

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: P191910

Luminaire Tested: **GAN-AF-02-LED-U-SL3-7050-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191910
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-SL3-7050-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6856 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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: 28.75 FT

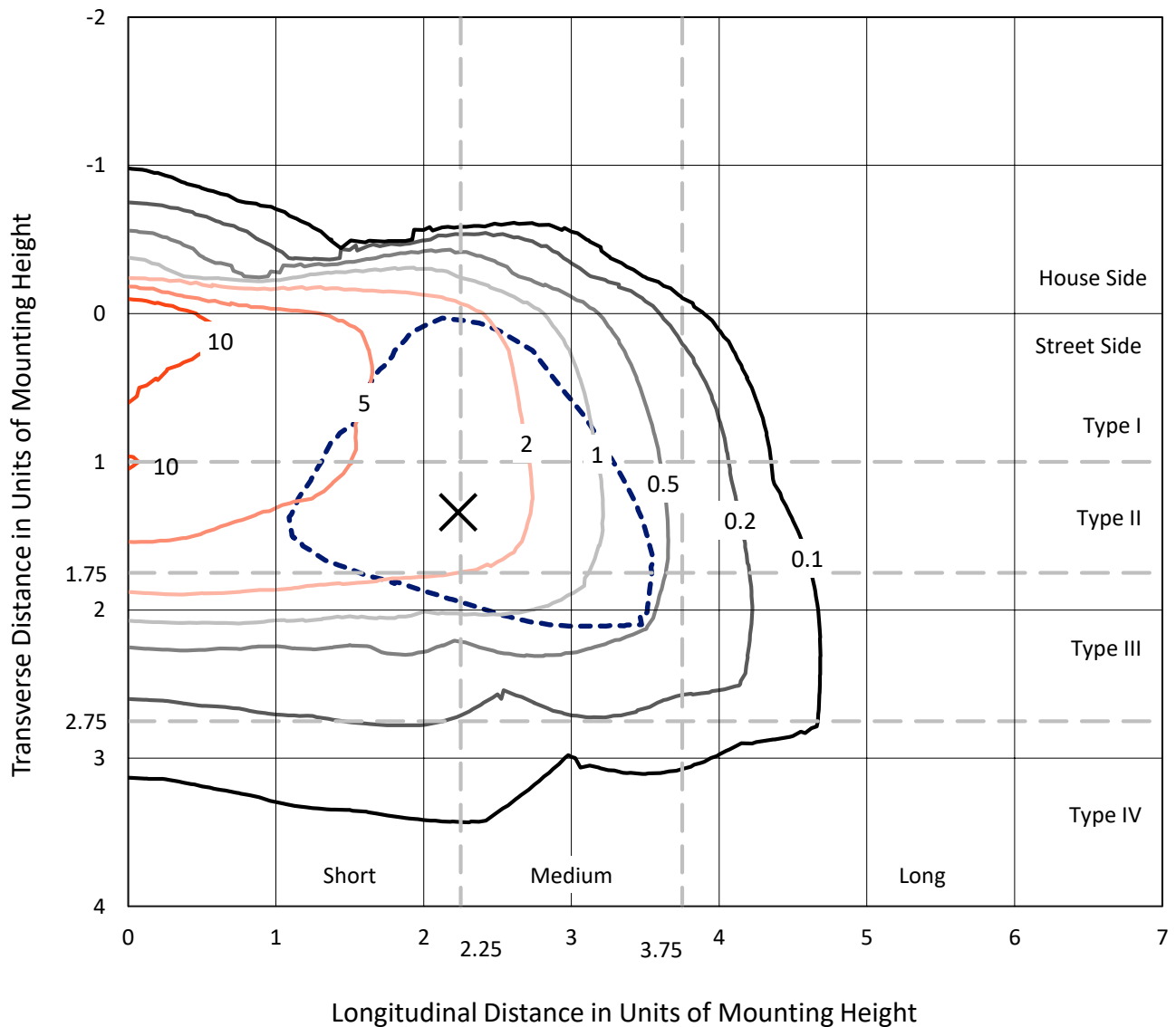


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

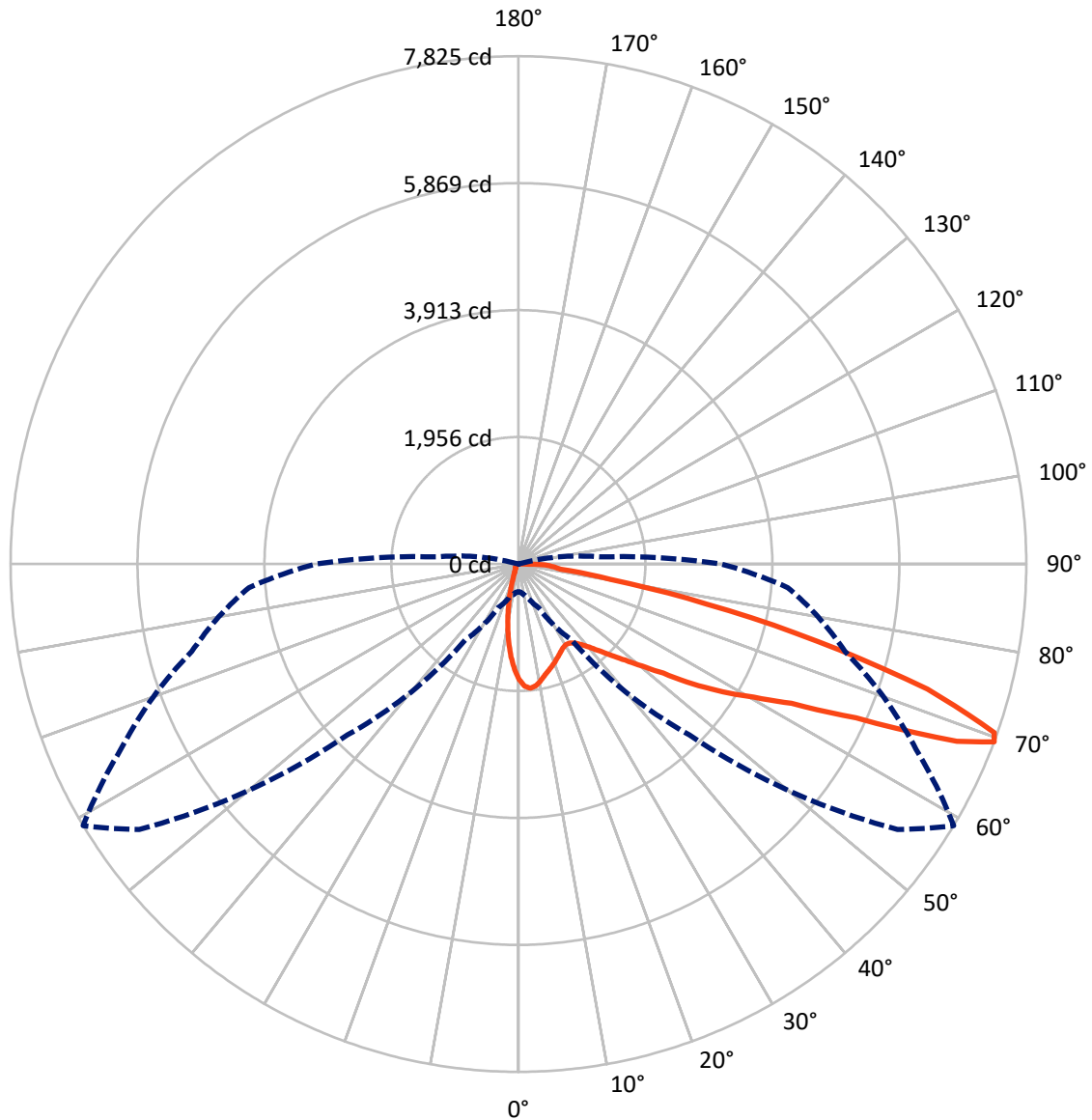


Based on 10 foot mounting height. Maximum calculated value = 17.9 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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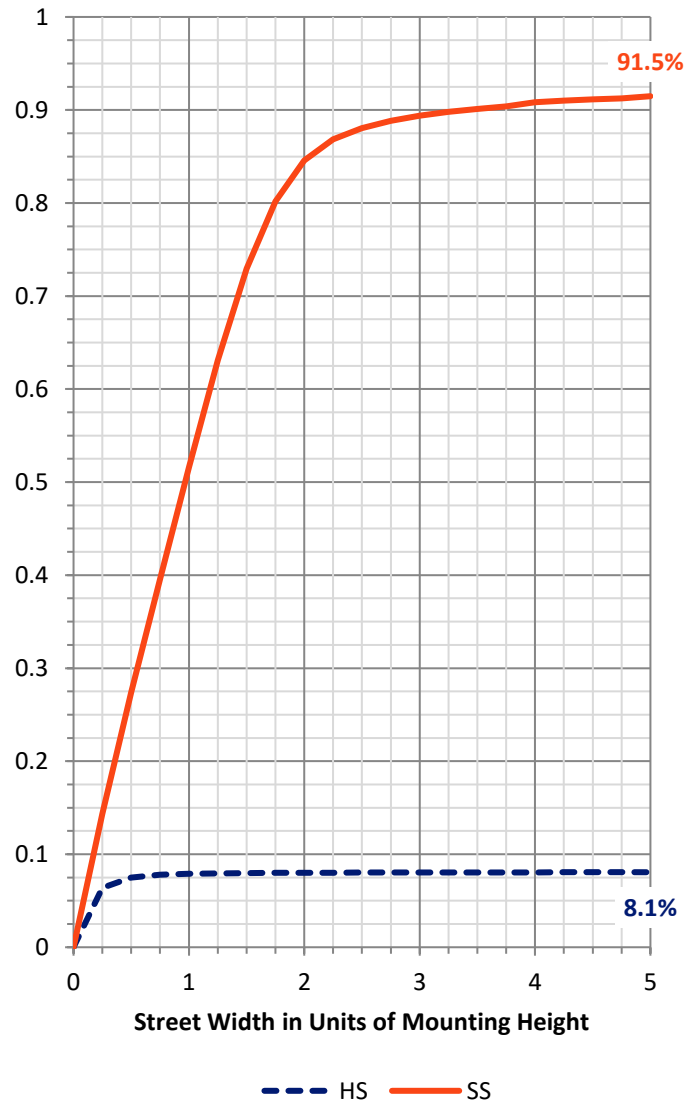
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 558.3 | 0.0 | 558.3 |
| | % Fixture | 8.1 | 0.0 | 8.1 |
| Street Side | Lumens | 6297.7 | 0.0 | 6297.7 |
| | % Fixture | 91.9 | 0.0 | 91.9 |
| Total | Lumens | 6856.0 | 0.0 | 6856.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 144.9 | 2.1 |
| 10°-20° | 299.3 | 4.4 |
| 20°-30° | 402.7 | 5.9 |
| 30°-40° | 584.8 | 8.5 |
| 40°-50° | 973.7 | 14.2 |
| 50°-60° | 1518.9 | 22.2 |
| 60°-70° | 1879.5 | 27.4 |
| 70°-80° | 952.5 | 13.9 |
| 80°-90° | 99.7 | 1.5 |
| 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° | 6856.0 | 100.0 |
| 0°-180° | 6856.0 | 100.0 |

Coefficient of Utilization



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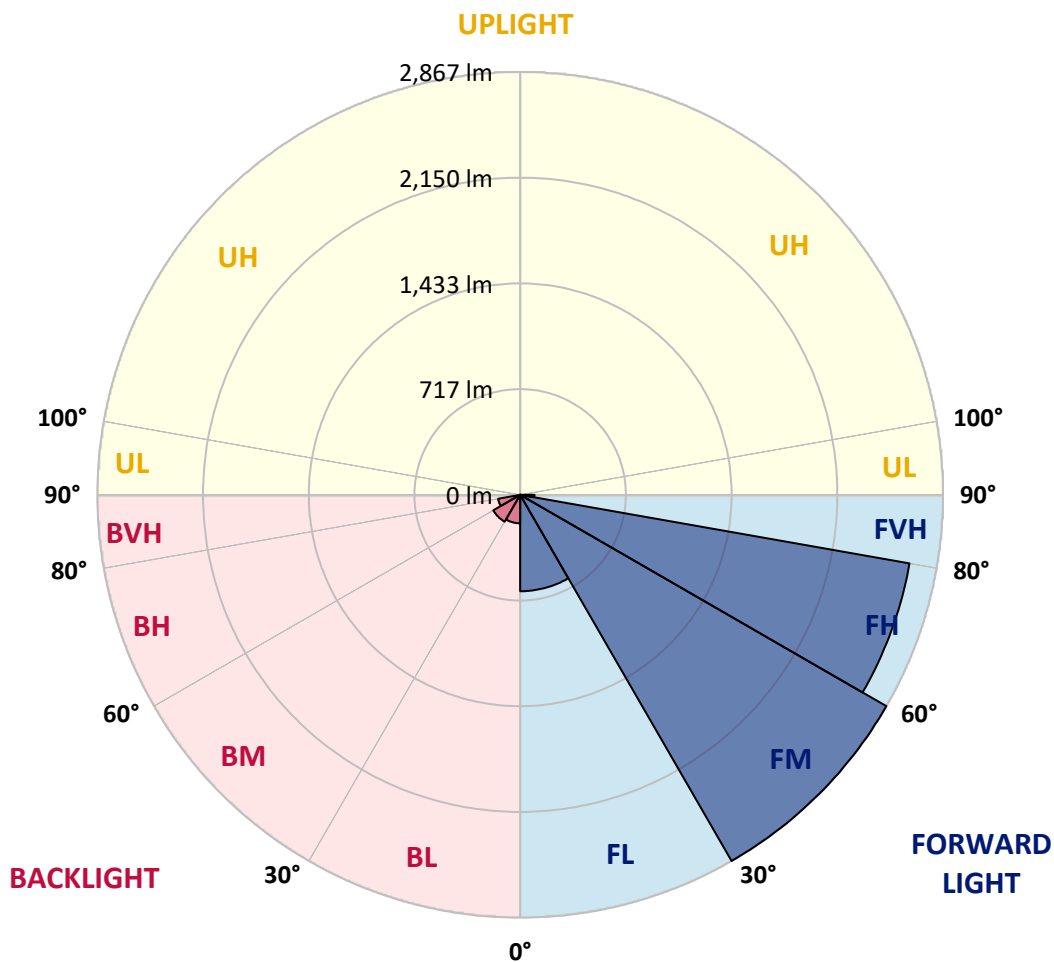
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 653.6 | 9.5 | | | |
| FM | (30°-60°) | 2867.0 | 41.8 | | | |
| FH | (60°-80°) | 2680.4 | 39.1 | | | G2/5000 |
| FVH | (80°-90°) | 96.6 | 1.4 | | | G1/100 |
| BL | (0°-30°) | 193.3 | 2.8 | B1/500 | | |
| BM | (30°-60°) | 210.4 | 3.1 | B0/220 | | |
| BH | (60°-80°) | 151.6 | 2.2 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 3.1 | 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° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1784.5 | 1784.5 | 1784.5 | 1784.5 | 1784.5 | 1784.5 | 1784.5 | 1784.5 | 1784.5 | 1784.5 | 1784.5 |
| 2.5° | 1955.9 | 1955.1 | 1946.6 | 1942.7 | 1935.7 | 1921.0 | 1898.1 | 1886.1 | 1866.7 | 1833.0 | 1787.6 |
| 5° | 1938.0 | 1947.4 | 1952.4 | 1952.8 | 1957.8 | 1952.4 | 1931.8 | 1921.8 | 1895.0 | 1840.7 | 1759.3 |
| 7.5° | 1817.1 | 1820.6 | 1834.9 | 1847.3 | 1871.4 | 1894.2 | 1901.6 | 1897.3 | 1881.4 | 1823.3 | 1715.1 |
| 10° | 1687.6 | 1691.1 | 1708.1 | 1724.4 | 1757.0 | 1792.3 | 1829.5 | 1837.2 | 1843.8 | 1798.5 | 1672.5 |
| 12.5° | 1575.9 | 1579.4 | 1596.9 | 1618.2 | 1656.2 | 1699.6 | 1757.4 | 1770.2 | 1799.3 | 1774.8 | 1638.4 |
| 15° | 1479.8 | 1481.4 | 1498.4 | 1524.8 | 1570.1 | 1626.0 | 1691.5 | 1712.0 | 1756.6 | 1758.2 | 1608.5 |
| 17.5° | 1398.0 | 1401.9 | 1412.3 | 1437.5 | 1487.2 | 1556.2 | 1632.5 | 1662.0 | 1714.4 | 1744.2 | 1579.4 |
| 20° | 1348.0 | 1351.9 | 1351.5 | 1365.4 | 1410.0 | 1483.7 | 1573.6 | 1608.9 | 1672.5 | 1729.9 | 1553.5 |
| 22.5° | 1338.3 | 1338.3 | 1328.2 | 1326.3 | 1352.6 | 1414.3 | 1512.4 | 1555.4 | 1634.9 | 1723.7 | 1535.2 |
| 25° | 1372.8 | 1371.2 | 1346.0 | 1325.5 | 1326.7 | 1363.5 | 1453.0 | 1504.2 | 1603.1 | 1727.9 | 1525.5 |
| 27.5° | 1445.7 | 1443.7 | 1412.0 | 1372.8 | 1341.4 | 1341.0 | 1408.1 | 1463.1 | 1577.9 | 1748.1 | 1529.4 |
| 30° | 1546.5 | 1545.7 | 1511.2 | 1462.0 | 1405.0 | 1352.6 | 1392.6 | 1442.6 | 1561.6 | 1784.5 | 1538.3 |
| 32.5° | 1656.6 | 1655.4 | 1629.4 | 1577.5 | 1505.4 | 1405.0 | 1408.9 | 1450.7 | 1566.3 | 1833.0 | 1560.1 |
| 35° | 1773.3 | 1771.3 | 1760.1 | 1714.7 | 1635.3 | 1501.5 | 1462.4 | 1494.9 | 1595.7 | 1905.5 | 1602.7 |
| 37.5° | 1899.7 | 1901.6 | 1909.7 | 1866.3 | 1783.0 | 1636.8 | 1551.9 | 1574.0 | 1655.0 | 2004.0 | 1672.1 |
| 40° | 2086.1 | 2085.8 | 2088.5 | 2031.5 | 1951.2 | 1802.4 | 1677.1 | 1684.1 | 1754.3 | 2134.6 | 1777.5 |
| 42.5° | 2424.6 | 2400.9 | 2329.2 | 2212.9 | 2132.3 | 1991.5 | 1834.9 | 1827.6 | 1875.6 | 2296.3 | 1925.3 |
| 45° | 2879.3 | 2829.0 | 2642.9 | 2419.9 | 2316.8 | 2204.8 | 2029.2 | 2005.5 | 2036.1 | 2490.5 | 2107.5 |
| 47.5° | 3270.5 | 3218.2 | 2954.9 | 2635.5 | 2512.6 | 2407.1 | 2256.7 | 2214.1 | 2224.2 | 2708.0 | 2338.5 |
| 50° | 3403.5 | 3377.9 | 3148.0 | 2823.1 | 2702.2 | 2661.9 | 2520.7 | 2468.8 | 2454.4 | 2959.6 | 2606.4 |
| 52.5° | 3357.4 | 3355.4 | 3202.3 | 2944.9 | 2875.9 | 2925.5 | 2853.0 | 2792.9 | 2740.2 | 3224.8 | 2879.0 |
| 55° | 3283.3 | 3293.0 | 3224.4 | 3051.5 | 3049.2 | 3166.2 | 3307.4 | 3257.3 | 3104.6 | 3512.8 | 3113.9 |
| 57.5° | 3079.0 | 3120.5 | 3212.0 | 3253.1 | 3348.5 | 3468.2 | 3685.7 | 3715.2 | 3534.5 | 3733.4 | 3308.9 |
| 60° | 2498.3 | 2589.4 | 2888.7 | 3282.2 | 3734.2 | 4032.7 | 4142.4 | 4167.6 | 3887.3 | 3916.8 | 3572.1 |
| 62.5° | 1773.3 | 1866.3 | 2245.9 | 2911.5 | 3740.0 | 4774.4 | 4822.8 | 4724.0 | 4275.8 | 4188.6 | 4026.1 |
| 65° | 941.3 | 1013.0 | 1323.2 | 2101.6 | 3242.6 | 4946.5 | 6012.6 | 5718.0 | 4961.2 | 4723.2 | 4612.7 |
| 67.5° | 481.5 | 503.2 | 626.5 | 1028.5 | 2229.2 | 4393.7 | 7079.2 | 7286.6 | 6142.5 | 5253.5 | 4584.4 |
| 69° | 426.1 | 438.9 | 520.7 | 743.6 | 1427.5 | 3721.4 | 7131.1 | 7825.1 | 6760.9 | 5209.3 | 4166.1 |
| 70° | 412.5 | 423.7 | 498.2 | 673.0 | 1115.8 | 3120.9 | 6932.2 | 7777.8 | 6919.0 | 5041.1 | 3853.6 |
| 72.5° | 350.1 | 359.8 | 443.5 | 594.7 | 906.8 | 1549.2 | 5631.1 | 6590.7 | 6208.8 | 4199.4 | 2789.4 |
| 75° | 234.2 | 266.0 | 425.7 | 557.5 | 843.6 | 880.0 | 3712.5 | 4762.7 | 4424.3 | 2832.4 | 1453.0 |
| 77.5° | 56.2 | 60.5 | 120.2 | 443.5 | 771.5 | 774.6 | 1909.4 | 2960.8 | 2414.9 | 1009.5 | 343.5 |
| 80° | 30.2 | 29.1 | 33.7 | 88.0 | 718.4 | 726.9 | 859.5 | 1437.2 | 862.2 | 167.5 | 113.2 |
| 82.5° | 21.3 | 20.2 | 21.7 | 36.8 | 226.0 | 662.2 | 621.8 | 650.5 | 357.4 | 64.4 | 50.8 |
| 85° | 7.8 | 7.4 | 12.0 | 33.3 | 70.9 | 380.7 | 638.9 | 536.6 | 289.6 | 29.5 | 37.2 |
| 87.5° | 2.7 | 2.3 | 4.7 | 18.2 | 21.7 | 162.1 | 394.3 | 405.5 | 114.0 | 17.8 | 17.4 |
| 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° | 1784.5 | 1784.5 | 1784.5 | 1784.5 | 1784.5 | 1784.5 | 1784.5 | 1784.5 | 1784.5 | 1784.5 | 1784.5 |
| 2.5° | 1768.6 | 1744.6 | 1700.4 | 1655.0 | 1613.2 | 1562.8 | 1537.6 | 1512.8 | 1502.3 | 1498.4 | 1480.2 |
| 5° | 1717.5 | 1676.7 | 1582.9 | 1488.7 | 1401.9 | 1309.6 | 1248.7 | 1199.9 | 1171.2 | 1157.2 | 1135.1 |
| 7.5° | 1651.9 | 1585.3 | 1443.0 | 1297.6 | 1162.3 | 1028.9 | 930.1 | 854.1 | 801.7 | 776.5 | 753.7 |
| 10° | 1588.4 | 1499.6 | 1297.2 | 1099.1 | 915.3 | 738.5 | 602.1 | 503.2 | 440.0 | 410.9 | 392.3 |
| 12.5° | 1531.4 | 1416.2 | 1156.5 | 905.6 | 675.0 | 467.9 | 329.1 | 250.4 | 211.3 | 197.7 | 191.1 |
| 15° | 1480.6 | 1339.5 | 1023.5 | 721.9 | 457.1 | 267.5 | 179.9 | 153.1 | 146.9 | 146.9 | 146.2 |
| 17.5° | 1432.5 | 1264.2 | 895.2 | 549.4 | 286.9 | 163.6 | 136.9 | 133.4 | 133.4 | 134.9 | 134.9 |
| 20° | 1386.4 | 1192.5 | 771.1 | 394.3 | 180.7 | 129.9 | 123.7 | 122.9 | 123.7 | 125.6 | 125.6 |
| 22.5° | 1346.8 | 1127.4 | 655.2 | 270.6 | 134.1 | 117.1 | 114.0 | 112.8 | 113.2 | 114.4 | 115.1 |
| 25° | 1317.4 | 1072.3 | 545.9 | 183.4 | 115.5 | 106.6 | 103.1 | 101.2 | 99.6 | 99.6 | 100.4 |
| 27.5° | 1298.8 | 1025.8 | 440.0 | 133.4 | 103.9 | 96.9 | 91.5 | 88.4 | 84.9 | 83.0 | 83.7 |
| 30° | 1285.2 | 981.6 | 340.8 | 108.9 | 93.0 | 86.1 | 79.1 | 74.0 | 69.0 | 66.7 | 67.5 |
| 32.5° | 1280.1 | 946.0 | 254.7 | 96.1 | 83.4 | 75.6 | 67.1 | 60.5 | 55.1 | 53.1 | 53.5 |
| 35° | 1293.7 | 917.7 | 186.5 | 86.8 | 75.6 | 65.9 | 56.2 | 48.8 | 44.6 | 43.4 | 43.8 |
| 37.5° | 1329.4 | 902.5 | 139.6 | 79.1 | 68.6 | 57.8 | 46.9 | 39.9 | 37.2 | 37.2 | 37.6 |
| 40° | 1396.8 | 902.1 | 112.0 | 73.7 | 62.4 | 50.0 | 38.8 | 33.7 | 32.2 | 33.0 | 33.3 |
| 42.5° | 1495.3 | 922.7 | 97.7 | 68.6 | 57.0 | 42.6 | 32.2 | 28.7 | 28.3 | 29.1 | 29.5 |
| 45° | 1629.8 | 960.3 | 89.9 | 64.4 | 51.2 | 35.7 | 27.1 | 24.8 | 24.8 | 26.0 | 26.4 |
| 47.5° | 1794.6 | 1015.4 | 83.4 | 60.1 | 45.4 | 29.9 | 23.3 | 21.7 | 22.1 | 23.3 | 23.6 |
| 50° | 1993.1 | 1084.7 | 76.8 | 55.4 | 41.1 | 24.8 | 20.2 | 19.0 | 19.4 | 20.9 | 21.3 |
| 52.5° | 2219.1 | 1178.2 | 71.3 | 51.2 | 35.7 | 20.5 | 17.1 | 16.3 | 17.1 | 18.6 | 19.0 |
| 55° | 2413.0 | 1261.9 | 64.7 | 47.7 | 28.7 | 17.1 | 14.0 | 14.0 | 14.7 | 16.7 | 17.1 |
| 57.5° | 2599.4 | 1349.5 | 58.9 | 41.1 | 22.5 | 13.6 | 11.6 | 12.0 | 13.2 | 15.1 | 15.5 |
| 60° | 2873.1 | 1498.0 | 52.0 | 34.5 | 17.1 | 10.9 | 9.7 | 10.1 | 11.6 | 13.6 | 14.0 |
| 62.5° | 3338.0 | 1724.0 | 45.0 | 28.7 | 13.2 | 8.5 | 7.8 | 8.5 | 10.5 | 12.8 | 13.2 |
| 65° | 3757.5 | 1815.9 | 36.8 | 24.0 | 10.1 | 6.6 | 6.6 | 7.8 | 10.1 | 12.4 | 12.8 |
| 67.5° | 3523.7 | 1528.6 | 28.7 | 19.0 | 7.8 | 5.0 | 5.4 | 7.4 | 9.7 | 12.4 | 12.8 |
| 69° | 3116.2 | 1249.9 | 24.4 | 15.1 | 6.6 | 4.7 | 5.0 | 7.4 | 9.7 | 12.0 | 12.4 |
| 70° | 2798.7 | 1055.3 | 21.7 | 12.8 | 5.8 | 4.7 | 5.0 | 7.0 | 9.7 | 12.0 | 12.4 |
| 72.5° | 1874.5 | 569.9 | 17.4 | 9.3 | 5.4 | 4.3 | 4.3 | 7.0 | 9.3 | 11.6 | 12.0 |
| 75° | 805.6 | 157.4 | 14.0 | 6.6 | 4.7 | 3.9 | 3.9 | 6.6 | 8.9 | 11.2 | 12.0 |
| 77.5° | 147.3 | 39.9 | 11.2 | 5.8 | 4.7 | 3.9 | 3.5 | 6.2 | 8.5 | 10.9 | 11.2 |
| 80° | 58.5 | 19.8 | 8.9 | 5.0 | 4.3 | 3.5 | 3.1 | 5.8 | 8.1 | 10.5 | 10.9 |
| 82.5° | 35.3 | 11.2 | 7.4 | 4.7 | 4.3 | 3.1 | 2.7 | 5.0 | 7.8 | 10.1 | 10.5 |
| 85° | 28.7 | 7.8 | 5.8 | 4.7 | 3.9 | 3.1 | 2.3 | 4.7 | 7.0 | 9.7 | 10.1 |
| 87.5° | 14.0 | 5.4 | 5.4 | 4.3 | 3.9 | 3.1 | 2.3 | 4.3 | 6.6 | 9.3 | 9.7 |
| 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)