

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: P267149

Luminaire Tested: **GAN-AF-08-LED-U-SL2-7027-1200-ADJ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P267149  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
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-SL2-7027-1200-ADJ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44541.6 lumens  
Efficiency: N/A  
Efficacy: 87.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B4 - 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

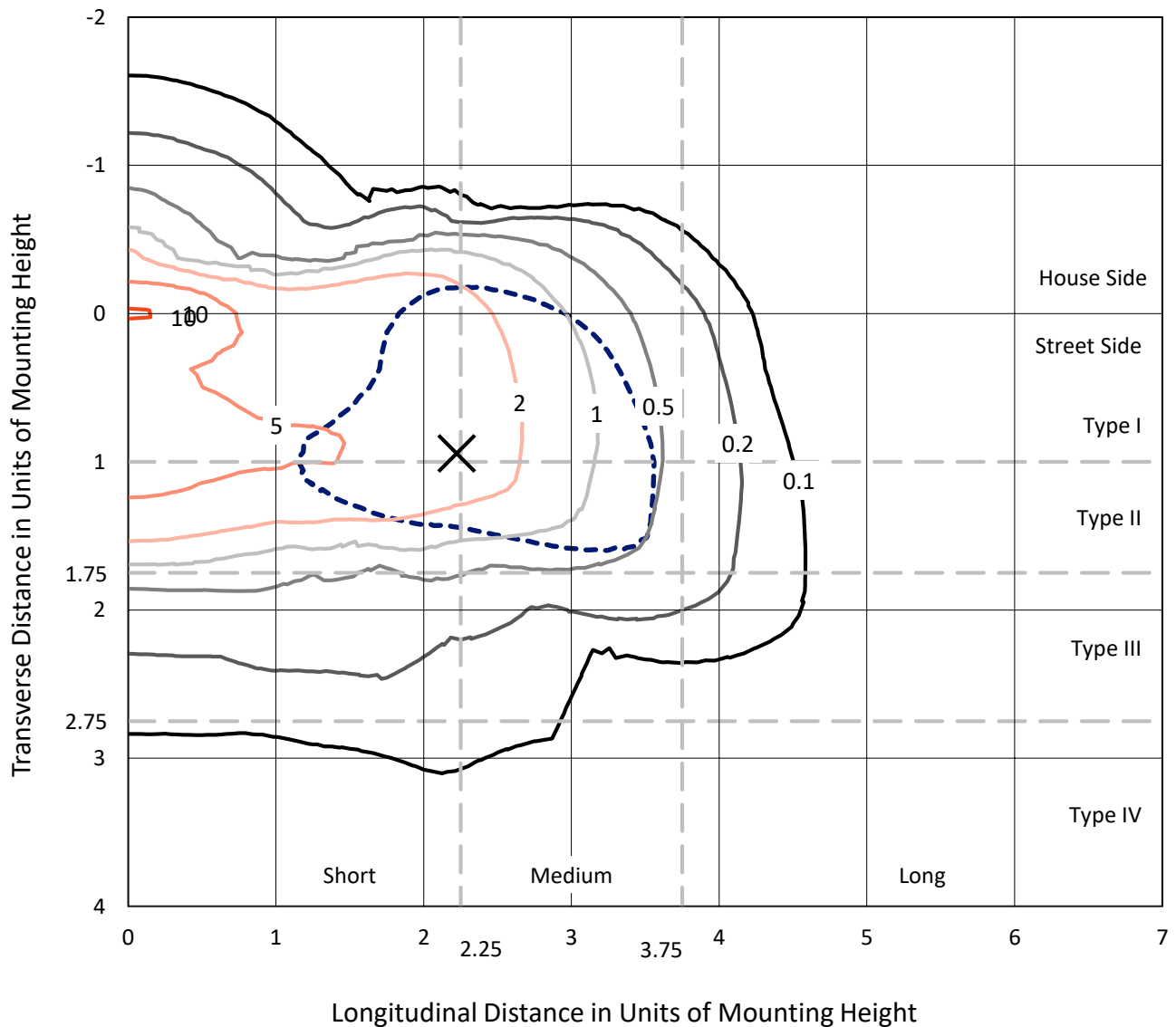


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

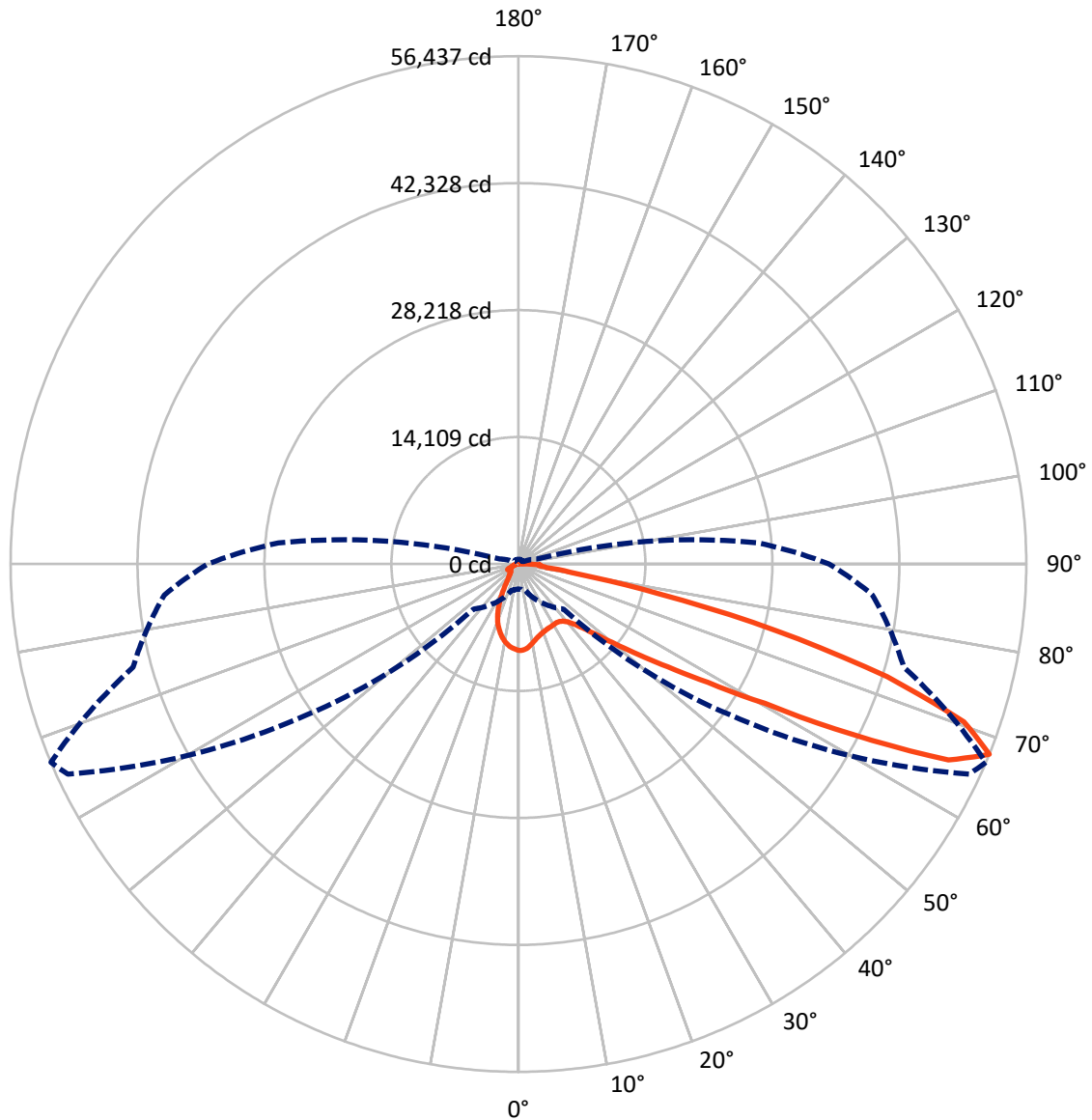


Based on 30 foot mounting height. Maximum calculated value = 10.7 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7380.0   | 0.0    | 7380.0  |
|                    | % Fixture | 16.6     | 0.0    | 16.6    |
| <b>Street Side</b> | Lumens    | 37161.5  | 0.0    | 37161.5 |
|                    | % Fixture | 83.4     | 0.0    | 83.4    |
| <b>Total</b>       | Lumens    | 44541.6  | 0.0    | 44541.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 819.7   | 1.8       |
| 10°-20°   | 1896.6  | 4.3       |
| 20°-30°   | 2570.8  | 5.8       |
| 30°-40°   | 3654.7  | 8.2       |
| 40°-50°   | 6114.5  | 13.7      |
| 50°-60°   | 9673.1  | 21.7      |
| 60°-70°   | 12322.5 | 27.7      |
| 70°-80°   | 6454.5  | 14.5      |
| 80°-90°   | 1035.2  | 2.3       |
| 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°    | 44541.6 | 100.0     |
| 0°-180°   | 44541.6 | 100.0     |

**Coefficient of Utilization**



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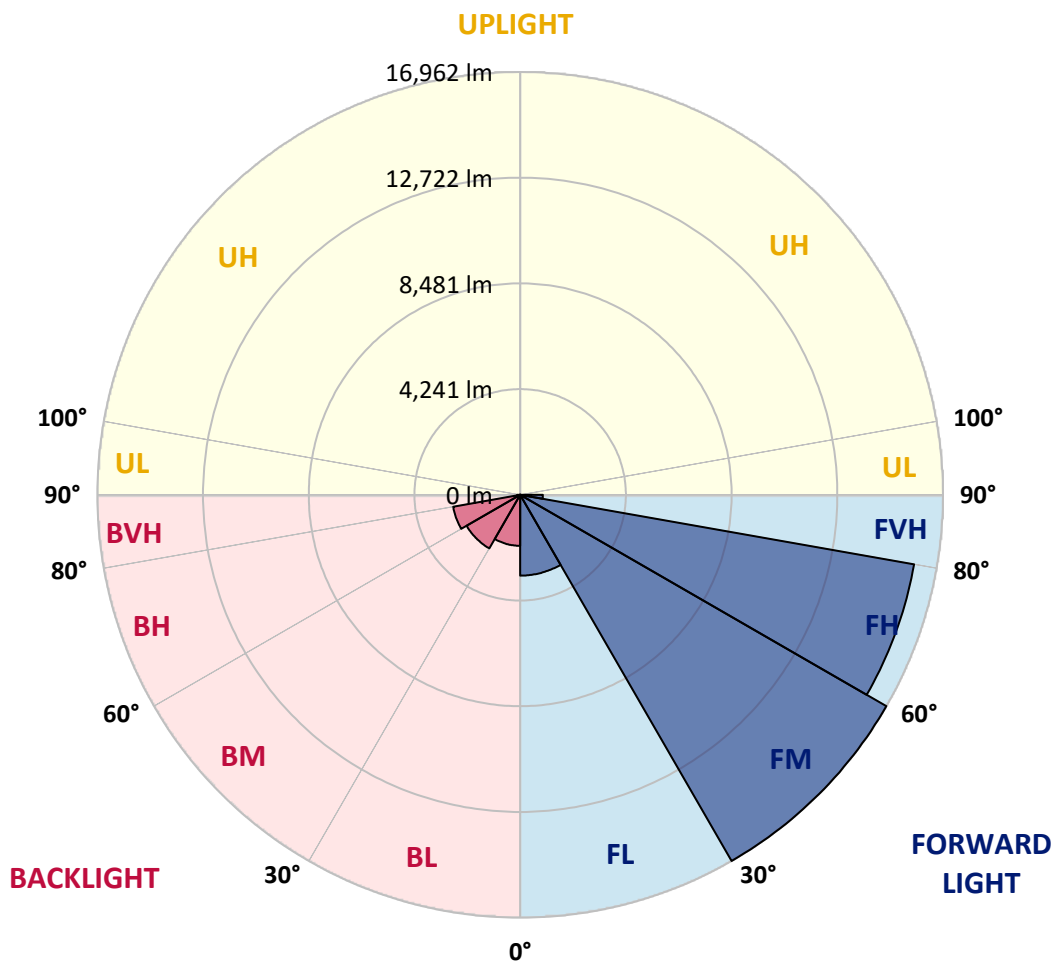
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|---------|-----------|-------------------------|------|---------|
|                |         |           | B                       | U    | G       |
| FL (0°-30°)    | 3241.5  | 7.3       |                         |      |         |
| FM (30°-60°)   | 16962.4 | 38.1      |                         |      |         |
| FH (60°-80°)   | 16047.4 | 36.0      |                         |      | G5      |
| FVH (80°-90°)  | 910.2   | 2.0       |                         |      | G5      |
| BL (0°-30°)    | 2045.5  | 4.6       | B3/2500                 |      |         |
| BM (30°-60°)   | 2479.9  | 5.6       | B2/2500                 |      |         |
| BH (60°-80°)   | 2729.6  | 6.1       | B4/5000                 |      | G4/5000 |
| BVH (80°-90°)  | 124.9   | 0.3       |                         |      | G2/225  |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 67°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9607.6  | 9607.6  | 9607.6  | 9607.6  | 9607.6  | 9607.6  | 9607.6  | 9607.6  | 9607.6  | 9607.6  | 9607.6  |
| 2.5°  | 9212.2  | 9227.5  | 9275.9  | 9306.6  | 9445.0  | 9504.2  | 9546.0  | 9587.7  | 9594.3  | 9614.1  | 9594.3  |
| 5°    | 8245.7  | 8278.6  | 8368.7  | 8469.7  | 8737.8  | 8948.6  | 9170.3  | 9401.0  | 9442.8  | 9592.1  | 9633.9  |
| 7.5°  | 7496.6  | 7487.9  | 7562.7  | 7683.4  | 7957.9  | 8250.0  | 8638.9  | 9097.9  | 9188.0  | 9524.0  | 9686.7  |
| 10°   | 6949.7  | 6943.2  | 7022.2  | 7147.5  | 7408.9  | 7685.5  | 8124.9  | 8753.1  | 8880.5  | 9416.5  | 9737.1  |
| 12.5° | 6545.6  | 6547.7  | 6626.8  | 6765.2  | 7031.0  | 7310.0  | 7755.8  | 8419.3  | 8581.8  | 9291.2  | 9789.8  |
| 15°   | 6277.6  | 6295.2  | 6358.9  | 6506.1  | 6765.2  | 7044.1  | 7481.4  | 8168.7  | 8351.2  | 9192.4  | 9849.1  |
| 17.5° | 6187.5  | 6216.1  | 6238.1  | 6345.6  | 6567.6  | 6846.5  | 7274.8  | 7984.2  | 8177.6  | 9124.3  | 9901.8  |
| 20°   | 6271.0  | 6303.9  | 6262.3  | 6299.5  | 6440.2  | 6686.2  | 7112.3  | 7839.2  | 8037.0  | 9047.4  | 9908.5  |
| 22.5° | 6629.0  | 6659.9  | 6536.7  | 6429.2  | 6420.4  | 6569.8  | 6978.4  | 7725.2  | 7929.3  | 8990.2  | 9910.6  |
| 25°   | 7259.5  | 7279.2  | 7072.7  | 6822.4  | 6578.6  | 6528.1  | 6883.8  | 7646.1  | 7863.6  | 8939.8  | 9868.9  |
| 27.5° | 8032.6  | 8047.9  | 7810.8  | 7441.7  | 6952.0  | 6626.8  | 6851.0  | 7599.9  | 7826.2  | 8895.8  | 9798.6  |
| 30°   | 8972.7  | 9045.3  | 8726.8  | 8261.1  | 7547.2  | 6918.9  | 6916.8  | 7575.8  | 7784.4  | 8821.1  | 9660.3  |
| 32.5° | 9934.7  | 9965.5  | 9745.9  | 9273.7  | 8348.8  | 7432.9  | 7101.3  | 7593.4  | 7773.5  | 8731.0  | 9484.6  |
| 35°   | 10910.0 | 10949.6 | 10806.8 | 10426.7 | 9445.0  | 8186.3  | 7461.5  | 7696.6  | 7841.6  | 8700.4  | 9361.4  |
| 37.5° | 12173.0 | 12225.8 | 12028.0 | 11588.8 | 10778.3 | 9207.7  | 8061.2  | 7955.7  | 8050.3  | 8788.2  | 9324.1  |
| 40°   | 14169.7 | 14145.5 | 13567.8 | 12913.2 | 12236.7 | 10514.8 | 8917.8  | 8395.0  | 8449.9  | 9071.5  | 9438.4  |
| 42.5° | 16493.6 | 16434.2 | 15439.2 | 14411.2 | 13840.1 | 12096.1 | 10051.2 | 9157.2  | 9146.3  | 9629.6  | 9840.4  |
| 45°   | 18347.4 | 18299.1 | 17403.0 | 16135.5 | 15678.7 | 13897.3 | 11516.4 | 10292.8 | 10211.6 | 10514.8 | 10582.8 |
| 47.5° | 19351.2 | 19353.4 | 18837.2 | 17802.7 | 17791.7 | 16186.0 | 13398.7 | 11935.8 | 11795.3 | 11937.9 | 11865.5 |
| 50°   | 18999.8 | 19046.0 | 18991.0 | 18661.5 | 19720.2 | 19186.4 | 15856.5 | 14226.7 | 13943.4 | 14083.9 | 13805.1 |
| 52.5° | 17299.6 | 17358.9 | 17684.0 | 18189.3 | 20530.8 | 22812.8 | 19467.6 | 17073.5 | 16744.0 | 16693.5 | 16383.7 |
| 55°   | 14286.0 | 14358.6 | 15021.8 | 16394.6 | 19856.5 | 25248.8 | 25165.4 | 20702.1 | 20177.1 | 19700.5 | 19568.7 |
| 57.5° | 9847.0  | 9967.8  | 11035.3 | 13073.7 | 17675.3 | 25984.6 | 31950.3 | 25874.8 | 24807.4 | 23142.3 | 23173.1 |
| 60°   | 5550.5  | 5691.1  | 6949.7  | 8801.5  | 13273.4 | 25185.2 | 37112.1 | 33709.7 | 31456.2 | 27173.0 | 27401.4 |
| 62.5° | 3529.8  | 3681.3  | 4636.8  | 6115.0  | 7964.6  | 20879.9 | 39227.4 | 44602.3 | 41740.1 | 32141.4 | 32365.6 |
| 65°   | 2857.7  | 2923.5  | 3373.9  | 5047.5  | 5783.4  | 12579.3 | 37621.7 | 53574.9 | 52507.5 | 38447.5 | 37402.1 |
| 67.5° | 2789.5  | 2811.5  | 3044.4  | 4237.0  | 5546.1  | 7070.6  | 30008.7 | 55253.0 | 56436.9 | 44336.4 | 39499.7 |
| 70°   | 2756.5  | 2833.6  | 3430.9  | 4043.8  | 5311.1  | 5963.5  | 18033.4 | 50653.5 | 52522.8 | 45876.3 | 36708.0 |
| 72.5° | 1337.7  | 1333.3  | 1726.5  | 3657.2  | 5983.3  | 6185.4  | 9264.8  | 40984.6 | 42860.4 | 39745.8 | 30164.5 |
| 75°   | 1078.4  | 986.2   | 942.3   | 1339.8  | 5752.7  | 6387.5  | 5904.2  | 28200.9 | 29558.4 | 26648.0 | 18543.0 |
| 77.5° | 1023.6  | 913.8   | 837.0   | 839.0   | 2431.5  | 6773.9  | 5001.5  | 15608.4 | 16003.8 | 12036.8 | 5080.5  |
| 80°   | 847.8   | 746.9   | 692.0   | 779.8   | 1177.3  | 6451.2  | 5407.7  | 7063.9  | 6481.9  | 2956.5  | 1691.2  |
| 82.5° | 588.7   | 536.0   | 520.6   | 654.5   | 942.3   | 4597.3  | 6288.6  | 3795.6  | 3182.8  | 1480.4  | 1043.3  |
| 85°   | 375.6   | 320.6   | 355.8   | 476.6   | 733.6   | 2121.8  | 6477.5  | 2958.7  | 2352.4  | 940.0   | 588.7   |
| 87.5° | 173.6   | 140.6   | 175.7   | 263.7   | 478.8   | 731.4   | 6163.5  | 3323.3  | 2422.8  | 496.5   | 371.2   |
| 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°    | 9607.6  | 9607.6  | 9607.6 | 9607.6 | 9607.6 | 9607.6 | 9607.6 | 9607.6 | 9607.6 | 9607.6 | 9607.6 |
| 2.5°  | 9612.0  | 9570.2  | 9537.2 | 9475.7 | 9407.6 | 9341.7 | 9282.5 | 9207.7 | 9185.8 | 9166.0 | 9196.8 |
| 5°    | 9642.6  | 9600.9  | 9480.2 | 9291.2 | 9082.6 | 8887.0 | 8691.6 | 8524.6 | 8421.4 | 8364.3 | 8397.3 |
| 7.5°  | 9688.8  | 9629.6  | 9379.1 | 9032.0 | 8656.4 | 8313.8 | 7960.2 | 7676.7 | 7468.1 | 7369.2 | 7397.8 |
| 10°   | 9730.5  | 9616.3  | 9207.7 | 8687.1 | 8138.0 | 7628.4 | 7070.6 | 6609.3 | 6266.7 | 6086.6 | 6130.5 |
| 12.5° | 9748.0  | 9565.8  | 8968.3 | 8256.6 | 7503.3 | 6756.4 | 5934.9 | 5245.3 | 4753.2 | 4573.1 | 4535.8 |
| 15°   | 9765.7  | 9508.6  | 8704.8 | 7766.8 | 6736.7 | 5680.2 | 4529.2 | 3703.4 | 3294.8 | 3204.8 | 3184.9 |
| 17.5° | 9770.1  | 9409.8  | 8406.0 | 7235.3 | 5838.4 | 4399.5 | 3097.0 | 2572.0 | 2574.4 | 2719.3 | 2736.9 |
| 20°   | 9724.0  | 9262.7  | 8043.7 | 6574.2 | 4762.1 | 3042.2 | 2126.2 | 2036.2 | 2367.8 | 2730.3 | 2774.1 |
| 22.5° | 9618.5  | 9067.2  | 7632.9 | 5803.2 | 3529.8 | 2003.2 | 1645.2 | 1744.0 | 2172.3 | 2616.0 | 2666.6 |
| 25°   | 9484.6  | 8830.0  | 7147.5 | 4909.1 | 2337.1 | 1432.1 | 1379.3 | 1500.2 | 1790.1 | 2086.8 | 2115.1 |
| 27.5° | 9302.2  | 8548.8  | 6602.7 | 3885.6 | 1517.7 | 1179.6 | 1214.7 | 1296.0 | 1414.6 | 1546.3 | 1559.5 |
| 30°   | 9067.2  | 8212.8  | 6020.6 | 2833.6 | 1146.5 | 1060.9 | 1111.5 | 1155.4 | 1205.9 | 1280.5 | 1287.1 |
| 32.5° | 8797.0  | 7889.9  | 5423.2 | 1957.0 | 1017.1 | 999.5  | 1038.9 | 1060.9 | 1100.5 | 1146.5 | 1151.0 |
| 35°   | 8570.8  | 7582.4  | 4803.7 | 1383.7 | 962.1  | 953.3  | 979.6  | 988.5  | 1025.8 | 1076.3 | 1080.8 |
| 37.5° | 8441.2  | 7332.0  | 4164.6 | 1115.9 | 924.7  | 911.5  | 927.0  | 927.0  | 979.6  | 1054.3 | 1065.3 |
| 40°   | 8449.9  | 7193.5  | 3525.4 | 1008.2 | 894.0  | 876.3  | 878.6  | 878.6  | 946.8  | 1028.0 | 1034.6 |
| 42.5° | 8689.3  | 7228.8  | 2958.7 | 966.4  | 869.7  | 850.1  | 839.0  | 845.7  | 902.7  | 955.4  | 959.8  |
| 45°   | 9251.6  | 7477.0  | 2427.1 | 940.0  | 845.7  | 839.0  | 814.9  | 812.6  | 834.6  | 858.8  | 858.8  |
| 47.5° | 10174.3 | 7966.7  | 2066.9 | 922.5  | 825.9  | 823.7  | 795.1  | 766.6  | 764.4  | 773.3  | 773.3  |
| 50°   | 11674.5 | 8810.1  | 1825.3 | 902.7  | 812.6  | 795.1  | 762.2  | 718.3  | 702.8  | 709.5  | 709.5  |
| 52.5° | 13923.6 | 10314.8 | 1733.0 | 876.3  | 784.1  | 755.7  | 718.3  | 674.4  | 661.2  | 663.4  | 663.4  |
| 55°   | 16873.6 | 12625.5 | 1719.8 | 845.7  | 753.4  | 707.2  | 676.6  | 643.5  | 628.3  | 632.5  | 632.5  |
| 57.5° | 20478.0 | 15821.4 | 1954.9 | 797.3  | 711.6  | 658.9  | 641.4  | 619.4  | 608.4  | 615.0  | 612.9  |
| 60°   | 24860.1 | 20003.5 | 2899.4 | 746.9  | 670.0  | 615.0  | 615.0  | 597.5  | 588.7  | 595.2  | 593.1  |
| 62.5° | 29907.6 | 24807.4 | 4076.7 | 709.5  | 625.9  | 579.9  | 588.7  | 579.9  | 571.1  | 575.5  | 573.3  |
| 65°   | 34384.1 | 27937.4 | 3817.5 | 680.9  | 582.1  | 546.9  | 562.2  | 557.8  | 551.3  | 555.7  | 553.5  |
| 67.5° | 34513.7 | 26777.5 | 2143.7 | 650.2  | 540.3  | 514.0  | 536.0  | 533.8  | 529.3  | 533.8  | 531.5  |
| 70°   | 30801.7 | 22610.8 | 1208.1 | 593.1  | 496.5  | 474.5  | 505.1  | 503.1  | 498.6  | 507.5  | 505.1  |
| 72.5° | 24677.8 | 16407.9 | 883.0  | 522.8  | 452.4  | 432.8  | 467.8  | 465.6  | 465.6  | 478.8  | 472.2  |
| 75°   | 14200.3 | 8443.3  | 705.1  | 448.1  | 406.4  | 391.0  | 421.8  | 423.9  | 428.3  | 445.9  | 432.8  |
| 77.5° | 4048.1  | 2631.4  | 575.5  | 380.1  | 349.3  | 342.7  | 373.4  | 377.7  | 380.1  | 399.7  | 382.1  |
| 80°   | 1504.7  | 1212.4  | 474.5  | 318.4  | 285.5  | 287.7  | 316.4  | 322.9  | 325.0  | 344.9  | 322.9  |
| 82.5° | 959.8   | 799.5   | 384.4  | 246.0  | 224.0  | 221.8  | 256.9  | 265.8  | 265.8  | 268.0  | 254.8  |
| 85°   | 560.2   | 478.8   | 290.0  | 178.0  | 158.1  | 151.5  | 191.1  | 206.5  | 200.0  | 195.6  | 186.7  |
| 87.5° | 375.6   | 329.5   | 178.0  | 98.9   | 85.7   | 81.2   | 112.0  | 123.0  | 118.5  | 112.0  | 105.5  |
| 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)