

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: McGRAW-EDISON

Report Number: P192371

Luminaire Tested: **GLEON-AF-03-LED-E1-T4W-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192371
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-T4W-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18045 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

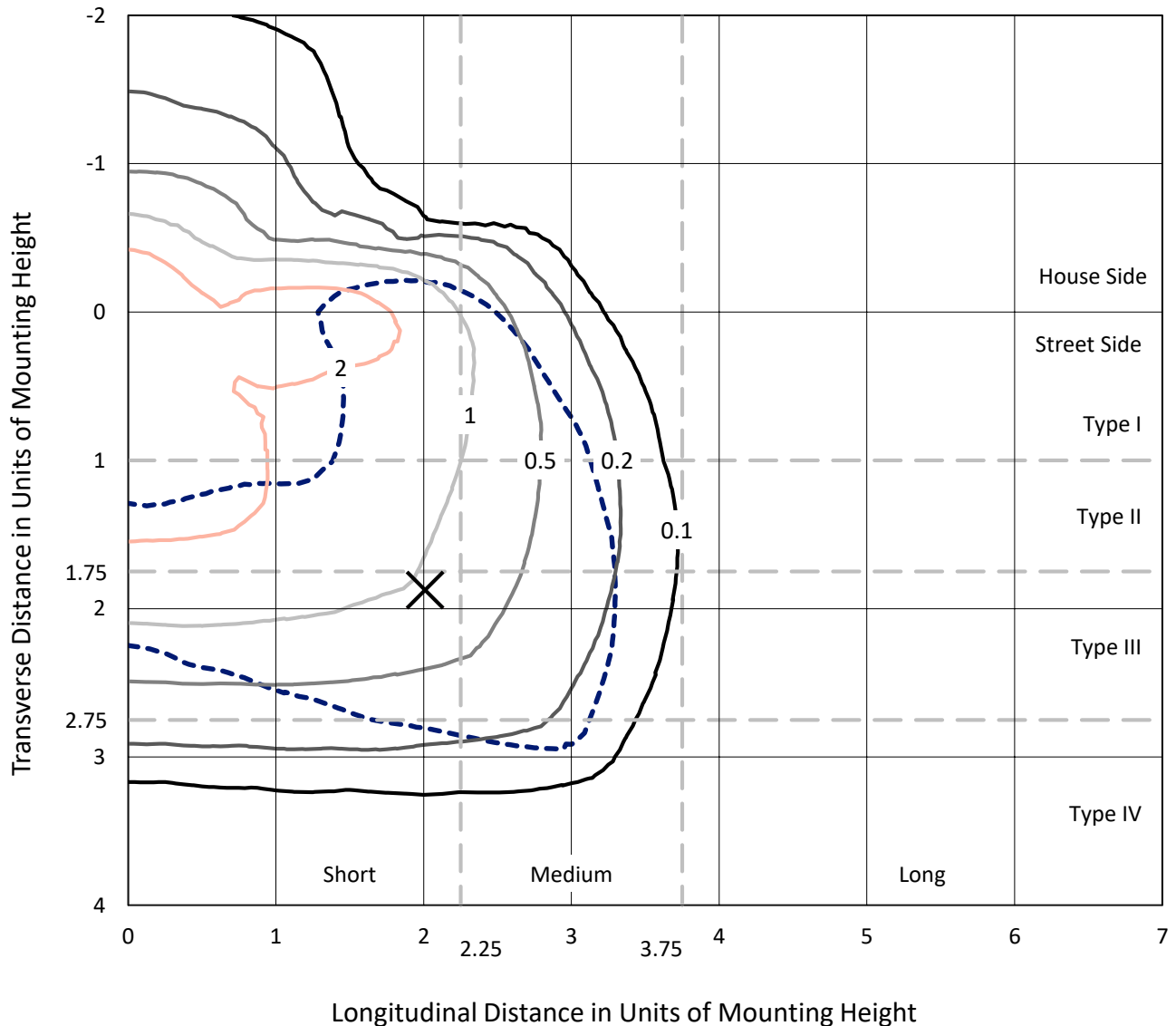
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

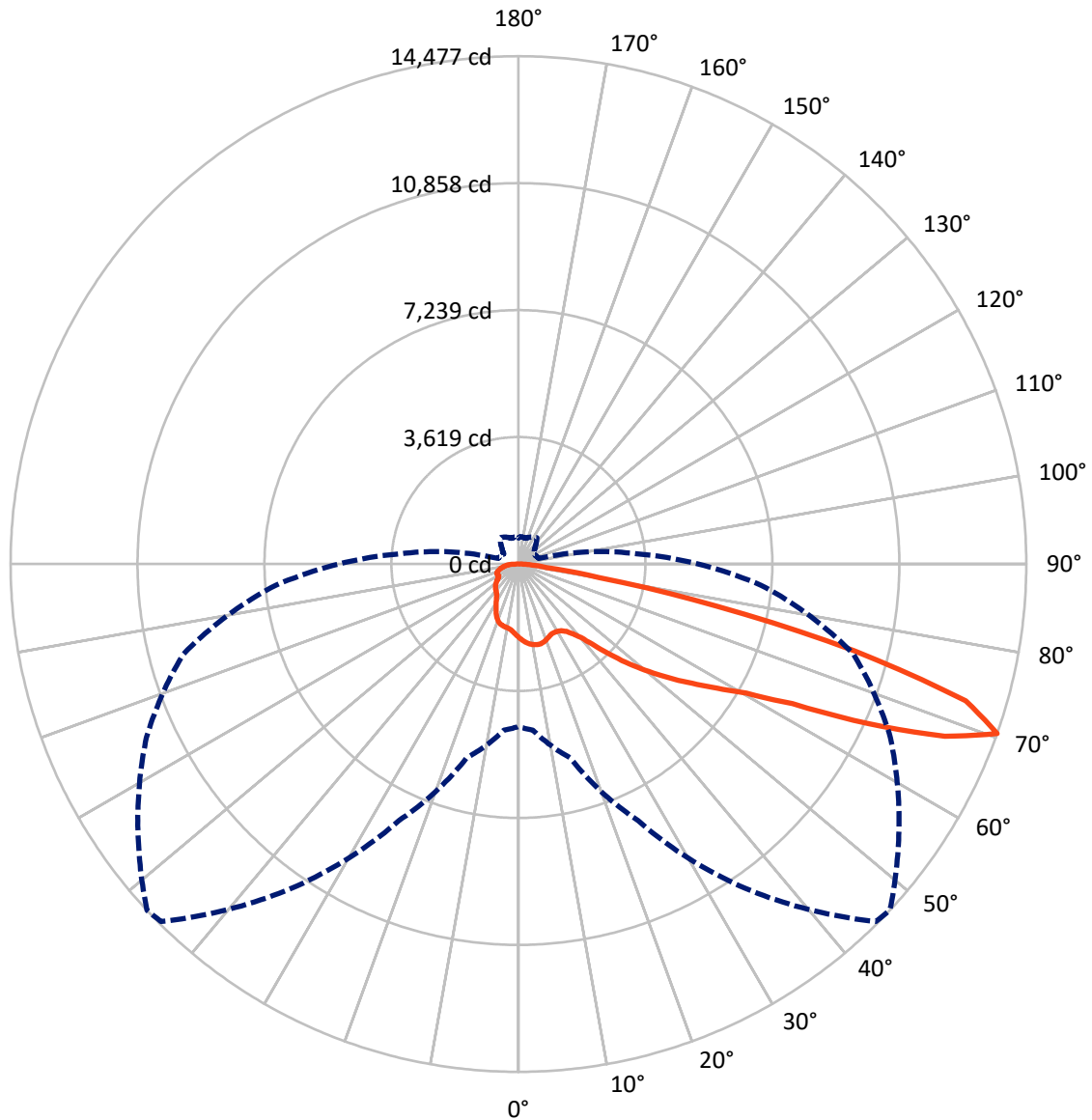
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3764.5 | 0.0 | 3764.5 |
| | % Fixture | 20.9 | 0.0 | 20.9 |
| Street Side | Lumens | 14280.4 | 0.0 | 14280.4 |
| | % Fixture | 79.1 | 0.0 | 79.1 |
| Total | Lumens | 18045.0 | 0.0 | 18045.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 200.6 | 1.1 |
| 10°-20° | 588.6 | 3.3 |
| 20°-30° | 869.2 | 4.8 |
| 30°-40° | 1263.3 | 7.0 |
| 40°-50° | 2273.5 | 12.6 |
| 50°-60° | 3938.6 | 21.8 |
| 60°-70° | 5621.5 | 31.2 |
| 70°-80° | 2885.8 | 16.0 |
| 80°-90° | 404.0 | 2.2 |
| 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° | 18045.0 | 100.0 |
| 0°-180° | 18045.0 | 100.0 |



REPORT NUMBER: P192371

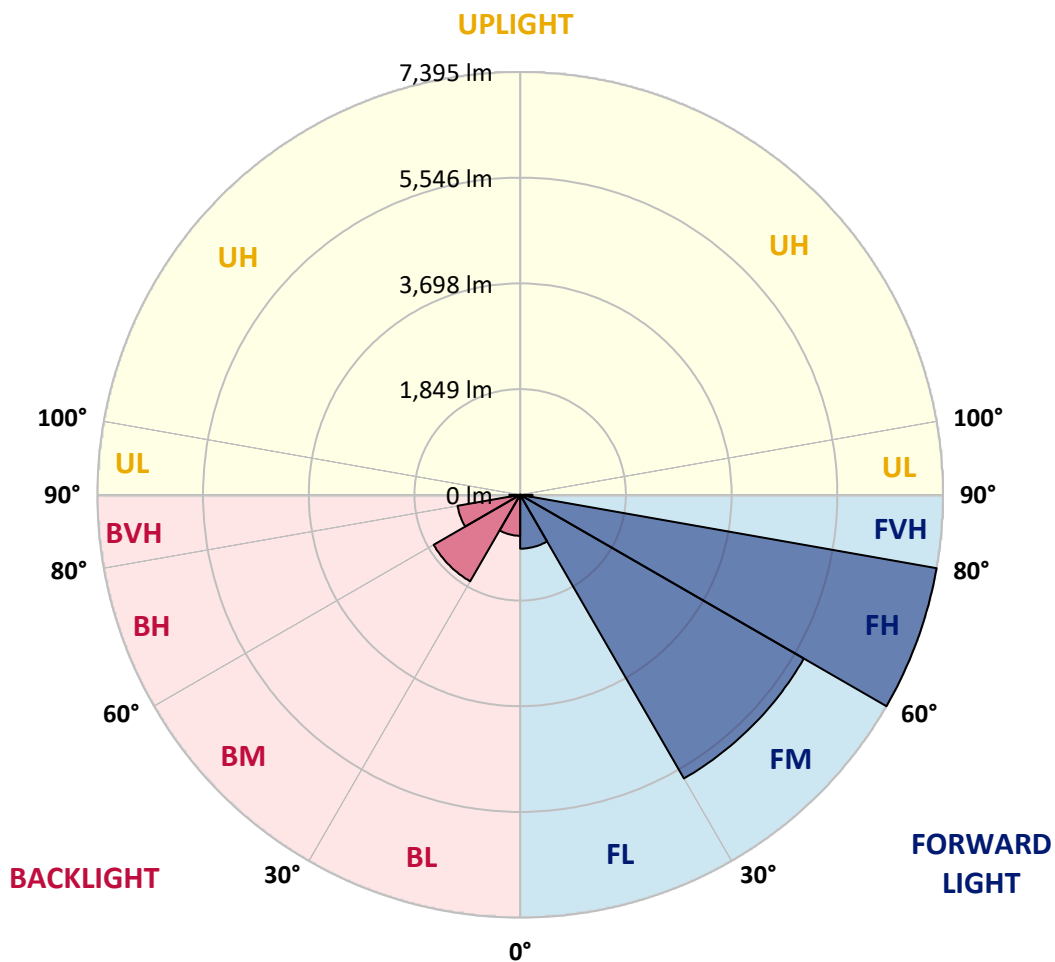
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 941.5 | 5.2 | | | |
| FM | (30°-60°) | 5728.0 | 31.7 | | | |
| FH | (60°-80°) | 7395.3 | 41.0 | | | G3/7500 |
| FVH | (80°-90°) | 215.6 | 1.2 | | | G2/225 |
| BL | (0°-30°) | 716.8 | 4.0 | B2/1000 | | |
| BM | (30°-60°) | 1747.4 | 9.7 | B2/2500 | | |
| BH | (60°-80°) | 1111.9 | 6.2 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 188.4 | 1.0 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2093.8 | 2093.8 | 2093.8 | 2093.8 | 2093.8 | 2093.8 | 2093.8 | 2093.8 | 2093.8 | 2093.8 | 2093.8 |
| 2.5° | 2216.7 | 2212.3 | 2210.5 | 2207.0 | 2202.6 | 2180.7 | 2176.3 | 2160.5 | 2138.6 | 2115.7 | 2092.0 |
| 5° | 2362.4 | 2361.5 | 2351.9 | 2334.3 | 2306.2 | 2257.9 | 2246.5 | 2207.9 | 2156.1 | 2106.1 | 2056.0 |
| 7.5° | 2490.6 | 2482.7 | 2464.3 | 2429.1 | 2380.0 | 2314.1 | 2298.3 | 2244.8 | 2173.7 | 2105.2 | 2037.6 |
| 10° | 2584.5 | 2580.1 | 2539.8 | 2491.5 | 2427.4 | 2354.5 | 2336.1 | 2276.4 | 2198.3 | 2111.3 | 2027.1 |
| 12.5° | 2638.1 | 2629.3 | 2582.8 | 2524.8 | 2448.5 | 2377.3 | 2358.9 | 2298.3 | 2210.5 | 2111.3 | 2012.1 |
| 15° | 2634.6 | 2628.4 | 2581.9 | 2518.7 | 2441.4 | 2379.1 | 2362.4 | 2301.8 | 2207.9 | 2102.6 | 1992.8 |
| 17.5° | 2564.3 | 2567.0 | 2527.5 | 2465.1 | 2401.9 | 2354.5 | 2339.6 | 2283.4 | 2190.4 | 2085.0 | 1970.0 |
| 20° | 2441.4 | 2453.7 | 2427.4 | 2372.1 | 2337.0 | 2304.5 | 2294.8 | 2247.4 | 2163.1 | 2059.5 | 1945.4 |
| 22.5° | 2318.5 | 2329.9 | 2319.4 | 2272.9 | 2267.6 | 2248.3 | 2243.0 | 2208.8 | 2139.4 | 2043.7 | 1930.5 |
| 25° | 2228.1 | 2238.6 | 2236.9 | 2196.5 | 2212.3 | 2211.4 | 2207.0 | 2190.4 | 2134.2 | 2043.7 | 1933.1 |
| 27.5° | 2203.5 | 2207.0 | 2203.5 | 2166.6 | 2188.6 | 2206.2 | 2202.6 | 2200.0 | 2150.0 | 2069.2 | 1966.5 |
| 30° | 2287.8 | 2282.5 | 2255.3 | 2180.7 | 2200.9 | 2225.5 | 2222.0 | 2223.7 | 2197.4 | 2135.9 | 2041.1 |
| 32.5° | 2624.0 | 2600.3 | 2514.3 | 2304.5 | 2250.9 | 2264.1 | 2265.8 | 2294.8 | 2299.2 | 2238.6 | 2157.0 |
| 35° | 3127.1 | 3100.7 | 2989.2 | 2636.3 | 2406.3 | 2360.7 | 2360.7 | 2404.6 | 2430.9 | 2386.1 | 2337.0 |
| 37.5° | 3659.9 | 3631.0 | 3571.3 | 3096.3 | 2732.9 | 2528.3 | 2524.0 | 2554.7 | 2592.4 | 2603.0 | 2615.3 |
| 40° | 4265.7 | 4235.0 | 4251.6 | 3612.5 | 3188.5 | 2818.9 | 2756.6 | 2734.6 | 2836.5 | 2904.1 | 3002.4 |
| 42.5° | 4928.5 | 4914.5 | 4920.6 | 4187.6 | 3707.4 | 3253.5 | 3164.8 | 3051.6 | 3174.5 | 3294.7 | 3501.0 |
| 45° | 5542.2 | 5554.4 | 5548.3 | 4803.0 | 4285.0 | 3783.7 | 3689.8 | 3470.3 | 3590.6 | 3796.9 | 4133.1 |
| 47.5° | 6079.4 | 6028.5 | 6107.5 | 5475.4 | 4932.0 | 4377.2 | 4261.3 | 3967.2 | 4089.2 | 4343.8 | 4912.7 |
| 50° | 6731.7 | 6724.7 | 6608.8 | 6372.6 | 5714.2 | 4973.3 | 4821.4 | 4480.8 | 4670.4 | 5024.2 | 5895.1 |
| 52.5° | 7417.3 | 7290.0 | 7183.8 | 7070.6 | 6543.8 | 5584.3 | 5398.2 | 4992.6 | 5353.4 | 5798.5 | 7092.5 |
| 55° | 7557.8 | 7500.7 | 7632.4 | 7822.9 | 7343.6 | 6219.0 | 6002.2 | 5634.3 | 6122.4 | 6683.4 | 8473.5 |
| 57.5° | 7858.0 | 7857.2 | 8129.3 | 8469.1 | 8167.1 | 6892.4 | 6673.8 | 6409.5 | 6987.2 | 7697.4 | 9939.5 |
| 60° | 8060.8 | 8117.9 | 8623.6 | 9282.9 | 8975.6 | 7670.2 | 7469.1 | 7304.1 | 7970.4 | 8830.8 | 11305.5 |
| 62.5° | 8167.1 | 8244.3 | 8934.3 | 9613.0 | 10118.6 | 8965.1 | 8764.0 | 8526.1 | 9271.5 | 10073.9 | 12104.4 |
| 65° | 7725.5 | 7877.4 | 8886.1 | 9898.3 | 11119.4 | 11064.1 | 10973.7 | 10555.8 | 10898.2 | 11056.2 | 11815.6 |
| 67.5° | 6503.5 | 6658.8 | 7833.5 | 9632.3 | 11834.0 | 13088.6 | 13107.9 | 12394.1 | 11899.0 | 11140.5 | 9934.3 |
| 70° | 4633.5 | 4755.6 | 5727.4 | 8075.8 | 11289.7 | 14411.5 | 14477.4 | 13241.3 | 11699.7 | 9879.8 | 6940.6 |
| 72.5° | 2200.0 | 2274.6 | 3194.7 | 5256.0 | 8958.9 | 13204.4 | 13331.7 | 12159.7 | 9948.3 | 7314.6 | 3786.4 |
| 75° | 808.5 | 831.4 | 1079.8 | 2236.0 | 5196.3 | 9737.6 | 9887.7 | 8716.6 | 6594.8 | 3641.5 | 1442.4 |
| 77.5° | 484.6 | 499.5 | 605.7 | 943.7 | 2043.7 | 5565.9 | 5788.0 | 4740.6 | 2882.1 | 1355.5 | 709.3 |
| 80° | 338.9 | 349.4 | 434.6 | 587.3 | 965.7 | 2121.0 | 2318.5 | 1934.9 | 1148.3 | 857.7 | 516.2 |
| 82.5° | 229.1 | 234.4 | 305.5 | 396.8 | 641.7 | 757.6 | 817.3 | 860.3 | 774.3 | 638.2 | 327.5 |
| 85° | 150.1 | 155.4 | 207.2 | 261.6 | 408.2 | 391.5 | 400.3 | 506.5 | 565.4 | 433.7 | 181.7 |
| 87.5° | 86.0 | 89.5 | 124.7 | 139.6 | 200.2 | 165.9 | 167.7 | 266.9 | 361.7 | 292.3 | 110.6 |
| 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° | 2093.8 | 2093.8 | 2093.8 | 2093.8 | 2093.8 | 2093.8 | 2093.8 | 2093.8 | 2093.8 | 2093.8 | 2093.8 |
| 2.5° | 2085.9 | 2074.5 | 2049.0 | 2033.2 | 2018.3 | 2014.8 | 2008.6 | 2007.7 | 2006.9 | 2006.9 | 2004.2 |
| 5° | 2039.4 | 2020.0 | 1980.5 | 1958.6 | 1940.1 | 1938.4 | 1937.5 | 1941.9 | 1943.7 | 1945.4 | 1942.8 |
| 7.5° | 2009.5 | 1983.2 | 1934.0 | 1902.4 | 1880.5 | 1875.2 | 1884.0 | 1904.2 | 1917.3 | 1922.6 | 1920.0 |
| 10° | 1991.1 | 1958.6 | 1901.5 | 1867.3 | 1848.8 | 1846.2 | 1857.6 | 1881.3 | 1908.5 | 1919.1 | 1918.2 |
| 12.5° | 1970.0 | 1933.1 | 1872.6 | 1836.6 | 1826.0 | 1831.3 | 1846.2 | 1868.2 | 1896.3 | 1912.9 | 1913.8 |
| 15° | 1948.9 | 1905.9 | 1843.6 | 1812.0 | 1807.6 | 1814.6 | 1828.7 | 1845.3 | 1867.3 | 1884.0 | 1885.7 |
| 17.5° | 1923.5 | 1878.7 | 1816.4 | 1783.9 | 1780.4 | 1783.9 | 1784.8 | 1793.5 | 1807.6 | 1823.4 | 1827.8 |
| 20° | 1896.3 | 1850.6 | 1785.6 | 1753.2 | 1737.4 | 1723.3 | 1707.5 | 1709.3 | 1713.7 | 1729.5 | 1733.0 |
| 22.5° | 1876.9 | 1831.3 | 1761.9 | 1717.2 | 1675.0 | 1632.9 | 1601.3 | 1596.9 | 1598.6 | 1611.8 | 1616.2 |
| 25° | 1878.7 | 1830.4 | 1755.8 | 1678.5 | 1586.4 | 1518.8 | 1476.6 | 1469.6 | 1468.7 | 1478.4 | 1484.5 |
| 27.5° | 1912.9 | 1864.7 | 1778.6 | 1639.0 | 1489.8 | 1389.7 | 1344.9 | 1339.7 | 1332.6 | 1335.3 | 1342.3 |
| 30° | 1989.3 | 1944.5 | 1833.9 | 1598.6 | 1385.3 | 1263.3 | 1216.8 | 1211.5 | 1201.8 | 1197.5 | 1202.7 |
| 32.5° | 2114.0 | 2077.1 | 1914.7 | 1560.0 | 1280.9 | 1155.3 | 1107.9 | 1096.5 | 1090.3 | 1085.1 | 1089.5 |
| 35° | 2321.2 | 2305.4 | 2022.7 | 1517.9 | 1188.7 | 1071.9 | 1028.9 | 1011.3 | 1002.6 | 1012.2 | 1019.2 |
| 37.5° | 2646.0 | 2654.8 | 2164.0 | 1452.0 | 1117.6 | 1016.6 | 980.6 | 960.4 | 947.2 | 955.2 | 963.1 |
| 40° | 3106.0 | 3112.1 | 2320.3 | 1359.0 | 1056.1 | 984.1 | 945.5 | 927.1 | 908.6 | 894.6 | 893.7 |
| 42.5° | 3710.0 | 3647.7 | 2473.9 | 1258.0 | 985.0 | 963.9 | 920.9 | 898.1 | 870.0 | 831.4 | 823.5 |
| 45° | 4426.4 | 4207.8 | 2590.7 | 1142.1 | 905.1 | 939.3 | 893.7 | 862.1 | 818.2 | 776.1 | 771.7 |
| 47.5° | 5251.6 | 4809.1 | 2647.7 | 1021.9 | 830.5 | 903.4 | 860.3 | 810.3 | 755.0 | 733.9 | 731.3 |
| 50° | 6259.4 | 5522.8 | 2674.9 | 905.1 | 765.5 | 855.9 | 812.1 | 753.2 | 706.7 | 702.3 | 699.7 |
| 52.5° | 7406.8 | 6381.4 | 2683.7 | 809.4 | 712.0 | 794.5 | 772.5 | 715.5 | 678.6 | 682.1 | 682.1 |
| 55° | 8607.8 | 7268.1 | 2564.3 | 740.1 | 662.8 | 731.3 | 746.2 | 700.6 | 669.8 | 683.9 | 689.1 |
| 57.5° | 9710.4 | 8053.8 | 2188.6 | 686.5 | 616.3 | 683.0 | 736.6 | 714.6 | 693.5 | 750.6 | 754.1 |
| 60° | 10556.7 | 8518.2 | 1634.6 | 638.2 | 582.0 | 666.3 | 762.0 | 768.2 | 773.4 | 909.5 | 927.9 |
| 62.5° | 10734.0 | 8363.7 | 1123.7 | 600.5 | 566.2 | 680.4 | 808.5 | 809.4 | 803.3 | 898.1 | 909.5 |
| 65° | 9920.2 | 7386.6 | 817.3 | 579.4 | 553.1 | 705.8 | 848.0 | 829.6 | 789.2 | 861.2 | 840.1 |
| 67.5° | 7878.2 | 5565.0 | 680.4 | 563.6 | 533.8 | 704.1 | 890.2 | 848.0 | 781.3 | 843.7 | 809.4 |
| 70° | 5113.7 | 3365.0 | 605.7 | 550.4 | 510.9 | 670.7 | 914.8 | 846.3 | 758.5 | 784.8 | 744.5 |
| 72.5° | 2495.0 | 1504.7 | 555.7 | 531.1 | 487.2 | 624.2 | 913.9 | 830.5 | 734.8 | 733.0 | 711.1 |
| 75° | 976.2 | 689.1 | 510.1 | 502.2 | 446.8 | 571.5 | 889.3 | 807.7 | 706.7 | 678.6 | 670.7 |
| 77.5° | 571.5 | 491.6 | 452.1 | 459.1 | 398.6 | 518.8 | 853.3 | 768.2 | 668.1 | 634.7 | 625.9 |
| 80° | 416.1 | 367.8 | 385.4 | 396.8 | 340.6 | 466.2 | 805.0 | 719.9 | 625.1 | 641.7 | 629.5 |
| 82.5° | 266.9 | 237.0 | 312.5 | 323.9 | 283.6 | 412.6 | 752.4 | 669.0 | 564.5 | 512.7 | 500.4 |
| 85° | 136.1 | 150.1 | 232.6 | 246.7 | 218.6 | 338.9 | 688.3 | 601.4 | 496.0 | 426.7 | 433.7 |
| 87.5° | 76.4 | 102.7 | 148.4 | 165.9 | 154.5 | 260.7 | 558.3 | 496.0 | 404.7 | 329.2 | 289.7 |
| 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)