

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: P458067

Luminaire Tested: **GLAN-SA9C-722-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458067  
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-SA9C-722-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47120 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 481  
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

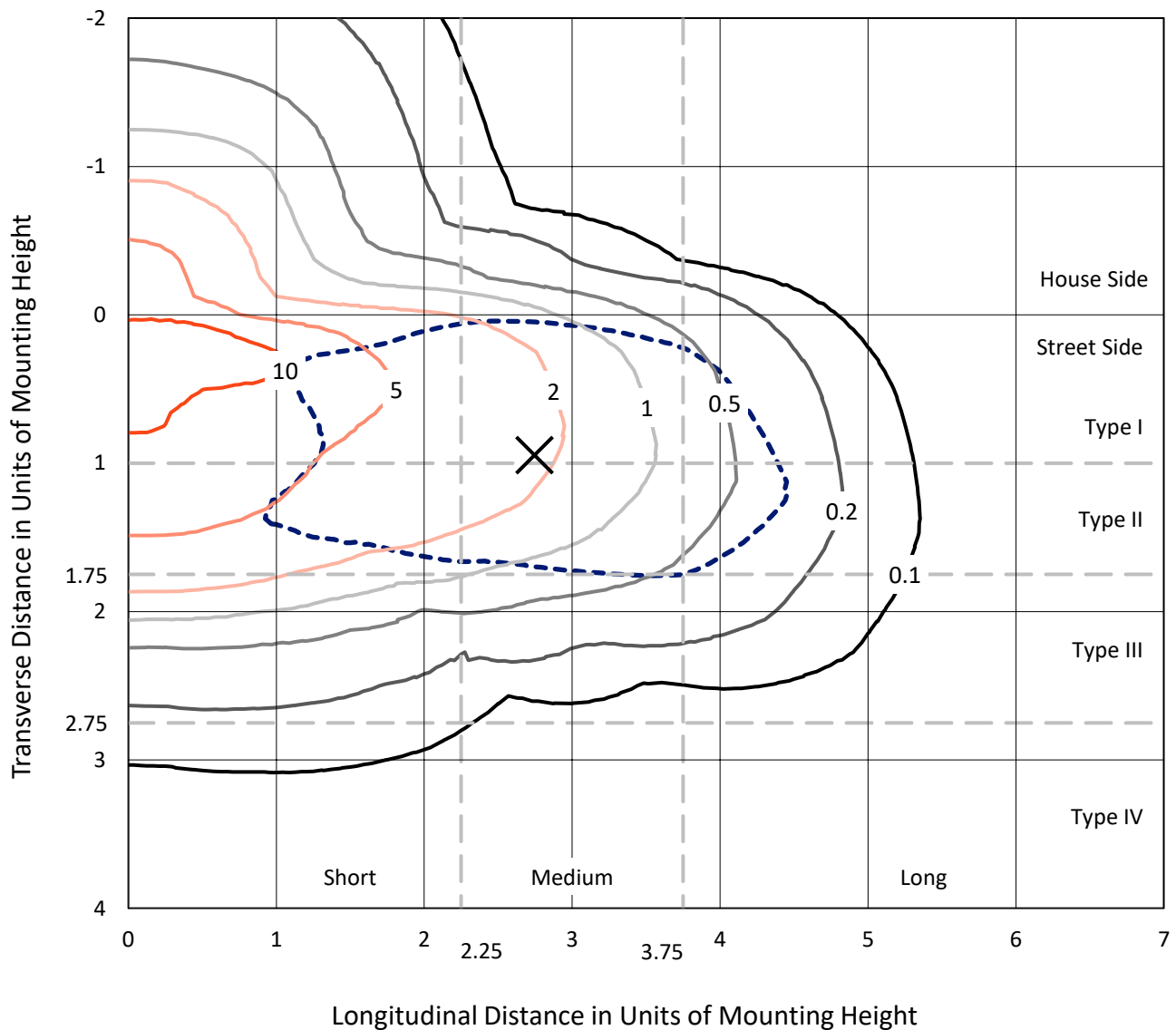


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

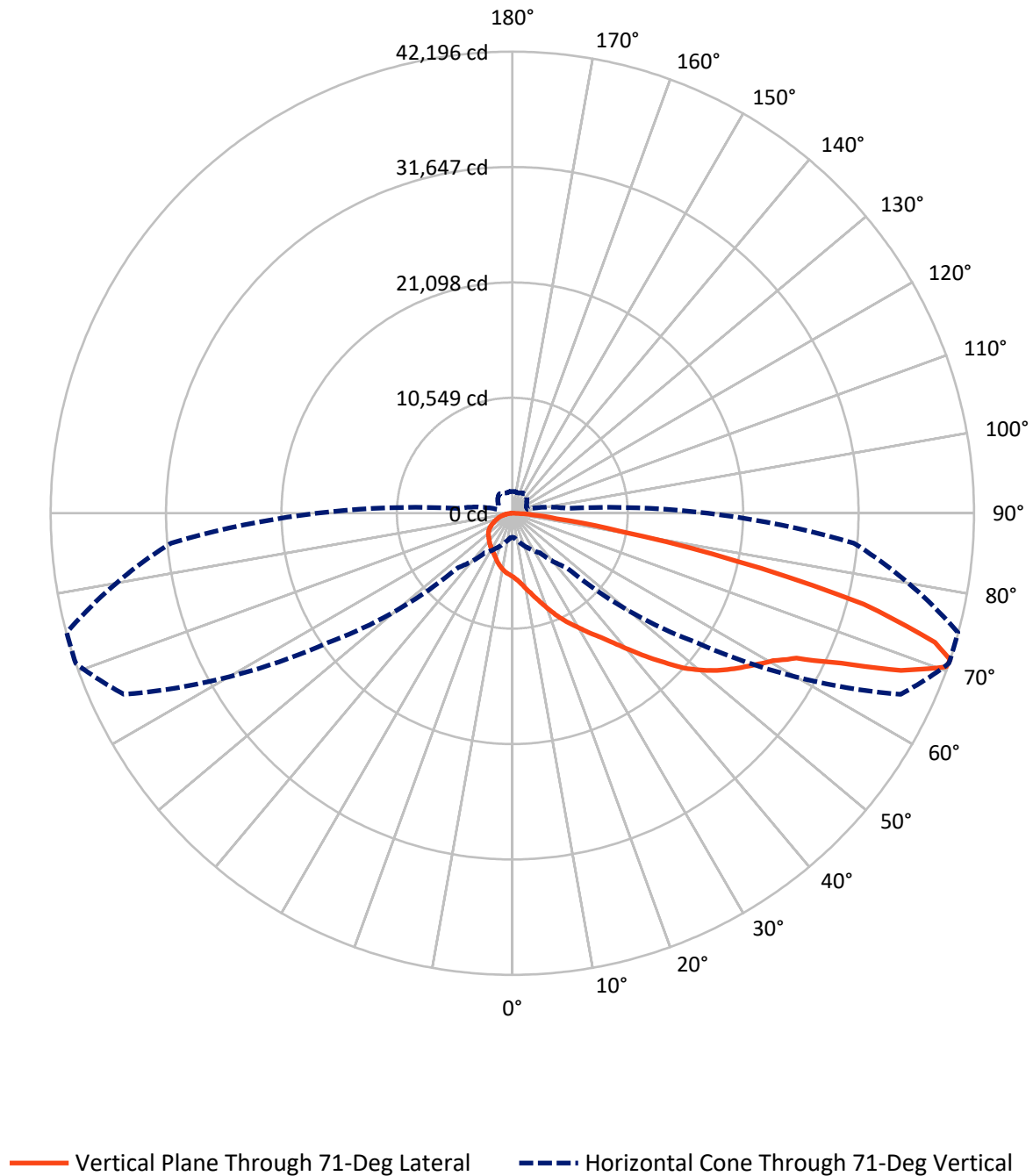


Based on 25 foot mounting height. Maximum calculated value = 13.1 fc  
 Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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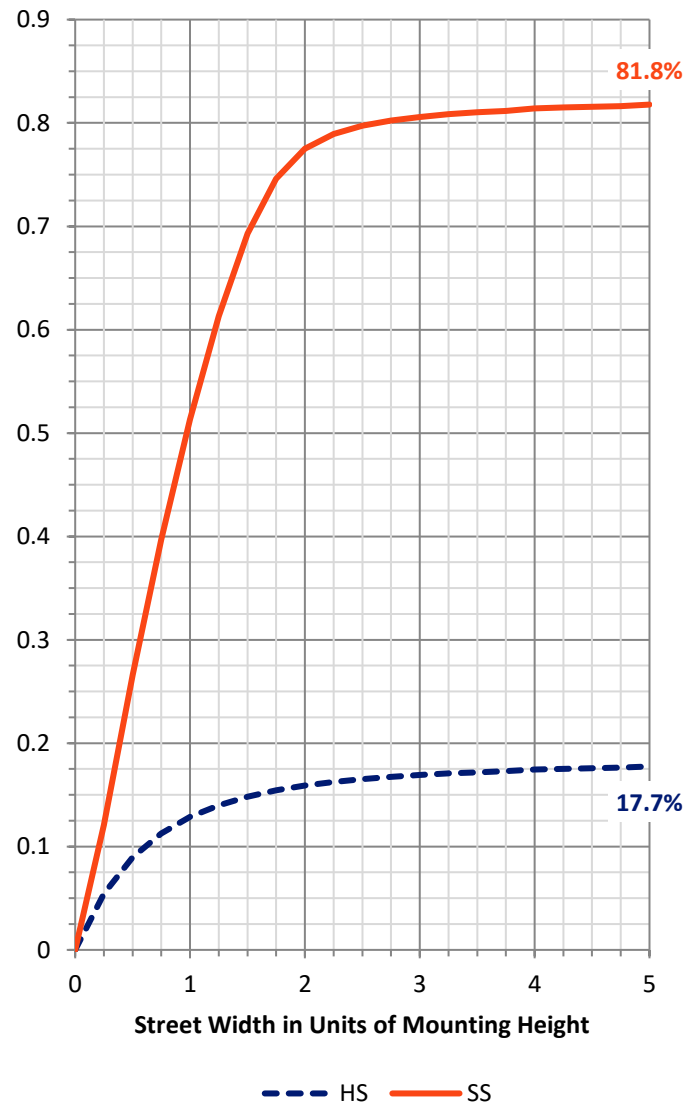
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8474.4   | 0.0    | 8474.4  |
|                    | % Fixture | 18.0     | 0.0    | 18.0    |
| <b>Street Side</b> | Lumens    | 38645.6  | 0.0    | 38645.6 |
|                    | % Fixture | 82.0     | 0.0    | 82.0    |
| <b>Total</b>       | Lumens    | 47120.0  | 0.0    | 47120.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 580.7   | 1.2       |
| 10°-20°   | 1886.5  | 4.0       |
| 20°-30°   | 3296.8  | 7.0       |
| 30°-40°   | 4903.6  | 10.4      |
| 40°-50°   | 7224.8  | 15.3      |
| 50°-60°   | 10114.9 | 21.5      |
| 60°-70°   | 11313.2 | 24.0      |
| 70°-80°   | 6910.5  | 14.7      |
| 80°-90°   | 889.0   | 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°    | 47120.0 | 100.0     |
| 0°-180°   | 47120.0 | 100.0     |

**Coefficient of Utilization**



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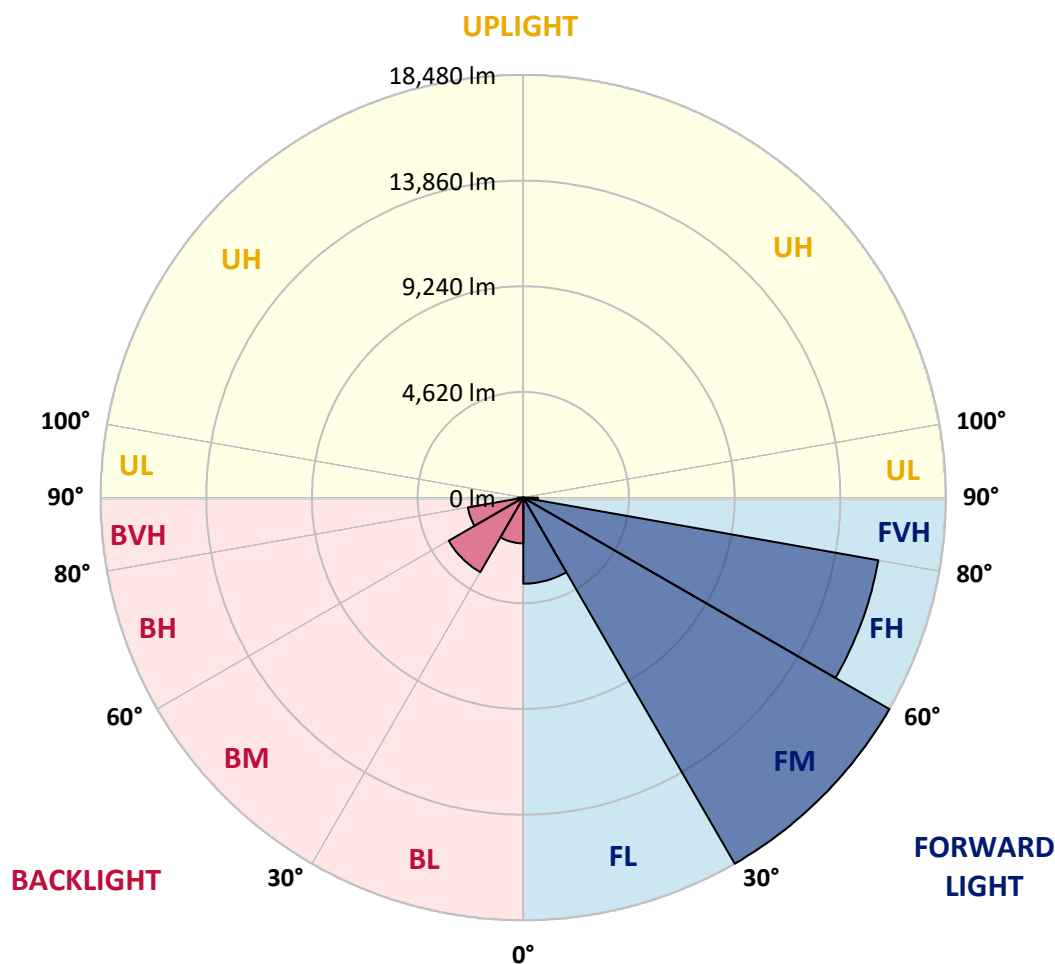
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3764.9  | 8.0       |                         |      |         |
| FM   | (30°-60°)   | 18479.5 | 39.2      |                         |      |         |
| FH   | (60°-80°)   | 15761.5 | 33.4      |                         |      | G5      |
| FVH  | (80°-90°)   | 639.6   | 1.4       |                         |      | G4/750  |
| BL   | (0°-30°)    | 1999.1  | 4.2       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3763.8  | 8.0       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2462.2  | 5.2       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 249.3   | 0.5       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 71°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5783.1  | 5783.1  | 5783.1  | 5783.1  | 5783.1  | 5783.1  | 5783.1  | 5783.1  | 5783.1  | 5783.1  | 5783.1  |
| 2.5°  | 6420.1  | 6389.1  | 6391.7  | 6347.6  | 6290.7  | 6228.5  | 6140.4  | 6062.8  | 6000.6  | 5964.3  | 5858.2  |
| 5°    | 7114.2  | 7083.1  | 7044.3  | 6948.5  | 6907.0  | 6754.2  | 6560.0  | 6383.9  | 6249.2  | 6174.1  | 5961.7  |
| 7.5°  | 7676.2  | 7668.4  | 7658.1  | 7603.7  | 7497.5  | 7285.1  | 7119.4  | 6813.8  | 6614.4  | 6471.9  | 6109.4  |
| 10°   | 8023.2  | 8036.2  | 8044.0  | 8054.3  | 8010.3  | 7898.9  | 7671.0  | 7285.1  | 7031.3  | 6850.1  | 6301.0  |
| 12.5° | 8199.3  | 8212.3  | 8256.3  | 8352.1  | 8411.7  | 8398.8  | 8212.3  | 7834.2  | 7484.6  | 7246.3  | 6505.6  |
| 15°   | 8308.1  | 8328.8  | 8406.5  | 8533.4  | 8732.8  | 8859.7  | 8769.1  | 8419.5  | 8036.2  | 7753.9  | 6749.1  |
| 17.5° | 8427.2  | 8450.6  | 8536.0  | 8717.3  | 8978.9  | 9253.4  | 9351.8  | 9051.4  | 8634.4  | 8297.8  | 7021.0  |
| 20°   | 8494.6  | 8525.7  | 8647.4  | 8885.6  | 9191.2  | 9590.1  | 9916.4  | 9758.4  | 9302.6  | 8929.7  | 7334.3  |
| 22.5° | 8603.4  | 8629.3  | 8732.8  | 8986.6  | 9351.8  | 9851.6  | 10481.0 | 10447.3 | 10045.9 | 9564.2  | 7678.8  |
| 25°   | 8898.6  | 8940.0  | 8991.8  | 9144.6  | 9496.8  | 10118.4 | 10949.7 | 11182.8 | 10765.8 | 10227.2 | 7994.8  |
| 27.5° | 9455.4  | 9489.1  | 9486.5  | 9507.2  | 9706.6  | 10348.9 | 11356.3 | 11910.5 | 11480.6 | 10897.9 | 8300.3  |
| 30°   | 10089.9 | 10102.9 | 10113.2 | 10066.6 | 10110.6 | 10584.6 | 11729.3 | 12630.5 | 12200.6 | 11586.8 | 8567.1  |
| 32.5° | 10861.7 | 10887.6 | 10799.5 | 10680.4 | 10644.1 | 10934.2 | 12037.4 | 13350.5 | 13052.7 | 12286.1 | 8831.3  |
| 35°   | 11773.3 | 11840.6 | 11661.9 | 11452.1 | 11304.5 | 11436.6 | 12451.8 | 14086.0 | 13925.4 | 13179.6 | 9180.9  |
| 37.5° | 12814.4 | 12897.3 | 12731.5 | 12319.7 | 12110.0 | 12146.2 | 12993.1 | 14995.0 | 15028.7 | 14197.4 | 9701.4  |
| 40°   | 13666.4 | 13775.2 | 13780.4 | 13197.7 | 12879.1 | 12920.6 | 13679.4 | 15974.0 | 16359.8 | 15456.0 | 10315.2 |
| 42.5° | 14228.4 | 14334.6 | 14446.0 | 14104.1 | 13770.0 | 14005.7 | 14479.6 | 17035.8 | 17856.8 | 16984.0 | 11172.4 |
| 45°   | 14844.8 | 14940.6 | 15002.8 | 14847.4 | 14660.9 | 15272.1 | 15445.6 | 18164.9 | 19452.1 | 18690.7 | 12110.0 |
| 47.5° | 15559.6 | 15665.8 | 15725.3 | 15577.7 | 15507.8 | 16383.2 | 16486.7 | 19219.0 | 21156.2 | 20348.2 | 13145.9 |
| 50°   | 16512.6 | 16592.9 | 16561.8 | 16468.6 | 16453.1 | 17235.2 | 17486.4 | 20205.7 | 22562.4 | 22132.5 | 14220.7 |
| 52.5° | 17698.8 | 17794.6 | 17828.3 | 17696.2 | 17636.6 | 17843.8 | 18291.8 | 21104.4 | 23841.8 | 23665.7 | 15367.9 |
| 55°   | 18416.2 | 18569.0 | 19081.7 | 19288.9 | 19431.4 | 18631.1 | 19159.4 | 22096.3 | 24989.1 | 25281.7 | 16600.7 |
| 57.5° | 17496.8 | 17693.6 | 18840.9 | 19876.8 | 21215.7 | 20599.4 | 20389.6 | 23132.2 | 26136.4 | 26848.6 | 18076.9 |
| 60°   | 15254.0 | 15298.0 | 16776.8 | 18685.5 | 21378.9 | 23129.6 | 22956.1 | 24779.3 | 27379.5 | 28428.4 | 20021.8 |
| 62.5° | 10582.0 | 10675.2 | 12423.3 | 15468.9 | 19364.0 | 24041.2 | 27322.5 | 27622.9 | 29161.3 | 30792.9 | 22873.2 |
| 65°   | 5456.7  | 5335.0  | 6927.7  | 9722.2  | 14598.8 | 21876.1 | 30860.2 | 32851.8 | 33025.3 | 34491.1 | 26887.4 |
| 67.5° | 3359.0  | 3413.4  | 4159.2  | 5676.9  | 8631.8  | 15898.9 | 30489.9 | 39240.8 | 38326.6 | 39031.1 | 30614.2 |
| 70°   | 2522.5  | 2589.8  | 3102.6  | 3884.7  | 5262.5  | 9090.2  | 24520.3 | 40789.5 | 42066.3 | 41885.0 | 31748.5 |
| 71°   | 2193.6  | 2263.5  | 2797.0  | 3535.1  | 4420.8  | 7015.8  | 20658.9 | 39168.3 | 42195.8 | 42164.7 | 31321.2 |
| 72.5° | 1869.8  | 1913.9  | 2330.8  | 2993.8  | 3726.7  | 4918.1  | 15520.7 | 35128.2 | 40395.9 | 41429.2 | 29795.8 |
| 75°   | 1468.4  | 1502.1  | 1688.6  | 2284.2  | 2934.3  | 3019.7  | 8328.8  | 26335.8 | 33178.1 | 35146.3 | 24805.2 |
| 77.5° | 1196.5  | 1219.8  | 1315.6  | 1696.3  | 2263.5  | 2139.2  | 4369.0  | 17142.0 | 20785.8 | 22767.0 | 14611.7 |
| 80°   | 950.5   | 976.4   | 1033.3  | 1149.9  | 1696.3  | 1525.4  | 2084.8  | 8686.2  | 10040.7 | 10020.0 | 5832.3  |
| 82.5° | 738.1   | 745.9   | 813.2   | 844.3   | 1160.2  | 1082.5  | 1129.2  | 3677.5  | 4073.8  | 4208.4  | 2105.5  |
| 85°   | 466.2   | 489.5   | 720.0   | 647.5   | 694.1   | 634.5   | 556.8   | 1460.7  | 1799.9  | 1774.0  | 841.7   |
| 87.5° | 142.4   | 150.2   | 243.4   | 274.5   | 308.2   | 277.1   | 204.6   | 429.9   | 525.7   | 569.8   | 209.8   |
| 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°    | 5783.1  | 5783.1 | 5783.1 | 5783.1 | 5783.1 | 5783.1 | 5783.1 | 5783.1 | 5783.1 | 5783.1 | 5783.1 |
| 2.5°  | 5816.7  | 5788.2 | 5687.2 | 5604.4 | 5526.7 | 5441.2 | 5368.7 | 5348.0 | 5329.8 | 5322.1 | 5319.5 |
| 5°    | 5871.1  | 5785.6 | 5586.2 | 5423.1 | 5293.6 | 5174.4 | 5099.3 | 5065.7 | 5032.0 | 5032.0 | 5042.4 |
| 7.5°  | 5948.8  | 5793.4 | 5485.2 | 5241.8 | 5078.6 | 4967.3 | 4912.9 | 4907.7 | 4915.5 | 4923.2 | 4925.8 |
| 10°   | 6034.3  | 5788.2 | 5337.6 | 5034.6 | 4889.6 | 4837.8 | 4840.4 | 4884.4 | 4925.8 | 4956.9 | 4962.1 |
| 12.5° | 6117.1  | 5757.2 | 5164.1 | 4840.4 | 4747.1 | 4757.5 | 4830.0 | 4928.4 | 5008.7 | 5052.7 | 5055.3 |
| 15°   | 6210.4  | 5707.9 | 4954.3 | 4656.5 | 4625.4 | 4705.7 | 4840.4 | 4990.6 | 5112.3 | 5184.8 | 5192.6 |
| 17.5° | 6288.1  | 5625.1 | 4734.2 | 4477.8 | 4516.6 | 4664.3 | 4850.7 | 5045.0 | 5192.6 | 5283.2 | 5298.8 |
| 20°   | 6376.1  | 5518.9 | 4506.3 | 4306.9 | 4418.2 | 4617.6 | 4830.0 | 5039.8 | 5192.6 | 5280.6 | 5301.3 |
| 22.5° | 6446.0  | 5368.7 | 4288.7 | 4167.0 | 4330.2 | 4560.7 | 4760.1 | 4928.4 | 5052.7 | 5099.3 | 5130.4 |
| 25°   | 6474.5  | 5179.6 | 4084.1 | 4053.1 | 4260.2 | 4467.4 | 4602.1 | 4697.9 | 4736.8 | 4731.6 | 4744.5 |
| 27.5° | 6459.0  | 4962.1 | 3908.0 | 3962.4 | 4172.2 | 4322.4 | 4389.7 | 4382.0 | 4312.0 | 4247.3 | 4278.4 |
| 30°   | 6394.2  | 4703.1 | 3760.4 | 3869.2 | 4058.2 | 4141.1 | 4130.8 | 4029.7 | 3897.7 | 3775.9 | 3783.7 |
| 32.5° | 6277.7  | 4423.4 | 3623.1 | 3763.0 | 3897.7 | 3933.9 | 3864.0 | 3731.9 | 3542.9 | 3384.9 | 3361.6 |
| 35°   | 6179.3  | 4156.6 | 3501.4 | 3641.3 | 3737.1 | 3719.0 | 3651.6 | 3480.7 | 3309.8 | 3169.9 | 3146.6 |
| 37.5° | 6163.8  | 3928.7 | 3384.9 | 3504.0 | 3558.4 | 3532.5 | 3449.6 | 3304.6 | 3242.4 | 3136.3 | 3123.3 |
| 40°   | 6246.6  | 3768.2 | 3265.8 | 3359.0 | 3384.9 | 3364.2 | 3273.5 | 3190.6 | 3247.6 | 3221.7 | 3221.7 |
| 42.5° | 6471.9  | 3682.7 | 3159.6 | 3214.0 | 3234.7 | 3250.2 | 3185.5 | 3115.5 | 3185.5 | 3066.3 | 3027.5 |
| 45°   | 6829.3  | 3685.3 | 3063.7 | 3071.5 | 3133.7 | 3188.1 | 3144.0 | 3040.4 | 3004.2 | 2765.9 | 2719.3 |
| 47.5° | 7355.1  | 3773.4 | 2986.1 | 2936.8 | 3048.2 | 3138.9 | 3076.7 | 2926.5 | 2765.9 | 2607.9 | 2579.5 |
| 50°   | 7968.9  | 3931.3 | 2916.1 | 2797.0 | 2934.3 | 3076.7 | 3030.1 | 2854.0 | 2688.2 | 2592.4 | 2574.3 |
| 52.5° | 8650.0  | 4130.8 | 2830.7 | 2641.6 | 2794.4 | 3048.2 | 3040.4 | 2843.6 | 2615.7 | 2551.0 | 2535.4 |
| 55°   | 9491.7  | 4327.6 | 2724.5 | 2460.3 | 2670.1 | 3024.9 | 3012.0 | 2758.1 | 2600.2 | 2553.6 | 2548.4 |
| 57.5° | 10470.6 | 4612.5 | 2571.7 | 2276.4 | 2527.7 | 2929.1 | 2900.6 | 2706.4 | 2548.4 | 2514.7 | 2512.1 |
| 60°   | 12047.8 | 5055.3 | 2354.1 | 2108.1 | 2382.6 | 2760.7 | 2797.0 | 2618.3 | 2465.5 | 2457.7 | 2455.1 |
| 62.5° | 14122.2 | 5676.9 | 2128.8 | 1934.6 | 2214.3 | 2543.2 | 2646.8 | 2499.2 | 2377.4 | 2416.3 | 2421.5 |
| 65°   | 16986.6 | 6200.0 | 1895.7 | 1787.0 | 2027.8 | 2333.4 | 2504.3 | 2387.8 | 2279.0 | 2354.1 | 2354.1 |
| 67.5° | 18853.8 | 6210.4 | 1683.4 | 1634.2 | 1838.8 | 2157.3 | 2354.1 | 2255.7 | 2152.1 | 2279.0 | 2284.2 |
| 70°   | 18465.4 | 5441.2 | 1507.3 | 1473.6 | 1654.9 | 1968.3 | 2188.4 | 2110.7 | 1991.6 | 2105.5 | 2064.1 |
| 71°   | 17838.6 | 5013.9 | 1437.3 | 1411.4 | 1582.4 | 1877.6 | 2110.7 | 2046.0 | 1926.8 | 2001.9 | 1978.6 |
| 72.5° | 16839.0 | 4353.5 | 1323.4 | 1328.6 | 1473.6 | 1763.7 | 2001.9 | 1934.6 | 1815.5 | 1856.9 | 1849.1 |
| 75°   | 14233.6 | 3801.8 | 1131.7 | 1155.1 | 1266.4 | 1569.4 | 1784.4 | 1732.6 | 1610.9 | 1610.9 | 1603.1 |
| 77.5° | 8898.6  | 2657.1 | 940.1  | 953.1  | 1074.8 | 1344.1 | 1533.2 | 1489.1 | 1372.6 | 1333.8 | 1323.4 |
| 80°   | 3320.1  | 1372.6 | 735.5  | 751.0  | 826.2  | 1059.2 | 1269.0 | 1227.6 | 1108.4 | 1064.4 | 1023.0 |
| 82.5° | 1256.1  | 688.9  | 541.3  | 528.3  | 608.6  | 808.0  | 994.5  | 945.3  | 852.0  | 745.9  | 714.8  |
| 85°   | 473.9   | 341.9  | 331.5  | 321.1  | 357.4  | 479.1  | 616.4  | 606.0  | 507.6  | 432.5  | 424.7  |
| 87.5° | 124.3   | 111.4  | 129.5  | 95.8   | 101.0  | 90.6   | 93.2   | 38.8   | 18.1   | 7.8    | 5.2    |
| 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)