

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: P452792

Luminaire Tested: **GLAN-SA3D-730-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452792  
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-SA3D-730-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 1200mA 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: 15441 lumens  
Efficiency: N/A  
Efficacy: 83.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 184  
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



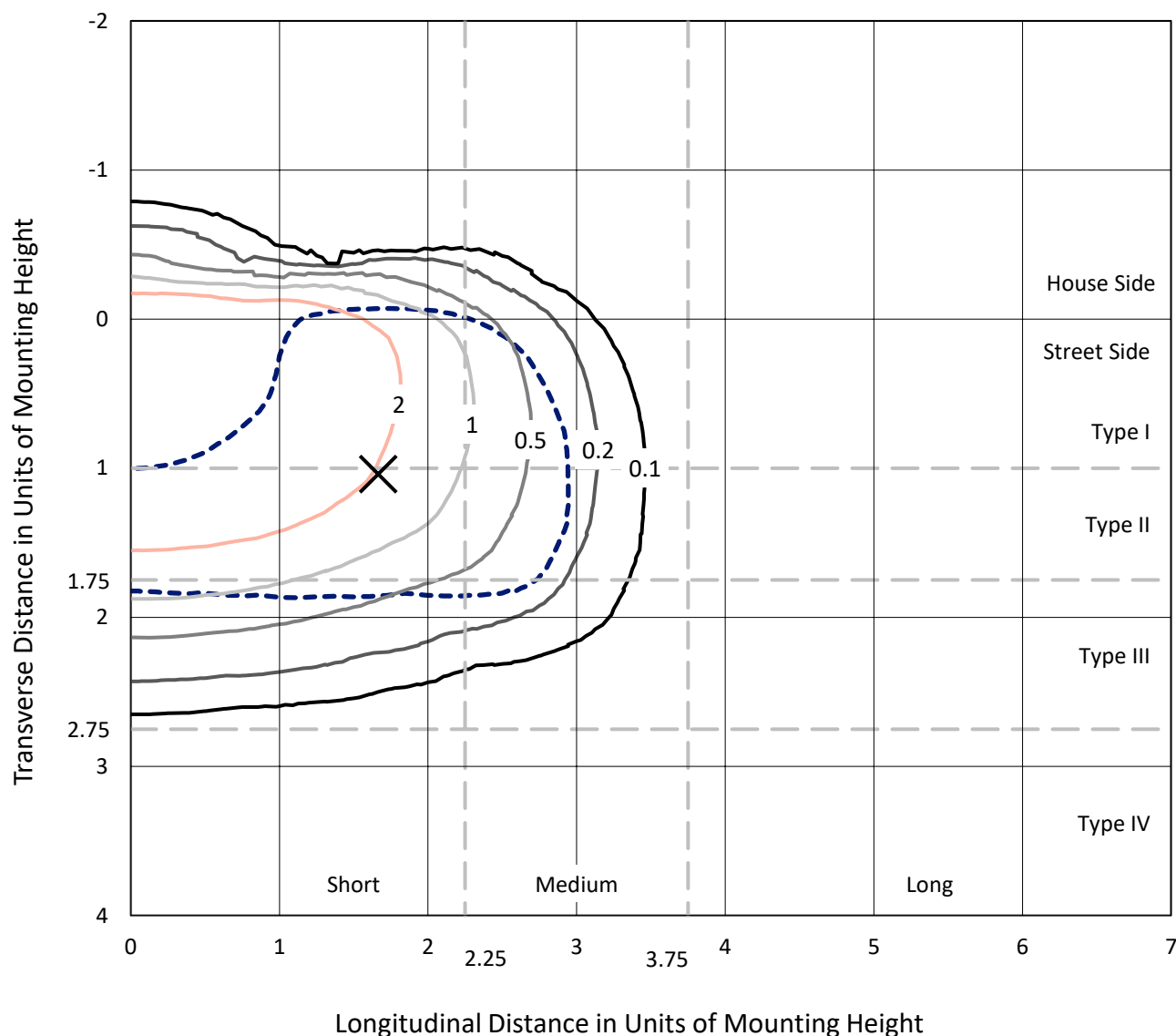
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



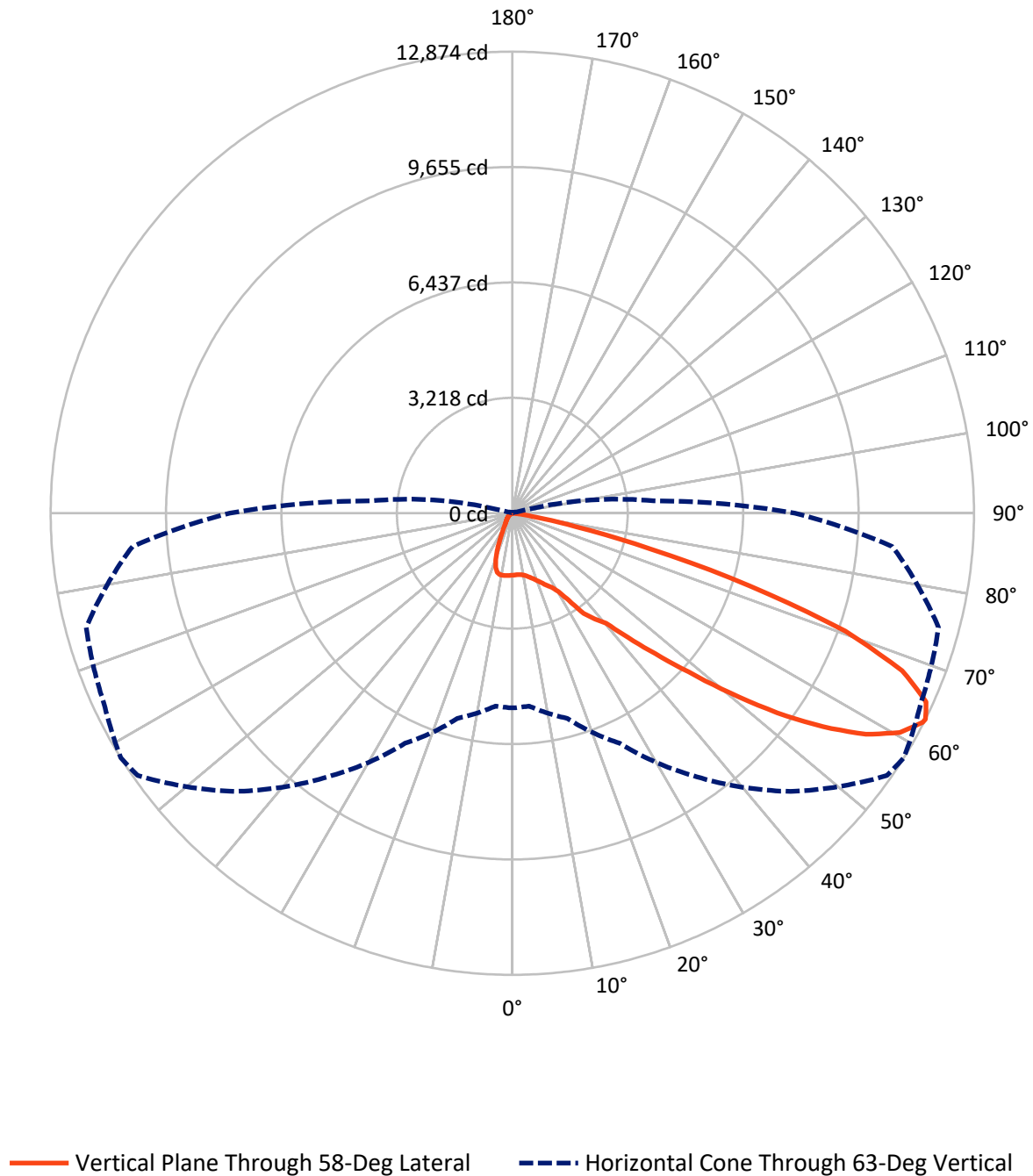
Based on 25 foot mounting height. Maximum calculated value = 3.8 fc

Type III - Short - N/A

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## Luminous Intensity Polar Plot



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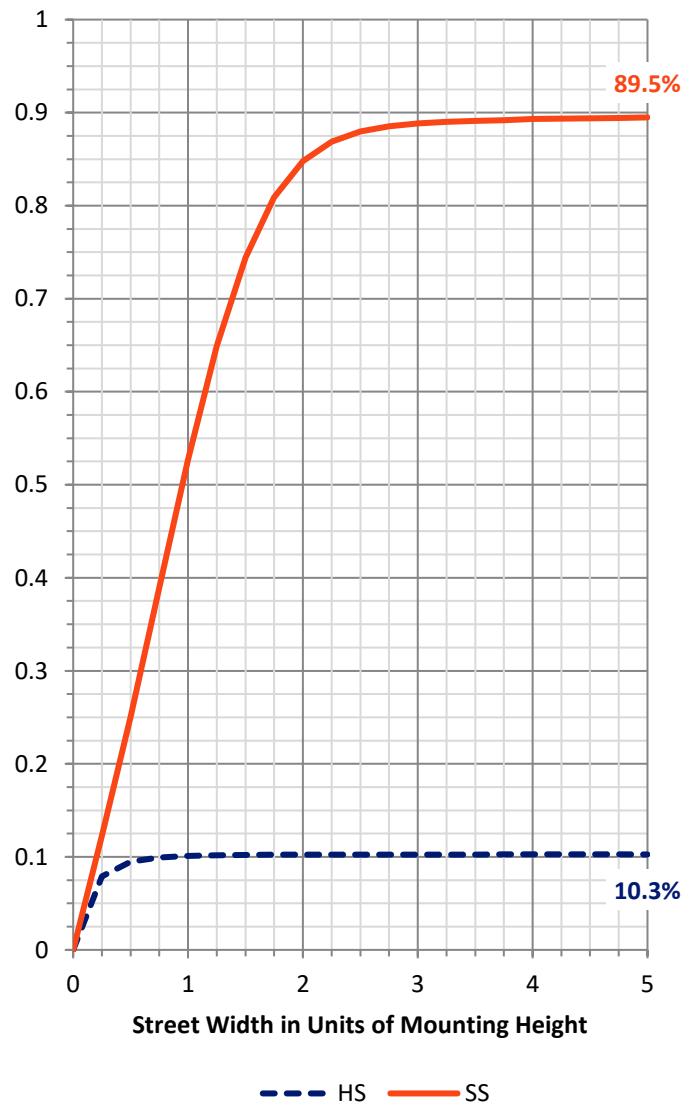
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1598.8   | 0.0    | 1598.8  |
|                    | % Fixture | 10.4     | 0.0    | 10.4    |
| <b>Street Side</b> | Lumens    | 13842.2  | 0.0    | 13842.2 |
|                    | % Fixture | 89.6     | 0.0    | 89.6    |
| <b>Total</b>       | Lumens    | 15441.0  | 0.0    | 15441.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 161.8   | 1.0       |
| 10°-20°   | 440.8   | 2.9       |
| 20°-30°   | 765.0   | 5.0       |
| 30°-40°   | 1405.7  | 9.1       |
| 40°-50°   | 2646.2  | 17.1      |
| 50°-60°   | 4526.1  | 29.3      |
| 60°-70°   | 4333.8  | 28.1      |
| 70°-80°   | 1105.1  | 7.2       |
| 80°-90°   | 56.5    | 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°    | 15441.0 | 100.0     |
| 0°-180°   | 15441.0 | 100.0     |

**Coefficient of Utilization**



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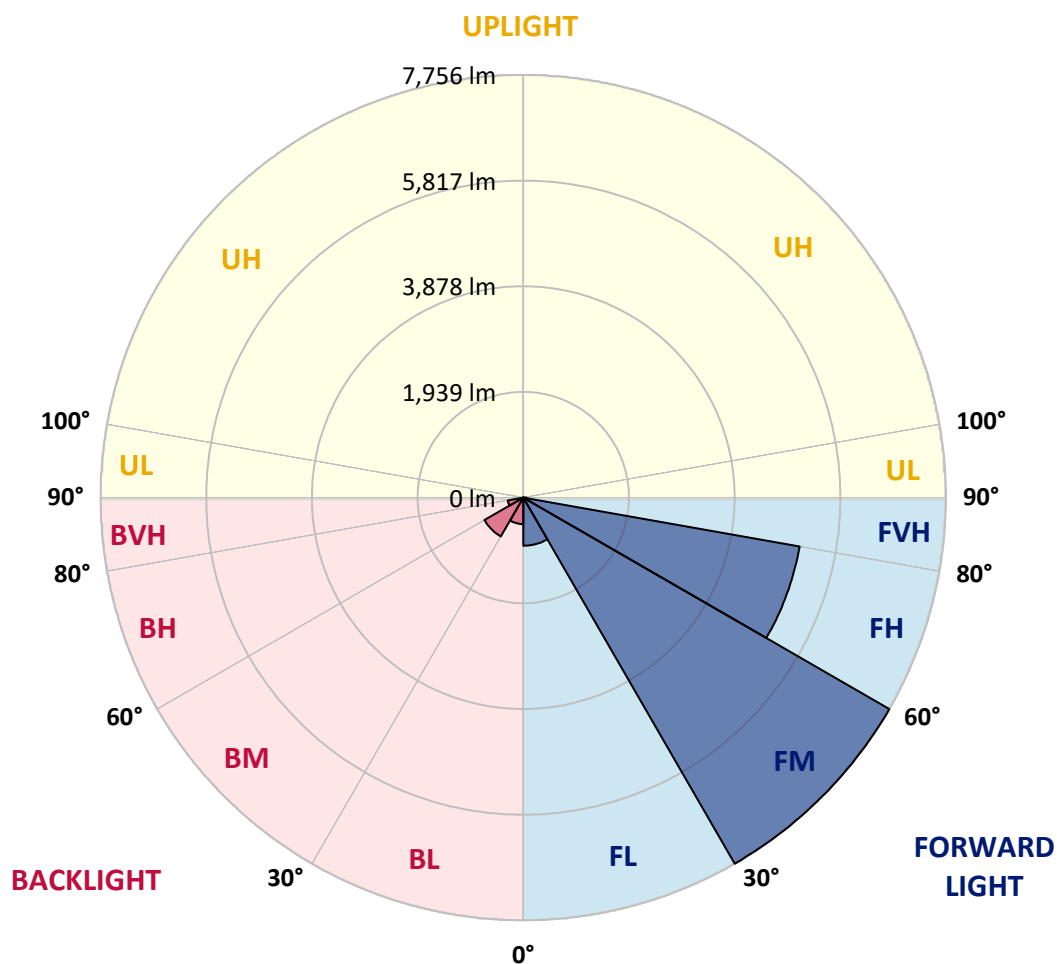
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 882.7  | 5.7       |                         |      |         |
| FM   | (30°-60°)   | 7755.7 | 50.2      |                         |      |         |
| FH   | (60°-80°)   | 5149.5 | 33.3      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 54.3   | 0.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 484.9  | 3.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 822.3  | 5.3       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 289.4  | 1.9       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 2.2    | 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-G3**

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 58°     | 65°     | 75°     | 85°     |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 1728.7 | 1728.7 | 1728.7 | 1728.7 | 1728.7  | 1728.7  | 1728.7  | 1728.7  | 1728.7  | 1728.7  | 1728.7  |
| 2.5°  | 1685.7 | 1691.5 | 1697.3 | 1699.6 | 1707.8  | 1715.9  | 1721.7  | 1720.5  | 1729.8  | 1734.5  | 1734.5  |
| 5°    | 1618.2 | 1618.2 | 1633.4 | 1647.3 | 1670.6  | 1693.8  | 1715.9  | 1720.5  | 1738.0  | 1754.3  | 1760.1  |
| 7.5°  | 1561.3 | 1564.8 | 1576.4 | 1602.0 | 1633.4  | 1674.0  | 1718.2  | 1728.7  | 1758.9  | 1794.9  | 1810.1  |
| 10°   | 1534.5 | 1536.9 | 1552.0 | 1578.7 | 1618.2  | 1674.0  | 1735.7  | 1755.4  | 1801.9  | 1858.9  | 1879.8  |
| 12.5° | 1528.7 | 1532.2 | 1547.3 | 1577.6 | 1622.9  | 1690.3  | 1774.0  | 1794.9  | 1862.4  | 1935.6  | 1967.0  |
| 15°   | 1539.2 | 1541.5 | 1556.6 | 1589.2 | 1639.2  | 1719.4  | 1825.2  | 1854.2  | 1934.4  | 2019.3  | 2060.0  |
| 17.5° | 1576.4 | 1574.1 | 1584.5 | 1611.3 | 1667.1  | 1755.4  | 1886.8  | 1921.7  | 2015.8  | 2132.1  | 2158.8  |
| 20°   | 1734.5 | 1719.4 | 1710.1 | 1686.8 | 1708.9  | 1806.6  | 1961.2  | 2012.3  | 2128.6  | 2247.2  | 2265.8  |
| 22.5° | 2075.1 | 2041.4 | 1975.1 | 1884.5 | 1814.7  | 1876.3  | 2050.7  | 2110.0  | 2260.0  | 2376.2  | 2376.2  |
| 25°   | 2508.7 | 2465.7 | 2399.5 | 2201.8 | 2030.9  | 1991.4  | 2151.8  | 2226.2  | 2402.9  | 2520.4  | 2482.0  |
| 27.5° | 3051.6 | 3017.9 | 2888.9 | 2658.7 | 2397.1  | 2192.5  | 2269.3  | 2337.8  | 2529.7  | 2671.5  | 2591.3  |
| 30°   | 3493.4 | 3477.1 | 3371.3 | 3165.6 | 2877.3  | 2578.5  | 2487.8  | 2533.1  | 2698.2  | 2862.1  | 2779.6  |
| 32.5° | 3866.6 | 3866.6 | 3758.5 | 3566.6 | 3296.9  | 3031.9  | 2858.7  | 2891.2  | 3049.3  | 3238.8  | 3085.4  |
| 35°   | 4276.9 | 4263.0 | 4175.8 | 3993.3 | 3691.0  | 3457.4  | 3386.4  | 3430.6  | 3573.6  | 3714.3  | 3336.5  |
| 37.5° | 4708.2 | 4703.6 | 4612.9 | 4436.2 | 4189.8  | 3895.6  | 3729.4  | 3741.0  | 3814.3  | 3900.3  | 3630.6  |
| 40°   | 5176.7 | 5183.7 | 5065.1 | 4955.9 | 4723.4  | 4422.3  | 4103.7  | 4030.5  | 4099.1  | 4342.0  | 4173.5  |
| 42.5° | 5730.1 | 5713.8 | 5662.7 | 5513.9 | 5326.7  | 5146.5  | 4764.0  | 4737.3  | 4797.8  | 5058.2  | 4875.6  |
| 45°   | 6373.0 | 6396.2 | 6307.9 | 6225.3 | 6099.8  | 5949.8  | 5630.1  | 5583.6  | 5649.9  | 6054.4  | 5795.2  |
| 47.5° | 7017.0 | 6994.9 | 7051.9 | 7036.8 | 7104.2  | 6992.6  | 6710.1  | 6614.8  | 6774.1  | 7157.7  | 6776.4  |
| 50°   | 7507.6 | 7532.0 | 7650.6 | 7823.8 | 8113.3  | 8176.1  | 7905.2  | 7872.6  | 7943.6  | 8190.0  | 7654.1  |
| 52.5° | 7826.1 | 7907.5 | 8093.5 | 8538.8 | 9060.7  | 9466.5  | 9260.7  | 9243.3  | 9214.2  | 9280.5  | 8493.4  |
| 55°   | 8034.2 | 8116.8 | 8359.7 | 9015.4 | 9914.0  | 10573.2 | 10583.7 | 10509.3 | 10317.4 | 10269.8 | 9278.1  |
| 57.5° | 7906.4 | 7922.6 | 8269.1 | 9145.6 | 10387.2 | 11362.6 | 11704.3 | 11629.9 | 11275.4 | 11095.2 | 9971.0  |
| 60°   | 7106.5 | 7140.2 | 7622.7 | 8652.7 | 10181.4 | 11620.6 | 12447.2 | 12413.5 | 12025.2 | 11821.8 | 10510.4 |
| 62.5° | 5689.4 | 5787.1 | 6283.5 | 7432.0 | 9224.7  | 11185.8 | 12748.3 | 12843.6 | 12541.4 | 12261.2 | 10680.1 |
| 63°   | 5429.0 | 5397.6 | 5921.9 | 7076.3 | 8971.2  | 10970.8 | 12752.9 | 12873.8 | 12564.6 | 12303.0 | 10633.6 |
| 65°   | 4018.9 | 4113.0 | 4453.6 | 5580.1 | 7465.8  | 9969.8  | 12465.8 | 12679.7 | 12478.6 | 12118.2 | 10118.6 |
| 67.5° | 2256.5 | 2251.8 | 2628.5 | 3651.5 | 5225.6  | 7820.3  | 11271.9 | 11724.1 | 11682.2 | 10874.3 | 8387.6  |
| 70°   | 1104.4 | 1121.8 | 1276.5 | 1892.6 | 3030.7  | 5395.3  | 9366.5  | 9854.8  | 9869.9  | 8541.1  | 5799.9  |
| 72.5° | 499.9  | 508.0  | 618.5  | 921.9  | 1557.8  | 2872.6  | 6454.4  | 6920.5  | 6834.5  | 5443.0  | 3202.8  |
| 75°   | 263.9  | 281.3  | 340.6  | 463.8  | 751.0   | 1184.6  | 3510.8  | 3961.9  | 3781.7  | 2486.6  | 1178.8  |
| 77.5° | 195.3  | 201.1  | 231.3  | 295.3  | 402.2   | 461.5   | 1514.8  | 1801.9  | 1688.0  | 899.8   | 390.6   |
| 80°   | 143.0  | 147.6  | 172.1  | 209.3  | 253.4   | 234.8   | 570.8   | 654.5   | 587.1   | 305.7   | 119.7   |
| 82.5° | 87.2   | 88.4   | 125.6  | 155.8  | 159.3   | 131.4   | 188.3   | 202.3   | 211.6   | 172.1   | 65.1    |
| 85°   | 31.4   | 39.5   | 84.9   | 112.8  | 94.2    | 66.3    | 79.1    | 87.2    | 95.3    | 109.3   | 38.4    |
| 87.5° | 3.5    | 4.7    | 40.7   | 54.6   | 26.7    | 24.4    | 29.1    | 32.6    | 34.9    | 40.7    | 18.6    |
| 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°    | 1728.7 | 1728.7 | 1728.7 | 1728.7 | 1728.7 | 1728.7 | 1728.7 | 1728.7 | 1728.7 | 1728.7 | 1728.7 |
| 2.5°  | 1739.1 | 1743.8 | 1740.3 | 1734.5 | 1733.3 | 1729.8 | 1722.9 | 1722.9 | 1722.9 | 1725.2 | 1722.9 |
| 5°    | 1764.7 | 1768.2 | 1760.1 | 1748.4 | 1735.7 | 1719.4 | 1701.9 | 1691.5 | 1690.3 | 1688.0 | 1682.2 |
| 7.5°  | 1813.5 | 1818.2 | 1799.6 | 1771.7 | 1736.8 | 1697.3 | 1660.1 | 1625.2 | 1608.9 | 1596.2 | 1596.2 |
| 10°   | 1884.5 | 1889.1 | 1851.9 | 1801.9 | 1732.2 | 1652.0 | 1563.6 | 1483.4 | 1420.6 | 1391.5 | 1384.6 |
| 12.5° | 1969.3 | 1971.6 | 1910.0 | 1822.8 | 1707.8 | 1553.1 | 1364.8 | 1189.3 | 1067.2 | 1011.4 | 1005.6 |
| 15°   | 2062.3 | 2046.0 | 1964.7 | 1831.0 | 1638.0 | 1349.7 | 1024.2 | 809.1  | 682.4  | 645.2  | 659.2  |
| 17.5° | 2156.5 | 2126.3 | 2006.5 | 1818.2 | 1481.1 | 1024.2 | 688.2  | 552.2  | 512.7  | 502.2  | 502.2  |
| 20°   | 2244.8 | 2203.0 | 2036.7 | 1762.4 | 1209.0 | 705.7  | 510.3  | 477.8  | 470.8  | 463.8  | 465.0  |
| 22.5° | 2333.2 | 2269.3 | 2063.5 | 1638.0 | 901.0  | 504.5  | 456.9  | 446.4  | 437.1  | 427.8  | 426.6  |
| 25°   | 2419.2 | 2330.9 | 2074.0 | 1407.8 | 613.8  | 433.6  | 417.3  | 403.4  | 384.8  | 374.3  | 372.0  |
| 27.5° | 2508.7 | 2405.3 | 2067.0 | 1117.2 | 447.6  | 388.3  | 372.0  | 352.2  | 330.2  | 311.6  | 311.6  |
| 30°   | 2680.8 | 2547.1 | 2042.6 | 803.3  | 376.7  | 341.8  | 320.9  | 289.5  | 265.1  | 246.5  | 245.3  |
| 32.5° | 2915.6 | 2731.9 | 1958.9 | 565.0  | 334.8  | 301.1  | 269.7  | 234.8  | 209.3  | 195.3  | 195.3  |
| 35°   | 3124.9 | 2917.9 | 1801.9 | 416.2  | 301.1  | 261.6  | 223.2  | 189.5  | 169.7  | 160.4  | 156.9  |
| 37.5° | 3443.4 | 3190.0 | 1585.7 | 338.3  | 268.5  | 226.7  | 187.2  | 155.8  | 139.5  | 132.5  | 132.5  |
| 40°   | 3921.2 | 3522.5 | 1320.6 | 296.4  | 237.2  | 193.0  | 155.8  | 131.4  | 118.6  | 110.4  | 110.4  |
| 42.5° | 4514.1 | 3929.3 | 1052.1 | 266.2  | 208.1  | 166.2  | 130.2  | 111.6  | 100.0  | 94.2   | 93.0   |
| 45°   | 5260.4 | 4358.3 | 810.3  | 238.3  | 184.8  | 141.8  | 110.4  | 94.2   | 82.5   | 79.1   | 80.2   |
| 47.5° | 6039.3 | 4736.1 | 627.8  | 213.9  | 160.4  | 119.7  | 94.2   | 81.4   | 73.2   | 68.6   | 68.6   |
| 50°   | 6704.3 | 4996.5 | 476.6  | 186.0  | 141.8  | 101.1  | 82.5   | 73.2   | 66.3   | 63.9   | 62.8   |
| 52.5° | 7260.0 | 5072.1 | 365.0  | 161.6  | 124.4  | 87.2   | 73.2   | 66.3   | 60.5   | 57.0   | 57.0   |
| 55°   | 7733.1 | 5005.8 | 286.0  | 136.0  | 104.6  | 75.6   | 65.1   | 59.3   | 52.3   | 48.8   | 47.7   |
| 57.5° | 8009.8 | 4793.1 | 218.6  | 112.8  | 84.9   | 62.8   | 57.0   | 50.0   | 41.9   | 36.0   | 36.0   |
| 60°   | 8149.3 | 4483.9 | 167.4  | 93.0   | 65.1   | 50.0   | 46.5   | 37.2   | 29.1   | 24.4   | 23.3   |
| 62.5° | 7981.9 | 4073.5 | 126.7  | 73.2   | 48.8   | 37.2   | 31.4   | 26.7   | 18.6   | 14.0   | 14.0   |
| 63°   | 7878.5 | 3954.9 | 122.1  | 69.8   | 45.3   | 34.9   | 29.1   | 24.4   | 16.3   | 12.8   | 11.6   |
| 65°   | 7182.1 | 3437.6 | 100.0  | 55.8   | 36.0   | 24.4   | 19.8   | 17.4   | 11.6   | 5.8    | 4.7    |
| 67.5° | 5703.4 | 2629.6 | 79.1   | 41.9   | 25.6   | 17.4   | 11.6   | 10.5   | 3.5    | 0.0    | 0.0    |
| 70°   | 3856.1 | 1698.5 | 61.6   | 30.2   | 17.4   | 10.5   | 5.8    | 4.7    | 1.2    | 0.0    | 0.0    |
| 72.5° | 2011.2 | 870.7  | 47.7   | 22.1   | 10.5   | 7.0    | 3.5    | 1.2    | 0.0    | 0.0    | 0.0    |
| 75°   | 711.5  | 296.4  | 34.9   | 14.0   | 7.0    | 3.5    | 1.2    | 0.0    | 0.0    | 0.0    | 0.0    |
| 77.5° | 215.1  | 110.4  | 22.1   | 10.5   | 4.7    | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°   | 75.6   | 40.7   | 12.8   | 7.0    | 3.5    | 1.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 82.5° | 37.2   | 19.8   | 8.1    | 5.8    | 3.5    | 1.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 20.9   | 12.8   | 7.0    | 5.8    | 3.5    | 2.3    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 15.1   | 9.3    | 7.0    | 5.8    | 4.7    | 2.3    | 1.2    | 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)