

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: P479089

Luminaire Tested: **IFLD-S-SA2C-830-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479089
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-830-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

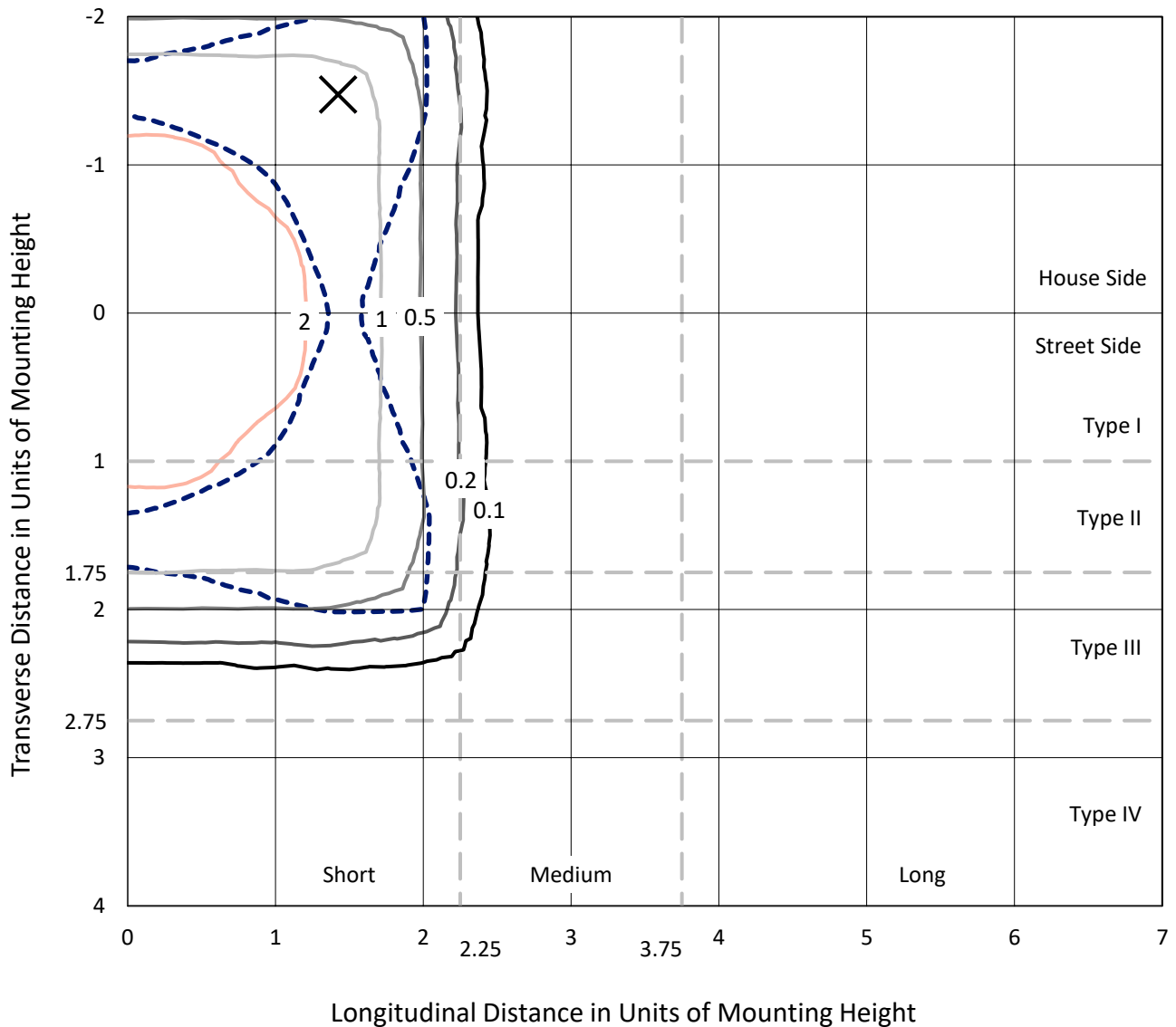
Lumens per Lamp: N/A
Luminaire Lumens: 11264.3 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 108.2
Input Voltage (V): 120
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

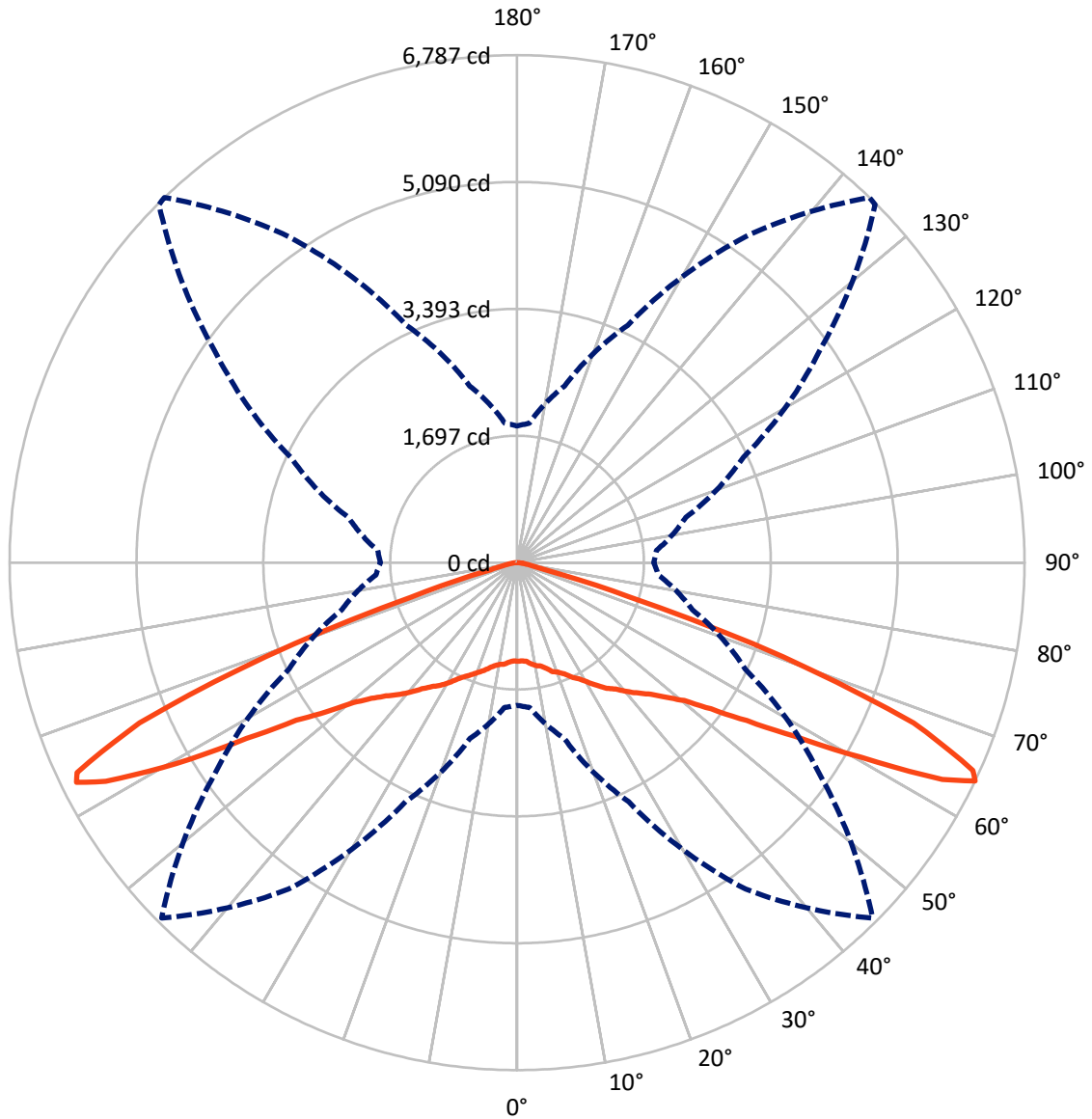
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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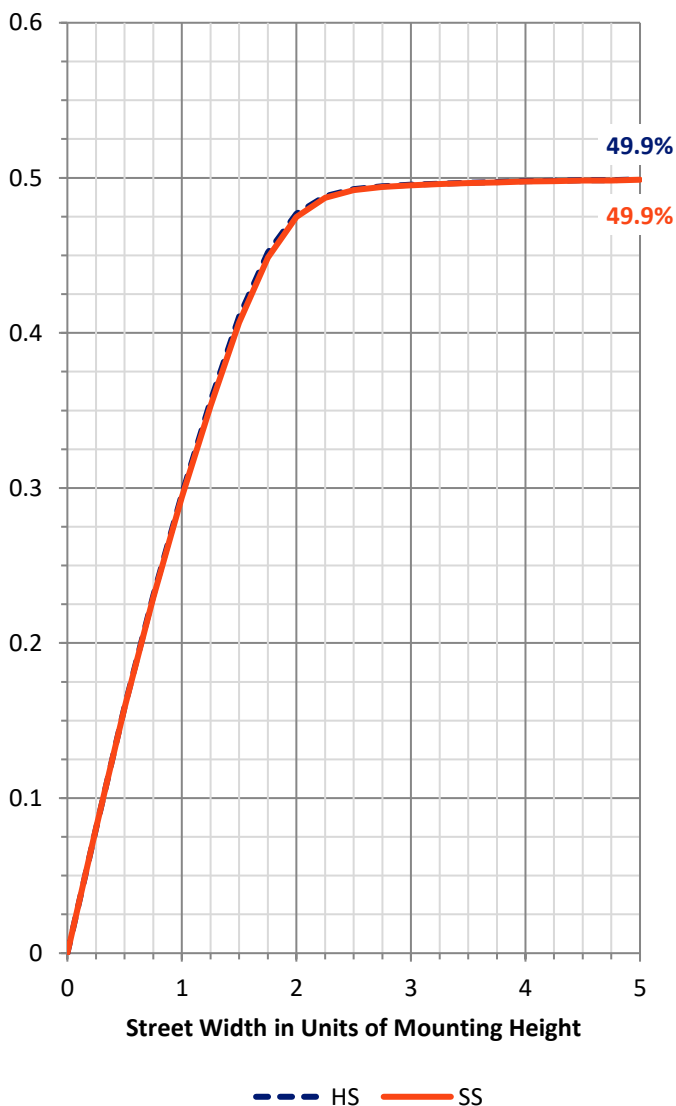
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5637.5 | 0.0 | 5637.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5626.8 | 0.0 | 5626.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 11264.3 | 0.0 | 11264.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 129.6 | 1.2 |
| 10°-20° | 417.7 | 3.7 |
| 20°-30° | 784.9 | 7.0 |
| 30°-40° | 1294.5 | 11.5 |
| 40°-50° | 2024.5 | 18.0 |
| 50°-60° | 3271.1 | 29.0 |
| 60°-70° | 2945.4 | 26.1 |
| 70°-80° | 348.9 | 3.1 |
| 80°-90° | 47.8 | 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° | 11264.3 | 100.0 |
| 0°-180° | 11264.3 | 100.0 |

Coefficient of Utilization



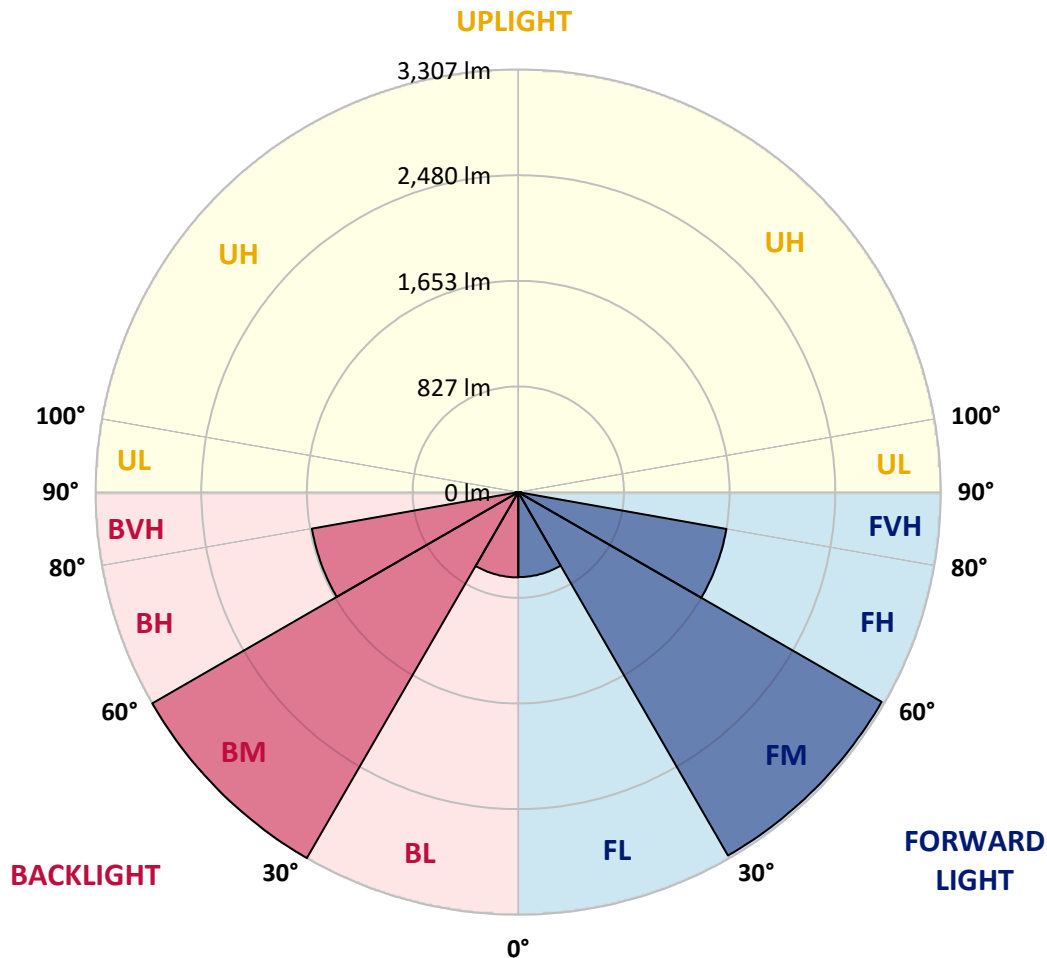
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 664.8 | 5.9 | | | |
| FM (30°-60°) | 3283.2 | 29.1 | | | |
| FH (60°-80°) | 1654.3 | 14.7 | | | G1/1800 |
| FVH (80°-90°) | 24.5 | 0.2 | | | G1/100 |
| BL (0°-30°) | 667.4 | 5.9 | B2/1000 | | |
| BM (30°-60°) | 3306.9 | 29.4 | B3/5000 | | |
| BH (60°-80°) | 1640.0 | 14.6 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 23.3 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 |
| 2.5° | 1303.3 | 1305.9 | 1329.2 | 1320.1 | 1327.9 | 1313.7 | 1324.0 | 1345.9 | 1320.1 | 1339.5 | 1345.9 |
| 5° | 1317.5 | 1321.4 | 1321.4 | 1330.4 | 1335.6 | 1333.0 | 1339.5 | 1330.4 | 1355.0 | 1344.7 | 1360.2 |
| 7.5° | 1369.2 | 1362.7 | 1352.4 | 1360.2 | 1361.4 | 1367.9 | 1374.4 | 1386.0 | 1382.1 | 1373.1 | 1388.6 |
| 10° | 1378.2 | 1373.1 | 1388.6 | 1389.9 | 1383.4 | 1378.2 | 1384.7 | 1384.7 | 1396.3 | 1398.9 | 1398.9 |
| 12.5° | 1393.7 | 1398.9 | 1397.6 | 1407.9 | 1409.2 | 1405.4 | 1415.7 | 1435.1 | 1429.9 | 1433.8 | 1424.7 |
| 15° | 1453.2 | 1446.7 | 1445.4 | 1455.7 | 1472.5 | 1448.0 | 1466.1 | 1464.8 | 1459.6 | 1467.4 | 1446.7 |
| 17.5° | 1504.8 | 1484.2 | 1493.2 | 1510.0 | 1503.5 | 1508.7 | 1531.9 | 1511.3 | 1516.4 | 1507.4 | 1500.9 |
| 20° | 1550.0 | 1533.2 | 1534.5 | 1541.0 | 1541.0 | 1556.5 | 1565.5 | 1557.8 | 1552.6 | 1551.3 | 1553.9 |
| 22.5° | 1600.4 | 1581.0 | 1582.3 | 1609.4 | 1618.5 | 1613.3 | 1606.9 | 1619.8 | 1622.4 | 1612.0 | 1623.7 |
| 25° | 1637.9 | 1658.5 | 1665.0 | 1677.9 | 1658.5 | 1672.7 | 1667.6 | 1692.1 | 1707.6 | 1687.0 | 1701.2 |
| 27.5° | 1736.0 | 1727.0 | 1743.8 | 1742.5 | 1758.0 | 1743.8 | 1752.8 | 1760.6 | 1767.0 | 1768.3 | 1761.9 |
| 30° | 1823.9 | 1827.7 | 1811.0 | 1856.2 | 1820.0 | 1843.2 | 1858.7 | 1862.6 | 1870.4 | 1870.4 | 1851.0 |
| 32.5° | 1916.9 | 1909.1 | 1936.2 | 1925.9 | 1919.5 | 1937.5 | 1920.7 | 1973.7 | 1942.7 | 1960.8 | 1938.8 |
| 35° | 2021.5 | 2021.5 | 2031.8 | 2060.2 | 2021.5 | 2009.9 | 2040.9 | 2062.8 | 2062.8 | 2030.5 | 2038.3 |
| 37.5° | 2139.0 | 2128.7 | 2141.6 | 2177.8 | 2148.1 | 2109.3 | 2166.2 | 2175.2 | 2168.8 | 2159.7 | 2144.2 |
| 40° | 2221.7 | 2219.1 | 2245.0 | 2292.8 | 2250.1 | 2242.4 | 2252.7 | 2277.3 | 2285.0 | 2294.0 | 2273.4 |
| 42.5° | 2361.2 | 2372.8 | 2447.8 | 2436.1 | 2401.3 | 2374.1 | 2371.5 | 2463.3 | 2441.3 | 2418.0 | 2406.4 |
| 45° | 2567.9 | 2557.6 | 2596.3 | 2597.6 | 2552.4 | 2493.0 | 2505.9 | 2589.8 | 2627.3 | 2575.6 | 2595.0 |
| 47.5° | 2731.9 | 2737.1 | 2764.2 | 2819.8 | 2715.1 | 2653.1 | 2700.9 | 2836.6 | 2824.9 | 2805.6 | 2823.6 |
| 50° | 2951.5 | 2974.8 | 3060.0 | 3040.6 | 2947.6 | 2871.4 | 2976.1 | 3103.9 | 3118.1 | 3047.1 | 3034.2 |
| 52.5° | 3255.1 | 3291.2 | 3337.7 | 3353.2 | 3264.1 | 3237.0 | 3243.4 | 3402.3 | 3367.4 | 3299.0 | 3255.1 |
| 55° | 3521.2 | 3537.9 | 3623.2 | 3751.1 | 3744.6 | 3614.2 | 3689.1 | 3748.5 | 3606.4 | 3465.6 | 3477.2 |
| 57.5° | 3634.8 | 3642.6 | 3880.2 | 4136.0 | 4288.4 | 4318.1 | 4232.9 | 4032.7 | 3694.2 | 3423.0 | 3406.2 |
| 60° | 3351.9 | 3425.6 | 3712.3 | 4289.7 | 4985.9 | 5329.5 | 4762.5 | 4065.0 | 3488.9 | 3159.5 | 3134.9 |
| 62.5° | 2679.0 | 2682.8 | 3109.1 | 3984.9 | 5419.9 | 6320.3 | 4965.3 | 3761.4 | 2941.2 | 2567.9 | 2469.7 |
| 64° | 1907.8 | 1944.0 | 2433.5 | 3527.6 | 5329.5 | 6723.3 | 4940.7 | 3364.9 | 2424.5 | 1894.9 | 1826.5 |
| 65° | 1369.2 | 1419.6 | 1892.3 | 3062.6 | 5117.7 | 6675.5 | 4867.1 | 3023.9 | 1960.8 | 1446.7 | 1376.9 |
| 67.5° | 503.8 | 524.4 | 742.7 | 1531.9 | 3674.9 | 5688.6 | 3857.0 | 1662.4 | 861.6 | 613.6 | 551.6 |
| 70° | 233.8 | 235.1 | 275.1 | 506.3 | 1606.9 | 3804.0 | 1840.7 | 623.9 | 324.2 | 257.0 | 239.0 |
| 72.5° | 171.8 | 175.7 | 192.5 | 233.8 | 472.8 | 1610.7 | 604.5 | 255.8 | 189.9 | 167.9 | 164.0 |
| 75° | 139.5 | 142.1 | 147.3 | 169.2 | 218.3 | 431.4 | 245.4 | 177.0 | 151.1 | 135.6 | 130.5 |
| 77.5° | 107.2 | 107.2 | 118.8 | 129.2 | 144.7 | 201.5 | 162.8 | 140.8 | 122.7 | 107.2 | 103.3 |
| 80° | 77.5 | 78.8 | 93.0 | 100.8 | 98.2 | 133.0 | 117.5 | 116.3 | 100.8 | 84.0 | 77.5 |
| 82.5° | 45.2 | 49.1 | 67.2 | 72.3 | 69.8 | 78.8 | 85.3 | 90.4 | 78.8 | 58.1 | 53.0 |
| 85° | 25.8 | 27.1 | 38.8 | 40.0 | 40.0 | 37.5 | 49.1 | 54.3 | 53.0 | 36.2 | 32.3 |
| 87.5° | 7.8 | 7.8 | 10.3 | 10.3 | 11.6 | 12.9 | 19.4 | 23.3 | 25.8 | 18.1 | 16.8 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 136° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 | 1318.8 |
| 2.5° | 1339.5 | 1320.1 | 1321.4 | 1326.6 | 1309.8 | 1316.2 | 1335.6 | 1321.4 | 1317.5 | 1309.8 | 1305.9 |
| 5° | 1333.0 | 1353.7 | 1345.9 | 1348.5 | 1344.7 | 1326.6 | 1324.0 | 1335.6 | 1342.1 | 1330.4 | 1353.7 |
| 7.5° | 1378.2 | 1369.2 | 1358.9 | 1362.7 | 1353.7 | 1369.2 | 1379.5 | 1356.3 | 1367.9 | 1361.4 | 1348.5 |
| 10° | 1404.1 | 1387.3 | 1395.0 | 1392.4 | 1386.0 | 1401.5 | 1391.2 | 1388.6 | 1378.2 | 1364.0 | 1384.7 |
| 12.5° | 1413.1 | 1432.5 | 1445.4 | 1423.4 | 1427.3 | 1419.6 | 1413.1 | 1413.1 | 1401.5 | 1397.6 | 1401.5 |
| 15° | 1453.2 | 1469.9 | 1464.8 | 1481.6 | 1459.6 | 1467.4 | 1475.1 | 1455.7 | 1466.1 | 1437.7 | 1459.6 |
| 17.5° | 1526.8 | 1512.6 | 1530.7 | 1508.7 | 1516.4 | 1531.9 | 1507.4 | 1507.4 | 1515.2 | 1499.7 | 1480.3 |
| 20° | 1573.3 | 1566.8 | 1560.4 | 1561.7 | 1548.7 | 1562.9 | 1555.2 | 1551.3 | 1539.7 | 1544.9 | 1555.2 |
| 22.5° | 1617.2 | 1608.2 | 1610.7 | 1614.6 | 1623.7 | 1617.2 | 1613.3 | 1617.2 | 1588.8 | 1614.6 | 1578.4 |
| 25° | 1671.5 | 1696.0 | 1688.2 | 1705.0 | 1679.2 | 1696.0 | 1694.7 | 1670.2 | 1685.7 | 1675.3 | 1667.6 |
| 27.5° | 1761.9 | 1749.0 | 1760.6 | 1739.9 | 1758.0 | 1759.3 | 1743.8 | 1785.1 | 1767.0 | 1764.5 | 1759.3 |
| 30° | 1878.1 | 1869.1 | 1861.3 | 1849.7 | 1863.9 | 1852.3 | 1865.2 | 1869.1 | 1852.3 | 1839.4 | 1814.8 |
| 32.5° | 1944.0 | 1968.5 | 1977.6 | 1949.2 | 1950.5 | 1956.9 | 1945.3 | 1933.7 | 1944.0 | 1947.9 | 1944.0 |
| 35° | 2037.0 | 2060.2 | 2065.4 | 2043.5 | 2031.8 | 2064.1 | 2040.9 | 2079.6 | 2046.0 | 2047.3 | 2012.5 |
| 37.5° | 2145.5 | 2152.0 | 2195.9 | 2171.3 | 2161.0 | 2145.5 | 2188.1 | 2183.0 | 2190.7 | 2128.7 | 2159.7 |
| 40° | 2268.2 | 2291.5 | 2316.0 | 2254.0 | 2252.7 | 2266.9 | 2264.3 | 2294.0 | 2279.8 | 2270.8 | 2248.8 |
| 42.5° | 2402.5 | 2451.6 | 2455.5 | 2414.2 | 2388.3 | 2385.8 | 2398.7 | 2464.5 | 2465.8 | 2406.4 | 2380.6 |
| 45° | 2580.8 | 2635.1 | 2620.8 | 2540.8 | 2512.3 | 2508.5 | 2571.8 | 2600.2 | 2624.7 | 2601.5 | 2579.5 |
| 47.5° | 2803.0 | 2839.1 | 2828.8 | 2755.2 | 2663.5 | 2689.3 | 2751.3 | 2840.4 | 2814.6 | 2783.6 | 2757.8 |
| 50° | 3040.6 | 3083.3 | 3061.3 | 2987.7 | 2899.9 | 2899.9 | 2976.1 | 3089.7 | 3082.0 | 3021.3 | 2998.0 |
| 52.5° | 3304.2 | 3366.2 | 3416.5 | 3311.9 | 3238.3 | 3249.9 | 3370.0 | 3411.4 | 3392.0 | 3349.4 | 3330.0 |
| 55° | 3500.5 | 3619.3 | 3722.7 | 3727.8 | 3731.7 | 3730.4 | 3761.4 | 3802.7 | 3664.5 | 3596.1 | 3526.3 |
| 57.5° | 3452.7 | 3677.4 | 4031.4 | 4271.6 | 4342.7 | 4380.1 | 4369.8 | 4178.6 | 3851.8 | 3627.1 | 3650.3 |
| 60° | 3111.7 | 3478.5 | 4049.5 | 4820.6 | 5337.3 | 5285.6 | 5097.0 | 4341.4 | 3748.5 | 3368.7 | 3320.9 |
| 62.5° | 2482.6 | 2924.4 | 3745.9 | 4975.6 | 6399.0 | 6383.5 | 5396.7 | 3965.5 | 3123.3 | 2642.8 | 2613.1 |
| 64° | 1870.4 | 2335.4 | 3341.6 | 4935.6 | 6771.1 | 6786.6 | 5320.5 | 3503.1 | 2443.9 | 1870.4 | 1825.2 |
| 65° | 1431.2 | 1862.6 | 2945.1 | 4852.9 | 6691.0 | 6700.0 | 5108.6 | 3025.1 | 1857.5 | 1327.9 | 1278.8 |
| 67.5° | 569.6 | 793.1 | 1597.8 | 3680.0 | 5745.4 | 5720.9 | 3645.2 | 1463.5 | 710.4 | 462.4 | 453.4 |
| 70° | 242.8 | 302.3 | 560.6 | 1743.8 | 3846.7 | 3775.6 | 1569.4 | 475.3 | 263.5 | 220.9 | 219.6 |
| 72.5° | 166.6 | 184.7 | 240.3 | 538.6 | 1599.1 | 1561.7 | 446.9 | 220.9 | 179.5 | 165.3 | 165.3 |
| 75° | 134.3 | 147.3 | 174.4 | 226.0 | 423.7 | 408.2 | 210.5 | 162.8 | 143.4 | 133.0 | 131.8 |
| 77.5° | 104.6 | 117.5 | 136.9 | 156.3 | 193.8 | 192.5 | 140.8 | 122.7 | 111.1 | 103.3 | 100.8 |
| 80° | 82.7 | 95.6 | 108.5 | 111.1 | 126.6 | 124.0 | 95.6 | 96.9 | 90.4 | 74.9 | 73.6 |
| 82.5° | 56.8 | 77.5 | 86.5 | 78.8 | 74.9 | 74.9 | 68.5 | 68.5 | 63.3 | 46.5 | 42.6 |
| 85° | 34.9 | 51.7 | 54.3 | 46.5 | 34.9 | 34.9 | 37.5 | 36.2 | 33.6 | 24.5 | 23.3 |
| 87.5° | 18.1 | 24.5 | 22.0 | 18.1 | 11.6 | 11.6 | 10.3 | 7.8 | 7.8 | 6.5 | 6.5 |
| 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)