

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: P529310

Luminaire Tested: **GLAN-SA4C-722-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529310  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA4C-722-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17431 lumens  
Efficiency: N/A  
Efficacy: 81.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

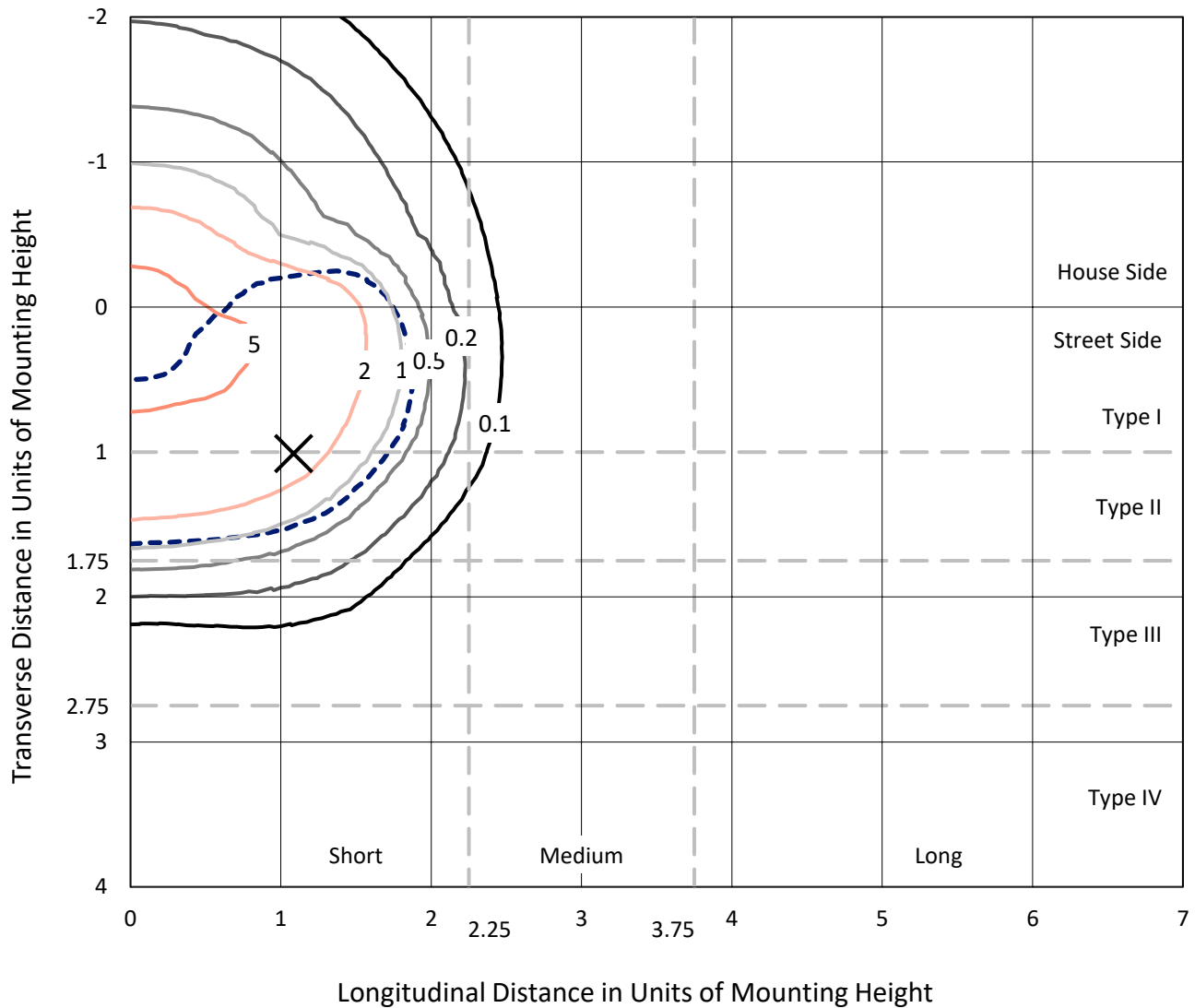
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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## Iso-Footcandle Lines of Horizontal Illumination

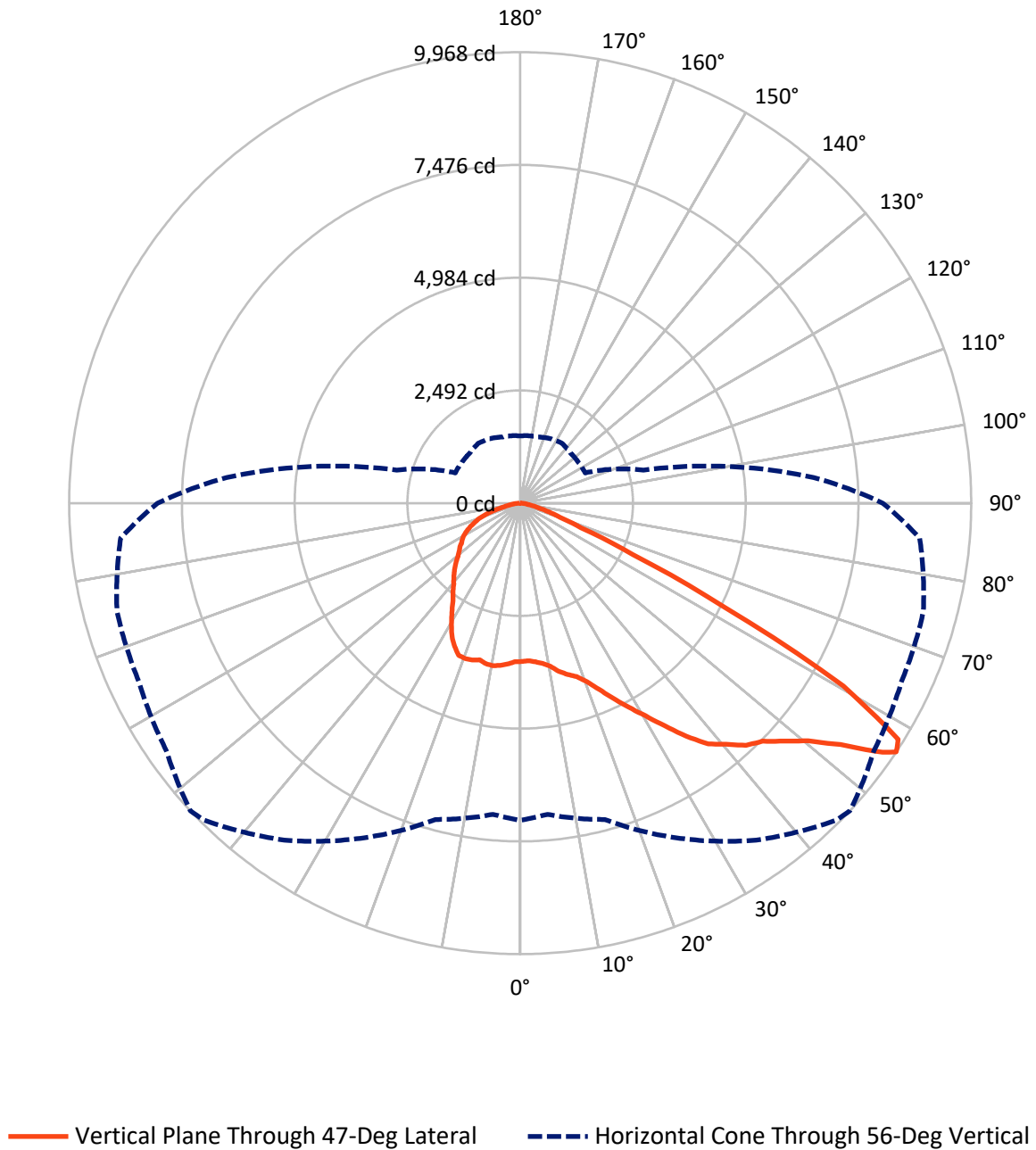
✕ Max cd  
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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    | 5523.7   | 0.0    | 5523.7  |
|                    | % Fixture | 31.7     | 0.0    | 31.7    |
| <b>Street Side</b> | Lumens    | 11907.3  | 0.0    | 11907.3 |
|                    | % Fixture | 68.3     | 0.0    | 68.3    |
| <b>Total</b>       | Lumens    | 17431.0  | 0.0    | 17431.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 341.2   | 2.0       |
| 10°-20°   | 1076.2  | 6.2       |
| 20°-30°   | 1902.4  | 10.9      |
| 30°-40°   | 2857.4  | 16.4      |
| 40°-50°   | 3921.5  | 22.5      |
| 50°-60°   | 4672.0  | 26.8      |
| 60°-70°   | 1999.3  | 11.5      |
| 70°-80°   | 565.8   | 3.2       |
| 80°-90°   | 95.2    | 0.5       |
| 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°    | 17431.0 | 100.0     |
| 0°-180°   | 17431.0 | 100.0     |

**Coefficient of Utilization**



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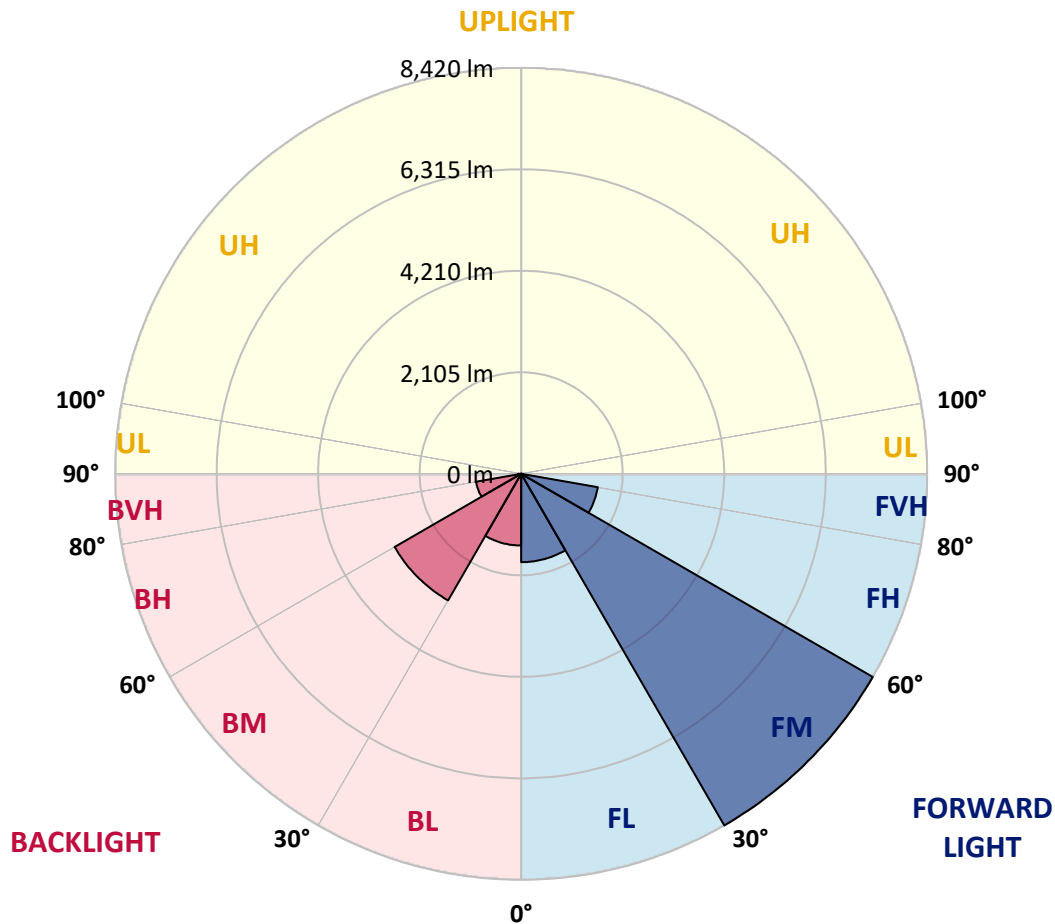
CATALOG NUMBER: GLAN-SA4C-722-U-T3-GRSWH

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1832.6 | 10.5      |                         |      |         |
| FM   | (30°-60°)   | 8419.6 | 48.3      |                         |      |         |
| FH   | (60°-80°)   | 1614.7 | 9.3       |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 40.4   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1487.2 | 8.5       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3031.3 | 17.4      | B3/5000                 |      |         |
| BH   | (60°-80°)   | 950.4  | 5.5       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 54.8   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 47°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 3501.4 | 3501.4 | 3501.4 | 3501.4 | 3501.4 | 3501.4 | 3501.4 | 3501.4 | 3501.4 | 3501.4 | 3501.4 |
| 2.5°  | 3488.0 | 3481.4 | 3476.9 | 3512.5 | 3499.1 | 3501.4 | 3488.0 | 3501.4 | 3510.3 | 3490.2 | 3519.1 |
| 5°    | 3481.4 | 3501.4 | 3483.6 | 3494.7 | 3523.6 | 3514.7 | 3523.6 | 3550.3 | 3543.6 | 3536.9 | 3528.0 |
| 7.5°  | 3543.6 | 3545.8 | 3559.2 | 3563.6 | 3572.5 | 3563.6 | 3576.9 | 3601.4 | 3594.7 | 3556.9 | 3561.4 |
| 10°   | 3632.5 | 3637.0 | 3639.2 | 3663.6 | 3679.2 | 3681.4 | 3665.9 | 3643.6 | 3641.4 | 3692.5 | 3657.0 |
| 12.5° | 3734.8 | 3723.7 | 3750.3 | 3759.2 | 3777.0 | 3797.0 | 3817.0 | 3770.4 | 3799.3 | 3801.5 | 3759.2 |
| 15°   | 3883.7 | 3894.8 | 3863.7 | 3863.7 | 3870.4 | 3872.6 | 3928.2 | 3906.0 | 3901.5 | 3877.1 | 3894.8 |
| 17.5° | 4106.0 | 4030.5 | 4028.2 | 3997.1 | 3992.7 | 4010.4 | 4030.5 | 4048.2 | 4108.3 | 4059.4 | 3963.8 |
| 20°   | 4268.3 | 4286.1 | 4221.6 | 4183.8 | 4190.5 | 4230.5 | 4210.5 | 4290.6 | 4332.8 | 4252.8 | 4159.4 |
| 22.5° | 4555.1 | 4495.1 | 4510.6 | 4426.2 | 4432.8 | 4475.1 | 4472.8 | 4555.1 | 4579.6 | 4452.8 | 4317.2 |
| 25°   | 4748.5 | 4732.9 | 4746.3 | 4679.6 | 4688.5 | 4721.8 | 4775.2 | 4910.8 | 4870.8 | 4730.7 | 4417.3 |
| 27.5° | 5030.8 | 4999.7 | 4988.6 | 4964.1 | 4955.3 | 5044.2 | 5106.4 | 5250.9 | 5222.0 | 5017.5 | 4595.1 |
| 30°   | 5319.8 | 5299.8 | 5310.9 | 5210.9 | 5246.5 | 5435.4 | 5453.2 | 5651.1 | 5637.7 | 5277.6 | 4793.0 |
| 32.5° | 5519.9 | 5531.0 | 5551.0 | 5495.5 | 5653.3 | 5804.5 | 5864.5 | 6089.0 | 6100.1 | 5724.4 | 5175.3 |
| 35°   | 5842.3 | 5804.5 | 5815.6 | 5880.1 | 5953.4 | 6229.1 | 6326.9 | 6475.8 | 6569.2 | 6193.5 | 5542.2 |
| 37.5° | 6044.6 | 6084.6 | 6037.9 | 6140.2 | 6331.3 | 6662.6 | 6751.5 | 6904.9 | 7002.7 | 6655.9 | 6042.3 |
| 40°   | 6360.2 | 6295.8 | 6329.1 | 6402.5 | 6598.1 | 7029.4 | 7004.9 | 7162.8 | 7193.9 | 7049.4 | 6509.2 |
| 42.5° | 6700.4 | 6669.3 | 6622.6 | 6789.3 | 6953.8 | 7267.3 | 7316.2 | 7242.8 | 7400.6 | 7434.0 | 7176.1 |
| 45°   | 7107.2 | 7145.0 | 7151.7 | 7156.1 | 7300.6 | 7574.0 | 7507.4 | 7442.9 | 7625.2 | 7867.5 | 7589.6 |
| 47.5° | 7485.1 | 7365.1 | 7451.8 | 7571.8 | 7776.4 | 7778.6 | 7856.4 | 7703.0 | 7896.4 | 8112.0 | 7963.1 |
| 50°   | 7611.8 | 7554.0 | 7669.6 | 7896.4 | 8212.1 | 8245.4 | 8254.3 | 8036.5 | 8136.5 | 8307.7 | 8092.0 |
| 52.5° | 7562.9 | 7542.9 | 7838.6 | 8189.8 | 8652.2 | 8821.2 | 8865.7 | 8596.7 | 8652.2 | 8574.4 | 8376.6 |
| 55°   | 7329.5 | 7389.5 | 7687.4 | 8403.3 | 9112.4 | 9634.8 | 9719.3 | 9379.2 | 9025.7 | 9085.7 | 8867.9 |
| 56°   | 7009.4 | 6904.9 | 7238.4 | 8160.9 | 9092.4 | 9899.4 | 9968.3 | 9543.7 | 9303.6 | 9225.8 | 8863.4 |
| 57.5° | 5946.8 | 5811.1 | 6249.1 | 7342.8 | 8587.8 | 9799.4 | 9850.5 | 9612.6 | 9256.9 | 9099.1 | 8216.5 |
| 60°   | 3481.4 | 3548.0 | 4103.8 | 5064.2 | 6624.8 | 8034.2 | 8205.4 | 8378.8 | 8140.9 | 7434.0 | 6115.7 |
| 62.5° | 1680.7 | 1638.4 | 2036.3 | 2903.3 | 4037.1 | 5128.7 | 5077.5 | 5564.4 | 5831.2 | 5282.0 | 3861.5 |
| 65°   | 880.3  | 875.9  | 1111.5 | 1585.1 | 2218.6 | 2694.4 | 2741.1 | 3003.4 | 3370.2 | 2721.1 | 1960.8 |
| 67.5° | 646.9  | 664.7  | 782.5  | 1113.8 | 1427.2 | 1456.1 | 1449.5 | 1580.6 | 1616.2 | 1367.2 | 1204.9 |
| 70°   | 506.9  | 515.8  | 602.5  | 847.0  | 1062.6 | 951.5  | 931.5  | 947.0  | 1051.5 | 1096.0 | 1042.6 |
| 72.5° | 366.8  | 375.7  | 449.1  | 571.3  | 664.7  | 649.1  | 662.5  | 749.2  | 878.1  | 924.8  | 869.2  |
| 75°   | 244.5  | 251.2  | 291.2  | 349.0  | 393.5  | 424.6  | 449.1  | 549.1  | 669.1  | 695.8  | 669.1  |
| 77.5° | 169.0  | 175.6  | 202.3  | 246.8  | 251.2  | 271.2  | 280.1  | 326.8  | 400.2  | 433.5  | 415.7  |
| 80°   | 95.6   | 95.6   | 108.9  | 126.7  | 155.6  | 182.3  | 186.7  | 224.5  | 257.9  | 280.1  | 284.6  |
| 82.5° | 44.5   | 46.7   | 57.8   | 77.8   | 102.3  | 126.7  | 131.2  | 155.6  | 180.1  | 202.3  | 209.0  |
| 85°   | 22.2   | 24.5   | 33.3   | 46.7   | 62.2   | 75.6   | 73.4   | 75.6   | 80.0   | 75.6   | 77.8   |
| 87.5° | 6.7    | 6.7    | 8.9    | 11.1   | 8.9    | 11.1   | 11.1   | 13.3   | 15.6   | 17.8   | 20.0   |
| 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°    | 3501.4 | 3501.4 | 3501.4 | 3501.4 | 3501.4 | 3501.4 | 3501.4 | 3501.4 | 3501.4 | 3501.4 | 3501.4 |
| 2.5°  | 3521.4 | 3528.0 | 3483.6 | 3525.8 | 3510.3 | 3508.0 | 3539.2 | 3534.7 | 3545.8 | 3541.4 | 3514.7 |
| 5°    | 3523.6 | 3508.0 | 3554.7 | 3512.5 | 3532.5 | 3574.7 | 3545.8 | 3612.5 | 3579.2 | 3601.4 | 3552.5 |
| 7.5°  | 3592.5 | 3597.0 | 3588.1 | 3605.8 | 3597.0 | 3617.0 | 3601.4 | 3617.0 | 3590.3 | 3592.5 | 3637.0 |
| 10°   | 3652.5 | 3639.2 | 3654.8 | 3632.5 | 3648.1 | 3641.4 | 3605.8 | 3594.7 | 3603.6 | 3592.5 | 3621.4 |
| 12.5° | 3763.7 | 3739.2 | 3728.1 | 3701.4 | 3683.7 | 3617.0 | 3561.4 | 3530.3 | 3572.5 | 3579.2 | 3565.8 |
| 15°   | 3877.1 | 3879.3 | 3828.2 | 3768.1 | 3657.0 | 3556.9 | 3570.3 | 3581.4 | 3581.4 | 3599.2 | 3565.8 |
| 17.5° | 3948.2 | 3948.2 | 3901.5 | 3781.5 | 3668.1 | 3610.3 | 3597.0 | 3561.4 | 3530.3 | 3525.8 | 3523.6 |
| 20°   | 4072.7 | 4034.9 | 3928.2 | 3779.2 | 3663.6 | 3637.0 | 3536.9 | 3452.5 | 3388.0 | 3365.8 | 3363.5 |
| 22.5° | 4215.0 | 4119.4 | 3970.4 | 3783.7 | 3657.0 | 3619.2 | 3432.4 | 3305.7 | 3190.1 | 3141.2 | 3147.9 |
| 25°   | 4346.1 | 4192.7 | 3994.9 | 3763.7 | 3632.5 | 3450.2 | 3241.3 | 3065.6 | 2945.6 | 2905.6 | 2885.6 |
| 27.5° | 4437.3 | 4270.5 | 3994.9 | 3781.5 | 3541.4 | 3261.3 | 3047.8 | 2823.3 | 2718.8 | 2692.2 | 2696.6 |
| 30°   | 4559.5 | 4368.4 | 4063.8 | 3743.7 | 3359.1 | 3016.7 | 2761.1 | 2614.3 | 2552.1 | 2529.9 | 2545.4 |
| 32.5° | 4846.3 | 4624.0 | 4159.4 | 3652.5 | 3143.4 | 2772.2 | 2565.4 | 2483.2 | 2392.0 | 2347.6 | 2332.0 |
| 35°   | 5157.6 | 4866.3 | 4252.8 | 3499.1 | 2901.1 | 2549.9 | 2420.9 | 2345.4 | 2236.4 | 2187.5 | 2196.4 |
| 37.5° | 5597.7 | 5177.6 | 4259.4 | 3245.7 | 2638.8 | 2425.4 | 2307.6 | 2189.7 | 2100.8 | 2025.2 | 2003.0 |
| 40°   | 6191.3 | 5602.2 | 4243.9 | 2978.9 | 2427.6 | 2278.7 | 2192.0 | 2045.2 | 1945.2 | 1891.8 | 1903.0 |
| 42.5° | 6713.7 | 6100.1 | 4179.4 | 2676.6 | 2236.4 | 2178.6 | 2080.8 | 1936.3 | 1838.5 | 1782.9 | 1778.5 |
| 45°   | 7153.9 | 6467.0 | 4057.1 | 2418.7 | 2076.4 | 2067.5 | 1954.1 | 1842.9 | 1765.1 | 1714.0 | 1736.2 |
| 47.5° | 7560.7 | 6762.6 | 3872.6 | 2160.8 | 1929.6 | 1947.4 | 1838.5 | 1769.6 | 1720.7 | 1674.0 | 1671.8 |
| 50°   | 7707.4 | 6758.2 | 3710.3 | 1947.4 | 1811.8 | 1802.9 | 1798.5 | 1725.1 | 1674.0 | 1634.0 | 1651.8 |
| 52.5° | 7952.0 | 6833.8 | 3534.7 | 1800.7 | 1705.1 | 1707.3 | 1722.9 | 1669.5 | 1611.7 | 1587.3 | 1609.5 |
| 55°   | 8303.2 | 6844.9 | 3147.9 | 1629.5 | 1616.2 | 1631.7 | 1631.7 | 1596.2 | 1547.3 | 1527.3 | 1516.1 |
| 56°   | 8016.4 | 6513.6 | 2823.3 | 1585.1 | 1571.7 | 1571.7 | 1614.0 | 1573.9 | 1513.9 | 1498.4 | 1485.0 |
| 57.5° | 7394.0 | 5706.7 | 2363.1 | 1531.7 | 1511.7 | 1542.8 | 1565.1 | 1522.8 | 1467.2 | 1445.0 | 1458.3 |
| 60°   | 5099.8 | 3861.5 | 1776.2 | 1416.1 | 1416.1 | 1467.2 | 1485.0 | 1422.8 | 1398.3 | 1396.1 | 1378.3 |
| 62.5° | 2976.7 | 2249.8 | 1389.4 | 1311.6 | 1316.1 | 1358.3 | 1371.6 | 1336.1 | 1305.0 | 1342.7 | 1360.5 |
| 65°   | 1578.4 | 1342.7 | 1191.6 | 1200.5 | 1202.7 | 1236.0 | 1293.8 | 1291.6 | 1289.4 | 1300.5 | 1302.7 |
| 67.5° | 1142.7 | 1116.0 | 1082.6 | 1073.7 | 1078.2 | 1102.6 | 1160.5 | 1204.9 | 1202.7 | 1176.0 | 1156.0 |
| 70°   | 1018.2 | 980.4  | 960.4  | 962.6  | 944.8  | 973.7  | 1020.4 | 1049.3 | 998.2  | 967.0  | 953.7  |
| 72.5° | 847.0  | 835.9  | 822.5  | 824.8  | 789.2  | 782.5  | 729.2  | 729.2  | 715.8  | 706.9  | 722.5  |
| 75°   | 646.9  | 642.5  | 649.1  | 638.0  | 600.2  | 560.2  | 529.1  | 500.2  | 455.7  | 437.9  | 429.1  |
| 77.5° | 409.0  | 422.4  | 437.9  | 413.5  | 397.9  | 369.0  | 337.9  | 309.0  | 273.4  | 253.4  | 253.4  |
| 80°   | 277.9  | 289.0  | 300.1  | 295.7  | 277.9  | 251.2  | 226.8  | 195.6  | 171.2  | 155.6  | 153.4  |
| 82.5° | 211.2  | 220.1  | 235.6  | 217.9  | 200.1  | 177.8  | 157.8  | 135.6  | 113.4  | 95.6   | 95.6   |
| 85°   | 75.6   | 86.7   | 95.6   | 104.5  | 111.2  | 113.4  | 97.8   | 80.0   | 64.5   | 51.1   | 48.9   |
| 87.5° | 20.0   | 22.2   | 24.5   | 22.2   | 22.2   | 22.2   | 24.5   | 22.2   | 20.0   | 15.6   | 15.6   |
| 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)