

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: P651178

Luminaire Tested: **GALN-SA1D-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651178  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-840-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3849.3 lumens  
Efficiency: N/A  
Efficacy: 59.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

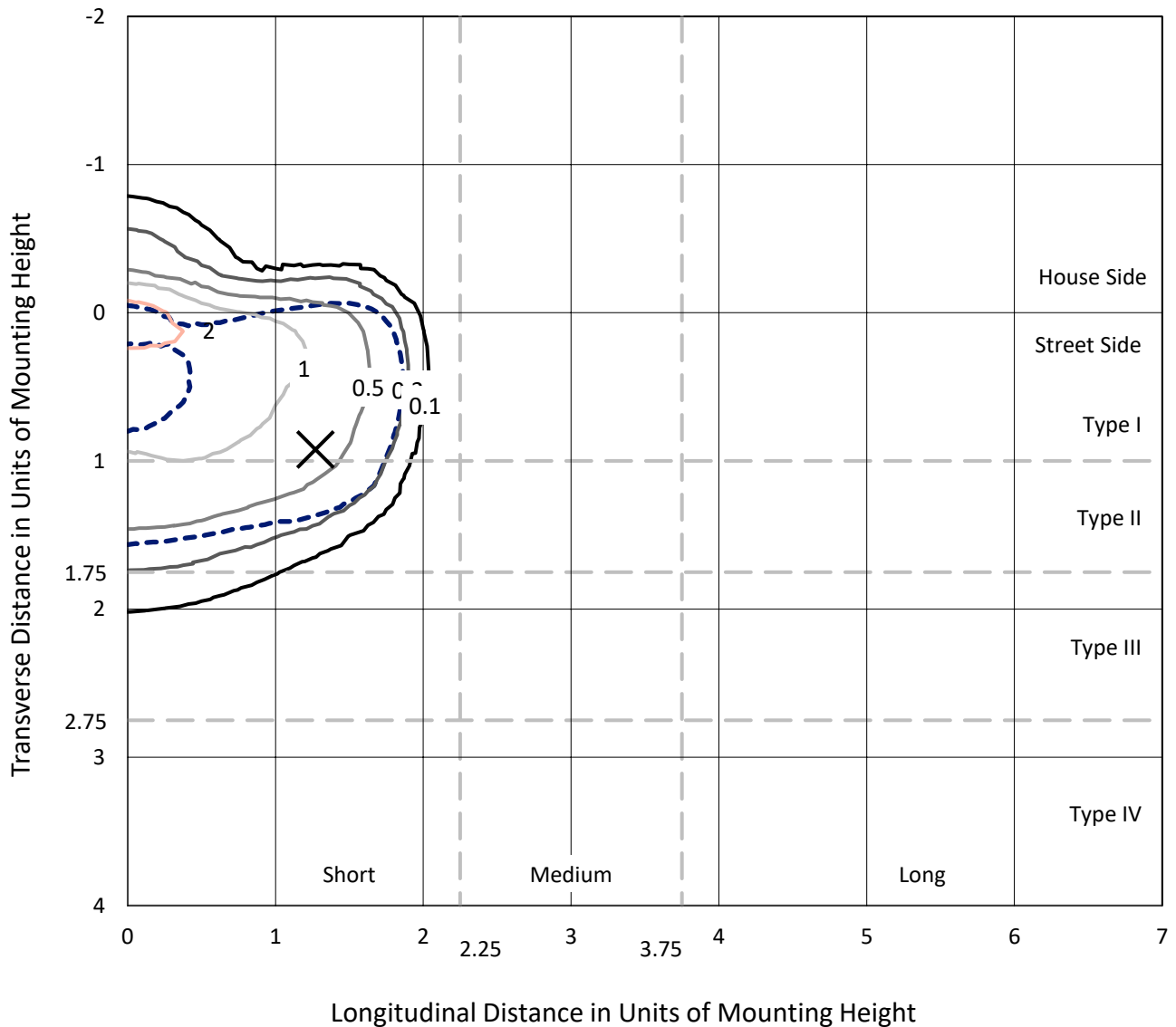
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

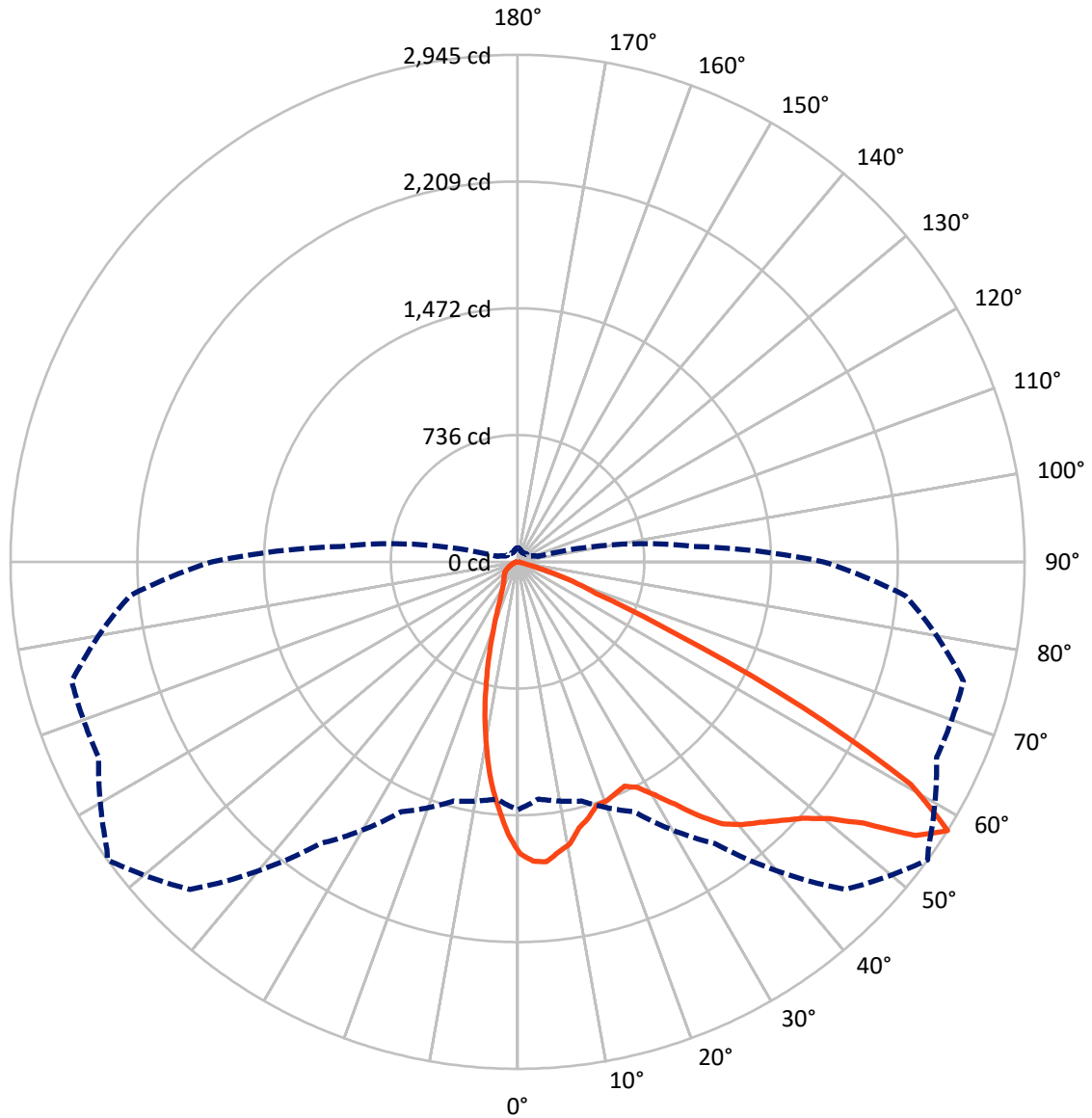
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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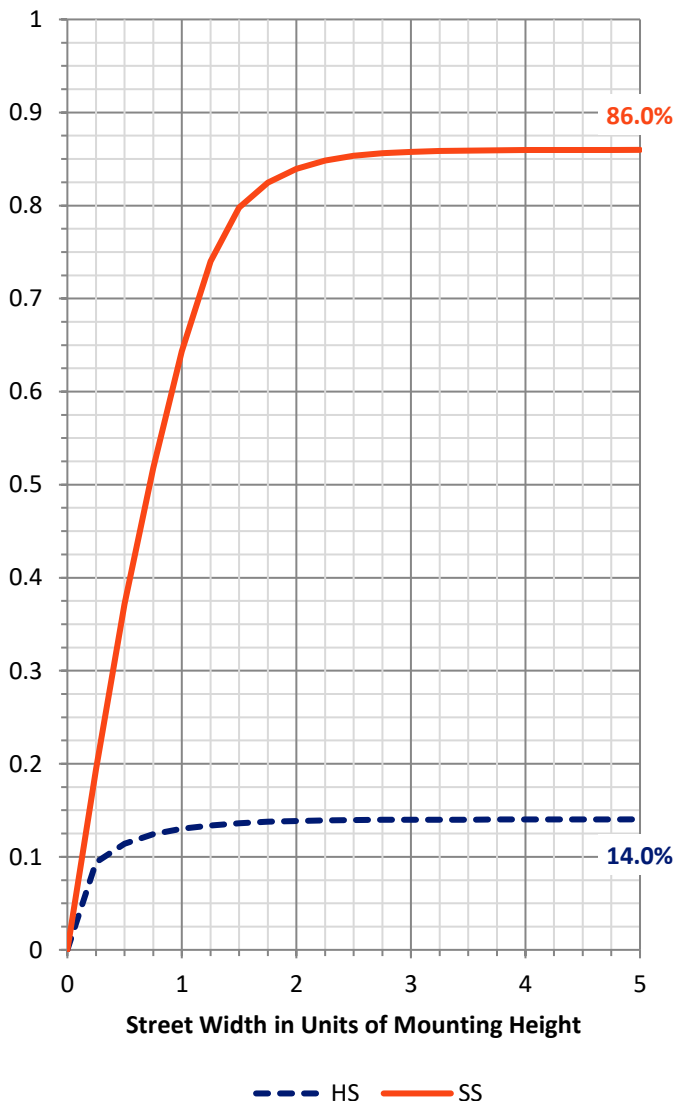
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 544.0    | 0.0    | 544.0  |
|                    | % Fixture | 14.1     | 0.0    | 14.1   |
| <b>Street Side</b> | Lumens    | 3305.3   | 0.0    | 3305.3 |
|                    | % Fixture | 85.9     | 0.0    | 85.9   |
| <b>Total</b>       | Lumens    | 3849.3   | 0.0    | 3849.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 141.9  | 3.7       |
| 10°-20°   | 302.9  | 7.9       |
| 20°-30°   | 401.5  | 10.4      |
| 30°-40°   | 583.4  | 15.2      |
| 40°-50°   | 865.2  | 22.5      |
| 50°-60°   | 1081.8 | 28.1      |
| 60°-70°   | 426.7  | 11.1      |
| 70°-80°   | 42.5   | 1.1       |
| 80°-90°   | 3.3    | 0.1       |
| 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°    | 3849.3 | 100.0     |
| 0°-180°   | 3849.3 | 100.0     |

**Coefficient of Utilization**

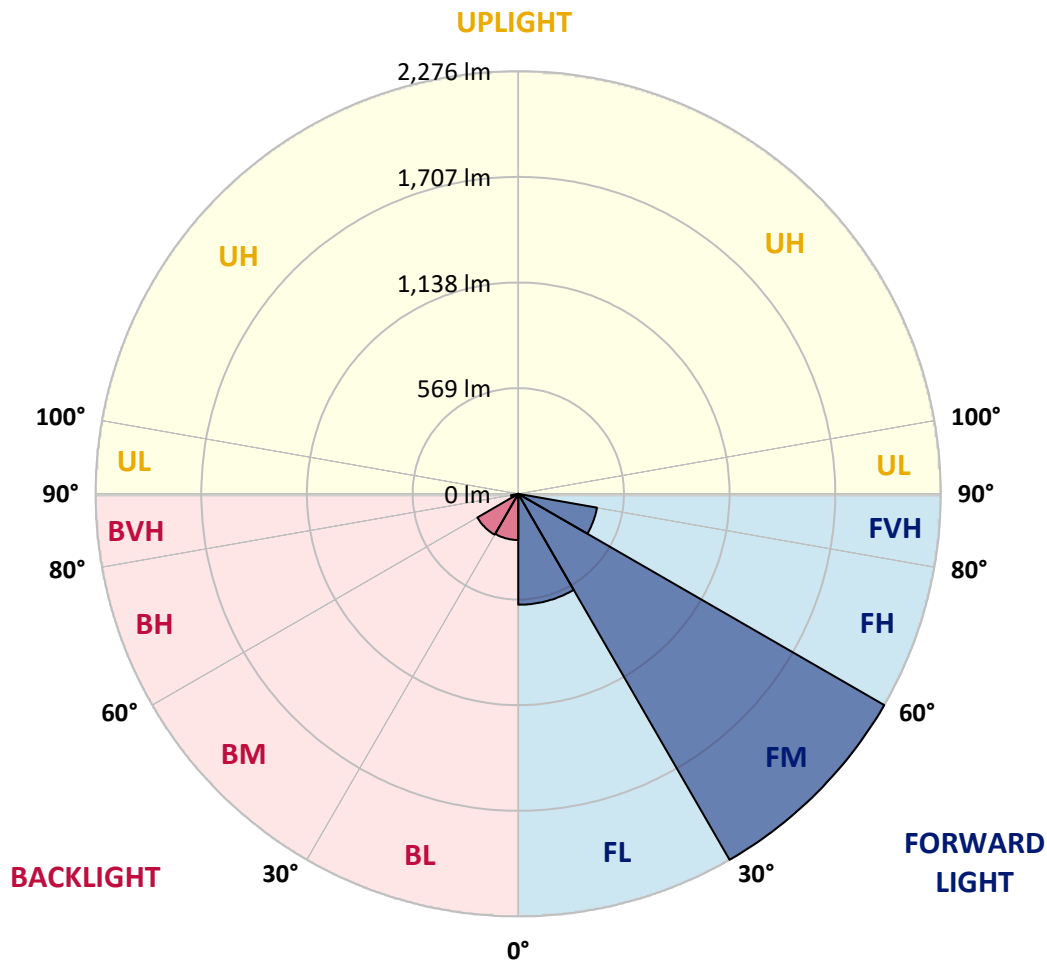


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 597.5  | 15.5      |                         |      |        |
| FM (30°-60°)   | 2276.1 | 59.1      |                         |      |        |
| FH (60°-80°)   | 430.2  | 11.2      |                         |      | G0/660 |
| FVH (80°-90°)  | 1.5    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 248.8  | 6.5       | B1/500                  |      |        |
| BM (30°-60°)   | 254.4  | 6.6       | B1/1000                 |      |        |
| BH (60°-80°)   | 39.0   | 1.0       | B0/110                  |      | G0/110 |
| BVH (80°-90°)  | 1.8    | 0.0       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 54°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1695.6 | 1695.6 | 1695.6 | 1695.6 | 1695.6 | 1695.6 | 1695.6 | 1695.6 | 1695.6 | 1695.6 | 1695.6 |
| 2.5°  | 1794.4 | 1775.9 | 1777.3 | 1770.8 | 1762.2 | 1768.6 | 1740.7 | 1747.2 | 1746.5 | 1708.5 | 1683.5 |
| 5°    | 1749.4 | 1769.4 | 1748.6 | 1765.8 | 1749.4 | 1767.2 | 1750.0 | 1737.2 | 1716.4 | 1688.5 | 1642.0 |
| 7.5°  | 1672.7 | 1653.4 | 1659.1 | 1680.7 | 1684.2 | 1724.3 | 1702.8 | 1719.3 | 1710.7 | 1655.6 | 1591.8 |
| 10°   | 1518.8 | 1514.6 | 1543.2 | 1571.8 | 1606.9 | 1649.9 | 1666.3 | 1657.0 | 1650.5 | 1629.8 | 1544.7 |
| 12.5° | 1400.8 | 1412.9 | 1412.2 | 1459.5 | 1518.8 | 1543.2 | 1586.1 | 1584.7 | 1620.5 | 1581.8 | 1500.3 |
| 15°   | 1288.4 | 1294.8 | 1324.9 | 1354.3 | 1420.1 | 1489.5 | 1542.5 | 1549.6 | 1592.6 | 1565.4 | 1465.9 |
| 17.5° | 1219.7 | 1210.4 | 1234.0 | 1269.1 | 1336.3 | 1427.3 | 1486.0 | 1503.1 | 1561.8 | 1556.1 | 1426.5 |
| 20°   | 1151.7 | 1151.7 | 1171.0 | 1212.5 | 1274.0 | 1376.4 | 1480.9 | 1475.9 | 1561.8 | 1545.3 | 1384.3 |
| 22.5° | 1128.8 | 1140.2 | 1145.2 | 1176.7 | 1249.7 | 1337.8 | 1459.5 | 1468.7 | 1573.9 | 1540.3 | 1365.7 |
| 25°   | 1160.2 | 1145.2 | 1146.6 | 1171.7 | 1240.4 | 1319.2 | 1443.7 | 1464.4 | 1596.1 | 1565.4 | 1350.6 |
| 27.5° | 1165.3 | 1180.3 | 1184.6 | 1201.8 | 1247.5 | 1324.9 | 1483.1 | 1525.3 | 1651.3 | 1624.1 | 1354.9 |
| 30°   | 1208.9 | 1224.0 | 1223.2 | 1252.6 | 1284.1 | 1371.4 | 1571.1 | 1579.7 | 1765.1 | 1697.8 | 1381.4 |
| 32.5° | 1261.9 | 1277.6 | 1282.7 | 1317.0 | 1342.1 | 1456.6 | 1678.5 | 1700.7 | 1874.6 | 1813.8 | 1450.9 |
| 35°   | 1327.8 | 1322.1 | 1344.9 | 1379.2 | 1433.0 | 1581.2 | 1809.5 | 1846.7 | 1992.7 | 1964.1 | 1522.5 |
| 37.5° | 1410.0 | 1402.9 | 1425.1 | 1480.9 | 1553.9 | 1728.6 | 1930.4 | 1954.7 | 2078.6 | 2103.7 | 1654.8 |
| 40°   | 1468.0 | 1470.9 | 1538.2 | 1613.4 | 1690.7 | 1868.9 | 2007.0 | 2030.6 | 2138.7 | 2233.9 | 1755.1 |
| 42.5° | 1564.7 | 1582.6 | 1663.4 | 1755.1 | 1835.9 | 1974.1 | 2069.3 | 2092.2 | 2166.6 | 2338.4 | 1890.3 |
| 45°   | 1705.0 | 1697.1 | 1786.5 | 1888.9 | 1978.4 | 2083.6 | 2143.0 | 2135.1 | 2183.1 | 2442.2 | 1975.5 |
| 47.5° | 1885.4 | 1886.8 | 1946.2 | 2033.5 | 2126.6 | 2178.8 | 2225.3 | 2197.4 | 2217.5 | 2551.7 | 2089.3 |
| 50°   | 2008.5 | 2019.2 | 2067.1 | 2156.6 | 2203.2 | 2283.3 | 2342.7 | 2325.5 | 2319.1 | 2617.5 | 2160.9 |
| 52.5° | 2039.9 | 2072.1 | 2097.9 | 2209.6 | 2318.4 | 2445.0 | 2520.9 | 2557.4 | 2442.9 | 2639.7 | 2251.8 |
| 55°   | 1802.3 | 1830.9 | 1921.9 | 2075.0 | 2362.0 | 2701.3 | 2805.8 | 2806.5 | 2604.7 | 2738.5 | 2315.5 |
| 57.5° | 1440.8 | 1382.9 | 1438.7 | 1601.2 | 1997.0 | 2690.5 | 2944.7 | 2911.0 | 2685.6 | 2680.5 | 2260.4 |
| 60°   | 996.3  | 982.0  | 985.6  | 1050.0 | 1382.2 | 2140.2 | 2624.0 | 2667.7 | 2473.0 | 2323.3 | 1789.4 |
| 62.5° | 789.5  | 777.3  | 761.6  | 754.4  | 858.2  | 1333.5 | 1851.0 | 1912.5 | 1729.3 | 1506.7 | 1060.8 |
| 65°   | 618.4  | 611.2  | 613.4  | 642.0  | 641.3  | 756.6  | 1012.1 | 987.1  | 790.2  | 584.1  | 333.5  |
| 67.5° | 417.3  | 428.1  | 436.6  | 523.2  | 567.6  | 526.8  | 488.9  | 474.6  | 256.9  | 108.1  | 73.8   |
| 70°   | 234.8  | 236.2  | 245.5  | 327.1  | 430.9  | 408.7  | 337.2  | 337.2  | 128.1  | 39.4   | 42.2   |
| 72.5° | 128.1  | 123.8  | 115.2  | 141.0  | 191.8  | 194.7  | 150.3  | 130.9  | 37.9   | 25.7   | 23.6   |
| 75°   | 62.2   | 61.6   | 53.0   | 43.6   | 41.5   | 34.4   | 26.5   | 24.3   | 17.2   | 16.5   | 14.3   |
| 77.5° | 12.9   | 12.2   | 6.5    | 6.5    | 7.1    | 7.9    | 10.0   | 10.0   | 12.2   | 12.2   | 10.0   |
| 80°   | 0.0    | 0.0    | 0.8    | 2.9    | 5.0    | 7.1    | 8.6    | 8.6    | 10.0   | 10.0   | 7.9    |
| 82.5° | 0.0    | 0.0    | 0.8    | 2.2    | 4.3    | 6.5    | 7.9    | 8.6    | 10.0   | 10.8   | 8.6    |
| 85°   | 0.0    | 0.0    | 0.0    | 1.4    | 3.6    | 5.0    | 4.3    | 4.3    | 3.6    | 2.9    | 1.4    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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°    | 1695.6 | 1695.6 | 1695.6 | 1695.6 | 1695.6 | 1695.6 | 1695.6 | 1695.6 | 1695.6 | 1695.6 | 1695.6 |
| 2.5°  | 1670.6 | 1669.1 | 1636.2 | 1617.7 | 1584.0 | 1554.7 | 1531.0 | 1513.9 | 1513.9 | 1503.1 | 1493.1 |
| 5°    | 1623.4 | 1611.2 | 1541.0 | 1496.0 | 1432.2 | 1385.0 | 1352.8 | 1327.8 | 1288.4 | 1299.1 | 1256.9 |
| 7.5°  | 1564.7 | 1533.9 | 1440.8 | 1372.1 | 1284.1 | 1216.8 | 1148.0 | 1087.2 | 1028.5 | 1002.1 | 1016.3 |
| 10°   | 1501.7 | 1448.0 | 1322.7 | 1213.9 | 1104.4 | 981.3  | 901.1  | 803.8  | 743.7  | 740.1  | 724.4  |
| 12.5° | 1435.1 | 1374.3 | 1221.8 | 1071.5 | 927.6  | 779.4  | 657.1  | 566.2  | 525.4  | 480.3  | 488.9  |
| 15°   | 1385.0 | 1294.8 | 1109.4 | 928.4  | 737.2  | 587.6  | 464.6  | 394.4  | 355.7  | 345.0  | 341.4  |
| 17.5° | 1330.6 | 1234.0 | 994.9  | 775.9  | 578.4  | 423.0  | 334.3  | 300.7  | 285.6  | 285.6  | 283.4  |
| 20°   | 1274.0 | 1165.3 | 881.1  | 634.2  | 433.8  | 315.6  | 267.7  | 256.9  | 256.3  | 255.5  | 255.5  |
| 22.5° | 1236.9 | 1086.6 | 778.0  | 503.9  | 327.1  | 252.6  | 232.6  | 228.3  | 231.2  | 239.8  | 239.8  |
| 25°   | 1197.5 | 1010.6 | 664.2  | 388.6  | 253.4  | 216.9  | 205.5  | 208.3  | 215.5  | 223.3  | 220.4  |
| 27.5° | 1157.4 | 961.3  | 556.8  | 304.9  | 207.6  | 189.6  | 185.4  | 191.8  | 199.7  | 206.9  | 204.7  |
| 30°   | 1148.0 | 908.3  | 455.2  | 231.2  | 178.2  | 165.3  | 168.2  | 173.9  | 181.8  | 184.7  | 187.5  |
| 32.5° | 1162.4 | 866.8  | 372.9  | 189.6  | 155.3  | 151.7  | 151.7  | 154.6  | 159.6  | 166.1  | 163.9  |
| 35°   | 1203.2 | 843.2  | 294.9  | 164.7  | 142.5  | 138.8  | 138.2  | 141.0  | 143.9  | 146.0  | 143.9  |
| 37.5° | 1265.5 | 824.6  | 241.2  | 146.0  | 133.9  | 128.1  | 126.7  | 126.0  | 128.8  | 129.5  | 130.9  |
| 40°   | 1344.9 | 834.6  | 204.7  | 134.6  | 125.2  | 118.8  | 114.5  | 114.5  | 114.5  | 116.6  | 117.4  |
| 42.5° | 1430.8 | 848.1  | 176.8  | 128.1  | 117.4  | 109.5  | 105.2  | 103.8  | 105.2  | 108.1  | 107.4  |
| 45°   | 1521.0 | 874.6  | 158.9  | 118.1  | 110.3  | 100.2  | 94.4   | 93.0   | 96.6   | 102.3  | 101.7  |
| 47.5° | 1605.5 | 912.6  | 145.3  | 111.7  | 103.1  | 93.8   | 86.6   | 85.2   | 91.6   | 99.5   | 100.2  |
| 50°   | 1689.9 | 978.4  | 140.3  | 106.6  | 98.1   | 87.3   | 80.9   | 79.5   | 86.6   | 96.6   | 98.8   |
| 52.5° | 1787.3 | 1049.3 | 136.7  | 100.2  | 92.3   | 82.3   | 75.2   | 73.8   | 81.6   | 94.4   | 95.2   |
| 55°   | 1851.0 | 1109.4 | 133.9  | 88.7   | 81.6   | 74.4   | 68.7   | 68.0   | 76.6   | 88.1   | 90.9   |
| 57.5° | 1776.5 | 1025.7 | 123.8  | 77.3   | 69.5   | 65.9   | 60.8   | 60.8   | 68.0   | 78.7   | 80.9   |
| 60°   | 1347.0 | 675.0  | 88.1   | 62.2   | 58.7   | 56.5   | 54.4   | 54.4   | 60.1   | 68.0   | 68.7   |
| 62.5° | 788.8  | 363.6  | 56.5   | 50.1   | 50.1   | 47.9   | 44.4   | 44.4   | 50.1   | 54.4   | 55.1   |
| 65°   | 234.1  | 116.6  | 45.8   | 43.0   | 42.2   | 38.7   | 35.1   | 34.4   | 38.7   | 40.8   | 40.1   |
| 67.5° | 67.3   | 53.7   | 37.9   | 35.8   | 35.1   | 29.4   | 27.2   | 26.5   | 27.2   | 25.7   | 25.1   |
| 70°   | 40.1   | 36.5   | 29.4   | 30.0   | 26.5   | 21.4   | 19.3   | 18.6   | 17.2   | 15.1   | 13.6   |
| 72.5° | 22.2   | 22.2   | 21.4   | 22.9   | 18.6   | 14.3   | 12.2   | 10.0   | 7.9    | 6.5    | 5.7    |
| 75°   | 13.6   | 14.3   | 15.1   | 15.7   | 12.2   | 9.3    | 7.9    | 5.0    | 2.9    | 1.4    | 1.4    |
| 77.5° | 9.3    | 10.0   | 10.8   | 11.4   | 10.0   | 8.6    | 6.5    | 3.6    | 0.8    | 0.0    | 0.0    |
| 80°   | 7.1    | 7.9    | 9.3    | 10.0   | 10.8   | 11.4   | 8.6    | 3.6    | 0.8    | 0.0    | 0.0    |
| 82.5° | 7.9    | 8.6    | 10.8   | 10.0   | 10.0   | 10.0   | 7.9    | 3.6    | 0.8    | 0.0    | 0.0    |
| 85°   | 1.4    | 2.2    | 3.6    | 3.6    | 5.0    | 6.5    | 5.0    | 1.4    | 0.0    | 0.0    | 0.0    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 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)