

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: P946980

Luminaire Tested: **GALN-SB2C-722-U-SL3**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P946980  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2C-722-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 12092 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 100.9  
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

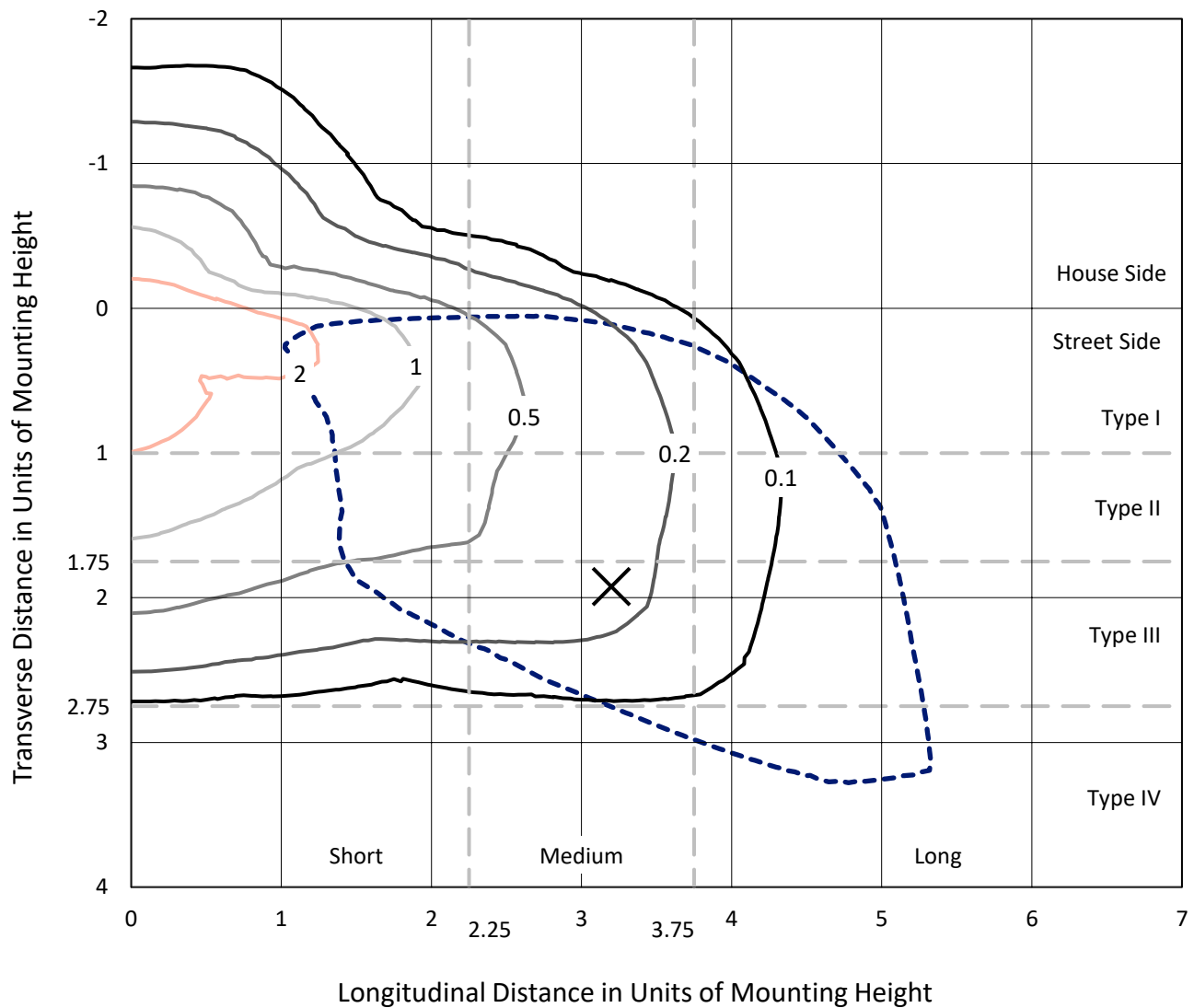


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

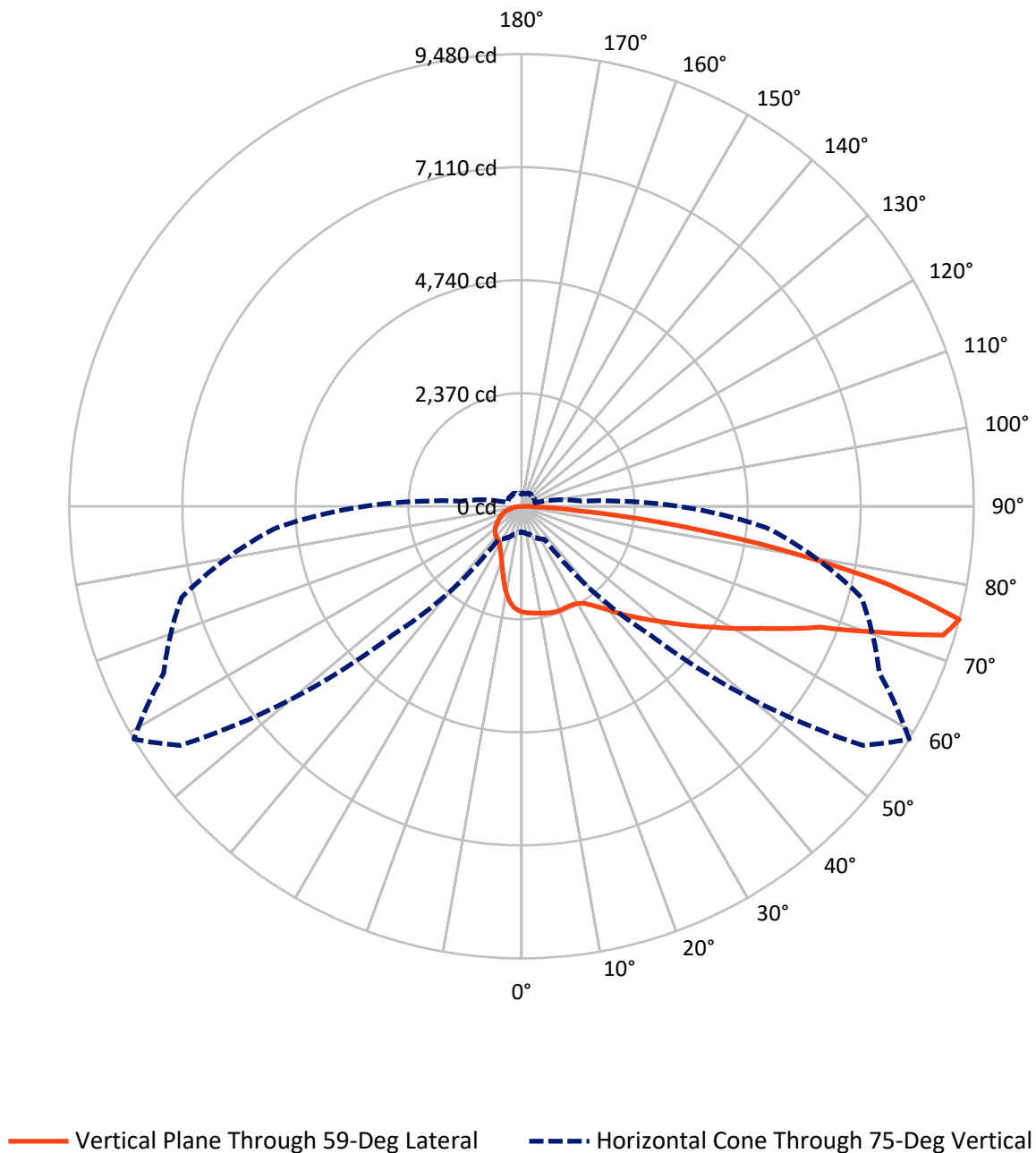


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
Type IV - Medium - N/A

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## Luminous Intensity Polar Plot



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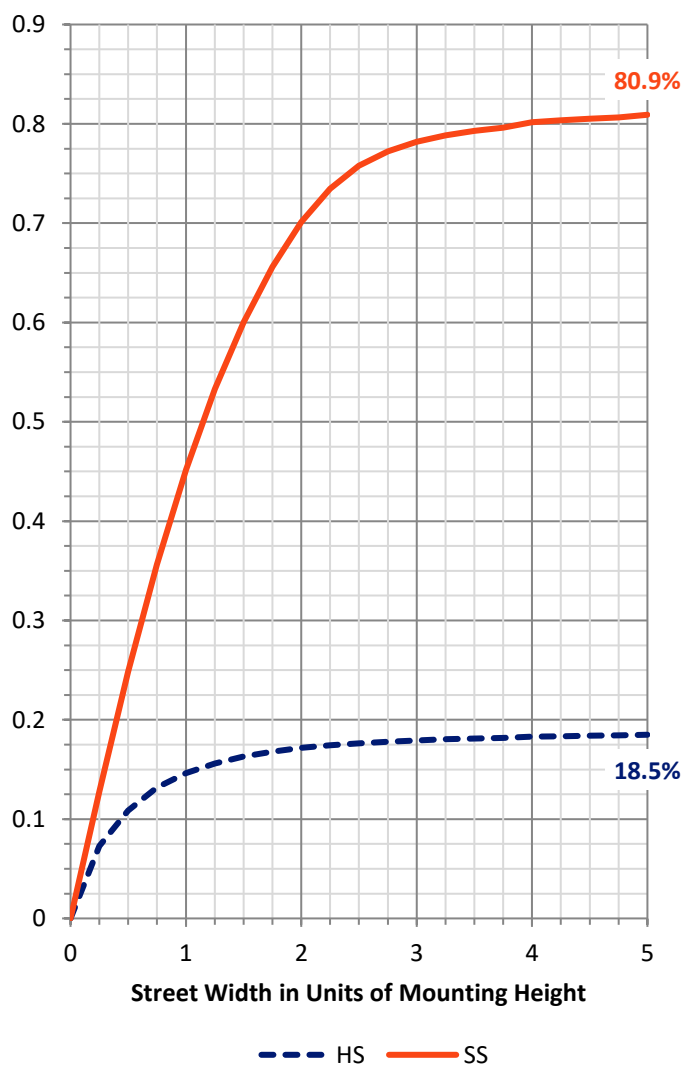
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2267.9   | 0.0    | 2267.9  |
|                    | % Fixture | 18.8     | 0.0    | 18.8    |
| <b>Street Side</b> | Lumens    | 9824.1   | 0.0    | 9824.1  |
|                    | % Fixture | 81.2     | 0.0    | 81.2    |
| <b>Total</b>       | Lumens    | 12092.0  | 0.0    | 12092.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 199.0   | 1.6       |
| 10°-20°   | 508.7   | 4.2       |
| 20°-30°   | 772.7   | 6.4       |
| 30°-40°   | 1148.5  | 9.5       |
| 40°-50°   | 1708.1  | 14.1      |
| 50°-60°   | 2318.5  | 19.2      |
| 60°-70°   | 2830.5  | 23.4      |
| 70°-80°   | 2221.3  | 18.4      |
| 80°-90°   | 384.8   | 3.2       |
| 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°    | 12092.0 | 100.0     |
| 0°-180°   | 12092.0 | 100.0     |

**Coefficient of Utilization**



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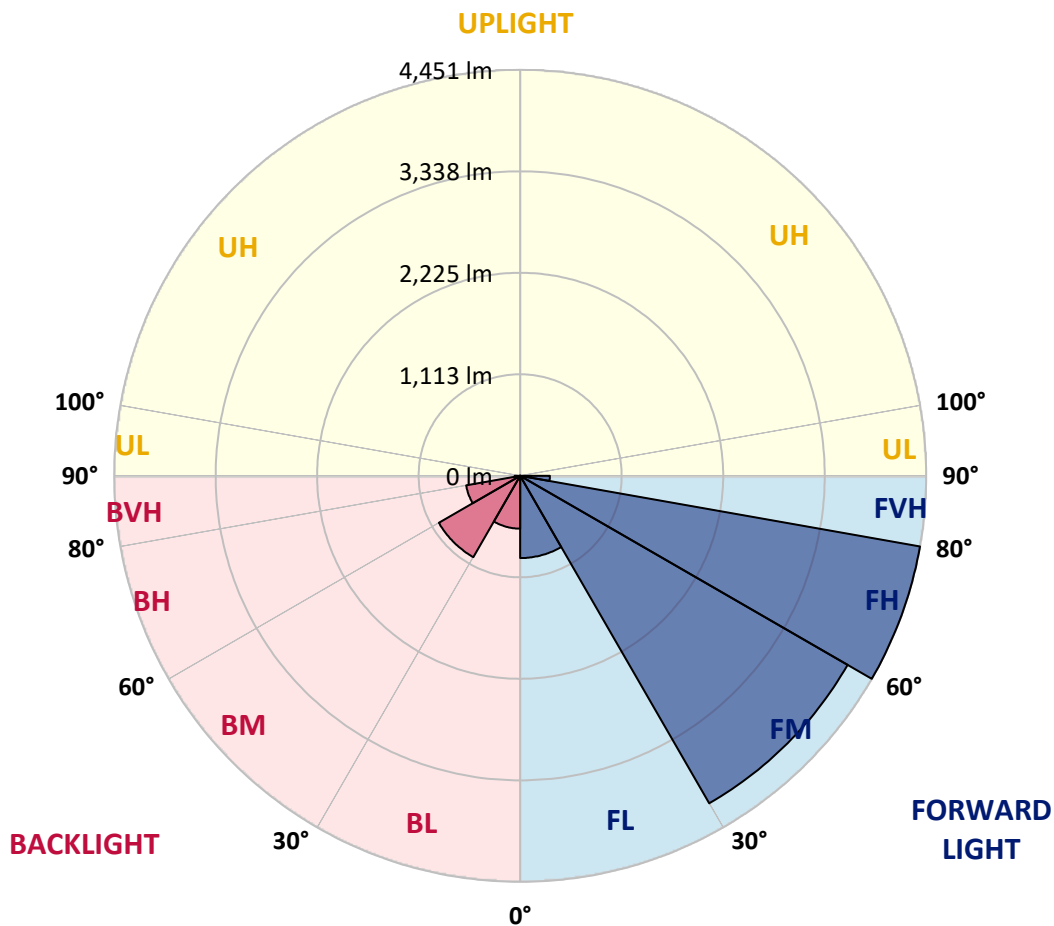
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 901.6  | 7.5       |                         |      |         |
| FM   | (30°-60°)   | 4145.6 | 34.3      |                         |      |         |
| FH   | (60°-80°)   | 4450.9 | 36.8      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 325.9  | 2.7       |                         |      | G3/500  |
| BL   | (0°-30°)    | 578.8  | 4.8       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 1029.4 | 8.5       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 600.9  | 5.0       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 58.9   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 59°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2219.5 | 2219.5 | 2219.5 | 2219.5 | 2219.5 | 2219.5 | 2219.5 | 2219.5 | 2219.5 | 2219.5 | 2219.5 |
| 2.5°  | 2238.3 | 2230.5 | 2238.3 | 2235.1 | 2233.8 | 2231.2 | 2231.8 | 2236.4 | 2233.8 | 2237.0 | 2226.0 |
| 5°    | 2223.4 | 2218.8 | 2226.6 | 2224.7 | 2233.1 | 2234.4 | 2242.9 | 2248.1 | 2251.3 | 2252.0 | 2243.5 |
| 7.5°  | 2198.6 | 2194.1 | 2205.1 | 2214.3 | 2232.5 | 2237.7 | 2255.2 | 2263.7 | 2268.2 | 2276.1 | 2263.7 |
| 10°   | 2108.2 | 2106.3 | 2133.6 | 2168.1 | 2211.0 | 2237.7 | 2264.3 | 2278.7 | 2285.8 | 2306.6 | 2292.3 |
| 12.5° | 1948.2 | 1950.8 | 1986.6 | 2052.9 | 2138.8 | 2224.7 | 2274.8 | 2295.6 | 2306.6 | 2332.6 | 2326.1 |
| 15°   | 1795.3 | 1794.7 | 1833.7 | 1904.6 | 2025.0 | 2167.4 | 2280.0 | 2315.7 | 2334.6 | 2373.0 | 2367.8 |
| 17.5° | 1706.9 | 1704.3 | 1731.6 | 1785.6 | 1897.5 | 2079.6 | 2266.9 | 2326.8 | 2367.1 | 2415.3 | 2410.7 |
| 20°   | 1690.6 | 1685.4 | 1699.7 | 1726.4 | 1805.8 | 1983.3 | 2233.1 | 2326.8 | 2393.1 | 2455.6 | 2453.0 |
| 22.5° | 1749.8 | 1741.4 | 1735.5 | 1732.2 | 1767.4 | 1904.0 | 2194.7 | 2319.0 | 2431.5 | 2513.5 | 2508.9 |
| 25°   | 1868.8 | 1855.8 | 1825.9 | 1796.6 | 1786.2 | 1868.2 | 2160.9 | 2317.0 | 2488.8 | 2591.5 | 2574.6 |
| 27.5° | 2061.4 | 2045.1 | 1984.6 | 1914.4 | 1851.3 | 1886.4 | 2146.0 | 2328.7 | 2551.9 | 2674.1 | 2640.3 |
| 30°   | 2300.1 | 2282.6 | 2206.4 | 2098.5 | 1985.3 | 1954.1 | 2164.8 | 2363.2 | 2632.5 | 2784.1 | 2717.7 |
| 32.5° | 2514.1 | 2494.6 | 2429.6 | 2319.6 | 2166.8 | 2071.1 | 2224.7 | 2428.9 | 2759.4 | 2936.9 | 2834.2 |
| 35°   | 2704.1 | 2681.3 | 2622.8 | 2521.3 | 2389.2 | 2235.7 | 2332.6 | 2545.4 | 2939.5 | 3185.4 | 2992.2 |
| 37.5° | 2890.1 | 2863.4 | 2799.7 | 2692.4 | 2600.0 | 2454.9 | 2481.6 | 2695.0 | 3178.9 | 3487.3 | 3201.7 |
| 40°   | 3098.3 | 3059.9 | 2982.5 | 2876.5 | 2786.7 | 2711.9 | 2677.4 | 2878.4 | 3422.2 | 3824.2 | 3463.2 |
| 42.5° | 3299.9 | 3263.5 | 3171.1 | 3080.7 | 2968.2 | 2946.7 | 2904.4 | 3093.1 | 3688.3 | 4194.3 | 3728.6 |
| 45°   | 3517.2 | 3473.6 | 3361.7 | 3247.2 | 3176.3 | 3102.8 | 3124.3 | 3307.7 | 3949.1 | 4571.6 | 4007.0 |
| 47.5° | 3720.8 | 3672.0 | 3539.9 | 3412.5 | 3373.4 | 3234.2 | 3325.9 | 3543.8 | 4220.4 | 4954.1 | 4282.8 |
| 50°   | 3830.7 | 3782.6 | 3672.6 | 3557.5 | 3526.9 | 3396.2 | 3544.5 | 3803.4 | 4504.6 | 5335.3 | 4547.6 |
| 52.5° | 3922.4 | 3870.4 | 3726.6 | 3662.9 | 3653.8 | 3572.5 | 3813.8 | 4100.0 | 4788.9 | 5672.2 | 4803.2 |
| 55°   | 4020.0 | 3962.1 | 3778.7 | 3721.4 | 3763.1 | 3770.2 | 4133.2 | 4436.3 | 5089.4 | 6000.7 | 5044.5 |
| 57.5° | 4132.5 | 4059.0 | 3828.8 | 3770.9 | 3869.7 | 4001.8 | 4500.1 | 4785.0 | 5384.7 | 6305.2 | 5259.2 |
| 60°   | 4238.6 | 4164.4 | 3925.0 | 3849.6 | 3984.9 | 4270.4 | 4920.9 | 5207.1 | 5719.1 | 6576.4 | 5462.1 |
| 62.5° | 4259.4 | 4198.2 | 4001.8 | 4001.1 | 4141.0 | 4584.0 | 5419.2 | 5633.2 | 6011.1 | 6844.4 | 5644.3 |
| 65°   | 3899.0 | 3860.6 | 3744.2 | 3995.3 | 4364.8 | 5035.4 | 5974.1 | 6178.3 | 6382.6 | 7078.6 | 5804.3 |
| 67.5° | 2967.5 | 2972.7 | 2964.3 | 3448.9 | 4183.9 | 5684.0 | 6777.4 | 6761.8 | 6841.2 | 7341.4 | 5988.4 |
| 70°   | 1356.9 | 1387.5 | 1586.5 | 2380.8 | 3352.0 | 5758.8 | 8105.7 | 7903.4 | 7416.8 | 7681.6 | 6147.7 |
| 72.5° | 733.1  | 756.5  | 837.8  | 1153.3 | 2015.2 | 5120.0 | 9098.4 | 9242.1 | 8182.5 | 7910.6 | 5972.8 |
| 75°   | 538.0  | 551.0  | 607.6  | 733.1  | 846.3  | 3805.3 | 8742.5 | 9480.2 | 8278.1 | 7376.5 | 5157.7 |
| 77.5° | 402.7  | 408.5  | 454.7  | 580.9  | 433.2  | 2006.1 | 6985.6 | 7851.4 | 7086.4 | 6060.6 | 3809.9 |
| 80°   | 292.1  | 298.6  | 333.0  | 435.8  | 303.8  | 733.7  | 4796.7 | 5510.9 | 4853.3 | 3863.2 | 1898.8 |
| 82.5° | 201.7  | 204.3  | 219.2  | 296.6  | 212.1  | 284.9  | 2721.6 | 3231.6 | 2709.3 | 1355.6 | 512.6  |
| 85°   | 121.6  | 124.9  | 131.4  | 173.0  | 120.3  | 135.3  | 1174.8 | 1215.1 | 809.9  | 323.9  | 159.4  |
| 87.5° | 50.1   | 53.3   | 58.5   | 72.9   | 47.5   | 37.7   | 193.8  | 243.3  | 151.6  | 95.0   | 49.4   |
| 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°    | 2219.5 | 2219.5 | 2219.5 | 2219.5 | 2219.5 | 2219.5 | 2219.5 | 2219.5 | 2219.5 | 2219.5 | 2219.5 |
| 2.5°  | 2222.7 | 2218.2 | 2205.8 | 2188.9 | 2173.3 | 2153.8 | 2145.3 | 2138.1 | 2131.6 | 2119.3 | 2113.4 |
| 5°    | 2236.4 | 2224.0 | 2190.8 | 2147.9 | 2099.1 | 2045.8 | 1993.7 | 1958.0 | 1927.4 | 1904.6 | 1885.8 |
| 7.5°  | 2257.2 | 2233.8 | 2173.3 | 2085.5 | 1973.6 | 1859.1 | 1755.7 | 1682.2 | 1626.9 | 1606.7 | 1571.6 |
| 10°   | 2278.7 | 2250.7 | 2145.3 | 1990.5 | 1797.3 | 1621.0 | 1483.8 | 1408.3 | 1364.1 | 1349.8 | 1327.6 |
| 12.5° | 2304.0 | 2263.0 | 2101.7 | 1858.4 | 1600.2 | 1407.0 | 1287.3 | 1243.1 | 1220.3 | 1212.5 | 1214.5 |
| 15°   | 2341.1 | 2273.5 | 2036.0 | 1693.2 | 1412.2 | 1250.9 | 1173.5 | 1142.9 | 1131.2 | 1130.5 | 1133.1 |
| 17.5° | 2369.1 | 2275.4 | 1933.9 | 1516.3 | 1267.8 | 1156.6 | 1092.8 | 1081.1 | 1088.9 | 1100.6 | 1105.2 |
| 20°   | 2400.3 | 2257.8 | 1799.9 | 1355.0 | 1166.3 | 1074.0 | 1047.3 | 1055.1 | 1074.0 | 1090.9 | 1096.7 |
| 22.5° | 2422.4 | 2226.0 | 1637.9 | 1229.4 | 1078.5 | 1026.5 | 1025.2 | 1041.4 | 1051.8 | 1060.3 | 1064.8 |
| 25°   | 2441.9 | 2172.0 | 1466.2 | 1124.0 | 1006.3 | 997.8  | 1012.2 | 1007.0 | 999.8  | 1007.0 | 1011.5 |
| 27.5° | 2456.2 | 2086.8 | 1312.7 | 1031.7 | 955.6  | 978.3  | 969.9  | 958.2  | 957.5  | 961.4  | 967.9  |
| 30°   | 2451.7 | 1972.9 | 1186.5 | 943.9  | 919.8  | 941.9  | 921.7  | 919.8  | 917.8  | 919.8  | 926.9  |
| 32.5° | 2451.7 | 1843.5 | 1089.6 | 883.4  | 897.0  | 888.6  | 886.6  | 882.1  | 874.3  | 873.6  | 882.1  |
| 35°   | 2465.3 | 1714.0 | 1006.3 | 850.8  | 878.2  | 858.0  | 859.3  | 848.2  | 832.0  | 824.2  | 832.0  |
| 37.5° | 2493.3 | 1610.0 | 923.7  | 835.2  | 845.0  | 844.3  | 839.1  | 820.3  | 791.6  | 766.9  | 775.4  |
| 40°   | 2561.0 | 1579.4 | 867.1  | 828.1  | 829.4  | 837.2  | 823.5  | 787.1  | 722.0  | 681.7  | 686.9  |
| 42.5° | 2667.0 | 1630.8 | 854.7  | 810.5  | 819.0  | 826.8  | 800.1  | 715.5  | 669.4  | 645.3  | 645.3  |
| 45°   | 2801.6 | 1720.5 | 881.4  | 785.1  | 794.2  | 807.9  | 728.5  | 688.2  | 667.4  | 668.0  | 671.3  |
| 47.5° | 2972.1 | 1814.9 | 930.8  | 763.0  | 758.5  | 766.3  | 681.1  | 656.3  | 627.7  | 634.9  | 653.1  |
| 50°   | 3169.2 | 1910.5 | 977.7  | 733.1  | 718.8  | 693.4  | 650.5  | 627.1  | 590.6  | 573.7  | 578.3  |
| 52.5° | 3382.5 | 2002.8 | 996.5  | 696.7  | 675.9  | 646.6  | 629.7  | 601.0  | 556.8  | 528.8  | 528.2  |
| 55°   | 3584.8 | 2086.8 | 975.7  | 653.1  | 632.9  | 610.2  | 607.6  | 590.0  | 542.5  | 503.5  | 503.5  |
| 57.5° | 3776.1 | 2157.0 | 923.7  | 608.9  | 589.3  | 575.7  | 593.2  | 584.8  | 524.9  | 474.9  | 472.3  |
| 60°   | 3938.0 | 2205.1 | 848.2  | 564.0  | 550.3  | 543.2  | 569.8  | 567.2  | 500.2  | 444.3  | 442.3  |
| 62.5° | 4066.8 | 2224.0 | 765.0  | 521.0  | 517.8  | 504.8  | 537.3  | 537.3  | 469.0  | 414.4  | 412.4  |
| 65°   | 4167.7 | 2205.8 | 680.4  | 478.8  | 485.3  | 465.7  | 497.6  | 493.7  | 435.8  | 387.7  | 385.1  |
| 67.5° | 4256.8 | 2146.0 | 586.7  | 437.1  | 452.1  | 427.4  | 456.0  | 446.9  | 399.4  | 361.0  | 358.4  |
| 70°   | 4296.5 | 2006.8 | 480.1  | 395.5  | 413.7  | 389.6  | 414.4  | 397.4  | 358.4  | 332.4  | 327.2  |
| 72.5° | 3977.7 | 1667.8 | 377.9  | 351.9  | 367.5  | 348.0  | 369.5  | 350.0  | 314.2  | 302.5  | 292.7  |
| 75°   | 3290.8 | 1251.5 | 290.8  | 304.4  | 316.1  | 301.2  | 315.5  | 301.2  | 268.7  | 277.1  | 253.0  |
| 77.5° | 2389.9 | 845.0  | 222.5  | 254.3  | 259.5  | 251.7  | 264.1  | 247.8  | 218.6  | 216.6  | 206.9  |
| 80°   | 1188.4 | 495.0  | 174.3  | 201.0  | 199.0  | 193.8  | 208.2  | 200.3  | 175.6  | 186.0  | 184.1  |
| 82.5° | 344.1  | 212.1  | 126.8  | 141.2  | 137.3  | 138.6  | 149.0  | 152.9  | 229.0  | 227.0  | 232.2  |
| 85°   | 108.0  | 83.3   | 76.1   | 78.7   | 74.8   | 76.8   | 87.8   | 174.3  | 161.3  | 94.3   | 102.1  |
| 87.5° | 28.0   | 28.6   | 18.9   | 20.2   | 20.8   | 24.7   | 28.0   | 106.0  | 50.7   | 33.2   | 35.1   |
| 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)