

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: P458415

Luminaire Tested: **GLAN-SA9D-750-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458415  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA9D-750-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 70530 lumens  
Efficiency: N/A  
Efficacy: 127.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5

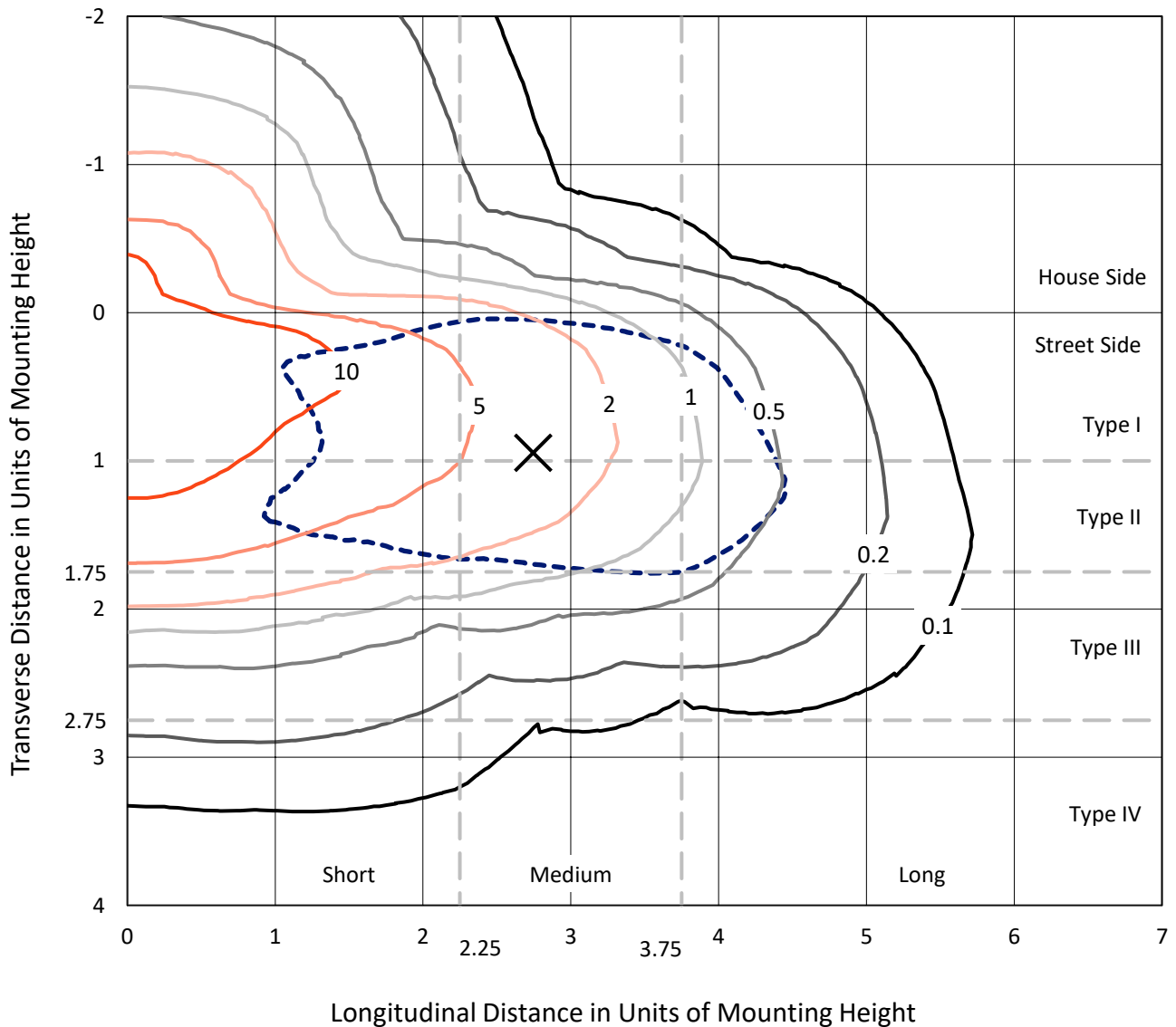
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

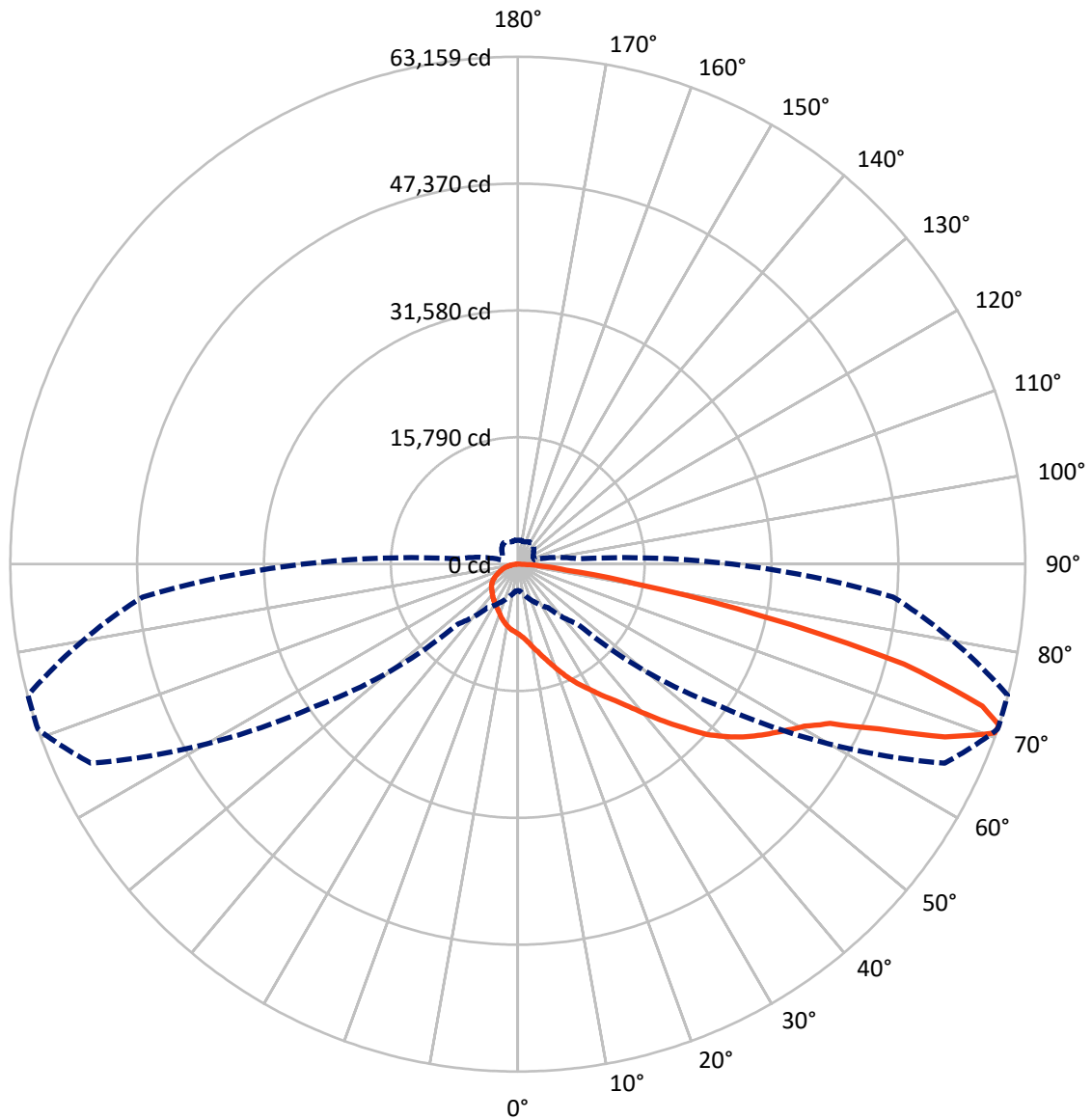
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12684.6  | 0.0    | 12684.6 |
|                    | % Fixture | 18.0     | 0.0    | 18.0    |
| <b>Street Side</b> | Lumens    | 57845.4  | 0.0    | 57845.4 |
|                    | % Fixture | 82.0     | 0.0    | 82.0    |
| <b>Total</b>       | Lumens    | 70530.0  | 0.0    | 70530.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 869.1   | 1.2       |
| 10°-20°   | 2823.8  | 4.0       |
| 20°-30°   | 4934.7  | 7.0       |
| 30°-40°   | 7339.8  | 10.4      |
| 40°-50°   | 10814.3 | 15.3      |
| 50°-60°   | 15140.1 | 21.5      |
| 60°-70°   | 16933.7 | 24.0      |
| 70°-80°   | 10343.8 | 14.7      |
| 80°-90°   | 1330.6  | 1.9       |
| 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°    | 70530.0 | 100.0     |
| 0°-180°   | 70530.0 | 100.0     |

**Coefficient of Utilization**



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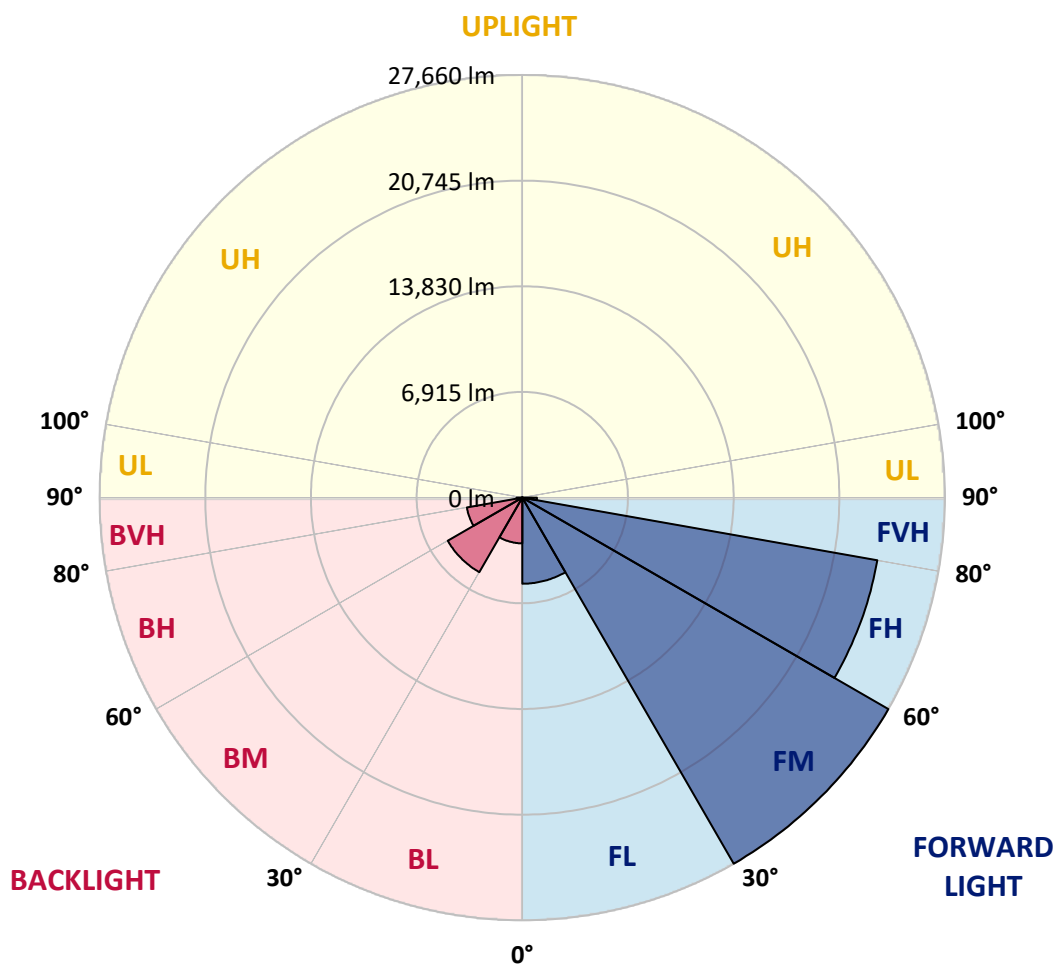
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 5635.4  | 8.0       |                         |      |         |
| FM   | (30°-60°)   | 27660.5 | 39.2      |                         |      |         |
| FH   | (60°-80°)   | 23592.1 | 33.4      |                         |      | G5      |
| FVH  | (80°-90°)   | 957.4   | 1.4       |                         |      | G5      |
| BL   | (0°-30°)    | 2992.3  | 4.2       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 5633.7  | 8.0       | B4/8500                 |      |         |
| BH   | (60°-80°)   | 3685.4  | 5.2       | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 373.2   | 0.5       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 71°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 8656.2  | 8656.2  | 8656.2  | 8656.2  | 8656.2  | 8656.2  | 8656.2  | 8656.2  | 8656.2  | 8656.2  | 8656.2  |
| 2.5°  | 9609.8  | 9563.3  | 9567.1  | 9501.2  | 9416.0  | 9322.9  | 9191.1  | 9074.8  | 8981.8  | 8927.5  | 8768.6  |
| 5°    | 10648.7 | 10602.2 | 10544.0 | 10400.6 | 10338.6 | 10109.8 | 9819.1  | 9555.5  | 9353.9  | 9241.5  | 8923.6  |
| 7.5°  | 11489.9 | 11478.2 | 11462.7 | 11381.3 | 11222.4 | 10904.5 | 10656.4 | 10199.0 | 9900.5  | 9687.3  | 9144.6  |
| 10°   | 12009.3 | 12028.7 | 12040.3 | 12055.8 | 11989.9 | 11823.2 | 11482.1 | 10904.5 | 10524.6 | 10253.3 | 9431.5  |
| 12.5° | 12272.9 | 12292.3 | 12358.2 | 12501.6 | 12590.8 | 12571.4 | 12292.3 | 11726.3 | 11203.0 | 10846.4 | 9737.7  |
| 15°   | 12435.7 | 12466.7 | 12583.0 | 12773.0 | 13071.5 | 13261.4 | 13125.7 | 12602.4 | 12028.7 | 11606.2 | 10102.1 |
| 17.5° | 12614.0 | 12648.9 | 12776.9 | 13048.2 | 13439.7 | 13850.6 | 13997.9 | 13548.3 | 12924.2 | 12420.2 | 10509.1 |
| 20°   | 12714.8 | 12761.4 | 12943.5 | 13300.2 | 13757.6 | 14354.6 | 14843.0 | 14606.6 | 13924.3 | 13366.1 | 10978.2 |
| 22.5° | 12877.6 | 12916.4 | 13071.5 | 13451.4 | 13997.9 | 14746.1 | 15688.1 | 15637.7 | 15036.8 | 14315.8 | 11493.7 |
| 25°   | 13319.6 | 13381.6 | 13459.1 | 13687.8 | 14215.0 | 15145.4 | 16389.7 | 16738.6 | 16114.5 | 15308.2 | 11966.7 |
| 27.5° | 14153.0 | 14203.4 | 14199.5 | 14230.5 | 14529.0 | 15490.4 | 16998.3 | 17827.9 | 17184.4 | 16312.2 | 12424.1 |
| 30°   | 15102.7 | 15122.1 | 15137.6 | 15067.9 | 15133.8 | 15843.1 | 17556.6 | 18905.6 | 18262.1 | 17343.3 | 12823.4 |
| 32.5° | 16257.9 | 16296.7 | 16164.9 | 15986.6 | 15932.3 | 16366.5 | 18017.9 | 19983.2 | 19537.4 | 18390.0 | 13218.8 |
| 35°   | 17622.5 | 17723.2 | 17455.8 | 17141.8 | 16920.8 | 17118.5 | 18638.1 | 21084.1 | 20843.8 | 19727.4 | 13742.1 |
| 37.5° | 19180.8 | 19304.8 | 19056.7 | 18440.4 | 18126.4 | 18180.7 | 19448.3 | 22444.8 | 22495.2 | 21250.8 | 14521.3 |
| 40°   | 20456.2 | 20619.0 | 20626.7 | 19754.5 | 19277.7 | 19339.7 | 20475.5 | 23910.1 | 24487.7 | 23134.8 | 15440.0 |
| 42.5° | 21297.3 | 21456.3 | 21623.0 | 21111.3 | 20611.2 | 20964.0 | 21673.4 | 25499.4 | 26728.3 | 25421.9 | 16723.1 |
| 45°   | 22219.9 | 22363.4 | 22456.4 | 22223.8 | 21944.7 | 22859.6 | 23119.3 | 27189.6 | 29116.2 | 27976.5 | 18126.4 |
| 47.5° | 23289.9 | 23448.8 | 23537.9 | 23317.0 | 23212.3 | 24522.6 | 24677.6 | 28767.3 | 31666.9 | 30457.5 | 19677.0 |
| 50°   | 24716.4 | 24836.6 | 24790.1 | 24650.5 | 24627.2 | 25797.9 | 26174.0 | 30244.2 | 33771.8 | 33128.3 | 21285.7 |
| 52.5° | 26491.8 | 26635.3 | 26685.6 | 26487.9 | 26398.8 | 26708.9 | 27379.5 | 31589.4 | 35686.8 | 35423.2 | 23003.0 |
| 55°   | 27565.6 | 27794.3 | 28561.9 | 28872.0 | 29085.2 | 27887.4 | 28678.2 | 33074.1 | 37404.1 | 37842.1 | 24848.2 |
| 57.5° | 26189.5 | 26484.1 | 28201.3 | 29751.9 | 31756.1 | 30833.5 | 30519.5 | 34624.7 | 39121.4 | 40187.4 | 27057.8 |
| 60°   | 22832.4 | 22898.3 | 25111.8 | 27968.8 | 32000.3 | 34620.8 | 34361.1 | 37090.1 | 40982.1 | 42552.1 | 29969.0 |
| 62.5° | 15839.3 | 15978.8 | 18595.4 | 23154.2 | 28984.4 | 35985.3 | 40896.8 | 41346.5 | 43649.1 | 46091.3 | 34237.0 |
| 65°   | 8167.7  | 7985.5  | 10369.6 | 14552.3 | 21851.7 | 32744.6 | 46192.1 | 49173.1 | 49432.8 | 51626.9 | 40245.6 |
| 67.5° | 5027.8  | 5109.2  | 6225.6  | 8497.2  | 12920.3 | 23797.7 | 45637.7 | 58736.3 | 57367.9 | 58422.3 | 45823.8 |
| 70°   | 3775.7  | 3876.5  | 4644.0  | 5814.7  | 7877.0  | 13606.4 | 36702.5 | 61054.5 | 62965.6 | 62694.2 | 47521.7 |
| 71°   | 3283.4  | 3388.0  | 4186.6  | 5291.4  | 6617.1  | 10501.4 | 30922.6 | 58627.8 | 63159.4 | 63112.9 | 46882.1 |
| 72.5° | 2798.8  | 2864.7  | 3488.8  | 4481.2  | 5578.2  | 7361.4  | 23231.7 | 52580.5 | 60465.2 | 62012.0 | 44598.8 |
| 75°   | 2198.0  | 2248.4  | 2527.5  | 3419.1  | 4392.0  | 4520.0  | 12466.7 | 39419.9 | 49661.5 | 52607.6 | 37128.9 |
| 77.5° | 1790.9  | 1825.8  | 1969.2  | 2539.1  | 3388.0  | 3202.0  | 6539.6  | 25658.4 | 31112.6 | 34078.1 | 21871.1 |
| 80°   | 1422.7  | 1461.4  | 1546.7  | 1721.2  | 2539.1  | 2283.2  | 3120.6  | 13001.7 | 15029.1 | 14998.1 | 8729.8  |
| 82.5° | 1104.8  | 1116.4  | 1217.2  | 1263.7  | 1736.7  | 1620.4  | 1690.1  | 5504.6  | 6097.7  | 6299.3  | 3151.6  |
| 85°   | 697.8   | 732.7   | 1077.7  | 969.1   | 1038.9  | 949.7   | 833.4   | 2186.3  | 2694.1  | 2655.4  | 1259.9  |
| 87.5° | 213.2   | 224.8   | 364.4   | 410.9   | 461.3   | 414.8   | 306.2   | 643.5   | 786.9   | 852.8   | 314.0   |
| 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°    | 8656.2  | 8656.2 | 8656.2 | 8656.2 | 8656.2 | 8656.2 | 8656.2 | 8656.2 | 8656.2 | 8656.2 | 8656.2 |
| 2.5°  | 8706.6  | 8663.9 | 8512.7 | 8388.7 | 8272.4 | 8144.5 | 8035.9 | 8004.9 | 7977.8 | 7966.2 | 7962.3 |
| 5°    | 8788.0  | 8660.0 | 8361.6 | 8117.3 | 7923.5 | 7745.2 | 7632.8 | 7582.4 | 7532.0 | 7532.0 | 7547.5 |
| 7.5°  | 8904.3  | 8671.7 | 8210.4 | 7846.0 | 7601.8 | 7435.1 | 7353.7 | 7345.9 | 7357.5 | 7369.2 | 7373.1 |
| 10°   | 9032.2  | 8663.9 | 7989.4 | 7535.9 | 7318.8 | 7241.3 | 7245.1 | 7311.0 | 7373.1 | 7419.6 | 7427.3 |
| 12.5° | 9156.2  | 8617.4 | 7729.7 | 7245.1 | 7105.6 | 7121.1 | 7229.6 | 7376.9 | 7497.1 | 7563.0 | 7566.9 |
| 15°   | 9295.8  | 8543.7 | 7415.7 | 6969.9 | 6923.4 | 7043.6 | 7245.1 | 7470.0 | 7652.2 | 7760.7 | 7772.3 |
| 17.5° | 9412.1  | 8419.7 | 7086.2 | 6702.4 | 6760.6 | 6981.5 | 7260.6 | 7551.4 | 7772.3 | 7908.0 | 7931.3 |
| 20°   | 9543.9  | 8260.8 | 6745.1 | 6446.6 | 6613.3 | 6911.8 | 7229.6 | 7543.6 | 7772.3 | 7904.1 | 7935.1 |
| 22.5° | 9648.5  | 8035.9 | 6419.4 | 6237.2 | 6481.5 | 6826.5 | 7125.0 | 7376.9 | 7563.0 | 7632.8 | 7679.3 |
| 25°   | 9691.2  | 7752.9 | 6113.2 | 6066.7 | 6376.8 | 6686.9 | 6888.5 | 7031.9 | 7090.1 | 7082.3 | 7101.7 |
| 27.5° | 9667.9  | 7427.3 | 5849.6 | 5931.0 | 6245.0 | 6469.8 | 6570.6 | 6559.0 | 6454.3 | 6357.4 | 6403.9 |
| 30°   | 9571.0  | 7039.7 | 5628.6 | 5791.5 | 6074.4 | 6198.5 | 6183.0 | 6031.8 | 5834.1 | 5651.9 | 5663.5 |
| 32.5° | 9396.6  | 6621.0 | 5423.2 | 5632.5 | 5834.1 | 5888.4 | 5783.7 | 5586.0 | 5303.0 | 5066.6 | 5031.7 |
| 35°   | 9249.3  | 6221.7 | 5241.0 | 5450.3 | 5593.8 | 5566.6 | 5465.8 | 5210.0 | 4954.1 | 4744.8 | 4709.9 |
| 37.5° | 9226.0  | 5880.6 | 5066.6 | 5244.9 | 5326.3 | 5287.5 | 5163.5 | 4946.4 | 4853.3 | 4694.4 | 4675.0 |
| 40°   | 9350.1  | 5640.3 | 4888.2 | 5027.8 | 5066.6 | 5035.5 | 4899.9 | 4775.8 | 4861.1 | 4822.3 | 4822.3 |
| 42.5° | 9687.3  | 5512.3 | 4729.3 | 4810.7 | 4841.7 | 4865.0 | 4768.1 | 4663.4 | 4768.1 | 4589.7 | 4531.6 |
| 45°   | 10222.3 | 5516.2 | 4585.9 | 4597.5 | 4690.5 | 4771.9 | 4706.0 | 4551.0 | 4496.7 | 4140.1 | 4070.3 |
| 47.5° | 11009.2 | 5648.0 | 4469.6 | 4395.9 | 4562.6 | 4698.3 | 4605.3 | 4380.4 | 4140.1 | 3903.6 | 3861.0 |
| 50°   | 11927.9 | 5884.5 | 4364.9 | 4186.6 | 4392.0 | 4605.3 | 4535.5 | 4271.9 | 4023.8 | 3880.4 | 3853.2 |
| 52.5° | 12947.4 | 6183.0 | 4237.0 | 3954.0 | 4182.7 | 4562.6 | 4551.0 | 4256.4 | 3915.2 | 3818.3 | 3795.1 |
| 55°   | 14207.3 | 6477.6 | 4078.1 | 3682.7 | 3996.6 | 4527.7 | 4508.3 | 4128.4 | 3892.0 | 3822.2 | 3814.5 |
| 57.5° | 15672.6 | 6904.0 | 3849.3 | 3407.4 | 3783.4 | 4384.3 | 4341.7 | 4050.9 | 3814.5 | 3764.1 | 3760.2 |
| 60°   | 18033.4 | 7566.9 | 3523.7 | 3155.4 | 3566.4 | 4132.3 | 4186.6 | 3919.1 | 3690.4 | 3678.8 | 3674.9 |
| 62.5° | 21138.4 | 8497.2 | 3186.5 | 2895.7 | 3314.4 | 3806.7 | 3961.8 | 3740.8 | 3558.6 | 3616.8 | 3624.5 |
| 65°   | 25425.8 | 9280.3 | 2837.6 | 2674.8 | 3035.3 | 3492.7 | 3748.6 | 3574.1 | 3411.3 | 3523.7 | 3523.7 |
| 67.5° | 28220.7 | 9295.8 | 2519.7 | 2446.1 | 2752.3 | 3229.1 | 3523.7 | 3376.4 | 3221.3 | 3411.3 | 3419.1 |
| 70°   | 27639.3 | 8144.5 | 2256.1 | 2205.7 | 2477.1 | 2946.1 | 3275.6 | 3159.3 | 2981.0 | 3151.6 | 3089.5 |
| 71°   | 26701.2 | 7504.9 | 2151.4 | 2112.7 | 2368.5 | 2810.4 | 3159.3 | 3062.4 | 2884.1 | 2996.5 | 2961.6 |
| 72.5° | 25204.8 | 6516.4 | 1980.9 | 1988.6 | 2205.7 | 2639.9 | 2996.5 | 2895.7 | 2717.4 | 2779.4 | 2767.8 |
| 75°   | 21305.1 | 5690.7 | 1694.0 | 1728.9 | 1895.6 | 2349.1 | 2670.9 | 2593.4 | 2411.2 | 2411.2 | 2399.5 |
| 77.5° | 13319.6 | 3977.3 | 1407.2 | 1426.5 | 1608.7 | 2011.9 | 2294.9 | 2229.0 | 2054.5 | 1996.4 | 1980.9 |
| 80°   | 4969.6  | 2054.5 | 1100.9 | 1124.2 | 1236.6 | 1585.5 | 1899.5 | 1837.4 | 1659.1 | 1593.2 | 1531.2 |
| 82.5° | 1880.1  | 1031.1 | 810.2  | 790.8  | 911.0  | 1209.5 | 1488.6 | 1414.9 | 1275.4 | 1116.4 | 1069.9 |
| 85°   | 709.4   | 511.7  | 496.2  | 480.7  | 535.0  | 717.1  | 922.6  | 907.1  | 759.8  | 647.4  | 635.7  |
| 87.5° | 186.1   | 166.7  | 193.8  | 143.4  | 151.2  | 135.7  | 139.6  | 58.1   | 27.1   | 11.6   | 7.8    |
| 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)