

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: P453935

Luminaire Tested: **GLAN-SA5A-730-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453935  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA5A-730-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21061 lumens  
Efficiency: N/A  
Efficacy: 136.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 154  
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

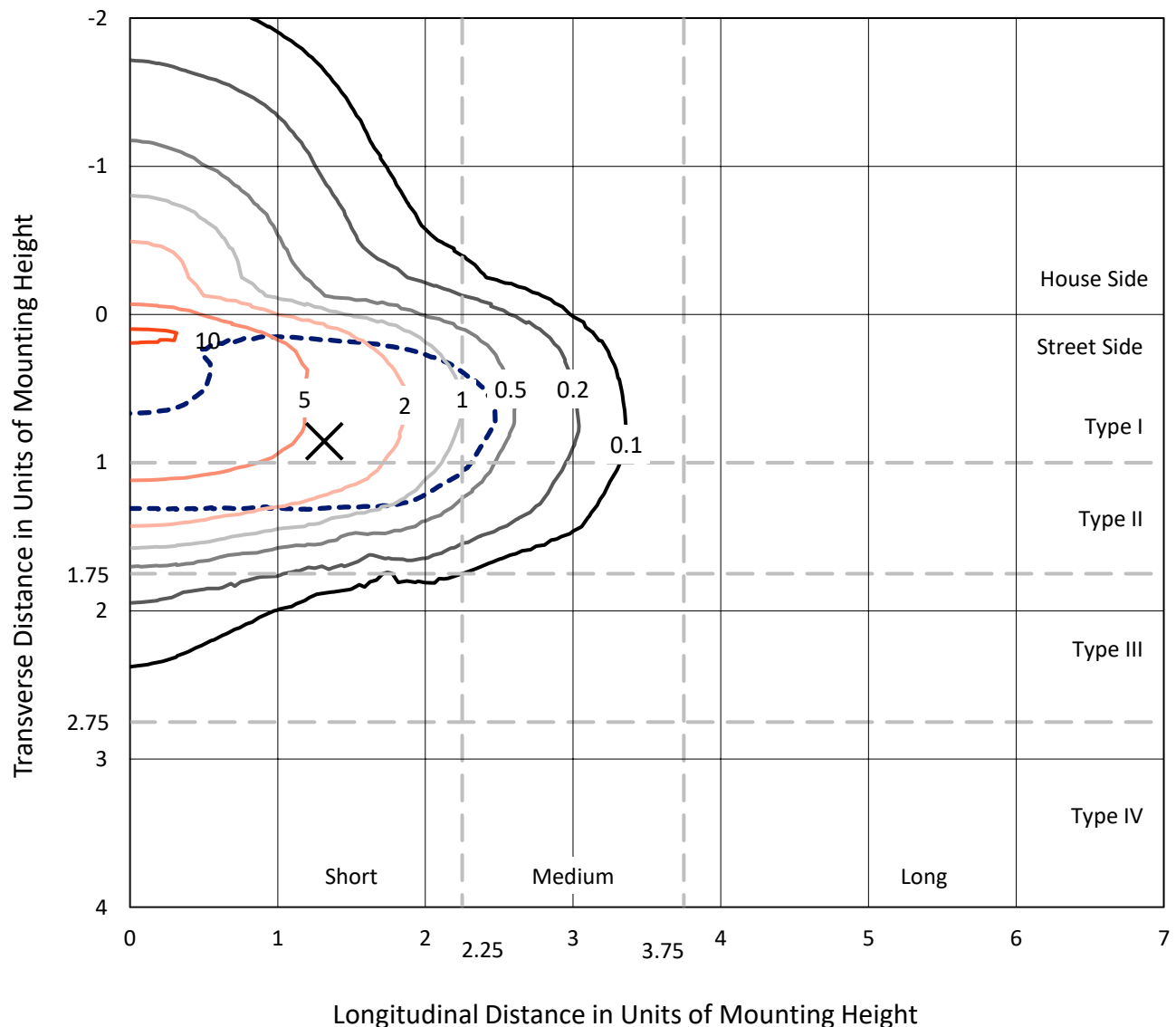


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

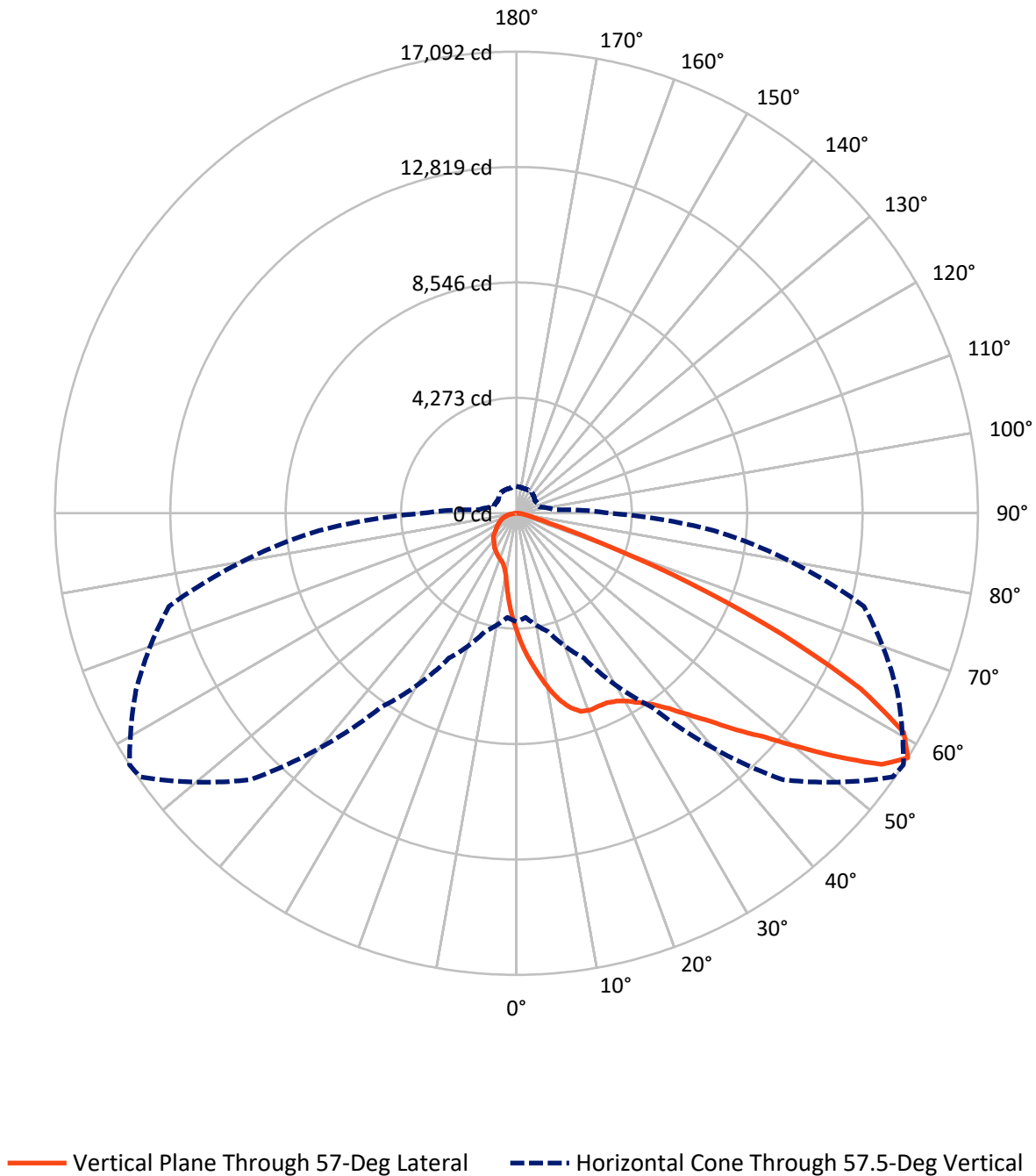


Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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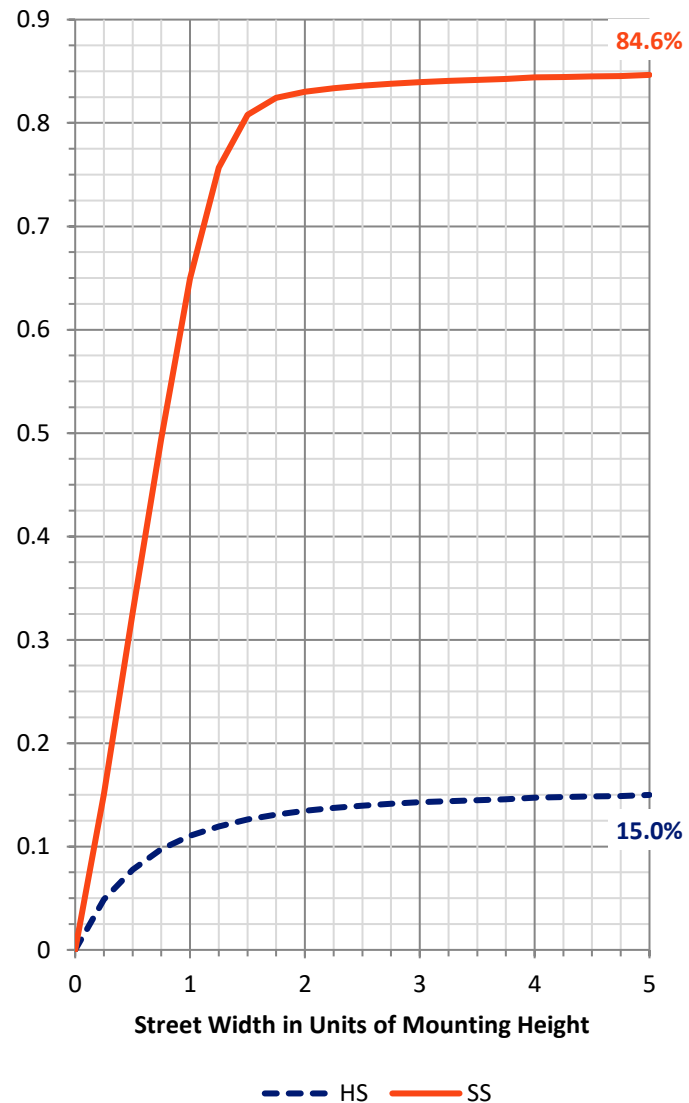
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3202.8   | 0.0    | 3202.8  |
|                    | % Fixture | 15.2     | 0.0    | 15.2    |
| <b>Street Side</b> | Lumens    | 17858.2  | 0.0    | 17858.2 |
|                    | % Fixture | 84.8     | 0.0    | 84.8    |
| <b>Total</b>       | Lumens    | 21061.0  | 0.0    | 21061.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 425.3   | 2.0       |
| 10°-20°   | 1253.3  | 6.0       |
| 20°-30°   | 2081.0  | 9.9       |
| 30°-40°   | 3134.7  | 14.9      |
| 40°-50°   | 4706.4  | 22.3      |
| 50°-60°   | 5275.3  | 25.0      |
| 60°-70°   | 3087.3  | 14.7      |
| 70°-80°   | 913.2   | 4.3       |
| 80°-90°   | 184.6   | 0.9       |
| 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°    | 21061.0 | 100.0     |
| 0°-180°   | 21061.0 | 100.0     |

**Coefficient of Utilization**



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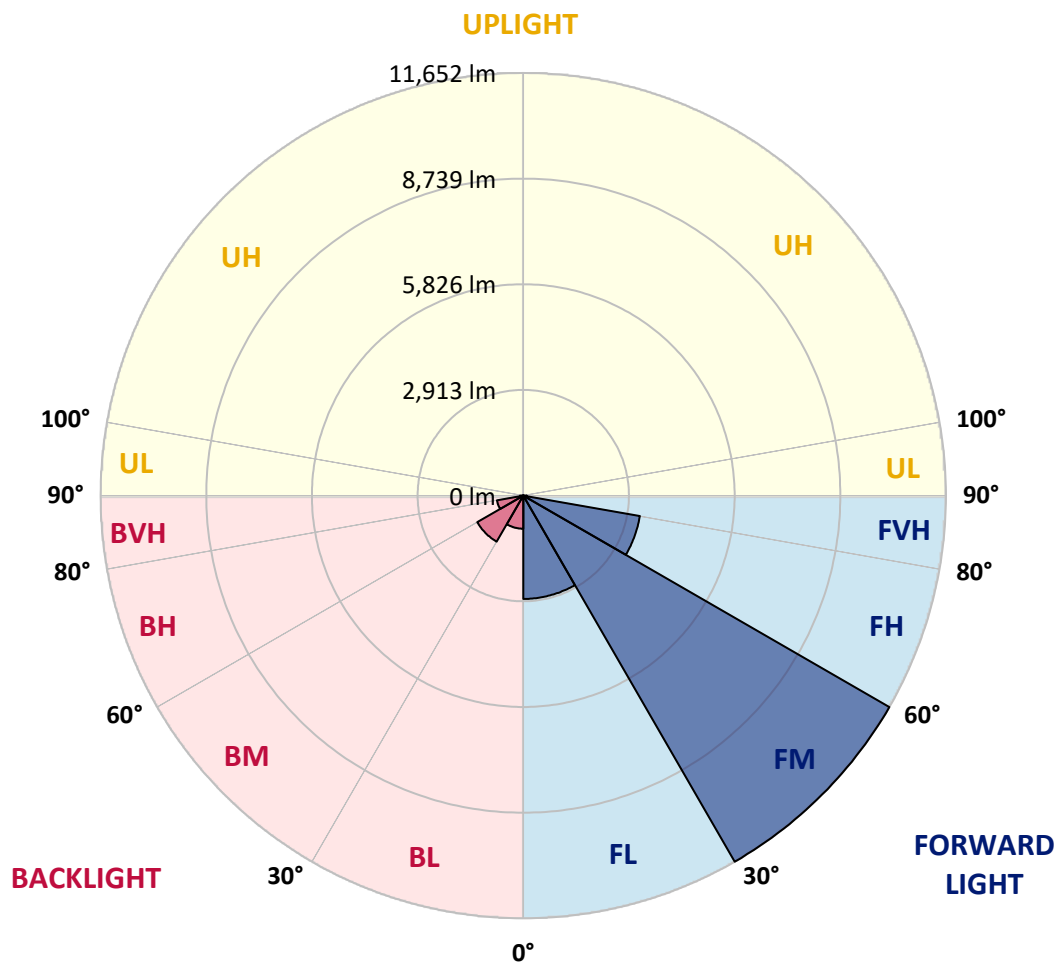
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2847.0  | 13.5      |                         |      |         |
| FM   | (30°-60°)   | 11651.9 | 55.3      |                         |      |         |
| FH   | (60°-80°)   | 3263.6  | 15.5      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 95.8    | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 912.6   | 4.3       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1464.4  | 7.0       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 736.9   | 3.5       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 88.8    | 0.4       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 57°     | 65°     | 75°     | 85°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0°    | 4424.7  | 4424.7  | 4424.7  | 4424.7  | 4424.7  | 4424.7  | 4424.7  | 4424.7  | 4424.7  | 4424.7  | 4424.7 |
| 2.5°  | 5498.0  | 5438.0  | 5390.8  | 5349.3  | 5295.1  | 5148.7  | 5002.3  | 5000.0  | 4883.5  | 4703.7  | 4519.2 |
| 5°    | 6393.8  | 6313.1  | 6323.4  | 6194.3  | 6065.2  | 5853.1  | 5542.9  | 5526.8  | 5278.9  | 4942.3  | 4599.9 |
| 7.5°  | 6977.1  | 6978.3  | 6946.0  | 6872.2  | 6732.7  | 6491.8  | 6140.1  | 6060.6  | 5715.9  | 5205.2  | 4692.1 |
| 10°   | 6947.1  | 6978.3  | 7032.4  | 7095.9  | 7138.5  | 7019.8  | 6699.3  | 6602.4  | 6154.0  | 5523.4  | 4794.7 |
| 12.5° | 6548.2  | 6596.7  | 6673.9  | 6833.0  | 7090.1  | 7286.1  | 7176.6  | 7098.2  | 6661.2  | 5840.4  | 4907.7 |
| 15°   | 6299.2  | 6328.0  | 6370.7  | 6477.9  | 6754.6  | 7223.8  | 7507.4  | 7465.9  | 7139.7  | 6198.9  | 5034.5 |
| 17.5° | 6223.1  | 6252.0  | 6265.8  | 6331.5  | 6528.6  | 7009.4  | 7637.7  | 7711.5  | 7563.9  | 6528.6  | 5162.5 |
| 20°   | 6299.2  | 6313.1  | 6313.1  | 6352.3  | 6506.7  | 6883.7  | 7631.9  | 7780.6  | 7912.1  | 6924.1  | 5282.4 |
| 22.5° | 6498.7  | 6504.4  | 6496.4  | 6510.2  | 6625.5  | 6918.3  | 7577.7  | 7762.2  | 8193.4  | 7259.6  | 5375.8 |
| 25°   | 6822.6  | 6831.8  | 6778.8  | 6746.5  | 6830.7  | 7070.5  | 7607.7  | 7777.2  | 8413.6  | 7580.1  | 5438.0 |
| 27.5° | 7190.4  | 7201.9  | 7137.4  | 7062.4  | 7101.6  | 7258.4  | 7725.3  | 7877.5  | 8578.4  | 7895.9  | 5477.2 |
| 30°   | 7641.2  | 7645.8  | 7537.4  | 7447.5  | 7422.1  | 7538.5  | 7925.9  | 8067.7  | 8783.6  | 8268.3  | 5536.0 |
| 32.5° | 8102.3  | 8136.9  | 7997.4  | 7870.6  | 7827.9  | 7863.7  | 8222.2  | 8359.4  | 9028.0  | 8668.4  | 5630.6 |
| 35°   | 8729.5  | 8735.2  | 8568.1  | 8413.6  | 8272.9  | 8319.0  | 8601.5  | 8700.6  | 9365.8  | 9130.6  | 5764.3 |
| 37.5° | 9512.2  | 9565.3  | 9334.7  | 9046.5  | 8873.6  | 8806.7  | 9060.3  | 9168.7  | 9839.7  | 9697.9  | 5966.0 |
| 40°   | 10381.5 | 10401.1 | 10204.0 | 10024.1 | 9708.2  | 9514.6  | 9689.8  | 9807.4  | 10424.2 | 10374.6 | 6200.1 |
| 42.5° | 10928.0 | 10970.6 | 10985.6 | 10967.2 | 10729.7 | 10404.6 | 10471.4 | 10526.8 | 11115.9 | 11009.8 | 6439.9 |
| 45°   | 11112.4 | 11175.8 | 11390.3 | 11844.5 | 11869.8 | 11549.3 | 11393.7 | 11446.7 | 11869.8 | 11650.8 | 6669.3 |
| 47.5° | 10806.9 | 10915.3 | 11310.7 | 12242.2 | 12939.7 | 12963.9 | 12494.7 | 12378.3 | 12556.9 | 12182.3 | 6835.3 |
| 50°   | 10017.2 | 10040.3 | 10645.5 | 11994.4 | 13441.2 | 14316.2 | 13830.9 | 13614.1 | 13209.5 | 12575.4 | 6949.4 |
| 52.5° | 8795.2  | 8821.7  | 9328.9  | 10842.6 | 13132.2 | 15261.6 | 15394.1 | 15006.8 | 13872.4 | 12880.9 | 7024.4 |
| 55°   | 6528.6  | 6682.0  | 7240.0  | 8702.9  | 11668.1 | 15172.8 | 16636.9 | 16416.7 | 14673.6 | 13123.0 | 7142.0 |
| 57.5° | 4014.3  | 3873.6  | 4535.3  | 5921.1  | 8775.6  | 13953.1 | 17020.8 | 17092.3 | 15555.5 | 13325.9 | 7339.1 |
| 60°   | 1846.9  | 1874.5  | 2147.8  | 3053.9  | 5349.3  | 10915.3 | 16031.7 | 16483.6 | 16043.2 | 13319.0 | 7388.7 |
| 62.5° | 1272.8  | 1247.4  | 1178.2  | 1340.8  | 2439.5  | 6903.3  | 13541.5 | 14307.0 | 15065.6 | 12905.1 | 7191.5 |
| 65°   | 1137.9  | 1112.5  | 978.8   | 933.8   | 1120.6  | 3009.0  | 9844.3  | 10810.4 | 12684.9 | 11860.6 | 6700.4 |
| 67.5° | 1062.9  | 1028.4  | 890.0   | 802.4   | 800.1   | 1197.8  | 5804.6  | 6967.9  | 9408.5  | 10027.6 | 5805.8 |
| 70°   | 984.5   | 956.9   | 819.7   | 722.8   | 681.3   | 752.8   | 2551.3  | 3339.8  | 6109.0  | 7226.1  | 4522.7 |
| 72.5° | 906.1   | 873.9   | 750.5   | 646.8   | 592.6   | 563.7   | 977.6   | 1271.6  | 3451.7  | 4332.4  | 2772.6 |
| 75°   | 792.0   | 775.9   | 671.0   | 585.7   | 526.9   | 455.4   | 620.2   | 707.9   | 1650.9  | 1989.8  | 1391.5 |
| 77.5° | 692.9   | 675.6   | 596.0   | 511.9   | 469.2   | 370.1   | 440.4   | 480.7   | 696.3   | 807.0   | 628.3  |
| 80°   | 507.3   | 524.6   | 502.6   | 451.9   | 418.5   | 290.5   | 296.3   | 329.7   | 413.9   | 457.7   | 383.9  |
| 82.5° | 321.6   | 353.9   | 387.4   | 348.2   | 317.0   | 229.4   | 205.2   | 217.9   | 282.5   | 299.7   | 170.6  |
| 85°   | 134.9   | 137.2   | 224.8   | 212.1   | 181.0   | 136.0   | 123.4   | 130.3   | 151.0   | 157.9   | 79.5   |
| 87.5° | 51.9    | 50.7    | 79.5    | 73.8    | 56.5    | 39.2    | 39.2    | 43.8    | 59.9    | 55.3    | 25.4   |
| 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°    | 4424.7 | 4424.7 | 4424.7 | 4424.7 | 4424.7 | 4424.7 | 4424.7 | 4424.7 | 4424.7 | 4424.7 | 4424.7 |
| 2.5°  | 4439.7 | 4357.8 | 4195.3 | 3993.5 | 3845.9 | 3679.9 | 3533.5 | 3428.6 | 3389.4 | 3371.0 | 3336.4 |
| 5°    | 4436.2 | 4274.8 | 3938.2 | 3585.4 | 3301.8 | 3011.3 | 2765.7 | 2606.6 | 2592.8 | 2486.7 | 2476.3 |
| 7.5°  | 4437.4 | 4190.6 | 3654.6 | 3135.8 | 2703.5 | 2406.0 | 2203.1 | 2150.1 | 2086.7 | 2070.5 | 2078.6 |
| 10°   | 4440.8 | 4083.4 | 3350.2 | 2690.8 | 2272.3 | 2077.5 | 2001.4 | 1980.6 | 1982.9 | 1989.8 | 1991.0 |
| 12.5° | 4445.4 | 3979.7 | 3034.3 | 2353.0 | 2030.2 | 1949.5 | 1941.4 | 1959.9 | 1979.5 | 1994.4 | 1997.9 |
| 15°   | 4451.2 | 3860.9 | 2726.5 | 2080.9 | 1909.1 | 1902.2 | 1928.7 | 1959.9 | 1987.5 | 2009.4 | 2012.9 |
| 17.5° | 4444.3 | 3722.6 | 2468.3 | 1913.7 | 1842.3 | 1875.7 | 1919.5 | 1958.7 | 1984.1 | 2004.8 | 2007.1 |
| 20°   | 4428.1 | 3568.1 | 2219.3 | 1796.2 | 1800.8 | 1855.0 | 1902.2 | 1939.1 | 1966.8 | 1977.2 | 1985.2 |
| 22.5° | 4365.9 | 3383.6 | 2002.5 | 1705.1 | 1751.2 | 1826.1 | 1882.6 | 1904.5 | 1873.4 | 1851.5 | 1857.3 |
| 25°   | 4259.8 | 3143.8 | 1800.8 | 1631.3 | 1706.2 | 1785.8 | 1843.4 | 1790.4 | 1765.0 | 1755.8 | 1760.4 |
| 27.5° | 4127.2 | 2881.0 | 1648.6 | 1554.1 | 1648.6 | 1740.8 | 1724.7 | 1715.5 | 1703.9 | 1688.9 | 1692.4 |
| 30°   | 3984.3 | 2623.9 | 1519.5 | 1494.1 | 1586.3 | 1639.4 | 1646.3 | 1661.3 | 1648.6 | 1625.5 | 1634.8 |
| 32.5° | 3851.7 | 2381.8 | 1421.5 | 1443.4 | 1542.5 | 1534.5 | 1586.3 | 1603.6 | 1544.8 | 1467.6 | 1471.0 |
| 35°   | 3738.7 | 2157.0 | 1347.7 | 1393.8 | 1467.6 | 1471.0 | 1522.9 | 1463.0 | 1399.6 | 1362.7 | 1365.0 |
| 37.5° | 3653.4 | 1981.8 | 1299.3 | 1351.2 | 1371.9 | 1415.7 | 1388.0 | 1356.9 | 1348.8 | 1323.5 | 1324.6 |
| 40°   | 3602.7 | 1828.4 | 1268.1 | 1317.7 | 1314.3 | 1344.2 | 1255.5 | 1286.6 | 1298.1 | 1290.0 | 1291.2 |
| 42.5° | 3552.0 | 1720.1 | 1235.9 | 1271.6 | 1270.5 | 1211.7 | 1192.1 | 1218.6 | 1248.5 | 1252.0 | 1249.7 |
| 45°   | 3511.6 | 1635.9 | 1202.4 | 1201.3 | 1224.3 | 1132.1 | 1126.3 | 1142.5 | 1185.1 | 1205.9 | 1204.7 |
| 47.5° | 3466.6 | 1565.6 | 1151.7 | 1119.4 | 1126.3 | 1082.5 | 1073.3 | 1080.2 | 1132.1 | 1165.5 | 1174.8 |
| 50°   | 3410.2 | 1495.3 | 1088.3 | 1044.5 | 1015.7 | 1036.4 | 1038.7 | 1039.9 | 1091.8 | 1129.8 | 1137.9 |
| 52.5° | 3365.2 | 1442.2 | 1015.7 | 983.4  | 948.8  | 994.9  | 1012.2 | 1014.5 | 1045.6 | 1076.8 | 1082.5 |
| 55°   | 3391.7 | 1412.3 | 944.2  | 921.1  | 890.0  | 952.3  | 985.7  | 990.3  | 997.2  | 1020.3 | 1023.7 |
| 57.5° | 3471.3 | 1419.2 | 886.5  | 856.6  | 833.5  | 901.5  | 958.0  | 961.5  | 956.9  | 984.5  | 989.2  |
| 60°   | 3495.5 | 1415.7 | 843.9  | 785.1  | 771.3  | 847.4  | 917.7  | 924.6  | 923.4  | 963.8  | 971.9  |
| 62.5° | 3394.0 | 1371.9 | 801.2  | 725.1  | 715.9  | 792.0  | 861.2  | 888.9  | 894.6  | 952.3  | 962.6  |
| 65°   | 3155.4 | 1282.0 | 744.7  | 661.7  | 661.7  | 733.2  | 807.0  | 845.0  | 861.2  | 938.4  | 950.0  |
| 67.5° | 2840.6 | 1175.9 | 687.1  | 607.6  | 605.3  | 676.7  | 749.4  | 788.6  | 813.9  | 918.8  | 925.7  |
| 70°   | 2357.6 | 1033.0 | 615.6  | 548.8  | 548.8  | 613.3  | 679.0  | 726.3  | 763.2  | 881.9  | 881.9  |
| 72.5° | 1615.2 | 858.9  | 529.2  | 481.9  | 483.0  | 543.0  | 609.9  | 662.9  | 706.7  | 808.2  | 810.5  |
| 75°   | 1021.4 | 671.0  | 434.6  | 410.4  | 415.0  | 471.5  | 540.7  | 596.0  | 683.6  | 798.9  | 802.4  |
| 77.5° | 543.0  | 471.5  | 345.9  | 340.1  | 345.9  | 397.7  | 475.0  | 551.1  | 686.0  | 692.9  | 681.3  |
| 80°   | 351.6  | 334.3  | 273.2  | 261.7  | 264.0  | 320.5  | 423.1  | 523.4  | 551.1  | 558.0  | 532.6  |
| 82.5° | 191.4  | 212.1  | 193.7  | 182.2  | 182.2  | 250.2  | 360.8  | 416.2  | 395.4  | 328.6  | 313.6  |
| 85°   | 81.9   | 99.1   | 100.3  | 87.6   | 84.2   | 154.5  | 242.1  | 227.1  | 211.0  | 201.8  | 199.4  |
| 87.5° | 23.1   | 32.3   | 32.3   | 24.2   | 18.4   | 42.7   | 48.4   | 13.8   | 0.0    | 1.2    | 2.3    |
| 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)