

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: P451534

Luminaire Tested: **GLAN-SA2B-830-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2B-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7480 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

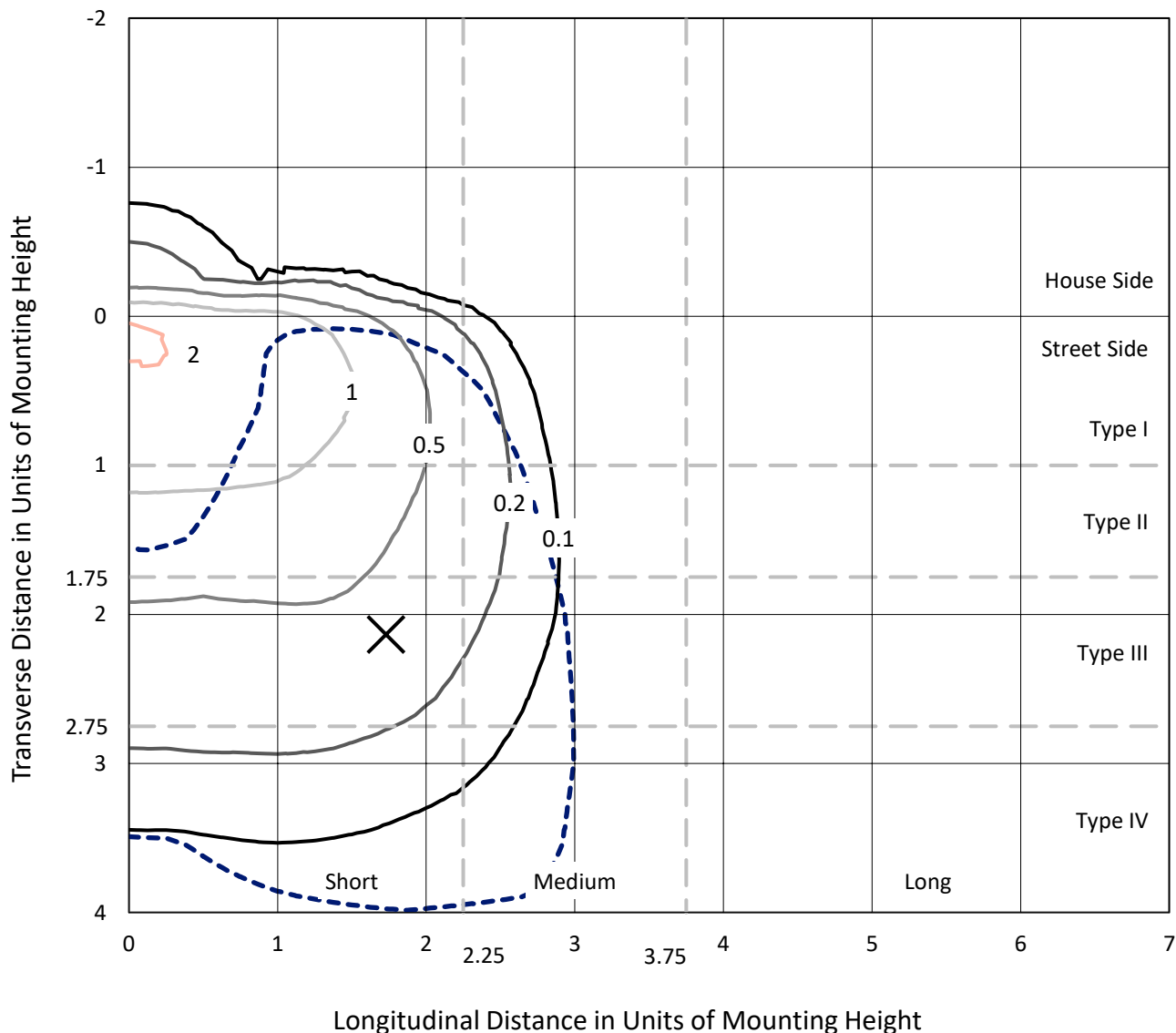
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

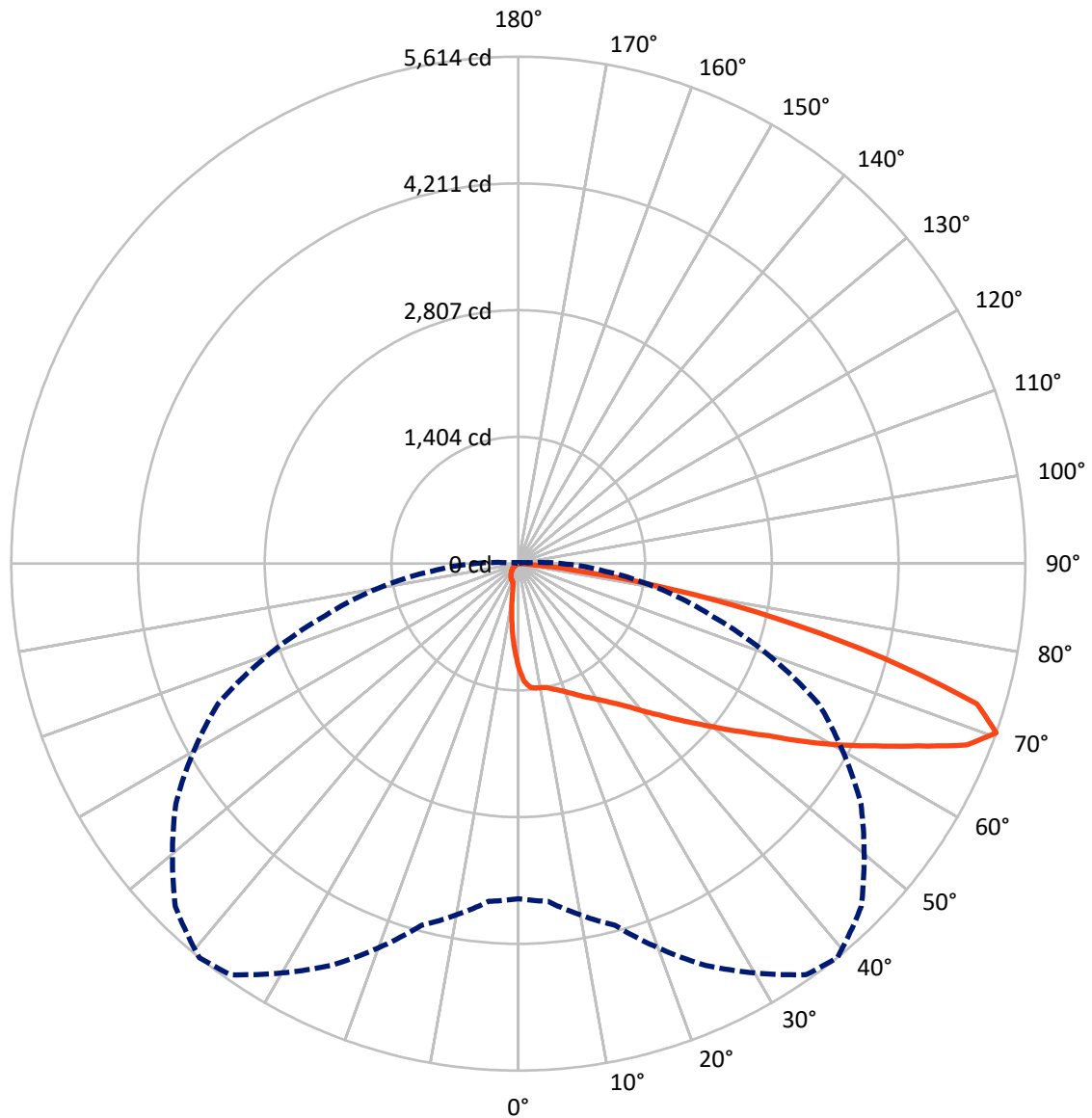
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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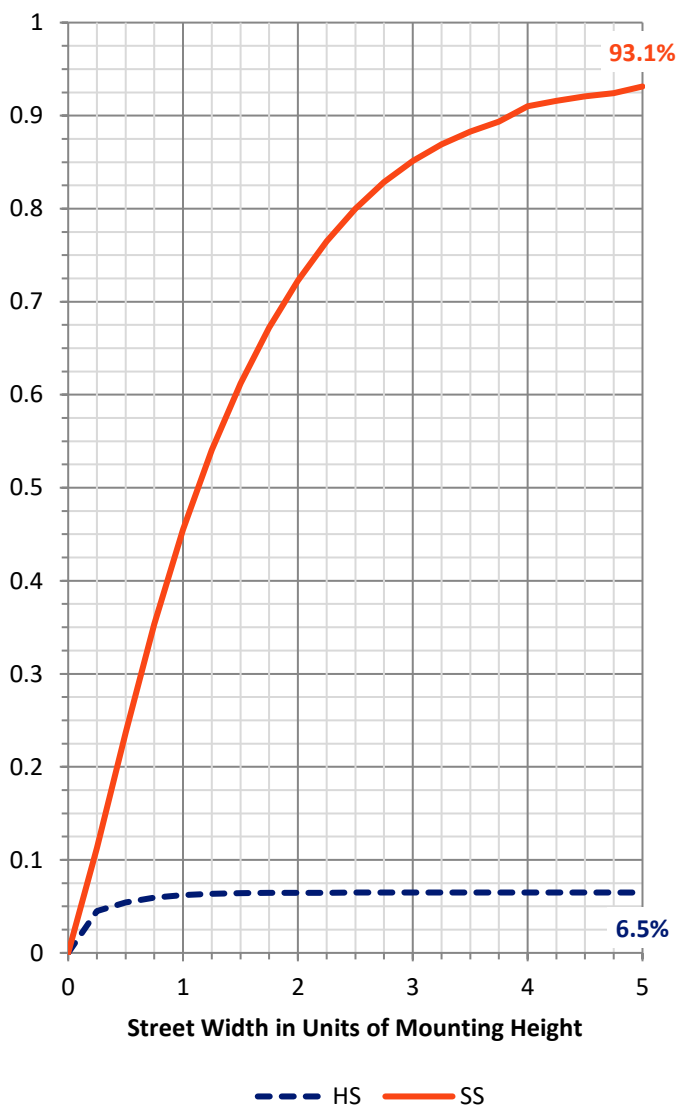
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 487.7 | 0.0 | 487.7 |
| | % Fixture | 6.5 | 0.0 | 6.5 |
| Street Side | Lumens | 6992.3 | 0.0 | 6992.3 |
| | % Fixture | 93.5 | 0.0 | 93.5 |
| Total | Lumens | 7480.0 | 0.0 | 7480.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 99.5 | 1.3 |
| 10°-20° | 258.7 | 3.5 |
| 20°-30° | 433.4 | 5.8 |
| 30°-40° | 672.1 | 9.0 |
| 40°-50° | 1065.1 | 14.2 |
| 50°-60° | 1561.3 | 20.9 |
| 60°-70° | 2001.2 | 26.8 |
| 70°-80° | 1257.5 | 16.8 |
| 80°-90° | 131.0 | 1.8 |
| 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° | 7480.0 | 100.0 |
| 0°-180° | 7480.0 | 100.0 |

Coefficient of Utilization



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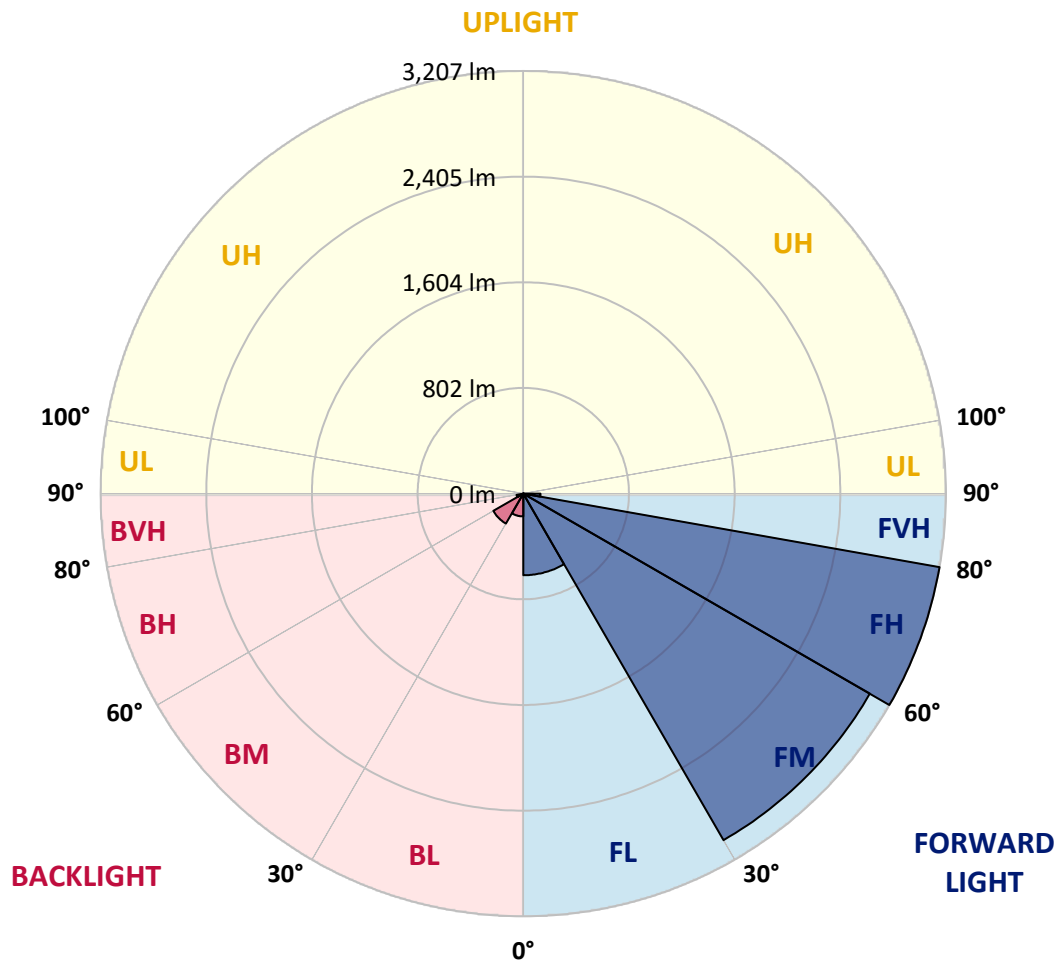
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 618.9 | 8.3 | | | |
| FM (30°-60°) | 3036.1 | 40.6 | | | |
| FH (60°-80°) | 3207.2 | 42.9 | | | G2/5000 |
| FVH (80°-90°) | 130.0 | 1.7 | | | G2/225 |
| BL (0°-30°) | 172.7 | 2.3 | B1/500 | | |
| BM (30°-60°) | 262.5 | 3.5 | B1/1000 | | |
| BH (60°-80°) | 51.6 | 0.7 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.0 | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1167.1 | 1167.1 | 1167.1 | 1167.1 | 1167.1 | 1167.1 | 1167.1 | 1167.1 | 1167.1 | 1167.1 | 1167.1 |
| 2.5° | 1348.6 | 1344.1 | 1338.0 | 1331.0 | 1310.9 | 1307.4 | 1295.3 | 1269.7 | 1239.0 | 1213.9 | 1179.2 |
| 5° | 1412.4 | 1414.9 | 1410.4 | 1397.8 | 1383.3 | 1374.7 | 1359.6 | 1319.9 | 1280.2 | 1229.5 | 1172.7 |
| 7.5° | 1427.0 | 1432.0 | 1426.5 | 1414.4 | 1400.4 | 1391.3 | 1379.3 | 1345.1 | 1298.8 | 1241.0 | 1163.1 |
| 10° | 1425.5 | 1431.5 | 1428.0 | 1417.0 | 1405.4 | 1396.8 | 1383.8 | 1356.6 | 1319.4 | 1258.6 | 1166.1 |
| 12.5° | 1423.0 | 1431.0 | 1430.5 | 1425.0 | 1415.4 | 1408.9 | 1400.9 | 1376.7 | 1342.1 | 1284.3 | 1182.7 |
| 15° | 1415.9 | 1426.0 | 1435.0 | 1439.6 | 1440.1 | 1440.1 | 1430.0 | 1404.4 | 1371.2 | 1317.9 | 1204.3 |
| 17.5° | 1419.0 | 1430.5 | 1453.1 | 1466.2 | 1475.3 | 1474.3 | 1463.7 | 1436.1 | 1399.4 | 1352.6 | 1227.0 |
| 20° | 1437.6 | 1453.1 | 1484.8 | 1510.9 | 1520.0 | 1517.0 | 1502.9 | 1470.7 | 1429.0 | 1382.3 | 1249.1 |
| 22.5° | 1483.3 | 1497.4 | 1537.1 | 1567.7 | 1574.3 | 1566.2 | 1546.1 | 1502.4 | 1464.7 | 1414.4 | 1275.7 |
| 25° | 1551.7 | 1568.2 | 1604.9 | 1628.1 | 1628.1 | 1623.5 | 1595.4 | 1544.1 | 1504.9 | 1459.2 | 1310.4 |
| 27.5° | 1634.6 | 1648.7 | 1684.9 | 1705.5 | 1693.4 | 1680.3 | 1652.2 | 1590.4 | 1552.7 | 1515.5 | 1352.1 |
| 30° | 1718.5 | 1727.6 | 1765.8 | 1774.8 | 1762.3 | 1745.7 | 1715.5 | 1653.7 | 1620.5 | 1591.9 | 1412.4 |
| 32.5° | 1798.0 | 1817.6 | 1849.2 | 1847.2 | 1830.1 | 1822.1 | 1794.4 | 1728.6 | 1710.0 | 1707.0 | 1496.9 |
| 35° | 1877.4 | 1892.5 | 1920.6 | 1927.6 | 1912.6 | 1911.0 | 1890.9 | 1842.2 | 1842.7 | 1862.3 | 1628.6 |
| 37.5° | 1945.7 | 1959.3 | 1992.5 | 2008.1 | 2011.1 | 2018.6 | 2010.6 | 1978.4 | 2024.1 | 2077.9 | 1803.0 |
| 40° | 2003.0 | 2022.1 | 2064.4 | 2091.5 | 2122.7 | 2150.3 | 2151.8 | 2158.9 | 2250.8 | 2343.3 | 2030.7 |
| 42.5° | 2047.8 | 2074.4 | 2135.7 | 2186.0 | 2257.4 | 2292.6 | 2320.7 | 2359.4 | 2514.2 | 2652.4 | 2299.1 |
| 45° | 2106.1 | 2136.7 | 2213.1 | 2292.1 | 2403.6 | 2461.4 | 2500.6 | 2604.2 | 2823.8 | 3012.3 | 2574.5 |
| 47.5° | 2202.6 | 2218.7 | 2296.6 | 2411.7 | 2558.5 | 2640.9 | 2717.3 | 2874.1 | 3156.1 | 3325.0 | 2803.7 |
| 50° | 2326.7 | 2337.3 | 2396.1 | 2555.9 | 2745.9 | 2854.5 | 2993.7 | 3178.2 | 3500.9 | 3584.3 | 2933.4 |
| 52.5° | 2464.0 | 2467.5 | 2511.7 | 2714.8 | 2956.0 | 3092.8 | 3248.6 | 3476.3 | 3781.9 | 3769.3 | 3019.4 |
| 55° | 2623.3 | 2618.3 | 2656.0 | 2887.2 | 3204.9 | 3361.2 | 3542.6 | 3781.4 | 4025.7 | 3900.5 | 3068.6 |
| 57.5° | 2805.8 | 2792.2 | 2828.9 | 3115.9 | 3523.5 | 3710.5 | 3895.0 | 4044.8 | 4214.7 | 4010.6 | 3092.3 |
| 60° | 2996.8 | 2969.6 | 3013.3 | 3372.7 | 3899.0 | 4076.4 | 4229.7 | 4270.0 | 4413.7 | 4098.0 | 3051.5 |
| 62.5° | 3149.1 | 3149.6 | 3231.0 | 3646.2 | 4285.0 | 4440.3 | 4521.8 | 4558.0 | 4585.1 | 4078.9 | 2837.4 |
| 65° | 3386.8 | 3394.8 | 3525.0 | 4025.7 | 4731.9 | 4866.6 | 4922.4 | 4804.8 | 4592.6 | 3841.7 | 2515.7 |
| 67.5° | 3632.1 | 3657.7 | 3896.0 | 4548.4 | 5248.1 | 5356.7 | 5284.8 | 4852.5 | 4387.6 | 3300.4 | 1907.5 |
| 70° | 3712.0 | 3754.2 | 4146.8 | 4908.3 | 5557.7 | 5614.0 | 5370.7 | 4629.8 | 3667.8 | 2206.6 | 960.0 |
| 72.5° | 3401.4 | 3469.7 | 4002.5 | 4777.1 | 5360.2 | 5311.4 | 4805.3 | 3882.9 | 2331.8 | 837.9 | 293.0 |
| 75° | 2398.6 | 2428.8 | 3326.5 | 3962.8 | 4311.2 | 4172.9 | 3655.2 | 2503.2 | 959.0 | 235.2 | 100.5 |
| 77.5° | 1238.5 | 1223.9 | 1978.4 | 2629.3 | 3074.7 | 2931.4 | 2393.6 | 1295.8 | 363.4 | 98.0 | 62.3 |
| 80° | 640.4 | 650.9 | 856.0 | 1377.7 | 1876.9 | 1727.1 | 1276.2 | 600.7 | 193.5 | 54.3 | 47.8 |
| 82.5° | 358.9 | 336.8 | 492.1 | 601.7 | 877.6 | 688.1 | 489.6 | 425.2 | 84.4 | 32.7 | 45.2 |
| 85° | 65.3 | 68.4 | 269.9 | 325.2 | 304.6 | 193.5 | 157.8 | 284.0 | 24.6 | 18.1 | 31.7 |
| 87.5° | 1.0 | 1.0 | 52.3 | 93.5 | 59.3 | 27.1 | 49.8 | 40.7 | 5.0 | 7.0 | 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° | 1167.1 | 1167.1 | 1167.1 | 1167.1 | 1167.1 | 1167.1 | 1167.1 | 1167.1 | 1167.1 | 1167.1 | 1167.1 |
| 2.5° | 1161.6 | 1142.5 | 1106.8 | 1071.6 | 1026.9 | 990.2 | 965.6 | 939.9 | 913.8 | 915.8 | 921.8 |
| 5° | 1141.5 | 1108.3 | 1038.0 | 963.6 | 892.2 | 827.9 | 764.5 | 707.7 | 684.6 | 663.5 | 664.5 |
| 7.5° | 1121.4 | 1074.7 | 971.6 | 855.0 | 746.9 | 637.4 | 557.9 | 492.6 | 457.9 | 431.8 | 424.2 |
| 10° | 1112.3 | 1050.5 | 910.8 | 750.4 | 597.1 | 477.5 | 375.5 | 322.2 | 281.0 | 267.9 | 271.4 |
| 12.5° | 1116.4 | 1038.5 | 856.0 | 655.9 | 473.5 | 332.7 | 261.4 | 234.2 | 225.2 | 223.7 | 222.7 |
| 15° | 1123.9 | 1029.9 | 802.2 | 551.4 | 347.8 | 247.3 | 219.7 | 214.6 | 213.6 | 212.6 | 213.1 |
| 17.5° | 1134.0 | 1022.4 | 744.9 | 453.4 | 266.9 | 216.1 | 208.1 | 205.6 | 205.1 | 205.1 | 205.1 |
| 20° | 1144.0 | 1013.8 | 681.1 | 365.9 | 222.7 | 204.1 | 199.0 | 197.5 | 197.0 | 197.0 | 196.5 |
| 22.5° | 1155.6 | 1006.3 | 616.2 | 287.5 | 205.1 | 195.5 | 191.0 | 190.0 | 189.5 | 189.0 | 189.0 |
| 25° | 1172.2 | 996.7 | 547.4 | 235.2 | 194.0 | 187.5 | 183.0 | 182.0 | 181.5 | 179.4 | 179.9 |
| 27.5° | 1194.3 | 989.7 | 476.5 | 203.1 | 184.0 | 177.4 | 174.4 | 172.9 | 171.9 | 170.4 | 170.9 |
| 30° | 1224.4 | 983.7 | 401.1 | 185.5 | 172.4 | 166.9 | 163.9 | 162.9 | 161.9 | 160.3 | 160.3 |
| 32.5° | 1276.7 | 986.2 | 321.7 | 171.4 | 161.9 | 155.3 | 152.3 | 151.3 | 150.3 | 148.8 | 148.8 |
| 35° | 1355.1 | 1000.8 | 257.4 | 159.3 | 149.3 | 142.8 | 139.7 | 139.7 | 138.2 | 136.2 | 135.7 |
| 37.5° | 1483.3 | 1038.0 | 206.6 | 147.8 | 137.2 | 131.2 | 127.7 | 126.7 | 125.2 | 122.1 | 121.6 |
| 40° | 1634.6 | 1095.8 | 173.9 | 136.2 | 126.2 | 120.1 | 117.1 | 114.1 | 110.1 | 107.1 | 106.6 |
| 42.5° | 1824.6 | 1155.1 | 150.8 | 124.7 | 115.6 | 110.1 | 106.6 | 101.5 | 95.5 | 91.5 | 91.0 |
| 45° | 2022.6 | 1209.4 | 135.2 | 114.1 | 105.6 | 101.0 | 97.0 | 89.0 | 81.4 | 76.4 | 75.9 |
| 47.5° | 2170.4 | 1219.4 | 122.6 | 104.0 | 97.0 | 92.5 | 87.0 | 76.9 | 66.9 | 62.3 | 60.8 |
| 50° | 2240.3 | 1170.7 | 109.6 | 94.0 | 88.5 | 83.4 | 76.4 | 64.8 | 53.8 | 48.3 | 47.2 |
| 52.5° | 2264.9 | 1086.2 | 99.0 | 84.9 | 79.9 | 73.9 | 65.3 | 52.3 | 42.2 | 36.7 | 36.2 |
| 55° | 2254.9 | 979.7 | 89.5 | 76.4 | 69.9 | 62.8 | 54.3 | 41.7 | 31.2 | 26.6 | 25.6 |
| 57.5° | 2202.1 | 843.9 | 79.9 | 67.9 | 59.8 | 52.8 | 43.2 | 31.2 | 21.1 | 17.1 | 16.6 |
| 60° | 2059.8 | 659.0 | 70.4 | 58.3 | 50.8 | 43.2 | 34.2 | 22.1 | 13.1 | 9.6 | 9.6 |
| 62.5° | 1819.6 | 489.1 | 61.3 | 48.8 | 42.7 | 34.7 | 24.1 | 14.1 | 7.0 | 5.0 | 4.5 |
| 65° | 1520.5 | 360.9 | 51.3 | 41.2 | 35.7 | 27.1 | 17.1 | 8.5 | 3.5 | 1.5 | 1.0 |
| 67.5° | 1061.1 | 222.7 | 42.7 | 33.7 | 29.2 | 19.6 | 10.6 | 3.5 | 1.5 | 0.0 | 0.0 |
| 70° | 482.0 | 106.1 | 32.7 | 25.6 | 22.1 | 14.1 | 5.5 | 2.0 | 1.0 | 0.0 | 0.0 |
| 72.5° | 149.8 | 55.8 | 23.1 | 18.6 | 15.1 | 9.0 | 3.0 | 1.5 | 1.0 | 0.0 | 0.0 |
| 75° | 69.4 | 35.7 | 14.6 | 10.1 | 8.5 | 4.5 | 2.0 | 1.0 | 0.5 | 0.0 | 0.0 |
| 77.5° | 51.8 | 27.6 | 8.5 | 5.5 | 4.5 | 3.0 | 1.5 | 1.0 | 0.5 | 0.0 | 0.0 |
| 80° | 45.2 | 14.1 | 5.0 | 3.5 | 2.5 | 2.0 | 1.0 | 0.5 | 0.0 | 0.0 | 0.0 |
| 82.5° | 40.7 | 7.0 | 3.0 | 2.0 | 1.5 | 1.0 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 |
| 85° | 22.1 | 4.0 | 2.0 | 1.5 | 1.0 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 4.0 | 2.0 | 1.5 | 1.0 | 1.0 | 0.5 | 0.5 | 0.5 | 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)