

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: P530217

Luminaire Tested: **GLAN-SA5B-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530217  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5B-830-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14976 lumens  
Efficiency: N/A  
Efficacy: 73.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

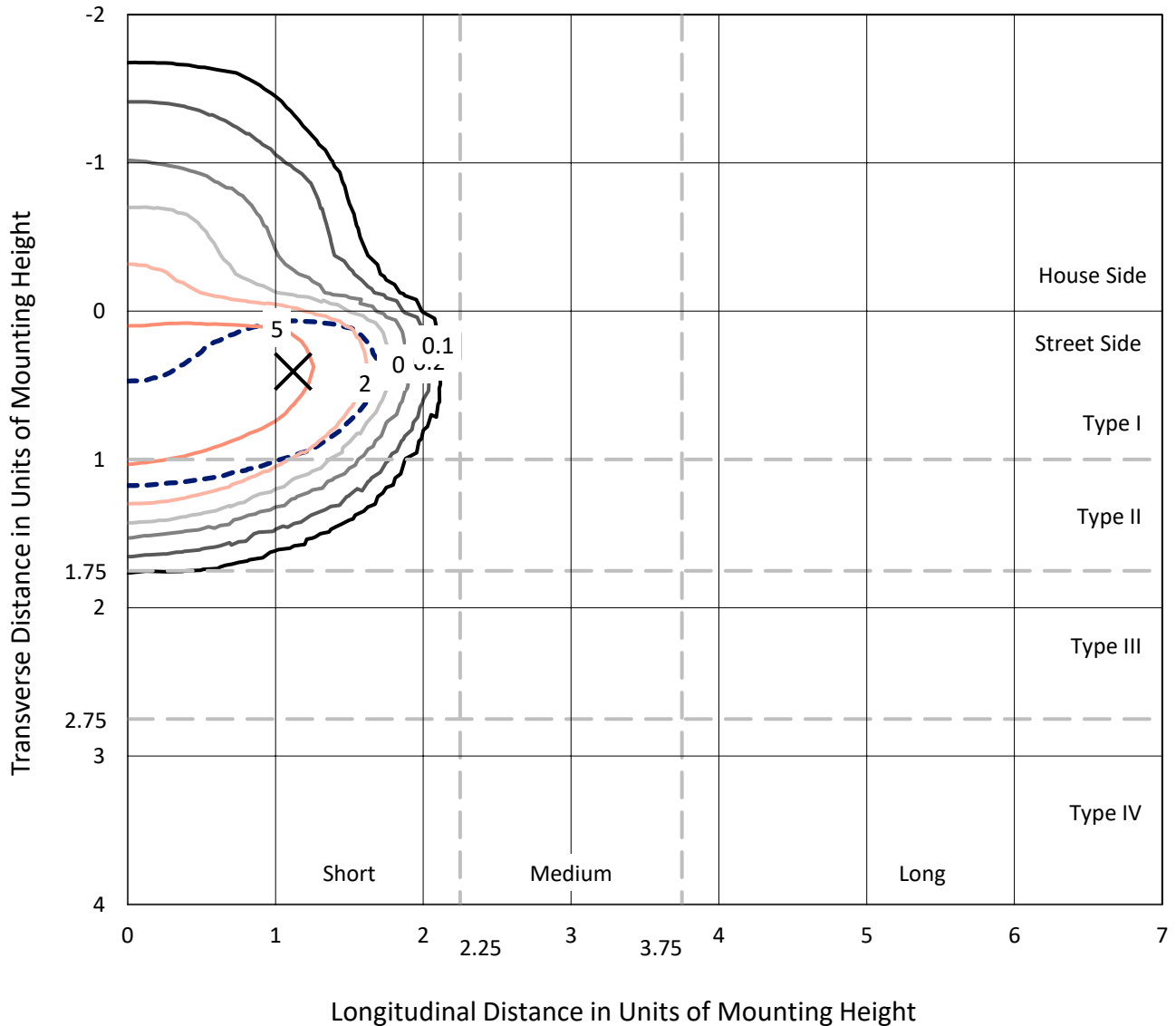
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

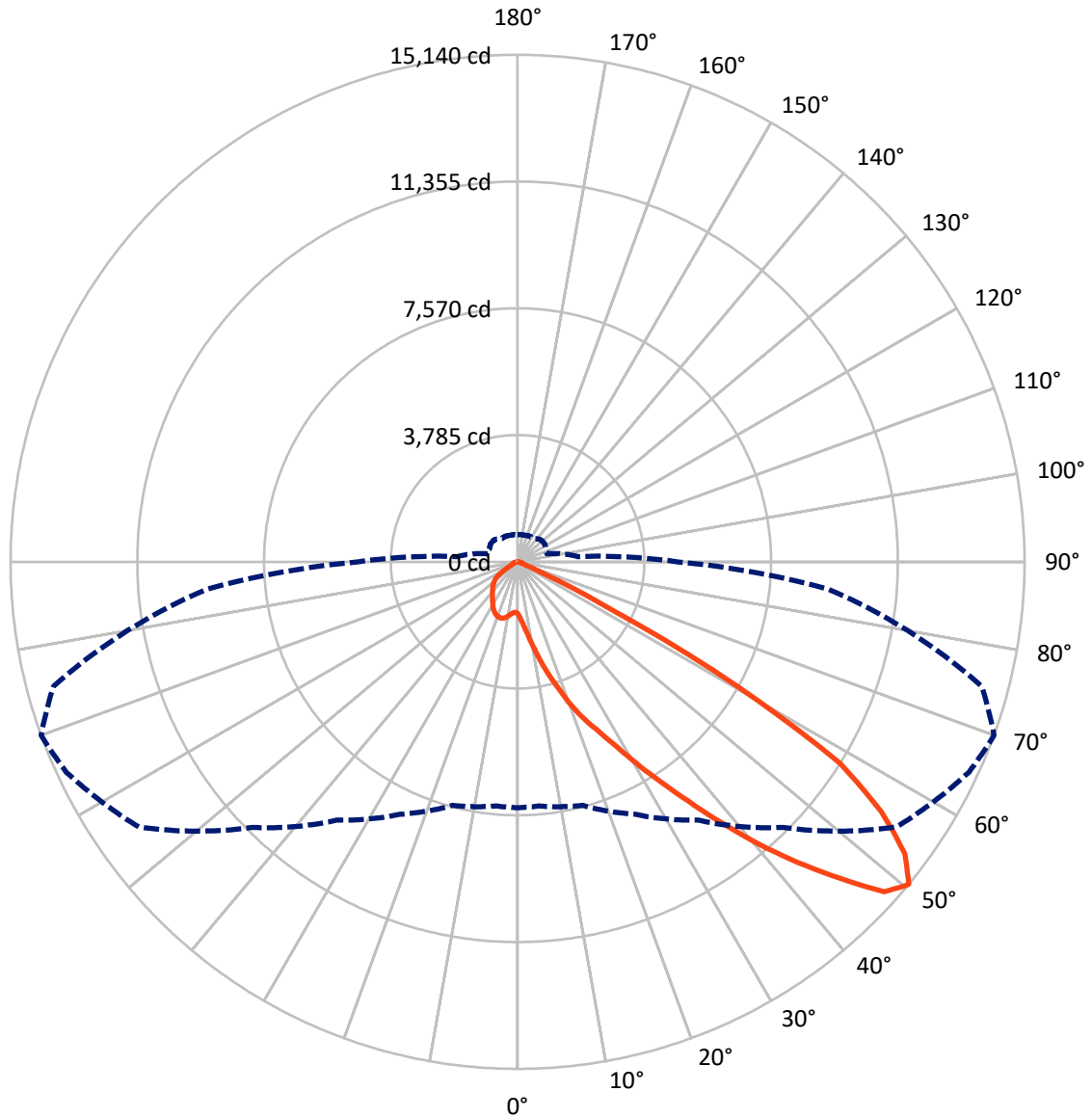
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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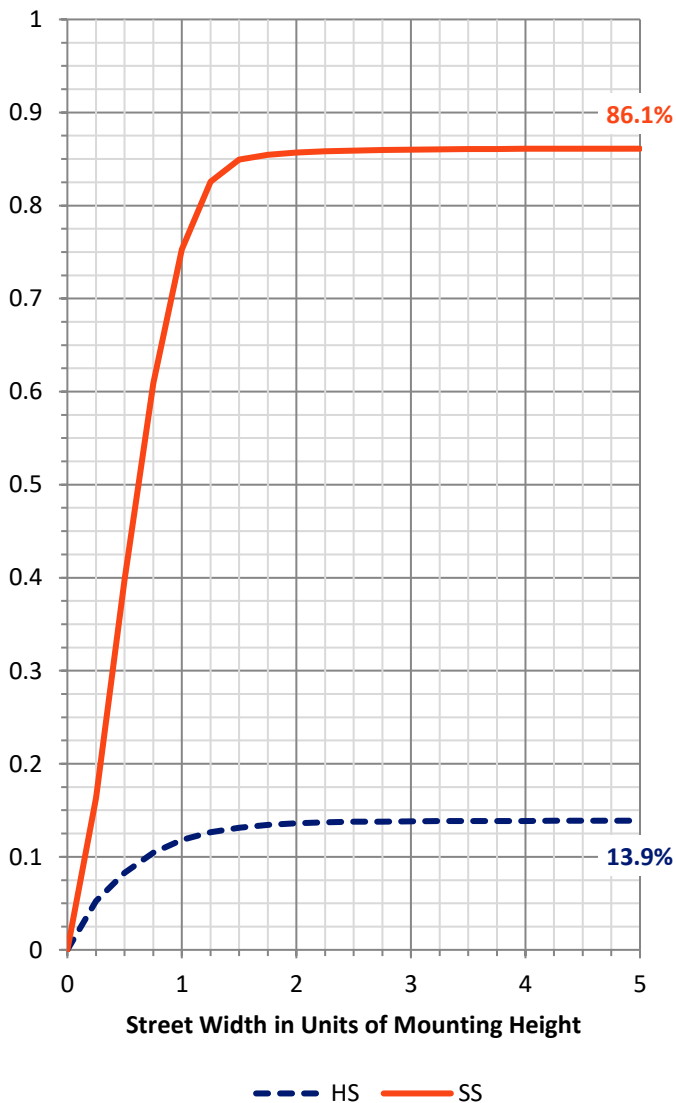
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2091.5   | 0.0    | 2091.5  |
|                    | % Fixture | 14.0     | 0.0    | 14.0    |
| <b>Street Side</b> | Lumens    | 12884.5  | 0.0    | 12884.5 |
|                    | % Fixture | 86.0     | 0.0    | 86.0    |
| <b>Total</b>       | Lumens    | 14976.0  | 0.0    | 14976.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 201.7   | 1.3       |
| 10°-20°   | 872.5   | 5.8       |
| 20°-30°   | 1830.5  | 12.2      |
| 30°-40°   | 3155.1  | 21.1      |
| 40°-50°   | 4611.1  | 30.8      |
| 50°-60°   | 3591.3  | 24.0      |
| 60°-70°   | 608.5   | 4.1       |
| 70°-80°   | 83.6    | 0.6       |
| 80°-90°   | 21.7    | 0.1       |
| 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°    | 14976.0 | 100.0     |
| 0°-180°   | 14976.0 | 100.0     |



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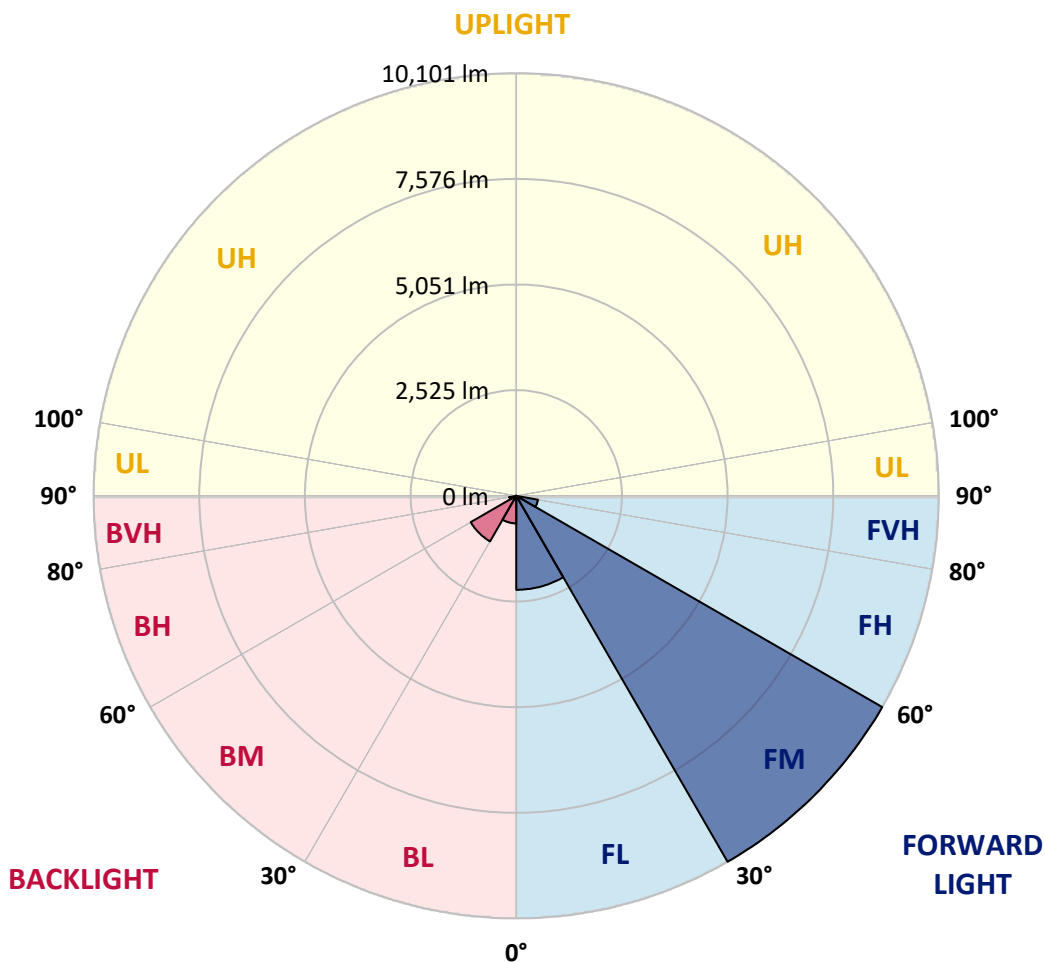
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|---------|-----------|-------------------------|------|--------|
|                |         |           | B                       | U    | G      |
| FL (0°-30°)    | 2246.6  | 15.0      |                         |      |        |
| FM (30°-60°)   | 10101.1 | 67.4      |                         |      |        |
| FH (60°-80°)   | 526.9   | 3.5       |                         |      | G0/660 |
| FVH (80°-90°)  | 10.0    | 0.1       |                         |      | G1/100 |
| BL (0°-30°)    | 658.1   | 4.4       | B2/1000                 |      |        |
| BM (30°-60°)   | 1256.5  | 8.4       | B2/2500                 |      |        |
| BH (60°-80°)   | 165.2   | 1.1       | B1/500                  |      | G1/500 |
| BVH (80°-90°)  | 11.6    | 0.1       |                         |      | G1/100 |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 55°     | 65°     | 70°     | 75°     | 85°    |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 1551.2 | 1551.2 | 1551.2 | 1551.2  | 1551.2  | 1551.2  | 1551.2  | 1551.2  | 1551.2  | 1551.2  | 1551.2 |
| 2.5°  | 2031.4 | 2016.6 | 1984.6 | 1925.5  | 1900.9  | 1841.8  | 1807.3  | 1740.8  | 1699.0  | 1652.2  | 1600.5 |
| 5°    | 2861.1 | 2784.8 | 2738.0 | 2671.5  | 2477.0  | 2356.4  | 2156.9  | 1987.0  | 1908.2  | 1822.1  | 1703.9 |
| 7.5°  | 3718.0 | 3668.8 | 3604.7 | 3461.9  | 3329.0  | 3077.8  | 2735.6  | 2361.3  | 2201.3  | 2053.5  | 1819.6 |
| 10°   | 4427.1 | 4289.2 | 4281.9 | 4176.0  | 4030.7  | 3730.3  | 3319.1  | 2853.7  | 2568.1  | 2351.5  | 1984.6 |
| 12.5° | 4922.0 | 4796.5 | 4853.1 | 4840.8  | 4705.4  | 4429.6  | 3954.4  | 3338.8  | 3040.9  | 2703.6  | 2154.5 |
| 15°   | 5372.6 | 5320.9 | 5303.7 | 5288.9  | 5234.7  | 5030.4  | 4604.4  | 3929.8  | 3498.9  | 3092.6  | 2346.5 |
| 17.5° | 5813.4 | 5680.4 | 5744.4 | 5756.7  | 5751.8  | 5567.2  | 5168.3  | 4491.1  | 3983.9  | 3503.8  | 2548.4 |
| 20°   | 6204.9 | 6217.2 | 6131.0 | 6113.8  | 6099.0  | 6091.6  | 5702.6  | 5047.6  | 4579.8  | 3934.7  | 2811.9 |
| 22.5° | 6707.2 | 6621.0 | 6697.3 | 6648.1  | 6552.1  | 6493.0  | 6195.0  | 5540.1  | 5096.9  | 4454.2  | 3080.3 |
| 25°   | 7300.6 | 7369.5 | 7189.8 | 7170.1  | 7064.2  | 6859.8  | 6591.4  | 6091.6  | 5594.2  | 4936.8  | 3370.8 |
| 27.5° | 8031.9 | 7911.2 | 7864.4 | 7756.1  | 7564.0  | 7477.9  | 7162.7  | 6660.4  | 6195.0  | 5444.0  | 3651.5 |
| 30°   | 8659.7 | 8627.7 | 8393.8 | 8265.8  | 8098.3  | 8095.9  | 7655.1  | 7431.1  | 6978.0  | 6239.3  | 4038.1 |
| 32.5° | 9171.9 | 9031.5 | 8945.4 | 8856.7  | 8721.3  | 8758.2  | 8386.4  | 8268.2  | 7812.7  | 6978.0  | 4493.6 |
| 35°   | 9514.1 | 9413.2 | 9361.5 | 9226.1  | 9186.7  | 9351.6  | 9196.5  | 9147.3  | 8773.0  | 8017.1  | 5027.9 |
| 37.5° | 9622.5 | 9654.5 | 9644.6 | 9474.7  | 9558.5  | 10004.1 | 10203.6 | 10075.5 | 9878.6  | 9112.8  | 5606.5 |
| 40°   | 9718.5 | 9740.7 | 9691.4 | 9890.9  | 10129.7 | 10636.9 | 11358.4 | 11146.6 | 11072.7 | 10223.3 | 6411.7 |
| 42.5° | 9772.7 | 9755.4 | 9755.4 | 10100.2 | 10462.1 | 11481.5 | 12473.8 | 12333.4 | 12276.8 | 11405.2 | 7342.4 |
| 45°   | 9538.8 | 9371.3 | 9551.1 | 10018.9 | 10747.7 | 11897.6 | 13365.1 | 13559.6 | 13478.4 | 12811.1 | 8430.8 |
| 47.5° | 8664.7 | 8768.1 | 8869.0 | 9494.4  | 10400.6 | 11769.6 | 13911.7 | 14574.1 | 14724.3 | 13993.0 | 9144.8 |
| 50°   | 7342.4 | 7320.3 | 7529.6 | 8317.5  | 9418.1  | 11218.0 | 13805.8 | 14867.1 | 15140.4 | 14347.5 | 9295.0 |
| 52.5° | 5340.6 | 5503.1 | 5729.7 | 6512.7  | 7817.6  | 9789.9  | 12439.3 | 14111.2 | 14475.6 | 13911.7 | 9196.5 |
| 55°   | 3109.8 | 2930.1 | 3439.8 | 4102.1  | 5333.2  | 7384.3  | 10516.3 | 12508.2 | 13182.9 | 13118.9 | 8699.1 |
| 57.5° | 1245.9 | 1206.5 | 1381.3 | 1861.5  | 2782.3  | 4577.3  | 7647.8  | 10277.4 | 11358.4 | 12015.8 | 7645.3 |
| 60°   | 546.6  | 534.3  | 627.9  | 758.4   | 1137.6  | 2110.1  | 4183.4  | 6392.0  | 7519.7  | 8396.3  | 5261.8 |
| 62.5° | 394.0  | 389.0  | 435.8  | 482.6   | 600.8   | 918.4   | 1758.0  | 2575.5  | 3210.8  | 3878.0  | 2356.4 |
| 65°   | 317.6  | 329.9  | 362.0  | 386.6   | 443.2   | 509.7   | 620.5   | 716.5   | 879.0   | 911.0   | 519.5  |
| 67.5° | 258.5  | 268.4  | 297.9  | 325.0   | 334.9   | 275.8   | 285.6   | 251.1   | 251.1   | 224.1   | 179.7  |
| 70°   | 189.6  | 192.1  | 226.5  | 258.5   | 206.8   | 110.8   | 194.5   | 194.5   | 174.8   | 167.4   | 152.7  |
| 72.5° | 140.3  | 142.8  | 169.9  | 160.0   | 81.3    | 68.9    | 142.8   | 157.6   | 142.8   | 135.4   | 123.1  |
| 75°   | 103.4  | 105.9  | 88.6   | 36.9    | 34.5    | 44.3    | 83.7    | 108.3   | 103.4   | 101.0   | 93.6   |
| 77.5° | 19.7   | 14.8   | 12.3   | 17.2    | 24.6    | 36.9    | 54.2    | 66.5    | 68.9    | 73.9    | 68.9   |
| 80°   | 2.5    | 2.5    | 7.4    | 14.8    | 27.1    | 39.4    | 56.6    | 64.0    | 66.5    | 68.9    | 64.0   |
| 82.5° | 0.0    | 2.5    | 7.4    | 14.8    | 27.1    | 36.9    | 49.2    | 56.6    | 61.6    | 64.0    | 61.6   |
| 85°   | 0.0    | 2.5    | 4.9    | 12.3    | 22.2    | 27.1    | 24.6    | 17.2    | 14.8    | 17.2    | 12.3   |
| 87.5° | 0.0    | 0.0    | 2.5    | 2.5     | 4.9     | 4.9     | 4.9     | 4.9     | 4.9     | 4.9     | 4.9    |
| 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°    | 1551.2 | 1551.2 | 1551.2 | 1551.2 | 1551.2 | 1551.2 | 1551.2 | 1551.2 | 1551.2 | 1551.2 | 1551.2 |
| 2.5°  | 1570.9 | 1561.1 | 1526.6 | 1489.7 | 1457.7 | 1472.4 | 1457.7 | 1445.3 | 1450.3 | 1445.3 | 1440.4 |
| 5°    | 1657.1 | 1612.8 | 1538.9 | 1506.9 | 1479.8 | 1477.4 | 1470.0 | 1467.5 | 1470.0 | 1470.0 | 1447.8 |
| 7.5°  | 1738.3 | 1666.9 | 1588.2 | 1553.7 | 1521.7 | 1524.1 | 1506.9 | 1506.9 | 1504.4 | 1492.1 | 1487.2 |
| 10°   | 1861.5 | 1765.4 | 1664.5 | 1602.9 | 1563.5 | 1556.1 | 1538.9 | 1521.7 | 1521.7 | 1521.7 | 1497.0 |
| 12.5° | 1996.9 | 1876.2 | 1738.3 | 1666.9 | 1620.2 | 1583.2 | 1556.1 | 1551.2 | 1524.1 | 1519.2 | 1506.9 |
| 15°   | 2115.1 | 1962.4 | 1787.6 | 1689.1 | 1630.0 | 1580.8 | 1538.9 | 1511.8 | 1499.5 | 1492.1 | 1482.3 |
| 17.5° | 2230.8 | 2036.3 | 1814.7 | 1689.1 | 1625.1 | 1568.5 | 1524.1 | 1499.5 | 1470.0 | 1474.9 | 1455.2 |
| 20°   | 2385.9 | 2115.1 | 1822.1 | 1657.1 | 1578.3 | 1524.1 | 1465.0 | 1452.7 | 1435.5 | 1420.7 | 1425.6 |
| 22.5° | 2536.1 | 2171.7 | 1799.9 | 1617.7 | 1504.4 | 1440.4 | 1410.9 | 1396.1 | 1388.7 | 1376.4 | 1359.2 |
| 25°   | 2671.5 | 2233.3 | 1765.4 | 1546.3 | 1425.6 | 1378.9 | 1351.8 | 1349.3 | 1332.1 | 1332.1 | 1300.1 |
| 27.5° | 2809.4 | 2255.4 | 1706.3 | 1462.6 | 1356.7 | 1329.6 | 1317.3 | 1312.4 | 1305.0 | 1287.8 | 1265.6 |
| 30°   | 2967.0 | 2262.8 | 1620.2 | 1376.4 | 1295.1 | 1265.6 | 1282.8 | 1295.1 | 1263.1 | 1231.1 | 1241.0 |
| 32.5° | 3097.5 | 2245.6 | 1516.7 | 1295.1 | 1250.8 | 1236.1 | 1270.5 | 1282.8 | 1245.9 | 1211.4 | 1194.2 |
| 35°   | 3255.1 | 2203.7 | 1415.8 | 1231.1 | 1206.5 | 1236.1 | 1265.6 | 1265.6 | 1191.7 | 1149.9 | 1140.0 |
| 37.5° | 3493.9 | 2156.9 | 1322.2 | 1177.0 | 1159.7 | 1221.3 | 1260.7 | 1233.6 | 1117.9 | 1066.2 | 1053.8 |
| 40°   | 3750.0 | 2127.4 | 1231.1 | 1122.8 | 1135.1 | 1196.7 | 1218.8 | 1135.1 | 1016.9 | 984.9  | 975.1  |
| 42.5° | 4121.8 | 2068.3 | 1149.9 | 1076.0 | 1112.9 | 1162.2 | 1162.2 | 1012.0 | 967.7  | 950.4  | 948.0  |
| 45°   | 4584.7 | 2026.4 | 1078.5 | 1036.6 | 1080.9 | 1093.2 | 1053.8 | 948.0  | 916.0  | 911.0  | 913.5  |
| 47.5° | 4811.2 | 1945.2 | 1004.6 | 989.8  | 1021.8 | 1024.3 | 920.9  | 896.3  | 869.2  | 861.8  | 856.9  |
| 50°   | 4776.8 | 1799.9 | 908.6  | 928.3  | 972.6  | 948.0  | 839.6  | 844.6  | 819.9  | 817.5  | 805.2  |
| 52.5° | 4535.5 | 1570.9 | 812.5  | 859.3  | 908.6  | 837.2  | 773.1  | 768.2  | 768.2  | 736.2  | 723.9  |
| 55°   | 4020.9 | 1265.6 | 696.8  | 755.9  | 815.0  | 704.2  | 687.0  | 682.0  | 669.7  | 640.2  | 632.8  |
| 57.5° | 3183.7 | 928.3  | 524.5  | 588.5  | 691.9  | 598.3  | 595.9  | 573.7  | 541.7  | 519.5  | 519.5  |
| 60°   | 1893.5 | 534.3  | 329.9  | 359.5  | 458.0  | 485.1  | 539.2  | 529.4  | 475.2  | 440.7  | 430.9  |
| 62.5° | 864.3  | 275.8  | 209.3  | 214.2  | 246.2  | 315.2  | 423.5  | 490.0  | 413.7  | 354.6  | 349.6  |
| 65°   | 290.5  | 204.4  | 172.4  | 165.0  | 169.9  | 189.6  | 253.6  | 347.2  | 329.9  | 273.3  | 263.5  |
| 67.5° | 177.3  | 182.2  | 162.5  | 150.2  | 150.2  | 147.7  | 145.3  | 157.6  | 194.5  | 189.6  | 192.1  |
| 70°   | 152.7  | 167.4  | 150.2  | 135.4  | 130.5  | 123.1  | 103.4  | 86.2   | 73.9   | 86.2   | 91.1   |
| 72.5° | 123.1  | 133.0  | 128.0  | 115.7  | 103.4  | 93.6   | 73.9   | 56.6   | 41.9   | 36.9   | 36.9   |
| 75°   | 91.1   | 98.5   | 103.4  | 88.6   | 78.8   | 66.5   | 54.2   | 36.9   | 22.2   | 14.8   | 14.8   |
| 77.5° | 66.5   | 73.9   | 76.3   | 68.9   | 59.1   | 46.8   | 34.5   | 24.6   | 12.3   | 4.9    | 4.9    |
| 80°   | 56.6   | 66.5   | 73.9   | 68.9   | 61.6   | 44.3   | 32.0   | 17.2   | 9.8    | 2.5    | 2.5    |
| 82.5° | 54.2   | 66.5   | 73.9   | 66.5   | 59.1   | 41.9   | 32.0   | 19.7   | 7.4    | 2.5    | 2.5    |
| 85°   | 12.3   | 17.2   | 22.2   | 27.1   | 32.0   | 32.0   | 24.6   | 14.8   | 7.4    | 2.5    | 2.5    |
| 87.5° | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 4.9    | 2.5    | 2.5    | 0.0    |
| 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)