

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: P268281

Luminaire Tested: **GAN-AF-02-LED-U-SL4-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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-SL4-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10054.3 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 113
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

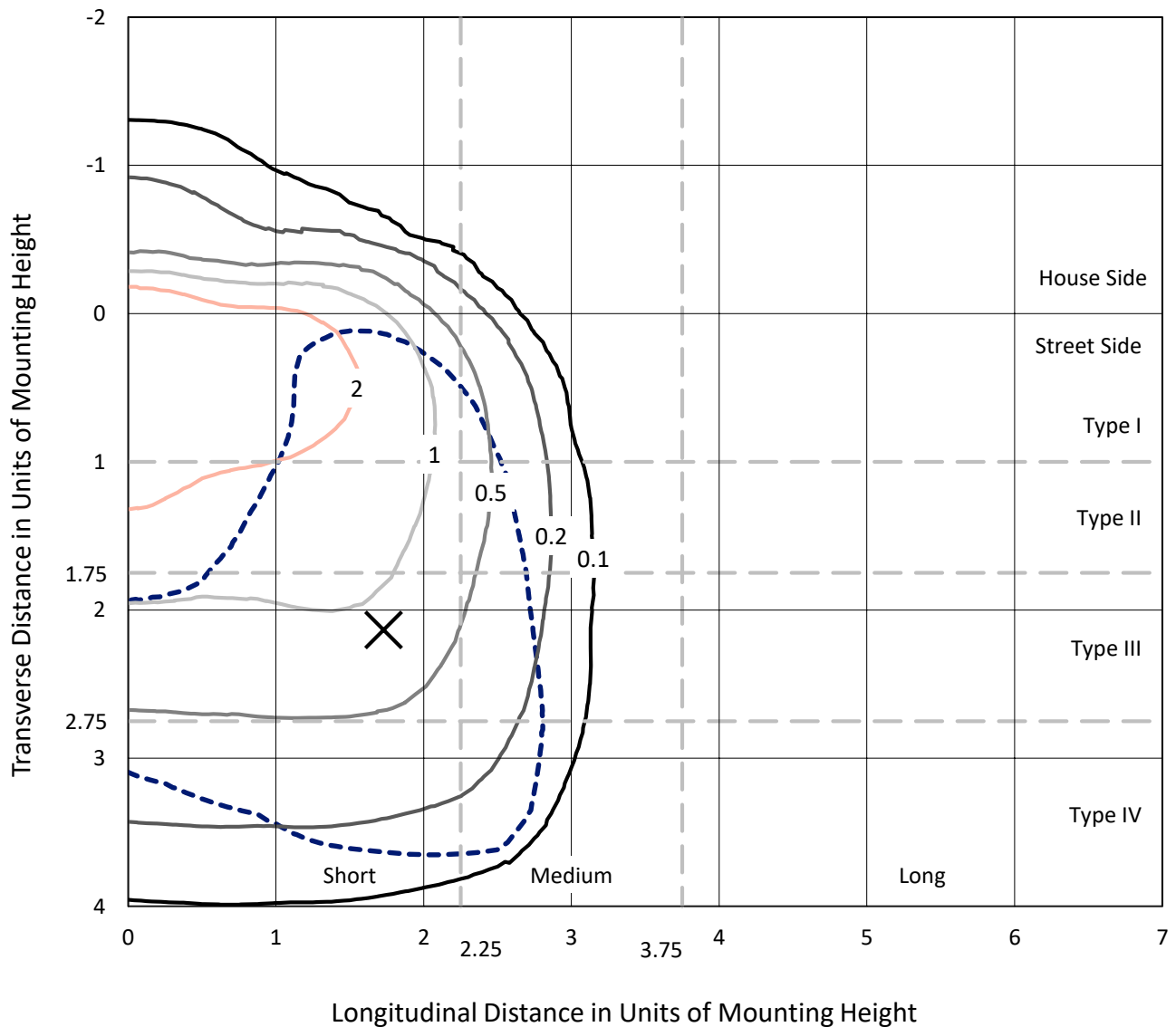


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

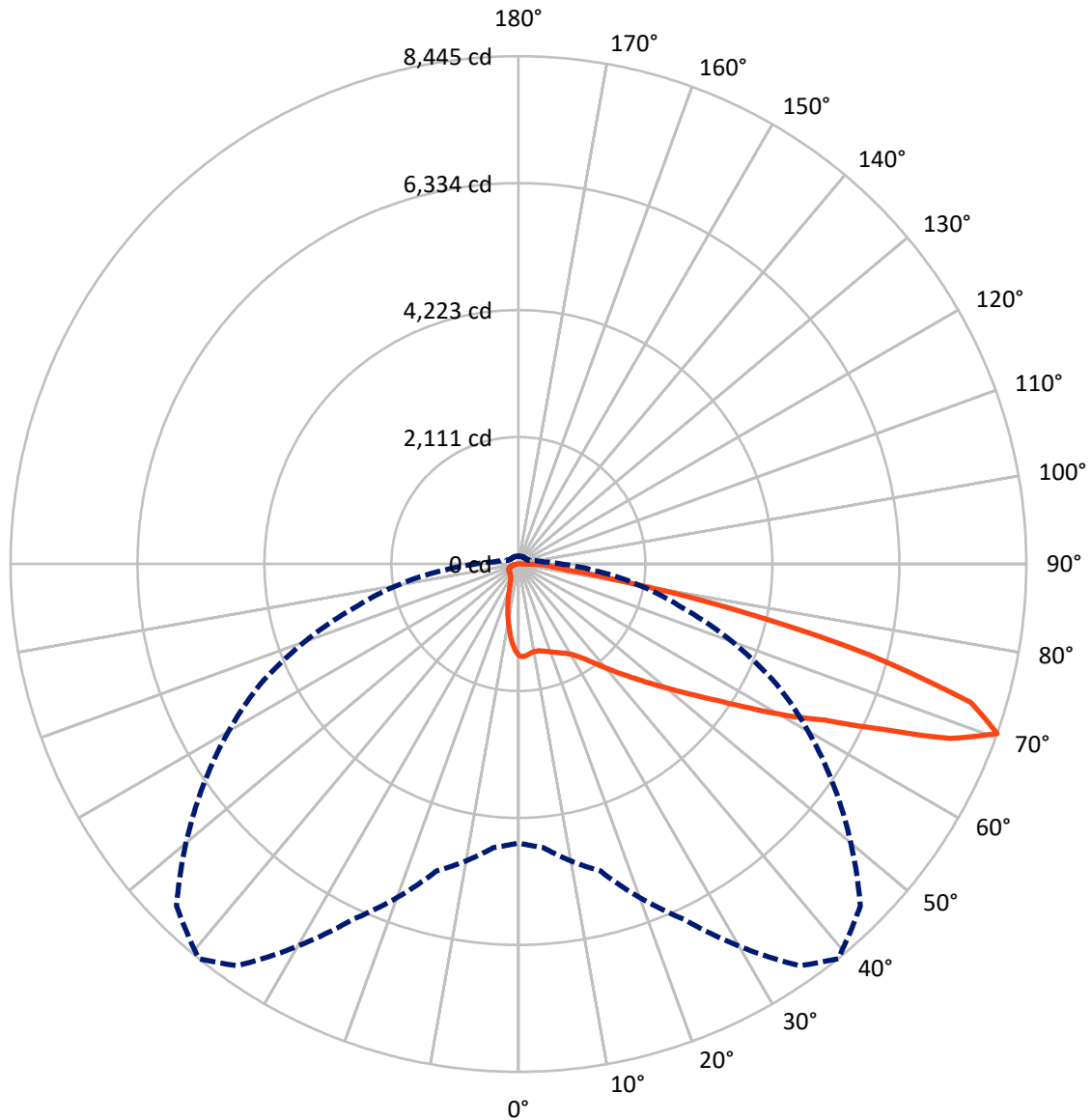


Based on 20 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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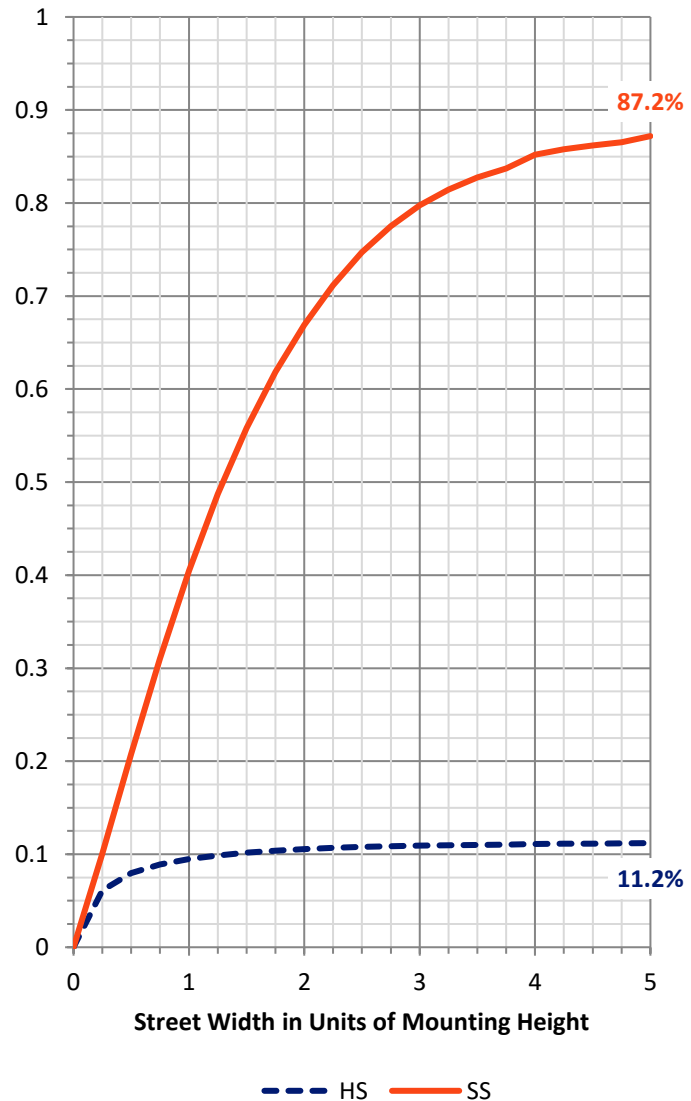
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1143.5 | 0.0 | 1143.5 |
| | % Fixture | 11.4 | 0.0 | 11.4 |
| Street Side | Lumens | 8910.8 | 0.0 | 8910.8 |
| | % Fixture | 88.6 | 0.0 | 88.6 |
| Total | Lumens | 10054.3 | 0.0 | 10054.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 131.0 | 1.3 |
| 10°-20° | 327.4 | 3.3 |
| 20°-30° | 509.8 | 5.1 |
| 30°-40° | 794.2 | 7.9 |
| 40°-50° | 1333.4 | 13.3 |
| 50°-60° | 2118.1 | 21.1 |
| 60°-70° | 2825.4 | 28.1 |
| 70°-80° | 1706.2 | 17.0 |
| 80°-90° | 308.8 | 3.1 |
| 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° | 10054.3 | 100.0 |
| 0°-180° | 10054.3 | 100.0 |



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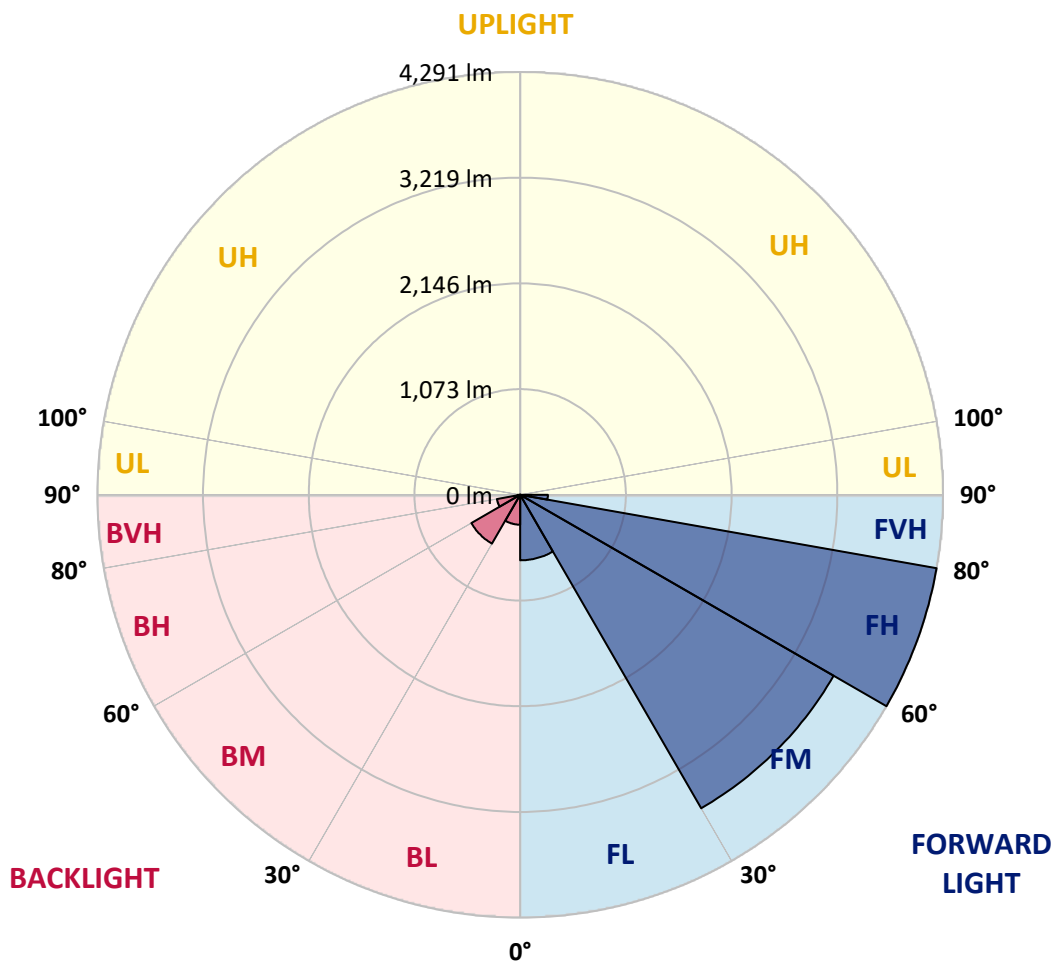
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 664.9 | 6.6 | | | |
| FM | (30°-60°) | 3673.5 | 36.5 | | | |
| FH | (60°-80°) | 4291.5 | 42.7 | | | G2/5000 |
| FVH | (80°-90°) | 281.0 | 2.8 | | | G3/500 |
| BL | (0°-30°) | 303.4 | 3.0 | B1/500 | | |
| BM | (30°-60°) | 572.3 | 5.7 | B1/1000 | | |
| BH | (60°-80°) | 240.1 | 2.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 27.8 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1526.4 | 1526.4 | 1526.4 | 1526.4 | 1526.4 | 1526.4 | 1526.4 | 1526.4 | 1526.4 | 1526.4 | 1526.4 |
| 2.5° | 1556.0 | 1555.5 | 1551.5 | 1548.4 | 1545.9 | 1544.7 | 1546.8 | 1539.2 | 1532.5 | 1524.3 | 1515.7 |
| 5° | 1544.2 | 1543.7 | 1537.1 | 1531.0 | 1524.9 | 1522.8 | 1522.3 | 1508.6 | 1500.3 | 1488.0 | 1471.8 |
| 7.5° | 1531.5 | 1528.9 | 1520.2 | 1510.1 | 1499.4 | 1494.2 | 1489.1 | 1471.2 | 1462.0 | 1449.8 | 1430.8 |
| 10° | 1518.2 | 1515.1 | 1506.9 | 1496.8 | 1486.5 | 1478.9 | 1470.2 | 1452.7 | 1443.0 | 1433.9 | 1411.9 |
| 12.5° | 1504.4 | 1501.8 | 1499.8 | 1495.1 | 1488.0 | 1481.5 | 1474.7 | 1459.9 | 1449.8 | 1438.9 | 1413.5 |
| 15° | 1502.3 | 1501.3 | 1506.0 | 1509.1 | 1504.9 | 1500.9 | 1493.7 | 1480.9 | 1470.2 | 1459.4 | 1426.1 |
| 17.5° | 1518.8 | 1518.2 | 1530.0 | 1538.2 | 1536.1 | 1528.9 | 1519.3 | 1504.9 | 1496.2 | 1487.1 | 1445.6 |
| 20° | 1554.4 | 1557.0 | 1571.3 | 1582.2 | 1571.9 | 1561.7 | 1545.9 | 1526.0 | 1521.3 | 1517.1 | 1465.6 |
| 22.5° | 1622.0 | 1624.6 | 1634.7 | 1638.9 | 1612.3 | 1597.5 | 1575.4 | 1549.9 | 1546.8 | 1549.9 | 1489.6 |
| 25° | 1727.4 | 1724.7 | 1723.2 | 1707.9 | 1659.3 | 1636.4 | 1608.1 | 1581.6 | 1583.2 | 1596.9 | 1523.3 |
| 27.5° | 1866.9 | 1853.1 | 1831.6 | 1785.7 | 1708.3 | 1682.9 | 1648.6 | 1624.0 | 1633.7 | 1660.3 | 1573.9 |
| 30° | 2011.6 | 1996.2 | 1946.5 | 1871.4 | 1772.7 | 1744.7 | 1706.3 | 1678.8 | 1704.3 | 1746.2 | 1641.5 |
| 32.5° | 2145.4 | 2143.4 | 2070.9 | 1974.1 | 1861.7 | 1837.3 | 1798.9 | 1767.7 | 1809.0 | 1873.0 | 1742.6 |
| 35° | 2291.7 | 2296.2 | 2209.3 | 2093.3 | 1981.9 | 1956.2 | 1928.8 | 1905.1 | 1960.5 | 2048.3 | 1889.3 |
| 37.5° | 2448.2 | 2457.3 | 2354.5 | 2223.7 | 2118.8 | 2108.1 | 2091.8 | 2081.6 | 2166.9 | 2288.6 | 2094.3 |
| 40° | 2657.1 | 2647.9 | 2505.4 | 2370.8 | 2287.1 | 2286.5 | 2281.4 | 2293.7 | 2435.8 | 2602.4 | 2357.6 |
| 42.5° | 2881.0 | 2853.9 | 2665.4 | 2528.8 | 2471.5 | 2488.9 | 2499.2 | 2549.3 | 2759.4 | 2983.8 | 2678.6 |
| 45° | 3122.2 | 3061.6 | 2831.5 | 2696.1 | 2676.6 | 2713.4 | 2748.2 | 2857.0 | 3140.2 | 3417.8 | 3030.3 |
| 47.5° | 3315.0 | 3256.3 | 3003.3 | 2871.3 | 2913.7 | 2969.4 | 3036.5 | 3208.7 | 3566.5 | 3866.0 | 3377.4 |
| 50° | 3466.9 | 3428.6 | 3176.4 | 3075.7 | 3175.0 | 3260.8 | 3370.3 | 3607.0 | 4010.3 | 4302.6 | 3699.0 |
| 52.5° | 3614.2 | 3585.4 | 3351.3 | 3285.5 | 3481.7 | 3600.2 | 3749.0 | 4034.3 | 4465.1 | 4732.0 | 3969.3 |
| 55° | 3747.0 | 3726.4 | 3539.4 | 3546.6 | 3842.6 | 3997.0 | 4184.0 | 4520.9 | 4961.1 | 5114.9 | 4198.4 |
| 57.5° | 3896.8 | 3870.6 | 3754.1 | 3874.3 | 4306.3 | 4506.5 | 4750.0 | 5067.9 | 5426.2 | 5455.3 | 4372.7 |
| 60° | 4047.6 | 4025.0 | 3992.3 | 4252.5 | 4895.1 | 5105.6 | 5336.2 | 5598.0 | 5898.0 | 5719.7 | 4362.4 |
| 62.5° | 4178.5 | 4181.0 | 4238.7 | 4649.7 | 5471.8 | 5715.6 | 5996.7 | 6255.3 | 6324.8 | 5765.6 | 4039.9 |
| 65° | 4400.3 | 4440.6 | 4612.9 | 5212.1 | 6283.5 | 6609.5 | 6954.7 | 6913.3 | 6443.0 | 5335.8 | 3348.3 |
| 67.5° | 4664.1 | 4735.1 | 5084.2 | 5961.4 | 7309.4 | 7742.4 | 7875.8 | 7062.0 | 5970.1 | 4337.3 | 2386.7 |
| 70° | 4637.5 | 4735.1 | 5287.8 | 6520.2 | 8155.0 | 8445.2 | 8040.4 | 6391.4 | 4740.7 | 2833.6 | 1267.8 |
| 72.5° | 4118.1 | 4257.6 | 4873.1 | 6264.1 | 7888.6 | 7863.0 | 6980.2 | 4764.8 | 2816.6 | 1138.0 | 495.3 |
| 75° | 3138.7 | 3279.7 | 3809.4 | 4948.9 | 6235.0 | 6020.3 | 4952.9 | 2632.2 | 1069.0 | 451.8 | 312.3 |
| 77.5° | 1805.6 | 1914.8 | 2323.8 | 3035.0 | 3955.5 | 3735.2 | 2756.8 | 1170.6 | 520.4 | 314.9 | 243.8 |
| 80° | 1008.1 | 1069.0 | 1317.4 | 1539.7 | 1938.5 | 1776.8 | 1233.6 | 727.4 | 388.4 | 228.4 | 188.1 |
| 82.5° | 796.9 | 851.1 | 1065.3 | 971.2 | 885.4 | 816.9 | 708.6 | 647.7 | 310.3 | 144.2 | 112.5 |
| 85° | 696.2 | 747.8 | 901.7 | 764.7 | 604.6 | 554.7 | 575.6 | 637.4 | 241.3 | 86.9 | 96.1 |
| 87.5° | 645.2 | 714.2 | 803.5 | 589.4 | 470.8 | 417.2 | 531.1 | 698.8 | 77.8 | 54.2 | 38.8 |
| 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° | 1526.4 | 1526.4 | 1526.4 | 1526.4 | 1526.4 | 1526.4 | 1526.4 | 1526.4 | 1526.4 | 1526.4 | 1526.4 |
| 2.5° | 1508.0 | 1499.8 | 1486.5 | 1474.7 | 1456.3 | 1446.6 | 1435.9 | 1428.2 | 1422.0 | 1416.9 | 1425.3 |
| 5° | 1461.5 | 1446.1 | 1418.1 | 1387.9 | 1352.0 | 1323.9 | 1300.4 | 1278.5 | 1263.1 | 1253.0 | 1260.1 |
| 7.5° | 1417.5 | 1392.5 | 1348.4 | 1293.7 | 1232.5 | 1180.4 | 1137.3 | 1099.5 | 1073.5 | 1056.6 | 1063.2 |
| 10° | 1392.5 | 1361.3 | 1293.3 | 1207.4 | 1117.0 | 1035.7 | 968.3 | 910.0 | 869.5 | 846.6 | 850.1 |
| 12.5° | 1386.4 | 1345.9 | 1251.9 | 1133.8 | 1010.1 | 897.1 | 802.0 | 721.2 | 664.6 | 634.9 | 635.9 |
| 15° | 1390.9 | 1339.4 | 1213.0 | 1063.2 | 906.8 | 764.2 | 645.6 | 547.4 | 481.5 | 447.7 | 447.3 |
| 17.5° | 1398.7 | 1334.3 | 1172.2 | 987.1 | 802.0 | 636.4 | 503.9 | 407.9 | 349.6 | 322.5 | 320.5 |
| 20° | 1406.7 | 1326.0 | 1126.1 | 904.9 | 693.1 | 517.9 | 394.6 | 319.4 | 282.6 | 267.9 | 266.8 |
| 22.5° | 1418.6 | 1318.8 | 1078.7 | 817.8 | 586.4 | 421.8 | 324.6 | 274.1 | 254.6 | 246.9 | 245.9 |
| 25° | 1437.5 | 1315.3 | 1028.0 | 727.4 | 490.3 | 352.8 | 282.6 | 251.4 | 240.2 | 235.1 | 234.6 |
| 27.5° | 1469.2 | 1320.4 | 980.5 | 639.6 | 412.1 | 306.2 | 259.3 | 240.2 | 232.1 | 227.5 | 226.9 |
| 30° | 1510.1 | 1336.1 | 930.4 | 556.2 | 351.1 | 274.5 | 244.9 | 232.7 | 226.0 | 221.3 | 221.3 |
| 32.5° | 1578.1 | 1362.8 | 877.7 | 484.0 | 307.7 | 252.6 | 234.1 | 226.0 | 220.4 | 216.8 | 216.2 |
| 35° | 1678.3 | 1412.9 | 828.6 | 424.3 | 276.6 | 236.7 | 224.9 | 218.7 | 214.7 | 212.7 | 212.7 |
| 37.5° | 1823.9 | 1492.2 | 785.2 | 381.3 | 257.6 | 226.0 | 216.2 | 211.6 | 209.0 | 209.0 | 209.0 |
| 40° | 2019.7 | 1601.6 | 749.9 | 352.8 | 246.9 | 218.3 | 209.6 | 206.0 | 204.5 | 205.1 | 205.1 |
| 42.5° | 2261.6 | 1743.7 | 726.4 | 332.8 | 241.9 | 213.6 | 205.1 | 201.8 | 200.4 | 199.9 | 200.4 |
| 45° | 2537.1 | 1905.1 | 723.9 | 318.0 | 236.7 | 210.7 | 201.8 | 198.9 | 195.8 | 193.8 | 193.8 |
| 47.5° | 2804.9 | 2069.2 | 744.8 | 312.8 | 231.0 | 207.0 | 199.3 | 196.3 | 191.7 | 187.0 | 187.0 |
| 50° | 3041.5 | 2208.8 | 772.9 | 314.9 | 229.0 | 201.8 | 195.3 | 193.8 | 186.6 | 181.5 | 181.0 |
| 52.5° | 3229.6 | 2316.2 | 795.9 | 321.1 | 231.0 | 198.3 | 190.1 | 190.7 | 183.1 | 177.3 | 176.8 |
| 55° | 3380.4 | 2386.7 | 789.8 | 327.2 | 235.6 | 196.3 | 185.6 | 186.6 | 180.5 | 174.8 | 174.8 |
| 57.5° | 3446.3 | 2360.7 | 721.8 | 322.0 | 239.2 | 196.8 | 181.9 | 186.0 | 181.0 | 175.9 | 175.9 |
| 60° | 3304.9 | 2129.2 | 594.5 | 299.6 | 234.6 | 195.3 | 180.5 | 188.1 | 187.6 | 182.4 | 181.9 |
| 62.5° | 2876.5 | 1714.5 | 461.1 | 266.3 | 218.7 | 187.6 | 176.3 | 187.6 | 193.2 | 191.7 | 191.2 |
| 65° | 2216.9 | 1221.2 | 352.2 | 230.5 | 197.3 | 174.8 | 165.6 | 175.9 | 183.6 | 185.6 | 185.1 |
| 67.5° | 1438.9 | 748.4 | 271.5 | 196.8 | 173.4 | 160.0 | 151.9 | 156.5 | 157.9 | 157.9 | 156.9 |
| 70° | 707.4 | 402.8 | 216.2 | 165.6 | 148.8 | 144.2 | 139.5 | 137.0 | 134.4 | 132.4 | 132.4 |
| 72.5° | 349.1 | 263.3 | 177.9 | 140.0 | 128.3 | 126.2 | 125.3 | 122.2 | 120.2 | 117.6 | 116.5 |
| 75° | 258.2 | 214.2 | 151.4 | 118.0 | 110.4 | 108.3 | 110.4 | 107.8 | 107.3 | 105.3 | 104.3 |
| 77.5° | 212.1 | 182.4 | 130.3 | 101.1 | 94.6 | 91.0 | 94.1 | 94.6 | 95.1 | 91.9 | 91.0 |
| 80° | 172.2 | 154.4 | 108.9 | 83.8 | 77.8 | 75.2 | 77.2 | 81.2 | 82.4 | 77.8 | 75.6 |
| 82.5° | 124.2 | 126.2 | 87.9 | 65.4 | 60.4 | 58.3 | 62.3 | 67.5 | 68.5 | 61.9 | 60.4 |
| 85° | 104.3 | 105.3 | 67.5 | 46.5 | 41.4 | 38.4 | 44.9 | 50.0 | 53.7 | 47.0 | 45.5 |
| 87.5° | 43.5 | 61.9 | 38.8 | 26.1 | 22.9 | 19.9 | 24.1 | 26.6 | 32.2 | 29.6 | 29.1 |
| 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)