

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: P481196

Luminaire Tested: **IFLD-S-SA2D-730-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481196  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-730-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

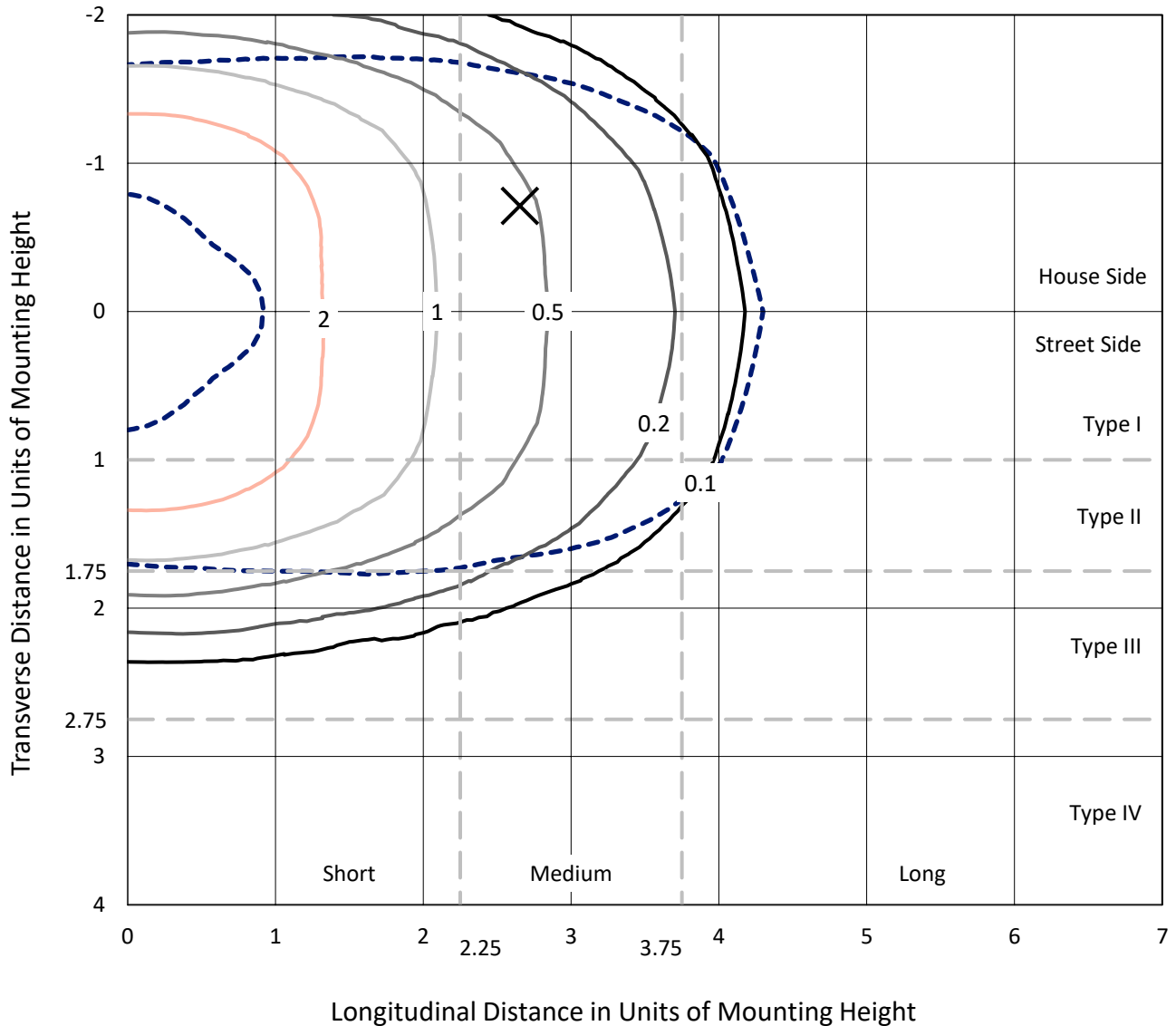
Lumens per Lamp: N/A  
Luminaire Lumens: 14669 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 123.9  
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

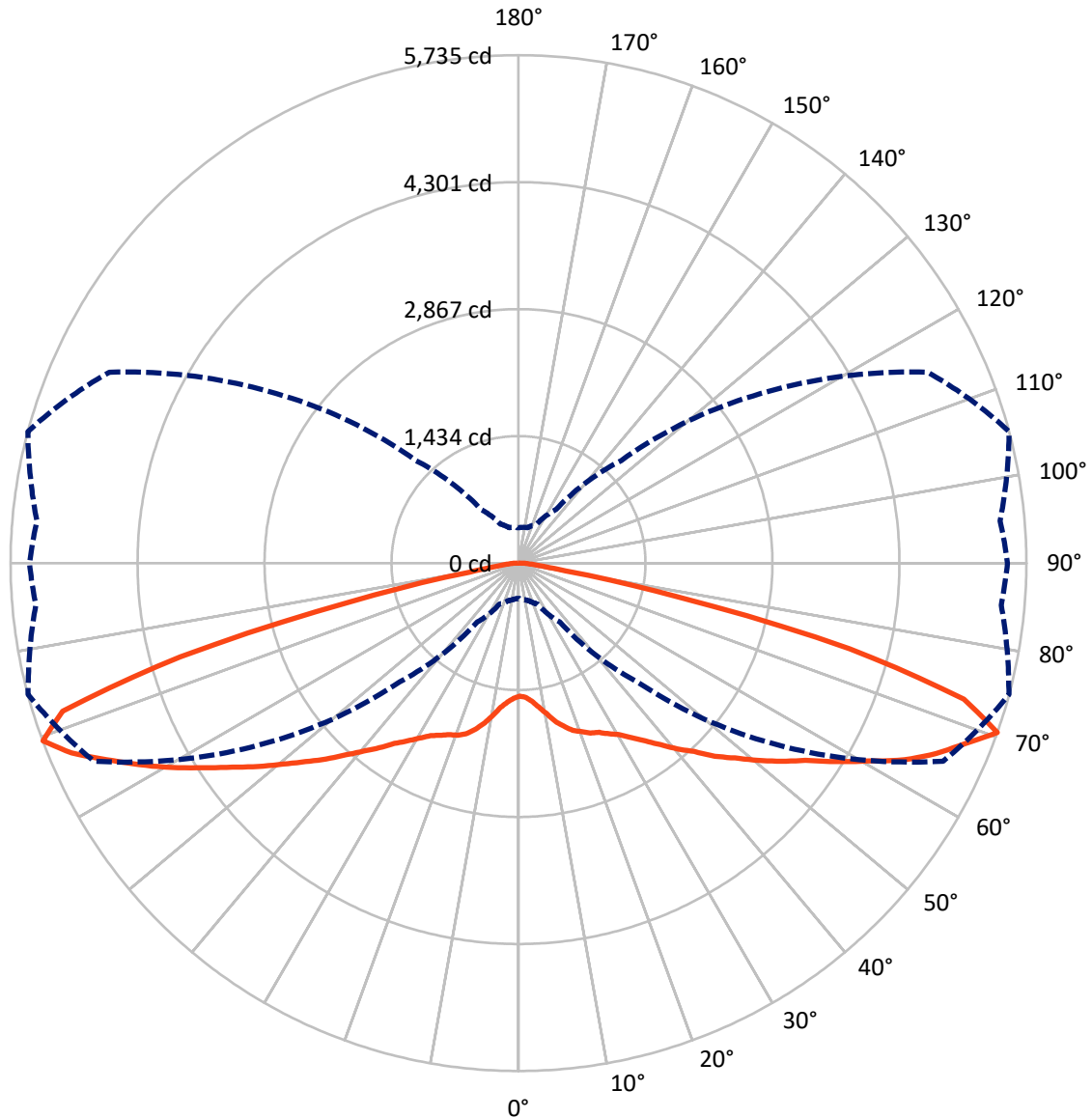
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7282.3   | 0.0    | 7282.3  |
|                    | % Fixture | 49.6     | 0.0    | 49.6    |
| <b>Street Side</b> | Lumens    | 7386.7   | 0.0    | 7386.7  |
|                    | % Fixture | 50.4     | 0.0    | 50.4    |
| <b>Total</b>       | Lumens    | 14669.0  | 0.0    | 14669.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 149.5   | 1.0       |
| 10°-20°   | 509.1   | 3.5       |
| 20°-30°   | 985.7   | 6.7       |
| 30°-40°   | 1667.3  | 11.4      |
| 40°-50°   | 2659.8  | 18.1      |
| 50°-60°   | 3640.7  | 24.8      |
| 60°-70°   | 3431.6  | 23.4      |
| 70°-80°   | 1511.7  | 10.3      |
| 80°-90°   | 113.7   | 0.8       |
| 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°    | 14669.0 | 100.0     |
| 0°-180°   | 14669.0 | 100.0     |

**Coefficient of Utilization**



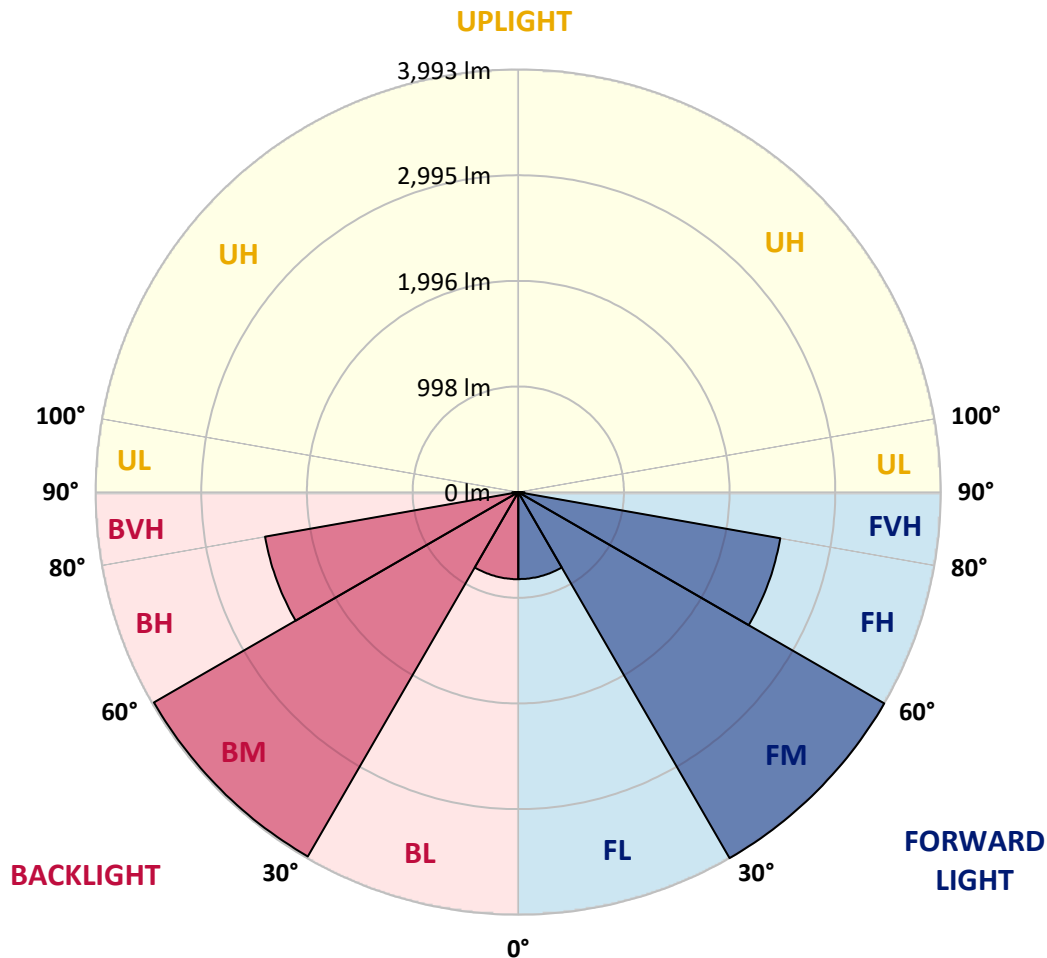
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 821.7  | 5.6       |                         |      |         |
| FM (30°-60°)   | 3992.8 | 27.2      |                         |      |         |
| FH (60°-80°)   | 2514.1 | 17.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 58.1   | 0.4       |                         |      | G1/100  |
| BL (0°-30°)    | 822.6  | 5.6       | B2/1000                 |      |         |
| BM (30°-60°)   | 3974.9 | 27.1      | B3/5000                 |      |         |
| BH (60°-80°)   | 2429.2 | 16.6      | B3/2500                 |      | G3/2500 |
| BVH (80°-90°)  | 55.6   | 0.4       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1502.1 | 1502.1 | 1502.1 | 1502.1 | 1502.1 | 1502.1 | 1502.1 | 1502.1 | 1502.1 | 1502.1 | 1502.1 |
| 2.5°  | 1492.6 | 1492.6 | 1491.0 | 1498.9 | 1506.8 | 1510.0 | 1516.3 | 1517.9 | 1527.4 | 1519.5 | 1535.3 |
| 5°    | 1487.9 | 1486.3 | 1498.9 | 1517.9 | 1517.9 | 1538.5 | 1551.1 | 1568.5 | 1573.2 | 1582.7 | 1585.9 |
| 7.5°  | 1521.1 | 1517.9 | 1511.6 | 1532.1 | 1549.5 | 1581.1 | 1598.5 | 1628.6 | 1639.6 | 1652.3 | 1666.5 |
| 10°   | 1541.6 | 1541.6 | 1535.3 | 1571.7 | 1587.5 | 1630.2 | 1668.1 | 1698.2 | 1740.8 | 1755.1 | 1756.7 |
| 12.5° | 1544.8 | 1549.5 | 1568.5 | 1615.9 | 1660.2 | 1715.5 | 1744.0 | 1800.9 | 1843.6 | 1870.5 | 1880.0 |
| 15°   | 1592.2 | 1582.7 | 1603.3 | 1668.1 | 1732.9 | 1782.0 | 1832.5 | 1873.7 | 1935.3 | 1970.1 | 1992.2 |
| 17.5° | 1634.9 | 1625.4 | 1663.4 | 1740.8 | 1807.3 | 1883.1 | 1927.4 | 1971.7 | 2016.0 | 2047.6 | 2049.2 |
| 20°   | 1702.9 | 1710.8 | 1744.0 | 1827.8 | 1914.8 | 1981.2 | 2031.8 | 2039.7 | 2061.8 | 2107.7 | 2099.8 |
| 22.5° | 1786.7 | 1780.4 | 1849.9 | 1941.6 | 2036.5 | 2091.9 | 2120.3 | 2099.8 | 2088.7 | 2137.7 | 2148.8 |
| 25°   | 1870.5 | 1889.5 | 1952.7 | 2038.1 | 2151.9 | 2226.3 | 2234.2 | 2177.2 | 2136.1 | 2153.5 | 2148.8 |
| 27.5° | 1998.6 | 2001.7 | 2068.1 | 2169.3 | 2284.8 | 2349.6 | 2344.8 | 2264.2 | 2185.1 | 2186.7 | 2189.9 |
| 30°   | 2163.0 | 2147.2 | 2219.9 | 2311.6 | 2425.5 | 2484.0 | 2491.9 | 2376.5 | 2270.5 | 2238.9 | 2246.8 |
| 32.5° | 2321.1 | 2340.1 | 2403.3 | 2507.7 | 2591.5 | 2624.7 | 2607.3 | 2504.5 | 2367.0 | 2324.3 | 2329.0 |
| 35°   | 2523.5 | 2520.3 | 2607.3 | 2695.9 | 2759.1 | 2765.4 | 2751.2 | 2601.0 | 2471.3 | 2416.0 | 2393.9 |
| 37.5° | 2740.1 | 2768.6 | 2825.5 | 2898.2 | 2964.6 | 2967.8 | 2890.3 | 2770.2 | 2610.5 | 2518.8 | 2545.6 |
| 40°   | 2982.0 | 3013.7 | 3054.8 | 3160.7 | 3209.7 | 3159.1 | 3080.1 | 2917.2 | 2751.2 | 2670.6 | 2683.2 |
| 42.5° | 3195.5 | 3209.7 | 3293.5 | 3418.4 | 3442.2 | 3420.0 | 3303.0 | 3105.4 | 2912.5 | 2823.9 | 2830.3 |
| 45°   | 3391.6 | 3410.5 | 3519.6 | 3631.9 | 3687.2 | 3649.3 | 3513.3 | 3325.2 | 3100.6 | 3024.7 | 2994.7 |
| 47.5° | 3571.8 | 3609.8 | 3715.7 | 3831.1 | 3916.5 | 3919.7 | 3752.1 | 3524.4 | 3287.2 | 3187.6 | 3186.0 |
| 50°   | 3693.6 | 3748.9 | 3853.3 | 3984.5 | 4109.4 | 4158.4 | 3990.8 | 3745.7 | 3491.2 | 3385.2 | 3374.2 |
| 52.5° | 3760.0 | 3816.9 | 3921.2 | 4125.2 | 4264.4 | 4340.2 | 4261.2 | 3952.9 | 3729.9 | 3619.2 | 3601.9 |
| 55°   | 3679.3 | 3717.3 | 3888.0 | 4174.2 | 4389.3 | 4514.2 | 4462.0 | 4239.1 | 3967.1 | 3877.0 | 3892.8 |
| 57.5° | 3336.2 | 3415.3 | 3625.6 | 3982.9 | 4386.1 | 4692.8 | 4688.1 | 4509.4 | 4240.6 | 4155.3 | 4158.4 |
| 60°   | 2746.5 | 2812.9 | 3072.2 | 3571.8 | 4209.0 | 4765.6 | 4933.2 | 4771.9 | 4547.4 | 4447.8 | 4444.6 |
| 62.5° | 1938.5 | 2022.3 | 2322.7 | 2868.2 | 3687.2 | 4664.4 | 5214.6 | 5102.4 | 4847.8 | 4775.1 | 4801.9 |
| 65°   | 1084.7 | 1135.3 | 1413.5 | 1906.9 | 2809.7 | 4107.8 | 5265.2 | 5445.5 | 5153.0 | 5042.3 | 5047.0 |
| 67.5° | 580.3  | 599.3  | 728.9  | 1000.9 | 1718.7 | 3167.0 | 4754.5 | 5643.1 | 5483.4 | 5292.1 | 5262.1 |
| 70°   | 398.4  | 404.8  | 438.0  | 512.3  | 812.7  | 1894.2 | 3586.0 | 5290.5 | 5731.7 | 5470.8 | 5521.4 |
| 72.5° | 336.8  | 333.6  | 341.5  | 349.4  | 425.3  | 847.5  | 2104.5 | 4071.5 | 5410.7 | 5312.7 | 5293.7 |
| 75°   | 292.5  | 290.9  | 294.1  | 286.2  | 295.7  | 373.2  | 931.3  | 2537.7 | 3960.8 | 4420.9 | 4492.0 |
| 77.5° | 241.9  | 243.5  | 245.1  | 237.2  | 234.0  | 246.7  | 374.7  | 1114.7 | 1949.6 | 2151.9 | 2321.1 |
| 80°   | 183.4  | 186.6  | 199.2  | 191.3  | 178.7  | 180.3  | 221.4  | 373.2  | 559.7  | 507.5  | 523.4  |
| 82.5° | 124.9  | 126.5  | 153.4  | 143.9  | 134.4  | 121.7  | 142.3  | 192.9  | 218.2  | 166.0  | 145.5  |
| 85°   | 88.5   | 87.0   | 99.6   | 91.7   | 85.4   | 61.7   | 85.4   | 109.1  | 131.2  | 82.2   | 74.3   |
| 87.5° | 20.6   | 20.6   | 41.1   | 33.2   | 31.6   | 25.3   | 33.2   | 42.7   | 56.9   | 36.4   | 33.2   |
| 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°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1502.1 | 1502.1 | 1502.1 | 1502.1 | 1502.1 | 1502.1 | 1502.1 | 1502.1 | 1502.1 | 1502.1 |
| 2.5°  | 1530.5 | 1516.3 | 1516.3 | 1513.2 | 1500.5 | 1497.3 | 1486.3 | 1489.4 | 1481.5 | 1473.6 |
| 5°    | 1584.3 | 1565.3 | 1565.3 | 1538.5 | 1513.2 | 1510.0 | 1497.3 | 1497.3 | 1484.7 | 1487.9 |
| 7.5°  | 1658.6 | 1641.2 | 1612.8 | 1589.1 | 1554.3 | 1540.0 | 1516.3 | 1513.2 | 1510.0 | 1503.7 |
| 10°   | 1747.2 | 1725.0 | 1696.6 | 1647.6 | 1619.1 | 1592.2 | 1568.5 | 1535.3 | 1527.4 | 1529.0 |
| 12.5° | 1867.3 | 1832.5 | 1770.9 | 1728.2 | 1691.8 | 1657.0 | 1622.3 | 1573.2 | 1562.2 | 1566.9 |
| 15°   | 1952.7 | 1908.4 | 1846.8 | 1831.0 | 1782.0 | 1739.3 | 1682.3 | 1627.0 | 1608.0 | 1603.3 |
| 17.5° | 2022.3 | 1985.9 | 1949.6 | 1925.8 | 1886.3 | 1834.1 | 1755.1 | 1691.8 | 1649.1 | 1644.4 |
| 20°   | 2079.2 | 2031.8 | 2023.9 | 2038.1 | 1989.1 | 1954.3 | 1857.8 | 1780.4 | 1723.4 | 1699.7 |
| 22.5° | 2114.0 | 2084.0 | 2106.1 | 2118.7 | 2115.6 | 2057.1 | 1957.5 | 1867.3 | 1796.2 | 1774.0 |
| 25°   | 2151.9 | 2117.2 | 2196.2 | 2238.9 | 2250.0 | 2153.5 | 2076.0 | 1957.5 | 1887.9 | 1873.7 |
| 27.5° | 2170.9 | 2183.6 | 2275.3 | 2365.4 | 2357.5 | 2283.2 | 2178.8 | 2072.9 | 2017.5 | 1992.2 |
| 30°   | 2226.3 | 2246.8 | 2385.9 | 2487.1 | 2488.7 | 2416.0 | 2336.9 | 2216.8 | 2155.1 | 2144.0 |
| 32.5° | 2325.9 | 2351.2 | 2499.8 | 2607.3 | 2626.3 | 2570.9 | 2491.9 | 2417.6 | 2354.3 | 2329.0 |
| 35°   | 2401.8 | 2466.6 | 2634.2 | 2732.2 | 2782.8 | 2749.6 | 2705.3 | 2627.9 | 2561.5 | 2539.3 |
| 37.5° | 2510.9 | 2601.0 | 2762.3 | 2895.1 | 2952.0 | 2948.8 | 2915.6 | 2831.8 | 2776.5 | 2757.5 |
| 40°   | 2667.4 | 2757.5 | 2904.6 | 3080.1 | 3186.0 | 3181.3 | 3162.3 | 3097.5 | 3015.2 | 3005.8 |
| 42.5° | 2833.4 | 2907.7 | 3099.0 | 3299.9 | 3451.6 | 3435.8 | 3385.2 | 3309.3 | 3252.4 | 3239.8 |
| 45°   | 2994.7 | 3110.1 | 3287.2 | 3544.9 | 3658.8 | 3698.3 | 3638.2 | 3508.6 | 3443.7 | 3435.8 |
| 47.5° | 3197.1 | 3288.8 | 3510.1 | 3741.0 | 3910.2 | 3916.5 | 3813.7 | 3693.6 | 3575.0 | 3600.3 |
| 50°   | 3377.3 | 3499.1 | 3723.6 | 3976.6 | 4179.0 | 4106.2 | 3975.0 | 3824.8 | 3739.4 | 3706.2 |
| 52.5° | 3570.2 | 3718.9 | 3979.7 | 4237.5 | 4349.7 | 4277.0 | 4063.5 | 3895.9 | 3766.3 | 3752.1 |
| 55°   | 3851.7 | 3929.1 | 4270.7 | 4468.3 | 4504.7 | 4351.3 | 4036.7 | 3799.5 | 3631.9 | 3590.8 |
| 57.5° | 4137.9 | 4228.0 | 4526.8 | 4697.6 | 4659.6 | 4310.2 | 3862.7 | 3495.9 | 3276.1 | 3217.6 |
| 60°   | 4427.2 | 4537.9 | 4789.3 | 4945.8 | 4749.8 | 4027.2 | 3371.0 | 2898.2 | 2642.1 | 2589.9 |
| 62.5° | 4749.8 | 4893.6 | 5118.2 | 5173.5 | 4482.6 | 3467.5 | 2675.3 | 2091.9 | 1832.5 | 1745.6 |
| 65°   | 5036.0 | 5183.0 | 5459.7 | 5126.1 | 3914.9 | 2586.8 | 1729.8 | 1195.3 | 1004.0 | 934.5  |
| 67.5° | 5271.5 | 5437.6 | 5573.5 | 4536.3 | 2866.6 | 1514.7 | 901.3  | 629.3  | 558.1  | 532.8  |
| 70°   | 5458.1 | 5734.8 | 5099.2 | 3334.6 | 1638.1 | 738.4  | 487.0  | 414.3  | 404.8  | 398.4  |
| 72.5° | 5295.3 | 5258.9 | 3807.4 | 1924.3 | 717.8  | 406.4  | 352.6  | 341.5  | 339.9  | 341.5  |
| 75°   | 4330.8 | 3862.7 | 2276.9 | 836.4  | 360.5  | 294.1  | 292.5  | 287.8  | 295.7  | 295.7  |
| 77.5° | 2101.3 | 1837.3 | 951.9  | 358.9  | 237.2  | 230.8  | 238.8  | 238.8  | 238.8  | 238.8  |
| 80°   | 487.0  | 539.2  | 339.9  | 218.2  | 172.3  | 172.3  | 189.7  | 191.3  | 183.4  | 180.3  |
| 82.5° | 166.0  | 221.4  | 186.6  | 137.6  | 113.8  | 128.1  | 143.9  | 147.0  | 121.7  | 123.3  |
| 85°   | 82.2   | 129.7  | 101.2  | 79.1   | 58.5   | 79.1   | 93.3   | 98.0   | 83.8   | 80.6   |
| 87.5° | 37.9   | 56.9   | 37.9   | 26.9   | 20.6   | 28.5   | 26.9   | 22.1   | 12.6   | 12.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)