

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: P266667

Luminaire Tested: **GAN-AF-02-LED-U-SL2-7027-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266667
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
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-SL2-7027-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8374 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 85
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

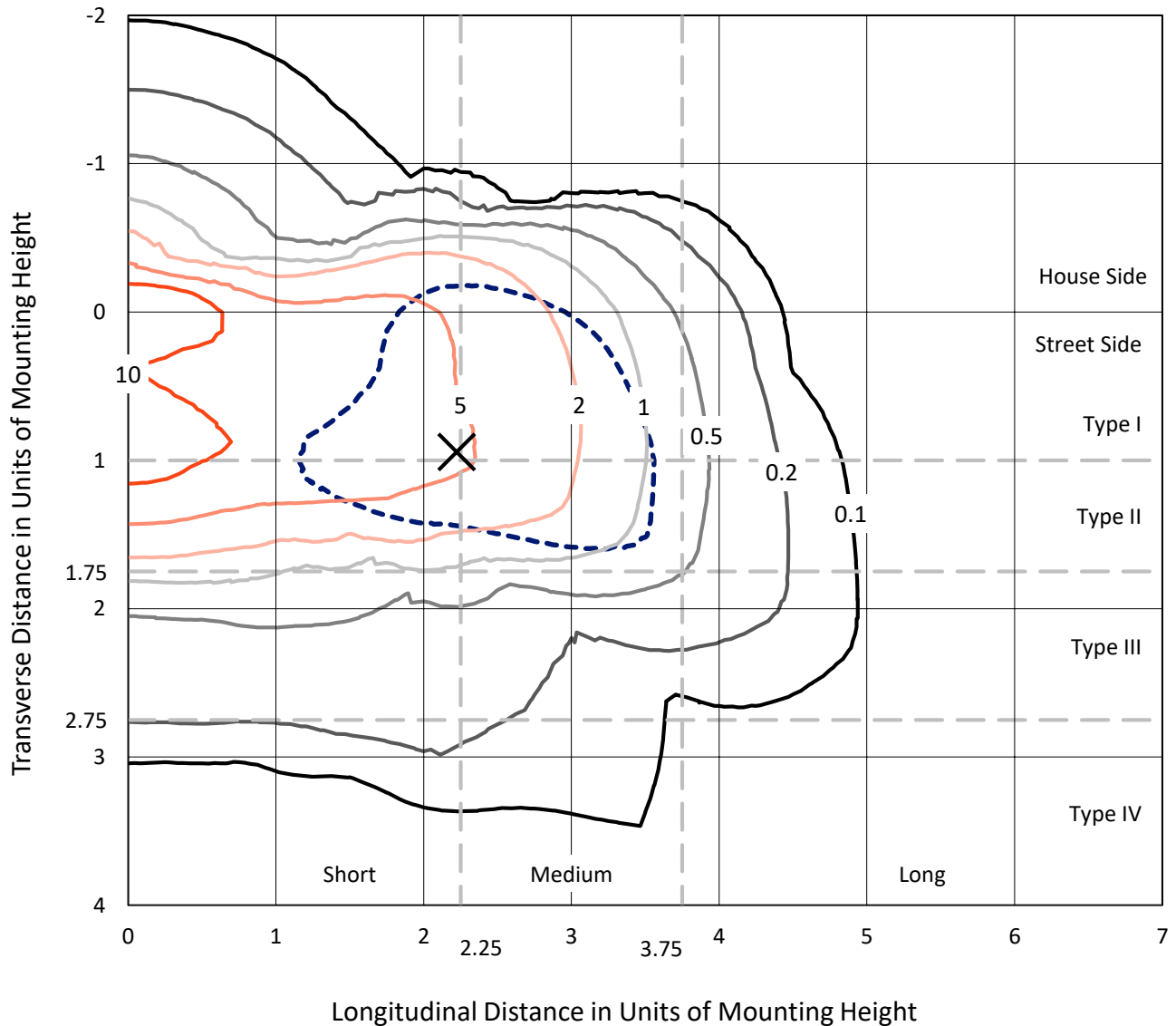


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

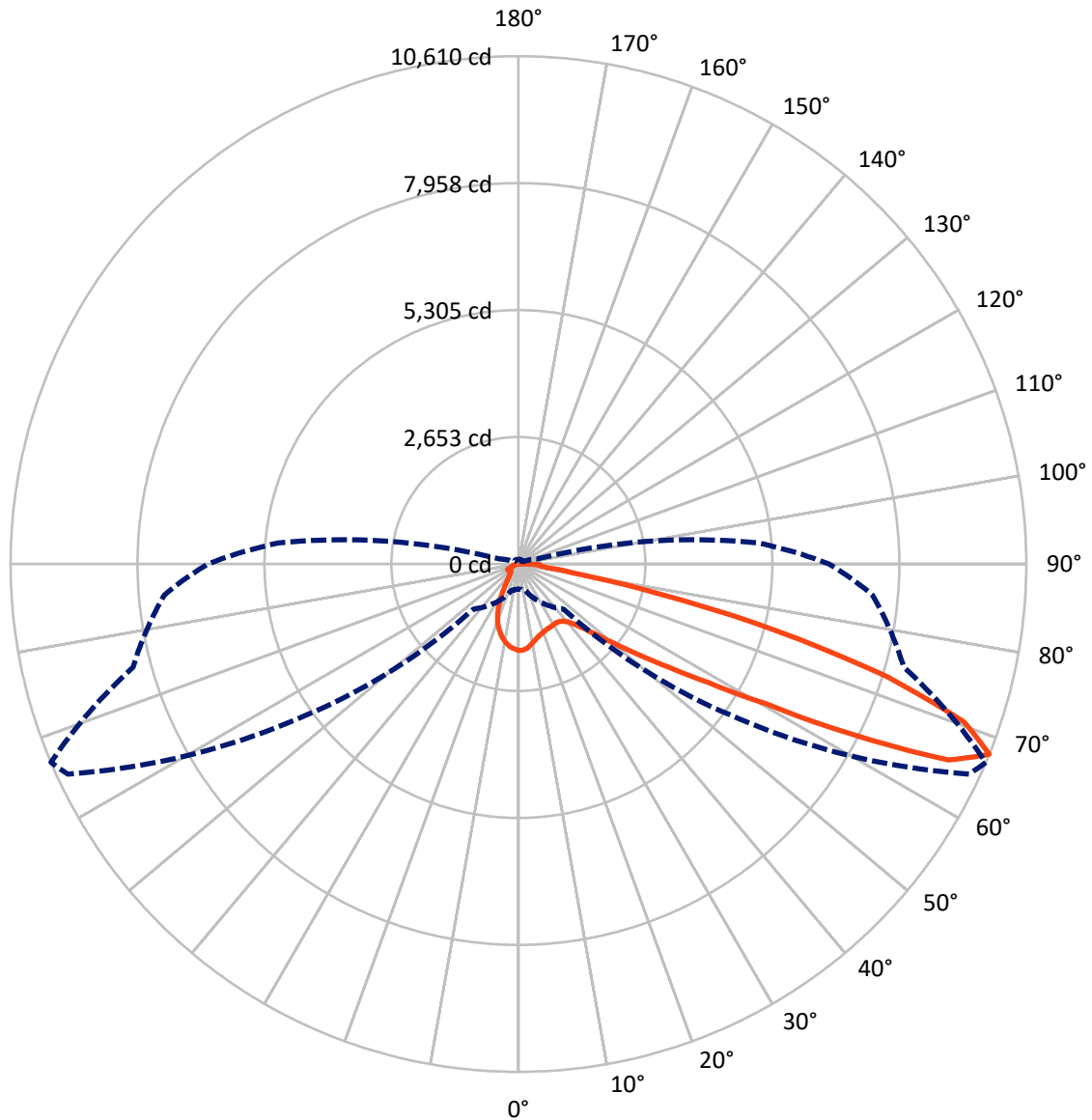


Based on 10 foot mounting height. Maximum calculated value = 18.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1387.5 | 0.0 | 1387.5 |
| | % Fixture | 16.6 | 0.0 | 16.6 |
| Street Side | Lumens | 6986.5 | 0.0 | 6986.5 |
| | % Fixture | 83.4 | 0.0 | 83.4 |
| Total | Lumens | 8374.0 | 0.0 | 8374.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 154.1 | 1.8 |
| 10°-20° | 356.6 | 4.3 |
| 20°-30° | 483.3 | 5.8 |
| 30°-40° | 687.1 | 8.2 |
| 40°-50° | 1149.5 | 13.7 |
| 50°-60° | 1818.6 | 21.7 |
| 60°-70° | 2316.7 | 27.7 |
| 70°-80° | 1213.5 | 14.5 |
| 80°-90° | 194.6 | 2.3 |
| 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° | 8374.0 | 100.0 |
| 0°-180° | 8374.0 | 100.0 |

Coefficient of Utilization



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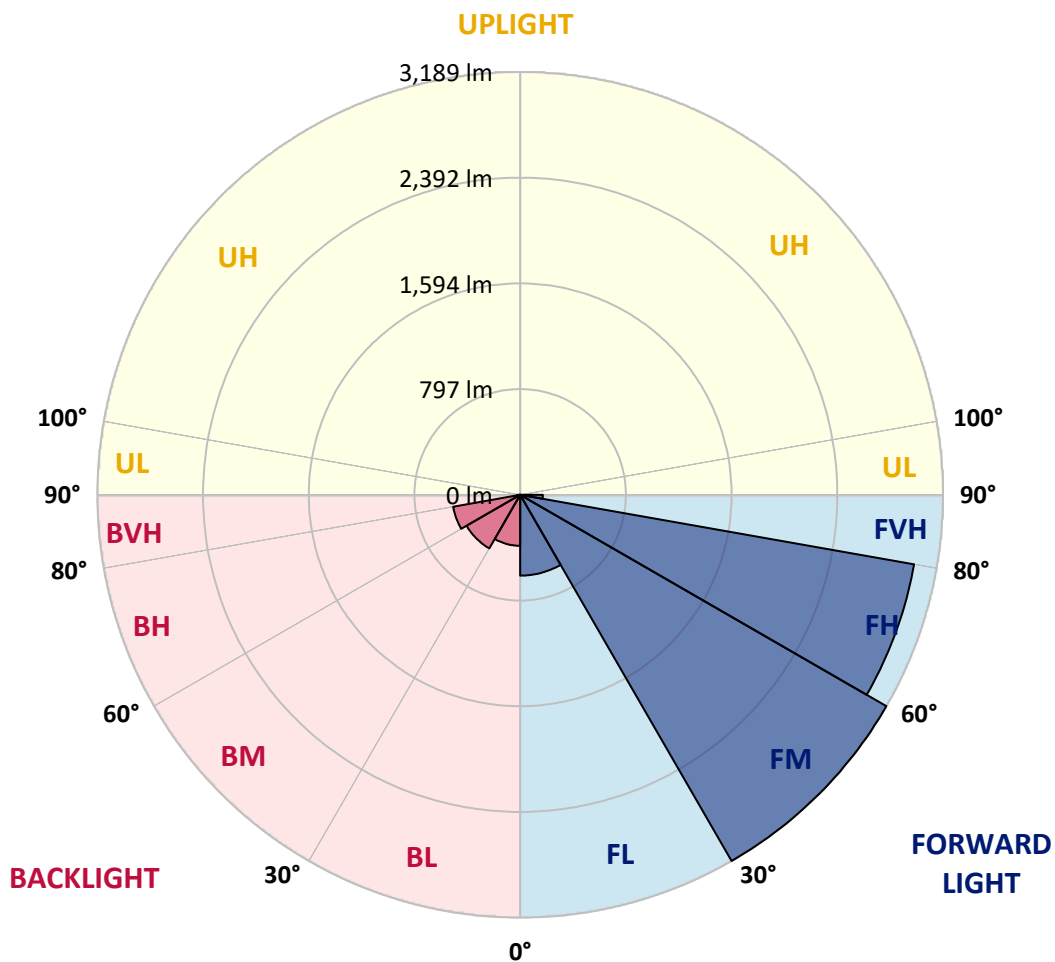
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 609.4 | 7.3 | | | |
| FM (30°-60°) | 3189.0 | 38.1 | | | |
| FH (60°-80°) | 3017.0 | 36.0 | | | G2/5000 |
| FVH (80°-90°) | 171.1 | 2.0 | | | G2/225 |
| BL (0°-30°) | 384.6 | 4.6 | B1/500 | | |
| BM (30°-60°) | 466.2 | 5.6 | B1/1000 | | |
| BH (60°-80°) | 513.2 | 6.1 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 23.5 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 67° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|--------|--------|
| 0° | 1806.2 | 1806.2 | 1806.2 | 1806.2 | 1806.2 | 1806.2 | 1806.2 | 1806.2 | 1806.2 | 1806.2 | 1806.2 |
| 2.5° | 1731.9 | 1734.7 | 1743.9 | 1749.7 | 1775.7 | 1786.9 | 1794.8 | 1802.4 | 1803.7 | 1807.5 | 1803.7 |
| 5° | 1550.2 | 1556.5 | 1573.3 | 1592.3 | 1642.7 | 1682.3 | 1724.0 | 1767.4 | 1775.3 | 1803.3 | 1811.3 |
| 7.5° | 1409.4 | 1407.7 | 1421.7 | 1444.6 | 1496.1 | 1551.1 | 1624.1 | 1710.5 | 1727.4 | 1790.5 | 1821.1 |
| 10° | 1306.6 | 1305.3 | 1320.1 | 1343.8 | 1392.9 | 1445.0 | 1527.5 | 1645.7 | 1669.6 | 1770.3 | 1830.7 |
| 12.5° | 1230.6 | 1230.9 | 1245.9 | 1271.9 | 1321.9 | 1374.2 | 1458.0 | 1582.9 | 1613.4 | 1746.8 | 1840.5 |
| 15° | 1180.3 | 1183.5 | 1195.6 | 1223.1 | 1271.9 | 1324.3 | 1406.6 | 1535.7 | 1570.1 | 1728.2 | 1851.6 |
| 17.5° | 1163.2 | 1168.7 | 1172.7 | 1192.9 | 1234.7 | 1287.2 | 1367.7 | 1501.1 | 1537.4 | 1715.5 | 1861.6 |
| 20° | 1178.9 | 1185.1 | 1177.3 | 1184.3 | 1210.7 | 1257.0 | 1337.1 | 1473.8 | 1510.9 | 1700.9 | 1862.8 |
| 22.5° | 1246.3 | 1252.1 | 1228.9 | 1208.7 | 1207.1 | 1235.1 | 1312.0 | 1452.4 | 1490.7 | 1690.3 | 1863.3 |
| 25° | 1364.9 | 1368.5 | 1329.8 | 1282.6 | 1236.7 | 1227.3 | 1294.2 | 1437.5 | 1478.4 | 1680.6 | 1855.4 |
| 27.5° | 1510.2 | 1513.0 | 1468.5 | 1399.1 | 1307.0 | 1245.9 | 1288.0 | 1428.8 | 1471.3 | 1672.5 | 1842.2 |
| 30° | 1686.8 | 1700.5 | 1640.7 | 1553.1 | 1419.0 | 1300.7 | 1300.3 | 1424.3 | 1463.5 | 1658.5 | 1816.2 |
| 32.5° | 1867.8 | 1873.5 | 1832.3 | 1743.5 | 1569.6 | 1397.5 | 1335.2 | 1427.5 | 1461.5 | 1641.6 | 1783.1 |
| 35° | 2051.1 | 2058.6 | 2031.7 | 1960.3 | 1775.7 | 1539.1 | 1402.9 | 1447.0 | 1474.3 | 1635.8 | 1760.0 |
| 37.5° | 2288.6 | 2298.6 | 2261.4 | 2178.7 | 2026.3 | 1731.2 | 1515.5 | 1495.7 | 1513.5 | 1652.3 | 1753.0 |
| 40° | 2664.0 | 2659.4 | 2550.7 | 2427.8 | 2300.6 | 1976.8 | 1676.5 | 1578.3 | 1588.7 | 1705.5 | 1774.4 |
| 42.5° | 3100.9 | 3089.7 | 2902.7 | 2709.4 | 2602.0 | 2274.1 | 1889.7 | 1721.6 | 1719.5 | 1810.4 | 1850.0 |
| 45° | 3449.4 | 3440.2 | 3271.7 | 3033.5 | 2947.7 | 2612.7 | 2165.2 | 1935.0 | 1919.8 | 1976.8 | 1989.6 |
| 47.5° | 3638.0 | 3638.6 | 3541.5 | 3346.9 | 3344.8 | 3043.1 | 2518.9 | 2244.0 | 2217.6 | 2244.3 | 2230.9 |
| 50° | 3572.0 | 3580.7 | 3570.4 | 3508.4 | 3707.5 | 3607.1 | 2981.0 | 2674.8 | 2621.4 | 2647.8 | 2595.5 |
| 52.5° | 3252.5 | 3263.5 | 3324.6 | 3419.7 | 3859.8 | 4288.9 | 3660.0 | 3209.9 | 3147.9 | 3138.4 | 3080.2 |
| 55° | 2685.8 | 2699.4 | 2824.2 | 3082.3 | 3733.0 | 4746.9 | 4731.3 | 3892.0 | 3793.4 | 3703.7 | 3679.0 |
| 57.5° | 1851.2 | 1874.0 | 2074.6 | 2457.9 | 3323.0 | 4885.3 | 6006.7 | 4864.6 | 4663.9 | 4350.9 | 4356.6 |
| 60° | 1043.6 | 1069.9 | 1306.6 | 1654.7 | 2495.5 | 4734.8 | 6977.2 | 6337.5 | 5913.9 | 5108.7 | 5151.6 |
| 62.5° | 663.6 | 692.1 | 871.7 | 1149.7 | 1497.4 | 3925.6 | 7374.9 | 8385.4 | 7847.4 | 6042.7 | 6084.8 |
| 65° | 537.2 | 549.7 | 634.4 | 949.0 | 1087.3 | 2365.0 | 7073.1 | 10072.3 | 9871.7 | 7228.3 | 7031.8 |
| 67.5° | 524.4 | 528.7 | 572.4 | 796.5 | 1042.8 | 1329.3 | 5641.7 | 10387.8 | 10610.4 | 8335.5 | 7426.1 |
| 70° | 518.2 | 532.8 | 645.1 | 760.2 | 998.6 | 1121.2 | 3390.4 | 9523.1 | 9874.4 | 8624.8 | 6901.3 |
| 72.5° | 251.4 | 250.6 | 324.6 | 687.6 | 1124.9 | 1162.9 | 1741.9 | 7705.3 | 8057.9 | 7472.5 | 5671.1 |
| 75° | 202.7 | 185.4 | 177.1 | 252.0 | 1081.5 | 1200.9 | 1110.0 | 5301.8 | 5557.1 | 5009.9 | 3486.1 |
| 77.5° | 192.4 | 171.8 | 157.4 | 157.7 | 457.1 | 1273.5 | 940.3 | 2934.5 | 3008.8 | 2263.0 | 955.2 |
| 80° | 159.4 | 140.4 | 130.1 | 146.7 | 221.3 | 1212.8 | 1016.7 | 1328.1 | 1218.6 | 555.8 | 318.0 |
| 82.5° | 110.8 | 100.8 | 97.8 | 123.1 | 177.1 | 864.3 | 1182.3 | 713.6 | 598.5 | 278.4 | 196.2 |
| 85° | 70.5 | 60.2 | 67.0 | 89.7 | 137.9 | 398.8 | 1217.8 | 556.2 | 442.2 | 176.7 | 110.8 |
| 87.5° | 32.6 | 26.4 | 33.1 | 49.5 | 90.0 | 137.5 | 1158.8 | 624.9 | 455.5 | 93.3 | 69.8 |
| 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° | 1806.2 | 1806.2 | 1806.2 | 1806.2 | 1806.2 | 1806.2 | 1806.2 | 1806.2 | 1806.2 | 1806.2 | 1806.2 |
| 2.5° | 1807.1 | 1799.2 | 1793.0 | 1781.5 | 1768.7 | 1756.2 | 1745.1 | 1731.2 | 1726.9 | 1723.3 | 1729.1 |
| 5° | 1812.9 | 1805.1 | 1782.2 | 1746.8 | 1707.6 | 1670.8 | 1634.0 | 1602.7 | 1583.3 | 1572.6 | 1578.7 |
| 7.5° | 1821.6 | 1810.4 | 1763.4 | 1698.1 | 1627.4 | 1563.1 | 1496.5 | 1443.2 | 1404.1 | 1385.5 | 1390.8 |
| 10° | 1829.4 | 1807.8 | 1731.2 | 1633.2 | 1530.1 | 1434.1 | 1329.3 | 1242.5 | 1178.1 | 1144.4 | 1152.5 |
| 12.5° | 1832.7 | 1798.3 | 1686.1 | 1552.4 | 1410.7 | 1270.3 | 1115.8 | 986.1 | 893.6 | 859.8 | 852.8 |
| 15° | 1836.0 | 1787.6 | 1636.5 | 1460.1 | 1266.5 | 1067.8 | 851.6 | 696.2 | 619.4 | 602.6 | 598.8 |
| 17.5° | 1836.9 | 1769.1 | 1580.4 | 1360.3 | 1097.5 | 827.1 | 582.2 | 483.6 | 483.9 | 511.2 | 514.5 |
| 20° | 1828.1 | 1741.5 | 1512.2 | 1236.0 | 895.3 | 572.0 | 399.7 | 382.8 | 445.2 | 513.3 | 521.6 |
| 22.5° | 1808.3 | 1704.7 | 1435.0 | 1091.0 | 663.6 | 376.6 | 309.2 | 327.9 | 408.4 | 491.8 | 501.3 |
| 25° | 1783.1 | 1660.1 | 1343.8 | 923.0 | 439.5 | 269.2 | 259.3 | 282.1 | 336.5 | 392.3 | 397.7 |
| 27.5° | 1748.8 | 1607.2 | 1241.4 | 730.5 | 285.3 | 221.7 | 228.3 | 243.6 | 266.0 | 290.7 | 293.1 |
| 30° | 1704.7 | 1544.0 | 1132.0 | 532.8 | 215.6 | 199.5 | 208.9 | 217.2 | 226.7 | 240.7 | 242.1 |
| 32.5° | 1653.9 | 1483.3 | 1019.5 | 367.9 | 191.2 | 187.8 | 195.3 | 199.5 | 206.9 | 215.6 | 216.4 |
| 35° | 1611.3 | 1425.5 | 903.2 | 260.1 | 180.9 | 179.2 | 184.2 | 185.8 | 192.9 | 202.4 | 203.1 |
| 37.5° | 1586.9 | 1378.4 | 783.0 | 209.8 | 173.8 | 171.3 | 174.4 | 174.4 | 184.2 | 198.3 | 200.3 |
| 40° | 1588.7 | 1352.4 | 662.8 | 189.5 | 168.1 | 164.7 | 165.2 | 165.2 | 178.0 | 193.2 | 194.6 |
| 42.5° | 1633.7 | 1359.0 | 556.2 | 181.6 | 163.5 | 159.8 | 157.7 | 159.0 | 169.7 | 179.7 | 180.5 |
| 45° | 1739.4 | 1405.7 | 456.2 | 176.7 | 159.0 | 157.7 | 153.3 | 152.8 | 156.9 | 161.4 | 161.4 |
| 47.5° | 1912.9 | 1497.7 | 388.5 | 173.5 | 155.2 | 154.9 | 149.5 | 144.1 | 143.6 | 145.3 | 145.3 |
| 50° | 2194.9 | 1656.4 | 343.2 | 169.7 | 152.8 | 149.5 | 143.3 | 135.0 | 132.1 | 133.4 | 133.4 |
| 52.5° | 2617.8 | 1939.3 | 325.8 | 164.7 | 147.4 | 142.0 | 135.0 | 126.8 | 124.2 | 124.8 | 124.8 |
| 55° | 3172.4 | 2373.6 | 323.3 | 159.0 | 141.7 | 132.9 | 127.2 | 121.0 | 118.0 | 118.9 | 118.9 |
| 57.5° | 3850.0 | 2974.5 | 367.5 | 149.8 | 133.8 | 123.8 | 120.6 | 116.4 | 114.4 | 115.6 | 115.3 |
| 60° | 4673.8 | 3760.8 | 545.1 | 140.4 | 125.9 | 115.6 | 115.6 | 112.3 | 110.8 | 111.8 | 111.5 |
| 62.5° | 5622.8 | 4663.9 | 766.4 | 133.4 | 117.7 | 109.1 | 110.8 | 109.1 | 107.3 | 108.2 | 107.7 |
| 65° | 6464.4 | 5252.3 | 717.7 | 128.0 | 109.5 | 102.9 | 105.7 | 104.9 | 103.7 | 104.5 | 104.1 |
| 67.5° | 6488.6 | 5034.3 | 403.0 | 122.2 | 101.6 | 96.7 | 100.8 | 100.3 | 99.5 | 100.3 | 99.9 |
| 70° | 5790.8 | 4250.9 | 227.1 | 111.5 | 93.3 | 89.2 | 95.0 | 94.6 | 93.8 | 95.4 | 95.0 |
| 72.5° | 4639.6 | 3084.8 | 165.9 | 98.3 | 85.1 | 81.3 | 87.9 | 87.6 | 87.6 | 90.0 | 88.8 |
| 75° | 2669.8 | 1587.3 | 132.6 | 84.3 | 76.4 | 73.5 | 79.3 | 79.7 | 80.5 | 83.8 | 81.3 |
| 77.5° | 761.0 | 494.7 | 108.2 | 71.4 | 65.7 | 64.4 | 70.2 | 71.1 | 71.4 | 75.2 | 71.9 |
| 80° | 282.8 | 228.0 | 89.2 | 59.8 | 53.7 | 54.1 | 59.5 | 60.6 | 61.2 | 64.9 | 60.6 |
| 82.5° | 180.5 | 150.3 | 72.3 | 46.3 | 42.1 | 41.7 | 48.2 | 49.9 | 49.9 | 50.3 | 47.9 |
| 85° | 105.3 | 90.0 | 54.4 | 33.4 | 29.7 | 28.4 | 35.9 | 38.7 | 37.5 | 36.7 | 35.2 |
| 87.5° | 70.5 | 62.0 | 33.4 | 18.5 | 16.1 | 15.4 | 21.1 | 23.1 | 22.3 | 21.1 | 19.9 |
| 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)