

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: P268766

Luminaire Tested: **GAN-AF-08-LED-U-SL4-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268766  
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-SL4-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1200mA 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: 43202.9 lumens  
Efficiency: N/A  
Efficacy: 84.5 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): 511  
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

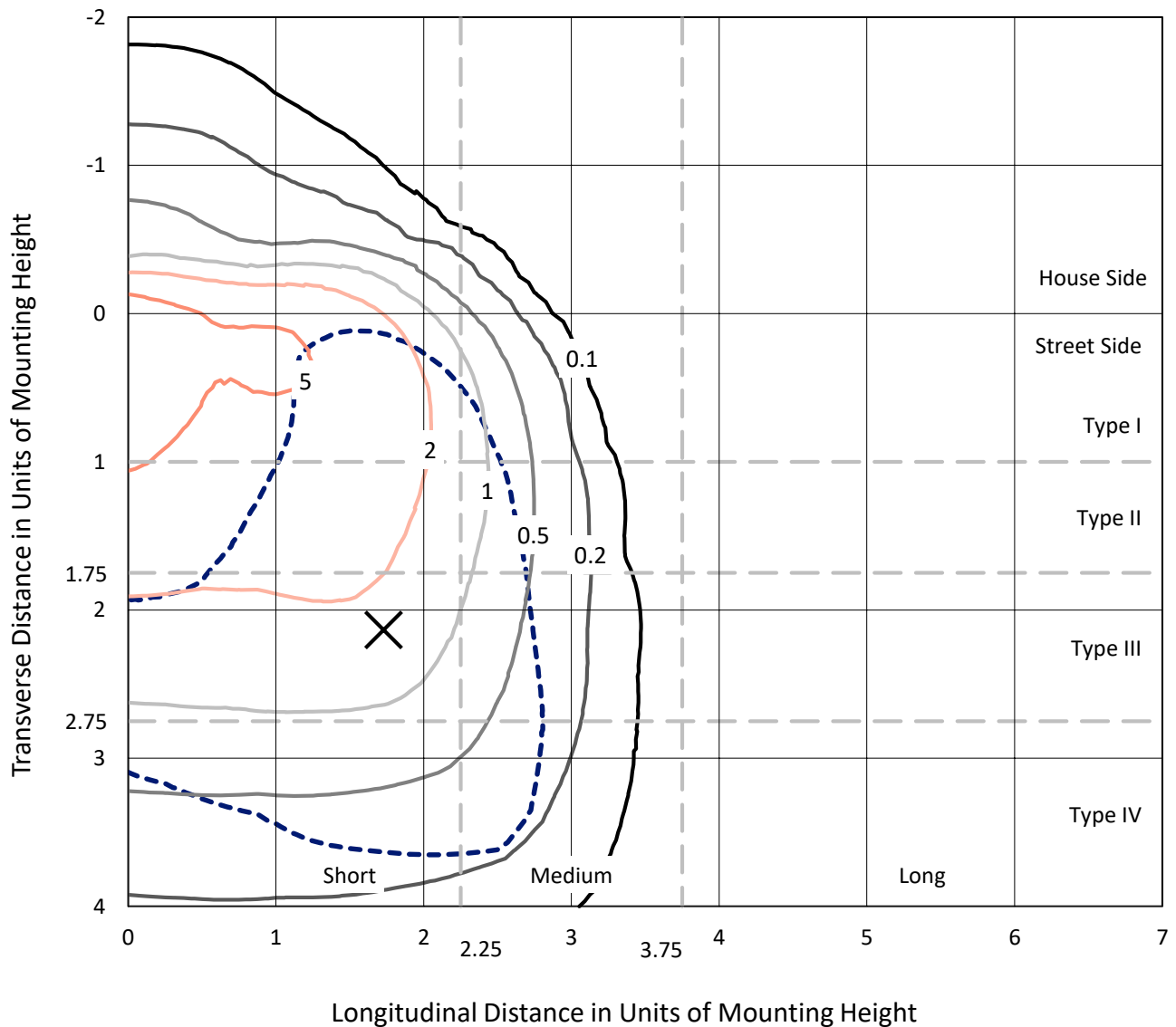


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

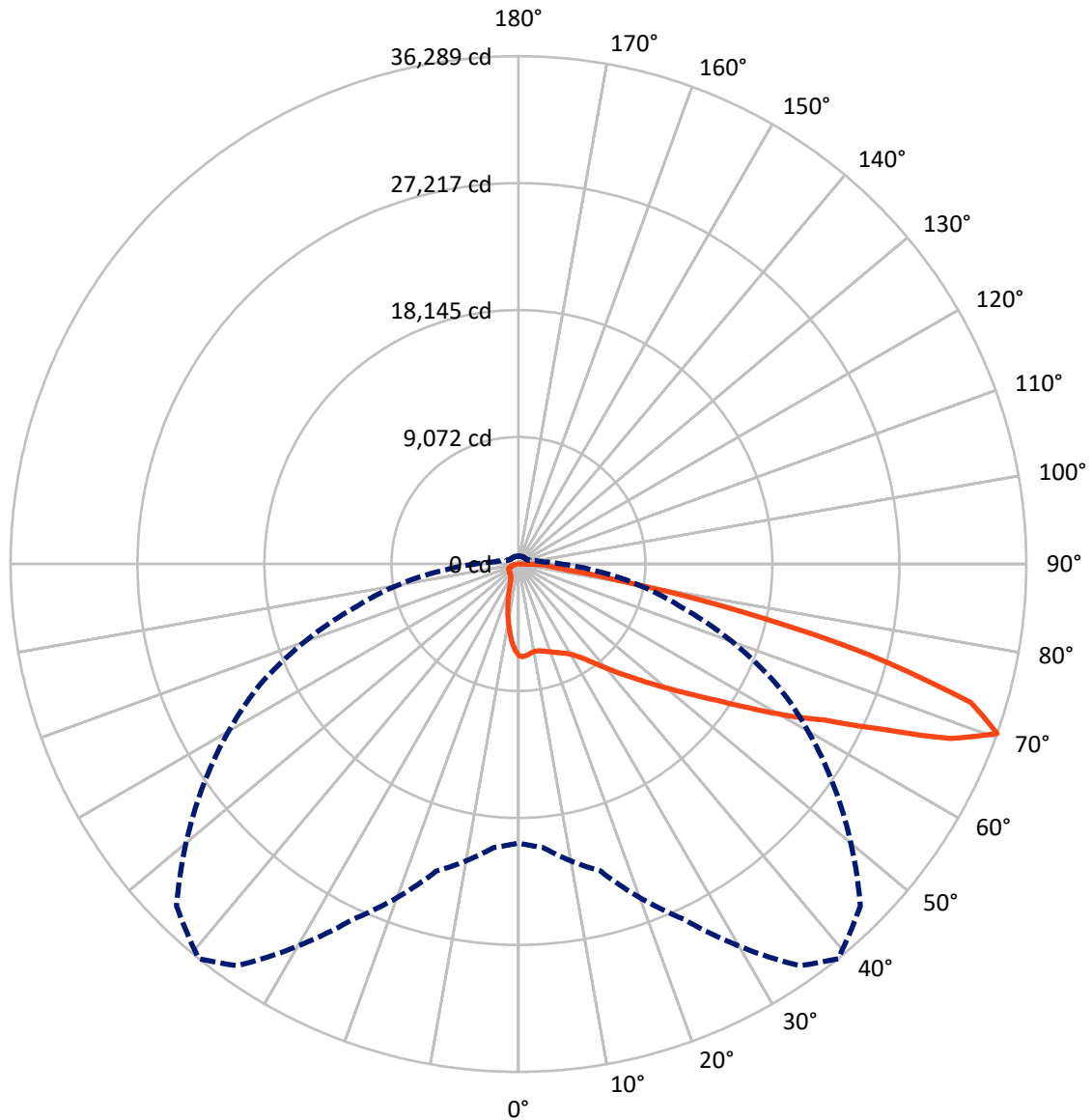


Based on 30 foot mounting height. Maximum calculated value = 7.3 fc  
 Type IV - Short - Semi-Cutoff

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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    | 4913.6   | 0.0    | 4913.6  |
|                    | % Fixture | 11.4     | 0.0    | 11.4    |
| <b>Street Side</b> | Lumens    | 38289.2  | 0.0    | 38289.2 |
|                    | % Fixture | 88.6     | 0.0    | 88.6    |
| <b>Total</b>       | Lumens    | 43202.9  | 0.0    | 43202.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 562.9   | 1.3       |
| 10°-20°   | 1407.0  | 3.3       |
| 20°-30°   | 2190.7  | 5.1       |
| 30°-40°   | 3412.7  | 7.9       |
| 40°-50°   | 5729.4  | 13.3      |
| 50°-60°   | 9101.6  | 21.1      |
| 60°-70°   | 12140.5 | 28.1      |
| 70°-80°   | 7331.3  | 17.0      |
| 80°-90°   | 1326.9  | 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°    | 43202.9 | 100.0     |
| 0°-180°   | 43202.9 | 100.0     |



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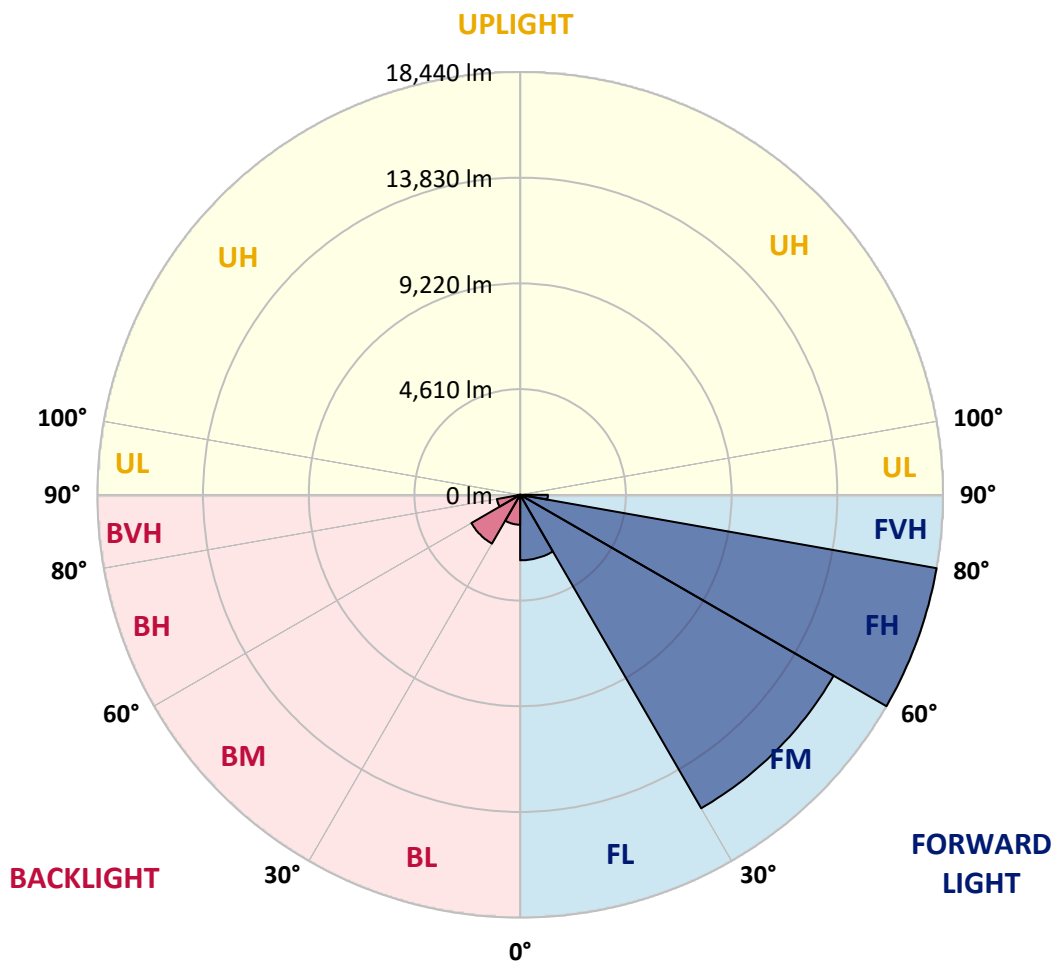
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2857.1  | 6.6       |                         |      |         |
| FM   | (30°-60°)   | 15784.7 | 36.5      |                         |      |         |
| FH   | (60°-80°)   | 18440.2 | 42.7      |                         |      | G5      |
| FVH  | (80°-90°)   | 1207.3  | 2.8       |                         |      | G5      |
| BL   | (0°-30°)    | 1303.5  | 3.0       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2459.0  | 5.7       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1031.6  | 2.4       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 119.6   | 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°    | 6558.9  | 6558.9  | 6558.9  | 6558.9  | 6558.9  | 6558.9  | 6558.9  | 6558.9  | 6558.9  | 6558.9  | 6558.9  |
| 2.5°  | 6686.3  | 6684.1  | 6666.5  | 6653.2  | 6642.3  | 6637.9  | 6646.6  | 6613.9  | 6585.2  | 6550.1  | 6512.7  |
| 5°    | 6635.7  | 6633.5  | 6605.0  | 6578.6  | 6552.2  | 6543.4  | 6541.3  | 6482.0  | 6446.9  | 6394.1  | 6323.9  |
| 7.5°  | 6580.9  | 6569.8  | 6532.6  | 6488.5  | 6442.5  | 6420.5  | 6398.4  | 6321.6  | 6282.0  | 6229.3  | 6148.1  |
| 10°   | 6523.8  | 6510.6  | 6475.4  | 6431.4  | 6387.6  | 6354.6  | 6317.2  | 6242.5  | 6200.8  | 6161.2  | 6066.9  |
| 12.5° | 6464.5  | 6453.5  | 6444.6  | 6424.9  | 6394.1  | 6365.6  | 6337.1  | 6273.4  | 6229.3  | 6183.3  | 6073.4  |
| 15°   | 6455.6  | 6451.3  | 6471.0  | 6484.1  | 6466.5  | 6449.0  | 6418.3  | 6363.4  | 6317.2  | 6271.1  | 6128.3  |
| 17.5° | 6525.8  | 6523.8  | 6574.2  | 6609.4  | 6600.6  | 6569.8  | 6528.2  | 6466.5  | 6429.3  | 6389.7  | 6211.8  |
| 20°   | 6679.6  | 6690.7  | 6752.2  | 6798.4  | 6754.4  | 6710.3  | 6642.3  | 6556.6  | 6536.8  | 6519.3  | 6297.5  |
| 22.5° | 6969.6  | 6980.5  | 7024.6  | 7042.2  | 6927.9  | 6864.2  | 6769.7  | 6659.9  | 6646.6  | 6659.9  | 6400.8  |
| 25°   | 7422.1  | 7411.1  | 7404.5  | 7338.7  | 7129.9  | 7031.2  | 6910.3  | 6796.0  | 6802.7  | 6862.1  | 6545.7  |
| 27.5° | 8021.8  | 7962.4  | 7870.2  | 7672.6  | 7340.8  | 7230.9  | 7083.9  | 6978.5  | 7020.2  | 7134.3  | 6763.1  |
| 30°   | 8643.4  | 8577.5  | 8364.4  | 8041.5  | 7617.5  | 7496.7  | 7332.1  | 7213.4  | 7323.3  | 7503.4  | 7053.1  |
| 32.5° | 9218.9  | 9210.1  | 8898.3  | 8483.1  | 7999.8  | 7894.3  | 7729.6  | 7595.6  | 7773.6  | 8048.2  | 7488.0  |
| 35°   | 9847.1  | 9866.9  | 9493.5  | 8994.8  | 8516.0  | 8406.2  | 8287.6  | 8186.6  | 8423.8  | 8801.6  | 8118.4  |
| 37.5° | 10519.2 | 10558.8 | 10117.3 | 9554.9  | 9104.6  | 9058.5  | 8988.3  | 8944.3  | 9311.1  | 9833.8  | 8999.2  |
| 40°   | 11417.5 | 11378.0 | 10765.3 | 10187.6 | 9827.3  | 9825.1  | 9803.2  | 9855.8  | 10466.5 | 11182.6 | 10130.5 |
| 42.5° | 12379.7 | 12263.3 | 11452.8 | 10866.3 | 10620.2 | 10695.0 | 10738.9 | 10954.1 | 11856.9 | 12821.1 | 11509.9 |
| 45°   | 13416.5 | 13155.0 | 12166.6 | 11584.5 | 11501.1 | 11659.2 | 11808.6 | 12276.4 | 13493.4 | 14686.0 | 13021.1 |
| 47.5° | 14244.6 | 13991.9 | 12904.6 | 12338.0 | 12520.2 | 12759.6 | 13047.4 | 13787.6 | 15325.3 | 16612.4 | 14512.5 |
| 50°   | 14897.0 | 14732.2 | 13649.2 | 13216.6 | 13642.6 | 14011.8 | 14481.8 | 15498.7 | 17231.8 | 18488.2 | 15894.2 |
| 52.5° | 15529.4 | 15406.6 | 14400.5 | 14117.1 | 14960.6 | 15470.3 | 16109.5 | 17335.1 | 19186.8 | 20333.3 | 17056.1 |
| 55°   | 16100.6 | 16012.7 | 15208.8 | 15239.6 | 16511.3 | 17174.8 | 17978.7 | 19426.1 | 21317.4 | 21978.6 | 18040.1 |
| 57.5° | 16744.1 | 16632.2 | 16131.4 | 16647.6 | 18503.6 | 19364.8 | 20410.2 | 21776.5 | 23316.2 | 23441.5 | 18789.2 |
| 60°   | 17392.2 | 17295.5 | 17154.9 | 18273.1 | 21034.1 | 21939.0 | 22929.6 | 24054.3 | 25343.6 | 24577.1 | 18745.2 |
| 62.5° | 17954.6 | 17965.6 | 18213.7 | 19979.7 | 23511.8 | 24559.5 | 25767.6 | 26879.1 | 27177.9 | 24774.7 | 17359.2 |
| 65°   | 18907.9 | 19081.3 | 19821.6 | 22396.0 | 26999.8 | 28401.3 | 29883.8 | 29706.1 | 27685.1 | 22927.5 | 14387.3 |
| 67.5° | 20041.1 | 20346.5 | 21846.8 | 25616.0 | 31408.2 | 33268.8 | 33842.0 | 30345.1 | 25653.3 | 18637.7 | 10255.6 |
| 70°   | 19927.0 | 20346.5 | 22721.0 | 28016.9 | 35041.4 | 36289.0 | 34549.4 | 27463.3 | 20370.7 | 12175.4 | 5447.4  |
| 72.5° | 17695.4 | 18295.1 | 20939.6 | 26916.4 | 33897.0 | 33787.1 | 29993.7 | 20473.9 | 12103.0 | 4889.5  | 2128.4  |
| 75°   | 13486.8 | 14093.0 | 16368.6 | 21264.7 | 26791.2 | 25868.6 | 21282.3 | 11310.0 | 4592.9  | 1941.7  | 1342.1  |
| 77.5° | 7758.2  | 8228.3  | 9985.5  | 13040.9 | 16996.8 | 16050.0 | 11845.9 | 5030.1  | 2236.2  | 1353.0  | 1047.8  |
| 80°   | 4331.5  | 4592.9  | 5660.5  | 6615.9  | 8329.3  | 7635.1  | 5300.3  | 3125.7  | 1669.4  | 981.8   | 808.4   |
| 82.5° | 3424.3  | 3657.2  | 4577.7  | 4173.4  | 3804.4  | 3510.0  | 3044.4  | 2782.9  | 1333.4  | 619.4   | 483.3   |
| 85°   | 2991.6  | 3213.5  | 3874.7  | 3286.0  | 2598.4  | 2383.3  | 2473.4  | 2739.1  | 1036.7  | 373.4   | 413.0   |
| 87.5° | 2772.0  | 3068.6  | 3452.9  | 2532.6  | 2023.1  | 1792.4  | 2282.2  | 3002.7  | 333.9   | 232.8   | 166.9   |
| 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°    | 6558.9  | 6558.9  | 6558.9 | 6558.9 | 6558.9 | 6558.9 | 6558.9 | 6558.9 | 6558.9 | 6558.9 | 6558.9 |
| 2.5°  | 6479.7  | 6444.6  | 6387.6 | 6337.1 | 6258.0 | 6216.2 | 6170.1 | 6137.1 | 6110.8 | 6088.8 | 6123.9 |
| 5°    | 6280.0  | 6214.0  | 6093.3 | 5963.6 | 5809.9 | 5689.1 | 5587.9 | 5493.6 | 5427.6 | 5383.7 | 5414.4 |
| 7.5°  | 6091.0  | 5983.4  | 5794.4 | 5559.4 | 5295.9 | 5071.8 | 4887.3 | 4724.7 | 4612.7 | 4540.3 | 4568.8 |
| 10°   | 5983.4  | 5849.4  | 5557.3 | 5188.3 | 4799.5 | 4450.3 | 4160.2 | 3909.9 | 3736.3 | 3637.4 | 3652.9 |
| 12.5° | 5957.0  | 5783.5  | 5379.3 | 4871.9 | 4340.4 | 3854.9 | 3446.3 | 3099.3 | 2855.5 | 2728.2 | 2732.5 |
| 15°   | 5976.8  | 5754.9  | 5212.3 | 4568.8 | 3896.7 | 3283.8 | 2774.2 | 2352.5 | 2069.2 | 1924.2 | 1922.0 |
| 17.5° | 6009.8  | 5733.0  | 5036.6 | 4241.4 | 3446.3 | 2734.7 | 2165.9 | 1752.9 | 1502.4 | 1386.1 | 1377.2 |
| 20°   | 6044.9  | 5697.8  | 4839.0 | 3887.9 | 2978.5 | 2225.1 | 1695.7 | 1372.8 | 1214.7 | 1151.0 | 1146.5 |
| 22.5° | 6095.4  | 5667.0  | 4634.6 | 3514.4 | 2519.4 | 1812.2 | 1394.8 | 1177.4 | 1093.9 | 1060.9 | 1056.5 |
| 25°   | 6176.7  | 5651.6  | 4417.2 | 3125.7 | 2106.4 | 1515.6 | 1214.7 | 1080.8 | 1032.4 | 1010.5 | 1008.2 |
| 27.5° | 6312.8  | 5673.6  | 4213.0 | 2747.8 | 1770.4 | 1315.7 | 1113.7 | 1032.4 | 997.2  | 977.4  | 975.3  |
| 30°   | 6488.5  | 5741.7  | 3997.6 | 2389.9 | 1509.1 | 1179.6 | 1052.2 | 999.5  | 970.9  | 951.0  | 951.0  |
| 32.5° | 6780.8  | 5856.1  | 3771.4 | 2080.1 | 1322.3 | 1085.2 | 1006.0 | 970.9  | 946.8  | 931.4  | 929.1  |
| 35°   | 7211.2  | 6071.3  | 3560.6 | 1823.1 | 1188.3 | 1017.1 | 966.4  | 940.2  | 922.6  | 913.8  | 913.8  |
| 37.5° | 7837.3  | 6411.7  | 3373.9 | 1638.6 | 1107.0 | 970.9  | 929.1  | 909.4  | 898.3  | 898.3  | 898.3  |
| 40°   | 8678.5  | 6881.7  | 3222.3 | 1515.6 | 1060.9 | 937.9  | 900.6  | 885.2  | 878.6  | 880.8  | 880.8  |
| 42.5° | 9717.4  | 7492.5  | 3121.3 | 1429.9 | 1039.0 | 918.2  | 880.8  | 867.7  | 861.0  | 858.9  | 861.0  |
| 45°   | 10901.4 | 8186.6  | 3110.3 | 1366.2 | 1017.1 | 905.0  | 867.7  | 854.5  | 841.3  | 832.5  | 832.5  |
| 47.5° | 12052.4 | 8891.7  | 3200.3 | 1344.3 | 992.8  | 889.6  | 856.7  | 843.5  | 823.7  | 804.0  | 804.0  |
| 50°   | 13069.4 | 9491.2  | 3321.2 | 1353.0 | 984.1  | 867.7  | 839.0  | 832.5  | 801.7  | 779.8  | 777.6  |
| 52.5° | 13877.7 | 9952.5  | 3419.9 | 1379.4 | 992.8  | 852.2  | 817.1  | 819.3  | 786.3  | 762.2  | 760.0  |
| 55°   | 14525.8 | 10255.6 | 3393.6 | 1405.8 | 1012.6 | 843.5  | 797.3  | 801.7  | 775.3  | 751.3  | 751.3  |
| 57.5° | 14809.1 | 10143.7 | 3101.5 | 1383.7 | 1028.0 | 845.7  | 782.0  | 799.5  | 777.6  | 755.7  | 755.7  |
| 60°   | 14200.6 | 9148.6  | 2554.6 | 1287.2 | 1008.2 | 839.0  | 775.3  | 808.4  | 806.0  | 784.2  | 782.0  |
| 62.5° | 12359.9 | 7367.2  | 1981.3 | 1144.4 | 940.2  | 806.0  | 757.8  | 806.0  | 830.4  | 823.7  | 821.5  |
| 65°   | 9526.3  | 5247.4  | 1513.5 | 990.7  | 847.9  | 751.3  | 711.6  | 755.7  | 788.5  | 797.3  | 795.1  |
| 67.5° | 6183.3  | 3215.8  | 1166.4 | 845.7  | 744.7  | 687.6  | 652.3  | 672.1  | 678.7  | 678.7  | 674.4  |
| 70°   | 3040.0  | 1730.9  | 929.1  | 711.6  | 639.2  | 619.4  | 599.7  | 588.7  | 577.7  | 568.8  | 568.8  |
| 72.5° | 1500.2  | 1131.2  | 764.4  | 601.9  | 551.3  | 542.5  | 538.2  | 525.0  | 516.2  | 505.1  | 500.9  |
| 75°   | 1109.2  | 920.4   | 650.2  | 507.5  | 474.5  | 465.7  | 474.5  | 463.4  | 461.3  | 452.4  | 448.1  |
| 77.5° | 911.6   | 784.2   | 560.2  | 434.9  | 406.4  | 391.0  | 404.1  | 406.4  | 408.5  | 395.3  | 391.0  |
| 80°   | 740.3   | 663.4   | 467.8  | 360.2  | 333.9  | 322.9  | 331.7  | 349.3  | 353.7  | 333.9  | 325.0  |
| 82.5° | 533.8   | 542.5   | 377.7  | 281.2  | 259.3  | 250.4  | 268.0  | 290.0  | 294.4  | 265.8  | 259.3  |
| 85°   | 448.1   | 452.4   | 290.0  | 200.0  | 178.0  | 164.7  | 193.2  | 215.2  | 230.7  | 202.1  | 195.6  |
| 87.5° | 186.7   | 265.8   | 166.9  | 112.0  | 98.9   | 85.7   | 103.2  | 114.3  | 138.3  | 127.4  | 125.3  |
| 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)