

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: P945592

Luminaire Tested: **GALN-SB1C-730-U-SL2**

Issue Date: 1/21/2025

### Test Information

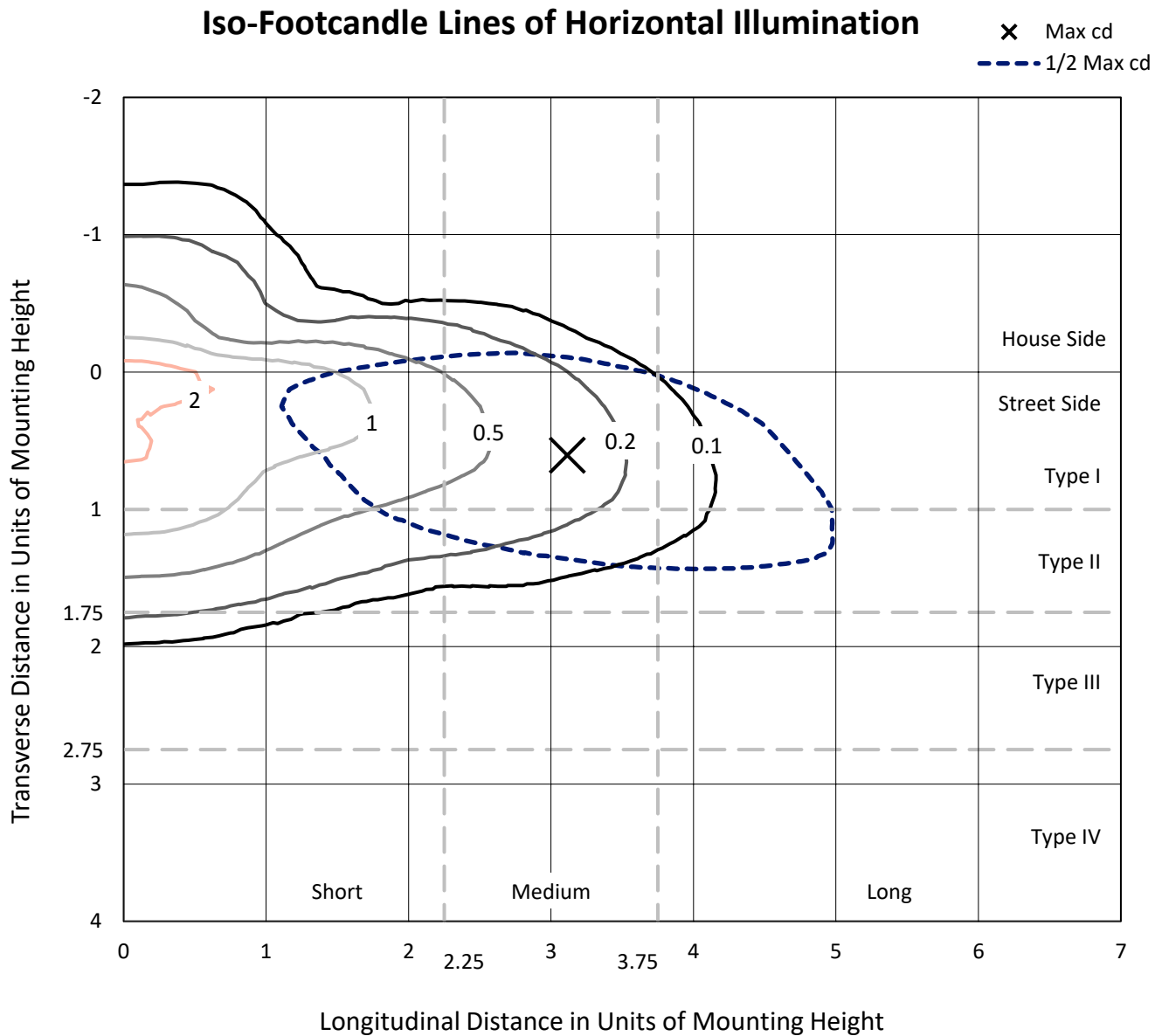
Test Method: LM-79-08  
Report Number: P945592  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1C-730-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 7446 lumens  
Efficiency: N/A  
Efficacy: 136.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 54.4  
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



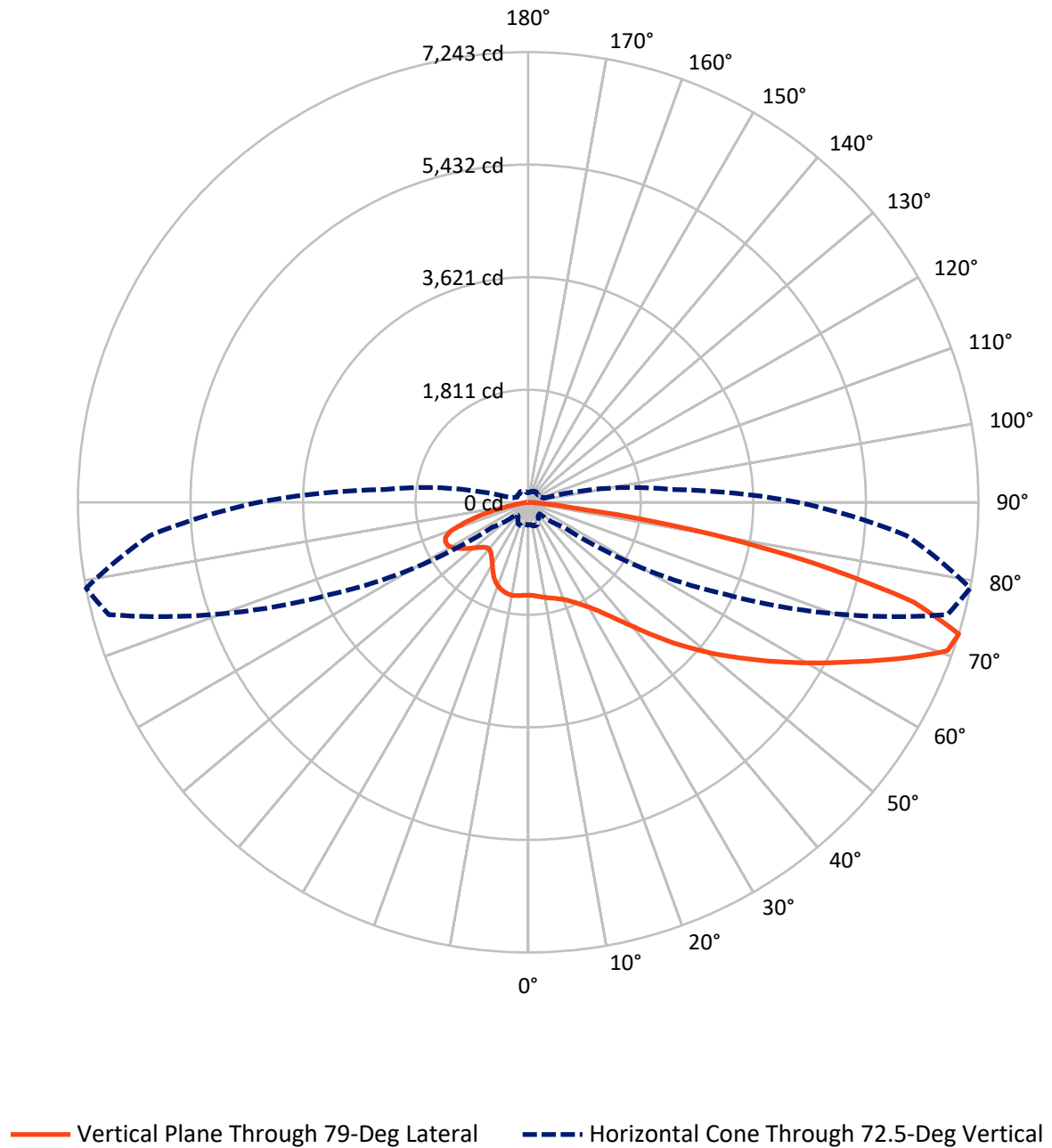
REPORT NUMBER: P945592  
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Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
Type II - Medium - N/A

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## Luminous Intensity Polar Plot



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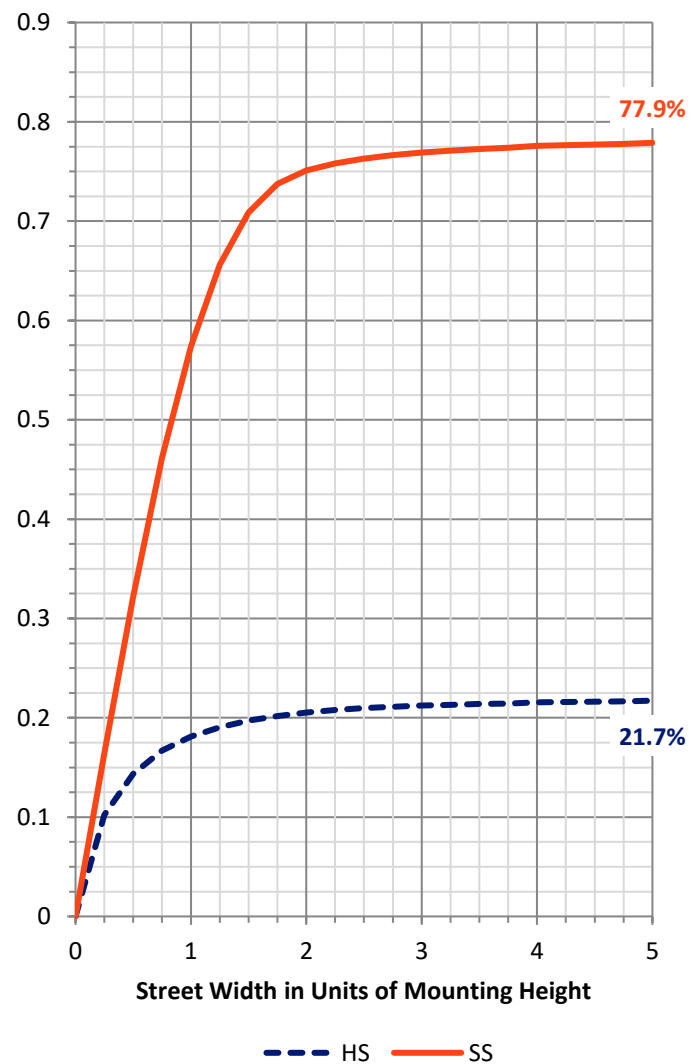
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1638.5   | 0.0    | 1638.5 |
|                    | % Fixture | 22.0     | 0.0    | 22.0   |
| <b>Street Side</b> | Lumens    | 5807.5   | 0.0    | 5807.5 |
|                    | % Fixture | 78.0     | 0.0    | 78.0   |
| <b>Total</b>       | Lumens    | 7446.0   | 0.0    | 7446.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 135.7  | 1.8       |
| 10°-20°   | 354.7  | 4.8       |
| 20°-30°   | 572.4  | 7.7       |
| 30°-40°   | 859.1  | 11.5      |
| 40°-50°   | 1218.6 | 16.4      |
| 50°-60°   | 1539.0 | 20.7      |
| 60°-70°   | 1563.0 | 21.0      |
| 70°-80°   | 1065.3 | 14.3      |
| 80°-90°   | 138.2  | 1.9       |
| 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°    | 7446.0 | 100.0     |
| 0°-180°   | 7446.0 | 100.0     |

**Coefficient of Utilization**



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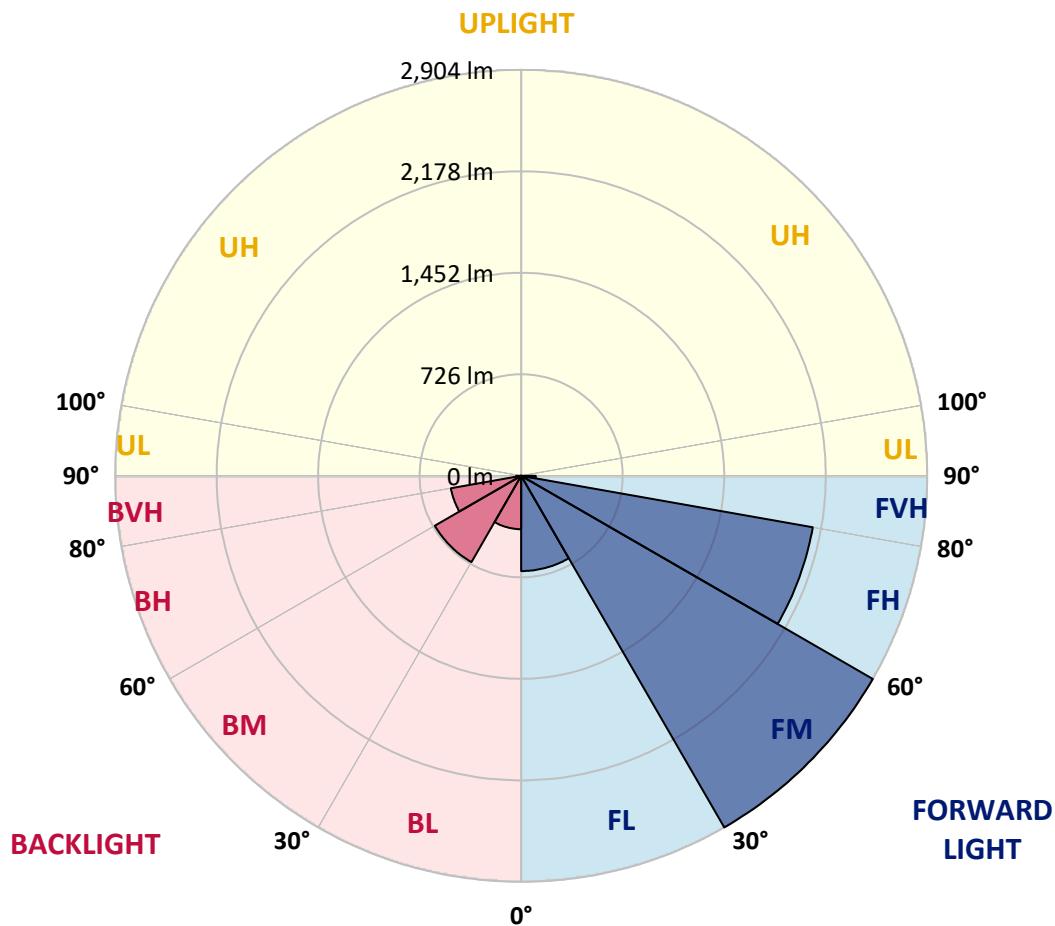
CATALOG NUMBER: GALN-SB1C-730-U-SL2

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 681.1  | 9.1       |                         |      |         |
| FM   | (30°-60°)   | 2904.1 | 39.0      |                         |      |         |
| FH   | (60°-80°)   | 2118.1 | 28.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 104.1  | 1.4       |                         |      | G2/225  |
| BL   | (0°-30°)    | 381.7  | 5.1       | B1/500                  |      |         |
| BM   | (30°-60°)   | 712.6  | 9.6       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 510.2  | 6.9       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 34.1   | 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-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 79°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1494.7 | 1494.7 | 1494.7 | 1494.7 | 1494.7 | 1494.7 | 1494.7 | 1494.7 | 1494.7 | 1494.7 | 1494.7 |
| 2.5°  | 1495.5 | 1488.4 | 1492.7 | 1491.2 | 1493.1 | 1495.5 | 1496.3 | 1497.5 | 1501.4 | 1501.0 | 1500.6 |
| 5°    | 1492.4 | 1485.3 | 1491.2 | 1489.2 | 1494.3 | 1499.8 | 1504.6 | 1508.9 | 1515.2 | 1518.0 | 1514.0 |
| 7.5°  | 1485.7 | 1480.9 | 1486.8 | 1492.7 | 1502.2 | 1510.5 | 1517.2 | 1527.0 | 1536.1 | 1537.6 | 1540.4 |
| 10°   | 1446.7 | 1443.1 | 1456.9 | 1472.3 | 1498.3 | 1520.7 | 1535.3 | 1546.7 | 1556.6 | 1558.1 | 1562.1 |
| 12.5° | 1406.1 | 1401.8 | 1417.1 | 1438.0 | 1480.1 | 1520.7 | 1551.4 | 1566.4 | 1575.1 | 1580.2 | 1586.1 |
| 15°   | 1399.4 | 1395.9 | 1404.5 | 1422.6 | 1457.7 | 1510.1 | 1562.5 | 1590.0 | 1597.5 | 1603.4 | 1605.8 |
| 17.5° | 1431.7 | 1425.0 | 1428.5 | 1434.8 | 1455.3 | 1500.2 | 1571.1 | 1616.8 | 1628.2 | 1634.5 | 1634.5 |
| 20°   | 1506.5 | 1497.1 | 1491.6 | 1479.0 | 1475.4 | 1501.8 | 1570.3 | 1649.1 | 1664.1 | 1672.0 | 1673.9 |
| 22.5° | 1606.2 | 1599.9 | 1588.1 | 1556.2 | 1521.5 | 1521.1 | 1585.3 | 1690.5 | 1718.4 | 1725.9 | 1721.2 |
| 25°   | 1726.7 | 1717.2 | 1702.3 | 1659.0 | 1592.4 | 1559.3 | 1610.5 | 1743.2 | 1790.1 | 1792.1 | 1778.3 |
| 27.5° | 1865.3 | 1851.2 | 1830.7 | 1773.6 | 1683.8 | 1619.2 | 1649.1 | 1803.9 | 1872.4 | 1871.6 | 1843.3 |
| 30°   | 2011.5 | 1997.3 | 1975.6 | 1906.3 | 1793.3 | 1699.9 | 1702.7 | 1869.3 | 1970.1 | 1965.8 | 1917.3 |
| 32.5° | 2118.2 | 2107.6 | 2103.2 | 2049.7 | 1919.3 | 1795.2 | 1764.1 | 1941.7 | 2090.6 | 2086.7 | 2018.9 |
| 35°   | 2200.1 | 2186.3 | 2191.5 | 2164.3 | 2056.8 | 1902.0 | 1839.3 | 2028.0 | 2237.1 | 2236.8 | 2152.5 |
| 37.5° | 2281.3 | 2269.1 | 2273.4 | 2255.3 | 2184.0 | 2037.5 | 1931.1 | 2133.6 | 2418.7 | 2427.4 | 2314.0 |
| 40°   | 2355.3 | 2342.3 | 2359.6 | 2342.7 | 2282.8 | 2181.6 | 2035.5 | 2252.9 | 2629.0 | 2645.6 | 2509.3 |
| 42.5° | 2399.8 | 2389.6 | 2418.3 | 2418.7 | 2368.7 | 2303.3 | 2150.1 | 2384.5 | 2872.4 | 2909.5 | 2749.6 |
| 45°   | 2415.2 | 2411.6 | 2455.0 | 2464.0 | 2444.7 | 2373.8 | 2253.3 | 2527.8 | 3134.8 | 3200.9 | 3023.3 |
| 47.5° | 2398.6 | 2391.9 | 2451.8 | 2485.3 | 2500.6 | 2406.9 | 2338.8 | 2683.0 | 3402.6 | 3499.5 | 3321.8 |
| 50°   | 2315.1 | 2302.1 | 2391.1 | 2461.6 | 2516.4 | 2428.6 | 2425.0 | 2862.2 | 3707.0 | 3813.0 | 3622.0 |
| 52.5° | 2165.1 | 2155.2 | 2256.4 | 2378.9 | 2481.7 | 2439.2 | 2521.9 | 3058.0 | 3996.1 | 4133.2 | 3929.6 |
| 55°   | 1973.3 | 1960.3 | 2071.7 | 2231.6 | 2395.5 | 2435.7 | 2618.8 | 3276.9 | 4337.2 | 4476.3 | 4247.4 |
| 57.5° | 1669.2 | 1643.2 | 1784.2 | 1973.3 | 2254.9 | 2431.3 | 2719.6 | 3494.8 | 4683.8 | 4850.4 | 4586.5 |
| 60°   | 1225.7 | 1187.1 | 1360.0 | 1584.1 | 1980.0 | 2389.2 | 2844.5 | 3739.0 | 5099.8 | 5249.8 | 4956.8 |
| 62.5° | 713.7  | 691.2  | 804.3  | 1013.4 | 1492.4 | 2141.0 | 2914.6 | 4022.9 | 5508.6 | 5666.1 | 5320.7 |
| 65°   | 554.2  | 547.9  | 557.7  | 573.9  | 830.7  | 1603.0 | 2698.4 | 4299.8 | 6028.5 | 6138.8 | 5700.0 |
| 67.5° | 506.9  | 502.2  | 506.5  | 476.2  | 421.4  | 892.9  | 2134.7 | 4369.9 | 6585.4 | 6652.4 | 6032.0 |
| 70°   | 450.6  | 445.1  | 459.2  | 433.3  | 331.6  | 406.1  | 1379.3 | 4115.5 | 7028.5 | 7154.1 | 6284.5 |
| 72.5° | 367.1  | 360.8  | 393.9  | 382.0  | 279.2  | 260.7  | 692.8  | 3510.9 | 6982.0 | 7242.8 | 6103.7 |
| 75°   | 282.0  | 278.5  | 317.8  | 327.7  | 227.7  | 205.2  | 332.4  | 2609.7 | 6144.3 | 6407.0 | 5260.4 |
| 77.5° | 219.0  | 216.2  | 236.3  | 272.2  | 183.5  | 159.1  | 204.4  | 1655.4 | 4630.3 | 4676.3 | 3625.1 |
| 80°   | 164.2  | 156.4  | 174.9  | 210.7  | 143.0  | 116.2  | 138.6  | 965.4  | 2926.8 | 2653.1 | 1577.8 |
| 82.5° | 102.8  | 98.9   | 114.2  | 140.6  | 100.8  | 80.0   | 90.2   | 533.3  | 1172.9 | 690.8  | 304.5  |
| 85°   | 58.7   | 57.1   | 62.2   | 80.3   | 54.7   | 46.1   | 51.6   | 235.5  | 214.3  | 147.3  | 91.8   |
| 87.5° | 23.6   | 22.8   | 28.4   | 35.8   | 20.1   | 16.9   | 18.1   | 56.7   | 47.3   | 43.7   | 30.3   |
| 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°    | 1494.7 | 1494.7 | 1494.7 | 1494.7 | 1494.7 | 1494.7 | 1494.7 | 1494.7 | 1494.7 | 1494.7 | 1494.7 |
| 2.5°  | 1499.0 | 1499.0 | 1493.5 | 1484.9 | 1475.0 | 1468.7 | 1458.5 | 1455.7 | 1445.1 | 1441.9 | 1447.1 |
| 5°    | 1517.2 | 1514.0 | 1497.1 | 1472.7 | 1439.2 | 1408.5 | 1374.6 | 1353.3 | 1323.4 | 1312.7 | 1320.6 |
| 7.5°  | 1540.0 | 1531.3 | 1502.2 | 1448.6 | 1378.5 | 1309.6 | 1237.9 | 1183.6 | 1131.6 | 1113.1 | 1115.4 |
| 10°   | 1560.9 | 1548.7 | 1499.0 | 1405.3 | 1284.0 | 1164.7 | 1050.4 | 970.5  | 909.8  | 885.0  | 890.5  |
| 12.5° | 1581.8 | 1559.3 | 1478.2 | 1333.2 | 1149.7 | 987.8  | 866.1  | 803.9  | 766.5  | 736.5  | 746.4  |
| 15°   | 1601.5 | 1569.9 | 1445.9 | 1236.7 | 1002.4 | 838.1  | 748.3  | 698.7  | 668.8  | 649.1  | 652.6  |
| 17.5° | 1624.3 | 1579.0 | 1397.4 | 1114.2 | 862.2  | 734.6  | 661.3  | 631.4  | 625.5  | 623.1  | 624.7  |
| 20°   | 1656.2 | 1587.3 | 1333.6 | 977.2  | 759.0  | 651.8  | 614.0  | 611.3  | 610.9  | 609.7  | 613.6  |
| 22.5° | 1690.5 | 1597.1 | 1249.3 | 852.7  | 671.1  | 600.2  | 593.6  | 588.0  | 584.5  | 584.1  | 588.4  |
| 25°   | 1731.0 | 1600.3 | 1143.8 | 750.7  | 596.3  | 575.8  | 568.0  | 559.7  | 557.3  | 557.3  | 559.7  |
| 27.5° | 1770.4 | 1589.6 | 1020.9 | 662.1  | 554.2  | 553.4  | 543.1  | 540.4  | 540.0  | 541.2  | 544.3  |
| 30°   | 1809.8 | 1569.5 | 898.8  | 580.2  | 529.7  | 529.7  | 526.2  | 528.2  | 529.7  | 533.7  | 536.4  |
| 32.5° | 1863.0 | 1548.3 | 796.8  | 519.5  | 508.5  | 504.5  | 508.1  | 512.0  | 513.6  | 518.7  | 523.1  |
| 35°   | 1941.0 | 1533.3 | 715.7  | 486.4  | 486.4  | 481.3  | 483.3  | 482.5  | 478.9  | 476.6  | 482.1  |
| 37.5° | 2044.2 | 1532.5 | 648.7  | 471.1  | 467.9  | 467.1  | 467.5  | 462.4  | 448.6  | 432.1  | 432.5  |
| 40°   | 2168.2 | 1553.8 | 597.1  | 460.4  | 458.1  | 462.8  | 460.4  | 446.6  | 408.8  | 380.1  | 379.3  |
| 42.5° | 2334.8 | 1614.4 | 564.0  | 447.4  | 454.5  | 460.4  | 451.0  | 403.3  | 377.7  | 358.4  | 357.6  |
| 45°   | 2531.0 | 1712.9 | 547.1  | 433.6  | 447.8  | 454.9  | 409.2  | 388.3  | 367.9  | 344.6  | 343.1  |
| 47.5° | 2753.1 | 1837.0 | 543.1  | 420.6  | 432.9  | 437.2  | 391.5  | 382.0  | 358.8  | 333.6  | 331.6  |
| 50°   | 2994.9 | 1983.9 | 553.8  | 405.3  | 411.2  | 396.2  | 385.6  | 376.9  | 352.9  | 328.1  | 325.3  |
| 52.5° | 3245.0 | 2145.8 | 575.0  | 384.4  | 389.5  | 373.0  | 383.2  | 375.7  | 349.4  | 315.9  | 313.5  |
| 55°   | 3490.8 | 2308.8 | 595.5  | 360.0  | 367.5  | 352.1  | 376.5  | 371.0  | 333.2  | 295.4  | 293.4  |
| 57.5° | 3740.5 | 2471.1 | 615.6  | 338.3  | 346.2  | 332.0  | 365.9  | 358.4  | 315.1  | 276.5  | 275.7  |
| 60°   | 4000.1 | 2628.6 | 625.1  | 317.5  | 323.0  | 313.5  | 349.8  | 336.8  | 294.6  | 257.2  | 256.0  |
| 62.5° | 4243.1 | 2759.8 | 609.7  | 296.6  | 300.1  | 296.2  | 328.5  | 311.2  | 274.1  | 235.5  | 235.1  |
| 65°   | 4486.9 | 2837.8 | 562.4  | 276.1  | 276.9  | 274.9  | 298.5  | 283.6  | 250.1  | 216.6  | 214.3  |
| 67.5° | 4707.9 | 2881.5 | 487.2  | 254.0  | 252.1  | 251.3  | 270.6  | 253.6  | 226.9  | 197.7  | 195.4  |
| 70°   | 4754.7 | 2770.4 | 372.2  | 228.0  | 228.0  | 226.1  | 239.9  | 222.5  | 201.3  | 177.6  | 176.8  |
| 72.5° | 4342.7 | 2330.5 | 264.3  | 198.5  | 201.7  | 197.7  | 209.1  | 194.6  | 175.3  | 159.5  | 154.8  |
| 75°   | 3501.8 | 1709.0 | 192.2  | 168.2  | 173.7  | 167.0  | 177.6  | 167.4  | 150.8  | 150.5  | 135.5  |
| 77.5° | 2406.1 | 1056.7 | 139.4  | 138.6  | 142.6  | 133.9  | 146.1  | 140.6  | 125.6  | 118.9  | 111.5  |
| 80°   | 1026.8 | 421.4  | 101.6  | 107.1  | 107.1  | 99.3   | 113.4  | 115.0  | 102.0  | 98.9   | 98.9   |
| 82.5° | 204.4  | 119.7  | 71.3   | 73.7   | 69.3   | 67.0   | 80.3   | 89.0   | 122.9  | 136.7  | 137.1  |
| 85°   | 61.4   | 44.1   | 42.9   | 40.2   | 35.4   | 35.8   | 47.3   | 89.4   | 110.3  | 63.0   | 54.4   |
| 87.5° | 16.9   | 11.0   | 11.4   | 9.1    | 7.5    | 9.8    | 16.1   | 67.7   | 37.0   | 15.8   | 13.4   |
| 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)