

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: P452560

Luminaire Tested: **GLAN-SA3C-730-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452560  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3C-730-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14033 lumens  
Efficiency: N/A  
Efficacy: 87.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 160  
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

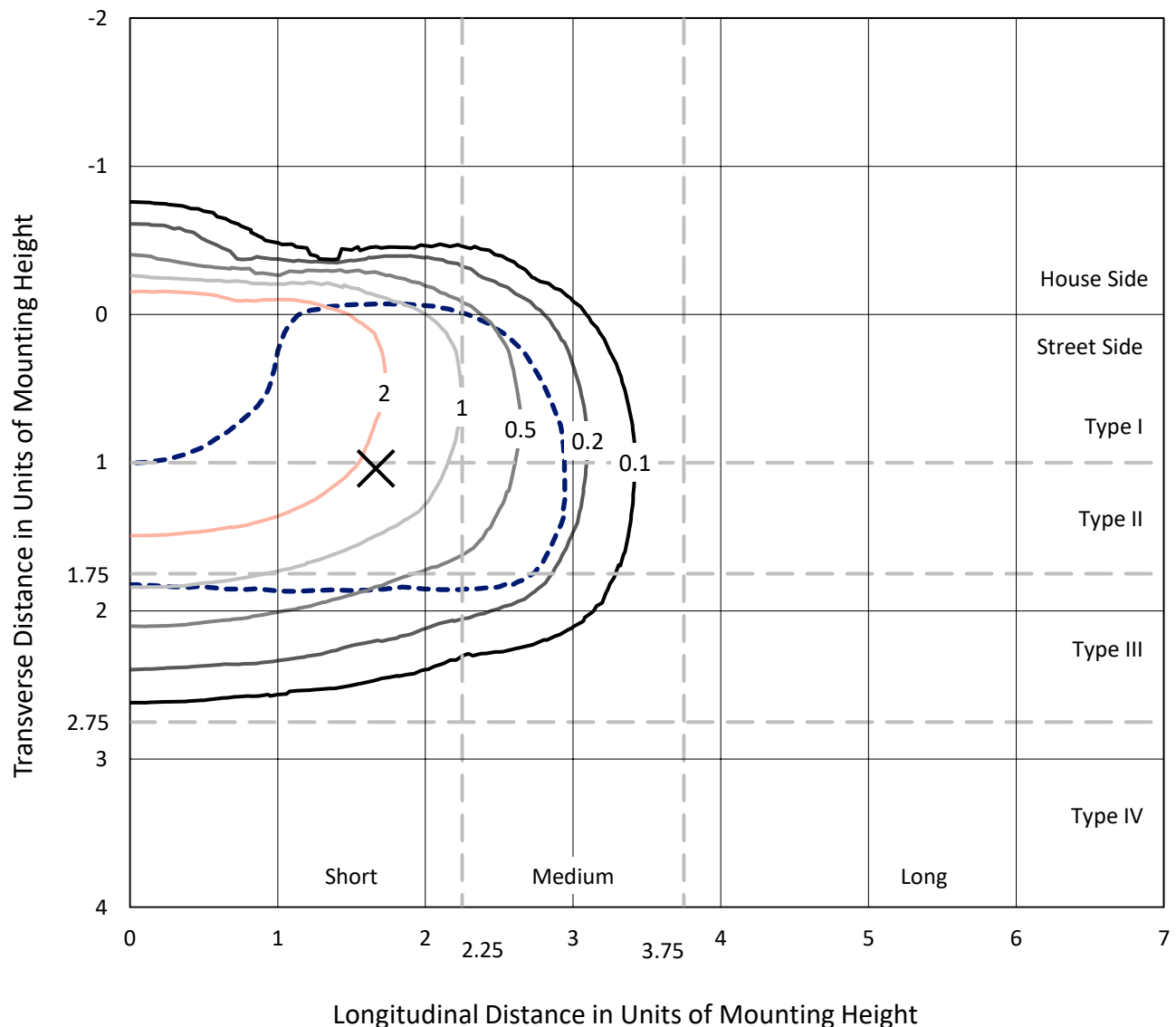


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

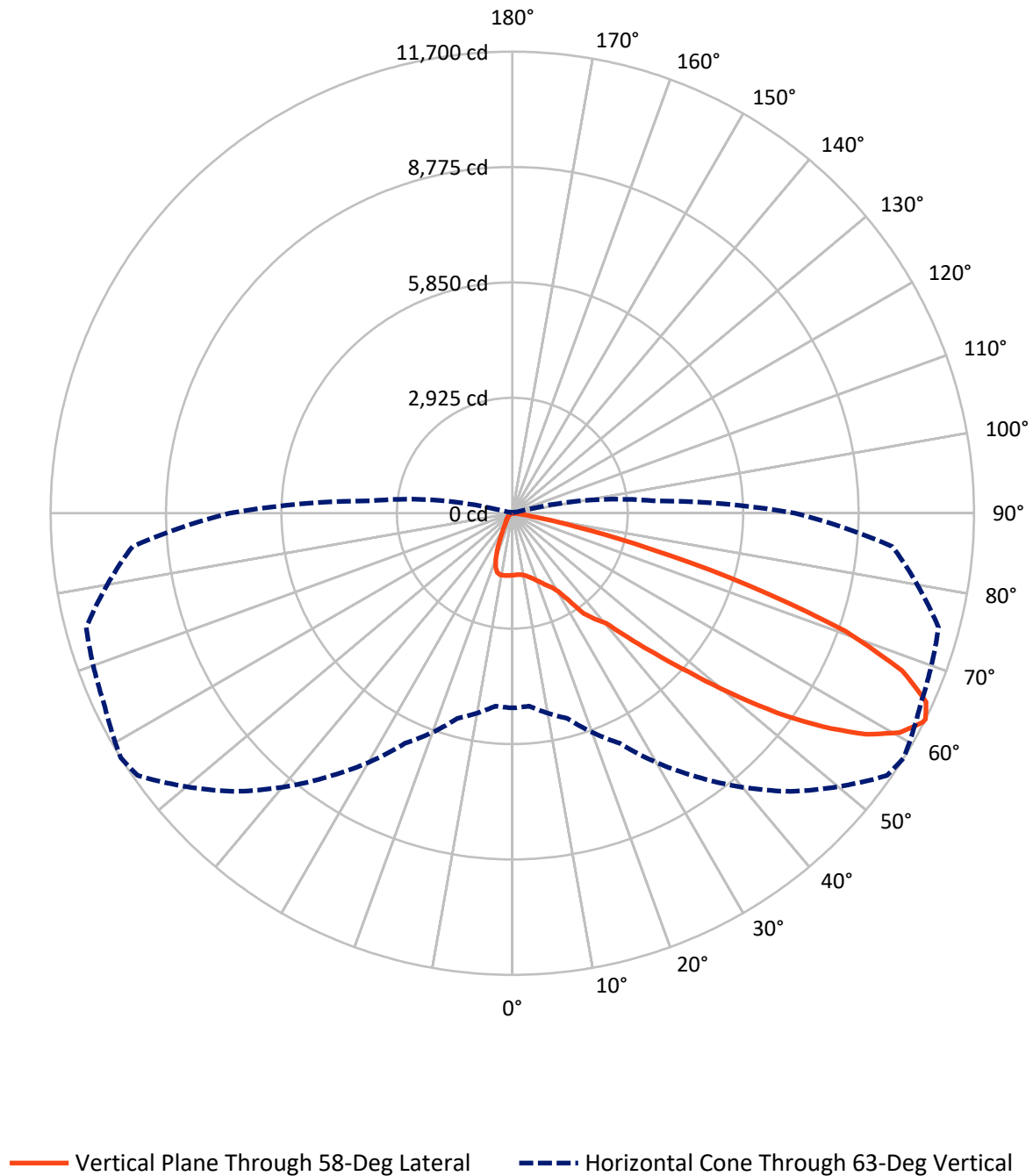


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
Type III - Short - N/A

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## Luminous Intensity Polar Plot



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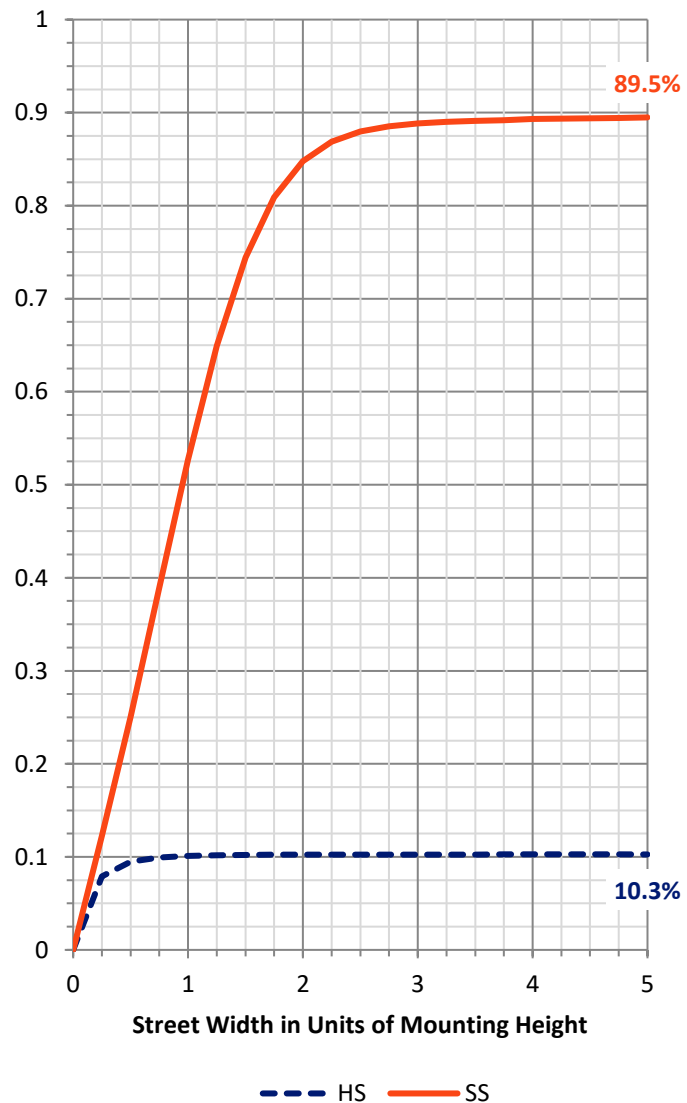
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1453.0   | 0.0    | 1453.0  |
|                    | % Fixture | 10.4     | 0.0    | 10.4    |
| <b>Street Side</b> | Lumens    | 12580.0  | 0.0    | 12580.0 |
|                    | % Fixture | 89.6     | 0.0    | 89.6    |
| <b>Total</b>       | Lumens    | 14033.0  | 0.0    | 14033.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 147.1   | 1.0       |
| 10°-20°   | 400.6   | 2.9       |
| 20°-30°   | 695.2   | 5.0       |
| 30°-40°   | 1277.5  | 9.1       |
| 40°-50°   | 2404.9  | 17.1      |
| 50°-60°   | 4113.4  | 29.3      |
| 60°-70°   | 3938.6  | 28.1      |
| 70°-80°   | 1004.4  | 7.2       |
| 80°-90°   | 51.4    | 0.4       |
| 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°    | 14033.0 | 100.0     |
| 0°-180°   | 14033.0 | 100.0     |

**Coefficient of Utilization**



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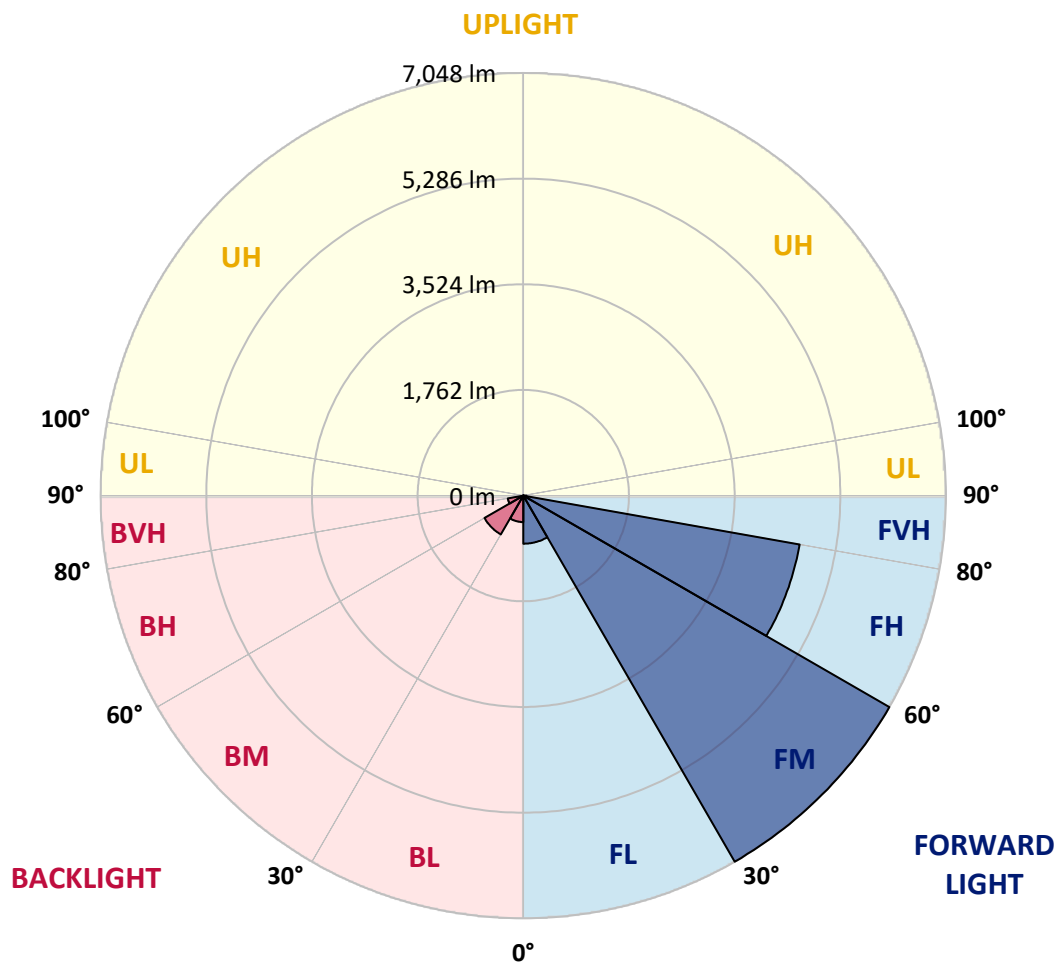
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 802.2  | 5.7       |                         |      |         |
| FM   | (30°-60°)   | 7048.5 | 50.2      |                         |      |         |
| FH   | (60°-80°)   | 4679.9 | 33.3      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 49.4   | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 440.7  | 3.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 747.4  | 5.3       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 263.0  | 1.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 2.0    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°     | 55°     | 58°     | 65°     | 75°     | 85°    |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|
| 0°    | 1571.0 | 1571.0 | 1571.0 | 1571.0 | 1571.0 | 1571.0  | 1571.0  | 1571.0  | 1571.0  | 1571.0  | 1571.0 |
| 2.5°  | 1532.0 | 1537.2 | 1542.5 | 1544.6 | 1552.0 | 1559.4  | 1564.7  | 1563.7  | 1572.1  | 1576.3  | 1576.3 |
| 5°    | 1470.7 | 1470.7 | 1484.4 | 1497.1 | 1518.2 | 1539.4  | 1559.4  | 1563.7  | 1579.5  | 1594.3  | 1599.6 |
| 7.5°  | 1418.9 | 1422.1 | 1432.6 | 1455.9 | 1484.4 | 1521.4  | 1561.5  | 1571.0  | 1598.5  | 1631.3  | 1645.0 |
| 10°   | 1394.6 | 1396.7 | 1410.5 | 1434.8 | 1470.7 | 1521.4  | 1577.4  | 1595.3  | 1637.6  | 1689.4  | 1708.4 |
| 12.5° | 1389.3 | 1392.5 | 1406.2 | 1433.7 | 1474.9 | 1536.2  | 1612.3  | 1631.3  | 1692.5  | 1759.1  | 1787.6 |
| 15°   | 1398.8 | 1400.9 | 1414.7 | 1444.3 | 1489.7 | 1562.6  | 1658.7  | 1685.2  | 1758.1  | 1835.2  | 1872.2 |
| 17.5° | 1432.6 | 1430.5 | 1440.0 | 1464.3 | 1515.1 | 1595.3  | 1714.7  | 1746.4  | 1832.0  | 1937.7  | 1962.0 |
| 20°   | 1576.3 | 1562.6 | 1554.1 | 1533.0 | 1553.1 | 1641.8  | 1782.4  | 1828.8  | 1934.5  | 2042.3  | 2059.2 |
| 22.5° | 1885.9 | 1855.3 | 1795.0 | 1712.6 | 1649.2 | 1705.2  | 1863.7  | 1917.6  | 2053.9  | 2159.5  | 2159.5 |
| 25°   | 2280.0 | 2240.9 | 2180.7 | 2001.1 | 1845.7 | 1809.8  | 1955.6  | 2023.2  | 2183.8  | 2290.5  | 2255.7 |
| 27.5° | 2773.4 | 2742.7 | 2625.5 | 2416.3 | 2178.5 | 1992.6  | 2062.3  | 2124.7  | 2299.0  | 2427.9  | 2355.0 |
| 30°   | 3174.8 | 3160.1 | 3063.9 | 2876.9 | 2614.9 | 2343.4  | 2261.0  | 2302.2  | 2452.2  | 2601.2  | 2526.1 |
| 32.5° | 3514.0 | 3514.0 | 3415.7 | 3241.4 | 2996.3 | 2755.4  | 2598.0  | 2627.6  | 2771.3  | 2943.5  | 2804.0 |
| 35°   | 3886.9 | 3874.3 | 3795.0 | 3629.2 | 3354.5 | 3142.1  | 3077.6  | 3117.8  | 3247.7  | 3375.6  | 3032.2 |
| 37.5° | 4278.9 | 4274.7 | 4192.3 | 4031.7 | 3807.7 | 3540.4  | 3389.3  | 3399.9  | 3466.4  | 3544.6  | 3299.5 |
| 40°   | 4704.7 | 4711.0 | 4603.3 | 4504.0 | 4292.7 | 4019.0  | 3729.5  | 3663.0  | 3725.3  | 3946.1  | 3792.9 |
| 42.5° | 5207.6 | 5192.8 | 5146.3 | 5011.1 | 4841.0 | 4677.2  | 4329.6  | 4305.3  | 4360.3  | 4596.9  | 4431.1 |
| 45°   | 5791.9 | 5813.0 | 5732.7 | 5657.7 | 5543.6 | 5407.3  | 5116.7  | 5074.5  | 5134.7  | 5502.4  | 5266.8 |
| 47.5° | 6377.2 | 6357.1 | 6408.9 | 6395.1 | 6456.4 | 6355.0  | 6098.2  | 6011.6  | 6156.4  | 6505.0  | 6158.5 |
| 50°   | 6823.0 | 6845.2 | 6953.0 | 7110.4 | 7373.5 | 7430.5  | 7184.4  | 7154.8  | 7219.2  | 7443.2  | 6956.1 |
| 52.5° | 7112.5 | 7186.5 | 7355.5 | 7760.2 | 8234.5 | 8603.3  | 8416.3  | 8400.4  | 8374.0  | 8434.2  | 7719.0 |
| 55°   | 7301.6 | 7376.6 | 7597.5 | 8193.3 | 9010.0 | 9609.1  | 9618.6  | 9551.0  | 9376.6  | 9333.3  | 8432.1 |
| 57.5° | 7185.4 | 7200.2 | 7515.0 | 8311.7 | 9440.0 | 10326.4 | 10637.1 | 10569.4 | 10247.2 | 10083.4 | 9061.8 |
| 60°   | 6458.5 | 6489.2 | 6927.6 | 7863.7 | 9253.0 | 10561.0 | 11312.2 | 11281.5 | 10928.7 | 10743.8 | 9552.0 |
| 62.5° | 5170.6 | 5259.4 | 5710.5 | 6754.3 | 8383.5 | 10165.9 | 11585.8 | 11672.5 | 11397.8 | 11143.1 | 9706.3 |
| 63°   | 4934.0 | 4905.4 | 5381.9 | 6431.1 | 8153.2 | 9970.4  | 11590.0 | 11699.9 | 11418.9 | 11181.2 | 9664.0 |
| 65°   | 3652.4 | 3738.0 | 4047.5 | 5071.3 | 6785.0 | 9060.7  | 11329.1 | 11523.5 | 11340.7 | 11013.2 | 9196.0 |
| 67.5° | 2050.7 | 2046.5 | 2388.8 | 3318.5 | 4749.1 | 7107.2  | 10244.0 | 10655.0 | 10617.0 | 9882.7  | 7622.8 |
| 70°   | 1003.7 | 1019.5 | 1160.1 | 1720.0 | 2754.4 | 4903.3  | 8512.4  | 8956.1  | 8969.9  | 7762.3  | 5271.0 |
| 72.5° | 454.3  | 461.7  | 562.1  | 837.8  | 1415.7 | 2610.7  | 5865.8  | 6289.5  | 6211.3  | 4946.6  | 2910.7 |
| 75°   | 239.8  | 255.7  | 309.6  | 421.6  | 682.5  | 1076.6  | 3190.7  | 3600.6  | 3436.9  | 2259.9  | 1071.3 |
| 77.5° | 177.5  | 182.8  | 210.2  | 268.4  | 365.6  | 419.4   | 1376.6  | 1637.6  | 1534.1  | 817.7   | 355.0  |
| 80°   | 130.0  | 134.2  | 156.4  | 190.2  | 230.3  | 213.4   | 518.8   | 594.8   | 533.5   | 277.9   | 108.8  |
| 82.5° | 79.2   | 80.3   | 114.1  | 141.6  | 144.7  | 119.4   | 171.2   | 183.8   | 192.3   | 156.4   | 59.2   |
| 85°   | 28.5   | 35.9   | 77.1   | 102.5  | 85.6   | 60.2    | 71.8    | 79.2    | 86.6    | 99.3    | 34.9   |
| 87.5° | 3.2    | 4.2    | 37.0   | 49.7   | 24.3   | 22.2    | 26.4    | 29.6    | 31.7    | 37.0    | 16.9   |
| 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°    | 1571.0 | 1571.0 | 1571.0 | 1571.0 | 1571.0 | 1571.0 | 1571.0 | 1571.0 | 1571.0 | 1571.0 | 1571.0 |
| 2.5°  | 1580.6 | 1584.8 | 1581.6 | 1576.3 | 1575.3 | 1572.1 | 1565.8 | 1565.8 | 1565.8 | 1567.9 | 1565.8 |
| 5°    | 1603.8 | 1607.0 | 1599.6 | 1589.0 | 1577.4 | 1562.6 | 1546.7 | 1537.2 | 1536.2 | 1534.1 | 1528.8 |
| 7.5°  | 1648.2 | 1652.4 | 1635.5 | 1610.1 | 1578.4 | 1542.5 | 1508.7 | 1477.0 | 1462.2 | 1450.6 | 1450.6 |
| 10°   | 1712.6 | 1716.8 | 1683.0 | 1637.6 | 1574.2 | 1501.3 | 1421.0 | 1348.1 | 1291.1 | 1264.7 | 1258.3 |
| 12.5° | 1789.7 | 1791.9 | 1735.9 | 1656.6 | 1552.0 | 1411.5 | 1240.4 | 1080.8 | 969.9  | 919.2  | 913.9  |
| 15°   | 1874.3 | 1859.5 | 1785.5 | 1664.0 | 1488.6 | 1226.6 | 930.8  | 735.3  | 620.2  | 586.4  | 599.0  |
| 17.5° | 1959.8 | 1932.4 | 1823.6 | 1652.4 | 1346.0 | 930.8  | 625.5  | 501.8  | 465.9  | 456.4  | 456.4  |
| 20°   | 2040.1 | 2002.1 | 1851.0 | 1601.7 | 1098.8 | 641.3  | 463.8  | 434.2  | 427.9  | 421.6  | 422.6  |
| 22.5° | 2120.4 | 2062.3 | 1875.3 | 1488.6 | 818.8  | 458.5  | 415.2  | 405.7  | 397.3  | 388.8  | 387.7  |
| 25°   | 2198.6 | 2118.3 | 1884.8 | 1279.4 | 557.8  | 394.1  | 379.3  | 366.6  | 349.7  | 340.2  | 338.1  |
| 27.5° | 2280.0 | 2185.9 | 1878.5 | 1015.3 | 406.8  | 352.9  | 338.1  | 320.1  | 300.1  | 283.1  | 283.1  |
| 30°   | 2436.3 | 2314.8 | 1856.3 | 730.1  | 342.3  | 310.6  | 291.6  | 263.1  | 240.9  | 224.0  | 222.9  |
| 32.5° | 2649.8 | 2482.8 | 1780.2 | 513.5  | 304.3  | 273.6  | 245.1  | 213.4  | 190.2  | 177.5  | 177.5  |
| 35°   | 2839.9 | 2651.9 | 1637.6 | 378.2  | 273.6  | 237.7  | 202.9  | 172.2  | 154.3  | 145.8  | 142.6  |
| 37.5° | 3129.4 | 2899.1 | 1441.1 | 307.4  | 244.1  | 206.0  | 170.1  | 141.6  | 126.8  | 120.4  | 120.4  |
| 40°   | 3563.6 | 3201.3 | 1200.2 | 269.4  | 215.5  | 175.4  | 141.6  | 119.4  | 107.8  | 100.4  | 100.4  |
| 42.5° | 4102.5 | 3571.0 | 956.2  | 241.9  | 189.1  | 151.1  | 118.3  | 101.4  | 90.9   | 85.6   | 84.5   |
| 45°   | 4780.8 | 3960.9 | 736.4  | 216.6  | 168.0  | 128.9  | 100.4  | 85.6   | 75.0   | 71.8   | 72.9   |
| 47.5° | 5488.6 | 4304.3 | 570.5  | 194.4  | 145.8  | 108.8  | 85.6   | 74.0   | 66.6   | 62.3   | 62.3   |
| 50°   | 6093.0 | 4540.9 | 433.2  | 169.0  | 128.9  | 91.9   | 75.0   | 66.6   | 60.2   | 58.1   | 57.1   |
| 52.5° | 6598.0 | 4609.6 | 331.7  | 146.9  | 113.0  | 79.2   | 66.6   | 60.2   | 54.9   | 51.8   | 51.8   |
| 55°   | 7028.0 | 4549.4 | 259.9  | 123.6  | 95.1   | 68.7   | 59.2   | 53.9   | 47.5   | 44.4   | 43.3   |
| 57.5° | 7279.4 | 4356.0 | 198.6  | 102.5  | 77.1   | 57.1   | 51.8   | 45.4   | 38.0   | 32.8   | 32.8   |
| 60°   | 7406.2 | 4075.0 | 152.1  | 84.5   | 59.2   | 45.4   | 42.3   | 33.8   | 26.4   | 22.2   | 21.1   |
| 62.5° | 7254.1 | 3702.1 | 115.2  | 66.6   | 44.4   | 33.8   | 28.5   | 24.3   | 16.9   | 12.7   | 12.7   |
| 63°   | 7160.1 | 3594.3 | 110.9  | 63.4   | 41.2   | 31.7   | 26.4   | 22.2   | 14.8   | 11.6   | 10.6   |
| 65°   | 6527.2 | 3124.1 | 90.9   | 50.7   | 32.8   | 22.2   | 18.0   | 15.8   | 10.6   | 5.3    | 4.2    |
| 67.5° | 5183.3 | 2389.9 | 71.8   | 38.0   | 23.2   | 15.8   | 10.6   | 9.5    | 3.2    | 0.0    | 0.0    |
| 70°   | 3504.5 | 1543.6 | 56.0   | 27.5   | 15.8   | 9.5    | 5.3    | 4.2    | 1.1    | 0.0    | 0.0    |
| 72.5° | 1827.8 | 791.3  | 43.3   | 20.1   | 9.5    | 6.3    | 3.2    | 1.1    | 0.0    | 0.0    | 0.0    |
| 75°   | 646.6  | 269.4  | 31.7   | 12.7   | 6.3    | 3.2    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 195.5  | 100.4  | 20.1   | 9.5    | 4.2    | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 68.7   | 37.0   | 11.6   | 6.3    | 3.2    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 33.8   | 18.0   | 7.4    | 5.3    | 3.2    | 1.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 19.0   | 11.6   | 6.3    | 5.3    | 3.2    | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 13.7   | 8.5    | 6.3    | 5.3    | 4.2    | 2.1    | 1.1    | 0.0    | 0.0    | 0.0    | 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)