

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: P192056

Luminaire Tested: **GAN-AF-08-LED-U-SL4-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192056  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-AF-08-LED-U-SL4-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45330 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G5

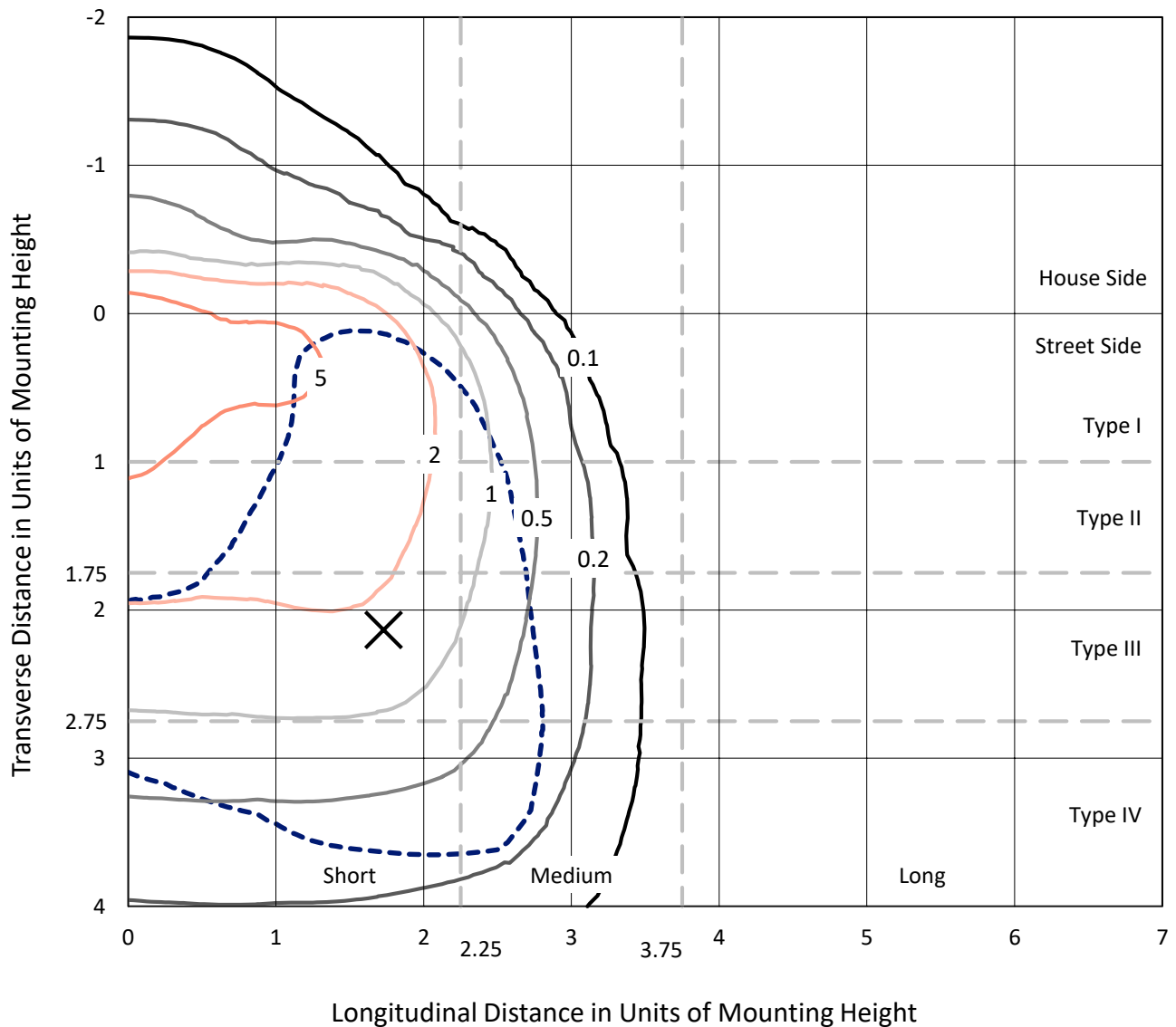
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

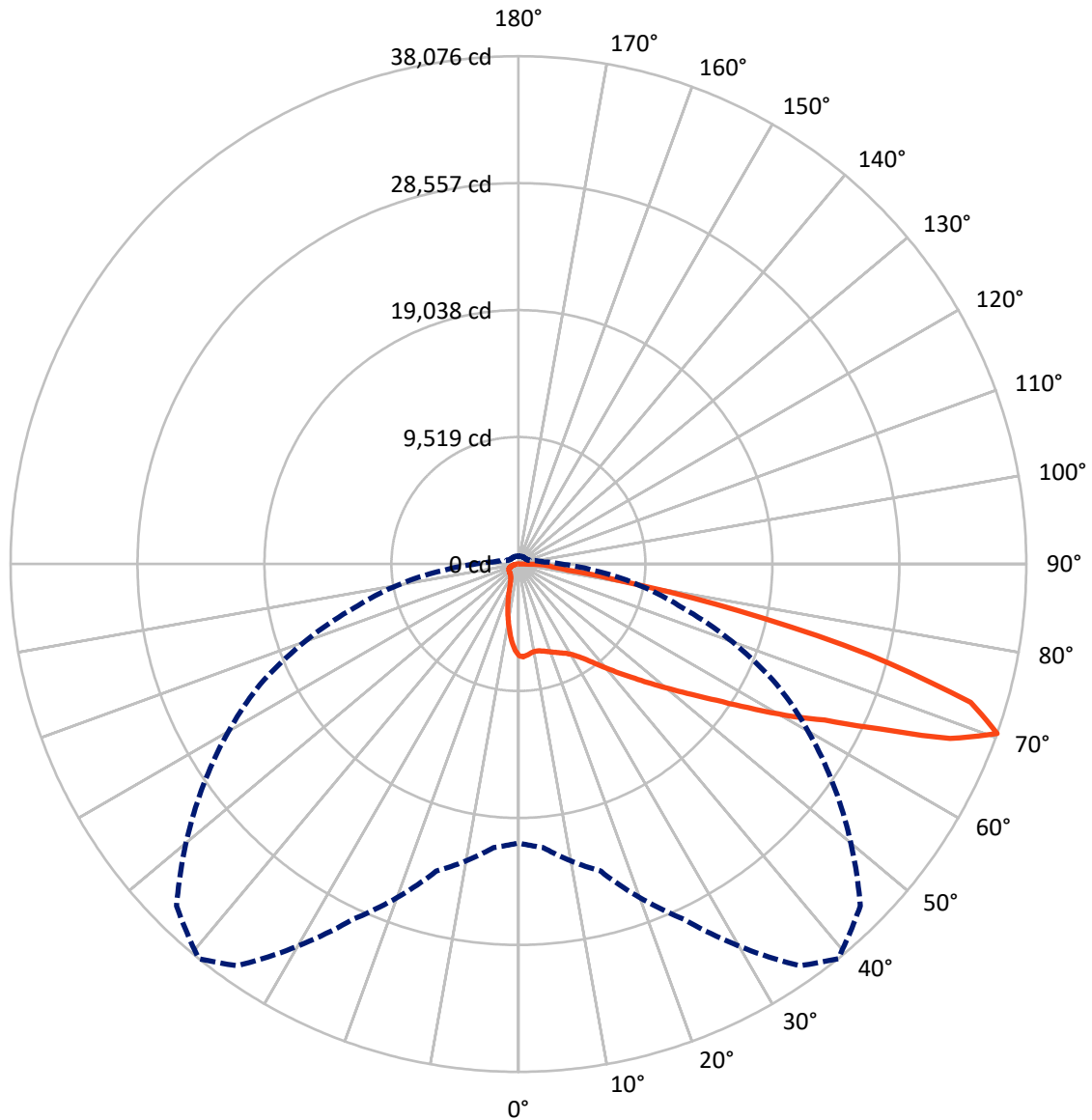
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5155.6   | 0.0    | 5155.6  |
|                    | % Fixture | 11.4     | 0.0    | 11.4    |
| <b>Street Side</b> | Lumens    | 40174.4  | 0.0    | 40174.4 |
|                    | % Fixture | 88.6     | 0.0    | 88.6    |
| <b>Total</b>       | Lumens    | 45330.0  | 0.0    | 45330.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 590.6   | 1.3       |
| 10°-20°   | 1476.2  | 3.3       |
| 20°-30°   | 2298.6  | 5.1       |
| 30°-40°   | 3580.7  | 7.9       |
| 40°-50°   | 6011.5  | 13.3      |
| 50°-60°   | 9549.7  | 21.1      |
| 60°-70°   | 12738.2 | 28.1      |
| 70°-80°   | 7692.3  | 17.0      |
| 80°-90°   | 1392.2  | 3.1       |
| 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°    | 45330.0 | 100.0     |
| 0°-180°   | 45330.0 | 100.0     |



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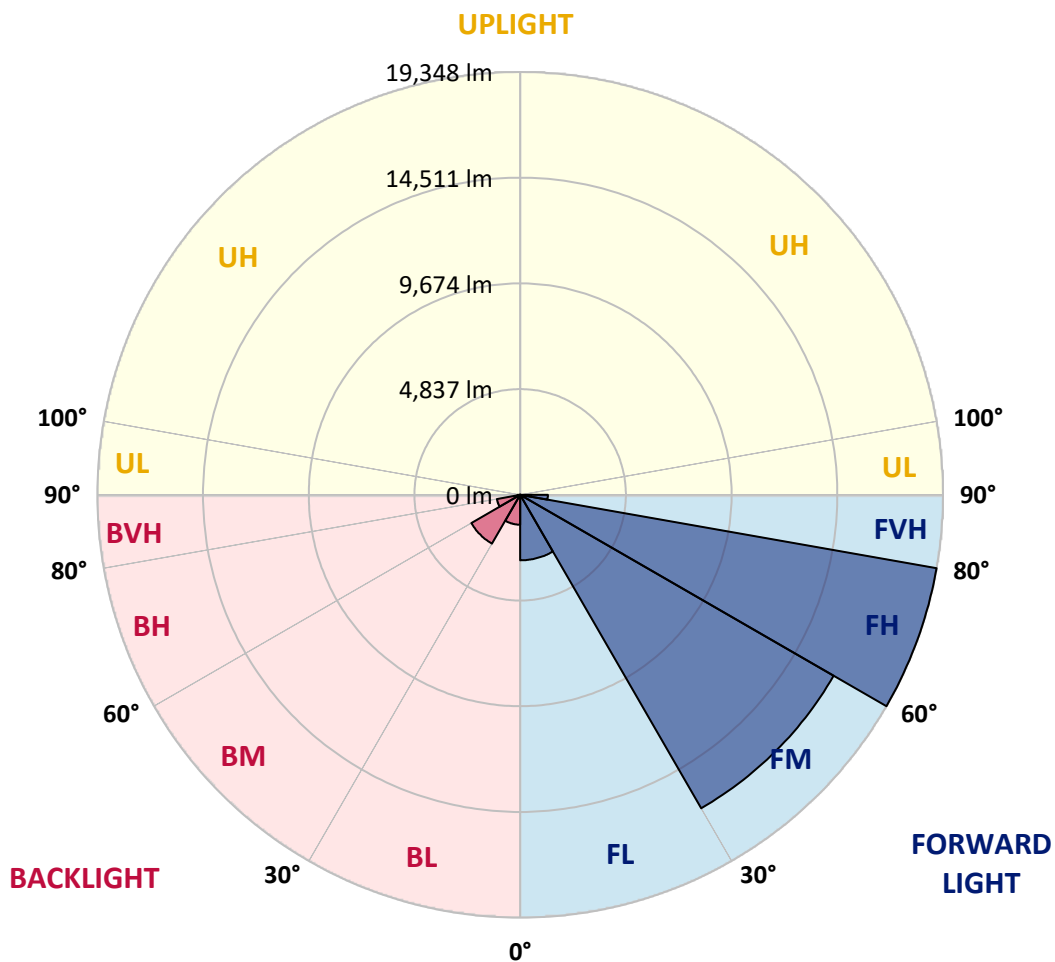
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2997.7  | 6.6       |                         |      |         |
| FM   | (30°-60°)   | 16561.8 | 36.5      |                         |      |         |
| FH   | (60°-80°)   | 19348.2 | 42.7      |                         |      | G5      |
| FVH  | (80°-90°)   | 1266.7  | 2.8       |                         |      | G5      |
| BL   | (0°-30°)    | 1367.7  | 3.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2580.0  | 5.7       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1082.4  | 2.4       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 125.5   | 0.3       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 39°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6881.8  | 6881.8  | 6881.8  | 6881.8  | 6881.8  | 6881.8  | 6881.8  | 6881.8  | 6881.8  | 6881.8  | 6881.8  |
| 2.5°  | 7015.5  | 7013.2  | 6994.7  | 6980.9  | 6969.4  | 6964.8  | 6974.0  | 6939.4  | 6909.5  | 6872.6  | 6833.4  |
| 5°    | 6962.5  | 6960.2  | 6930.2  | 6902.5  | 6874.9  | 6865.7  | 6863.4  | 6801.1  | 6764.3  | 6708.9  | 6635.2  |
| 7.5°  | 6904.8  | 6893.3  | 6854.1  | 6808.0  | 6759.6  | 6736.6  | 6713.6  | 6632.9  | 6591.4  | 6536.1  | 6450.8  |
| 10°   | 6844.9  | 6831.1  | 6794.2  | 6748.1  | 6702.0  | 6667.5  | 6628.3  | 6549.9  | 6506.1  | 6464.6  | 6365.5  |
| 12.5° | 6782.7  | 6771.2  | 6762.0  | 6741.2  | 6708.9  | 6679.0  | 6649.0  | 6582.2  | 6536.1  | 6487.7  | 6372.5  |
| 15°   | 6773.5  | 6768.9  | 6789.6  | 6803.4  | 6785.0  | 6766.6  | 6734.3  | 6676.7  | 6628.3  | 6579.9  | 6430.1  |
| 17.5° | 6847.2  | 6844.9  | 6897.9  | 6934.8  | 6925.6  | 6893.3  | 6849.5  | 6785.0  | 6745.8  | 6704.3  | 6517.7  |
| 20°   | 7008.6  | 7020.1  | 7084.6  | 7133.0  | 7086.9  | 7040.8  | 6969.4  | 6879.5  | 6858.7  | 6840.3  | 6607.5  |
| 22.5° | 7312.8  | 7324.3  | 7370.4  | 7388.8  | 7269.0  | 7202.1  | 7103.0  | 6987.8  | 6974.0  | 6987.8  | 6715.9  |
| 25°   | 7787.5  | 7776.0  | 7769.1  | 7700.0  | 7481.0  | 7377.3  | 7250.5  | 7130.7  | 7137.6  | 7199.8  | 6868.0  |
| 27.5° | 8416.7  | 8354.5  | 8257.7  | 8050.3  | 7702.3  | 7587.0  | 7432.6  | 7322.0  | 7365.8  | 7485.6  | 7096.1  |
| 30°   | 9068.9  | 8999.8  | 8776.2  | 8437.5  | 7992.7  | 7865.9  | 7693.0  | 7568.6  | 7683.8  | 7872.8  | 7400.4  |
| 32.5° | 9672.8  | 9663.6  | 9336.3  | 8900.7  | 8393.7  | 8283.0  | 8110.2  | 7969.6  | 8156.3  | 8444.4  | 7856.7  |
| 35°   | 10331.9 | 10352.7 | 9960.9  | 9437.7  | 8935.3  | 8820.0  | 8695.6  | 8589.6  | 8838.5  | 9234.9  | 8518.1  |
| 37.5° | 11037.1 | 11078.6 | 10615.4 | 10025.4 | 9552.9  | 9504.5  | 9430.8  | 9384.7  | 9769.6  | 10318.1 | 9442.3  |
| 40°   | 11979.8 | 11938.3 | 11295.3 | 10689.1 | 10311.2 | 10308.9 | 10285.8 | 10341.1 | 10981.8 | 11733.2 | 10629.2 |
| 42.5° | 12989.2 | 12867.1 | 12016.6 | 11401.3 | 11143.2 | 11221.5 | 11267.6 | 11493.5 | 12440.7 | 13452.5 | 12076.6 |
| 45°   | 14077.0 | 13802.8 | 12765.7 | 12154.9 | 12067.3 | 12233.3 | 12390.0 | 12880.9 | 14157.7 | 15409.1 | 13662.2 |
| 47.5° | 14945.9 | 14680.9 | 13540.0 | 12945.4 | 13136.7 | 13387.9 | 13689.8 | 14466.5 | 16079.8 | 17430.4 | 15227.1 |
| 50°   | 15630.4 | 15457.5 | 14321.3 | 13867.3 | 14314.4 | 14701.6 | 15194.8 | 16261.9 | 18080.3 | 19398.6 | 16676.7 |
| 52.5° | 16294.1 | 16165.1 | 15109.5 | 14812.2 | 15697.2 | 16231.9 | 16902.6 | 18188.6 | 20131.4 | 21334.5 | 17895.9 |
| 55°   | 16893.4 | 16801.2 | 15957.7 | 15989.9 | 17324.3 | 18020.4 | 18863.9 | 20382.7 | 22367.0 | 23060.7 | 18928.4 |
| 57.5° | 17568.6 | 17451.1 | 16925.6 | 17467.2 | 19414.7 | 20318.1 | 21415.2 | 22848.7 | 24464.3 | 24595.6 | 19714.3 |
| 60°   | 18248.5 | 18147.1 | 17999.6 | 19172.7 | 22069.7 | 23019.2 | 24058.6 | 25238.6 | 26591.5 | 25787.1 | 19668.2 |
| 62.5° | 18838.5 | 18850.0 | 19110.5 | 20963.4 | 24669.4 | 25768.7 | 27036.3 | 28202.5 | 28515.9 | 25994.6 | 18213.9 |
| 65°   | 19838.7 | 20020.8 | 20797.5 | 23498.6 | 28329.2 | 29799.6 | 31355.3 | 31168.6 | 29048.3 | 24056.3 | 15095.7 |
| 67.5° | 21028.0 | 21348.3 | 22922.4 | 26877.3 | 32954.7 | 34906.8 | 35508.3 | 31839.3 | 26916.4 | 19555.3 | 10760.6 |
| 70°   | 20908.1 | 21348.3 | 23839.7 | 29396.3 | 36766.7 | 38075.7 | 36250.4 | 28815.5 | 21373.7 | 12774.9 | 5715.6  |
| 72.5° | 18566.6 | 19195.7 | 21970.6 | 28241.6 | 35565.9 | 35450.7 | 31470.5 | 21482.0 | 12698.8 | 5130.2  | 2233.2  |
| 75°   | 14150.8 | 14786.9 | 17174.5 | 22311.7 | 28110.3 | 27142.3 | 22330.1 | 11866.8 | 4819.1  | 2037.3  | 1408.2  |
| 77.5° | 8140.2  | 8633.4  | 10477.1 | 13682.9 | 17833.7 | 16840.4 | 12429.2 | 5277.7  | 2346.2  | 1419.7  | 1099.3  |
| 80°   | 4544.8  | 4819.1  | 5939.2  | 6941.7  | 8739.4  | 8011.1  | 5561.2  | 3279.6  | 1751.6  | 1030.2  | 848.1   |
| 82.5° | 3593.0  | 3837.3  | 4803.0  | 4378.9  | 3991.7  | 3682.9  | 3194.3  | 2920.0  | 1398.9  | 649.9   | 507.0   |
| 85°   | 3139.0  | 3371.8  | 4065.5  | 3447.8  | 2726.4  | 2500.6  | 2595.1  | 2873.9  | 1087.8  | 391.8   | 433.3   |
| 87.5° | 2908.5  | 3219.6  | 3623.0  | 2657.3  | 2122.6  | 1880.6  | 2394.6  | 3150.5  | 350.3   | 244.3   | 175.2   |
| 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°    | 6881.8  | 6881.8  | 6881.8 | 6881.8 | 6881.8 | 6881.8 | 6881.8 | 6881.8 | 6881.8 | 6881.8 | 6881.8 |
| 2.5°  | 6798.8  | 6762.0  | 6702.0 | 6649.0 | 6566.1 | 6522.3 | 6473.9 | 6439.3 | 6411.6 | 6388.6 | 6425.5 |
| 5°    | 6589.1  | 6520.0  | 6393.2 | 6257.2 | 6095.9 | 5969.1 | 5863.1 | 5764.0 | 5694.9 | 5648.8 | 5681.1 |
| 7.5°  | 6390.9  | 6278.0  | 6079.8 | 5833.2 | 5556.6 | 5321.5 | 5127.9 | 4957.4 | 4839.8 | 4763.8 | 4793.7 |
| 10°   | 6278.0  | 6137.4  | 5830.9 | 5443.7 | 5035.7 | 4669.3 | 4365.1 | 4102.3 | 3920.3 | 3816.6 | 3832.7 |
| 12.5° | 6250.3  | 6068.2  | 5644.2 | 5111.8 | 4554.1 | 4044.7 | 3616.1 | 3251.9 | 2996.1 | 2862.4 | 2867.0 |
| 15°   | 6271.1  | 6038.3  | 5469.0 | 4793.7 | 4088.5 | 3445.5 | 2910.8 | 2468.3 | 2171.0 | 2018.9 | 2016.6 |
| 17.5° | 6305.6  | 6015.2  | 5284.6 | 4450.4 | 3616.1 | 2869.3 | 2272.4 | 1839.1 | 1576.4 | 1454.3 | 1445.0 |
| 20°   | 6342.5  | 5978.4  | 5077.2 | 4079.3 | 3125.2 | 2334.6 | 1779.2 | 1440.4 | 1274.5 | 1207.7 | 1203.0 |
| 22.5° | 6395.5  | 5946.1  | 4862.9 | 3687.5 | 2643.5 | 1901.4 | 1463.5 | 1235.3 | 1147.7 | 1113.2 | 1108.6 |
| 25°   | 6480.8  | 5930.0  | 4634.7 | 3279.6 | 2210.2 | 1590.2 | 1274.5 | 1133.9 | 1083.2 | 1060.2 | 1057.9 |
| 27.5° | 6623.7  | 5953.0  | 4420.4 | 2883.2 | 1857.6 | 1380.5 | 1168.5 | 1083.2 | 1046.3 | 1025.6 | 1023.3 |
| 30°   | 6808.0  | 6024.5  | 4194.5 | 2507.5 | 1583.3 | 1237.6 | 1103.9 | 1048.6 | 1018.7 | 997.9  | 997.9  |
| 32.5° | 7114.6  | 6144.3  | 3957.1 | 2182.5 | 1387.4 | 1138.5 | 1055.5 | 1018.7 | 993.3  | 977.2  | 974.9  |
| 35°   | 7566.3  | 6370.2  | 3735.9 | 1912.9 | 1246.8 | 1067.1 | 1014.1 | 986.4  | 968.0  | 958.7  | 958.7  |
| 37.5° | 8223.1  | 6727.4  | 3540.0 | 1719.3 | 1161.6 | 1018.7 | 974.9  | 954.1  | 942.6  | 942.6  | 942.6  |
| 40°   | 9105.8  | 7220.6  | 3381.0 | 1590.2 | 1113.2 | 984.1  | 944.9  | 928.8  | 921.9  | 924.2  | 924.2  |
| 42.5° | 10195.9 | 7861.3  | 3275.0 | 1500.4 | 1090.1 | 963.4  | 924.2  | 910.4  | 903.4  | 901.1  | 903.4  |
| 45°   | 11438.2 | 8589.6  | 3263.4 | 1433.5 | 1067.1 | 949.5  | 910.4  | 896.5  | 882.7  | 873.5  | 873.5  |
| 47.5° | 12645.8 | 9329.4  | 3357.9 | 1410.5 | 1041.7 | 933.4  | 898.8  | 885.0  | 864.3  | 843.5  | 843.5  |
| 50°   | 13712.9 | 9958.6  | 3484.7 | 1419.7 | 1032.5 | 910.4  | 880.4  | 873.5  | 841.2  | 818.2  | 815.9  |
| 52.5° | 14561.0 | 10442.5 | 3588.4 | 1447.3 | 1041.7 | 894.2  | 857.3  | 859.6  | 825.1  | 799.7  | 797.4  |
| 55°   | 15240.9 | 10760.6 | 3560.7 | 1475.0 | 1062.5 | 885.0  | 836.6  | 841.2  | 813.6  | 788.2  | 788.2  |
| 57.5° | 15538.2 | 10643.0 | 3254.2 | 1452.0 | 1078.6 | 887.3  | 820.5  | 838.9  | 815.9  | 792.8  | 792.8  |
| 60°   | 14899.8 | 9599.0  | 2680.4 | 1350.5 | 1057.9 | 880.4  | 813.6  | 848.1  | 845.8  | 822.8  | 820.5  |
| 62.5° | 12968.5 | 7729.9  | 2078.8 | 1200.7 | 986.4  | 845.8  | 795.1  | 845.8  | 871.2  | 864.3  | 862.0  |
| 65°   | 9995.4  | 5505.9  | 1587.9 | 1039.4 | 889.6  | 788.2  | 746.7  | 792.8  | 827.4  | 836.6  | 834.3  |
| 67.5° | 6487.7  | 3374.1  | 1223.8 | 887.3  | 781.3  | 721.4  | 684.5  | 705.2  | 712.1  | 712.1  | 707.5  |
| 70°   | 3189.7  | 1816.1  | 974.9  | 746.7  | 670.7  | 649.9  | 629.2  | 617.7  | 606.1  | 596.9  | 596.9  |
| 72.5° | 1574.1  | 1186.9  | 802.0  | 631.5  | 578.5  | 569.3  | 564.6  | 550.8  | 541.6  | 530.1  | 525.5  |
| 75°   | 1163.9  | 965.7   | 682.2  | 532.4  | 497.8  | 488.6  | 497.8  | 486.3  | 484.0  | 474.8  | 470.2  |
| 77.5° | 956.4   | 822.8   | 587.7  | 456.3  | 426.4  | 410.2  | 424.1  | 426.4  | 428.7  | 414.8  | 410.2  |
| 80°   | 776.7   | 696.0   | 490.9  | 378.0  | 350.3  | 338.8  | 348.0  | 366.4  | 371.1  | 350.3  | 341.1  |
| 82.5° | 560.0   | 569.3   | 396.4  | 295.0  | 272.0  | 262.7  | 281.2  | 304.2  | 308.8  | 278.9  | 272.0  |
| 85°   | 470.2   | 474.8   | 304.2  | 209.7  | 186.7  | 172.9  | 202.8  | 225.9  | 242.0  | 212.0  | 205.1  |
| 87.5° | 195.9   | 278.9   | 175.2  | 117.5  | 103.7  | 89.9   | 108.3  | 119.8  | 145.2  | 133.7  | 131.4  |
| 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)