

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: P452098

Luminaire Tested: **GLAN-SA3A-730-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452098  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA3A-730-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9734 lumens  
Efficiency: N/A  
Efficacy: 104.7 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): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



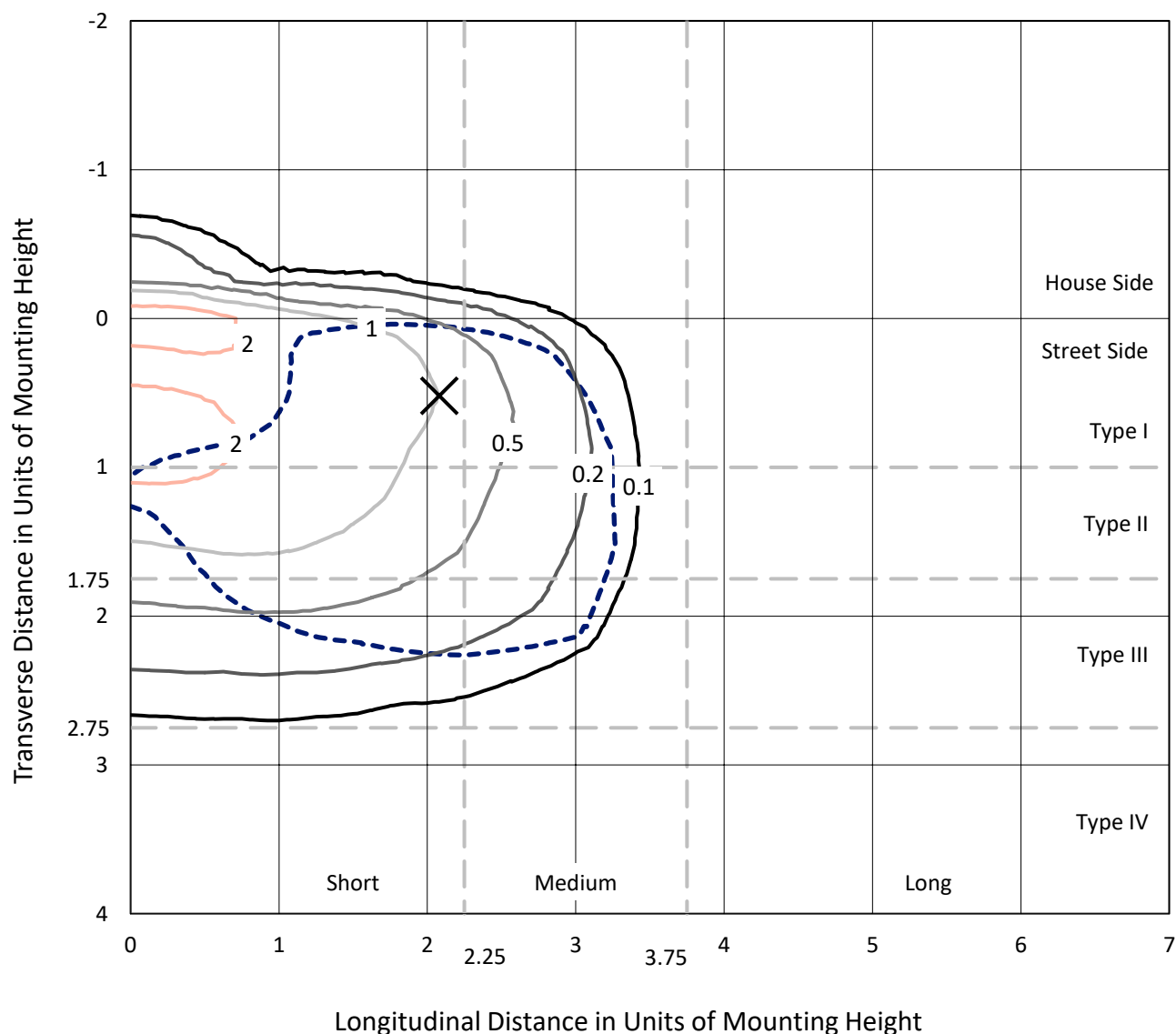
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

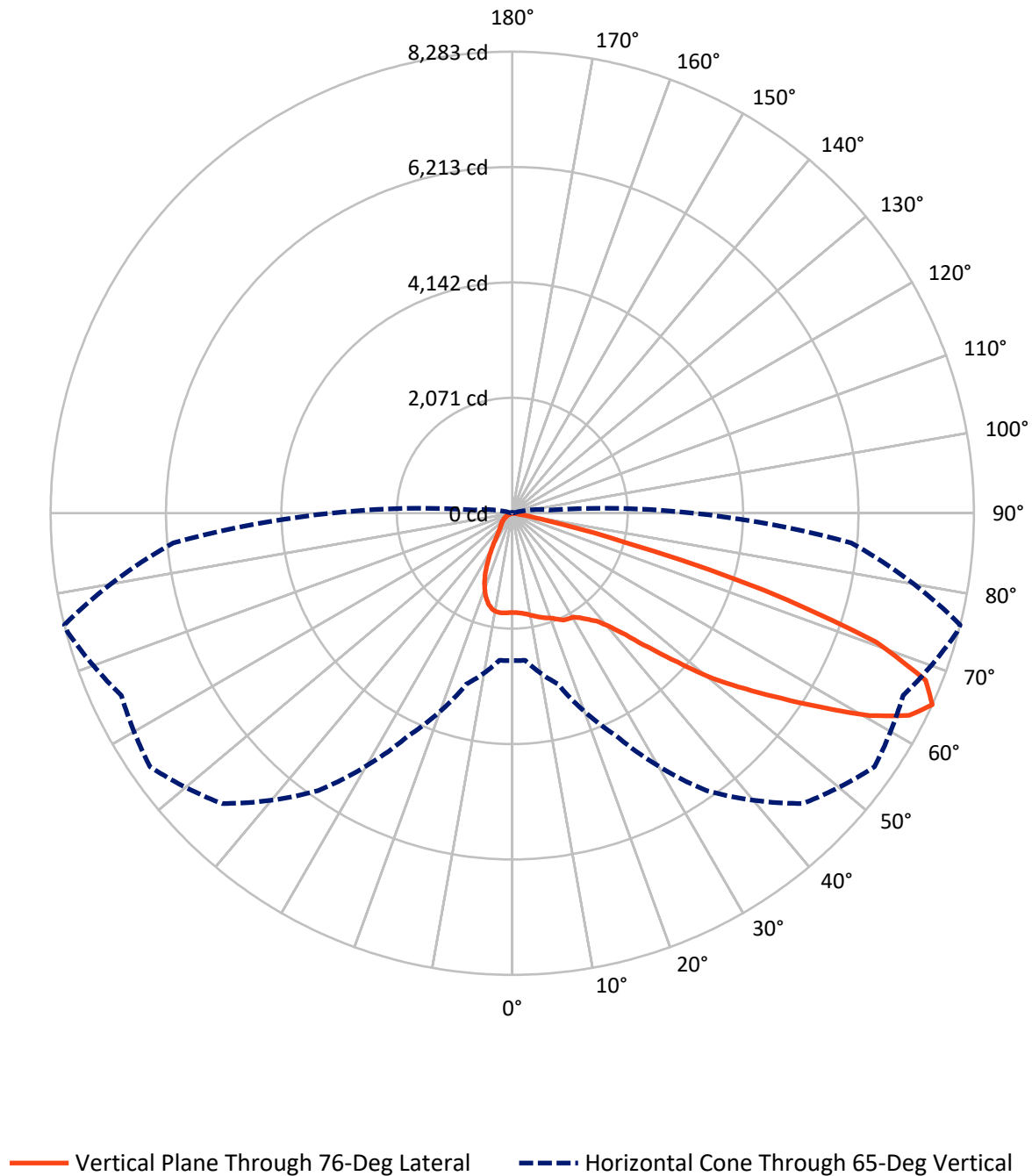


Based on 25 foot mounting height. Maximum calculated value = 3 fc

Type III - Short - N/A

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## Luminous Intensity Polar Plot



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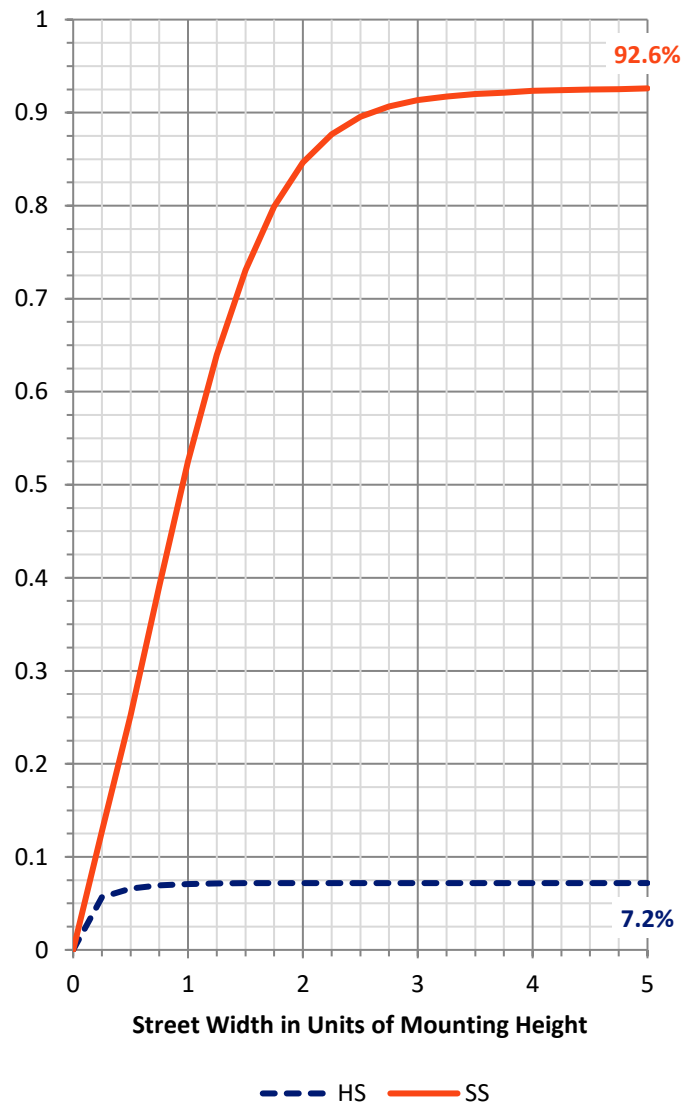
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 703.0    | 0.0    | 703.0  |
|                    | % Fixture | 7.2      | 0.0    | 7.2    |
| <b>Street Side</b> | Lumens    | 9031.0   | 0.0    | 9031.0 |
|                    | % Fixture | 92.8     | 0.0    | 92.8   |
| <b>Total</b>       | Lumens    | 9734.0   | 0.0    | 9734.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 146.7  | 1.5       |
| 10°-20°   | 326.6  | 3.4       |
| 20°-30°   | 526.3  | 5.4       |
| 30°-40°   | 915.1  | 9.4       |
| 40°-50°   | 1512.1 | 15.5      |
| 50°-60°   | 2335.9 | 24.0      |
| 60°-70°   | 2852.5 | 29.3      |
| 70°-80°   | 1082.6 | 11.1      |
| 80°-90°   | 36.1   | 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°    | 9734.0 | 100.0     |
| 0°-180°   | 9734.0 | 100.0     |

**Coefficient of Utilization**



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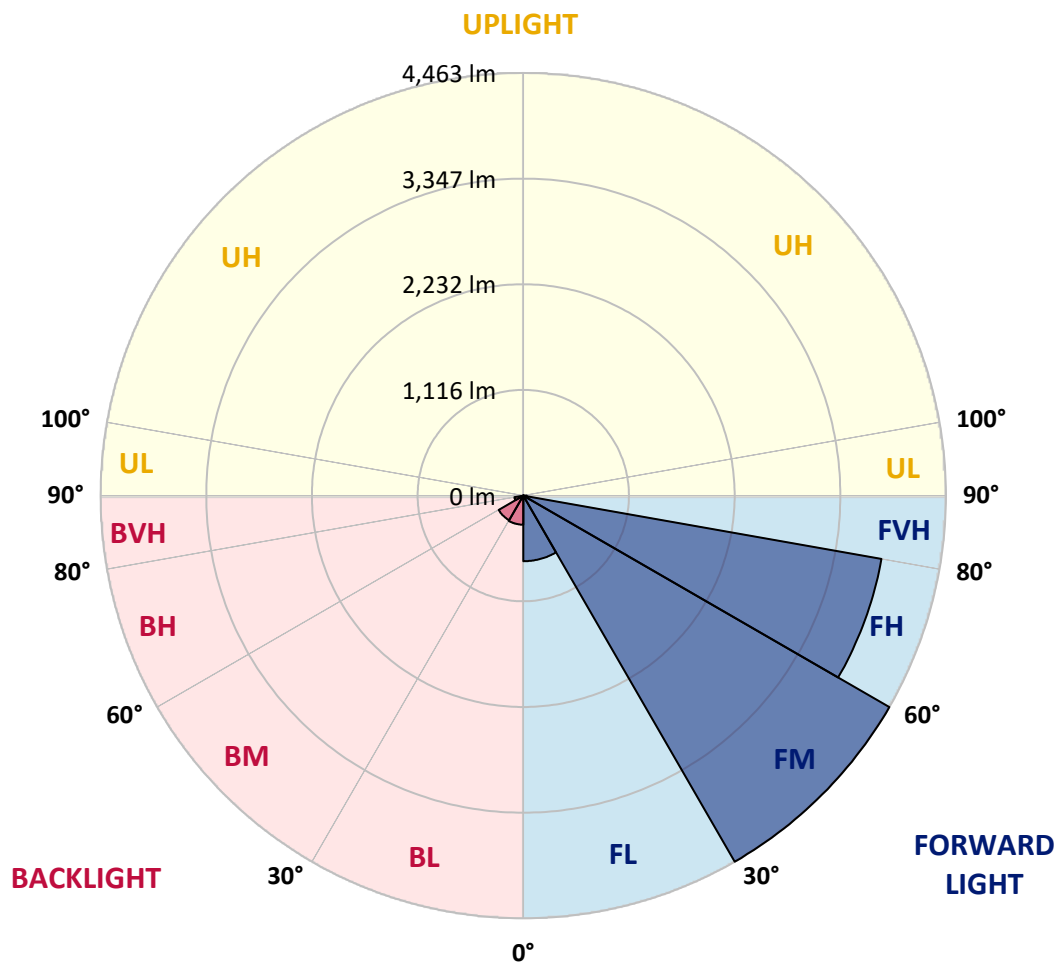
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 692.5  | 7.1       |                         |      |         |
| FM   | (30°-60°)   | 4463.2 | 45.9      |                         |      |         |
| FH   | (60°-80°)   | 3839.7 | 39.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 35.6   | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 307.1  | 3.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 300.0  | 3.1       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 95.4   | 1.0       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.5    | 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°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1780.7 | 1780.7 | 1780.7 | 1780.7 | 1780.7 | 1780.7 | 1780.7 | 1780.7 | 1780.7 | 1780.7 | 1780.7 |
| 2.5°  | 1701.6 | 1702.3 | 1706.4 | 1716.7 | 1732.6 | 1745.6 | 1756.6 | 1774.5 | 1786.8 | 1788.2 | 1792.3 |
| 5°    | 1584.1 | 1575.9 | 1584.1 | 1610.9 | 1635.0 | 1671.4 | 1716.1 | 1760.7 | 1800.6 | 1803.3 | 1822.6 |
| 7.5°  | 1452.2 | 1459.0 | 1472.1 | 1499.6 | 1544.9 | 1600.6 | 1665.2 | 1744.9 | 1820.5 | 1827.4 | 1865.2 |
| 10°   | 1318.1 | 1333.3 | 1354.6 | 1396.5 | 1459.7 | 1531.9 | 1619.8 | 1733.9 | 1852.1 | 1861.8 | 1927.0 |
| 12.5° | 1194.4 | 1201.3 | 1227.4 | 1283.8 | 1362.1 | 1463.8 | 1585.5 | 1727.7 | 1887.2 | 1898.9 | 1993.0 |
| 15°   | 1099.6 | 1108.5 | 1131.2 | 1182.1 | 1269.3 | 1399.9 | 1557.3 | 1725.7 | 1921.5 | 1938.0 | 2059.0 |
| 17.5° | 1081.7 | 1087.2 | 1096.8 | 1131.2 | 1207.5 | 1349.1 | 1531.9 | 1725.0 | 1954.5 | 1974.5 | 2120.2 |
| 20°   | 1155.3 | 1150.5 | 1140.8 | 1137.4 | 1179.3 | 1309.9 | 1513.3 | 1730.5 | 1986.1 | 2008.8 | 2184.8 |
| 22.5° | 1339.4 | 1345.6 | 1289.3 | 1222.6 | 1208.9 | 1303.7 | 1510.6 | 1756.6 | 2036.3 | 2063.1 | 2256.9 |
| 25°   | 1730.5 | 1683.1 | 1595.1 | 1435.7 | 1315.4 | 1341.5 | 1541.5 | 1818.5 | 2094.7 | 2124.3 | 2322.2 |
| 27.5° | 2162.8 | 2148.3 | 2011.6 | 1749.0 | 1525.0 | 1421.2 | 1596.5 | 1865.9 | 2114.0 | 2144.2 | 2359.3 |
| 30°   | 2587.5 | 2604.7 | 2448.0 | 2158.0 | 1829.5 | 1569.0 | 1648.0 | 1883.7 | 2131.2 | 2162.8 | 2406.7 |
| 32.5° | 2981.3 | 3001.9 | 2864.4 | 2577.2 | 2188.2 | 1824.6 | 1736.7 | 1953.2 | 2203.3 | 2235.6 | 2485.8 |
| 35°   | 3291.2 | 3294.0 | 3190.2 | 2961.4 | 2579.9 | 2135.3 | 1928.4 | 2074.8 | 2300.9 | 2338.7 | 2569.6 |
| 37.5° | 3575.8 | 3571.6 | 3450.0 | 3252.7 | 2906.4 | 2443.9 | 2169.6 | 2215.0 | 2412.2 | 2451.4 | 2690.6 |
| 40°   | 3786.7 | 3789.5 | 3750.3 | 3564.8 | 3210.8 | 2729.1 | 2360.7 | 2346.3 | 2599.2 | 2660.3 | 2866.5 |
| 42.5° | 3927.6 | 3953.0 | 3972.3 | 3878.1 | 3593.6 | 3080.2 | 2654.2 | 2627.3 | 2923.6 | 2974.4 | 3115.3 |
| 45°   | 4041.7 | 4087.1 | 4183.3 | 4178.5 | 3961.3 | 3511.1 | 3056.9 | 3001.9 | 3383.3 | 3437.6 | 3432.1 |
| 47.5° | 4124.9 | 4170.9 | 4330.3 | 4426.6 | 4307.0 | 3929.0 | 3563.4 | 3516.0 | 3932.4 | 3991.5 | 3781.9 |
| 50°   | 4167.5 | 4222.5 | 4425.9 | 4612.1 | 4577.1 | 4331.7 | 4140.7 | 4143.4 | 4595.6 | 4652.7 | 4187.4 |
| 52.5° | 4067.8 | 4139.3 | 4476.7 | 4812.1 | 4880.1 | 4717.3 | 4681.5 | 4772.2 | 5186.0 | 5234.8 | 4553.7 |
| 55°   | 3749.6 | 3839.7 | 4407.3 | 4982.5 | 5231.3 | 5172.2 | 5295.9 | 5434.1 | 5831.3 | 5862.9 | 4929.6 |
| 57.5° | 3548.3 | 3643.8 | 4202.5 | 5127.6 | 5653.3 | 5744.0 | 5939.9 | 6040.9 | 6497.2 | 6577.6 | 5361.2 |
| 60°   | 3378.5 | 3453.4 | 4034.1 | 5158.5 | 6082.1 | 6443.6 | 6634.0 | 6738.5 | 7319.2 | 7371.4 | 5836.1 |
| 62.5° | 3096.1 | 3182.0 | 3749.6 | 4942.7 | 6297.9 | 7003.7 | 7398.2 | 7351.5 | 7954.9 | 7991.3 | 6127.5 |
| 65°   | 2641.8 | 2649.3 | 3172.3 | 4400.4 | 6075.3 | 7367.3 | 7935.0 | 7739.1 | 8258.7 | 8283.4 | 6104.8 |
| 67.5° | 1971.7 | 2044.6 | 2440.4 | 3458.9 | 5131.7 | 7056.7 | 8108.8 | 7749.4 | 8066.9 | 7998.2 | 5620.3 |
| 70°   | 1270.0 | 1325.7 | 1654.2 | 2398.5 | 3700.1 | 5889.0 | 7532.2 | 7218.2 | 7080.0 | 6927.5 | 4600.4 |
| 72.5° | 586.2  | 657.7  | 982.8  | 1370.4 | 2194.4 | 4195.0 | 6114.4 | 5864.3 | 5095.9 | 4719.3 | 2924.2 |
| 75°   | 255.7  | 273.5  | 485.2  | 723.0  | 1028.8 | 2218.4 | 4031.4 | 3640.4 | 2301.6 | 2102.3 | 1170.4 |
| 77.5° | 156.0  | 167.7  | 254.3  | 387.6  | 404.1  | 845.3  | 2171.7 | 1588.2 | 711.3  | 627.5  | 317.5  |
| 80°   | 105.8  | 118.9  | 184.9  | 202.7  | 138.1  | 235.7  | 815.1  | 424.0  | 143.6  | 137.4  | 68.0   |
| 82.5° | 51.5   | 65.3   | 136.8  | 113.4  | 59.8   | 75.6   | 237.1  | 90.7   | 41.9   | 39.2   | 24.1   |
| 85°   | 7.6    | 13.1   | 77.0   | 74.2   | 26.8   | 17.9   | 41.9   | 22.7   | 14.4   | 13.7   | 11.0   |
| 87.5° | 0.0    | 0.0    | 26.1   | 11.7   | 2.7    | 2.7    | 4.8    | 4.8    | 5.5    | 4.8    | 5.5    |
| 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°    | 1780.7 | 1780.7 | 1780.7 | 1780.7 | 1780.7 | 1780.7 | 1780.7 | 1780.7 | 1780.7 | 1780.7 | 1780.7 |
| 2.5°  | 1794.4 | 1797.8 | 1784.8 | 1766.2 | 1746.3 | 1726.4 | 1698.2 | 1672.8 | 1657.6 | 1666.6 | 1644.6 |
| 5°    | 1826.7 | 1824.0 | 1789.6 | 1733.2 | 1658.3 | 1568.3 | 1479.0 | 1402.7 | 1377.9 | 1340.8 | 1336.7 |
| 7.5°  | 1871.4 | 1863.8 | 1791.0 | 1661.8 | 1492.7 | 1323.6 | 1158.7 | 1049.4 | 986.9  | 934.0  | 935.3  |
| 10°   | 1933.9 | 1911.9 | 1775.2 | 1536.0 | 1257.7 | 1002.7 | 792.4  | 648.1  | 585.5  | 565.6  | 549.8  |
| 12.5° | 1998.5 | 1955.9 | 1731.2 | 1366.2 | 979.3  | 685.2  | 481.8  | 393.8  | 355.3  | 342.9  | 341.6  |
| 15°   | 2056.2 | 1988.9 | 1654.2 | 1162.1 | 712.0  | 437.8  | 328.5  | 299.6  | 294.8  | 295.5  | 294.8  |
| 17.5° | 2113.3 | 2015.0 | 1547.7 | 945.7  | 483.8  | 314.1  | 282.5  | 275.6  | 277.6  | 280.4  | 279.7  |
| 20°   | 2160.7 | 2020.5 | 1411.6 | 721.6  | 342.2  | 275.6  | 265.3  | 263.9  | 266.0  | 268.0  | 268.0  |
| 22.5° | 2212.3 | 2024.6 | 1250.1 | 499.6  | 279.7  | 256.3  | 250.8  | 250.8  | 253.6  | 256.3  | 257.0  |
| 25°   | 2250.7 | 2002.0 | 1057.0 | 358.7  | 246.7  | 237.8  | 235.0  | 235.7  | 238.5  | 239.8  | 239.2  |
| 27.5° | 2256.9 | 1938.0 | 852.2  | 274.9  | 224.0  | 215.1  | 212.4  | 215.1  | 211.7  | 213.7  | 212.4  |
| 30°   | 2262.4 | 1856.9 | 644.6  | 231.6  | 203.4  | 189.7  | 185.6  | 181.4  | 178.7  | 175.2  | 174.6  |
| 32.5° | 2279.6 | 1761.4 | 470.8  | 208.2  | 184.2  | 169.1  | 159.4  | 147.8  | 138.8  | 136.1  | 135.4  |
| 35°   | 2287.2 | 1646.6 | 345.7  | 189.7  | 167.0  | 150.5  | 133.3  | 116.8  | 103.8  | 99.0   | 102.4  |
| 37.5° | 2316.0 | 1535.3 | 268.0  | 175.9  | 151.9  | 131.3  | 109.3  | 88.7   | 76.3   | 73.5   | 74.9   |
| 40°   | 2375.1 | 1414.4 | 224.7  | 164.3  | 138.8  | 113.4  | 86.6   | 66.7   | 58.4   | 55.7   | 55.0   |
| 42.5° | 2470.0 | 1294.1 | 200.0  | 153.3  | 125.8  | 95.5   | 68.0   | 52.2   | 45.4   | 43.3   | 43.3   |
| 45°   | 2585.4 | 1178.6 | 182.8  | 141.6  | 112.0  | 77.0   | 53.6   | 41.9   | 37.8   | 36.4   | 36.4   |
| 47.5° | 2737.3 | 1077.6 | 168.4  | 129.9  | 96.9   | 61.2   | 43.3   | 36.4   | 33.7   | 34.4   | 35.0   |
| 50°   | 2891.3 | 1002.7 | 152.6  | 116.8  | 79.7   | 50.2   | 37.1   | 32.3   | 31.6   | 32.3   | 32.3   |
| 52.5° | 3007.4 | 958.7  | 131.3  | 99.0   | 62.5   | 41.9   | 33.0   | 30.2   | 29.6   | 28.2   | 28.2   |
| 55°   | 3164.1 | 949.1  | 104.5  | 80.4   | 49.5   | 35.0   | 29.6   | 27.5   | 25.4   | 24.1   | 23.4   |
| 57.5° | 3365.5 | 960.1  | 80.4   | 62.5   | 38.5   | 28.9   | 26.1   | 22.7   | 19.9   | 17.2   | 17.2   |
| 60°   | 3490.5 | 935.3  | 62.5   | 48.1   | 28.2   | 23.4   | 19.9   | 16.5   | 13.1   | 11.0   | 10.3   |
| 62.5° | 3450.7 | 830.9  | 49.5   | 35.7   | 19.9   | 17.2   | 13.1   | 11.0   | 7.6    | 5.5    | 4.8    |
| 65°   | 3245.2 | 670.8  | 39.9   | 24.7   | 14.4   | 10.3   | 6.9    | 6.9    | 3.4    | 0.7    | 0.0    |
| 67.5° | 2840.4 | 496.9  | 31.6   | 16.5   | 8.2    | 4.8    | 3.4    | 2.1    | 0.0    | 0.0    | 0.0    |
| 70°   | 2311.9 | 358.7  | 24.7   | 10.3   | 4.8    | 3.4    | 1.4    | 0.7    | 0.0    | 0.0    | 0.0    |
| 72.5° | 1468.0 | 205.5  | 19.2   | 6.2    | 3.4    | 1.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°   | 567.7  | 80.4   | 13.1   | 4.1    | 1.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 160.8  | 37.8   | 7.6    | 2.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 41.9   | 16.5   | 4.1    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 19.9   | 6.9    | 1.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 11.7   | 2.7    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 5.5    | 0.7    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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)