

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: P191260

Luminaire Tested: **GAN-AF-02-LED-U-SL4-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-SL4-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12986.4 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

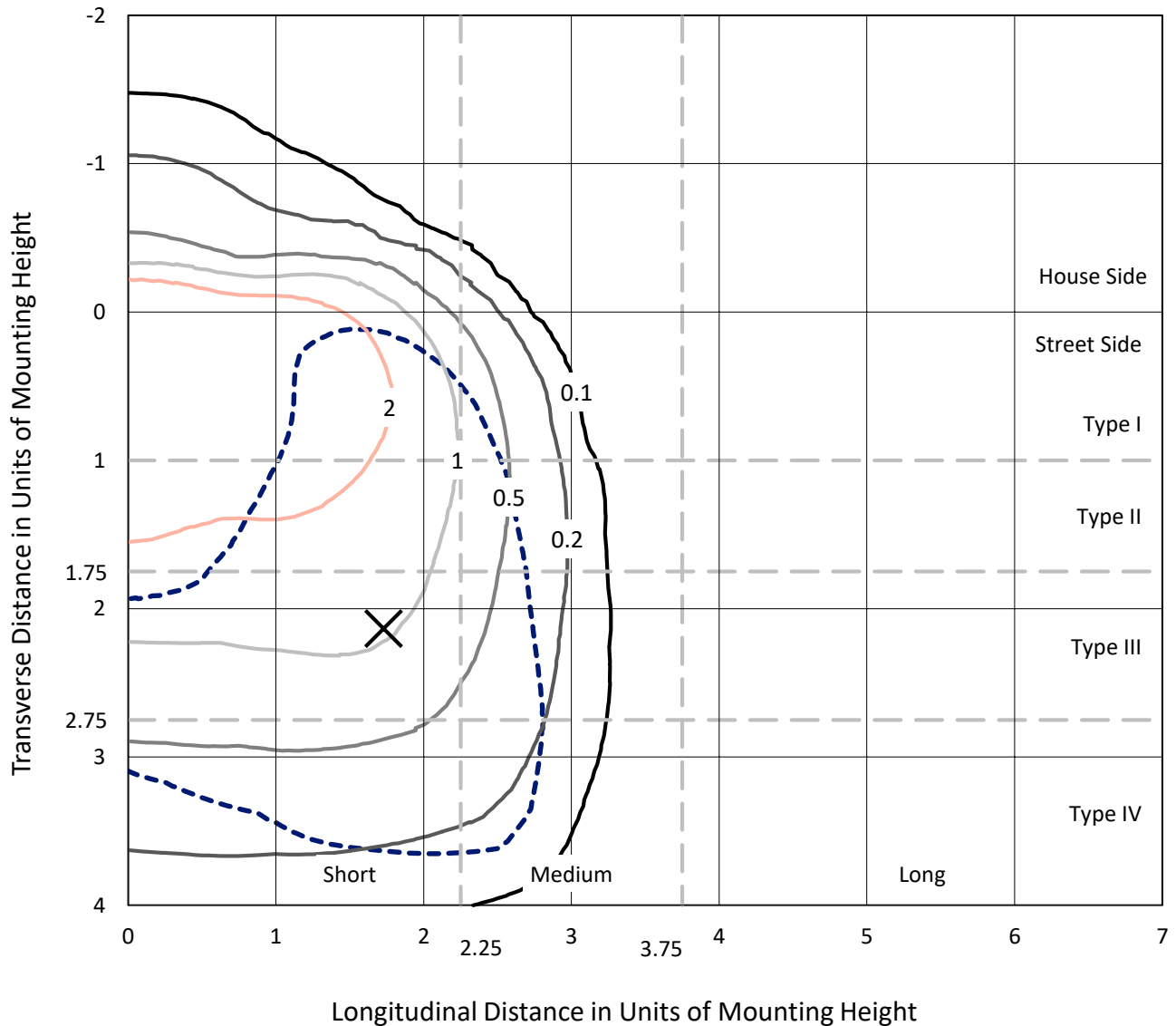
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

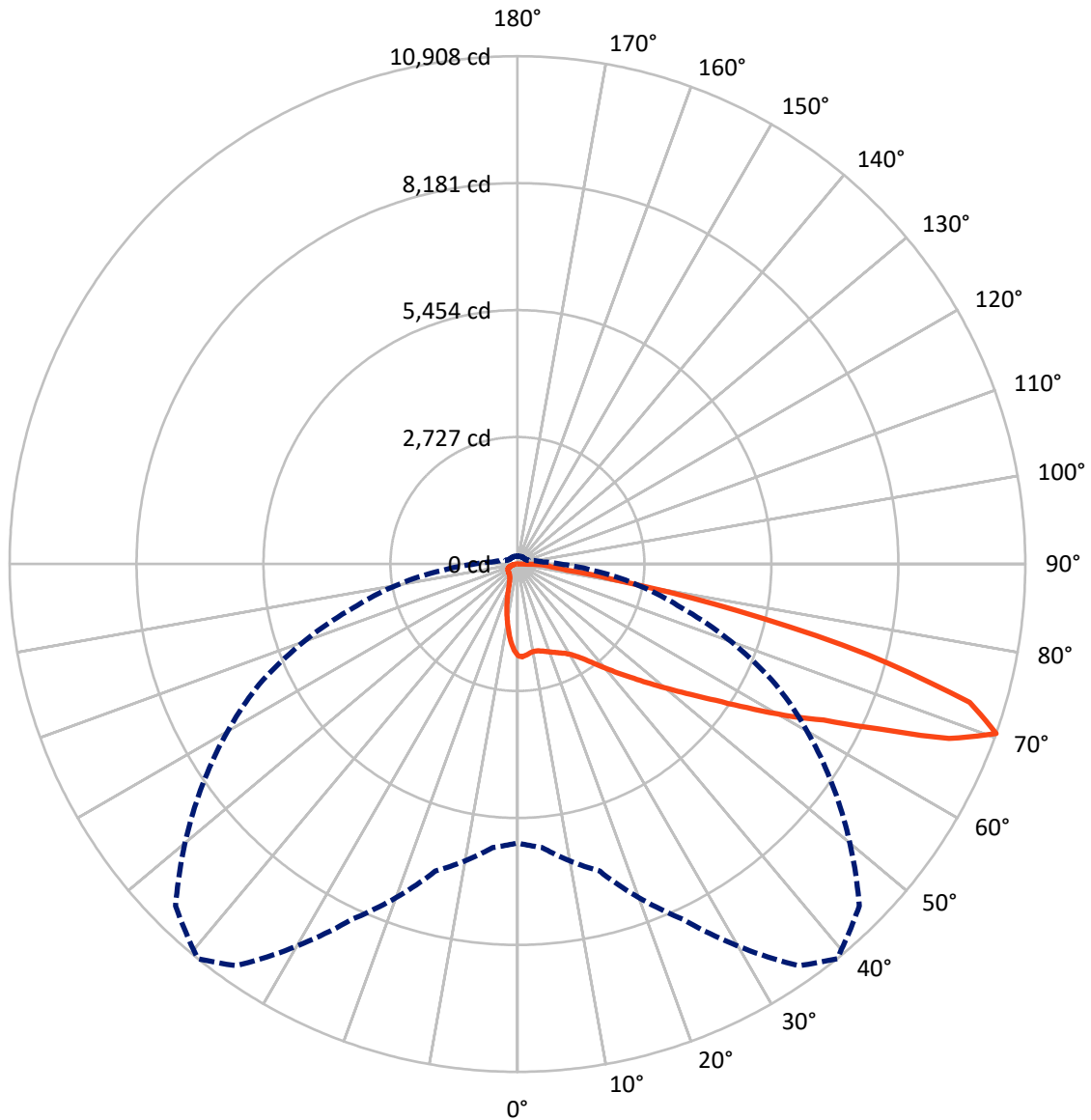
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1477.0 | 0.0 | 1477.0 |
| | % Fixture | 11.4 | 0.0 | 11.4 |
| Street Side | Lumens | 11509.4 | 0.0 | 11509.4 |
| | % Fixture | 88.6 | 0.0 | 88.6 |
| Total | Lumens | 12986.4 | 0.0 | 12986.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 169.2 | 1.3 |
| 10°-20° | 422.9 | 3.3 |
| 20°-30° | 658.5 | 5.1 |
| 30°-40° | 1025.8 | 7.9 |
| 40°-50° | 1722.2 | 13.3 |
| 50°-60° | 2735.8 | 21.1 |
| 60°-70° | 3649.3 | 28.1 |
| 70°-80° | 2203.7 | 17.0 |
| 80°-90° | 398.9 | 3.1 |
| 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° | 12986.4 | 100.0 |
| 0°-180° | 12986.4 | 100.0 |



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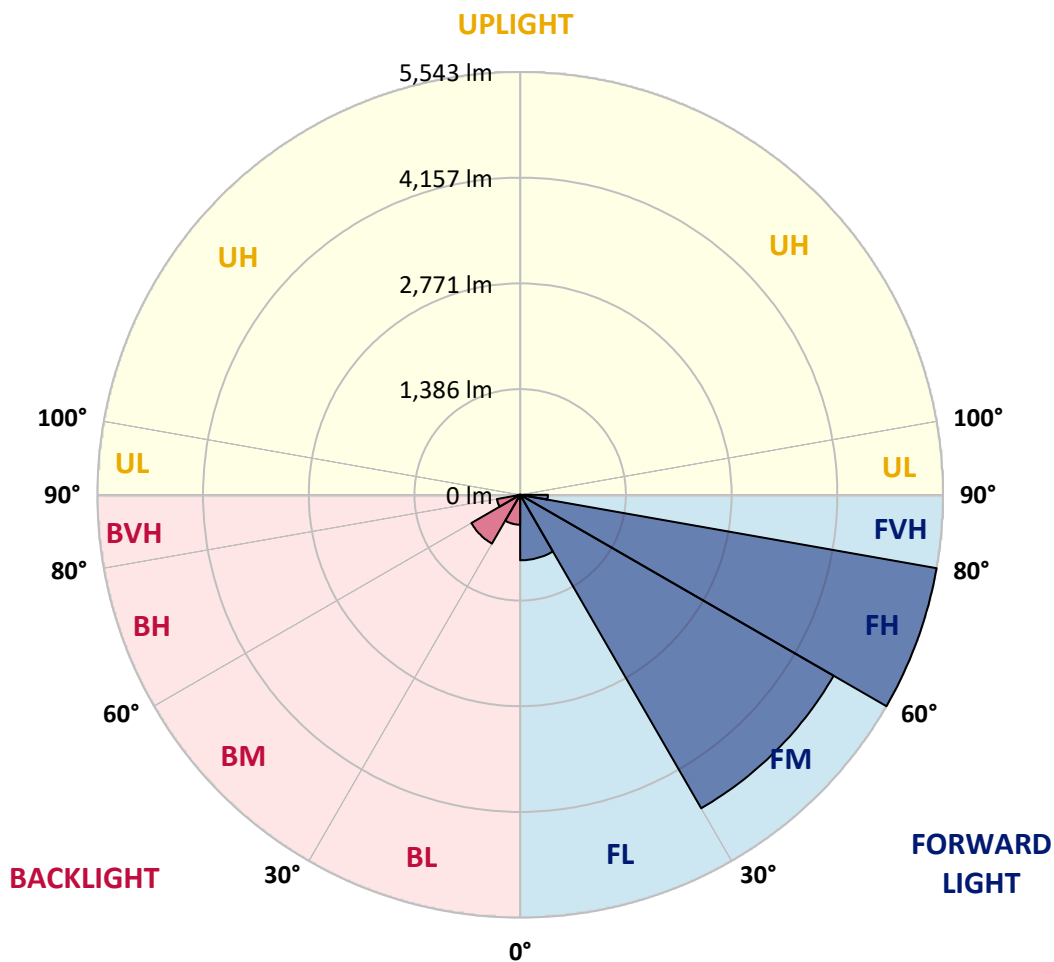
CATALOG NUMBER: GAN-AF-02-LED-U-SL4-1200-ADJ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 858.8 | 6.6 | | | |
| FM | (30°-60°) | 4744.7 | 36.5 | | | |
| FH | (60°-80°) | 5543.0 | 42.7 | | | G3/7500 |
| FVH | (80°-90°) | 362.9 | 2.8 | | | G3/500 |
| BL | (0°-30°) | 391.8 | 3.0 | B1/500 | | |
| BM | (30°-60°) | 739.1 | 5.7 | B1/1000 | | |
| BH | (60°-80°) | 310.1 | 2.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 36.0 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 1971.5 | 1971.5 | 1971.5 | 1971.5 | 1971.5 | 1971.5 | 1971.5 | 1971.5 | 1971.5 | 1971.5 | 1971.5 |
| 2.5° | 2009.8 | 2009.2 | 2003.9 | 2000.0 | 1996.6 | 1995.3 | 1997.9 | 1988.0 | 1979.4 | 1968.9 | 1957.6 |
| 5° | 1994.7 | 1993.9 | 1985.4 | 1977.5 | 1969.6 | 1966.9 | 1966.2 | 1948.4 | 1937.9 | 1922.0 | 1900.8 |
| 7.5° | 1978.2 | 1974.8 | 1963.7 | 1950.4 | 1936.5 | 1929.9 | 1923.4 | 1900.2 | 1888.4 | 1872.5 | 1848.1 |
| 10° | 1961.0 | 1957.0 | 1946.5 | 1933.3 | 1920.1 | 1910.2 | 1898.9 | 1876.5 | 1863.9 | 1852.1 | 1823.6 |
| 12.5° | 1943.1 | 1939.8 | 1937.2 | 1931.2 | 1922.0 | 1913.4 | 1904.8 | 1885.7 | 1872.5 | 1858.6 | 1825.7 |
| 15° | 1940.5 | 1939.2 | 1945.1 | 1949.1 | 1943.8 | 1938.5 | 1929.3 | 1912.8 | 1898.9 | 1885.0 | 1842.1 |
| 17.5° | 1961.6 | 1961.0 | 1976.1 | 1986.7 | 1984.1 | 1974.8 | 1962.3 | 1943.8 | 1932.6 | 1920.7 | 1867.2 |
| 20° | 2007.8 | 2011.1 | 2029.6 | 2043.5 | 2030.3 | 2017.1 | 1996.6 | 1970.9 | 1964.9 | 1959.7 | 1893.0 |
| 22.5° | 2095.0 | 2098.3 | 2111.5 | 2116.8 | 2082.4 | 2063.3 | 2035.0 | 2001.9 | 1997.9 | 2001.9 | 1924.0 |
| 25° | 2231.1 | 2227.7 | 2225.7 | 2205.9 | 2143.2 | 2113.5 | 2077.2 | 2042.8 | 2044.8 | 2062.7 | 1967.5 |
| 27.5° | 2411.3 | 2393.4 | 2365.7 | 2306.2 | 2206.6 | 2173.6 | 2129.4 | 2097.7 | 2110.1 | 2144.5 | 2032.9 |
| 30° | 2598.1 | 2578.3 | 2514.3 | 2417.2 | 2289.8 | 2253.5 | 2203.9 | 2168.2 | 2201.3 | 2255.4 | 2120.1 |
| 32.5° | 2771.1 | 2768.4 | 2674.7 | 2549.9 | 2404.7 | 2372.9 | 2323.4 | 2283.1 | 2336.6 | 2419.2 | 2250.8 |
| 35° | 2959.9 | 2965.8 | 2853.6 | 2703.8 | 2559.8 | 2526.8 | 2491.2 | 2460.8 | 2532.1 | 2645.7 | 2440.4 |
| 37.5° | 3161.9 | 3173.9 | 3041.1 | 2872.1 | 2736.8 | 2722.9 | 2701.8 | 2688.6 | 2798.8 | 2956.0 | 2705.1 |
| 40° | 3432.0 | 3420.1 | 3235.9 | 3062.3 | 2954.0 | 2953.4 | 2946.7 | 2962.6 | 3146.1 | 3361.4 | 3045.1 |
| 42.5° | 3721.2 | 3686.2 | 3442.5 | 3266.3 | 3192.3 | 3214.8 | 3228.0 | 3292.7 | 3564.1 | 3854.0 | 3459.7 |
| 45° | 4032.9 | 3954.3 | 3657.2 | 3482.2 | 3457.1 | 3504.6 | 3549.5 | 3690.2 | 4056.0 | 4414.4 | 3914.0 |
| 47.5° | 4281.8 | 4205.9 | 3879.0 | 3708.7 | 3763.4 | 3835.5 | 3921.9 | 4144.5 | 4606.7 | 4993.5 | 4362.4 |
| 50° | 4477.9 | 4428.4 | 4102.9 | 3972.7 | 4100.9 | 4211.8 | 4353.1 | 4658.8 | 5179.7 | 5557.4 | 4777.6 |
| 52.5° | 4668.0 | 4631.0 | 4328.6 | 4243.5 | 4497.0 | 4650.2 | 4842.3 | 5210.7 | 5767.4 | 6112.0 | 5126.9 |
| 55° | 4839.7 | 4813.3 | 4571.7 | 4580.9 | 4963.2 | 5162.5 | 5404.2 | 5839.3 | 6407.8 | 6606.5 | 5422.7 |
| 57.5° | 5033.1 | 4999.5 | 4848.9 | 5004.1 | 5562.0 | 5820.8 | 6135.1 | 6545.8 | 7008.6 | 7046.3 | 5647.8 |
| 60° | 5227.9 | 5198.8 | 5156.6 | 5492.7 | 6322.7 | 6594.7 | 6892.4 | 7230.5 | 7618.0 | 7387.6 | 5634.6 |
| 62.5° | 5397.0 | 5400.3 | 5474.8 | 6005.7 | 7067.4 | 7382.3 | 7745.5 | 8079.6 | 8169.4 | 7447.1 | 5218.0 |
| 65° | 5683.5 | 5735.7 | 5958.2 | 6732.0 | 8115.9 | 8537.1 | 8982.8 | 8929.3 | 8321.9 | 6891.8 | 4324.7 |
| 67.5° | 6024.2 | 6116.0 | 6566.9 | 7700.0 | 9441.0 | 10000.3 | 10172.6 | 9121.4 | 7711.1 | 5602.3 | 3082.8 |
| 70° | 5989.9 | 6116.0 | 6829.7 | 8421.5 | 10533.1 | 10908.1 | 10385.2 | 8255.2 | 6123.3 | 3659.8 | 1637.4 |
| 72.5° | 5319.0 | 5499.3 | 6294.2 | 8090.8 | 10189.1 | 10156.1 | 9015.8 | 6154.3 | 3638.0 | 1469.8 | 639.8 |
| 75° | 4054.0 | 4236.2 | 4920.3 | 6391.9 | 8053.2 | 7775.9 | 6397.2 | 3399.7 | 1380.6 | 583.7 | 403.5 |
| 77.5° | 2332.0 | 2473.3 | 3001.5 | 3919.9 | 5109.1 | 4824.5 | 3560.8 | 1512.0 | 672.2 | 406.7 | 315.0 |
| 80° | 1302.0 | 1380.6 | 1701.5 | 1988.7 | 2503.7 | 2295.1 | 1593.2 | 939.6 | 501.8 | 295.1 | 243.0 |
| 82.5° | 1029.3 | 1099.4 | 1376.0 | 1254.4 | 1143.6 | 1055.1 | 915.1 | 836.6 | 400.8 | 186.2 | 145.3 |
| 85° | 899.3 | 966.0 | 1164.7 | 987.8 | 781.1 | 716.4 | 743.5 | 823.4 | 311.6 | 112.2 | 124.1 |
| 87.5° | 833.3 | 922.4 | 1037.9 | 761.3 | 608.1 | 538.8 | 686.0 | 902.5 | 100.4 | 70.0 | 50.2 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1971.5 | 1971.5 | 1971.5 | 1971.5 | 1971.5 | 1971.5 | 1971.5 | 1971.5 | 1971.5 | 1971.5 | 1971.5 |
| 2.5° | 1947.8 | 1937.2 | 1920.1 | 1904.8 | 1881.1 | 1868.5 | 1854.7 | 1844.8 | 1836.8 | 1830.3 | 1840.8 |
| 5° | 1887.7 | 1867.9 | 1831.6 | 1792.6 | 1746.4 | 1710.1 | 1679.7 | 1651.3 | 1631.5 | 1618.3 | 1627.5 |
| 7.5° | 1830.9 | 1798.6 | 1741.8 | 1671.1 | 1591.9 | 1524.5 | 1469.1 | 1420.3 | 1386.5 | 1364.7 | 1373.3 |
| 10° | 1798.6 | 1758.2 | 1670.5 | 1559.5 | 1442.7 | 1337.7 | 1250.6 | 1175.3 | 1123.1 | 1093.4 | 1098.0 |
| 12.5° | 1790.6 | 1738.5 | 1617.0 | 1464.5 | 1304.7 | 1158.8 | 1035.9 | 931.6 | 858.4 | 820.0 | 821.3 |
| 15° | 1796.6 | 1729.9 | 1566.8 | 1373.3 | 1171.3 | 987.0 | 833.9 | 707.2 | 622.0 | 578.4 | 577.8 |
| 17.5° | 1806.4 | 1723.3 | 1514.0 | 1275.0 | 1035.9 | 822.0 | 651.0 | 526.9 | 451.6 | 416.6 | 414.0 |
| 20° | 1817.1 | 1712.7 | 1454.5 | 1168.6 | 895.3 | 668.8 | 509.7 | 412.7 | 365.1 | 346.0 | 344.6 |
| 22.5° | 1832.2 | 1703.4 | 1393.2 | 1056.4 | 757.3 | 544.7 | 419.3 | 353.9 | 328.8 | 318.9 | 317.6 |
| 25° | 1856.7 | 1698.8 | 1327.8 | 939.6 | 633.2 | 455.6 | 365.1 | 324.9 | 310.4 | 303.7 | 303.1 |
| 27.5° | 1897.6 | 1705.5 | 1266.4 | 826.0 | 532.1 | 395.5 | 334.7 | 310.4 | 299.7 | 293.8 | 293.2 |
| 30° | 1950.4 | 1725.9 | 1201.7 | 718.3 | 453.6 | 354.6 | 316.3 | 300.4 | 291.8 | 285.9 | 285.9 |
| 32.5° | 2038.2 | 1760.3 | 1133.6 | 625.2 | 397.5 | 326.1 | 302.4 | 291.8 | 284.6 | 280.0 | 279.3 |
| 35° | 2167.6 | 1824.9 | 1070.3 | 548.0 | 357.2 | 305.7 | 290.5 | 282.6 | 277.3 | 274.7 | 274.7 |
| 37.5° | 2355.8 | 1927.3 | 1014.2 | 492.6 | 332.8 | 291.8 | 279.3 | 273.3 | 270.1 | 270.1 | 270.1 |
| 40° | 2608.7 | 2068.6 | 968.6 | 455.6 | 318.9 | 281.9 | 270.7 | 266.1 | 264.1 | 264.7 | 264.7 |
| 42.5° | 2920.9 | 2252.1 | 938.3 | 429.8 | 312.3 | 276.0 | 264.7 | 260.9 | 258.8 | 258.2 | 258.8 |
| 45° | 3276.8 | 2460.8 | 934.9 | 410.7 | 305.7 | 272.0 | 260.9 | 256.9 | 252.9 | 250.2 | 250.2 |
| 47.5° | 3622.9 | 2672.8 | 962.0 | 404.1 | 298.4 | 267.4 | 257.5 | 253.6 | 247.6 | 241.6 | 241.6 |
| 50° | 3928.5 | 2853.0 | 998.3 | 406.7 | 295.8 | 260.9 | 252.3 | 250.2 | 241.0 | 234.4 | 233.7 |
| 52.5° | 4171.5 | 2991.6 | 1028.1 | 414.6 | 298.4 | 256.1 | 245.6 | 246.3 | 236.4 | 229.1 | 228.4 |
| 55° | 4366.3 | 3082.8 | 1020.1 | 422.6 | 304.3 | 253.6 | 239.7 | 241.0 | 233.0 | 225.8 | 225.8 |
| 57.5° | 4451.5 | 3049.1 | 932.3 | 415.9 | 309.0 | 254.2 | 235.1 | 240.3 | 233.7 | 227.1 | 227.1 |
| 60° | 4268.6 | 2750.0 | 767.9 | 386.9 | 303.1 | 252.3 | 233.0 | 243.0 | 242.3 | 235.7 | 235.1 |
| 62.5° | 3715.3 | 2214.5 | 595.6 | 344.0 | 282.6 | 242.3 | 227.8 | 242.3 | 249.6 | 247.6 | 246.9 |
| 65° | 2863.5 | 1577.4 | 454.9 | 297.8 | 254.8 | 225.8 | 213.9 | 227.1 | 237.0 | 239.7 | 239.1 |
| 67.5° | 1858.6 | 966.6 | 350.6 | 254.2 | 223.8 | 206.6 | 196.1 | 202.0 | 204.0 | 204.0 | 202.7 |
| 70° | 913.8 | 520.3 | 279.3 | 213.9 | 192.1 | 186.2 | 180.2 | 177.0 | 173.7 | 171.0 | 171.0 |
| 72.5° | 450.9 | 340.0 | 229.8 | 181.0 | 165.7 | 163.1 | 161.7 | 157.8 | 155.2 | 151.9 | 150.6 |
| 75° | 333.4 | 276.6 | 195.5 | 152.5 | 142.6 | 139.9 | 142.6 | 139.3 | 138.6 | 136.1 | 134.7 |
| 77.5° | 274.0 | 235.7 | 168.4 | 130.7 | 122.1 | 117.5 | 121.5 | 122.1 | 122.9 | 118.9 | 117.5 |
| 80° | 222.5 | 199.4 | 140.7 | 108.3 | 100.4 | 97.1 | 99.7 | 105.0 | 106.3 | 100.4 | 97.7 |
| 82.5° | 160.4 | 163.1 | 113.5 | 84.5 | 77.9 | 75.3 | 80.5 | 87.2 | 88.5 | 79.9 | 77.9 |
| 85° | 134.7 | 136.1 | 87.2 | 60.0 | 53.5 | 49.5 | 58.1 | 64.8 | 69.4 | 60.8 | 58.7 |
| 87.5° | 56.2 | 79.9 | 50.2 | 33.7 | 29.7 | 25.8 | 31.0 | 34.4 | 41.6 | 38.3 | 37.6 |
| 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)