

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: P267107

Luminaire Tested: **GAN-AF-07-LED-U-T3-7027-1200-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P267107  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
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-T3-7027-1200-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40135.7 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 448  
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

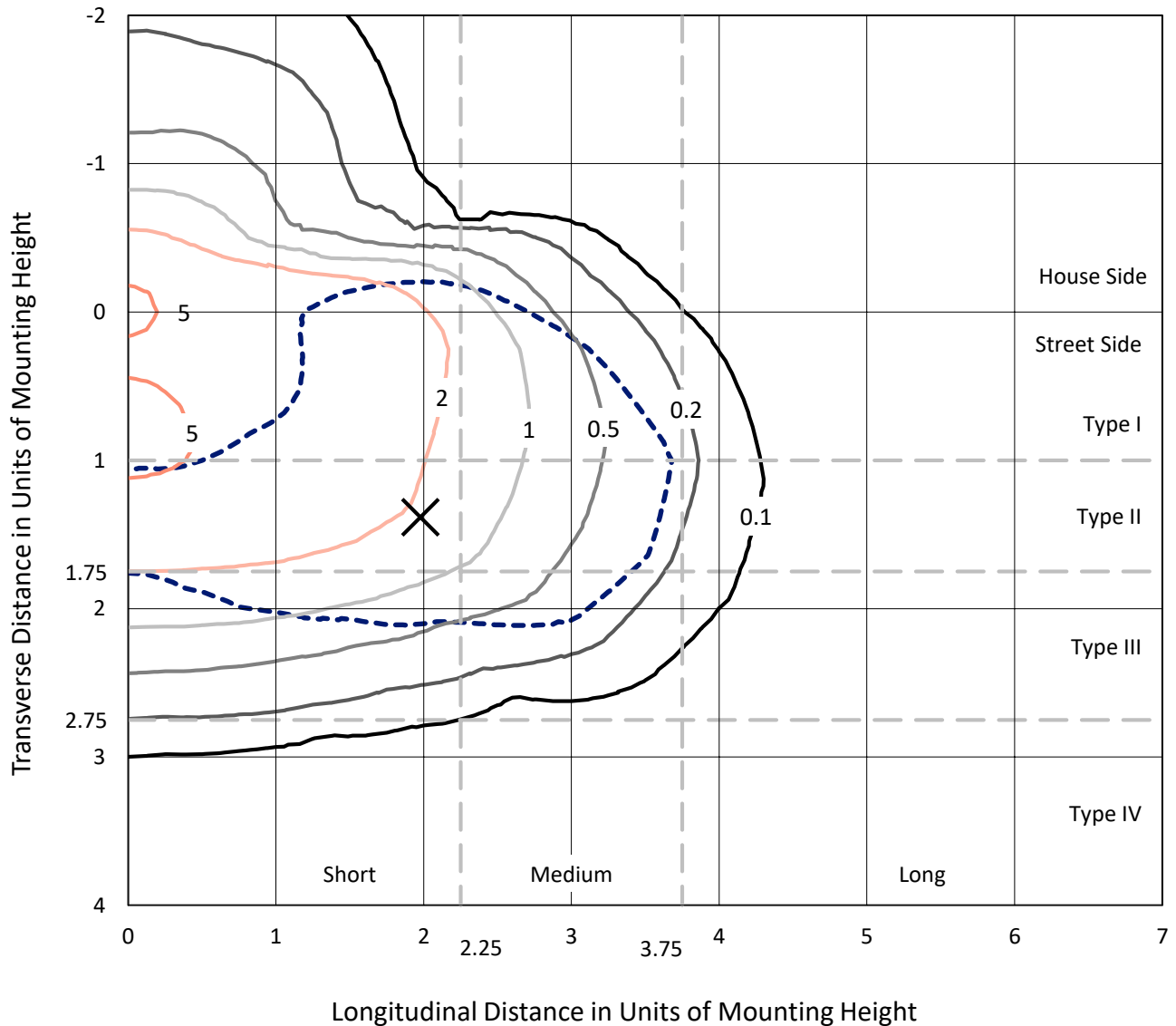


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

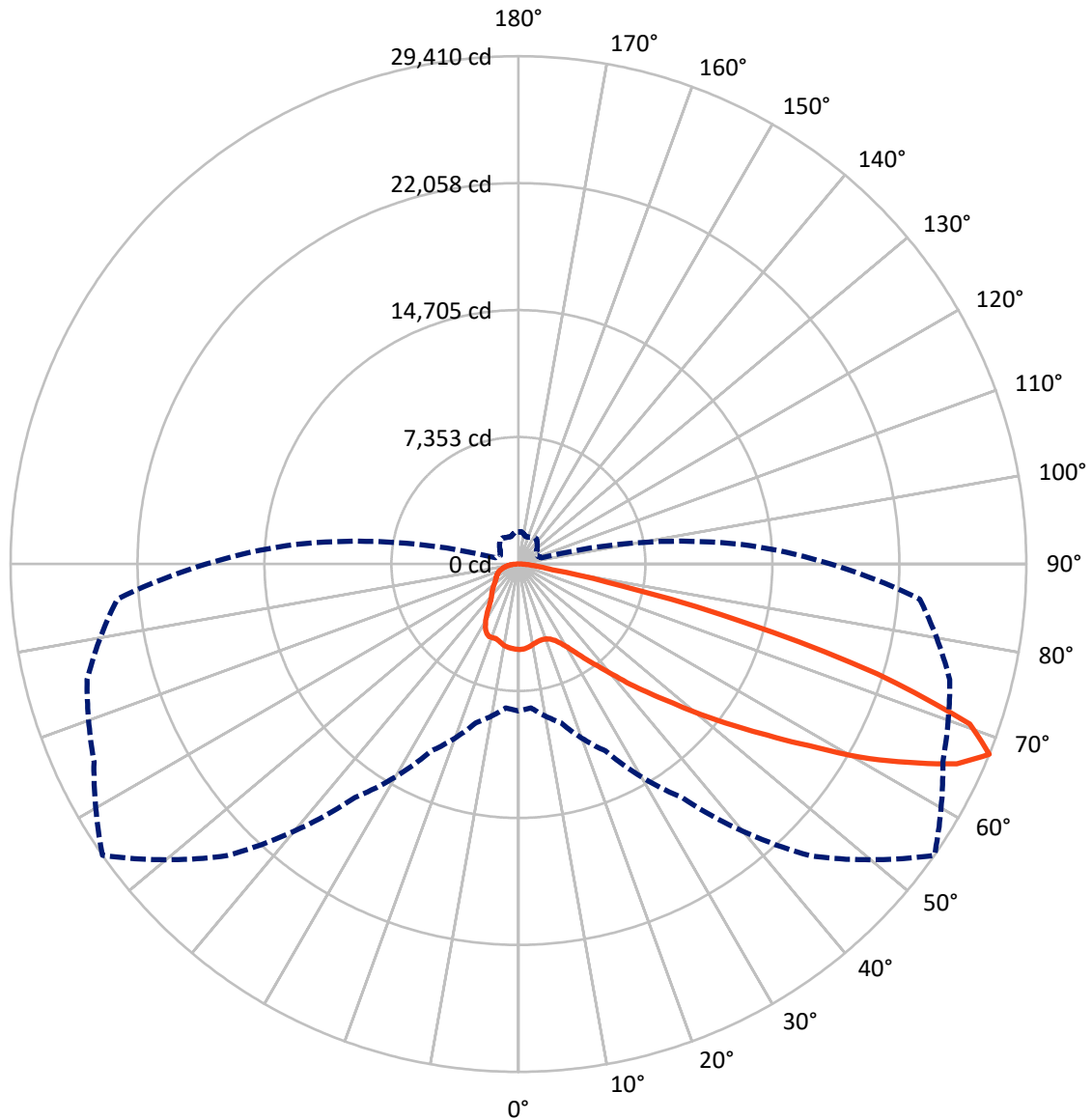


Based on 30 foot mounting height. Maximum calculated value = 5.7 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8670.1   | 0.0    | 8670.1  |
|                    | % Fixture | 21.6     | 0.0    | 21.6    |
| <b>Street Side</b> | Lumens    | 31465.5  | 0.0    | 31465.5 |
|                    | % Fixture | 78.4     | 0.0    | 78.4    |
| <b>Total</b>       | Lumens    | 40135.7  | 0.0    | 40135.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 462.0   | 1.2       |
| 10°-20°   | 1308.3  | 3.3       |
| 20°-30°   | 2191.6  | 5.5       |
| 30°-40°   | 3603.9  | 9.0       |
| 40°-50°   | 6066.5  | 15.1      |
| 50°-60°   | 9548.2  | 23.8      |
| 60°-70°   | 11394.8 | 28.4      |
| 70°-80°   | 4893.2  | 12.2      |
| 80°-90°   | 667.1   | 1.7       |
| 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°    | 40135.7 | 100.0     |
| 0°-180°   | 40135.7 | 100.0     |



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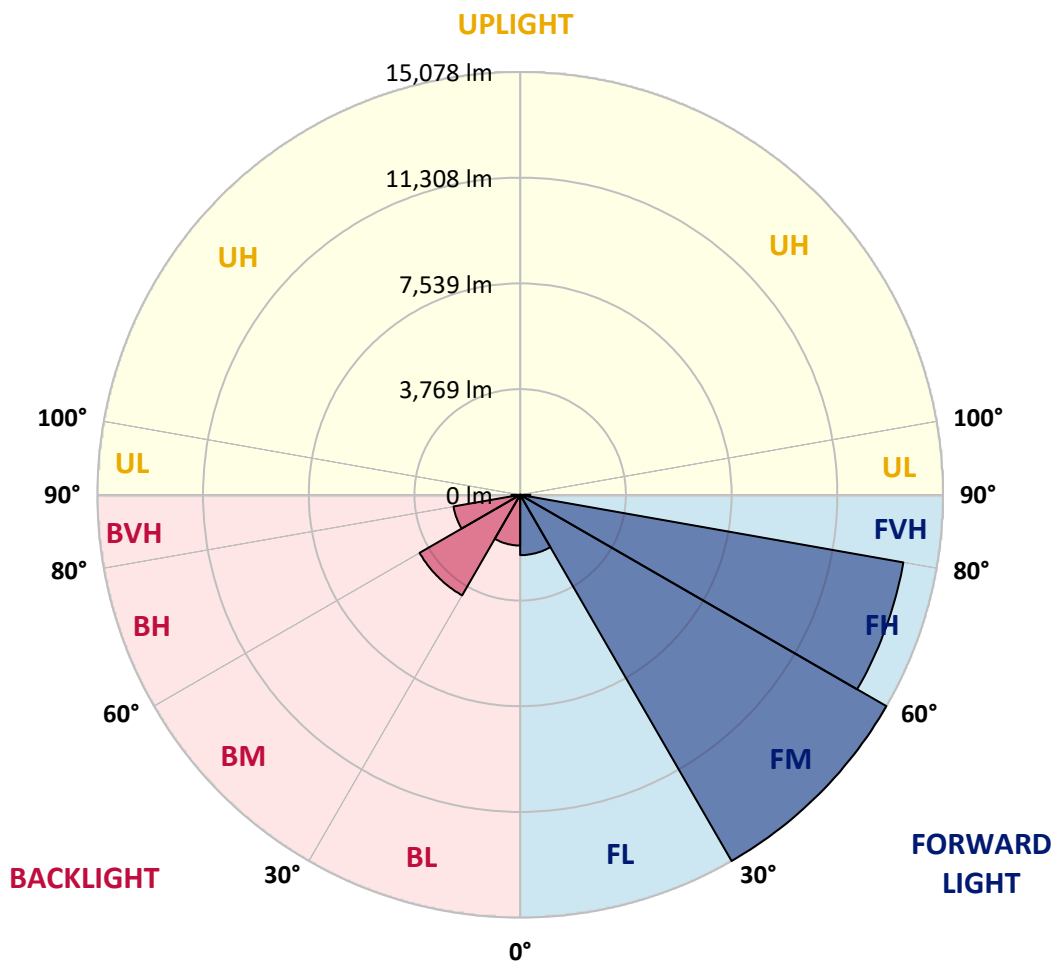
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2151.4  | 5.4       |                         |      |         |
| FM   | (30°-60°)   | 15077.9 | 37.6      |                         |      |         |
| FH   | (60°-80°)   | 13875.1 | 34.6      |                         |      | G5      |
| FVH  | (80°-90°)   | 361.1   | 0.9       |                         |      | G3/500  |
| BL   | (0°-30°)    | 1810.5  | 4.5       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 4140.8  | 10.3      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 2412.9  | 6.0       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 306.0   | 0.8       |                         |      | 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 III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4949.2  | 4949.2  | 4949.2  | 4949.2  | 4949.2  | 4949.2  | 4949.2  | 4949.2  | 4949.2  | 4949.2  | 4949.2  |
| 2.5°  | 4906.5  | 4908.5  | 4912.3  | 4927.8  | 4941.4  | 4937.5  | 4939.5  | 4931.8  | 4929.8  | 4918.2  | 4929.8  |
| 5°    | 4844.5  | 4850.3  | 4852.3  | 4877.4  | 4893.0  | 4896.8  | 4891.0  | 4881.3  | 4869.7  | 4858.0  | 4863.9  |
| 7.5°  | 4702.9  | 4718.4  | 4720.5  | 4755.3  | 4780.5  | 4813.5  | 4815.5  | 4817.3  | 4811.5  | 4803.7  | 4815.5  |
| 10°   | 4613.9  | 4617.6  | 4615.8  | 4641.0  | 4660.3  | 4697.1  | 4718.4  | 4755.3  | 4770.8  | 4774.8  | 4782.4  |
| 12.5° | 4607.9  | 4604.2  | 4598.3  | 4598.3  | 4592.4  | 4607.9  | 4646.8  | 4699.2  | 4736.0  | 4747.5  | 4757.2  |
| 15°   | 4670.0  | 4668.1  | 4648.6  | 4619.7  | 4582.9  | 4571.1  | 4604.2  | 4662.3  | 4710.7  | 4736.0  | 4745.7  |
| 17.5° | 4809.5  | 4797.9  | 4766.9  | 4701.0  | 4621.6  | 4590.6  | 4594.4  | 4642.9  | 4699.2  | 4732.0  | 4741.8  |
| 20°   | 5065.5  | 5065.5  | 4999.5  | 4875.6  | 4734.0  | 4660.3  | 4625.5  | 4654.5  | 4708.7  | 4753.4  | 4766.9  |
| 22.5° | 5507.5  | 5511.3  | 5400.9  | 5197.4  | 4958.9  | 4801.8  | 4714.7  | 4708.7  | 4772.8  | 4823.2  | 4838.7  |
| 25°   | 6133.6  | 6118.1  | 5963.0  | 5672.3  | 5309.7  | 5050.0  | 4898.7  | 4863.9  | 4918.2  | 4974.4  | 4993.8  |
| 27.5° | 6862.5  | 6806.3  | 6622.1  | 6271.2  | 5802.2  | 5422.2  | 5189.6  | 5133.4  | 5185.6  | 5249.6  | 5269.1  |
| 30°   | 7583.8  | 7525.6  | 7306.5  | 6922.7  | 6401.1  | 5920.4  | 5587.0  | 5495.8  | 5569.5  | 5660.6  | 5672.3  |
| 32.5° | 8304.8  | 8304.8  | 8060.6  | 7612.7  | 7044.8  | 6515.5  | 6116.2  | 6007.7  | 6129.8  | 6240.3  | 6265.5  |
| 35°   | 9167.6  | 9171.3  | 8934.9  | 8396.0  | 7785.3  | 7225.1  | 6785.0  | 6705.5  | 6889.7  | 6967.3  | 7027.4  |
| 37.5° | 10227.9 | 10249.2 | 9944.9  | 9293.5  | 8624.6  | 8035.3  | 7511.9  | 7403.4  | 7587.5  | 7798.8  | 7992.7  |
| 40°   | 11373.6 | 11400.7 | 11065.3 | 10262.7 | 9594.0  | 8977.5  | 8411.5  | 8215.7  | 8522.0  | 8925.2  | 9175.3  |
| 42.5° | 12466.9 | 12606.5 | 12282.7 | 11457.0 | 10737.7 | 10100.0 | 9526.2  | 9241.1  | 9625.0  | 10233.8 | 10450.8 |
| 45°   | 14046.8 | 14147.6 | 13583.6 | 12835.3 | 12158.6 | 11445.3 | 10685.3 | 10384.9 | 10922.0 | 11689.6 | 11734.2 |
| 47.5° | 15099.5 | 15024.0 | 14737.1 | 14271.7 | 13843.3 | 13176.5 | 12032.6 | 11703.2 | 12416.6 | 13319.9 | 13069.8 |
| 50°   | 15659.8 | 15683.0 | 15644.3 | 15671.4 | 15686.9 | 15268.2 | 13684.4 | 13232.8 | 14083.7 | 15175.2 | 14599.3 |
| 52.5° | 16183.1 | 16028.1 | 16156.0 | 16791.8 | 17559.6 | 17404.5 | 15481.4 | 15010.4 | 15871.1 | 17234.0 | 16216.2 |
| 55°   | 16171.6 | 15935.0 | 16351.8 | 17474.3 | 19139.5 | 19318.0 | 17499.5 | 16956.6 | 17761.2 | 19441.9 | 17929.8 |
| 57.5° | 15599.6 | 15611.4 | 16252.9 | 17722.4 | 20240.6 | 21116.8 | 19841.3 | 19027.1 | 19765.6 | 21679.1 | 19494.3 |
| 60°   | 14812.6 | 14919.2 | 15843.9 | 17681.7 | 21122.7 | 22592.2 | 22714.3 | 21258.4 | 21729.5 | 23712.6 | 20789.3 |
| 62.5° | 13542.8 | 13655.2 | 14930.9 | 17259.0 | 20988.9 | 24013.1 | 25311.9 | 23790.2 | 23782.4 | 24945.6 | 21169.2 |
| 65°   | 11540.3 | 11507.4 | 12846.9 | 15679.1 | 19866.5 | 25063.8 | 27892.2 | 25978.9 | 25329.4 | 24964.9 | 20405.4 |
| 67.5° | 8510.4  | 8363.0  | 9512.6  | 11941.6 | 16512.7 | 23887.1 | 29410.1 | 27118.7 | 25856.6 | 23323.0 | 18071.4 |
| 70°   | 4416.1  | 4268.7  | 5199.2  | 6973.1  | 10859.9 | 18643.2 | 27729.3 | 26529.4 | 24691.6 | 19550.5 | 14157.4 |
| 72.5° | 1888.1  | 1862.9  | 2241.0  | 3059.1  | 5253.6  | 10753.3 | 21743.0 | 22962.4 | 21186.6 | 14566.5 | 9733.6  |
| 75°   | 1269.8  | 1261.9  | 1403.5  | 1667.2  | 2363.1  | 4363.7  | 13606.8 | 16299.4 | 15500.9 | 9031.7  | 5474.5  |
| 77.5° | 996.4   | 986.8   | 1070.2  | 1198.0  | 1531.5  | 1721.4  | 6038.6  | 8750.7  | 8099.4  | 3931.4  | 2396.0  |
| 80°   | 779.3   | 771.6   | 823.8   | 893.6   | 1101.1  | 1085.6  | 1987.1  | 3481.7  | 2694.6  | 1506.3  | 1165.1  |
| 82.5° | 614.5   | 614.5   | 657.2   | 659.1   | 781.3   | 740.6   | 1037.2  | 1533.3  | 1345.4  | 878.2   | 713.4   |
| 85°   | 562.2   | 562.2   | 606.7   | 492.5   | 509.9   | 467.2   | 643.5   | 909.2   | 853.0   | 360.6   | 310.2   |
| 87.5° | 283.1   | 275.3   | 509.9   | 436.1   | 277.1   | 248.1   | 314.0   | 440.1   | 473.0   | 199.7   | 155.0   |
| 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):**

|       | 95°     | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 4949.2  | 4949.2 | 4949.2 | 4949.2 | 4949.2 | 4949.2 | 4949.2 | 4949.2 | 4949.2 | 4949.2 |
| 2.5°  | 4925.9  | 4924.0 | 4927.8 | 4929.8 | 4945.3 | 4966.5 | 4976.3 | 4989.8 | 4997.6 | 4993.8 |
| 5°    | 4867.7  | 4871.6 | 4887.0 | 4898.7 | 4925.9 | 4960.8 | 4980.3 | 4995.7 | 5009.3 | 5003.5 |
| 7.5°  | 4819.2  | 4829.0 | 4852.3 | 4861.9 | 4877.4 | 4887.0 | 4885.3 | 4891.0 | 4902.7 | 4889.0 |
| 10°   | 4792.2  | 4803.7 | 4821.3 | 4807.6 | 4770.8 | 4718.4 | 4670.0 | 4644.9 | 4652.6 | 4642.9 |
| 12.5° | 4765.0  | 4780.5 | 4766.9 | 4702.9 | 4600.2 | 4532.4 | 4495.6 | 4499.4 | 4516.9 | 4520.7 |
| 15°   | 4749.5  | 4755.3 | 4697.1 | 4577.0 | 4472.3 | 4462.6 | 4482.0 | 4478.1 | 4480.0 | 4480.0 |
| 17.5° | 4749.5  | 4734.0 | 4625.5 | 4505.2 | 4460.7 | 4443.1 | 4383.1 | 4307.6 | 4274.6 | 4262.9 |
| 20°   | 4774.8  | 4734.0 | 4602.1 | 4522.6 | 4425.8 | 4276.6 | 4117.6 | 3978.0 | 3915.9 | 3898.5 |
| 22.5° | 4850.3  | 4780.5 | 4668.1 | 4530.4 | 4255.2 | 4005.2 | 3753.1 | 3586.4 | 3473.9 | 3454.5 |
| 25°   | 5003.5  | 4925.9 | 4797.9 | 4427.7 | 3983.8 | 3627.0 | 3340.2 | 3154.0 | 3041.7 | 3026.1 |
| 27.5° | 5271.0  | 5220.6 | 4867.7 | 4200.8 | 3623.3 | 3241.3 | 2975.7 | 2832.3 | 2749.0 | 2743.1 |
| 30°   | 5674.2  | 5649.0 | 4832.8 | 3865.4 | 3179.2 | 2867.1 | 2739.2 | 2655.8 | 2593.8 | 2591.9 |
| 32.5° | 6317.8  | 6114.3 | 4718.4 | 3456.5 | 2774.1 | 2601.5 | 2549.2 | 2498.8 | 2450.3 | 2450.3 |
| 35°   | 7145.6  | 6490.3 | 4501.3 | 3018.3 | 2527.9 | 2454.2 | 2388.4 | 2308.9 | 2244.9 | 2241.0 |
| 37.5° | 8118.7  | 6722.9 | 4111.7 | 2665.5 | 2411.6 | 2355.4 | 2258.3 | 2140.2 | 2027.7 | 2008.4 |
| 40°   | 9101.5  | 6792.8 | 3563.0 | 2448.4 | 2337.8 | 2256.5 | 2138.2 | 1998.6 | 1890.2 | 1884.3 |
| 42.5° | 10003.0 | 6659.0 | 2981.6 | 2299.1 | 2264.3 | 2155.8 | 2031.6 | 1907.6 | 1822.2 | 1820.3 |
| 45°   | 10759.1 | 6312.0 | 2492.9 | 2157.5 | 2186.7 | 2064.6 | 1954.1 | 1853.3 | 1787.4 | 1773.9 |
| 47.5° | 11470.5 | 5821.6 | 2149.9 | 2008.4 | 2109.2 | 2014.2 | 1921.1 | 1826.2 | 1762.1 | 1752.5 |
| 50°   | 12296.4 | 5292.4 | 1909.4 | 1862.9 | 2041.3 | 1996.8 | 1948.2 | 1849.4 | 1742.8 | 1731.2 |
| 52.5° | 13296.6 | 4834.8 | 1721.4 | 1735.0 | 1988.9 | 2020.0 | 2018.0 | 1915.2 | 1729.1 | 1713.6 |
| 55°   | 14413.2 | 4326.9 | 1579.8 | 1630.3 | 1967.6 | 2062.7 | 2035.5 | 1977.3 | 1740.8 | 1717.6 |
| 57.5° | 15512.4 | 3733.6 | 1481.0 | 1550.8 | 1936.7 | 2058.7 | 1952.1 | 1868.7 | 1768.0 | 1735.0 |
| 60°   | 16336.3 | 2936.9 | 1405.5 | 1481.0 | 1868.7 | 1994.7 | 1861.0 | 1750.5 | 1762.1 | 1737.0 |
| 62.5° | 16390.7 | 2270.0 | 1314.4 | 1420.9 | 1766.1 | 1930.7 | 1800.9 | 1698.2 | 1787.4 | 1764.1 |
| 65°   | 15427.1 | 1715.7 | 1227.2 | 1349.3 | 1655.5 | 1890.2 | 1742.8 | 1669.1 | 1839.6 | 1814.4 |
| 67.5° | 12988.5 | 1380.2 | 1153.5 | 1275.6 | 1545.1 | 1804.9 | 1690.4 | 1642.0 | 1886.3 | 1841.6 |
| 70°   | 9376.9  | 1176.7 | 1081.6 | 1186.4 | 1446.2 | 1707.9 | 1643.9 | 1593.6 | 1760.1 | 1690.4 |
| 72.5° | 5773.0  | 1019.7 | 1000.4 | 1068.2 | 1370.5 | 1607.1 | 1574.1 | 1502.3 | 1585.8 | 1529.5 |
| 75°   | 2882.7  | 884.0  | 909.2  | 951.8  | 1263.9 | 1492.8 | 1457.8 | 1386.1 | 1397.8 | 1386.1 |
| 77.5° | 1380.2  | 756.1  | 802.5  | 835.6  | 1126.4 | 1362.8 | 1326.0 | 1252.2 | 1238.8 | 1240.6 |
| 80°   | 874.3   | 632.0  | 676.6  | 699.8  | 1006.1 | 1211.6 | 1174.8 | 1101.1 | 1256.2 | 1165.1 |
| 82.5° | 546.7   | 513.7  | 525.4  | 568.0  | 876.2  | 1054.6 | 1006.1 | 940.2  | 1132.1 | 895.6  |
| 85°   | 302.4   | 358.7  | 374.1  | 411.0  | 674.6  | 882.0  | 833.5  | 750.3  | 672.7  | 661.1  |
| 87.5° | 180.3   | 213.3  | 219.0  | 246.1  | 453.6  | 637.7  | 564.1  | 535.0  | 443.9  | 442.0  |
| 90°   | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)