Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P526590

Luminaire Tested: **GALN-SA1C-740-U-AFL-GRSWH**

Issue Date: 5/27/2021

Report Generated By 670246001

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Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P526590 |
| | TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28) |
| Test Lab: | INNOVATION CENTER |
| Issue Date: | 5/27/2021 |
| Manufacturer: | COOPER LIGHTING SOLUTIONS (FORMERLY EATON) |
| Product Line: | McGRAW-EDISON |
| Catalog Number: | GALN-SA1C-740-U-AFL-GRSWH |
| Description: | GALLEON AREA AND ROADWAY LUMINAIRE |
| | (1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD |
| Light Source: | - |
| Ballast/Driver: | ELECTRONIC DRIVER |

**Summary**

| | |
|---|---|
| Lumens per Lamp: | N/A |
| Luminaire Lumens: | 6419 lumens |
| Efficiency: | N/A |
| Efficacy: | 112.6 lumens/watt |
| Luminous Opening: | Rectangular (W 0.5' x L: 0.5' x H: 0') |
| IES Classification: | Type II - Short |
| BUG Rating: | B1 - U0 - G1 |

| | |
|---|---|
| Input Watts (W): | 57 |
| 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: | 24 FT |

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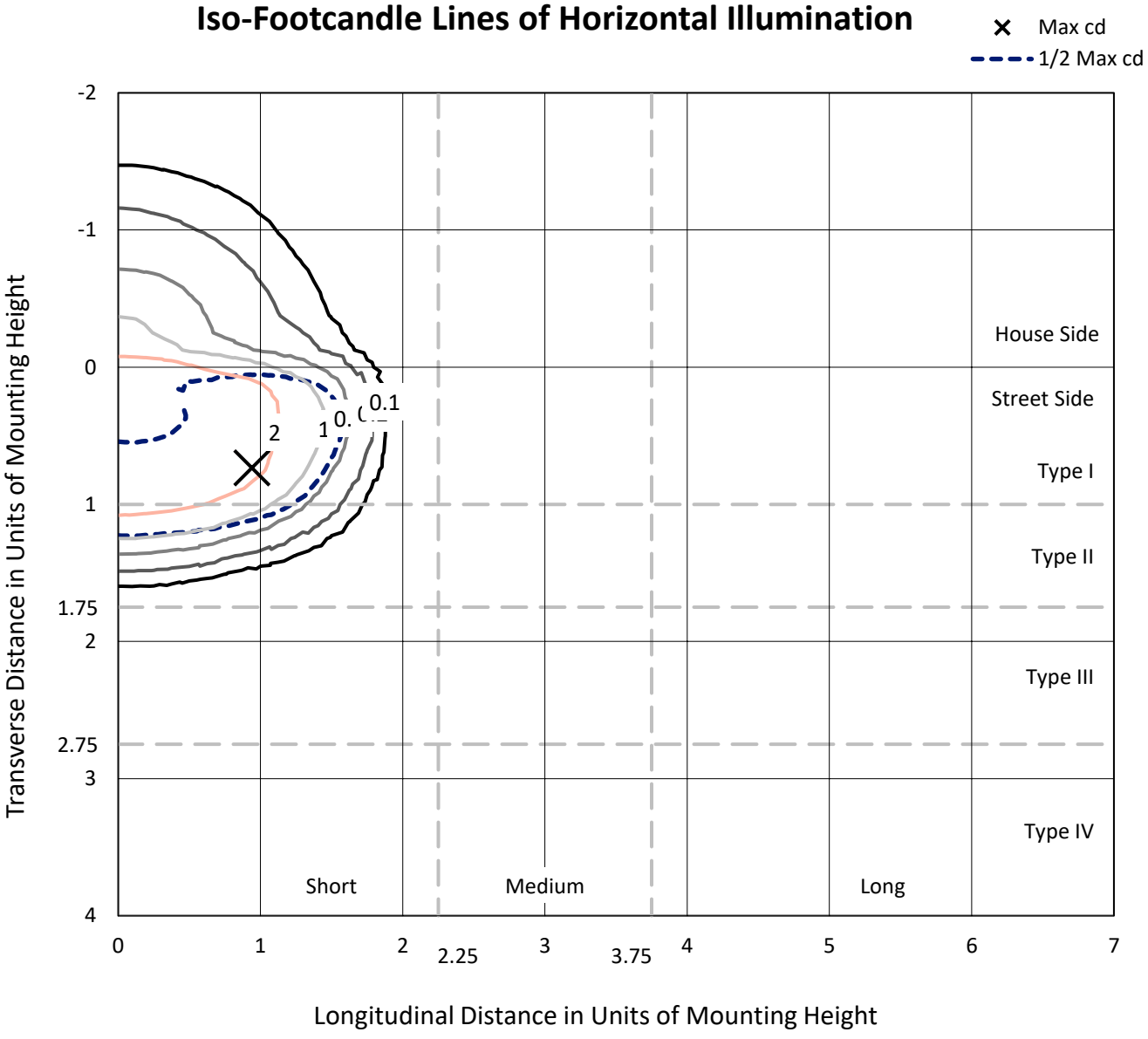
## Iso-Footcandle Lines of Horizontal Illumination




Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type II - Short - N/A

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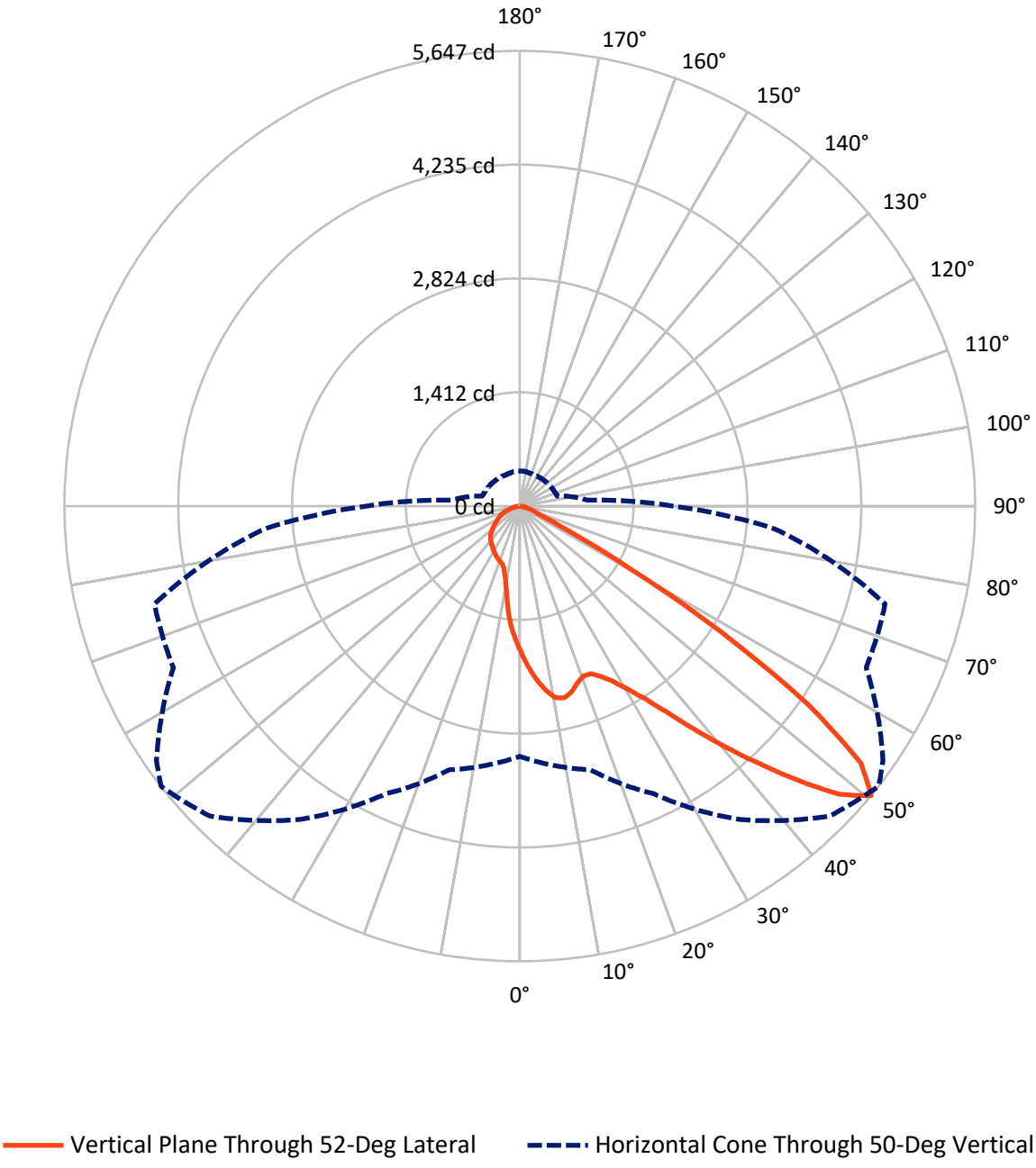
## Luminous Intensity Polar Plot



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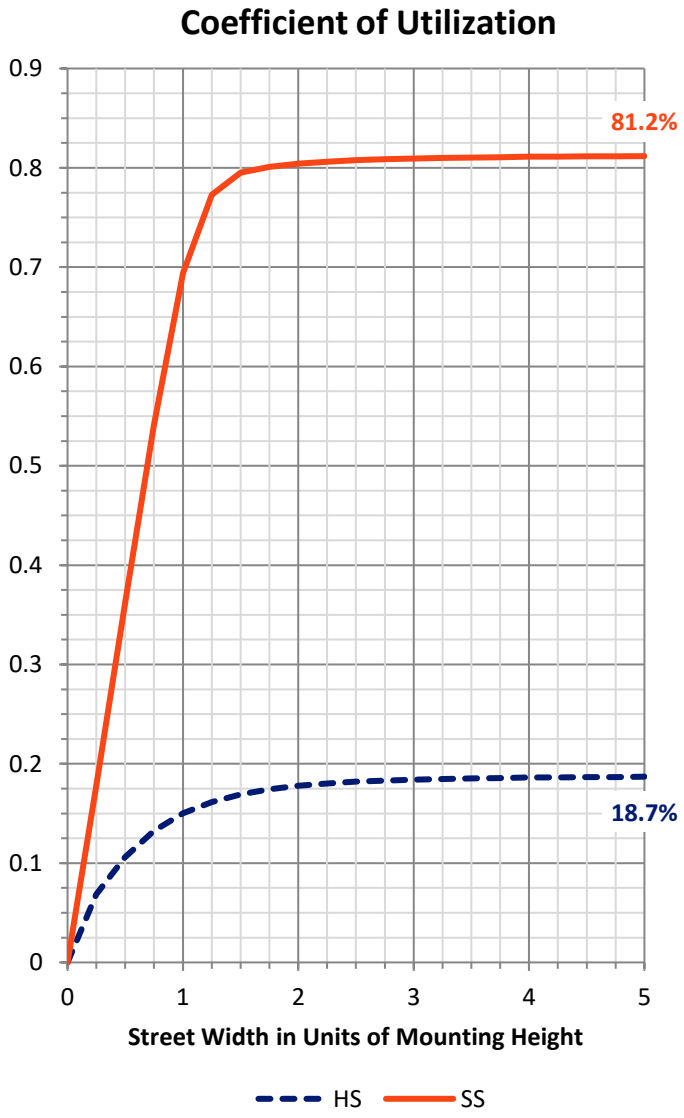
**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 1206.6 | 0.0 | 1206.6 |
| | % Fixture | 18.8 | 0.0 | 18.8 |
| **Street Side** | Lumens | 5212.4 | 0.0 | 5212.4 |
| | % Fixture | 81.2 | 0.0 | 81.2 |
| **Total** | Lumens | 6419.0 | 0.0 | 6419.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 166.8 | 2.6 |
| 10°-20° | 447.0 | 7.0 |
| 20°-30° | 752.9 | 11.7 |
| 30°-40° | 1263.5 | 19.7 |
| 40°-50° | 1932.8 | 30.1 |
| 50°-60° | 1409.2 | 22.0 |
| 60°-70° | 313.6 | 4.9 |
| 70°-80° | 113.1 | 1.8 |
| 80°-90° | 20.0 | 0.3 |
| 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° | 6419.0 | 100.0 |
| 0°-180° | 6419.0 | 100.0 |



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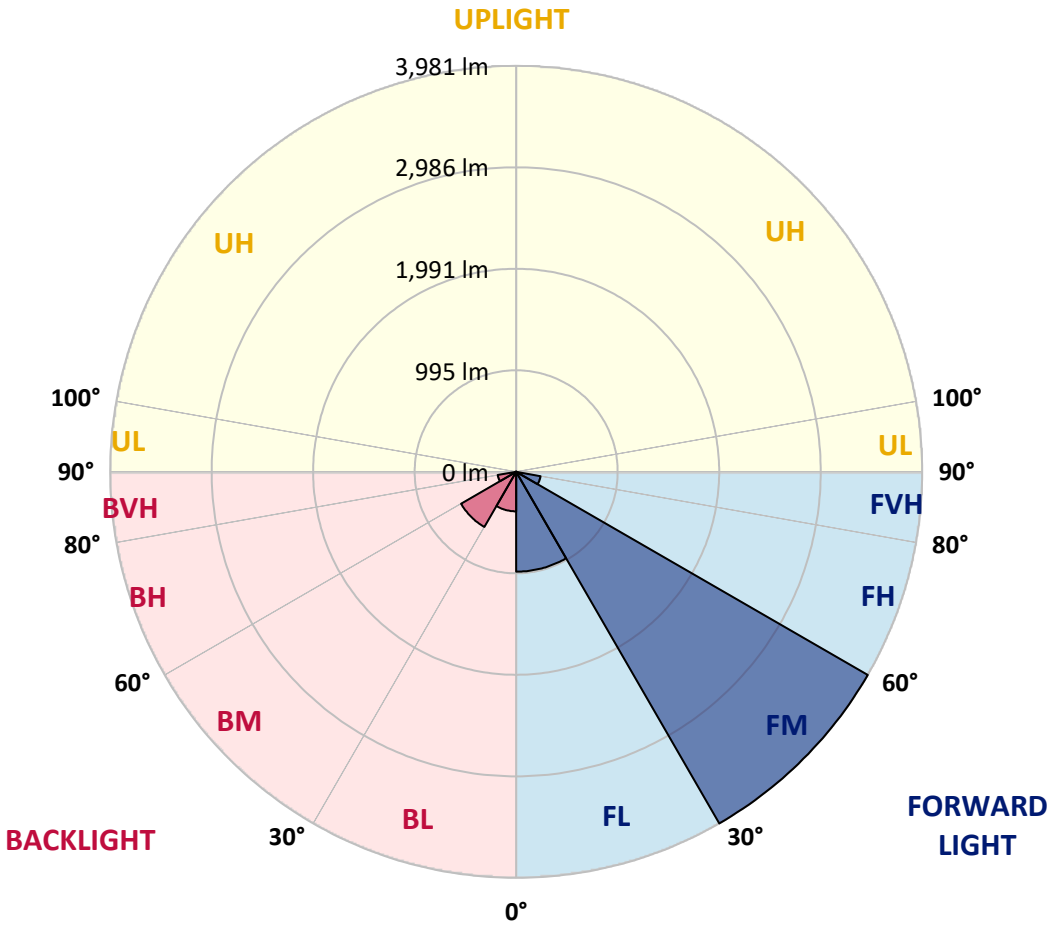
## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 979.1 | 15.3 | | | |
| FM | (30°-60°) | 3981.4 | 62.0 | | | |
| FH | (60°-80°) | 242.9 | 3.8 | | | G0/660 |
| FVH | (80°-90°) | 9.0 | 0.1 | | | G0/10 |
| BL | (0°-30°) | 387.6 | 6.0 | B1/500 | | |
| BM | (30°-60°) | 624.1 | 9.7 | B1/1000 | | |
| BH | (60°-80°) | 183.8 | 2.9 | B1/500 | | G1/500 |
| BVH | (80°-90°) | 11.0 | 0.2 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

**BUG Rating: B1-U0-G1**
Type II Short



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**CANDELA DISTRIBUTION (FULL):**

| | 0° | 5° | 15° | 25° | 35° | 45° | 52° | 55° | 65° | 75° | 85° |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0° | 1809.4 | 1809.4 | 1809.4 | 1809.4 | 1809.4 | 1809.4 | *1809.4* | 1809.4 | 1809.4 | 1809.4 | 1809.4 |
| 2.5° | 2130.4 | 2089.4 | 2094.1 | 2064.7 | 2033.0 | 2023.7 | *1991.2* | 1960.3 | 1937.1 | 1887.5 | 1841.9 |
| 5° | 2328.5 | 2316.1 | 2297.5 | 2274.3 | 2250.4 | 2191.6 | *2158.3* | 2119.6 | 2034.5 | 1957.9 | 1882.1 |
| 7.5° | 2357.1 | 2354.8 | 2364.8 | 2364.8 | 2373.4 | 2350.9 | *2303.7* | 2276.7 | 2186.1 | 2061.6 | 1920.8 |
| 10° | 2156.0 | 2162.9 | 2211.7 | 2275.1 | 2363.3 | 2424.4 | *2416.7* | 2409.7 | 2310.7 | 2140.5 | 1966.4 |
| 12.5° | 1995.8 | 1980.4 | 2009.0 | 2063.1 | 2195.4 | 2343.2 | *2443.0* | 2443.7 | 2418.2 | 2266.6 | 1999.7 |
| 15° | 1905.3 | 1916.2 | 1923.9 | 1949.4 | 2049.2 | 2220.2 | *2395.8* | 2447.6 | 2559.8 | 2355.6 | 2052.3 |
| 17.5° | 1963.4 | 1927.0 | 1925.4 | 1931.6 | 1982.7 | 2111.1 | *2308.4* | 2397.3 | 2637.1 | 2470.0 | 2117.3 |
| 20° | 2039.2 | 2038.4 | 2016.7 | 2009.0 | 2008.2 | 2122.7 | *2251.1* | 2371.8 | 2678.1 | 2618.6 | 2183.1 |
| 22.5° | 2172.2 | 2172.2 | 2136.6 | 2119.6 | 2083.3 | 2176.9 | *2258.9* | 2340.9 | 2746.2 | 2720.7 | 2214.8 |
| 25° | 2395.0 | 2358.7 | 2297.5 | 2255.8 | 2234.9 | 2268.1 | *2340.9* | 2414.4 | 2805.8 | 2829.0 | 2280.5 |
| 27.5° | 2600.8 | 2543.5 | 2513.4 | 2441.4 | 2413.6 | 2394.2 | *2460.8* | 2535.0 | 2875.4 | 2997.6 | 2316.1 |
| 30° | 2834.4 | 2824.4 | 2770.2 | 2677.4 | 2608.5 | 2572.9 | *2634.0* | 2707.5 | 3003.0 | 3170.1 | 2398.1 |
| 32.5° | 3252.1 | 3160.9 | 3087.4 | 2973.7 | 2861.5 | 2785.7 | *2846.0* | 2894.7 | 3215.0 | 3350.4 | 2487.8 |
| 35° | 3703.1 | 3673.7 | 3546.9 | 3341.9 | 3170.1 | 3102.1 | *3137.7* | 3174.0 | 3461.8 | 3625.8 | 2638.7 |
| 37.5° | 4146.4 | 4106.2 | 4001.7 | 3829.2 | 3620.4 | 3481.9 | *3507.4* | 3550.0 | 3738.7 | 3997.1 | 2822.8 |
| 40° | 4465.1 | 4415.6 | 4363.0 | 4337.5 | 4130.2 | 3940.6 | *3925.9* | 3936.8 | 4113.1 | 4345.2 | 3027.0 |
| 42.5° | 4488.3 | 4549.4 | 4565.7 | 4668.6 | 4619.8 | 4464.3 | *4373.8* | 4376.2 | 4470.5 | 4689.5 | 3233.6 |
| 45° | 4439.6 | 4383.1 | 4503.0 | 4783.8 | 4944.7 | 5017.5 | *4865.1* | 4845.7 | 4691.8 | 4889.0 | 3336.5 |
| 47.5° | 3928.3 | 3943.7 | 4146.4 | 4590.4 | 5055.4 | 5380.3 | *5344.7* | 5280.5 | 4810.1 | 4882.1 | 3320.2 |
| 50° | *3105.2* | *3198.8* | *3386.7* | *3939.9* | *4745.9* | *5437.5* | *5647.2* | *5498.6* | *4739.7* | *4690.2* | *3154.7* |
| 52.5° | 2067.8 | 2106.5 | 2230.2 | 2944.3 | 3816.1 | 4860.4 | *5299.0* | 5333.1 | 4674.8 | 4438.8 | 2945.0 |
| 55° | 920.6 | 917.5 | 1091.5 | 1537.9 | 2394.2 | 3698.5 | *4329.7* | 4537.1 | 4424.9 | 4182.8 | 2740.8 |
| 57.5° | 389.9 | 403.0 | 474.2 | 664.5 | 1177.4 | 2231.8 | *2933.4* | 3115.2 | 3403.0 | 3434.7 | 2102.6 |
| 60° | 263.8 | 265.3 | 284.7 | 332.6 | 492.8 | 1048.2 | *1538.7* | 1756.8 | 1962.6 | 1948.7 | 1115.5 |
| 62.5° | 207.3 | 212.7 | 227.4 | 246.8 | 292.4 | 475.8 | *688.5* | 809.9 | 823.1 | 692.4 | 423.1 |
| 65° | 177.2 | 177.9 | 192.6 | 208.9 | 229.0 | 276.9 | *331.9* | 338.1 | 341.9 | 329.5 | 311.0 |
| 67.5° | 146.2 | 147.8 | 159.4 | 177.9 | 196.5 | 212.0 | *227.4* | 235.2 | 253.0 | 287.8 | 283.1 |
| 70° | 116.0 | 118.4 | 128.4 | 143.9 | 160.9 | 170.2 | *189.5* | 196.5 | 212.7 | 239.8 | 250.6 |
| 72.5° | 88.2 | 89.0 | 97.5 | 108.3 | 123.8 | 133.1 | *149.3* | 157.0 | 167.9 | 191.1 | 201.1 |
| 75° | 63.4 | 65.8 | 71.9 | 77.4 | 79.7 | 85.9 | *101.3* | 109.8 | 125.3 | 135.4 | 136.2 |
| 77.5° | 33.3 | 34.8 | 36.4 | 36.4 | 44.1 | 55.7 | *65.8* | 70.4 | 81.2 | 89.0 | 85.1 |
| 80° | 13.2 | 13.9 | 17.8 | 24.0 | 30.9 | 40.2 | *47.2* | 49.5 | 58.8 | 63.4 | 65.8 |
| 82.5° | 7.7 | 8.5 | 11.6 | 17.0 | 22.4 | 28.6 | *34.0* | 36.4 | 42.5 | 48.0 | 49.5 |
| 85° | 3.9 | 4.6 | 7.0 | 10.8 | 14.7 | 17.8 | *17.0* | 16.2 | 16.2 | 15.5 | 16.2 |
| 87.5° | 1.5 | 1.5 | 2.3 | 2.3 | 2.3 | 3.1 | *3.9* | 3.9 | 3.9 | 4.6 | 4.6 |
| 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° | 1809.4 | 1809.4 | 1809.4 | 1809.4 | 1809.4 | 1809.4 | 1809.4 | 1809.4 | 1809.4 | 1809.4 | 1809.4 |
| 2.5° | 1811.7 | 1780.8 | 1752.2 | 1699.6 | 1642.3 | 1626.1 | 1559.5 | 1535.6 | 1518.5 | 1498.4 | 1492.2 |
| 5° | 1821.0 | 1780.0 | 1688.0 | 1582.0 | 1497.7 | 1389.4 | 1318.2 | 1241.6 | 1185.9 | 1172.0 | 1168.1 |
| 7.5° | 1840.4 | 1770.0 | 1611.4 | 1451.2 | 1278.7 | 1131.8 | 1019.6 | 959.2 | 905.9 | 902.8 | 897.4 |
| 10° | 1862.0 | 1739.8 | 1527.8 | 1276.4 | 1055.9 | 919.8 | 852.5 | 826.2 | 813.0 | 809.9 | 808.4 |
| 12.5° | 1879.8 | 1733.6 | 1434.2 | 1106.2 | 898.1 | 816.1 | 796.0 | 793.7 | 799.1 | 800.7 | 803.8 |
| 15° | 1887.5 | 1708.8 | 1321.3 | 953.8 | 799.9 | 769.7 | 778.2 | 787.5 | 791.4 | 801.4 | 793.7 |
| 17.5° | 1902.2 | 1677.1 | 1182.0 | 833.1 | 745.0 | 750.4 | 765.1 | 775.9 | 782.1 | 789.1 | 779.0 |
| 20° | 1910.0 | 1648.5 | 1051.3 | 761.2 | 725.6 | 735.7 | 755.8 | 764.3 | 772.0 | 775.1 | 763.5 |
| 22.5° | 1903.0 | 1589.7 | 936.0 | 703.2 | 707.1 | 720.2 | 738.0 | 747.3 | 742.6 | 730.3 | 723.3 |
| 25° | 1884.4 | 1506.9 | 816.1 | 666.1 | 680.8 | 704.0 | 717.9 | 710.9 | 702.4 | 695.5 | 693.1 |
| 27.5° | 1883.7 | 1405.6 | 729.5 | 632.0 | 658.3 | 690.0 | 685.4 | 679.2 | 683.1 | 677.7 | 671.5 |
| 30° | 1887.5 | 1307.4 | 658.3 | 612.7 | 642.1 | 657.5 | 663.0 | 656.8 | 661.4 | 651.4 | 654.5 |
| 32.5° | 1867.4 | 1211.4 | 611.9 | 590.2 | 622.7 | 622.0 | 639.8 | 644.4 | 633.6 | 612.7 | 615.8 |
| 35° | 1875.9 | 1134.1 | 572.5 | 580.2 | 601.1 | 601.1 | 615.0 | 609.6 | 581.0 | 568.6 | 571.7 |
| 37.5° | 1934.7 | 1058.3 | 553.1 | 566.3 | 580.2 | 586.4 | 581.7 | 558.5 | 551.6 | 551.6 | 553.1 |
| 40° | 1990.4 | 993.3 | 541.5 | 563.2 | 560.8 | 564.7 | 530.7 | 533.0 | 533.0 | 533.8 | 529.9 |
| 42.5° | 2039.9 | 949.2 | 532.2 | 544.6 | 548.5 | 528.4 | 507.5 | 505.1 | 510.6 | 509.8 | 506.7 |
| 45° | 2057.7 | 912.8 | 519.1 | 523.7 | 526.8 | 493.5 | 483.5 | 478.8 | 485.0 | 487.4 | 490.5 |
| 47.5° | 1989.7 | 882.7 | 504.4 | 495.1 | 488.9 | 467.2 | 454.1 | 445.6 | 453.3 | 466.5 | 469.6 |
| 50° | *1902.2* | *843.2* | *481.2* | *463.4* | *450.2* | *440.9* | *431.7* | *423.1* | *428.6* | *437.8* | *435.5* |
| 52.5° | 1773.1 | 781.3 | 451.8 | 433.2 | 410.8 | 413.1 | 404.6 | 399.9 | 403.0 | 403.0 | 400.7 |
| 55° | 1588.9 | 642.1 | 402.3 | 389.1 | 370.5 | 376.7 | 378.3 | 372.1 | 365.9 | 371.3 | 366.7 |
| 57.5° | 1084.6 | 453.3 | 358.9 | 358.9 | 340.4 | 348.9 | 348.1 | 333.4 | 318.7 | 320.3 | 317.2 |
| 60° | 627.4 | 361.3 | 331.1 | 328.0 | 308.7 | 315.6 | 317.2 | 307.1 | 284.7 | 286.2 | 283.1 |
| 62.5° | 356.6 | 308.7 | 289.3 | 284.7 | 280.8 | 287.0 | 287.0 | 273.8 | 254.5 | 256.1 | 253.0 |
| 65° | 303.2 | 286.2 | 258.4 | 257.6 | 256.1 | 257.6 | 251.4 | 237.5 | 220.5 | 213.5 | 214.3 |
| 67.5° | 275.4 | 264.6 | 237.5 | 230.5 | 225.9 | 225.1 | 213.5 | 200.4 | 192.6 | 186.4 | 185.7 |
| 70° | 241.4 | 232.8 | 212.7 | 203.5 | 198.8 | 188.0 | 176.4 | 167.9 | 157.0 | 153.9 | 157.0 |
| 72.5° | 191.1 | 190.3 | 182.6 | 172.5 | 162.5 | 153.9 | 143.9 | 132.3 | 122.2 | 119.9 | 114.5 |
| 75° | 132.3 | 133.8 | 135.4 | 133.8 | 125.3 | 114.5 | 102.9 | 93.6 | 81.2 | 74.3 | 72.7 |
| 77.5° | 86.6 | 89.0 | 91.3 | 88.2 | 82.8 | 72.7 | 65.0 | 53.4 | 44.1 | 38.7 | 37.9 |
| 80° | 63.4 | 66.5 | 68.1 | 65.8 | 59.6 | 51.8 | 43.3 | 34.0 | 27.1 | 22.4 | 22.4 |
| 82.5° | 48.7 | 51.8 | 53.4 | 49.5 | 43.3 | 37.1 | 30.9 | 24.0 | 18.6 | 14.7 | 13.9 |
| 85° | 17.0 | 16.2 | 19.3 | 20.1 | 24.0 | 22.4 | 18.6 | 13.9 | 10.8 | 7.7 | 7.0 |
| 87.5° | 4.6 | 4.6 | 5.4 | 5.4 | 4.6 | 3.9 | 3.9 | 3.9 | 3.1 | 2.3 | 2.3 |
| 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)