

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: P478897

Luminaire Tested: **IFLD-S-SA3A-735-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478897
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-735-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

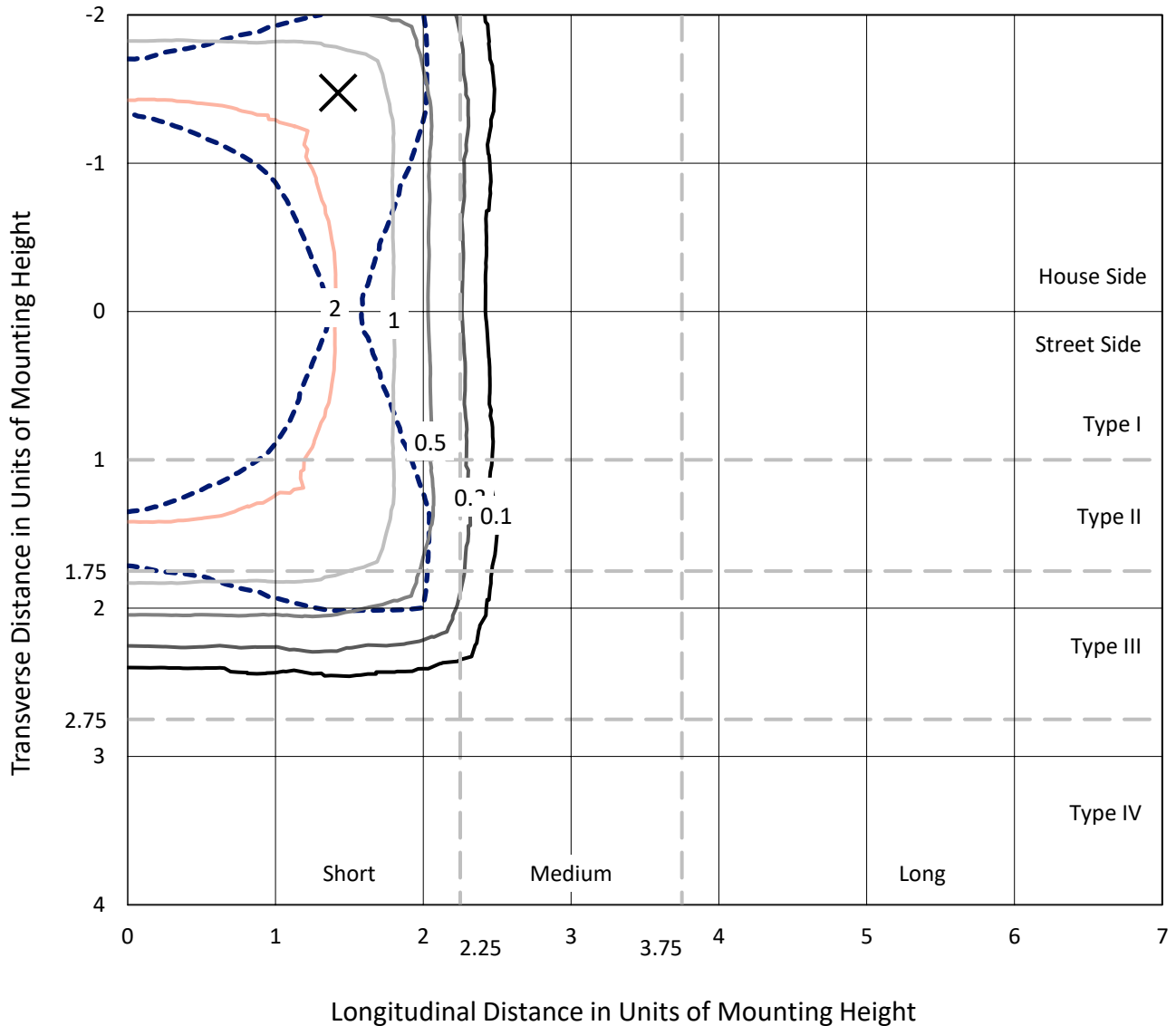
Lumens per Lamp: N/A
Luminaire Lumens: 13534.4 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 94.8
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

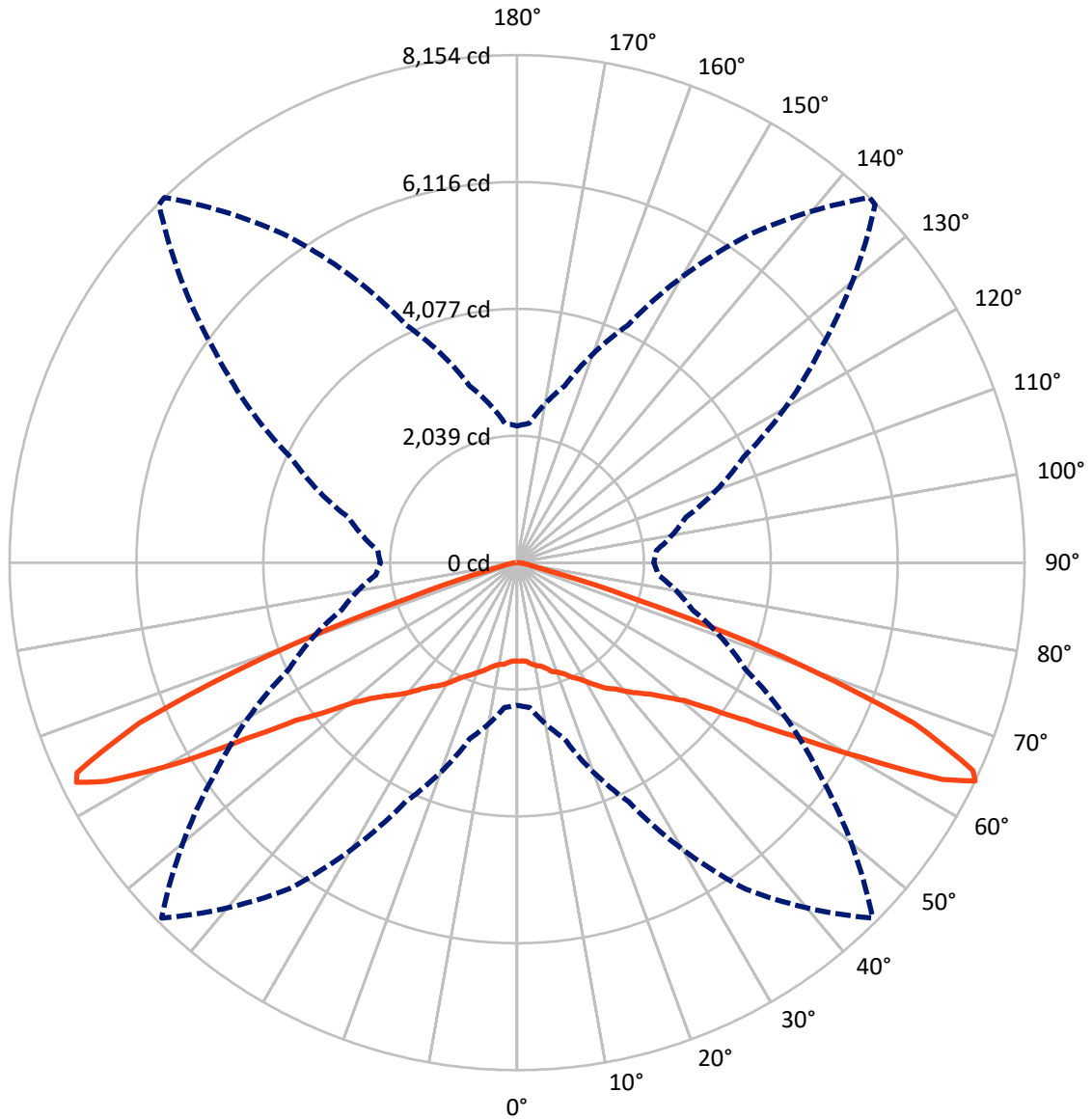
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 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 | 6773.6 | 0.0 | 6773.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6760.7 | 0.0 | 6760.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 13534.4 | 0.0 | 13534.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 155.7 | 1.2 |
| 10°-20° | 501.8 | 3.7 |
| 20°-30° | 943.1 | 7.0 |
| 30°-40° | 1555.4 | 11.5 |
| 40°-50° | 2432.5 | 18.0 |
| 50°-60° | 3930.3 | 29.0 |
| 60°-70° | 3539.0 | 26.1 |
| 70°-80° | 419.2 | 3.1 |
| 80°-90° | 57.4 | 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° | 13534.4 | 100.0 |
| 0°-180° | 13534.4 | 100.0 |

Coefficient of Utilization



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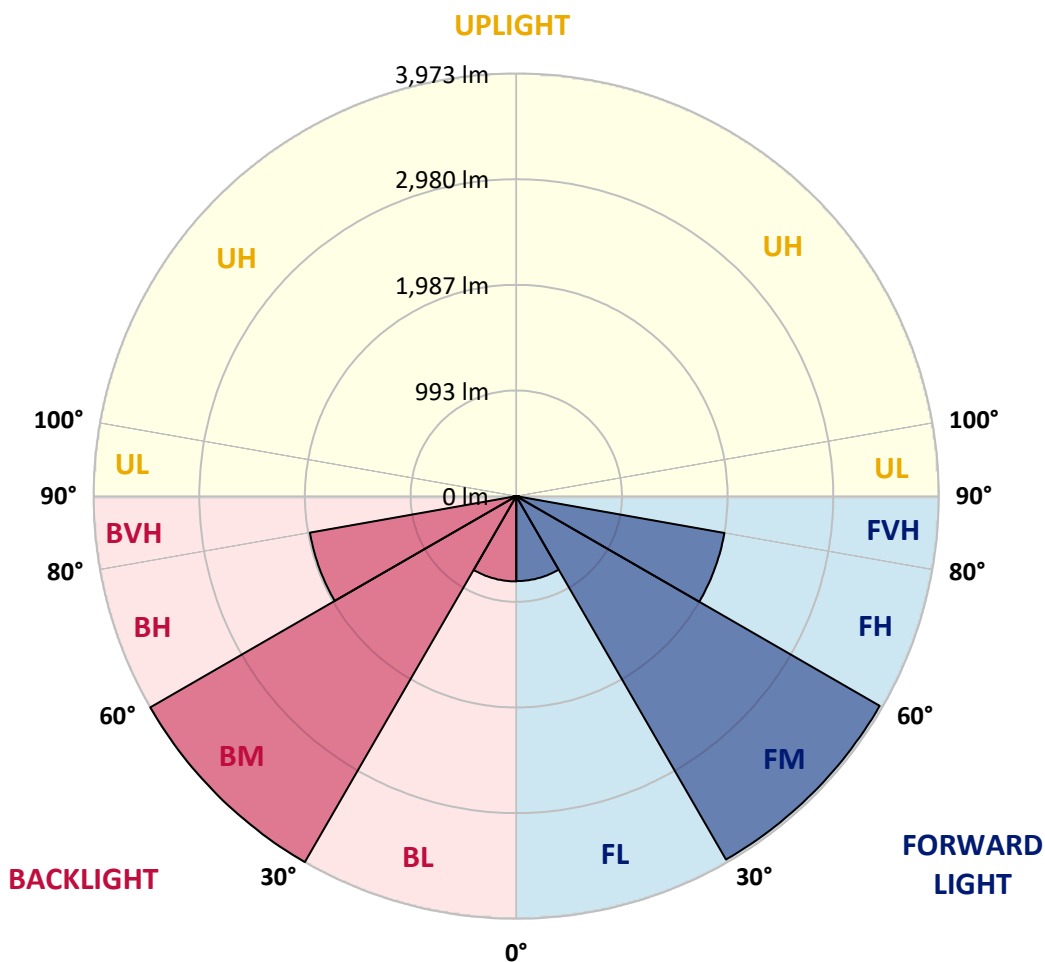
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 798.8 | 5.9 | | | |
| FM (30°-60°) | 3944.9 | 29.1 | | | |
| FH (60°-80°) | 1987.7 | 14.7 | | | G2/5000 |
| FVH (80°-90°) | 29.4 | 0.2 | | | G1/100 |
| BL (0°-30°) | 801.9 | 5.9 | B2/1000 | | |
| BM (30°-60°) | 3973.3 | 29.4 | B3/5000 | | |
| BH (60°-80°) | 1970.5 | 14.6 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 27.9 | 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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1584.6 | 1584.6 | 1584.6 | 1584.6 | 1584.6 | 1584.6 | 1584.6 | 1584.6 | 1584.6 | 1584.6 | 1584.6 |
| 2.5° | 1566.0 | 1569.1 | 1597.0 | 1586.2 | 1595.5 | 1578.4 | 1590.8 | 1617.2 | 1586.2 | 1609.4 | 1617.2 |
| 5° | 1583.0 | 1587.7 | 1587.7 | 1598.6 | 1604.8 | 1601.7 | 1609.4 | 1598.6 | 1628.1 | 1615.6 | 1634.3 |
| 7.5° | 1645.1 | 1637.4 | 1625.0 | 1634.3 | 1635.8 | 1643.6 | 1651.3 | 1665.3 | 1660.6 | 1649.8 | 1668.4 |
| 10° | 1656.0 | 1649.8 | 1668.4 | 1670.0 | 1662.2 | 1656.0 | 1663.8 | 1663.8 | 1677.7 | 1680.8 | 1680.8 |
| 12.5° | 1674.6 | 1680.8 | 1679.3 | 1691.7 | 1693.2 | 1688.6 | 1701.0 | 1724.3 | 1718.1 | 1722.7 | 1711.9 |
| 15° | 1746.0 | 1738.2 | 1736.7 | 1749.1 | 1769.3 | 1739.8 | 1761.5 | 1760.0 | 1753.8 | 1763.1 | 1738.2 |
| 17.5° | 1808.1 | 1783.3 | 1794.1 | 1814.3 | 1806.5 | 1812.7 | 1840.7 | 1815.8 | 1822.1 | 1811.2 | 1803.4 |
| 20° | 1862.4 | 1842.2 | 1843.8 | 1851.5 | 1851.5 | 1870.2 | 1881.0 | 1871.7 | 1865.5 | 1864.0 | 1867.1 |
| 22.5° | 1922.9 | 1899.7 | 1901.2 | 1933.8 | 1944.7 | 1938.5 | 1930.7 | 1946.2 | 1949.3 | 1936.9 | 1950.9 |
| 25° | 1967.9 | 1992.8 | 2000.5 | 2016.1 | 1992.8 | 2009.8 | 2003.6 | 2033.1 | 2051.8 | 2026.9 | 2044.0 |
| 27.5° | 2085.9 | 2075.0 | 2095.2 | 2093.7 | 2112.3 | 2095.2 | 2106.1 | 2115.4 | 2123.1 | 2124.7 | 2116.9 |
| 30° | 2191.4 | 2196.1 | 2175.9 | 2230.2 | 2186.8 | 2214.7 | 2233.3 | 2238.0 | 2247.3 | 2247.3 | 2224.0 |
| 32.5° | 2303.2 | 2293.9 | 2326.5 | 2314.0 | 2306.3 | 2328.0 | 2307.8 | 2371.5 | 2334.2 | 2355.9 | 2329.6 |
| 35° | 2428.9 | 2428.9 | 2441.3 | 2475.5 | 2428.9 | 2414.9 | 2452.2 | 2478.6 | 2478.6 | 2439.8 | 2449.1 |
| 37.5° | 2570.1 | 2557.7 | 2573.2 | 2616.7 | 2581.0 | 2534.4 | 2602.7 | 2613.6 | 2605.8 | 2595.0 | 2576.3 |
| 40° | 2669.5 | 2666.3 | 2697.4 | 2754.8 | 2703.6 | 2694.3 | 2706.7 | 2736.2 | 2745.5 | 2756.4 | 2731.5 |
| 42.5° | 2837.1 | 2851.0 | 2941.1 | 2927.1 | 2885.2 | 2852.6 | 2849.5 | 2959.7 | 2933.3 | 2905.4 | 2891.4 |
| 45° | 3085.4 | 3073.0 | 3119.5 | 3121.1 | 3066.8 | 2995.4 | 3010.9 | 3111.8 | 3156.8 | 3094.7 | 3118.0 |
| 47.5° | 3282.5 | 3288.7 | 3321.3 | 3388.0 | 3262.3 | 3187.8 | 3245.2 | 3408.2 | 3394.2 | 3371.0 | 3392.7 |
| 50° | 3546.3 | 3574.3 | 3676.7 | 3653.4 | 3541.7 | 3450.1 | 3575.8 | 3729.5 | 3746.5 | 3661.2 | 3645.7 |
| 52.5° | 3911.1 | 3954.5 | 4010.4 | 4029.0 | 3921.9 | 3889.3 | 3897.1 | 4088.0 | 4046.1 | 3963.8 | 3911.1 |
| 55° | 4230.8 | 4250.9 | 4353.4 | 4507.0 | 4499.3 | 4342.5 | 4432.5 | 4503.9 | 4333.2 | 4164.0 | 4178.0 |
| 57.5° | 4367.3 | 4376.7 | 4662.2 | 4969.5 | 5152.7 | 5188.4 | 5085.9 | 4845.4 | 4438.7 | 4112.8 | 4092.6 |
| 60° | 4027.5 | 4115.9 | 4460.5 | 5154.2 | 5990.7 | 6403.6 | 5722.2 | 4884.2 | 4192.0 | 3796.2 | 3766.7 |
| 62.5° | 3218.9 | 3223.5 | 3735.7 | 4787.9 | 6512.2 | 7594.0 | 5965.9 | 4519.4 | 3533.9 | 3085.4 | 2967.4 |
| 64° | 2292.3 | 2335.8 | 2924.0 | 4238.5 | 6403.6 | 8078.2 | 5936.4 | 4043.0 | 2913.1 | 2276.8 | 2194.5 |
| 65° | 1645.1 | 1705.7 | 2273.7 | 3679.8 | 6149.1 | 8020.8 | 5848.0 | 3633.2 | 2355.9 | 1738.2 | 1654.4 |
| 67.5° | 605.3 | 630.1 | 892.4 | 1840.7 | 4415.5 | 6835.0 | 4634.3 | 1997.4 | 1035.2 | 737.2 | 662.7 |
| 70° | 280.9 | 282.5 | 330.6 | 608.4 | 1930.7 | 4570.7 | 2211.6 | 749.6 | 389.6 | 308.8 | 287.1 |
| 72.5° | 206.4 | 211.1 | 231.2 | 280.9 | 568.0 | 1935.4 | 726.3 | 307.3 | 228.1 | 201.8 | 197.1 |
| 75° | 167.6 | 170.7 | 176.9 | 203.3 | 262.3 | 518.4 | 294.9 | 212.6 | 181.6 | 163.0 | 156.8 |
| 77.5° | 128.8 | 128.8 | 142.8 | 155.2 | 173.8 | 242.1 | 195.6 | 169.2 | 147.4 | 128.8 | 124.2 |
| 80° | 93.1 | 94.7 | 111.7 | 121.1 | 118.0 | 159.9 | 141.2 | 139.7 | 121.1 | 100.9 | 93.1 |
| 82.5° | 54.3 | 59.0 | 80.7 | 86.9 | 83.8 | 94.7 | 102.4 | 108.6 | 94.7 | 69.8 | 63.6 |
| 85° | 31.0 | 32.6 | 46.6 | 48.1 | 48.1 | 45.0 | 59.0 | 65.2 | 63.6 | 43.5 | 38.8 |
| 87.5° | 9.3 | 9.3 | 12.4 | 12.4 | 14.0 | 15.5 | 23.3 | 27.9 | 31.0 | 21.7 | 20.2 |
| 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° | 1584.6 | 1584.6 | 1584.6 | 1584.6 | 1584.6 | 1584.6 | 1584.6 | 1584.6 | 1584.6 | 1584.6 | 1584.6 |
| 2.5° | 1609.4 | 1586.2 | 1587.7 | 1593.9 | 1573.7 | 1581.5 | 1604.8 | 1587.7 | 1583.0 | 1573.7 | 1569.1 |
| 5° | 1601.7 | 1626.5 | 1617.2 | 1620.3 | 1615.6 | 1593.9 | 1590.8 | 1604.8 | 1612.5 | 1598.6 | 1626.5 |
| 7.5° | 1656.0 | 1645.1 | 1632.7 | 1637.4 | 1626.5 | 1645.1 | 1657.5 | 1629.6 | 1643.6 | 1635.8 | 1620.3 |
| 10° | 1687.0 | 1666.9 | 1676.2 | 1673.1 | 1665.3 | 1683.9 | 1671.5 | 1668.4 | 1656.0 | 1638.9 | 1663.8 |
| 12.5° | 1697.9 | 1721.2 | 1736.7 | 1710.3 | 1715.0 | 1705.7 | 1697.9 | 1697.9 | 1683.9 | 1679.3 | 1683.9 |
| 15° | 1746.0 | 1766.2 | 1760.0 | 1780.2 | 1753.8 | 1763.1 | 1772.4 | 1749.1 | 1761.5 | 1727.4 | 1753.8 |
| 17.5° | 1834.5 | 1817.4 | 1839.1 | 1812.7 | 1822.1 | 1840.7 | 1811.2 | 1811.2 | 1820.5 | 1801.9 | 1778.6 |
| 20° | 1890.3 | 1882.6 | 1874.8 | 1876.4 | 1860.9 | 1877.9 | 1868.6 | 1864.0 | 1850.0 | 1856.2 | 1868.6 |
| 22.5° | 1943.1 | 1932.2 | 1935.4 | 1940.0 | 1950.9 | 1943.1 | 1938.5 | 1943.1 | 1909.0 | 1940.0 | 1896.6 |
| 25° | 2008.3 | 2037.8 | 2028.5 | 2048.6 | 2017.6 | 2037.8 | 2036.2 | 2006.7 | 2025.4 | 2013.0 | 2003.6 |
| 27.5° | 2116.9 | 2101.4 | 2115.4 | 2090.6 | 2112.3 | 2113.8 | 2095.2 | 2144.9 | 2123.1 | 2120.0 | 2113.8 |
| 30° | 2256.6 | 2245.8 | 2236.4 | 2222.5 | 2239.5 | 2225.6 | 2241.1 | 2245.8 | 2225.6 | 2210.1 | 2180.6 |
| 32.5° | 2335.8 | 2365.3 | 2376.1 | 2342.0 | 2343.5 | 2351.3 | 2337.3 | 2323.4 | 2335.8 | 2340.4 | 2335.8 |
| 35° | 2447.5 | 2475.5 | 2481.7 | 2455.3 | 2441.3 | 2480.1 | 2452.2 | 2498.7 | 2458.4 | 2459.9 | 2418.0 |
| 37.5° | 2577.9 | 2585.6 | 2638.4 | 2608.9 | 2596.5 | 2577.9 | 2629.1 | 2622.9 | 2632.2 | 2557.7 | 2595.0 |
| 40° | 2725.3 | 2753.3 | 2782.7 | 2708.3 | 2706.7 | 2723.8 | 2720.7 | 2756.4 | 2739.3 | 2728.4 | 2702.0 |
| 42.5° | 2886.7 | 2945.7 | 2950.4 | 2900.7 | 2869.7 | 2866.6 | 2882.1 | 2961.2 | 2962.8 | 2891.4 | 2860.3 |
| 45° | 3100.9 | 3166.1 | 3149.0 | 3052.8 | 3018.7 | 3014.0 | 3090.0 | 3124.2 | 3153.7 | 3125.7 | 3099.4 |
| 47.5° | 3367.9 | 3411.3 | 3398.9 | 3310.4 | 3200.2 | 3231.3 | 3305.8 | 3412.9 | 3381.8 | 3344.6 | 3313.5 |
| 50° | 3653.4 | 3704.6 | 3678.3 | 3589.8 | 3484.3 | 3484.3 | 3575.8 | 3712.4 | 3703.1 | 3630.1 | 3602.2 |
| 52.5° | 3970.0 | 4044.5 | 4105.1 | 3979.3 | 3890.9 | 3904.8 | 4049.2 | 4098.8 | 4075.6 | 4024.4 | 4001.1 |
| 55° | 4205.9 | 4348.7 | 4472.9 | 4479.1 | 4483.7 | 4482.2 | 4519.4 | 4569.1 | 4403.0 | 4320.8 | 4237.0 |
| 57.5° | 4148.5 | 4418.6 | 4843.8 | 5132.5 | 5217.8 | 5262.9 | 5250.4 | 5020.7 | 4628.1 | 4358.0 | 4386.0 |
| 60° | 3738.8 | 4179.6 | 4865.5 | 5792.1 | 6412.9 | 6350.8 | 6124.2 | 5216.3 | 4503.9 | 4047.6 | 3990.2 |
| 62.5° | 2983.0 | 3513.7 | 4500.8 | 5978.3 | 7688.6 | 7670.0 | 6484.3 | 4764.7 | 3752.8 | 3175.4 | 3139.7 |
| 64° | 2247.3 | 2806.0 | 4015.0 | 5930.2 | 8135.6 | 8154.2 | 6392.7 | 4209.0 | 2936.4 | 2247.3 | 2193.0 |
| 65° | 1719.6 | 2238.0 | 3538.6 | 5830.9 | 8039.4 | 8050.3 | 6138.2 | 3634.8 | 2231.8 | 1595.5 | 1536.5 |
| 67.5° | 684.4 | 952.9 | 1919.8 | 4421.7 | 6903.3 | 6873.8 | 4379.8 | 1758.4 | 853.6 | 555.6 | 544.8 |
| 70° | 291.8 | 363.2 | 673.6 | 2095.2 | 4621.9 | 4536.5 | 1885.7 | 571.1 | 316.6 | 265.4 | 263.8 |
| 72.5° | 200.2 | 221.9 | 288.7 | 647.2 | 1921.4 | 1876.4 | 537.0 | 265.4 | 215.7 | 198.7 | 198.7 |
| 75° | 161.4 | 176.9 | 209.5 | 271.6 | 509.1 | 490.4 | 253.0 | 195.6 | 172.3 | 159.9 | 158.3 |
| 77.5° | 125.7 | 141.2 | 164.5 | 187.8 | 232.8 | 231.2 | 169.2 | 147.4 | 133.5 | 124.2 | 121.1 |
| 80° | 99.3 | 114.8 | 130.4 | 133.5 | 152.1 | 149.0 | 114.8 | 116.4 | 108.6 | 90.0 | 88.5 |
| 82.5° | 68.3 | 93.1 | 104.0 | 94.7 | 90.0 | 90.0 | 82.3 | 82.3 | 76.0 | 55.9 | 51.2 |
| 85° | 41.9 | 62.1 | 65.2 | 55.9 | 41.9 | 41.9 | 45.0 | 43.5 | 40.4 | 29.5 | 27.9 |
| 87.5° | 21.7 | 29.5 | 26.4 | 21.7 | 14.0 | 14.0 | 12.4 | 9.3 | 9.3 | 7.8 | 7.8 |
| 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)