

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: P192165

Luminaire Tested: **GAN-AF-07-LED-U-T2-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192165  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-07-LED-U-T2-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33382 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G4

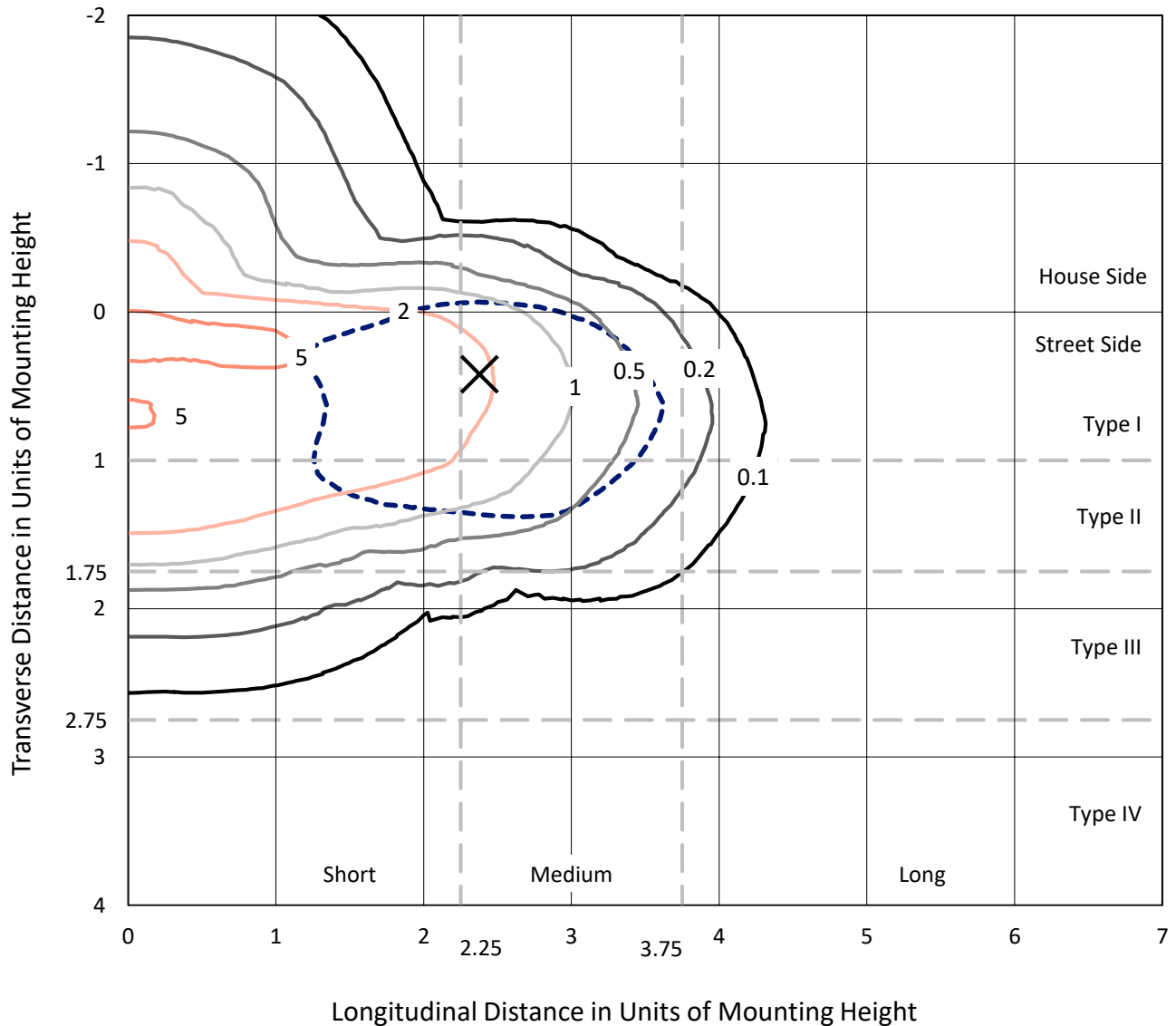
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

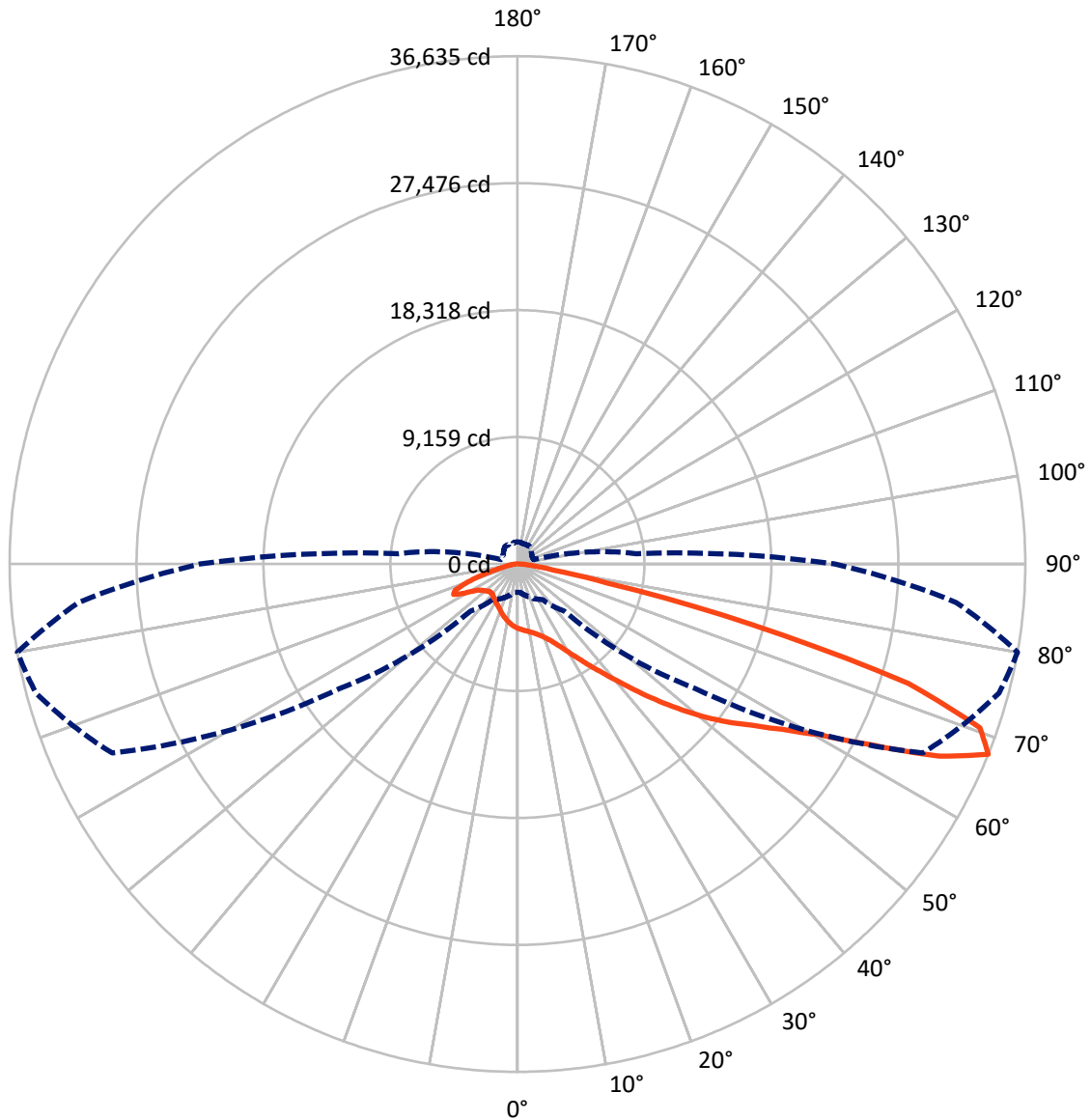
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6147.7   | 0.0    | 6147.7  |
|                    | % Fixture | 18.4     | 0.0    | 18.4    |
| <b>Street Side</b> | Lumens    | 27234.3  | 0.0    | 27234.3 |
|                    | % Fixture | 81.6     | 0.0    | 81.6    |
| <b>Total</b>       | Lumens    | 33382.0  | 0.0    | 33382.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 427.8   | 1.3       |
| 10°-20°   | 1232.4  | 3.7       |
| 20°-30°   | 2039.9  | 6.1       |
| 30°-40°   | 3336.7  | 10.0      |
| 40°-50°   | 5387.5  | 16.1      |
| 50°-60°   | 7777.9  | 23.3      |
| 60°-70°   | 8583.4  | 25.7      |
| 70°-80°   | 3956.4  | 11.9      |
| 80°-90°   | 639.9   | 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°    | 33382.0 | 100.0     |
| 0°-180°   | 33382.0 | 100.0     |



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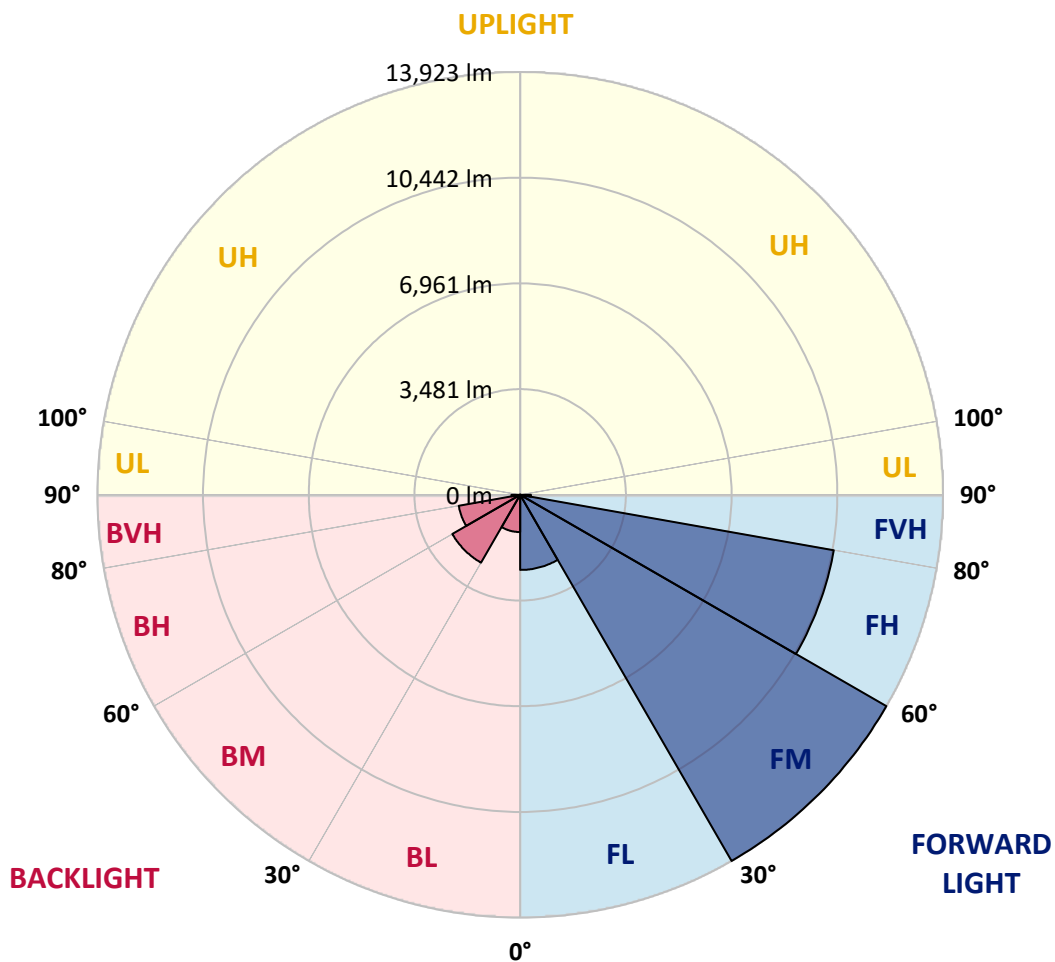
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2473.5  | 7.4       |                         |      |          |
| FM   | (30°-60°)   | 13922.8 | 41.7      |                         |      |          |
| FH   | (60°-80°)   | 10486.2 | 31.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 351.8   | 1.1       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1226.5  | 3.7       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2579.3  | 7.7       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 2053.7  | 6.2       | B3/2500                 |      | G3/2500  |
| BVH  | (80°-90°)   | 288.1   | 0.9       |                         |      | G3/500   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

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

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 80°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4637.7  | 4637.7  | 4637.7  | 4637.7  | 4637.7  | 4637.7  | 4637.7  | 4637.7  | 4637.7  | 4637.7  | 4637.7  |
| 2.5°  | 5073.2  | 5043.7  | 5048.6  | 5040.4  | 5015.7  | 4973.0  | 4927.0  | 4843.2  | 4756.1  | 4710.0  | 4673.9  |
| 5°    | 5497.2  | 5489.0  | 5477.5  | 5451.2  | 5388.8  | 5300.0  | 5189.9  | 5042.0  | 4882.6  | 4798.8  | 4718.3  |
| 7.5°  | 5814.4  | 5809.5  | 5794.7  | 5778.3  | 5717.5  | 5610.6  | 5444.6  | 5234.3  | 5002.6  | 4887.5  | 4762.6  |
| 10°   | 5840.7  | 5848.9  | 5860.4  | 5904.8  | 5913.0  | 5855.5  | 5686.2  | 5431.5  | 5127.5  | 4979.6  | 4820.2  |
| 12.5° | 5617.2  | 5635.3  | 5679.7  | 5793.1  | 5913.0  | 5983.7  | 5896.6  | 5638.6  | 5273.7  | 5094.6  | 4892.5  |
| 15°   | 5321.4  | 5331.3  | 5385.5  | 5541.6  | 5756.9  | 5975.5  | 6057.6  | 5867.0  | 5462.7  | 5242.5  | 5000.9  |
| 17.5° | 5194.9  | 5199.8  | 5237.6  | 5341.1  | 5541.6  | 5853.9  | 6148.0  | 6115.2  | 5694.4  | 5426.6  | 5134.0  |
| 20°   | 5130.8  | 5142.3  | 5196.5  | 5298.4  | 5424.9  | 5697.7  | 6161.2  | 6383.0  | 5970.5  | 5656.7  | 5301.7  |
| 22.5° | 5313.2  | 5308.2  | 5328.0  | 5378.9  | 5485.7  | 5650.1  | 6151.3  | 6659.1  | 6322.2  | 5952.5  | 5520.2  |
| 25°   | 5738.8  | 5756.9  | 5722.4  | 5664.9  | 5699.4  | 5814.4  | 6203.9  | 6958.2  | 6762.7  | 6332.1  | 5806.2  |
| 27.5° | 6345.2  | 6327.2  | 6276.2  | 6141.5  | 6070.8  | 6120.1  | 6378.1  | 7280.3  | 7309.9  | 6831.7  | 6184.2  |
| 30°   | 6950.0  | 6935.2  | 6885.9  | 6721.6  | 6577.0  | 6535.9  | 6716.7  | 7650.1  | 7962.4  | 7431.5  | 6647.6  |
| 32.5° | 7577.8  | 7561.4  | 7515.4  | 7351.0  | 7176.8  | 7081.5  | 7198.2  | 8077.4  | 8731.5  | 8148.1  | 7193.2  |
| 35°   | 8351.9  | 8320.6  | 8223.7  | 7995.2  | 7824.3  | 7750.4  | 7804.6  | 8614.8  | 9618.9  | 8996.1  | 7855.5  |
| 37.5° | 9079.9  | 9127.6  | 9028.9  | 8713.4  | 8491.6  | 8465.3  | 8526.1  | 9270.5  | 10575.4 | 9944.3  | 8616.5  |
| 40°   | 9811.2  | 9819.4  | 9730.7  | 9472.7  | 9244.2  | 9201.5  | 9354.3  | 10065.9 | 11704.4 | 11078.3 | 9541.7  |
| 42.5° | 10567.2 | 10583.6 | 10434.1 | 10195.8 | 10028.1 | 10036.4 | 10210.6 | 10997.8 | 12999.5 | 12414.4 | 10606.6 |
| 45°   | 11462.9 | 11487.5 | 11323.2 | 11010.9 | 10858.1 | 11165.4 | 11093.1 | 12043.0 | 14419.4 | 13932.9 | 11829.3 |
| 47.5° | 12399.6 | 12437.4 | 12312.5 | 12020.0 | 11829.3 | 12251.7 | 11975.6 | 13201.6 | 15947.7 | 15561.5 | 13172.0 |
| 50°   | 12910.7 | 12964.9 | 13086.6 | 13065.2 | 13024.1 | 12953.4 | 12960.0 | 14444.0 | 17523.8 | 17257.6 | 14552.5 |
| 52.5° | 12636.3 | 12634.6 | 13078.3 | 13617.4 | 14192.6 | 14235.3 | 14159.7 | 15753.8 | 18996.3 | 18915.8 | 15852.4 |
| 55°   | 11380.7 | 11466.1 | 12138.3 | 13181.9 | 14753.0 | 15734.1 | 15957.6 | 17254.3 | 20442.5 | 20536.2 | 17172.1 |
| 57.5° | 9290.3  | 9360.9  | 10268.1 | 11722.5 | 13997.0 | 16624.8 | 18514.8 | 19435.1 | 22059.6 | 22496.8 | 18928.9 |
| 60°   | 6300.9  | 6386.3  | 7347.7  | 9094.7  | 11962.5 | 16128.5 | 20948.7 | 23326.7 | 23995.6 | 24989.8 | 21394.0 |
| 62.5° | 3702.6  | 3779.9  | 4563.8  | 5737.2  | 8422.5  | 13822.8 | 22016.9 | 28863.4 | 27070.4 | 28751.6 | 25154.2 |
| 65°   | 2548.9  | 2601.5  | 2982.8  | 3571.2  | 4839.9  | 9310.0  | 20692.3 | 32686.0 | 31801.8 | 33412.4 | 29514.2 |
| 67.5° | 2051.0  | 2044.4  | 2346.8  | 2747.8  | 3115.9  | 4800.4  | 15647.0 | 32253.8 | 35963.0 | 36635.1 | 31777.2 |
| 70°   | 1689.4  | 1682.9  | 1888.3  | 2220.3  | 2489.8  | 2703.4  | 8522.8  | 27218.3 | 35115.0 | 35387.8 | 29693.3 |
| 72.5° | 1413.3  | 1419.9  | 1551.4  | 1797.9  | 2042.8  | 2036.2  | 3745.4  | 19147.5 | 27624.2 | 29510.9 | 23670.2 |
| 75°   | 1193.1  | 1196.4  | 1283.5  | 1457.7  | 1658.2  | 1640.1  | 2031.3  | 10373.3 | 16057.9 | 17370.9 | 13121.1 |
| 77.5° | 1015.6  | 1018.9  | 1074.8  | 1171.8  | 1314.7  | 1308.2  | 1482.4  | 4481.6  | 6698.6  | 6616.4  | 4488.2  |
| 80°   | 905.5   | 905.5   | 931.8   | 949.9   | 1028.8  | 999.2   | 1099.4  | 2152.9  | 2831.6  | 2614.7  | 1791.3  |
| 82.5° | 710.0   | 713.2   | 874.3   | 867.7   | 810.2   | 772.4   | 772.4   | 1268.7  | 1500.4  | 1387.0  | 1048.5  |
| 85°   | 399.4   | 397.7   | 563.7   | 680.4   | 713.2   | 544.0   | 539.0   | 710.0   | 816.8   | 719.8   | 507.8   |
| 87.5° | 170.9   | 174.2   | 261.3   | 302.4   | 404.3   | 338.5   | 333.6   | 366.5   | 415.8   | 359.9   | 235.0   |
| 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°    | 4637.7  | 4637.7 | 4637.7 | 4637.7 | 4637.7 | 4637.7 | 4637.7 | 4637.7 | 4637.7 | 4637.7 | 4637.7 |
| 2.5°  | 4639.4  | 4596.6 | 4503.0 | 4386.3 | 4281.1 | 4212.1 | 4149.6 | 4059.2 | 4064.2 | 4001.7 | 3955.7 |
| 5°    | 4636.1  | 4547.3 | 4330.4 | 4072.4 | 3824.2 | 3645.1 | 3510.3 | 3388.7 | 3359.2 | 3301.6 | 3267.1 |
| 7.5°  | 4639.4  | 4494.8 | 4129.9 | 3717.4 | 3410.1 | 3183.3 | 3068.3 | 3004.2 | 2989.4 | 2969.7 | 2971.3 |
| 10°   | 4650.9  | 4447.1 | 3909.7 | 3385.4 | 3063.3 | 2913.8 | 2885.8 | 2905.6 | 2928.6 | 2935.1 | 2936.8 |
| 12.5° | 4677.2  | 4404.4 | 3668.1 | 3089.6 | 2846.4 | 2800.4 | 2848.0 | 2915.4 | 2959.8 | 2981.2 | 2979.5 |
| 15°   | 4736.3  | 4371.5 | 3436.4 | 2857.9 | 2726.4 | 2751.1 | 2839.8 | 2935.1 | 2999.2 | 3028.8 | 3030.5 |
| 17.5° | 4800.4  | 4323.8 | 3198.1 | 2680.4 | 2637.7 | 2700.1 | 2810.2 | 2922.0 | 3000.9 | 3033.8 | 3040.3 |
| 20°   | 4884.2  | 4264.7 | 2948.3 | 2547.3 | 2553.9 | 2624.5 | 2728.1 | 2839.8 | 2926.9 | 2954.9 | 2968.0 |
| 22.5° | 4994.4  | 4200.6 | 2729.7 | 2438.8 | 2458.6 | 2512.8 | 2593.3 | 2690.3 | 2765.9 | 2779.0 | 2790.5 |
| 25°   | 5142.3  | 4131.6 | 2555.5 | 2340.2 | 2348.4 | 2379.7 | 2433.9 | 2491.4 | 2544.0 | 2529.2 | 2540.7 |
| 27.5° | 5341.1  | 4072.4 | 2425.7 | 2249.8 | 2235.1 | 2241.6 | 2269.6 | 2287.6 | 2315.6 | 2274.5 | 2279.4 |
| 30°   | 5574.5  | 4008.3 | 2325.4 | 2171.0 | 2129.9 | 2118.4 | 2124.9 | 2134.8 | 2156.2 | 2100.3 | 2092.1 |
| 32.5° | 5845.6  | 3931.1 | 2231.8 | 2101.9 | 2044.4 | 2021.4 | 2024.7 | 2051.0 | 2133.2 | 2098.6 | 2080.6 |
| 35°   | 6161.2  | 3844.0 | 2133.2 | 2026.3 | 1986.9 | 1954.0 | 1950.7 | 2032.9 | 2277.8 | 2256.4 | 2240.0 |
| 37.5° | 6531.0  | 3756.9 | 2034.6 | 1940.9 | 1944.2 | 1908.0 | 1896.5 | 1990.2 | 2305.7 | 2221.9 | 2210.4 |
| 40°   | 7001.0  | 3710.8 | 1950.7 | 1850.5 | 1891.6 | 1886.6 | 1863.6 | 1911.3 | 2121.7 | 1968.8 | 1949.1 |
| 42.5° | 7582.7  | 3717.4 | 1888.3 | 1753.5 | 1829.1 | 1881.7 | 1845.6 | 1847.2 | 1922.8 | 1807.8 | 1789.7 |
| 45°   | 8300.9  | 3794.7 | 1843.9 | 1676.3 | 1758.5 | 1876.8 | 1839.0 | 1812.7 | 1819.3 | 1758.5 | 1748.6 |
| 47.5° | 9139.1  | 3954.1 | 1812.7 | 1612.2 | 1691.1 | 1858.7 | 1837.3 | 1802.8 | 1788.0 | 1755.2 | 1747.0 |
| 50°   | 10070.9 | 4185.8 | 1789.7 | 1551.4 | 1630.3 | 1829.1 | 1839.0 | 1793.0 | 1776.5 | 1763.4 | 1758.5 |
| 52.5° | 10986.3 | 4450.4 | 1755.2 | 1498.8 | 1582.6 | 1793.0 | 1843.9 | 1783.1 | 1765.0 | 1755.2 | 1750.2 |
| 55°   | 12006.8 | 4780.7 | 1702.6 | 1454.4 | 1543.2 | 1747.0 | 1843.9 | 1768.3 | 1748.6 | 1750.2 | 1748.6 |
| 57.5° | 13385.7 | 5314.8 | 1640.1 | 1416.6 | 1495.5 | 1691.1 | 1812.7 | 1751.9 | 1727.2 | 1728.9 | 1730.5 |
| 60°   | 15540.2 | 6256.5 | 1564.5 | 1378.8 | 1436.3 | 1625.3 | 1770.0 | 1715.7 | 1691.1 | 1697.7 | 1699.3 |
| 62.5° | 18708.7 | 7638.6 | 1465.9 | 1323.0 | 1373.9 | 1554.7 | 1710.8 | 1669.7 | 1645.1 | 1661.5 | 1661.5 |
| 65°   | 22002.1 | 8858.0 | 1344.3 | 1252.3 | 1308.2 | 1477.4 | 1636.8 | 1612.2 | 1587.5 | 1625.3 | 1623.7 |
| 67.5° | 22887.9 | 8585.2 | 1222.7 | 1175.0 | 1242.4 | 1392.0 | 1548.1 | 1535.0 | 1521.8 | 1587.5 | 1584.3 |
| 70°   | 20332.4 | 6892.5 | 1111.0 | 1096.2 | 1170.1 | 1299.9 | 1452.8 | 1452.8 | 1444.6 | 1493.9 | 1482.4 |
| 72.5° | 15490.9 | 4887.5 | 1004.1 | 1012.3 | 1087.9 | 1199.7 | 1349.2 | 1360.8 | 1347.6 | 1372.3 | 1362.4 |
| 75°   | 8292.7  | 2797.1 | 897.3  | 920.3  | 986.1  | 1097.8 | 1234.2 | 1245.7 | 1237.5 | 1235.9 | 1240.8 |
| 77.5° | 2756.0  | 1367.3 | 785.6  | 821.7  | 879.2  | 992.6  | 1114.2 | 1132.3 | 1112.6 | 1109.3 | 1107.7 |
| 80°   | 1227.6  | 859.5  | 662.3  | 710.0  | 760.9  | 872.7  | 987.7  | 1002.5 | 981.1  | 1010.7 | 972.9  |
| 82.5° | 788.8   | 565.3  | 530.8  | 583.4  | 632.7  | 752.7  | 861.2  | 864.4  | 844.7  | 981.1  | 836.5  |
| 85°   | 382.9   | 350.0  | 399.4  | 447.0  | 489.7  | 591.6  | 713.2  | 714.9  | 665.6  | 606.4  | 585.1  |
| 87.5° | 190.6   | 203.8  | 266.2  | 309.0  | 330.3  | 405.9  | 519.3  | 509.5  | 488.1  | 443.7  | 409.2  |
| 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)