

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: P479362

Luminaire Tested: **IFLD-S-SA2C-750-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479362
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-750-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

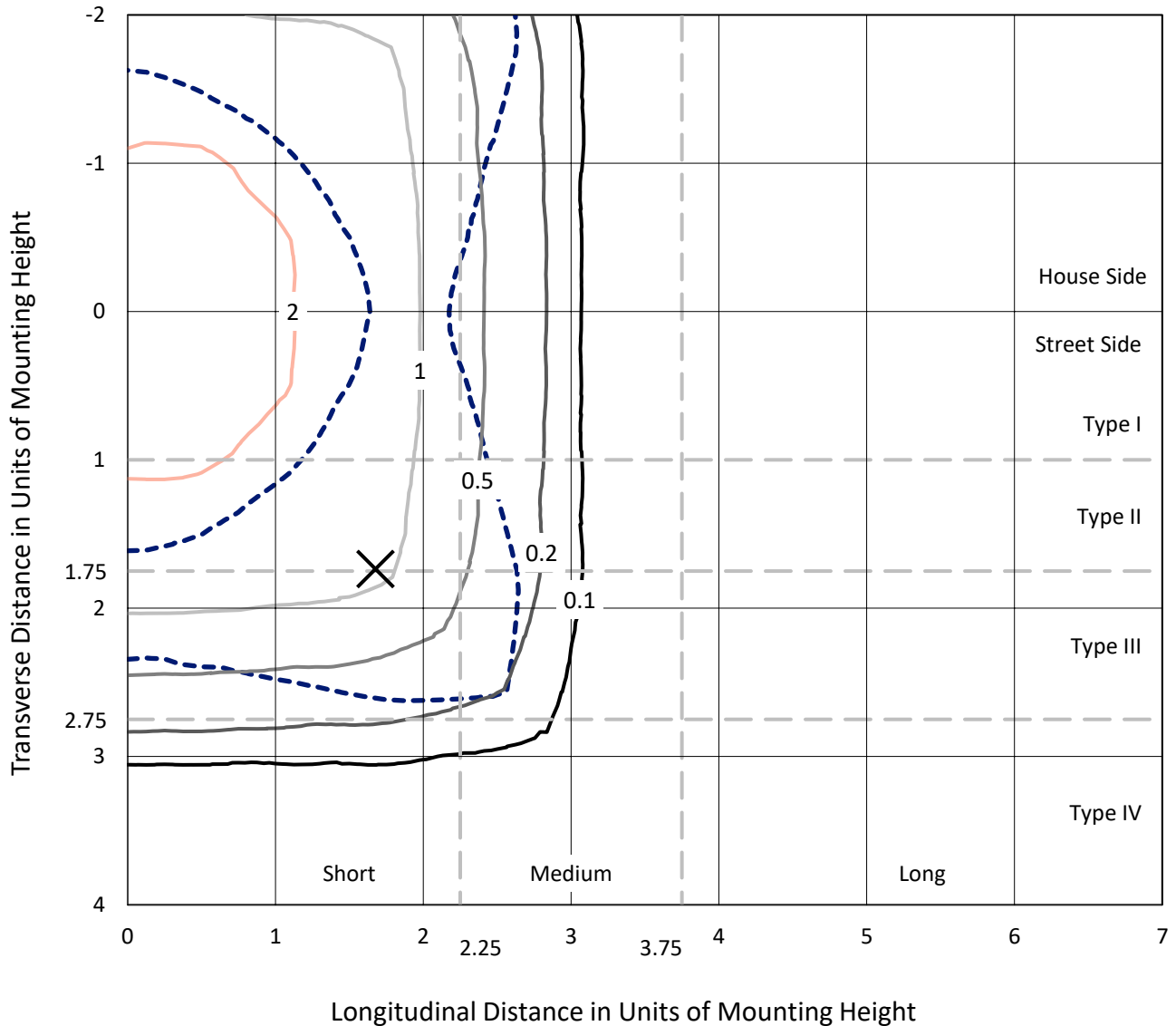
Lumens per Lamp: N/A
Luminaire Lumens: 14675.7 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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

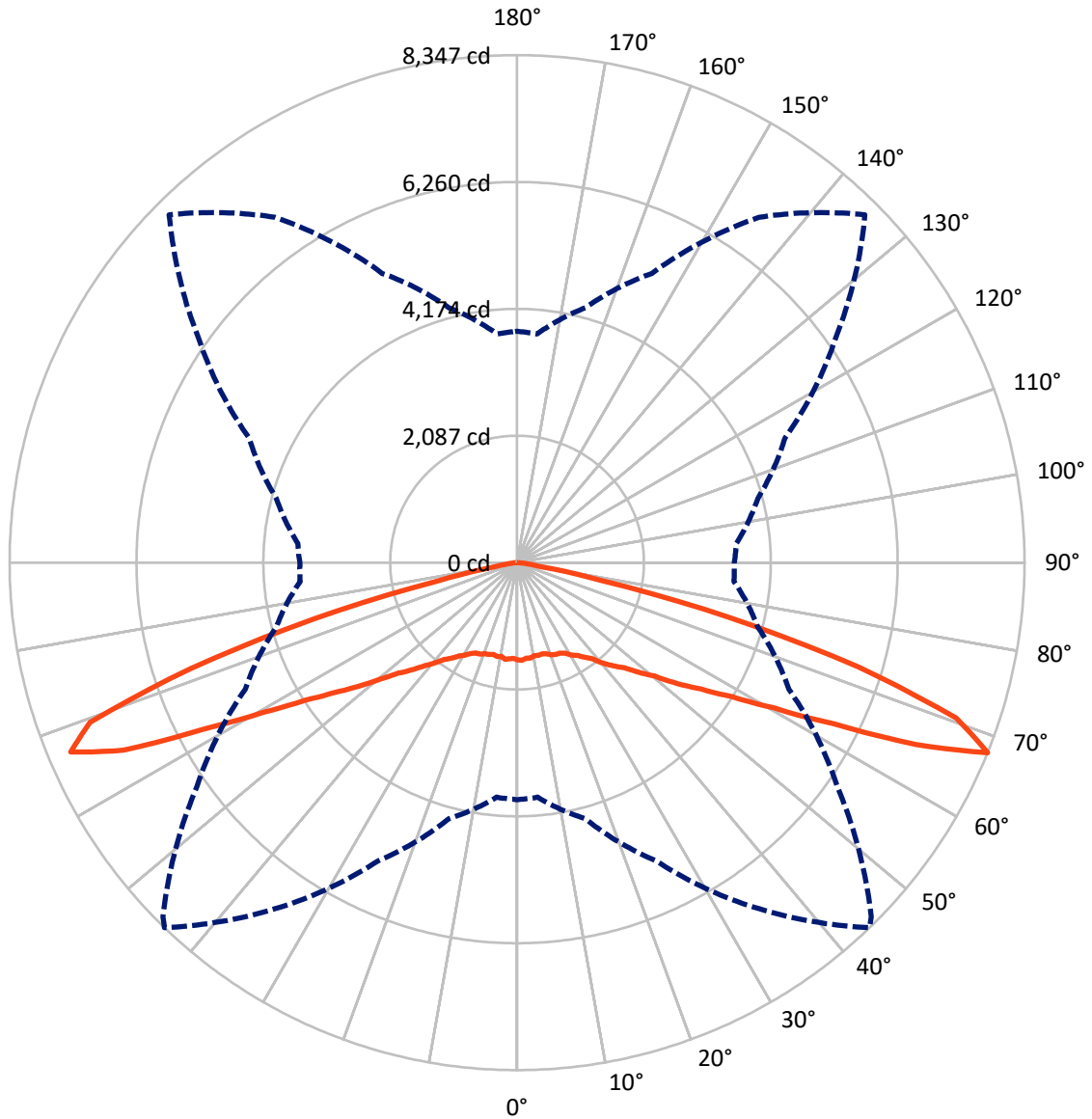
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7319.1 | 0.0 | 7319.1 |
| | % Fixture | 49.9 | 0.0 | 49.9 |
| Street Side | Lumens | 7356.6 | 0.0 | 7356.6 |
| | % Fixture | 50.1 | 0.0 | 50.1 |
| Total | Lumens | 14675.7 | 0.0 | 14675.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 151.7 | 1.0 |
| 10°-20° | 443.2 | 3.0 |
| 20°-30° | 753.7 | 5.1 |
| 30°-40° | 1194.9 | 8.1 |
| 40°-50° | 1948.5 | 13.3 |
| 50°-60° | 3327.7 | 22.7 |
| 60°-70° | 5061.4 | 34.5 |
| 70°-80° | 1706.0 | 11.6 |
| 80°-90° | 88.6 | 0.6 |
| 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° | 14675.7 | 100.0 |
| 0°-180° | 14675.7 | 100.0 |

Coefficient of Utilization



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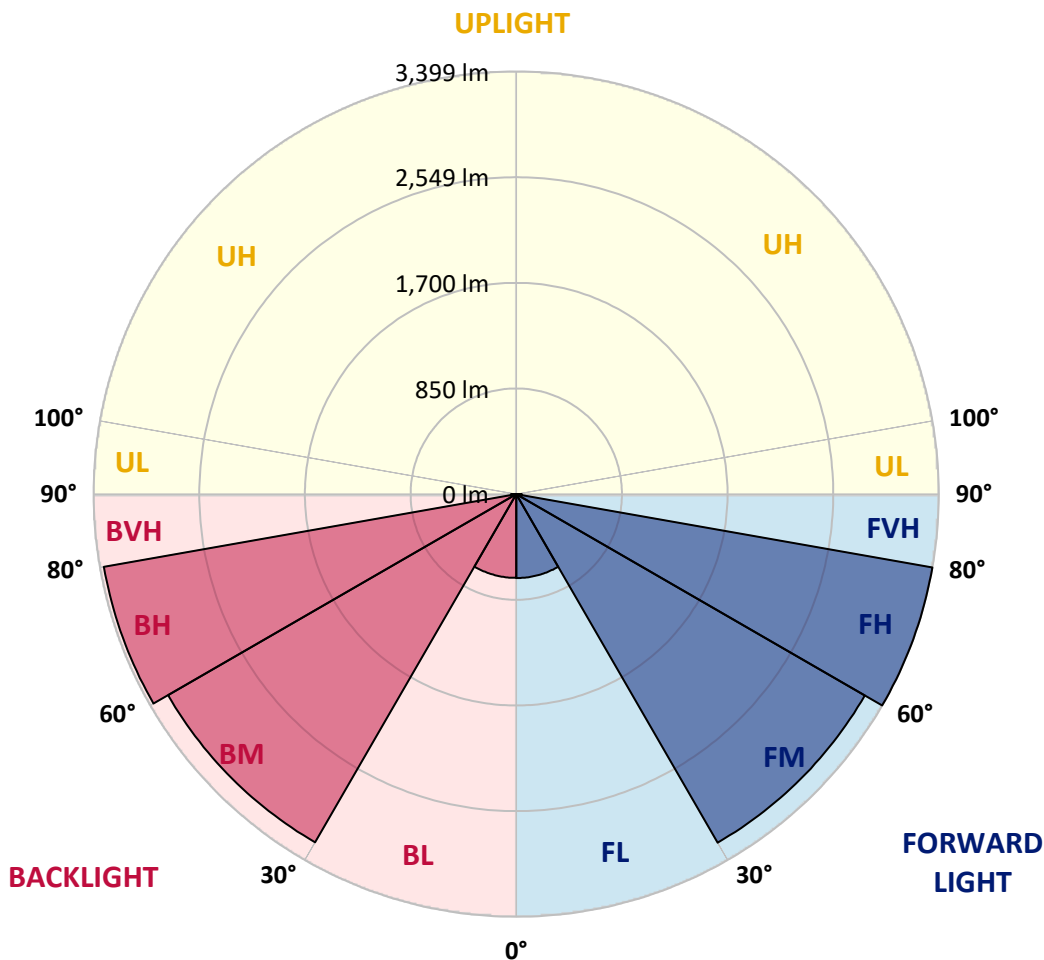
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 675.0 | 4.6 | | | |
| FM (30°-60°) | 3237.3 | 22.1 | | | |
| FH (60°-80°) | 3399.0 | 23.2 | | | G2/5000 |
| FVH (80°-90°) | 45.3 | 0.3 | | | G1/100 |
| BL (0°-30°) | 673.6 | 4.6 | B2/1000 | | |
| BM (30°-60°) | 3233.8 | 22.0 | B3/5000 | | |
| BH (60°-80°) | 3368.4 | 23.0 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 43.3 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1603.1 | 1603.1 | 1603.1 | 1603.1 | 1603.1 | 1603.1 | 1603.1 | 1603.1 | 1603.1 | 1603.1 | 1603.1 |
| 2.5° | 1566.2 | 1584.6 | 1598.0 | 1596.4 | 1601.4 | 1606.4 | 1599.7 | 1609.8 | 1603.1 | 1614.8 | 1621.5 |
| 5° | 1596.4 | 1591.3 | 1593.0 | 1583.0 | 1606.4 | 1579.6 | 1579.6 | 1593.0 | 1609.8 | 1589.7 | 1601.4 |
| 7.5° | 1577.9 | 1574.6 | 1566.2 | 1581.3 | 1586.3 | 1586.3 | 1599.7 | 1574.6 | 1603.1 | 1609.8 | 1611.4 |
| 10° | 1557.8 | 1539.4 | 1564.5 | 1579.6 | 1583.0 | 1556.2 | 1567.9 | 1574.6 | 1566.2 | 1574.6 | 1579.6 |
| 12.5° | 1541.1 | 1551.1 | 1551.1 | 1551.1 | 1546.1 | 1564.5 | 1576.3 | 1574.6 | 1557.8 | 1572.9 | 1546.1 |
| 15° | 1539.4 | 1534.4 | 1549.5 | 1562.9 | 1554.5 | 1557.8 | 1562.9 | 1577.9 | 1546.1 | 1552.8 | 1552.8 |
| 17.5° | 1537.7 | 1544.4 | 1549.5 | 1547.8 | 1576.3 | 1576.3 | 1571.2 | 1561.2 | 1586.3 | 1572.9 | 1554.5 |
| 20° | 1544.4 | 1539.4 | 1552.8 | 1557.8 | 1577.9 | 1618.1 | 1603.1 | 1594.7 | 1581.3 | 1564.5 | 1564.5 |
| 22.5° | 1552.8 | 1549.5 | 1567.9 | 1589.7 | 1628.2 | 1638.2 | 1636.6 | 1626.5 | 1603.1 | 1583.0 | 1579.6 |
| 25° | 1583.0 | 1552.8 | 1572.9 | 1614.8 | 1628.2 | 1648.3 | 1661.7 | 1648.3 | 1616.5 | 1621.5 | 1591.3 |
| 27.5° | 1628.2 | 1623.2 | 1650.0 | 1678.4 | 1666.7 | 1685.1 | 1673.4 | 1683.5 | 1685.1 | 1660.0 | 1629.9 |
| 30° | 1681.8 | 1666.7 | 1683.5 | 1738.7 | 1743.8 | 1763.9 | 1743.8 | 1717.0 | 1725.3 | 1703.6 | 1688.5 |
| 32.5° | 1758.8 | 1753.8 | 1785.7 | 1822.5 | 1829.2 | 1819.2 | 1809.1 | 1824.2 | 1789.0 | 1772.2 | 1745.4 |
| 35° | 1809.1 | 1830.9 | 1869.4 | 1897.9 | 1919.7 | 1909.6 | 1914.6 | 1899.6 | 1907.9 | 1872.8 | 1861.0 |
| 37.5° | 1958.2 | 1949.8 | 1958.2 | 2006.8 | 2011.8 | 2006.8 | 2011.8 | 2028.5 | 2016.8 | 1986.7 | 1956.5 |
| 40° | 2098.9 | 2085.5 | 2105.6 | 2160.9 | 2157.5 | 2174.3 | 2140.8 | 2159.2 | 2159.2 | 2102.2 | 2090.5 |
| 42.5° | 2204.4 | 2249.7 | 2273.1 | 2318.3 | 2335.1 | 2320.0 | 2313.3 | 2316.7 | 2353.5 | 2286.5 | 2261.4 |
| 45° | 2422.2 | 2420.5 | 2490.9 | 2516.0 | 2469.1 | 2465.7 | 2452.3 | 2492.5 | 2517.7 | 2479.1 | 2469.1 |
| 47.5° | 2658.4 | 2670.1 | 2710.3 | 2720.4 | 2748.8 | 2696.9 | 2696.9 | 2701.9 | 2790.7 | 2700.3 | 2653.3 |
| 50° | 2871.1 | 2886.2 | 2966.6 | 3045.3 | 2991.7 | 2936.4 | 2958.2 | 2985.0 | 3033.6 | 2948.2 | 2908.0 |
| 52.5° | 3129.1 | 3211.2 | 3264.8 | 3306.6 | 3345.2 | 3306.6 | 3256.4 | 3286.5 | 3382.0 | 3268.1 | 3217.9 |
| 55° | 3500.9 | 3566.3 | 3616.5 | 3693.6 | 3725.4 | 3673.5 | 3668.5 | 3665.1 | 3718.7 | 3598.1 | 3529.4 |
| 57.5° | 3916.4 | 3889.6 | 3970.0 | 4088.9 | 4204.5 | 4154.2 | 4139.2 | 4142.5 | 4155.9 | 3985.0 | 3933.1 |
| 60° | 4432.3 | 4462.5 | 4557.9 | 4661.8 | 4784.1 | 4854.4 | 4755.6 | 4698.6 | 4710.4 | 4477.5 | 4397.1 |
| 62.5° | 4727.1 | 4794.1 | 5010.2 | 5367.0 | 5613.2 | 5832.7 | 5847.8 | 5477.6 | 5229.6 | 4777.4 | 4435.6 |
| 65° | 4584.7 | 4574.7 | 4981.7 | 5641.7 | 6574.7 | 7213.0 | 7117.5 | 6219.6 | 5353.6 | 4635.0 | 4176.0 |
| 67.5° | 3899.6 | 3872.8 | 4365.3 | 5412.2 | 6953.3 | 8347.0 | 8238.1 | 6429.0 | 4934.8 | 4100.6 | 3581.4 |
| 70° | 2512.6 | 2505.9 | 3040.3 | 4125.8 | 6207.9 | 7663.6 | 7703.8 | 5839.4 | 4016.9 | 3003.4 | 2489.2 |
| 72.5° | 912.9 | 968.2 | 1278.1 | 2217.8 | 4216.2 | 5862.8 | 5888.0 | 4323.4 | 2310.0 | 1388.7 | 1023.5 |
| 75° | 336.7 | 346.7 | 403.7 | 720.3 | 1921.3 | 3599.8 | 3693.6 | 2097.2 | 820.8 | 452.3 | 368.5 |
| 77.5° | 194.3 | 196.0 | 216.1 | 268.0 | 569.5 | 1405.4 | 1462.4 | 636.5 | 318.3 | 241.2 | 222.8 |
| 80° | 132.3 | 130.7 | 152.4 | 174.2 | 227.8 | 398.7 | 423.8 | 266.3 | 201.0 | 167.5 | 140.7 |
| 82.5° | 77.1 | 82.1 | 112.2 | 124.0 | 139.0 | 175.9 | 179.2 | 165.8 | 150.8 | 124.0 | 92.1 |
| 85° | 46.9 | 38.5 | 62.0 | 68.7 | 80.4 | 78.7 | 78.7 | 90.5 | 97.2 | 87.1 | 51.9 |
| 87.5° | 11.7 | 11.7 | 15.1 | 16.8 | 21.8 | 16.8 | 18.4 | 35.2 | 46.9 | 43.6 | 26.8 |
| 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° | 1603.1 | 1603.1 | 1603.1 | 1603.1 | 1603.1 | 1603.1 | 1603.1 | 1603.1 | 1603.1 | 1603.1 | 1603.1 |
| 2.5° | 1606.4 | 1601.4 | 1604.7 | 1623.2 | 1611.4 | 1576.3 | 1584.6 | 1603.1 | 1588.0 | 1579.6 | 1577.9 |
| 5° | 1599.7 | 1609.8 | 1598.0 | 1601.4 | 1613.1 | 1584.6 | 1589.7 | 1613.1 | 1603.1 | 1606.4 | 1588.0 |
| 7.5° | 1601.4 | 1606.4 | 1596.4 | 1581.3 | 1581.3 | 1604.7 | 1591.3 | 1594.7 | 1579.6 | 1604.7 | 1571.2 |
| 10° | 1591.3 | 1577.9 | 1566.2 | 1574.6 | 1571.2 | 1564.5 | 1559.5 | 1569.6 | 1554.5 | 1576.3 | 1552.8 |
| 12.5° | 1561.2 | 1564.5 | 1561.2 | 1557.8 | 1564.5 | 1581.3 | 1554.5 | 1557.8 | 1534.4 | 1537.7 | 1549.5 |
| 15° | 1549.5 | 1559.5 | 1556.2 | 1574.6 | 1583.0 | 1557.8 | 1577.9 | 1557.8 | 1539.4 | 1529.4 | 1547.8 |
| 17.5° | 1554.5 | 1569.6 | 1564.5 | 1577.9 | 1562.9 | 1581.3 | 1584.6 | 1576.3 | 1554.5 | 1546.1 | 1554.5 |
| 20° | 1559.5 | 1554.5 | 1561.2 | 1584.6 | 1606.4 | 1588.0 | 1588.0 | 1583.0 | 1562.9 | 1551.1 | 1551.1 |
| 22.5° | 1571.2 | 1562.9 | 1572.9 | 1591.3 | 1598.0 | 1626.5 | 1601.4 | 1589.7 | 1556.2 | 1526.0 | 1554.5 |
| 25° | 1594.7 | 1599.7 | 1606.4 | 1599.7 | 1636.6 | 1633.2 | 1629.9 | 1621.5 | 1569.6 | 1571.2 | 1566.2 |
| 27.5° | 1639.9 | 1611.4 | 1619.8 | 1660.0 | 1665.0 | 1678.4 | 1661.7 | 1676.8 | 1621.5 | 1623.2 | 1589.7 |
| 30° | 1695.2 | 1665.0 | 1691.8 | 1727.0 | 1725.3 | 1750.5 | 1742.1 | 1745.4 | 1706.9 | 1685.1 | 1639.9 |
| 32.5° | 1755.5 | 1752.1 | 1768.9 | 1790.7 | 1799.1 | 1812.5 | 1810.8 | 1810.8 | 1787.3 | 1730.4 | 1738.7 |
| 35° | 1822.5 | 1846.0 | 1866.1 | 1889.5 | 1892.9 | 1909.6 | 1886.2 | 1889.5 | 1866.1 | 1824.2 | 1837.6 |
| 37.5° | 1954.8 | 1953.2 | 1974.9 | 2003.4 | 2006.8 | 1993.4 | 2011.8 | 2003.4 | 1971.6 | 1943.1 | 1921.3 |
| 40° | 2108.9 | 2075.4 | 2095.5 | 2162.5 | 2167.6 | 2144.1 | 2142.4 | 2140.8 | 2117.3 | 2055.3 | 2041.9 |
| 42.5° | 2243.0 | 2286.5 | 2283.2 | 2304.9 | 2289.9 | 2278.1 | 2320.0 | 2296.6 | 2278.1 | 2212.8 | 2201.1 |
| 45° | 2415.5 | 2428.9 | 2472.4 | 2542.8 | 2470.8 | 2470.8 | 2499.2 | 2480.8 | 2470.8 | 2422.2 | 2377.0 |
| 47.5° | 2629.9 | 2641.6 | 2728.7 | 2733.8 | 2686.9 | 2655.0 | 2743.8 | 2747.2 | 2705.3 | 2668.4 | 2613.1 |
| 50° | 2881.2 | 2886.2 | 2964.9 | 3045.3 | 2993.4 | 2933.1 | 3023.5 | 3058.7 | 2964.9 | 2914.7 | 2846.0 |
| 52.5° | 3157.6 | 3142.5 | 3207.8 | 3358.6 | 3308.3 | 3289.9 | 3387.0 | 3395.4 | 3268.1 | 3189.4 | 3207.8 |
| 55° | 3475.8 | 3455.7 | 3633.3 | 3735.5 | 3703.6 | 3670.1 | 3713.7 | 3733.8 | 3631.6 | 3502.6 | 3547.8 |
| 57.5° | 3887.9 | 3897.9 | 3986.7 | 4087.2 | 4139.2 | 4147.5 | 4167.6 | 4147.5 | 4043.7 | 3913.0 | 3871.1 |
| 60° | 4300.0 | 4330.1 | 4502.7 | 4691.9 | 4708.7 | 4856.1 | 4829.3 | 4728.8 | 4581.4 | 4395.4 | 4403.8 |
| 62.5° | 4452.4 | 4427.3 | 4705.3 | 5167.7 | 5561.3 | 5831.0 | 5712.1 | 5355.3 | 5013.6 | 4675.2 | 4700.3 |
| 65° | 4145.9 | 4207.8 | 4586.4 | 5310.0 | 6164.3 | 7231.4 | 6598.2 | 5611.6 | 4921.4 | 4484.2 | 4435.6 |
| 67.5° | 3573.0 | 3619.9 | 4100.6 | 4864.5 | 6380.4 | 8092.4 | 6933.2 | 5249.7 | 4340.2 | 3774.0 | 3804.1 |
| 70° | 2489.2 | 2512.6 | 2983.3 | 3985.0 | 5785.8 | 7636.8 | 6254.8 | 4032.0 | 2996.7 | 2388.7 | 2422.2 |
| 72.5° | 1001.7 | 1058.7 | 1368.6 | 2400.4 | 4271.5 | 5802.5 | 4211.2 | 2115.6 | 1242.9 | 924.7 | 839.2 |
| 75° | 370.2 | 371.9 | 437.2 | 825.8 | 2028.5 | 3646.7 | 1899.6 | 680.1 | 397.0 | 325.0 | 309.9 |
| 77.5° | 214.4 | 212.7 | 227.8 | 298.2 | 588.0 | 1423.8 | 539.4 | 266.3 | 216.1 | 194.3 | 185.9 |
| 80° | 134.0 | 132.3 | 155.8 | 197.7 | 258.0 | 390.3 | 227.8 | 165.8 | 145.7 | 125.6 | 125.6 |
| 82.5° | 85.4 | 87.1 | 122.3 | 145.7 | 157.5 | 172.5 | 132.3 | 117.3 | 108.9 | 72.0 | 70.4 |
| 85° | 55.3 | 50.3 | 85.4 | 97.2 | 87.1 | 77.1 | 73.7 | 62.0 | 57.0 | 35.2 | 38.5 |
| 87.5° | 25.1 | 26.8 | 43.6 | 48.6 | 31.8 | 18.4 | 18.4 | 13.4 | 13.4 | 8.4 | 8.4 |
| 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)