 | 25512.2 | 25499.2 |
| 70°   | 637.1   | 655.2   | 663.0   | 707.0   | 1020.4  | 2273.9  | 10136.5 | 20816.9 | 23665.7 | 23955.7 |
| 72.5° | 574.9   | 590.5   | 598.2   | 637.1   | 971.2   | 2110.7  | 7867.8  | 17566.7 | 20498.3 | 20951.5 |
| 75°   | 507.6   | 518.0   | 528.3   | 562.0   | 919.4   | 1869.8  | 5604.3  | 13410.0 | 15699.4 | 16411.6 |
| 77.5° | 437.7   | 437.7   | 450.6   | 484.3   | 774.4   | 1543.5  | 3760.4  | 9406.2  | 10636.3 | 11364.1 |
| 80°   | 354.8   | 357.4   | 352.2   | 388.5   | 569.8   | 1056.6  | 2136.6  | 6282.9  | 7077.9  | 7217.8  |
| 82.5° | 271.9   | 264.2   | 266.8   | 284.9   | 424.7   | 720.0   | 1139.5  | 3902.8  | 3977.9  | 3900.3  |
| 85°   | 170.9   | 170.9   | 165.7   | 186.5   | 271.9   | 375.5   | 621.6   | 2390.4  | 1867.3  | 1776.6  |
| 87.5° | 69.9    | 57.0    | 64.7    | 75.1    | 129.5   | 152.8   | 243.4   | 492.1   | 189.1   | 173.5   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)