

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: P317758

Luminaire Tested: **GAN-SA4B-740-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317758  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA4B-740-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23569 lumens  
Efficiency: N/A  
Efficacy: 137.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

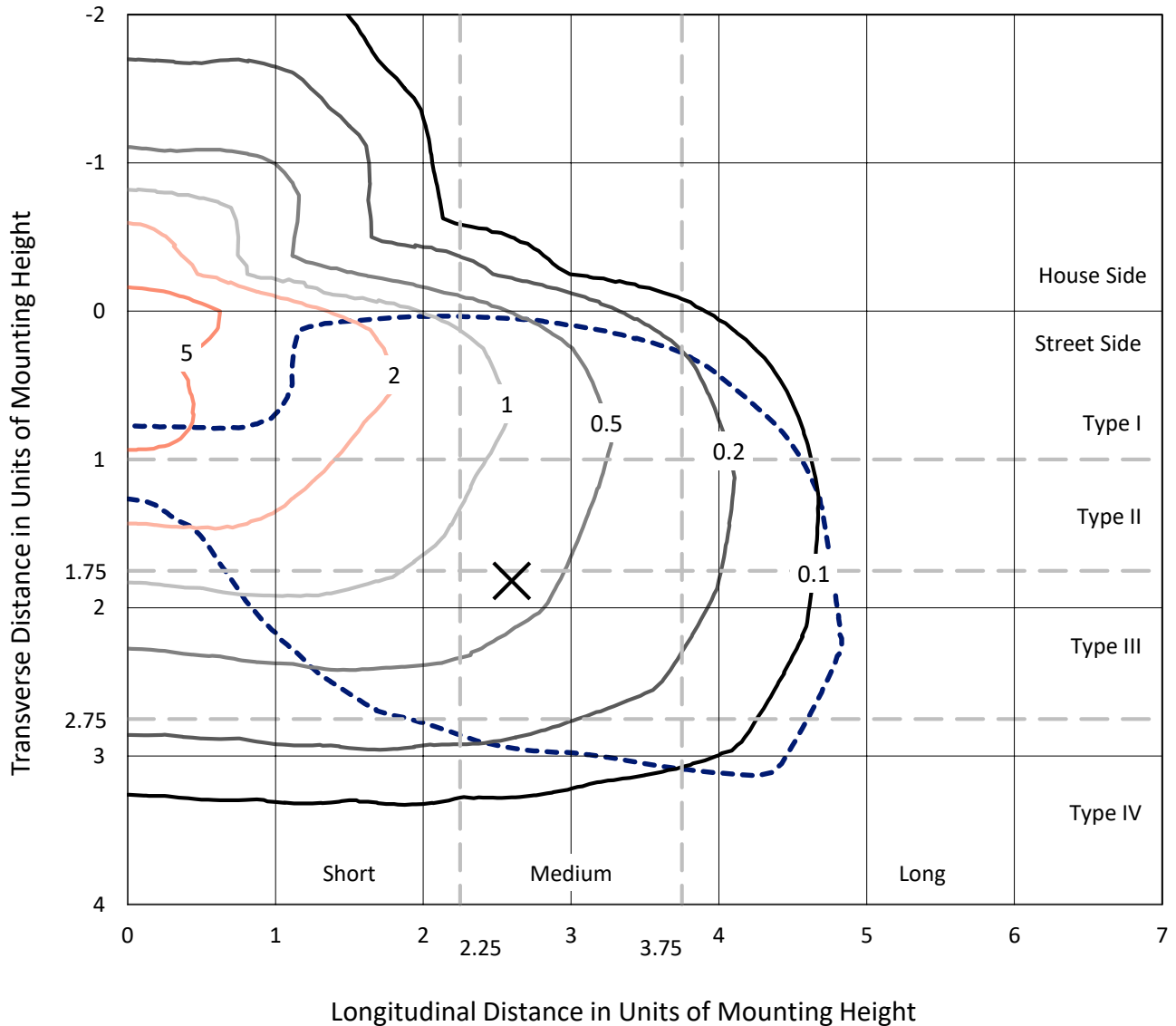
Input Watts (W): 171  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

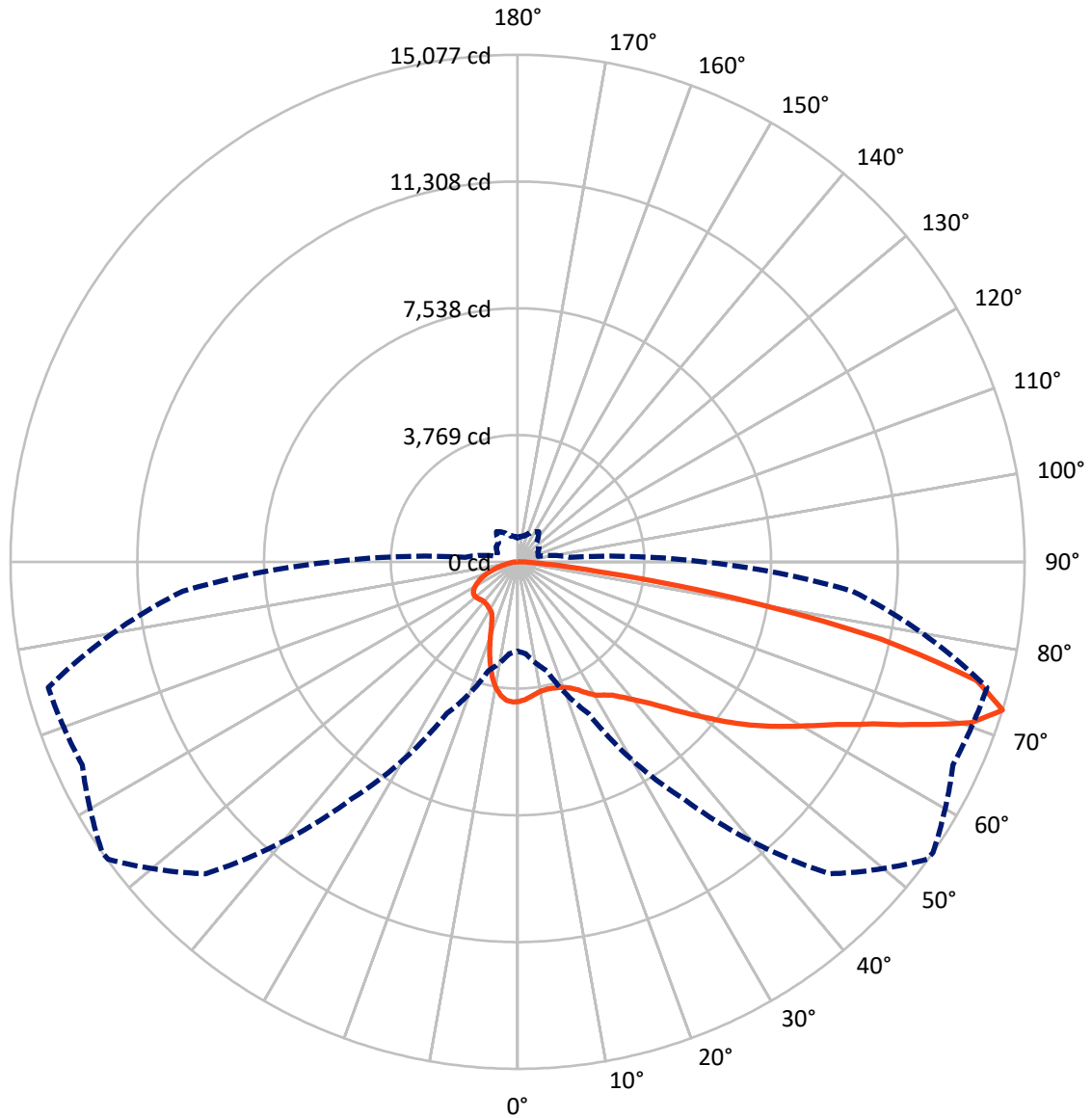
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4380.7   | 0.0    | 4380.7  |
|                    | % Fixture | 18.6     | 0.0    | 18.6    |
| <b>Street Side</b> | Lumens    | 19188.3  | 0.0    | 19188.3 |
|                    | % Fixture | 81.4     | 0.0    | 81.4    |
| <b>Total</b>       | Lumens    | 23569.0  | 0.0    | 23569.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 376.2   | 1.6       |
| 10°-20°   | 1001.5  | 4.2       |
| 20°-30°   | 1651.2  | 7.0       |
| 30°-40°   | 2442.6  | 10.4      |
| 40°-50°   | 3409.3  | 14.5      |
| 50°-60°   | 4439.0  | 18.8      |
| 60°-70°   | 5455.4  | 23.1      |
| 70°-80°   | 4276.4  | 18.1      |
| 80°-90°   | 517.5   | 2.2       |
| 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°    | 23569.0 | 100.0     |
| 0°-180°   | 23569.0 | 100.0     |

**Coefficient of Utilization**

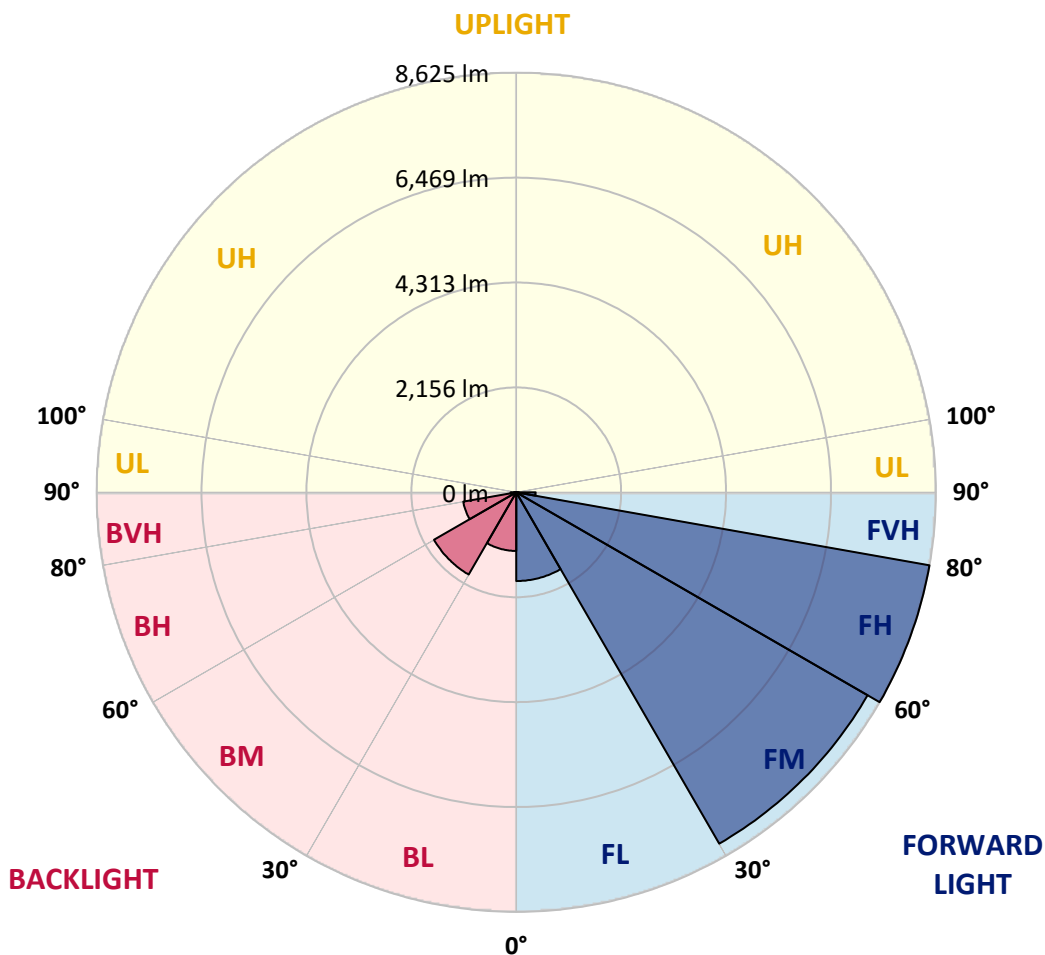


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1823.6 | 7.7       |                         |      |          |
| FM (30°-60°)   | 8339.2 | 35.4      |                         |      |          |
| FH (60°-80°)   | 8625.5 | 36.6      |                         |      | G4/12000 |
| FVH (80°-90°)  | 400.1  | 1.7       |                         |      | G3/500   |
| BL (0°-30°)    | 1205.3 | 5.1       | B3/2500                 |      |          |
| BM (30°-60°)   | 1951.7 | 8.3       | B2/2500                 |      |          |
| BH (60°-80°)   | 1106.3 | 4.7       | B3/2500                 |      | G3/2500  |
| BVH (80°-90°)  | 117.4  | 0.5       |                         |      | G2/225   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 54°     | 55°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4157.1 | 4157.1 | 4157.1 | 4157.1 | 4157.1  | 4157.1  | 4157.1  | 4157.1  | 4157.1  | 4157.1  | 4157.1  |
| 2.5°  | 4021.7 | 4012.2 | 4024.1 | 4040.8 | 4059.1  | 4083.8  | 4098.2  | 4104.5  | 4129.2  | 4138.8  | 4159.5  |
| 5°    | 3835.5 | 3830.7 | 3850.6 | 3879.2 | 3919.8  | 3977.2  | 4023.3  | 4032.1  | 4097.4  | 4143.5  | 4185.7  |
| 7.5°  | 3700.1 | 3700.1 | 3723.2 | 3757.4 | 3802.8  | 3880.0  | 3945.3  | 3957.3  | 4067.9  | 4167.4  | 4245.4  |
| 10°   | 3592.7 | 3596.6 | 3623.7 | 3664.3 | 3717.6  | 3799.6  | 3886.4  | 3899.9  | 4059.9  | 4223.1  | 4347.3  |
| 12.5° | 3521.0 | 3530.6 | 3555.2 | 3591.9 | 3657.9  | 3757.4  | 3867.3  | 3885.6  | 4076.7  | 4302.7  | 4469.9  |
| 15°   | 3566.4 | 3582.3 | 3584.7 | 3599.8 | 3636.4  | 3744.7  | 3878.4  | 3897.5  | 4112.5  | 4383.9  | 4609.2  |
| 17.5° | 3765.4 | 3771.0 | 3746.3 | 3714.5 | 3696.9  | 3766.2  | 3911.9  | 3931.8  | 4155.5  | 4464.3  | 4743.0  |
| 20°   | 4067.9 | 4064.7 | 4011.4 | 3925.4 | 3836.2  | 3847.4  | 3966.8  | 3987.5  | 4213.6  | 4535.2  | 4876.7  |
| 22.5° | 4450.0 | 4438.9 | 4356.9 | 4198.5 | 4046.4  | 3982.7  | 4063.1  | 4080.6  | 4301.2  | 4636.3  | 5020.0  |
| 25°   | 4913.3 | 4888.7 | 4780.4 | 4567.8 | 4344.1  | 4180.2  | 4208.0  | 4224.7  | 4428.5  | 4749.3  | 5151.4  |
| 27.5° | 5402.1 | 5377.4 | 5239.7 | 4982.6 | 4684.9  | 4429.3  | 4407.8  | 4422.2  | 4573.4  | 4832.9  | 5248.5  |
| 30°   | 5913.2 | 5886.9 | 5761.1 | 5473.0 | 5046.3  | 4687.2  | 4594.1  | 4599.7  | 4675.3  | 4878.3  | 5328.1  |
| 32.5° | 6426.7 | 6402.0 | 6261.1 | 5926.7 | 5438.7  | 4964.3  | 4728.6  | 4721.5  | 4736.6  | 4925.3  | 5418.0  |
| 35°   | 6947.3 | 6956.8 | 6792.0 | 6421.9 | 5873.4  | 5272.4  | 4887.9  | 4872.7  | 4839.3  | 5021.6  | 5545.4  |
| 37.5° | 7504.5 | 7498.2 | 7284.8 | 6897.9 | 6327.9  | 5606.7  | 5116.3  | 5113.9  | 4998.5  | 5203.9  | 5745.2  |
| 40°   | 7877.1 | 7881.1 | 7751.3 | 7385.1 | 6787.3  | 5976.9  | 5409.3  | 5403.7  | 5252.5  | 5476.9  | 6007.1  |
| 42.5° | 8022.8 | 8049.0 | 8082.5 | 7850.0 | 7268.1  | 6406.0  | 5758.8  | 5750.8  | 5606.7  | 5868.6  | 6315.2  |
| 45°   | 8033.1 | 8085.7 | 8292.6 | 8263.2 | 7755.3  | 6897.1  | 6205.3  | 6183.1  | 6079.6  | 6389.2  | 6683.0  |
| 47.5° | 7944.0 | 7998.1 | 8342.0 | 8509.2 | 8190.7  | 7415.4  | 6727.6  | 6710.1  | 6620.9  | 7040.4  | 7081.0  |
| 50°   | 7748.9 | 7800.7 | 8240.1 | 8629.4 | 8549.0  | 7913.7  | 7329.4  | 7283.2  | 7235.5  | 7792.7  | 7536.4  |
| 52.5° | 7383.5 | 7483.0 | 8104.0 | 8658.0 | 8763.1  | 8356.3  | 7962.3  | 7932.0  | 7958.3  | 8586.4  | 7992.5  |
| 55°   | 6518.2 | 6629.7 | 7752.9 | 8634.1 | 8921.5  | 8728.1  | 8595.1  | 8593.5  | 8729.7  | 9419.1  | 8482.1  |
| 57.5° | 6033.4 | 6112.2 | 7038.0 | 8593.5 | 9109.4  | 9097.5  | 9221.6  | 9236.8  | 9501.9  | 10325.8 | 8994.8  |
| 60°   | 5759.5 | 5842.3 | 6675.8 | 8443.1 | 9400.8  | 9575.1  | 9860.9  | 9891.1  | 10286.8 | 11329.6 | 9611.7  |
| 62.5° | 5510.4 | 5601.1 | 6451.3 | 8136.6 | 9743.9  | 10258.1 | 10626.7 | 10653.8 | 11117.9 | 12361.3 | 10208.0 |
| 65°   | 5084.5 | 5187.2 | 6122.6 | 7935.2 | 10055.9 | 11148.9 | 11600.3 | 11618.6 | 12072.4 | 13442.4 | 10664.1 |
| 67.5° | 4482.7 | 4576.6 | 5502.4 | 7490.2 | 10286.8 | 12230.8 | 12894.7 | 12905.1 | 13018.9 | 14205.8 | 10897.4 |
| 70°   | 3779.7 | 3815.6 | 4618.8 | 6571.5 | 10013.7 | 13242.6 | 14313.3 | 14315.7 | 13881.8 | 14694.6 | 10859.2 |
| 72.5° | 2655.7 | 2740.1 | 3353.0 | 4974.6 | 8605.5  | 13119.2 | 15049.7 | 15076.7 | 14283.0 | 14447.8 | 9991.4  |
| 75°   | 1628.8 | 1717.9 | 2103.2 | 3014.7 | 5459.4  | 10317.8 | 13904.9 | 14092.8 | 13530.8 | 12882.0 | 8162.1  |
| 77.5° | 1089.0 | 1122.5 | 1372.4 | 1757.7 | 2473.4  | 5936.3  | 10690.4 | 11043.8 | 11240.5 | 9394.4  | 5219.8  |
| 80°   | 607.4  | 671.1  | 909.9  | 1092.2 | 1100.2  | 2358.7  | 6409.9  | 6492.7  | 6253.9  | 3740.7  | 1610.4  |
| 82.5° | 321.6  | 356.6  | 607.4  | 641.6  | 600.2   | 789.7   | 2389.0  | 2391.4  | 1998.1  | 1003.0  | 478.4   |
| 85°   | 249.2  | 278.6  | 416.3  | 391.7  | 306.5   | 350.3   | 788.1   | 831.1   | 679.8   | 410.8   | 156.0   |
| 87.5° | 124.2  | 154.4  | 282.6  | 248.4  | 120.2   | 100.3   | 281.8   | 300.9   | 268.3   | 160.8   | 56.5    |
| 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°    | 4157.1 | 4157.1 | 4157.1 | 4157.1 | 4157.1 | 4157.1 | 4157.1 | 4157.1 | 4157.1 | 4157.1 | 4157.1 |
| 2.5°  | 4167.4 | 4174.6 | 4183.3 | 4173.8 | 4170.6 | 4157.9 | 4136.4 | 4131.6 | 4120.4 | 4121.2 | 4127.6 |
| 5°    | 4204.0 | 4216.0 | 4211.2 | 4174.6 | 4130.8 | 4069.5 | 4005.8 | 3951.7 | 3915.9 | 3913.5 | 3911.1 |
| 7.5°  | 4274.1 | 4282.0 | 4244.6 | 4140.3 | 4017.8 | 3876.1 | 3742.3 | 3625.3 | 3554.4 | 3536.9 | 3532.9 |
| 10°   | 4383.9 | 4382.4 | 4279.7 | 4069.5 | 3825.1 | 3572.0 | 3357.0 | 3194.6 | 3099.9 | 3072.0 | 3064.9 |
| 12.5° | 4506.5 | 4488.2 | 4291.6 | 3940.5 | 3552.8 | 3201.8 | 2929.5 | 2748.8 | 2650.1 | 2618.3 | 2610.3 |
| 15°   | 4633.1 | 4587.7 | 4262.1 | 3747.9 | 3218.5 | 2803.0 | 2517.2 | 2350.0 | 2296.7 | 2279.1 | 2276.0 |
| 17.5° | 4750.9 | 4663.4 | 4177.8 | 3486.8 | 2837.2 | 2405.7 | 2182.8 | 2115.9 | 2128.7 | 2151.8 | 2152.6 |
| 20°   | 4866.4 | 4714.3 | 4042.4 | 3157.2 | 2435.2 | 2078.5 | 2002.9 | 2052.3 | 2112.8 | 2159.7 | 2166.1 |
| 22.5° | 4980.2 | 4750.1 | 3868.1 | 2776.7 | 2075.3 | 1894.6 | 1948.0 | 2037.9 | 2107.2 | 2158.1 | 2166.9 |
| 25°   | 5075.7 | 4758.9 | 3627.7 | 2370.7 | 1825.4 | 1825.4 | 1921.7 | 2006.9 | 2075.3 | 2125.5 | 2134.3 |
| 27.5° | 5110.8 | 4700.0 | 3288.6 | 1994.9 | 1699.6 | 1793.5 | 1885.1 | 1955.9 | 2014.1 | 2067.4 | 2076.9 |
| 30°   | 5124.3 | 4590.9 | 2896.9 | 1693.2 | 1647.9 | 1759.3 | 1835.7 | 1896.2 | 1951.2 | 2001.3 | 2010.1 |
| 32.5° | 5126.7 | 4459.6 | 2481.3 | 1522.1 | 1612.0 | 1723.5 | 1774.4 | 1827.8 | 1886.7 | 1906.6 | 1909.8 |
| 35°   | 5141.8 | 4304.3 | 2043.5 | 1434.5 | 1578.6 | 1690.1 | 1730.7 | 1768.9 | 1673.3 | 1680.5 | 1686.9 |
| 37.5° | 5185.6 | 4150.7 | 1677.3 | 1385.2 | 1557.1 | 1672.5 | 1721.1 | 1582.6 | 1507.8 | 1490.2 | 1487.9 |
| 40°   | 5267.6 | 3986.7 | 1405.9 | 1345.4 | 1549.1 | 1681.3 | 1659.8 | 1477.5 | 1348.5 | 1252.2 | 1237.9 |
| 42.5° | 5381.4 | 3810.0 | 1232.3 | 1319.1 | 1554.7 | 1723.5 | 1574.6 | 1376.4 | 1162.3 | 1100.2 | 1092.2 |
| 45°   | 5509.6 | 3624.5 | 1138.4 | 1300.8 | 1573.8 | 1756.1 | 1557.1 | 1241.9 | 1075.5 | 1028.5 | 1024.5 |
| 47.5° | 5633.8 | 3397.6 | 1089.8 | 1292.8 | 1600.1 | 1729.9 | 1483.1 | 1200.5 | 1034.1 | 1009.4 | 1011.8 |
| 50°   | 5776.3 | 3193.0 | 1060.4 | 1284.1 | 1623.2 | 1713.1 | 1399.5 | 1179.0 | 1018.2 | 1048.4 | 1080.3 |
| 52.5° | 5896.5 | 2981.3 | 1034.1 | 1266.5 | 1631.9 | 1683.7 | 1378.0 | 1183.0 | 1018.2 | 1076.3 | 1106.5 |
| 55°   | 6039.0 | 2821.3 | 1003.8 | 1229.9 | 1615.2 | 1600.1 | 1362.9 | 1206.8 | 1030.1 | 993.5  | 996.7  |
| 57.5° | 6222.9 | 2768.7 | 970.4  | 1172.6 | 1559.5 | 1478.3 | 1355.7 | 1229.9 | 1022.9 | 999.9  | 1007.8 |
| 60°   | 6477.6 | 2824.4 | 956.9  | 1097.8 | 1472.7 | 1382.8 | 1356.5 | 1218.0 | 972.8  | 933.0  | 933.8  |
| 62.5° | 6720.4 | 2886.5 | 956.1  | 1050.8 | 1366.1 | 1297.6 | 1338.2 | 1179.0 | 947.3  | 924.2  | 933.0  |
| 65°   | 6800.0 | 2823.7 | 917.9  | 998.3  | 1245.8 | 1195.7 | 1304.8 | 1137.6 | 928.2  | 893.2  | 891.6  |
| 67.5° | 6693.3 | 2628.6 | 840.6  | 913.1  | 1108.1 | 1077.1 | 1261.0 | 1088.2 | 898.0  | 869.3  | 864.5  |
| 70°   | 6376.5 | 2193.2 | 745.1  | 800.8  | 951.3  | 943.3  | 1191.7 | 1030.9 | 857.4  | 832.7  | 812.0  |
| 72.5° | 5523.9 | 1562.7 | 628.1  | 666.3  | 774.6  | 800.0  | 1096.2 | 956.1  | 800.0  | 746.7  | 714.9  |
| 75°   | 4536.8 | 1156.7 | 515.9  | 523.8  | 588.3  | 657.6  | 964.8  | 868.5  | 732.4  | 641.6  | 617.0  |
| 77.5° | 2778.3 | 707.7  | 410.8  | 414.0  | 421.9  | 524.6  | 794.5  | 770.6  | 646.4  | 535.0  | 517.4  |
| 80°   | 899.6  | 386.1  | 296.9  | 312.1  | 288.2  | 384.5  | 614.6  | 656.0  | 554.9  | 447.4  | 428.3  |
| 82.5° | 342.3  | 225.3  | 200.6  | 211.0  | 199.8  | 257.9  | 448.2  | 525.4  | 454.6  | 367.8  | 299.3  |
| 85°   | 165.6  | 127.4  | 118.6  | 132.9  | 123.4  | 132.1  | 286.6  | 386.9  | 344.7  | 239.6  | 222.9  |
| 87.5° | 58.9   | 56.5   | 45.4   | 61.3   | 52.5   | 47.0   | 87.6   | 195.0  | 227.7  | 164.8  | 147.3  |
| 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)