

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: P192060

Luminaire Tested: **GAN-AF-02-LED-U-SL4-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192060
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-SL4-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 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: 12695 lumens
Efficiency: N/A
Efficacy: 98.4 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

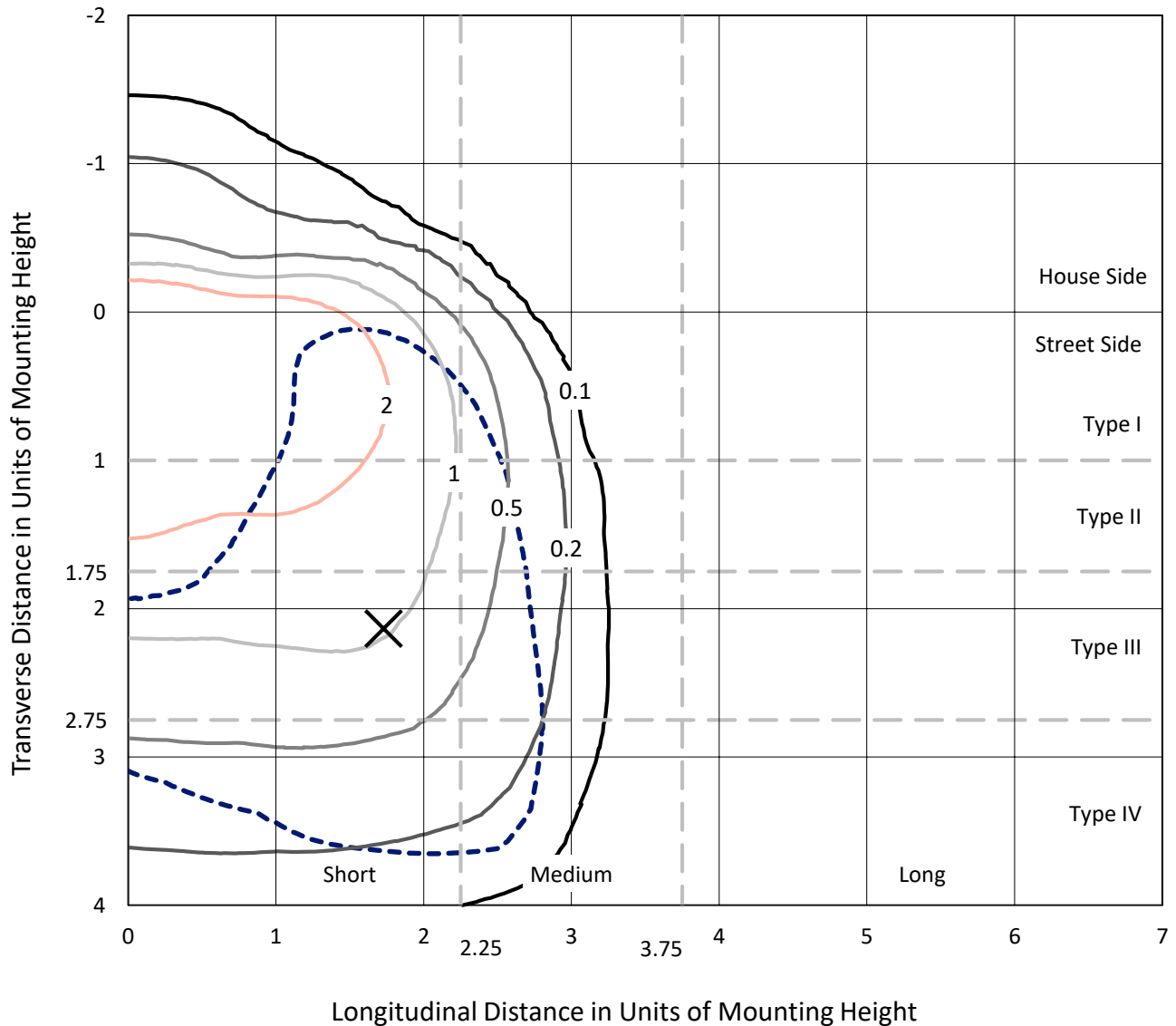


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

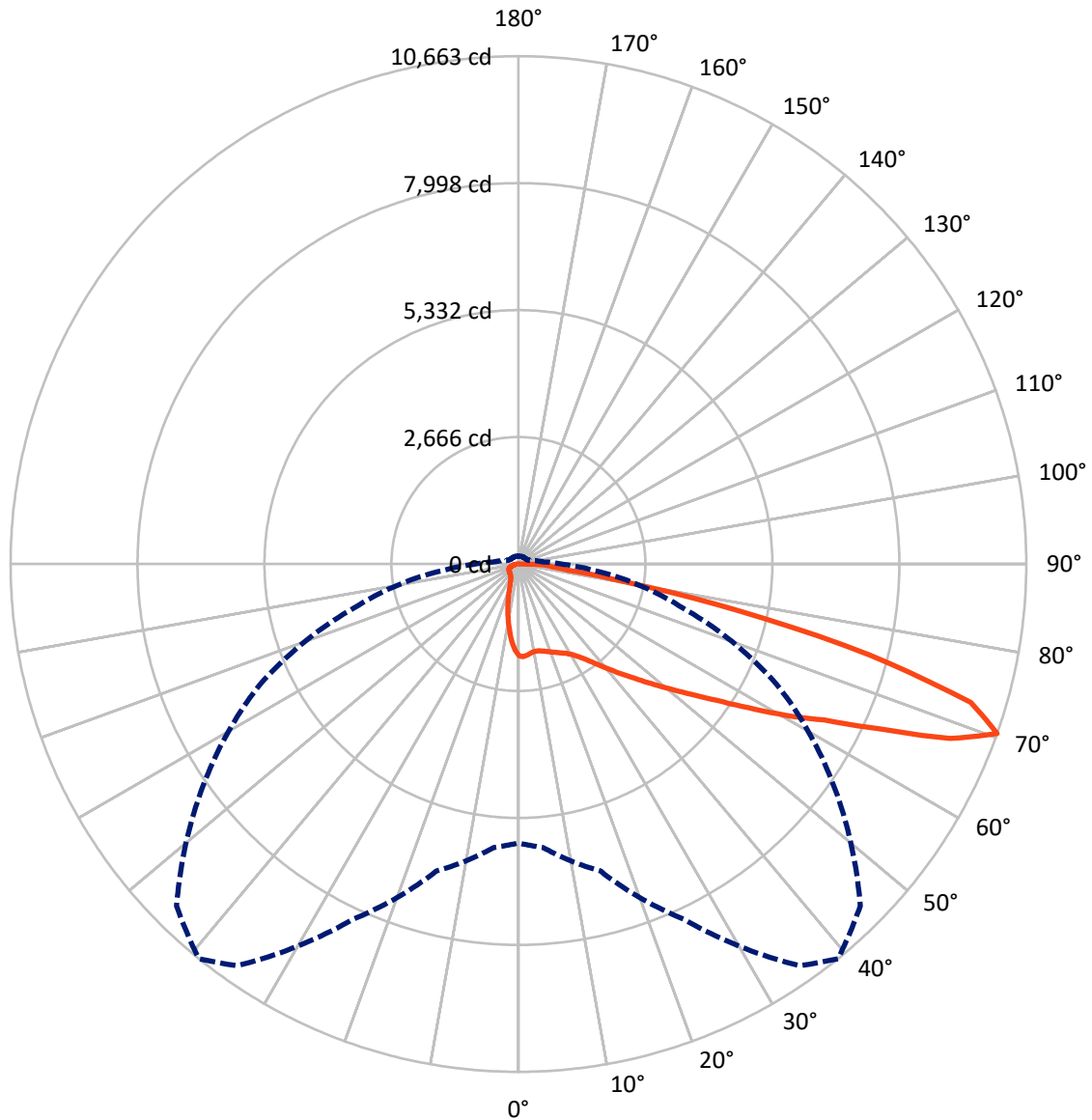


Based on 20 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - Semi-Cutoff

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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 | 1443.9 | 0.0 | 1443.9 |
| | % Fixture | 11.4 | 0.0 | 11.4 |
| Street Side | Lumens | 11251.2 | 0.0 | 11251.2 |
| | % Fixture | 88.6 | 0.0 | 88.6 |
| Total | Lumens | 12695.0 | 0.0 | 12695.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 165.4 | 1.3 |
| 10°-20° | 413.4 | 3.3 |
| 20°-30° | 643.7 | 5.1 |
| 30°-40° | 1002.8 | 7.9 |
| 40°-50° | 1683.6 | 13.3 |
| 50°-60° | 2674.5 | 21.1 |
| 60°-70° | 3567.4 | 28.1 |
| 70°-80° | 2154.3 | 17.0 |
| 80°-90° | 389.9 | 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° | 12695.0 | 100.0 |
| 0°-180° | 12695.0 | 100.0 |

Coefficient of Utilization



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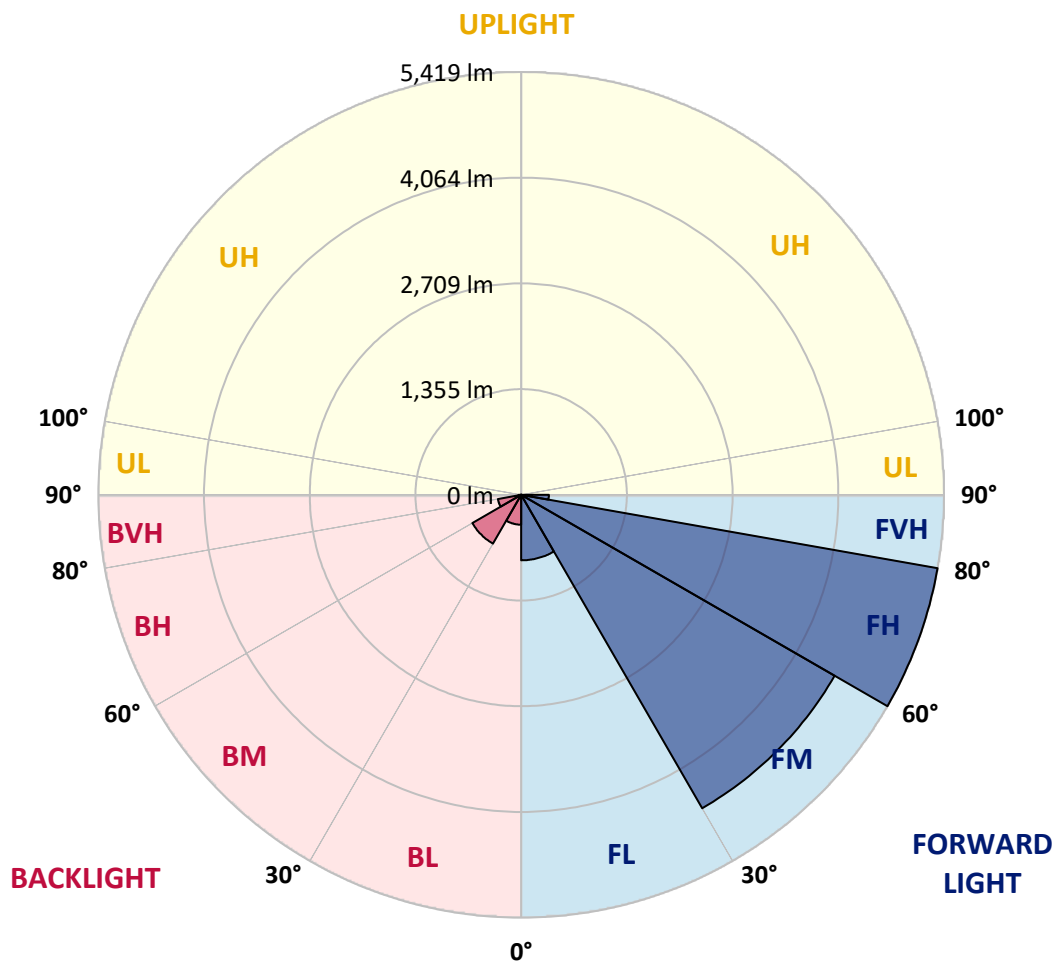
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 839.5 | 6.6 | | | |
| FM | (30°-60°) | 4638.3 | 36.5 | | | |
| FH | (60°-80°) | 5418.6 | 42.7 | | | G3/7500 |
| FVH | (80°-90°) | 354.8 | 2.8 | | | G3/500 |
| BL | (0°-30°) | 383.0 | 3.0 | B1/500 | | |
| BM | (30°-60°) | 722.6 | 5.7 | B1/1000 | | |
| BH | (60°-80°) | 303.1 | 2.4 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 35.1 | 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° | 1927.3 | 1927.3 | 1927.3 | 1927.3 | 1927.3 | 1927.3 | 1927.3 | 1927.3 | 1927.3 | 1927.3 | 1927.3 |
| 2.5° | 1964.7 | 1964.1 | 1958.9 | 1955.1 | 1951.8 | 1950.5 | 1953.1 | 1943.4 | 1935.0 | 1924.7 | 1913.7 |
| 5° | 1949.9 | 1949.2 | 1940.9 | 1933.1 | 1925.4 | 1922.8 | 1922.1 | 1904.7 | 1894.4 | 1878.9 | 1858.2 |
| 7.5° | 1933.8 | 1930.5 | 1919.6 | 1906.6 | 1893.1 | 1886.6 | 1880.2 | 1857.6 | 1846.0 | 1830.5 | 1806.6 |
| 10° | 1917.0 | 1913.1 | 1902.8 | 1889.9 | 1877.0 | 1867.3 | 1856.3 | 1834.4 | 1822.1 | 1810.5 | 1782.7 |
| 12.5° | 1899.5 | 1896.3 | 1893.7 | 1887.9 | 1878.9 | 1870.5 | 1862.1 | 1843.4 | 1830.5 | 1816.9 | 1784.7 |
| 15° | 1897.0 | 1895.7 | 1901.5 | 1905.4 | 1900.2 | 1895.0 | 1886.0 | 1869.9 | 1856.3 | 1842.7 | 1800.8 |
| 17.5° | 1917.6 | 1917.0 | 1931.8 | 1942.1 | 1939.6 | 1930.5 | 1918.3 | 1900.2 | 1889.2 | 1877.6 | 1825.3 |
| 20° | 1962.8 | 1966.0 | 1984.1 | 1997.7 | 1984.7 | 1971.8 | 1951.8 | 1926.7 | 1920.8 | 1915.7 | 1850.5 |
| 22.5° | 2048.0 | 2051.2 | 2064.1 | 2069.3 | 2035.7 | 2017.0 | 1989.3 | 1957.0 | 1953.1 | 1957.0 | 1880.8 |
| 25° | 2181.0 | 2177.7 | 2175.8 | 2156.4 | 2095.1 | 2066.1 | 2030.6 | 1997.0 | 1998.9 | 2016.4 | 1923.4 |
| 27.5° | 2357.2 | 2339.7 | 2312.6 | 2254.5 | 2157.1 | 2124.8 | 2081.6 | 2050.6 | 2062.8 | 2096.4 | 1987.3 |
| 30° | 2539.8 | 2520.5 | 2457.9 | 2363.0 | 2238.4 | 2202.9 | 2154.5 | 2119.6 | 2151.9 | 2204.8 | 2072.5 |
| 32.5° | 2708.9 | 2706.3 | 2614.7 | 2492.7 | 2350.7 | 2319.7 | 2271.3 | 2231.9 | 2284.2 | 2364.9 | 2200.3 |
| 35° | 2893.5 | 2899.3 | 2789.6 | 2643.1 | 2502.4 | 2470.1 | 2435.3 | 2405.6 | 2475.3 | 2586.3 | 2385.6 |
| 37.5° | 3091.0 | 3102.7 | 2972.9 | 2807.7 | 2675.4 | 2661.8 | 2641.2 | 2628.3 | 2736.0 | 2889.7 | 2644.4 |
| 40° | 3355.0 | 3343.4 | 3163.3 | 2993.6 | 2887.7 | 2887.1 | 2880.6 | 2896.1 | 3075.5 | 3286.0 | 2976.8 |
| 42.5° | 3637.7 | 3603.5 | 3365.3 | 3193.0 | 3120.7 | 3142.7 | 3155.6 | 3218.8 | 3484.1 | 3767.5 | 3382.1 |
| 45° | 3942.4 | 3865.6 | 3575.1 | 3404.1 | 3379.5 | 3426.0 | 3469.9 | 3607.4 | 3965.0 | 4315.4 | 3826.2 |
| 47.5° | 4185.7 | 4111.5 | 3792.0 | 3625.5 | 3679.0 | 3749.4 | 3833.9 | 4051.5 | 4503.3 | 4881.5 | 4264.5 |
| 50° | 4377.4 | 4329.0 | 4010.8 | 3883.6 | 4008.9 | 4117.3 | 4255.4 | 4554.3 | 5063.5 | 5432.7 | 4670.4 |
| 52.5° | 4563.3 | 4527.1 | 4231.5 | 4148.3 | 4396.1 | 4545.9 | 4733.7 | 5093.8 | 5638.0 | 5974.9 | 5011.9 |
| 55° | 4731.1 | 4705.3 | 4469.1 | 4478.1 | 4851.8 | 5046.7 | 5283.0 | 5708.3 | 6264.0 | 6458.3 | 5301.0 |
| 57.5° | 4920.2 | 4887.3 | 4740.1 | 4891.8 | 5437.2 | 5690.2 | 5997.5 | 6398.9 | 6851.4 | 6888.2 | 5521.1 |
| 60° | 5110.6 | 5082.2 | 5040.9 | 5369.5 | 6180.8 | 6446.7 | 6737.8 | 7068.3 | 7447.1 | 7221.9 | 5508.2 |
| 62.5° | 5275.9 | 5279.1 | 5352.0 | 5871.0 | 6908.8 | 7216.7 | 7571.7 | 7898.3 | 7986.1 | 7280.0 | 5100.9 |
| 65° | 5556.0 | 5607.0 | 5824.5 | 6581.0 | 7933.8 | 8345.6 | 8781.3 | 8729.0 | 8135.2 | 6737.2 | 4227.7 |
| 67.5° | 5889.0 | 5978.8 | 6419.6 | 7527.2 | 9229.2 | 9775.9 | 9944.4 | 8916.8 | 7538.1 | 5476.6 | 3013.6 |
| 70° | 5855.5 | 5978.8 | 6676.5 | 8232.6 | 10296.8 | 10663.4 | 10152.2 | 8070.0 | 5985.9 | 3577.7 | 1600.7 |
| 72.5° | 5199.7 | 5375.9 | 6153.0 | 7909.3 | 9960.5 | 9928.2 | 8813.5 | 6016.2 | 3556.4 | 1436.8 | 625.4 |
| 75° | 3963.0 | 4141.2 | 4809.9 | 6248.5 | 7872.5 | 7601.4 | 6253.7 | 3323.4 | 1349.6 | 570.6 | 394.4 |
| 77.5° | 2279.7 | 2417.8 | 2934.2 | 3832.0 | 4994.5 | 4716.3 | 3480.9 | 1478.1 | 657.1 | 397.6 | 307.9 |
| 80° | 1272.8 | 1349.6 | 1663.3 | 1944.1 | 2447.5 | 2243.6 | 1557.5 | 918.5 | 490.5 | 288.5 | 237.5 |
| 82.5° | 1006.2 | 1074.7 | 1345.1 | 1226.3 | 1117.9 | 1031.4 | 894.6 | 817.8 | 391.8 | 182.0 | 142.0 |
| 85° | 879.1 | 944.3 | 1138.6 | 965.6 | 763.6 | 700.3 | 726.8 | 804.9 | 304.6 | 109.7 | 121.3 |
| 87.5° | 814.6 | 901.7 | 1014.6 | 744.2 | 594.5 | 526.7 | 670.6 | 882.3 | 98.1 | 68.4 | 49.1 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1927.3 | 1927.3 | 1927.3 | 1927.3 | 1927.3 | 1927.3 | 1927.3 | 1927.3 | 1927.3 | 1927.3 | 1927.3 |
| 2.5° | 1904.1 | 1893.7 | 1877.0 | 1862.1 | 1838.9 | 1826.6 | 1813.1 | 1803.4 | 1795.6 | 1789.2 | 1799.5 |
| 5° | 1845.3 | 1826.0 | 1790.5 | 1752.4 | 1707.2 | 1671.7 | 1642.0 | 1614.3 | 1594.9 | 1582.0 | 1591.0 |
| 7.5° | 1789.8 | 1758.2 | 1702.7 | 1633.6 | 1556.2 | 1490.3 | 1436.1 | 1388.4 | 1355.4 | 1334.1 | 1342.5 |
| 10° | 1758.2 | 1718.8 | 1633.0 | 1524.5 | 1410.3 | 1307.7 | 1222.5 | 1148.9 | 1097.9 | 1068.9 | 1073.4 |
| 12.5° | 1750.4 | 1699.5 | 1580.7 | 1431.6 | 1275.4 | 1132.8 | 1012.7 | 910.7 | 839.1 | 801.6 | 802.9 |
| 15° | 1756.3 | 1691.1 | 1531.6 | 1342.5 | 1145.0 | 964.9 | 815.2 | 691.3 | 608.0 | 565.4 | 564.8 |
| 17.5° | 1765.9 | 1684.6 | 1480.0 | 1246.4 | 1012.7 | 803.6 | 636.4 | 515.1 | 441.5 | 407.3 | 404.7 |
| 20° | 1776.3 | 1674.3 | 1421.9 | 1142.4 | 875.2 | 653.8 | 498.3 | 403.4 | 356.9 | 338.2 | 336.9 |
| 22.5° | 1791.1 | 1665.2 | 1361.9 | 1032.7 | 740.3 | 532.5 | 409.9 | 346.0 | 321.4 | 311.7 | 310.5 |
| 25° | 1815.0 | 1660.7 | 1298.0 | 918.5 | 619.0 | 445.4 | 356.9 | 317.6 | 303.4 | 296.9 | 296.3 |
| 27.5° | 1855.0 | 1667.2 | 1238.0 | 807.5 | 520.2 | 386.6 | 327.2 | 303.4 | 293.0 | 287.2 | 286.6 |
| 30° | 1906.6 | 1687.2 | 1174.7 | 702.2 | 443.4 | 346.6 | 309.2 | 293.7 | 285.3 | 279.5 | 279.5 |
| 32.5° | 1992.5 | 1720.8 | 1108.2 | 611.2 | 388.6 | 318.8 | 295.6 | 285.3 | 278.2 | 273.7 | 273.0 |
| 35° | 2119.0 | 1784.0 | 1046.3 | 535.7 | 349.2 | 298.8 | 284.0 | 276.3 | 271.1 | 268.5 | 268.5 |
| 37.5° | 2302.9 | 1884.1 | 991.4 | 481.5 | 325.3 | 285.3 | 273.0 | 267.2 | 264.0 | 264.0 | 264.0 |
| 40° | 2550.2 | 2022.2 | 946.9 | 445.4 | 311.7 | 275.6 | 264.6 | 260.1 | 258.2 | 258.8 | 258.8 |
| 42.5° | 2855.4 | 2201.6 | 917.2 | 420.2 | 305.3 | 269.8 | 258.8 | 255.0 | 253.0 | 252.4 | 253.0 |
| 45° | 3203.3 | 2405.6 | 913.9 | 401.5 | 298.8 | 265.9 | 255.0 | 251.1 | 247.2 | 244.6 | 244.6 |
| 47.5° | 3541.6 | 2612.8 | 940.4 | 395.0 | 291.7 | 261.4 | 251.7 | 247.9 | 242.0 | 236.2 | 236.2 |
| 50° | 3840.4 | 2789.0 | 975.9 | 397.6 | 289.2 | 255.0 | 246.6 | 244.6 | 235.6 | 229.1 | 228.5 |
| 52.5° | 4077.9 | 2924.5 | 1005.0 | 405.3 | 291.7 | 250.4 | 240.1 | 240.8 | 231.1 | 224.0 | 223.3 |
| 55° | 4268.3 | 3013.6 | 997.2 | 413.1 | 297.5 | 247.9 | 234.3 | 235.6 | 227.8 | 220.7 | 220.7 |
| 57.5° | 4351.6 | 2980.7 | 911.4 | 406.6 | 302.1 | 248.5 | 229.8 | 234.9 | 228.5 | 222.0 | 222.0 |
| 60° | 4172.8 | 2688.3 | 750.7 | 378.2 | 296.3 | 246.6 | 227.8 | 237.5 | 236.9 | 230.4 | 229.8 |
| 62.5° | 3631.9 | 2164.8 | 582.2 | 336.3 | 276.3 | 236.9 | 222.7 | 236.9 | 244.0 | 242.0 | 241.4 |
| 65° | 2799.3 | 1542.0 | 444.7 | 291.1 | 249.1 | 220.7 | 209.1 | 222.0 | 231.7 | 234.3 | 233.7 |
| 67.5° | 1816.9 | 944.9 | 342.7 | 248.5 | 218.8 | 202.0 | 191.7 | 197.5 | 199.4 | 199.4 | 198.2 |
| 70° | 893.3 | 508.6 | 273.0 | 209.1 | 187.8 | 182.0 | 176.2 | 173.0 | 169.8 | 167.2 | 167.2 |
| 72.5° | 440.8 | 332.4 | 224.6 | 176.9 | 162.0 | 159.4 | 158.1 | 154.3 | 151.7 | 148.5 | 147.2 |
| 75° | 325.9 | 270.4 | 191.1 | 149.1 | 139.4 | 136.8 | 139.4 | 136.2 | 135.5 | 133.0 | 131.7 |
| 77.5° | 267.9 | 230.4 | 164.6 | 127.8 | 119.4 | 114.9 | 118.8 | 119.4 | 120.1 | 116.2 | 114.9 |
| 80° | 217.5 | 194.9 | 137.5 | 105.9 | 98.1 | 94.9 | 97.5 | 102.6 | 103.9 | 98.1 | 95.5 |
| 82.5° | 156.8 | 159.4 | 111.0 | 82.6 | 76.2 | 73.6 | 78.7 | 85.2 | 86.5 | 78.1 | 76.2 |
| 85° | 131.7 | 133.0 | 85.2 | 58.7 | 52.3 | 48.4 | 56.8 | 63.3 | 67.8 | 59.4 | 57.4 |
| 87.5° | 54.9 | 78.1 | 49.1 | 32.9 | 29.0 | 25.2 | 30.3 | 33.6 | 40.7 | 37.4 | 36.8 |
| 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)