

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: P479093

Luminaire Tested: **IFLD-S-SA3B-830-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479093
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-830-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

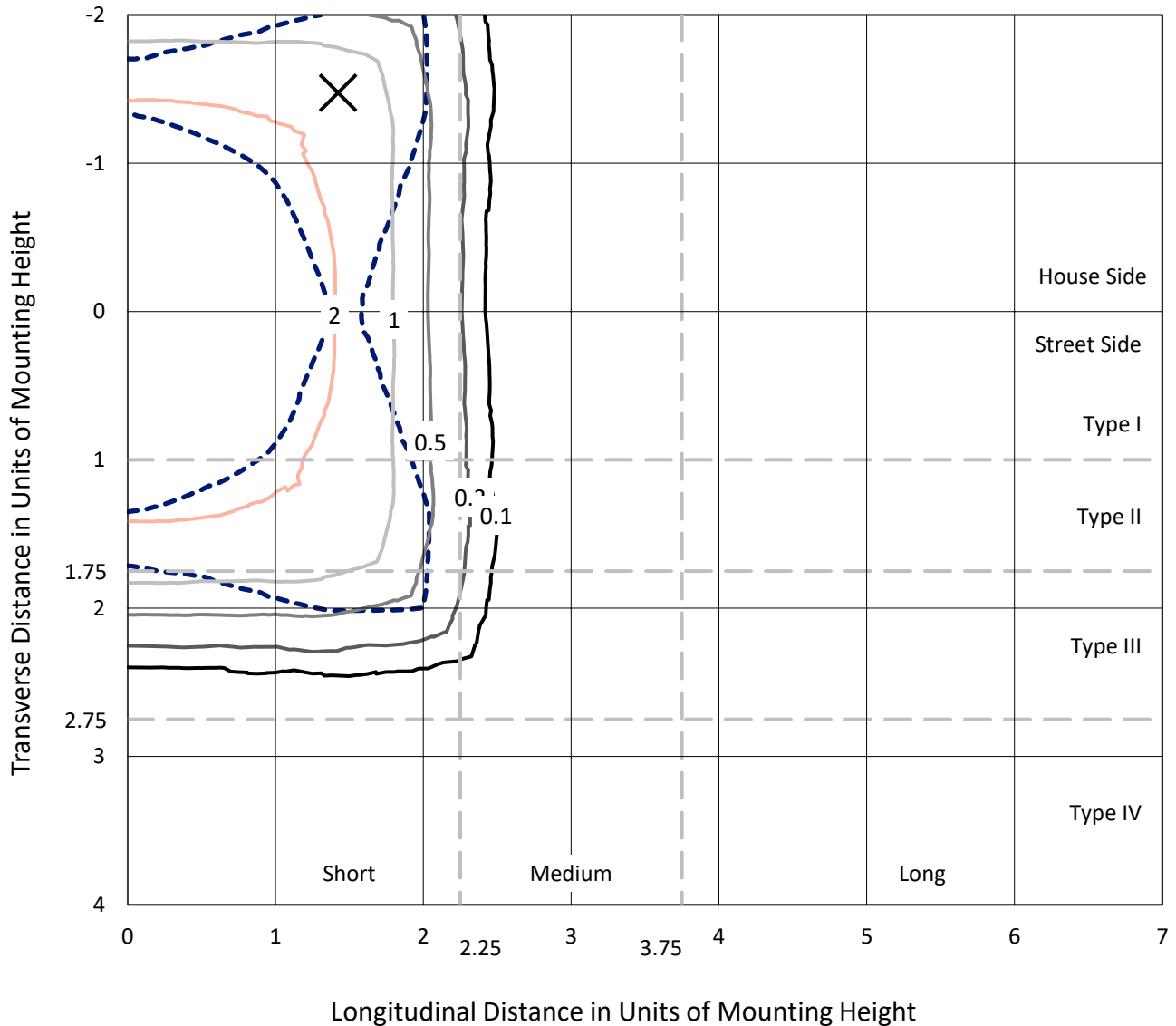
Lumens per Lamp: N/A
Luminaire Lumens: 13485.3 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 122.4
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

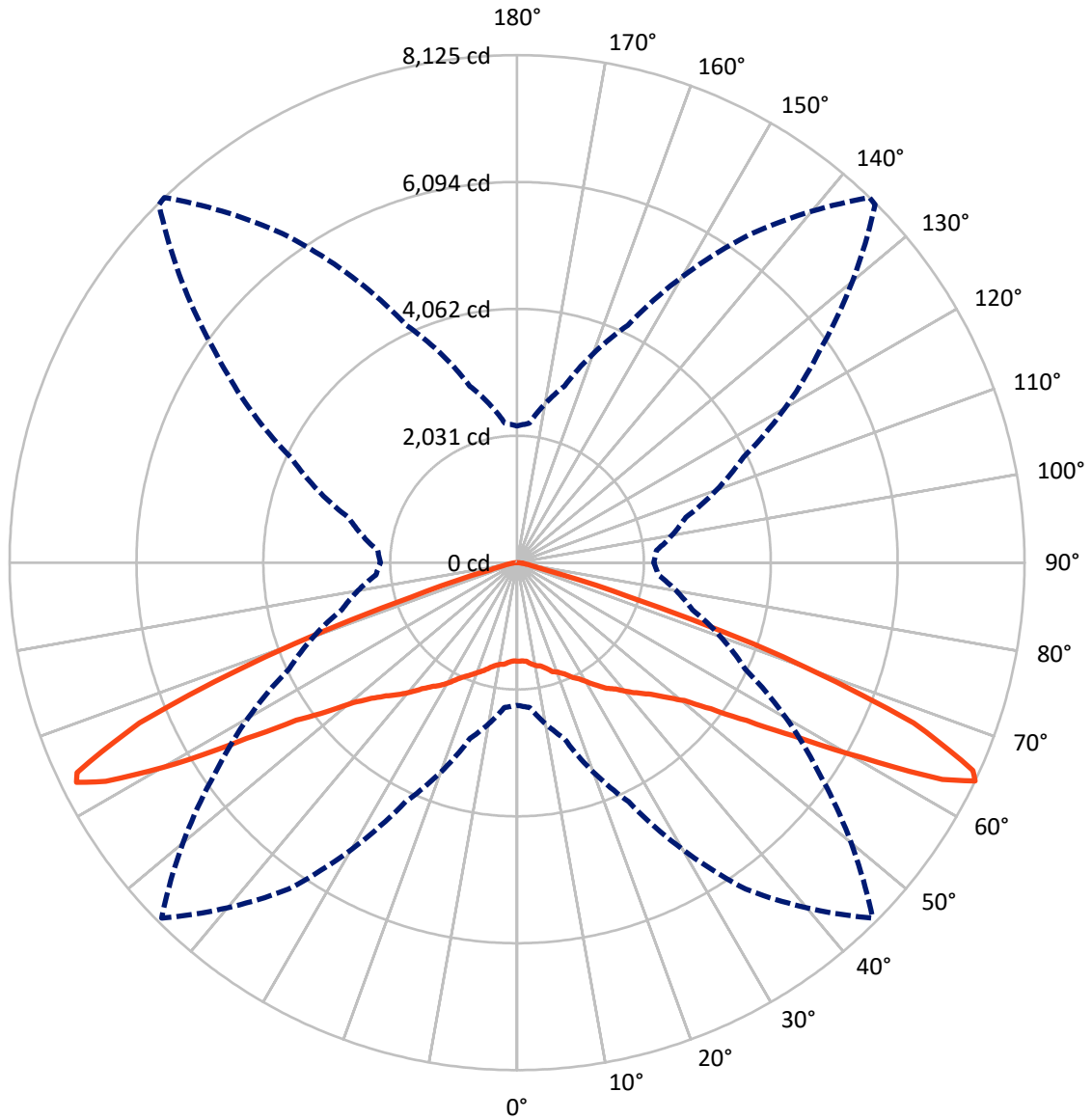
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 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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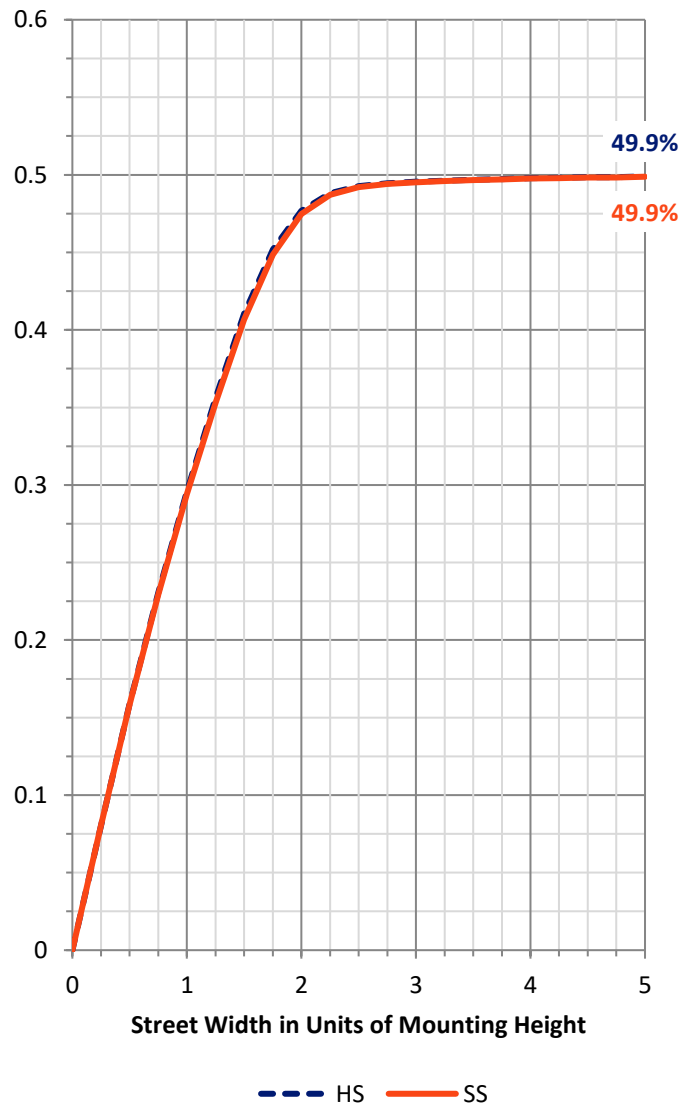
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6749.1 | 0.0 | 6749.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6736.2 | 0.0 | 6736.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 13485.3 | 0.0 | 13485.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 155.1 | 1.2 |
| 10°-20° | 500.0 | 3.7 |
| 20°-30° | 939.7 | 7.0 |
| 30°-40° | 1549.7 | 11.5 |
| 40°-50° | 2423.7 | 18.0 |
| 50°-60° | 3916.1 | 29.0 |
| 60°-70° | 3526.1 | 26.1 |
| 70°-80° | 417.7 | 3.1 |
| 80°-90° | 57.2 | 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° | 13485.3 | 100.0 |
| 0°-180° | 13485.3 | 100.0 |

Coefficient of Utilization



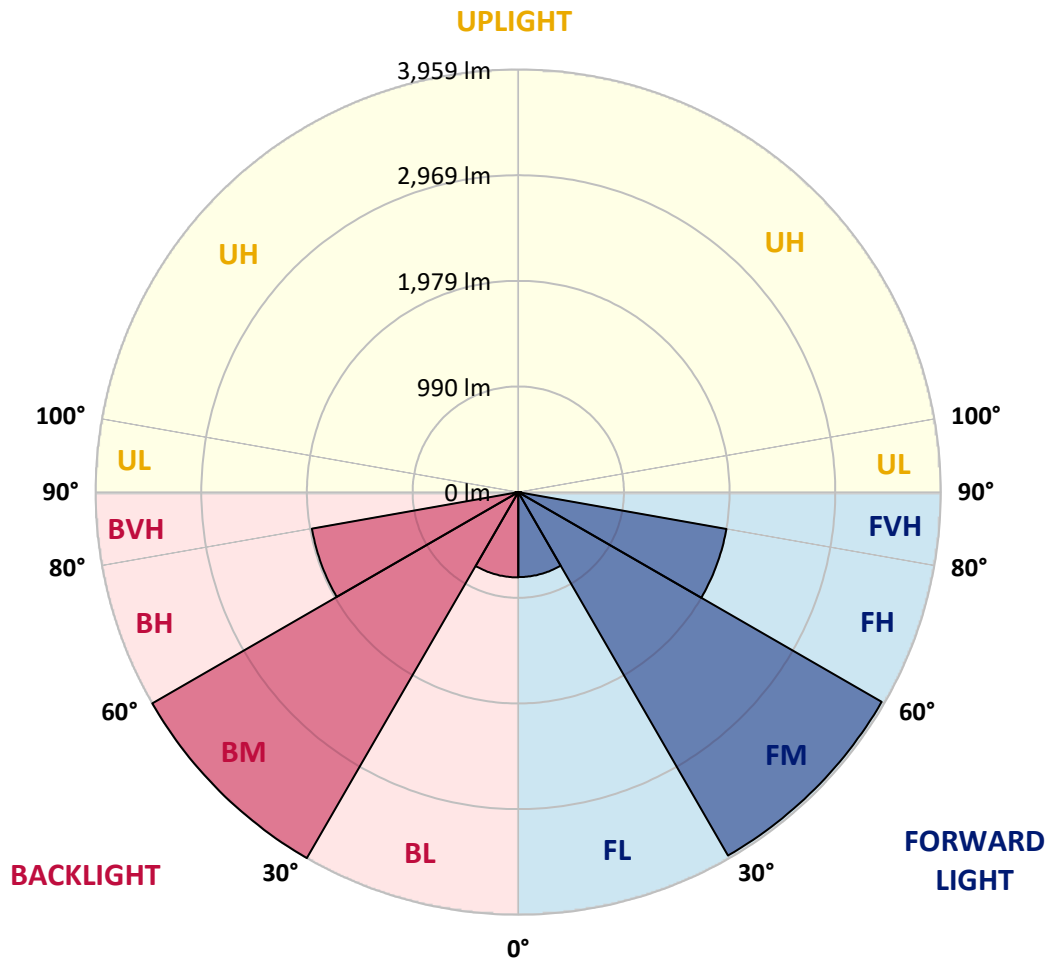
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 795.9 | 5.9 | | | |
| FM (30°-60°) | 3930.5 | 29.1 | | | |
| FH (60°-80°) | 1980.5 | 14.7 | | | G2/5000 |
| FVH (80°-90°) | 29.3 | 0.2 | | | G1/100 |
| BL (0°-30°) | 799.0 | 5.9 | B2/1000 | | |
| BM (30°-60°) | 3958.9 | 29.4 | B3/5000 | | |
| BH (60°-80°) | 1963.4 | 14.6 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 27.8 | 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° | 1578.9 | 1578.9 | 1578.9 | 1578.9 | 1578.9 | 1578.9 | 1578.9 | 1578.9 | 1578.9 | 1578.9 | 1578.9 |
| 2.5° | 1560.3 | 1563.4 | 1591.2 | 1580.4 | 1589.7 | 1572.7 | 1585.0 | 1611.3 | 1580.4 | 1603.6 | 1611.3 |
| 5° | 1577.3 | 1581.9 | 1581.9 | 1592.8 | 1599.0 | 1595.9 | 1603.6 | 1592.8 | 1622.1 | 1609.8 | 1628.3 |
| 7.5° | 1639.2 | 1631.4 | 1619.1 | 1628.3 | 1629.9 | 1637.6 | 1645.3 | 1659.3 | 1654.6 | 1643.8 | 1662.4 |
| 10° | 1650.0 | 1643.8 | 1662.4 | 1663.9 | 1656.2 | 1650.0 | 1657.7 | 1657.7 | 1671.6 | 1674.7 | 1674.7 |
| 12.5° | 1668.5 | 1674.7 | 1673.2 | 1685.6 | 1687.1 | 1682.5 | 1694.8 | 1718.0 | 1711.8 | 1716.5 | 1705.7 |
| 15° | 1739.7 | 1731.9 | 1730.4 | 1742.8 | 1762.9 | 1733.5 | 1755.1 | 1753.6 | 1747.4 | 1756.7 | 1731.9 |
| 17.5° | 1801.5 | 1776.8 | 1787.6 | 1807.7 | 1800.0 | 1806.2 | 1834.0 | 1809.3 | 1815.4 | 1804.6 | 1796.9 |
| 20° | 1855.7 | 1835.5 | 1837.1 | 1844.8 | 1844.8 | 1863.4 | 1874.2 | 1864.9 | 1858.7 | 1857.2 | 1860.3 |
| 22.5° | 1916.0 | 1892.8 | 1894.3 | 1926.8 | 1937.6 | 1931.4 | 1923.7 | 1939.2 | 1942.2 | 1929.9 | 1943.8 |
| 25° | 1960.8 | 1985.5 | 1993.3 | 2008.7 | 1985.5 | 2002.6 | 1996.4 | 2025.8 | 2044.3 | 2019.6 | 2036.6 |
| 27.5° | 2078.3 | 2067.5 | 2087.6 | 2086.1 | 2104.6 | 2087.6 | 2098.4 | 2107.7 | 2115.4 | 2117.0 | 2109.3 |
| 30° | 2183.5 | 2188.1 | 2168.0 | 2222.1 | 2178.8 | 2206.7 | 2225.2 | 2229.9 | 2239.2 | 2239.2 | 2216.0 |
| 32.5° | 2294.8 | 2285.5 | 2318.0 | 2305.6 | 2297.9 | 2319.6 | 2299.5 | 2362.9 | 2325.8 | 2347.4 | 2321.1 |
| 35° | 2420.1 | 2420.1 | 2432.5 | 2466.5 | 2420.1 | 2406.2 | 2443.3 | 2469.6 | 2469.6 | 2430.9 | 2440.2 |
| 37.5° | 2560.8 | 2548.4 | 2563.9 | 2607.2 | 2571.6 | 2525.2 | 2593.3 | 2604.1 | 2596.4 | 2585.5 | 2567.0 |
| 40° | 2659.8 | 2656.7 | 2687.6 | 2744.8 | 2693.8 | 2684.5 | 2696.9 | 2726.3 | 2735.5 | 2746.4 | 2721.6 |
| 42.5° | 2826.8 | 2840.7 | 2930.4 | 2916.5 | 2874.7 | 2842.2 | 2839.1 | 2948.9 | 2922.7 | 2894.8 | 2880.9 |
| 45° | 3074.2 | 3061.8 | 3108.2 | 3109.8 | 3055.6 | 2984.5 | 3000.0 | 3100.5 | 3145.3 | 3083.5 | 3106.7 |
| 47.5° | 3270.6 | 3276.8 | 3309.2 | 3375.7 | 3250.5 | 3176.3 | 3233.5 | 3395.8 | 3381.9 | 3358.7 | 3380.4 |
| 50° | 3533.5 | 3561.3 | 3663.4 | 3640.2 | 3528.8 | 3437.6 | 3562.9 | 3715.9 | 3733.0 | 3647.9 | 3632.4 |
| 52.5° | 3896.9 | 3940.2 | 3995.8 | 4014.4 | 3907.7 | 3875.2 | 3883.0 | 4073.2 | 4031.4 | 3949.4 | 3896.9 |
| 55° | 4215.4 | 4235.5 | 4337.6 | 4490.7 | 4482.9 | 4326.8 | 4416.5 | 4487.6 | 4317.5 | 4148.9 | 4162.8 |
| 57.5° | 4351.5 | 4360.8 | 4645.3 | 4951.5 | 5134.0 | 5169.5 | 5067.5 | 4827.8 | 4422.6 | 4097.9 | 4077.8 |
| 60° | 4012.8 | 4101.0 | 4444.3 | 5135.5 | 5969.0 | 6380.3 | 5701.5 | 4866.4 | 4176.8 | 3782.4 | 3753.1 |
| 62.5° | 3207.2 | 3211.8 | 3722.1 | 4770.6 | 6488.6 | 7566.4 | 5944.3 | 4503.0 | 3521.1 | 3074.2 | 2956.7 |
| 64° | 2284.0 | 2327.3 | 2913.4 | 4223.2 | 6380.3 | 8048.9 | 5914.9 | 4028.3 | 2902.5 | 2268.5 | 2186.6 |
| 65° | 1639.2 | 1699.5 | 2265.4 | 3666.5 | 6126.7 | 7991.7 | 5826.7 | 3620.1 | 2347.4 | 1731.9 | 1648.4 |
| 67.5° | 603.1 | 627.8 | 889.2 | 1834.0 | 4399.4 | 6810.2 | 4617.5 | 1990.2 | 1031.4 | 734.5 | 660.3 |
| 70° | 279.9 | 281.4 | 329.4 | 606.2 | 1923.7 | 4554.1 | 2203.6 | 746.9 | 388.1 | 307.7 | 286.1 |
| 72.5° | 205.7 | 210.3 | 230.4 | 279.9 | 566.0 | 1928.3 | 723.7 | 306.2 | 227.3 | 201.0 | 196.4 |
| 75° | 167.0 | 170.1 | 176.3 | 202.6 | 261.3 | 516.5 | 293.8 | 211.9 | 180.9 | 162.4 | 156.2 |
| 77.5° | 128.3 | 128.3 | 142.3 | 154.6 | 173.2 | 241.2 | 194.8 | 168.6 | 146.9 | 128.3 | 123.7 |
| 80° | 92.8 | 94.3 | 111.3 | 120.6 | 117.5 | 159.3 | 140.7 | 139.2 | 120.6 | 100.5 | 92.8 |
| 82.5° | 54.1 | 58.8 | 80.4 | 86.6 | 83.5 | 94.3 | 102.1 | 108.2 | 94.3 | 69.6 | 63.4 |
| 85° | 30.9 | 32.5 | 46.4 | 47.9 | 47.9 | 44.8 | 58.8 | 64.9 | 63.4 | 43.3 | 38.7 |
| 87.5° | 9.3 | 9.3 | 12.4 | 12.4 | 13.9 | 15.5 | 23.2 | 27.8 | 30.9 | 21.6 | 20.1 |
| 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° | 1578.9 | 1578.9 | 1578.9 | 1578.9 | 1578.9 | 1578.9 | 1578.9 | 1578.9 | 1578.9 | 1578.9 | 1578.9 |
| 2.5° | 1603.6 | 1580.4 | 1581.9 | 1588.1 | 1568.0 | 1575.8 | 1599.0 | 1581.9 | 1577.3 | 1568.0 | 1563.4 |
| 5° | 1595.9 | 1620.6 | 1611.3 | 1614.4 | 1609.8 | 1588.1 | 1585.0 | 1599.0 | 1606.7 | 1592.8 | 1620.6 |
| 7.5° | 1650.0 | 1639.2 | 1626.8 | 1631.4 | 1620.6 | 1639.2 | 1651.5 | 1623.7 | 1637.6 | 1629.9 | 1614.4 |
| 10° | 1680.9 | 1660.8 | 1670.1 | 1667.0 | 1659.3 | 1677.8 | 1665.4 | 1662.4 | 1650.0 | 1633.0 | 1657.7 |
| 12.5° | 1691.7 | 1714.9 | 1730.4 | 1704.1 | 1708.7 | 1699.5 | 1691.7 | 1691.7 | 1677.8 | 1673.2 | 1677.8 |
| 15° | 1739.7 | 1759.8 | 1753.6 | 1773.7 | 1747.4 | 1756.7 | 1766.0 | 1742.8 | 1755.1 | 1721.1 | 1747.4 |
| 17.5° | 1827.8 | 1810.8 | 1832.5 | 1806.2 | 1815.4 | 1834.0 | 1804.6 | 1804.6 | 1813.9 | 1795.3 | 1772.1 |
| 20° | 1883.5 | 1875.8 | 1868.0 | 1869.6 | 1854.1 | 1871.1 | 1861.8 | 1857.2 | 1843.3 | 1849.5 | 1861.8 |
| 22.5° | 1936.1 | 1925.2 | 1928.3 | 1933.0 | 1943.8 | 1936.1 | 1931.4 | 1936.1 | 1902.0 | 1933.0 | 1889.7 |
| 25° | 2001.0 | 2030.4 | 2021.1 | 2041.2 | 2010.3 | 2030.4 | 2028.8 | 1999.5 | 2018.0 | 2005.7 | 1996.4 |
| 27.5° | 2109.3 | 2093.8 | 2107.7 | 2083.0 | 2104.6 | 2106.2 | 2087.6 | 2137.1 | 2115.4 | 2112.4 | 2106.2 |
| 30° | 2248.4 | 2237.6 | 2228.3 | 2214.4 | 2231.4 | 2217.5 | 2233.0 | 2237.6 | 2217.5 | 2202.0 | 2172.7 |
| 32.5° | 2327.3 | 2356.7 | 2367.5 | 2333.5 | 2335.0 | 2342.8 | 2328.8 | 2314.9 | 2327.3 | 2331.9 | 2327.3 |
| 35° | 2438.6 | 2466.5 | 2472.7 | 2446.4 | 2432.5 | 2471.1 | 2443.3 | 2489.7 | 2449.5 | 2451.0 | 2409.3 |
| 37.5° | 2568.5 | 2576.3 | 2628.8 | 2599.5 | 2587.1 | 2568.5 | 2619.6 | 2613.4 | 2622.7 | 2548.4 | 2585.5 |
| 40° | 2715.4 | 2743.3 | 2772.7 | 2698.4 | 2696.9 | 2713.9 | 2710.8 | 2746.4 | 2729.4 | 2718.5 | 2692.2 |
| 42.5° | 2876.3 | 2935.0 | 2939.7 | 2890.2 | 2859.3 | 2856.2 | 2871.6 | 2950.5 | 2952.0 | 2880.9 | 2850.0 |
| 45° | 3089.7 | 3154.6 | 3137.6 | 3041.7 | 3007.7 | 3003.1 | 3078.8 | 3112.9 | 3142.2 | 3114.4 | 3088.1 |
| 47.5° | 3355.6 | 3398.9 | 3386.6 | 3298.4 | 3188.6 | 3219.6 | 3293.8 | 3400.5 | 3369.6 | 3332.4 | 3301.5 |
| 50° | 3640.2 | 3691.2 | 3664.9 | 3576.8 | 3471.6 | 3471.6 | 3562.9 | 3698.9 | 3689.7 | 3617.0 | 3589.1 |
| 52.5° | 3955.6 | 4029.9 | 4090.2 | 3964.9 | 3876.8 | 3890.7 | 4034.5 | 4084.0 | 4060.8 | 4009.8 | 3986.6 |
| 55° | 4190.7 | 4332.9 | 4456.7 | 4462.8 | 4467.5 | 4465.9 | 4503.0 | 4552.5 | 4387.1 | 4305.1 | 4221.6 |
| 57.5° | 4133.5 | 4402.5 | 4826.2 | 5113.9 | 5198.9 | 5243.8 | 5231.4 | 5002.5 | 4611.3 | 4342.2 | 4370.1 |
| 60° | 3725.2 | 4164.4 | 4847.9 | 5771.1 | 6389.6 | 6327.8 | 6102.0 | 5197.4 | 4487.6 | 4032.9 | 3975.7 |
| 62.5° | 2972.1 | 3501.0 | 4484.5 | 5956.6 | 7660.7 | 7642.2 | 6460.8 | 4747.4 | 3739.1 | 3163.9 | 3128.3 |
| 64° | 2239.2 | 2795.8 | 4000.5 | 5908.7 | 8106.1 | 8124.7 | 6369.5 | 4193.8 | 2925.7 | 2239.2 | 2185.0 |
| 65° | 1713.4 | 2229.9 | 3525.7 | 5809.7 | 8010.2 | 8021.1 | 6115.9 | 3621.6 | 2223.7 | 1589.7 | 1530.9 |
| 67.5° | 682.0 | 949.5 | 1912.9 | 4405.6 | 6878.3 | 6848.9 | 4363.9 | 1752.0 | 850.5 | 553.6 | 542.8 |
| 70° | 290.7 | 361.9 | 671.1 | 2087.6 | 4605.1 | 4520.1 | 1878.8 | 569.1 | 315.5 | 264.4 | 262.9 |
| 72.5° | 199.5 | 221.1 | 287.6 | 644.8 | 1914.4 | 1869.6 | 535.0 | 264.4 | 214.9 | 197.9 | 197.9 |
| 75° | 160.8 | 176.3 | 208.8 | 270.6 | 507.2 | 488.7 | 252.1 | 194.8 | 171.6 | 159.3 | 157.7 |
| 77.5° | 125.3 | 140.7 | 163.9 | 187.1 | 232.0 | 230.4 | 168.6 | 146.9 | 133.0 | 123.7 | 120.6 |
| 80° | 99.0 | 114.4 | 129.9 | 133.0 | 151.5 | 148.5 | 114.4 | 116.0 | 108.2 | 89.7 | 88.1 |
| 82.5° | 68.0 | 92.8 | 103.6 | 94.3 | 89.7 | 89.7 | 82.0 | 82.0 | 75.8 | 55.7 | 51.0 |
| 85° | 41.8 | 61.9 | 64.9 | 55.7 | 41.8 | 41.8 | 44.8 | 43.3 | 40.2 | 29.4 | 27.8 |
| 87.5° | 21.6 | 29.4 | 26.3 | 21.6 | 13.9 | 13.9 | 12.4 | 9.3 | 9.3 | 7.7 | 7.7 |
| 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)