

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: NEO-RAY

Report Number: P333854

Luminaire Tested: **SA2XXRDP-C1005D835-4F0-1E-UDD-A**

Issue Date: 10/11/2019

Test Information

Test Method: LM-79-08
Report Number: P333854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-29)
Test Lab: INNOVATIONS CENTER
Issue Date: 10/11/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: SA2XXRDP-C1005D835-4F0-1E-UDD-A
Description: DEFINE 2 REGRESSED DIRECT LED LUMINAIRE, ASYMMETRIC DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 1005 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

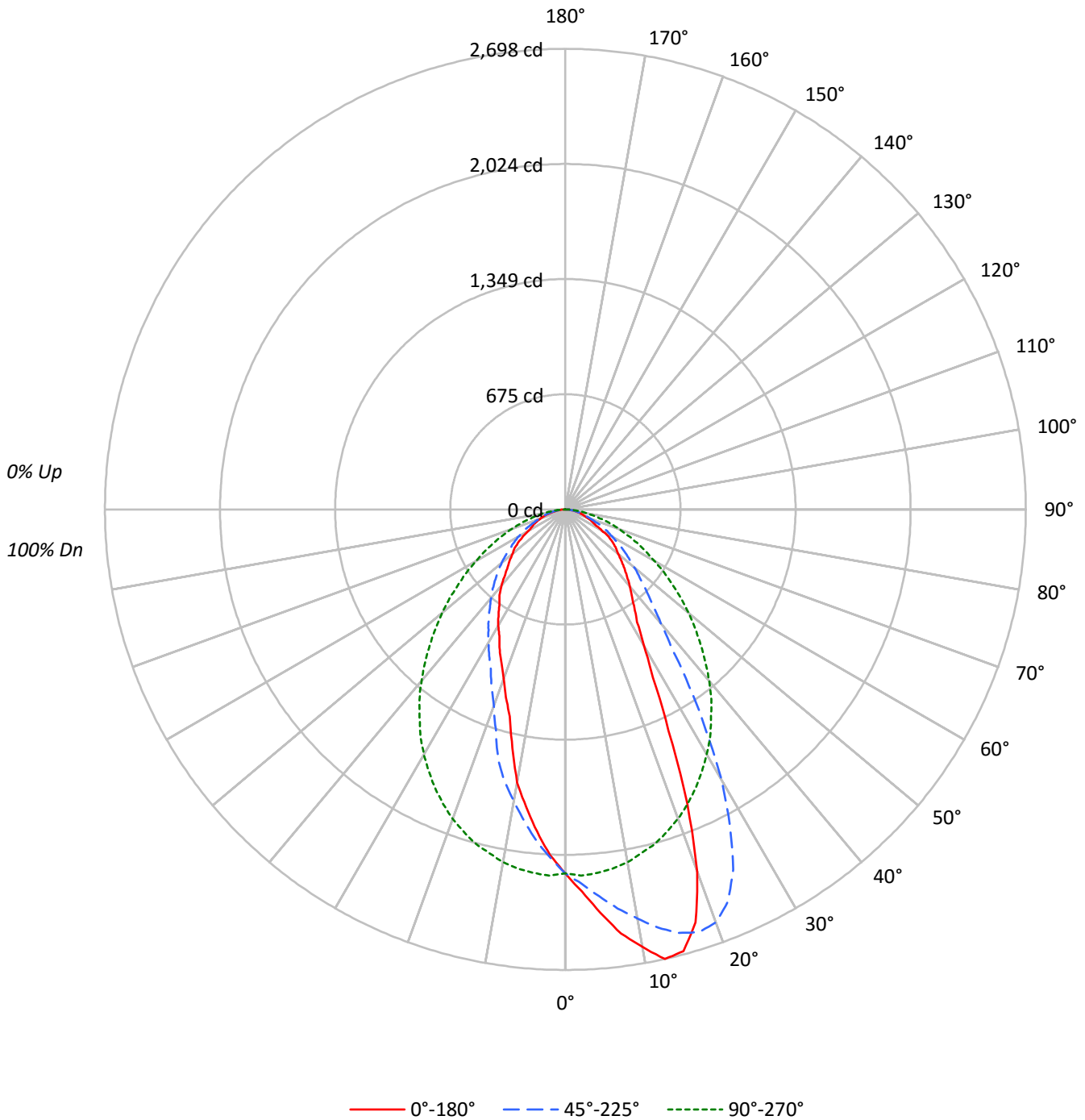
Lumens per Lamp: N/A
Luminaire Lumens: 3685.6 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 1.16 / 1.02
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 41.1
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: 25 FT



TEST NUMBER: P333854
CATALOG NUMBER: SA2XXRDP-C1005D835-4F0-1E-UDD-A

Luminous Intensity Polar Plot





TEST NUMBER: P333854

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | |
| RC | 80 | | | | 70 | | | | 50 | | | | 30 | | | | 10 | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 111 | 106 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 78 | 76 |
| 3 | 94 | 85 | 78 | 72 | 92 | 84 | 77 | 72 | 81 | 75 | 71 | 78 | 73 | 69 | 76 | 72 | 68 | 66 |
| 4 | 87 | 77 | 69 | 63 | 85 | 76 | 68 | 63 | 73 | 67 | 62 | 71 | 66 | 61 | 69 | 64 | 60 | 59 |
| 5 | 81 | 70 | 62 | 56 | 79 | 69 | 61 | 56 | 67 | 60 | 55 | 65 | 59 | 55 | 63 | 58 | 54 | 52 |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 55 | 50 | 61 | 54 | 49 | 60 | 54 | 49 | 58 | 53 | 49 | 47 |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | 39 |
| 9 | 62 | 50 | 43 | 38 | 61 | 50 | 42 | 37 | 49 | 42 | 37 | 47 | 41 | 37 | 47 | 41 | 37 | 35 |
| 10 | 59 | 47 | 39 | 35 | 58 | 46 | 39 | 35 | 45 | 39 | 34 | 44 | 38 | 34 | 44 | 38 | 34 | 33 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 34436 | 34436 | 34436 |
| 5° | 38459 | 34652 | 30725 |
| 10° | 42671 | 34408 | 26632 |
| 15° | 44769 | 33904 | 20985 |
| 20° | 38811 | 33158 | 18158 |
| 25° | 25454 | 32135 | 16212 |
| 30° | 17132 | 30894 | 14673 |
| 35° | 13876 | 29331 | 13234 |
| 40° | 12341 | 27632 | 12246 |
| 45° | 11168 | 25635 | 10930 |
| 50° | 10163 | 23659 | 10125 |
| 55° | 9554 | 21467 | 9430 |
| 60° | 7992 | 19456 | 7899 |
| 65° | 6739 | 17666 | 7645 |
| 70° | 6227 | 15777 | 7209 |
| 75° | 5827 | 13730 | 6656 |
| 80° | 5374 | 11297 | 5923 |
| 85° | 4946 | 8929 | 5224 |



TEST NUMBER: P333854

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 202.3 | 5.5 |
| 10°-20° | 564.7 | 15.3 |
| 20°-30° | 726.7 | 19.7 |
| 30°-40° | 689.4 | 18.7 |
| 40°-50° | 590.7 | 16.0 |
| 50°-60° | 450.0 | 12.2 |
| 60°-70° | 283.8 | 7.7 |
| 70°-80° | 141.6 | 3.8 |
| 80°-90° | 36.4 | 1.0 |
| 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°-30° | 1493.6 | 40.5 |
| 0°-40° | 2183.0 | 59.2 |
| 0°-60° | 3223.7 | 87.5 |
| 0°-90° | 3685.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3685.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2133 | 2133 | 2133 | 2133 | 2133 | |
| 5° | 2373 | 2275 | 2138 | 1948 | 1896 | 234 |
| 15° | 2678 | 2569 | 2028 | 1518 | 1255 | 728 |
| 25° | 1429 | 2328 | 1804 | 1033 | 910 | 675 |
| 35° | 704 | 1265 | 1488 | 784 | 671 | 448 |
| 45° | 489 | 667 | 1123 | 579 | 479 | 378 |
| 55° | 339 | 415 | 763 | 392 | 335 | 299 |
| 65° | 176 | 237 | 462 | 236 | 200 | 178 |
| 75° | 93 | 104 | 220 | 120 | 107 | 99 |
| 85° | 27 | 27 | 48 | 28 | 28 | 30 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P333854

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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2132.8 | 2132.8 | 2132.8 | 2132.8 | 2132.8 | 2132.8 | 2132.8 | 2132.8 | 2132.8 | 2132.8 | 2132.8 |
| 2.5° | 2241.0 | 2243.2 | 2245.5 | 2240.3 | 2240.3 | 2235.8 | 2226.2 | 2218.8 | 2198.0 | 2195.1 | 2195.1 |
| 5° | 2372.9 | 2371.5 | 2374.4 | 2364.8 | 2351.4 | 2348.5 | 2334.4 | 2315.9 | 2296.6 | 2275.1 | 2270.7 |
| 7.5° | 2506.3 | 2497.4 | 2493.7 | 2498.2 | 2484.1 | 2464.8 | 2441.1 | 2418.9 | 2385.5 | 2358.1 | 2341.1 |
| 10° | 2602.7 | 2627.1 | 2612.3 | 2586.4 | 2591.6 | 2556.7 | 2538.2 | 2506.3 | 2479.6 | 2433.0 | 2422.6 |
| 12.5° | 2697.5 | 2703.5 | 2701.2 | 2689.4 | 2679.7 | 2658.2 | 2631.6 | 2604.9 | 2550.1 | 2509.3 | 2466.3 |
| 15° | 2678.3 | 2692.3 | 2696.0 | 2691.6 | 2695.3 | 2693.8 | 2680.5 | 2657.5 | 2614.5 | 2568.6 | 2528.6 |
| 17.5° | 2536.0 | 2552.3 | 2565.6 | 2577.5 | 2596.0 | 2632.3 | 2643.4 | 2647.9 | 2630.1 | 2597.5 | 2564.1 |
| 20° | 2258.8 | 2242.5 | 2310.7 | 2345.5 | 2375.2 | 2449.3 | 2513.0 | 2537.5 | 2576.7 | 2576.0 | 2568.6 |
| 22.5° | 1866.0 | 1874.9 | 1938.7 | 1981.6 | 2082.4 | 2156.5 | 2231.4 | 2340.3 | 2425.6 | 2488.5 | 2527.1 |
| 25° | 1428.8 | 1457.0 | 1521.4 | 1577.8 | 1674.1 | 1811.9 | 1937.2 | 2082.4 | 2219.5 | 2327.7 | 2430.7 |
| 27.5° | 1111.6 | 1115.3 | 1173.9 | 1230.9 | 1290.2 | 1409.5 | 1577.0 | 1751.2 | 1946.8 | 2087.6 | 2265.5 |
| 30° | 918.9 | 914.5 | 936.0 | 967.8 | 1016.8 | 1104.2 | 1222.8 | 1393.2 | 1588.1 | 1831.2 | 2047.6 |
| 32.5° | 782.6 | 784.1 | 798.9 | 820.4 | 858.9 | 910.8 | 982.7 | 1113.1 | 1294.7 | 1532.6 | 1795.6 |
| 35° | 704.0 | 703.3 | 715.1 | 732.2 | 749.2 | 787.0 | 842.6 | 915.2 | 1042.0 | 1265.0 | 1524.4 |
| 37.5° | 638.8 | 642.5 | 647.7 | 658.8 | 679.6 | 701.8 | 736.6 | 787.8 | 884.1 | 1022.7 | 1255.4 |
| 40° | 585.5 | 586.9 | 595.1 | 604.0 | 615.1 | 631.4 | 658.8 | 698.1 | 764.1 | 869.3 | 1028.6 |
| 42.5° | 536.5 | 538.0 | 543.2 | 551.4 | 559.5 | 575.8 | 597.3 | 629.9 | 680.3 | 756.6 | 881.1 |
| 45° | 489.1 | 489.1 | 494.3 | 498.0 | 507.6 | 522.5 | 541.0 | 569.1 | 606.2 | 667.0 | 754.4 |
| 47.5° | 443.2 | 443.2 | 446.9 | 453.5 | 460.2 | 472.1 | 491.3 | 515.0 | 541.7 | 591.4 | 669.2 |
| 50° | 404.6 | 405.4 | 407.6 | 412.8 | 416.5 | 426.9 | 440.9 | 461.0 | 489.1 | 525.4 | 587.7 |
| 52.5° | 373.5 | 372.8 | 375.7 | 377.2 | 379.4 | 386.1 | 395.7 | 412.8 | 437.2 | 467.6 | 516.5 |
| 55° | 339.4 | 336.4 | 340.9 | 344.6 | 346.8 | 349.8 | 355.7 | 366.8 | 388.3 | 415.0 | 453.5 |
| 57.5° | 299.4 | 297.9 | 300.1 | 303.8 | 310.5 | 317.9 | 321.6 | 329.0 | 340.2 | 360.9 | 401.7 |
| 60° | 247.5 | 247.5 | 254.2 | 256.4 | 264.6 | 274.9 | 285.3 | 291.2 | 302.4 | 315.0 | 343.1 |
| 62.5° | 201.6 | 202.3 | 204.5 | 206.8 | 210.5 | 223.8 | 239.4 | 254.2 | 264.6 | 276.4 | 292.7 |
| 65° | 176.4 | 177.9 | 177.9 | 179.3 | 182.3 | 185.3 | 191.2 | 201.6 | 220.1 | 237.1 | 251.2 |
| 67.5° | 154.1 | 154.1 | 154.9 | 156.4 | 157.1 | 160.8 | 163.0 | 168.2 | 171.9 | 191.2 | 210.5 |
| 70° | 131.9 | 134.1 | 133.4 | 134.9 | 135.6 | 137.1 | 140.1 | 142.3 | 149.0 | 152.7 | 163.0 |
| 72.5° | 111.2 | 112.6 | 112.6 | 113.4 | 115.6 | 115.6 | 117.8 | 120.1 | 123.8 | 126.7 | 131.2 |
| 75° | 93.4 | 92.6 | 93.4 | 94.9 | 95.6 | 96.3 | 96.3 | 99.3 | 101.5 | 104.5 | 108.2 |
| 77.5° | 75.6 | 76.3 | 76.3 | 76.3 | 76.3 | 77.8 | 77.8 | 79.3 | 81.5 | 83.0 | 85.2 |
| 80° | 57.8 | 58.5 | 57.8 | 58.5 | 59.3 | 60.0 | 59.3 | 60.0 | 62.3 | 63.7 | 63.7 |
| 82.5° | 41.5 | 41.5 | 42.2 | 42.2 | 42.2 | 42.2 | 43.7 | 43.7 | 45.2 | 44.5 | 45.2 |
| 85° | 26.7 | 25.9 | 25.9 | 25.9 | 26.7 | 27.4 | 26.7 | 26.7 | 27.4 | 27.4 | 27.4 |
| 87.5° | 11.9 | 12.6 | 12.6 | 12.6 | 12.6 | 12.6 | 12.6 | 13.3 | 12.6 | 13.3 | 12.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P333854

CATALOG NUMBER: SA2XXRDP-C1005D835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° | 100° | 105° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2132.8 | 2132.8 | 2132.8 | 2132.8 | 2132.8 | 2132.8 | 2132.8 | 2132.8 | 2132.8 | 2132.8 | 2132.8 |
| 2.5° | 2196.6 | 2190.6 | 2185.4 | 2172.1 | 2165.4 | 2150.6 | 2148.4 | 2147.6 | 2128.4 | 2109.9 | 2104.7 |
| 5° | 2258.8 | 2247.0 | 2229.2 | 2208.4 | 2186.9 | 2164.7 | 2149.9 | 2138.0 | 2108.4 | 2080.2 | 2063.9 |
| 7.5° | 2320.3 | 2298.8 | 2270.7 | 2235.1 | 2204.7 | 2169.1 | 2144.7 | 2122.4 | 2081.7 | 2044.6 | 2020.2 |
| 10° | 2390.7 | 2349.2 | 2308.5 | 2254.4 | 2212.1 | 2170.6 | 2132.1 | 2098.7 | 2051.3 | 1997.9 | 1960.2 |
| 12.5° | 2434.4 | 2387.8 | 2327.7 | 2275.1 | 2217.3 | 2161.7 | 2106.9 | 2061.7 | 2003.9 | 1948.3 | 1901.6 |
| 15° | 2473.0 | 2424.1 | 2355.9 | 2280.3 | 2209.9 | 2141.0 | 2081.7 | 2028.3 | 1955.7 | 1889.8 | 1834.9 |
| 17.5° | 2508.6 | 2441.1 | 2370.7 | 2283.3 | 2205.5 | 2121.7 | 2046.9 | 1980.2 | 1900.9 | 1823.1 | 1760.8 |
| 20° | 2524.1 | 2457.4 | 2372.9 | 2285.5 | 2189.1 | 2086.1 | 2003.9 | 1929.8 | 1843.1 | 1756.4 | 1682.2 |
| 22.5° | 2514.5 | 2466.3 | 2370.0 | 2261.0 | 2161.7 | 2052.8 | 1957.2 | 1868.3 | 1769.7 | 1680.8 | 1591.8 |
| 25° | 2464.1 | 2446.3 | 2357.4 | 2243.2 | 2130.6 | 2005.4 | 1897.9 | 1803.8 | 1694.1 | 1599.2 | 1505.9 |
| 27.5° | 2371.5 | 2397.4 | 2334.4 | 2210.6 | 2089.1 | 1954.2 | 1837.1 | 1731.2 | 1619.3 | 1513.3 | 1419.9 |
| 30° | 2224.7 | 2312.9 | 2289.2 | 2176.5 | 2036.5 | 1904.6 | 1769.0 | 1657.1 | 1535.5 | 1425.8 | 1333.9 |
| 32.5° | 2023.9 | 2184.0 | 2218.8 | 2129.1 | 1983.1 | 1834.9 | 1691.1 | 1580.0 | 1451.8 | 1334.7 | 1245.8 |
| 35° | 1808.2 | 2026.1 | 2126.2 | 2066.1 | 1920.9 | 1764.5 | 1617.8 | 1488.1 | 1360.6 | 1246.5 | 1157.6 |
| 37.5° | 1552.6 | 1843.1 | 1997.2 | 1990.5 | 1852.0 | 1692.6 | 1533.3 | 1405.1 | 1273.9 | 1161.3 | 1068.6 |
| 40° | 1305.0 | 1626.7 | 1843.8 | 1892.0 | 1779.3 | 1603.7 | 1442.1 | 1311.0 | 1183.5 | 1073.8 | 963.4 |
| 42.5° | 1082.7 | 1402.9 | 1682.2 | 1774.9 | 1691.1 | 1517.0 | 1354.7 | 1216.1 | 1093.1 | 990.8 | 877.4 |
| 45° | 911.5 | 1191.7 | 1485.9 | 1635.6 | 1585.9 | 1424.4 | 1253.2 | 1122.7 | 1006.4 | 916.7 | 808.5 |
| 47.5° | 789.2 | 993.0 | 1288.7 | 1484.4 | 1478.5 | 1325.0 | 1154.6 | 1029.4 | 919.7 | 836.7 | 744.8 |
| 50° | 687.7 | 859.7 | 1100.5 | 1330.2 | 1349.5 | 1225.7 | 1065.7 | 941.9 | 841.1 | 752.9 | 682.5 |
| 52.5° | 596.6 | 730.7 | 941.2 | 1159.0 | 1222.8 | 1119.8 | 965.6 | 853.7 | 756.6 | 677.3 | 619.5 |
| 55° | 519.5 | 629.2 | 793.7 | 999.7 | 1082.7 | 1007.1 | 869.3 | 762.6 | 683.3 | 615.1 | 563.2 |
| 57.5° | 452.1 | 538.0 | 675.1 | 847.8 | 941.9 | 890.8 | 772.9 | 684.8 | 614.4 | 550.6 | 509.1 |
| 60° | 389.1 | 456.5 | 568.4 | 707.0 | 813.7 | 780.4 | 683.3 | 602.5 | 544.7 | 491.3 | 452.8 |
| 62.5° | 329.8 | 385.4 | 477.3 | 583.2 | 678.8 | 669.9 | 595.1 | 530.6 | 481.7 | 434.3 | 403.1 |
| 65° | 274.9 | 317.2 | 392.0 | 480.2 | 558.8 | 565.4 | 508.4 | 462.4 | 417.2 | 378.7 | 349.8 |
| 67.5° | 227.5 | 256.4 | 312.7 | 390.5 | 450.6 | 471.3 | 432.8 | 395.7 | 358.7 | 327.6 | 301.6 |
| 70° | 184.5 | 206.8 | 245.3 | 305.3 | 359.4 | 381.7 | 361.6 | 334.2 | 303.1 | 278.6 | 257.2 |
| 72.5° | 140.8 | 162.3 | 188.2 | 228.3 | 272.7 | 297.2 | 293.5 | 275.7 | 252.0 | 232.7 | 212.7 |
| 75° | 112.6 | 119.3 | 138.6 | 168.2 | 204.5 | 225.3 | 230.5 | 220.1 | 200.1 | 184.5 | 172.7 |
| 77.5° | 87.4 | 91.9 | 102.3 | 120.1 | 145.3 | 163.8 | 171.9 | 170.4 | 155.6 | 145.3 | 134.1 |
| 80° | 66.7 | 68.9 | 73.4 | 80.0 | 97.8 | 116.3 | 121.5 | 121.5 | 111.9 | 108.2 | 97.1 |
| 82.5° | 46.7 | 48.2 | 50.4 | 53.4 | 59.3 | 74.8 | 80.8 | 82.3 | 77.1 | 71.9 | 63.7 |
| 85° | 28.9 | 28.2 | 29.6 | 31.9 | 33.3 | 37.8 | 46.7 | 48.2 | 46.7 | 40.8 | 38.5 |
| 87.5° | 12.6 | 13.3 | 13.3 | 12.6 | 13.3 | 14.1 | 17.8 | 21.5 | 18.5 | 16.3 | 14.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P333854

CATALOG NUMBER: SA2XXRDP-C1005D835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 110° | 115° | 120° | 125° | 130° | 135° | 140° | 145° | 150° | 155° | 160° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2132.8 | 2132.8 | 2132.8 | 2132.8 | 2132.8 | 2132.8 | 2132.8 | 2132.8 | 2132.8 | 2132.8 | 2132.8 |
| 2.5° | 2095.0 | 2089.8 | 2080.2 | 2065.4 | 2056.5 | 2040.9 | 2030.6 | 2036.5 | 2038.0 | 2036.5 | 2035.0 |
| 5° | 2046.1 | 2030.6 | 2009.1 | 1988.3 | 1969.0 | 1948.3 | 1936.4 | 1931.3 | 1920.9 | 1914.9 | 1912.0 |
| 7.5° | 1990.5 | 1967.6 | 1937.2 | 1903.8 | 1872.7 | 1843.1 | 1829.7 | 1819.3 | 1800.1 | 1789.7 | 1780.1 |
| 10° | 1926.8 | 1884.6 | 1854.2 | 1806.7 | 1777.8 | 1735.6 | 1706.7 | 1707.4 | 1678.5 | 1662.2 | 1650.4 |
| 12.5° | 1856.4 | 1809.0 | 1753.4 | 1711.9 | 1668.9 | 1637.0 | 1600.7 | 1582.9 | 1551.8 | 1536.3 | 1499.2 |
| 15° | 1777.1 | 1723.0 | 1669.7 | 1611.8 | 1571.1 | 1518.5 | 1468.1 | 1406.6 | 1356.9 | 1313.9 | 1302.1 |
| 17.5° | 1692.6 | 1625.9 | 1573.3 | 1514.0 | 1450.3 | 1354.7 | 1292.4 | 1254.6 | 1225.0 | 1202.8 | 1185.0 |
| 20° | 1605.2 | 1537.0 | 1479.9 | 1377.7 | 1283.5 | 1223.5 | 1180.5 | 1153.1 | 1122.0 | 1097.5 | 1084.2 |
| 22.5° | 1513.3 | 1441.4 | 1358.4 | 1241.3 | 1173.1 | 1127.9 | 1090.9 | 1058.3 | 1039.7 | 1021.9 | 1010.1 |
| 25° | 1427.3 | 1349.5 | 1221.3 | 1142.7 | 1083.5 | 1033.1 | 1006.4 | 987.1 | 964.9 | 938.9 | 927.1 |
| 27.5° | 1337.6 | 1213.9 | 1116.8 | 1059.7 | 999.0 | 967.1 | 944.1 | 912.3 | 892.3 | 882.6 | 869.3 |
| 30° | 1234.6 | 1110.9 | 1039.0 | 975.3 | 935.2 | 898.9 | 870.8 | 854.5 | 835.2 | 815.2 | 807.0 |
| 32.5° | 1119.8 | 1027.1 | 959.0 | 908.6 | 867.8 | 838.2 | 817.4 | 788.5 | 775.9 | 765.5 | 746.3 |
| 35° | 1028.6 | 953.8 | 890.8 | 847.8 | 809.3 | 784.1 | 758.1 | 742.6 | 717.4 | 707.0 | 700.3 |
| 37.5° | 945.6 | 880.4 | 833.0 | 785.5 | 755.9 | 726.3 | 711.4 | 685.5 | 675.9 | 659.6 | 646.2 |
| 40° | 877.4 | 813.7 | 768.5 | 731.4 | 697.4 | 676.6 | 656.6 | 636.6 | 620.3 | 613.6 | 596.6 |
| 42.5° | 807.8 | 758.9 | 713.7 | 672.2 | 652.1 | 629.9 | 603.2 | 589.9 | 572.9 | 561.0 | 552.1 |
| 45° | 744.8 | 698.8 | 660.3 | 627.0 | 601.8 | 578.8 | 562.5 | 538.0 | 528.4 | 506.9 | 498.0 |
| 47.5° | 689.2 | 644.7 | 607.7 | 575.1 | 549.9 | 536.5 | 512.8 | 491.3 | 478.0 | 463.2 | 450.6 |
| 50° | 629.2 | 593.6 | 558.0 | 529.9 | 507.6 | 486.1 | 461.7 | 452.1 | 428.3 | 421.7 | 415.0 |
| 52.5° | 574.3 | 541.0 | 509.1 | 481.7 | 459.5 | 438.7 | 418.0 | 404.6 | 390.5 | 383.9 | 379.4 |
| 55° | 523.9 | 491.3 | 460.2 | 435.8 | 413.5 | 392.0 | 378.7 | 363.1 | 355.7 | 350.5 | 344.6 |
| 57.5° | 472.1 | 442.4 | 418.0 | 392.8 | 370.5 | 352.8 | 336.4 | 327.6 | 320.1 | 314.2 | 306.1 |
| 60° | 423.2 | 395.0 | 373.5 | 350.5 | 327.6 | 313.5 | 301.6 | 290.5 | 281.6 | 271.2 | 268.3 |
| 62.5° | 371.3 | 347.6 | 328.3 | 306.1 | 286.8 | 274.2 | 263.1 | 252.7 | 241.6 | 225.3 | 220.8 |
| 65° | 324.6 | 305.3 | 284.6 | 266.0 | 248.3 | 235.7 | 219.4 | 207.5 | 203.1 | 201.6 | 200.8 |
| 67.5° | 281.6 | 263.1 | 245.3 | 226.0 | 209.7 | 195.6 | 186.0 | 184.5 | 181.6 | 180.8 | 178.6 |
| 70° | 238.6 | 221.6 | 203.8 | 186.0 | 170.4 | 168.2 | 165.3 | 162.3 | 158.6 | 157.1 | 155.6 |
| 72.5° | 200.1 | 182.3 | 164.5 | 151.2 | 146.7 | 143.8 | 140.8 | 137.8 | 135.6 | 134.1 | 133.4 |
| 75° | 159.3 | 143.0 | 131.2 | 126.0 | 122.3 | 120.1 | 115.6 | 113.4 | 111.9 | 109.7 | 108.9 |
| 77.5° | 121.5 | 111.2 | 105.2 | 102.3 | 97.8 | 95.6 | 92.6 | 90.4 | 88.2 | 88.2 | 86.7 |
| 80° | 87.4 | 83.0 | 79.3 | 74.8 | 73.4 | 70.4 | 69.7 | 67.4 | 68.2 | 66.0 | 66.0 |
| 82.5° | 63.0 | 57.1 | 54.1 | 52.6 | 51.1 | 48.9 | 48.2 | 47.4 | 47.4 | 45.9 | 45.9 |
| 85° | 34.8 | 33.3 | 31.9 | 30.4 | 30.4 | 28.2 | 28.9 | 28.2 | 28.2 | 26.7 | 25.9 |
| 87.5° | 14.1 | 13.3 | 11.9 | 11.9 | 11.9 | 11.1 | 11.1 | 10.4 | 10.4 | 10.4 | 9.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



TEST NUMBER: P333854

CATALOG NUMBER: SA2XXRDP-C1005D835-4F0-1E-UDD-A

CANDELA DISTRIBUTION (continued):

| | 165° | 170° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 2132.8 | 2132.8 | 2132.8 | 2132.8 |
| 2.5° | 2026.9 | 2028.3 | 2026.1 | 2027.6 |
| 5° | 1908.3 | 1899.4 | 1897.9 | 1895.7 |
| 7.5° | 1768.2 | 1767.5 | 1763.0 | 1757.8 |
| 10° | 1634.1 | 1630.4 | 1629.6 | 1624.4 |
| 12.5° | 1477.0 | 1448.1 | 1445.1 | 1430.3 |
| 15° | 1284.3 | 1279.8 | 1265.0 | 1255.4 |
| 17.5° | 1176.8 | 1162.0 | 1156.8 | 1154.6 |
| 20° | 1073.8 | 1060.5 | 1058.3 | 1056.8 |
| 22.5° | 1002.7 | 988.6 | 981.9 | 976.7 |
| 25° | 919.7 | 914.5 | 911.5 | 910.0 |
| 27.5° | 854.5 | 841.1 | 839.6 | 835.9 |
| 30° | 800.4 | 796.7 | 791.5 | 787.0 |
| 32.5° | 736.6 | 733.7 | 729.2 | 727.7 |
| 35° | 692.9 | 682.5 | 678.1 | 671.4 |
| 37.5° | 644.7 | 638.8 | 631.4 | 634.4 |
| 40° | 586.9 | 583.2 | 581.7 | 581.0 |
| 42.5° | 541.0 | 529.1 | 524.7 | 524.7 |
| 45° | 494.3 | 484.7 | 478.0 | 478.7 |
| 47.5° | 443.9 | 444.6 | 440.2 | 441.7 |
| 50° | 409.8 | 405.4 | 402.4 | 403.1 |
| 52.5° | 377.2 | 373.5 | 371.3 | 375.0 |
| 55° | 340.9 | 336.4 | 335.7 | 335.0 |
| 57.5° | 301.6 | 299.4 | 295.7 | 293.5 |
| 60° | 258.6 | 252.7 | 245.3 | 244.6 |
| 62.5° | 219.4 | 219.4 | 219.4 | 219.4 |
| 65° | 199.4 | 198.6 | 199.4 | 200.1 |
| 67.5° | 178.6 | 177.1 | 175.6 | 176.4 |
| 70° | 154.1 | 153.4 | 152.7 | 152.7 |
| 72.5° | 130.4 | 130.4 | 129.7 | 128.9 |
| 75° | 108.2 | 106.7 | 106.7 | 106.7 |
| 77.5° | 86.7 | 86.0 | 85.2 | 84.5 |
| 80° | 65.2 | 64.5 | 63.7 | 63.7 |
| 82.5° | 45.9 | 45.2 | 45.2 | 44.5 |
| 85° | 26.7 | 27.4 | 26.7 | 28.2 |
| 87.5° | 9.6 | 8.9 | 9.6 | 8.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)