

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: P527723

Luminaire Tested: **GALN-SA2D-730-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527723  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-730-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8461 lumens  
Efficiency: N/A  
Efficacy: 67.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

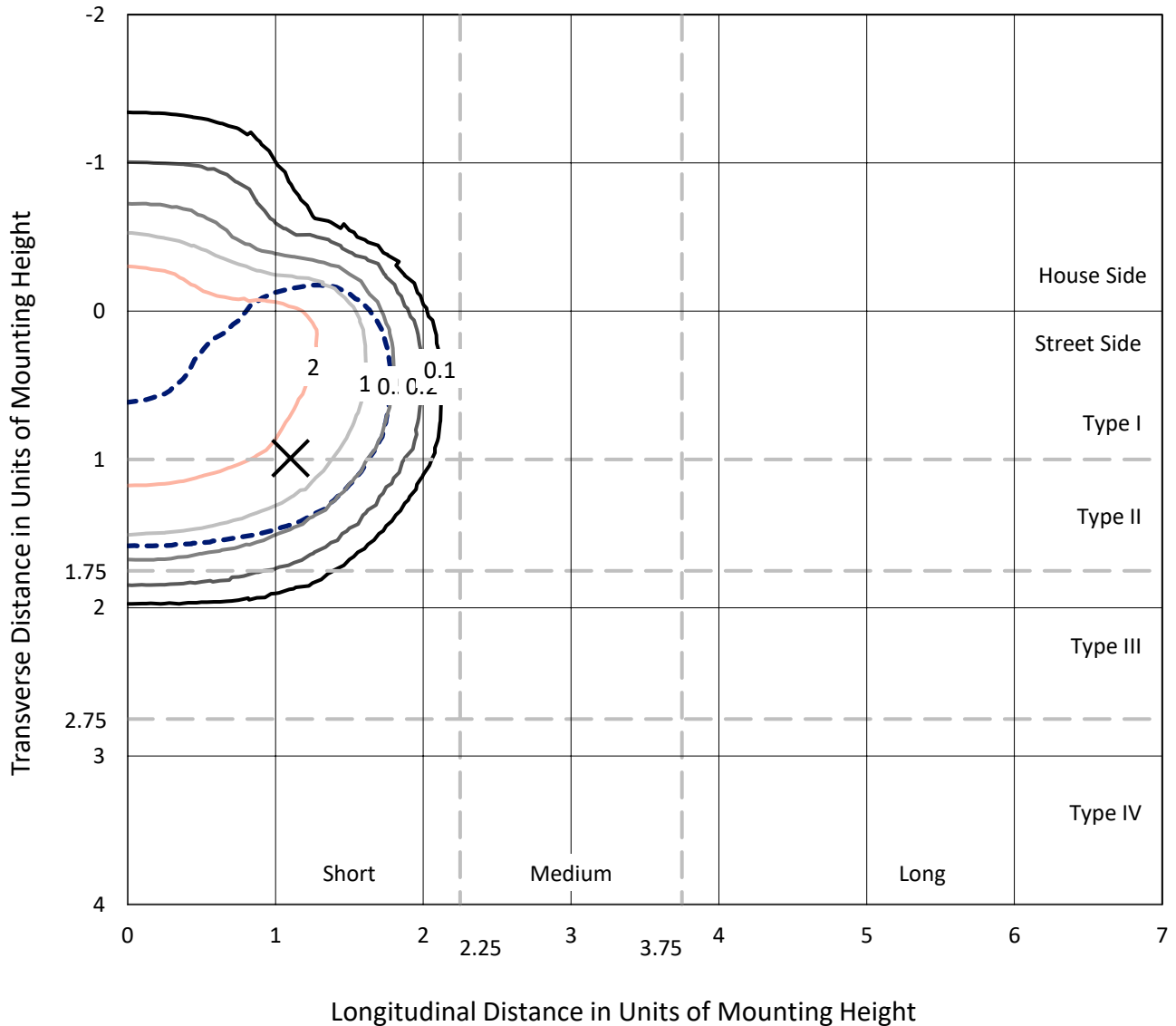
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

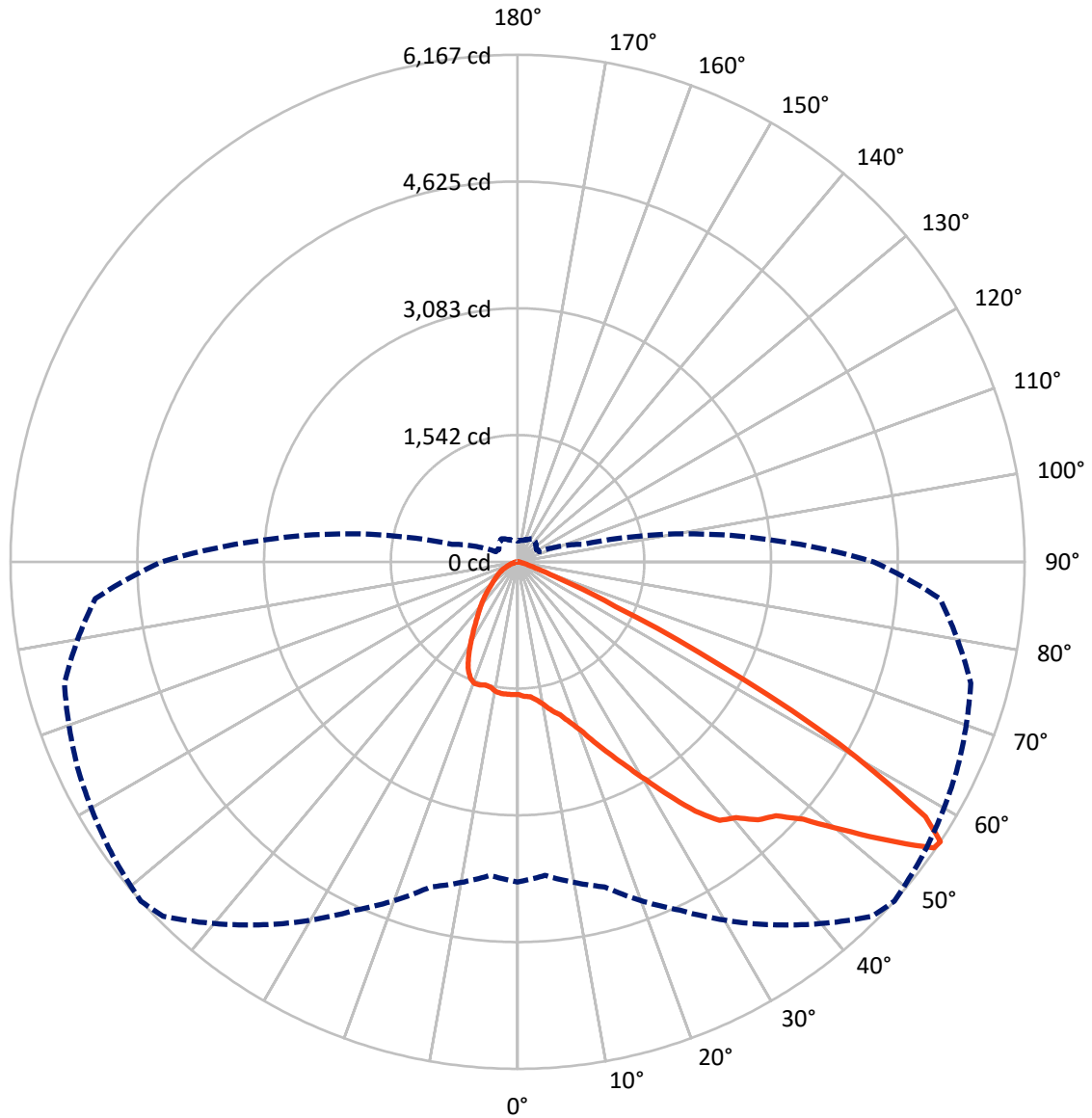
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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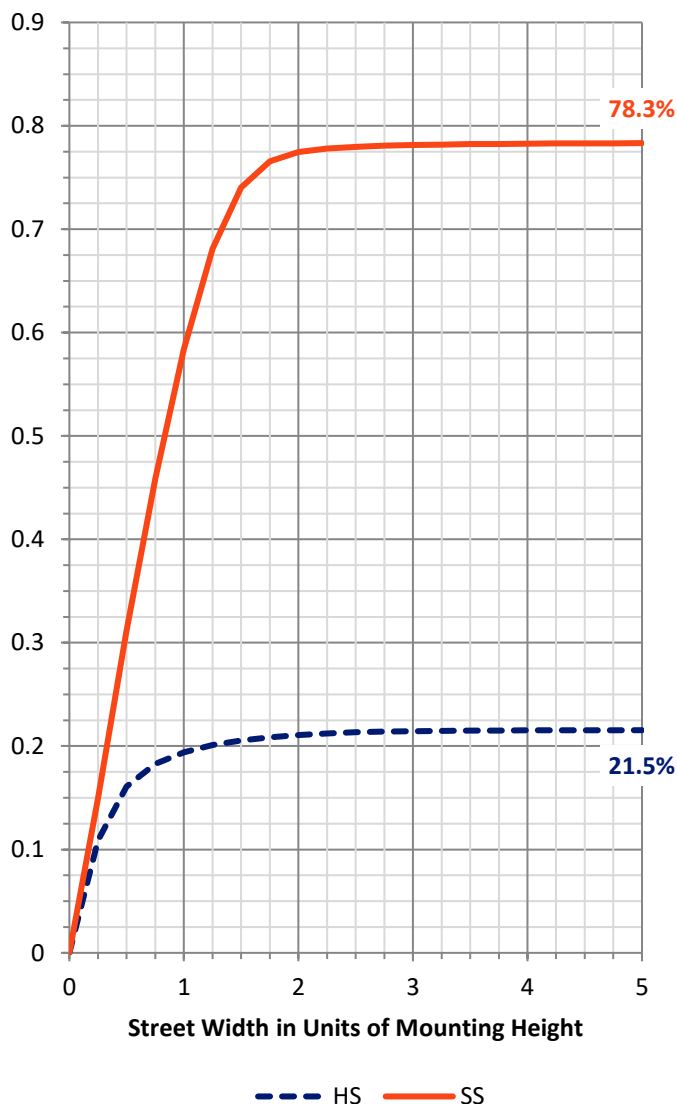
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1840.1   | 0.0    | 1840.1 |
|                    | % Fixture | 21.7     | 0.0    | 21.7   |
| <b>Street Side</b> | Lumens    | 6620.9   | 0.0    | 6620.9 |
|                    | % Fixture | 78.3     | 0.0    | 78.3   |
| <b>Total</b>       | Lumens    | 8461.0   | 0.0    | 8461.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 157.4  | 1.9       |
| 10°-20°   | 503.1  | 5.9       |
| 20°-30°   | 912.5  | 10.8      |
| 30°-40°   | 1433.4 | 16.9      |
| 40°-50°   | 2091.0 | 24.7      |
| 50°-60°   | 2519.3 | 29.8      |
| 60°-70°   | 737.6  | 8.7       |
| 70°-80°   | 93.6   | 1.1       |
| 80°-90°   | 13.1   | 0.2       |
| 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°    | 8461.0 | 100.0     |
| 0°-180°   | 8461.0 | 100.0     |

**Coefficient of Utilization**

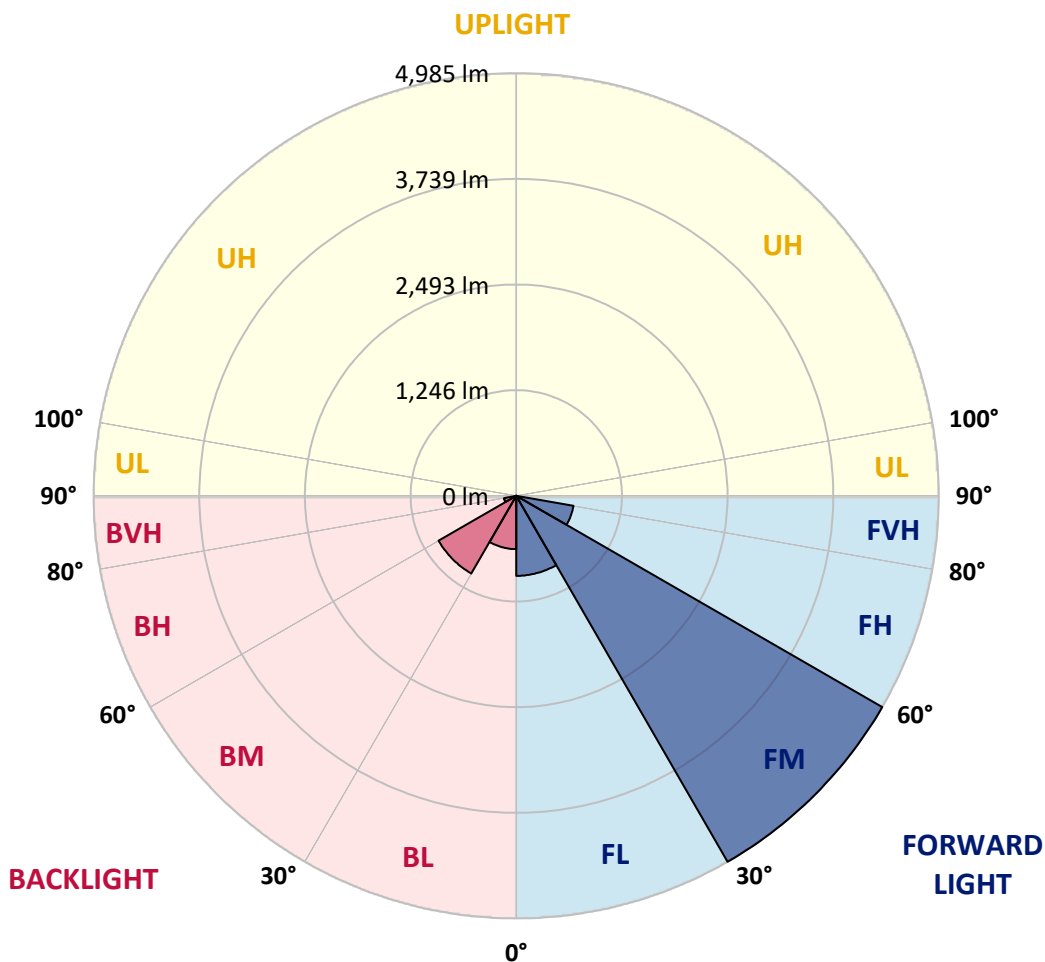


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 944.1  | 11.2      |                         |      |         |
| FM (30°-60°)   | 4985.2 | 58.9      |                         |      |         |
| FH (60°-80°)   | 685.0  | 8.1       |                         |      | G1/1800 |
| FVH (80°-90°)  | 6.6    | 0.1       |                         |      | G0/10   |
| BL (0°-30°)    | 628.9  | 7.4       | B2/1000                 |      |         |
| BM (30°-60°)   | 1058.4 | 12.5      | B2/2500                 |      |         |
| BH (60°-80°)   | 146.2  | 1.7       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 6.5    | 0.1       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 48°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1616.1 | 1616.1 | 1616.1 | 1616.1 | 1616.1 | 1616.1 | 1616.1 | 1616.1 | 1616.1 | 1616.1 | 1616.1 |
| 2.5°  | 1645.3 | 1637.6 | 1637.6 | 1625.3 | 1639.2 | 1633.0 | 1637.6 | 1622.2 | 1637.6 | 1614.5 | 1633.0 |
| 5°    | 1653.0 | 1654.6 | 1648.4 | 1656.1 | 1656.1 | 1665.4 | 1649.9 | 1663.8 | 1671.5 | 1654.6 | 1646.9 |
| 7.5°  | 1693.1 | 1696.2 | 1694.6 | 1688.5 | 1700.8 | 1699.2 | 1697.7 | 1686.9 | 1690.0 | 1683.8 | 1674.6 |
| 10°   | 1771.7 | 1770.1 | 1777.8 | 1762.4 | 1753.2 | 1763.9 | 1767.0 | 1750.1 | 1737.8 | 1733.1 | 1703.9 |
| 12.5° | 1885.7 | 1867.2 | 1856.4 | 1841.0 | 1845.6 | 1830.2 | 1857.9 | 1828.7 | 1822.5 | 1794.8 | 1765.5 |
| 15°   | 1978.1 | 1975.0 | 1976.5 | 1951.9 | 1924.2 | 1930.3 | 1930.3 | 1914.9 | 1905.7 | 1871.8 | 1830.2 |
| 17.5° | 2167.6 | 2102.9 | 2116.7 | 2085.9 | 2062.8 | 2061.3 | 2047.4 | 2050.5 | 2025.8 | 1955.0 | 1891.8 |
| 20°   | 2315.5 | 2287.7 | 2266.2 | 2213.8 | 2178.4 | 2189.1 | 2183.0 | 2167.6 | 2159.9 | 2067.4 | 1978.1 |
| 22.5° | 2448.0 | 2457.2 | 2421.8 | 2407.9 | 2358.6 | 2363.2 | 2375.6 | 2361.7 | 2303.1 | 2207.6 | 2075.1 |
| 25°   | 2634.4 | 2623.6 | 2575.8 | 2558.9 | 2512.7 | 2529.6 | 2577.4 | 2566.6 | 2529.6 | 2357.1 | 2150.6 |
| 27.5° | 2854.7 | 2817.7 | 2826.9 | 2749.9 | 2705.2 | 2753.0 | 2810.0 | 2863.9 | 2759.2 | 2532.7 | 2240.0 |
| 30°   | 3010.3 | 2971.8 | 2968.7 | 2965.6 | 2954.8 | 3010.3 | 3076.5 | 3125.8 | 3041.1 | 2708.3 | 2387.9 |
| 32.5° | 3087.3 | 3096.5 | 3122.7 | 3113.5 | 3207.5 | 3321.5 | 3390.8 | 3461.7 | 3355.4 | 2994.9 | 2583.5 |
| 35°   | 3292.2 | 3233.6 | 3292.2 | 3298.4 | 3395.4 | 3637.3 | 3725.1 | 3894.6 | 3868.4 | 3400.0 | 2822.3 |
| 37.5° | 3412.4 | 3407.7 | 3415.4 | 3474.0 | 3568.0 | 3866.8 | 3991.6 | 4122.6 | 4073.3 | 3643.4 | 3119.6 |
| 40°   | 3611.1 | 3623.4 | 3621.9 | 3666.5 | 3769.8 | 4039.4 | 4090.2 | 4196.5 | 4201.1 | 3980.8 | 3557.2 |
| 42.5° | 3930.0 | 3880.7 | 3848.3 | 3894.6 | 4039.4 | 4188.8 | 4290.5 | 4268.9 | 4421.4 | 4390.6 | 4119.5 |
| 45°   | 4216.5 | 4245.8 | 4198.0 | 4275.1 | 4327.5 | 4407.6 | 4404.5 | 4450.7 | 4644.8 | 4791.2 | 4543.1 |
| 47.5° | 4484.6 | 4503.1 | 4526.2 | 4578.6 | 4692.6 | 4704.9 | 4678.7 | 4658.7 | 4926.7 | 5077.7 | 4871.3 |
| 50°   | 4644.8 | 4661.8 | 4769.6 | 4863.6 | 5076.2 | 5103.9 | 5119.3 | 5068.5 | 5250.3 | 5267.2 | 5180.9 |
| 52.5° | 4601.7 | 4620.2 | 4771.1 | 5080.8 | 5419.7 | 5673.9 | 5627.7 | 5541.4 | 5530.6 | 5596.9 | 5467.5 |
| 55°   | 4219.6 | 4202.7 | 4410.6 | 4892.8 | 5527.6 | 6137.6 | 6143.8 | 6052.9 | 5878.8 | 5834.1 | 5424.3 |
| 56°   | 3894.6 | 3828.3 | 4093.3 | 4675.6 | 5388.9 | 6097.6 | 6166.9 | 6069.8 | 5906.5 | 5706.3 | 5157.8 |
| 57.5° | 3190.5 | 3253.7 | 3517.1 | 3999.3 | 4909.8 | 5809.5 | 5849.5 | 5826.4 | 5703.2 | 5367.3 | 4538.5 |
| 60°   | 1759.3 | 1870.2 | 2102.9 | 2692.9 | 3495.5 | 4458.4 | 4490.8 | 4678.7 | 4701.8 | 4110.2 | 3122.7 |
| 62.5° | 747.2  | 734.9  | 976.7  | 1411.2 | 1990.4 | 2691.4 | 2751.5 | 2944.0 | 2979.5 | 2369.4 | 1566.8 |
| 65°   | 303.5  | 320.4  | 442.1  | 710.2  | 1052.2 | 1226.3 | 1311.0 | 1374.2 | 1491.3 | 978.3  | 577.7  |
| 67.5° | 200.3  | 198.7  | 260.4  | 405.2  | 566.9  | 546.9  | 546.9  | 577.7  | 534.6  | 399.0  | 249.6  |
| 70°   | 143.3  | 147.9  | 186.4  | 280.4  | 352.8  | 261.9  | 251.1  | 240.3  | 272.7  | 263.4  | 201.8  |
| 72.5° | 94.0   | 100.1  | 124.8  | 167.9  | 183.3  | 143.3  | 143.3  | 172.5  | 224.9  | 212.6  | 164.8  |
| 75°   | 61.6   | 63.2   | 77.0   | 97.1   | 90.9   | 73.9   | 81.7   | 115.5  | 163.3  | 157.1  | 117.1  |
| 77.5° | 41.6   | 43.1   | 52.4   | 63.2   | 50.8   | 41.6   | 44.7   | 58.5   | 80.1   | 80.1   | 61.6   |
| 80°   | 15.4   | 16.9   | 21.6   | 20.0   | 23.1   | 29.3   | 32.4   | 40.1   | 47.8   | 47.8   | 41.6   |
| 82.5° | 0.0    | 1.5    | 4.6    | 10.8   | 16.9   | 23.1   | 26.2   | 30.8   | 35.4   | 40.1   | 38.5   |
| 85°   | 0.0    | 1.5    | 4.6    | 7.7    | 12.3   | 13.9   | 15.4   | 10.8   | 9.2    | 9.2    | 7.7    |
| 87.5° | 0.0    | 0.0    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 3.1    | 1.5    | 1.5    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P527723

CATALOG NUMBER: GALN-SA2D-730-U-T3-GRSBK

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1616.1 | 1616.1 | 1616.1 | 1616.1 | 1616.1 | 1616.1 | 1616.1 | 1616.1 | 1616.1 | 1616.1 | 1616.1 |
| 2.5°  | 1616.1 | 1614.5 | 1614.5 | 1609.9 | 1619.1 | 1614.5 | 1617.6 | 1616.1 | 1596.0 | 1611.4 | 1600.6 |
| 5°    | 1633.0 | 1643.8 | 1626.8 | 1623.8 | 1611.4 | 1616.1 | 1616.1 | 1600.6 | 1614.5 | 1613.0 | 1609.9 |
| 7.5°  | 1676.1 | 1657.6 | 1639.2 | 1620.7 | 1617.6 | 1613.0 | 1596.0 | 1589.9 | 1600.6 | 1588.3 | 1606.8 |
| 10°   | 1694.6 | 1697.7 | 1670.0 | 1645.3 | 1622.2 | 1589.9 | 1566.8 | 1552.9 | 1535.9 | 1554.4 | 1565.2 |
| 12.5° | 1779.4 | 1748.5 | 1700.8 | 1662.3 | 1583.7 | 1551.4 | 1528.2 | 1522.1 | 1551.4 | 1557.5 | 1546.7 |
| 15°   | 1808.6 | 1804.0 | 1742.4 | 1656.1 | 1574.5 | 1535.9 | 1540.6 | 1528.2 | 1531.3 | 1515.9 | 1519.0 |
| 17.5° | 1868.7 | 1816.3 | 1743.9 | 1636.1 | 1572.9 | 1563.7 | 1535.9 | 1486.6 | 1458.9 | 1446.6 | 1457.4 |
| 20°   | 1935.0 | 1884.1 | 1779.4 | 1643.8 | 1586.8 | 1562.1 | 1471.2 | 1411.2 | 1354.2 | 1323.3 | 1324.9 |
| 22.5° | 1993.5 | 1930.3 | 1763.9 | 1646.9 | 1599.1 | 1497.4 | 1388.1 | 1269.4 | 1198.6 | 1150.8 | 1152.3 |
| 25°   | 2064.4 | 1975.0 | 1770.1 | 1653.0 | 1566.8 | 1394.2 | 1237.1 | 1121.5 | 1036.8 | 1004.4 | 1015.2 |
| 27.5° | 2104.4 | 2002.7 | 1804.0 | 1666.9 | 1482.0 | 1247.9 | 1078.4 | 970.6  | 921.3  | 905.9  | 904.3  |
| 30°   | 2224.6 | 2064.4 | 1845.6 | 1639.2 | 1340.3 | 1090.7 | 933.6  | 867.3  | 819.6  | 805.7  | 808.8  |
| 32.5° | 2403.3 | 2176.8 | 1899.5 | 1566.8 | 1195.5 | 950.5  | 839.6  | 790.3  | 745.6  | 719.4  | 716.4  |
| 35°   | 2552.7 | 2369.4 | 1956.5 | 1454.3 | 1027.6 | 842.7  | 773.4  | 711.7  | 644.0  | 614.7  | 607.0  |
| 37.5° | 2837.7 | 2586.6 | 1944.2 | 1284.8 | 867.3  | 762.6  | 702.5  | 627.0  | 568.5  | 528.4  | 523.8  |
| 40°   | 3216.7 | 2840.8 | 1884.1 | 1078.4 | 748.7  | 691.7  | 627.0  | 554.6  | 482.2  | 448.3  | 445.2  |
| 42.5° | 3677.3 | 3152.0 | 1774.7 | 868.9  | 630.1  | 620.8  | 562.3  | 479.1  | 414.4  | 389.8  | 391.3  |
| 45°   | 4051.7 | 3418.5 | 1663.8 | 697.9  | 542.3  | 551.5  | 500.7  | 422.1  | 377.4  | 357.4  | 357.4  |
| 47.5° | 4384.5 | 3598.8 | 1543.6 | 576.2  | 460.6  | 482.2  | 437.5  | 391.3  | 352.8  | 337.4  | 334.3  |
| 50°   | 4704.9 | 3782.1 | 1423.5 | 466.8  | 392.8  | 414.4  | 409.8  | 372.8  | 342.0  | 323.5  | 325.1  |
| 52.5° | 4905.2 | 3811.4 | 1271.0 | 382.1  | 343.5  | 368.2  | 383.6  | 349.7  | 315.8  | 305.0  | 302.0  |
| 55°   | 4660.2 | 3433.9 | 986.0  | 314.3  | 291.2  | 323.5  | 352.8  | 314.3  | 288.1  | 269.6  | 268.1  |
| 56°   | 4330.5 | 3070.3 | 824.2  | 289.6  | 275.8  | 311.2  | 342.0  | 300.4  | 271.1  | 260.4  | 252.7  |
| 57.5° | 3666.5 | 2512.7 | 608.5  | 257.3  | 255.7  | 289.6  | 325.1  | 286.5  | 252.7  | 243.4  | 243.4  |
| 60°   | 2286.2 | 1414.2 | 368.2  | 215.7  | 221.8  | 257.3  | 292.7  | 255.7  | 224.9  | 224.9  | 229.5  |
| 62.5° | 1041.4 | 588.5  | 223.4  | 183.3  | 191.0  | 221.8  | 260.4  | 231.1  | 214.1  | 231.1  | 234.2  |
| 65°   | 354.3  | 254.2  | 161.8  | 146.4  | 151.0  | 183.3  | 223.4  | 234.2  | 232.6  | 243.4  | 249.6  |
| 67.5° | 198.7  | 163.3  | 135.6  | 121.7  | 118.6  | 135.6  | 183.3  | 234.2  | 224.9  | 220.3  | 223.4  |
| 70°   | 167.9  | 138.7  | 120.2  | 107.8  | 103.2  | 109.4  | 141.7  | 177.2  | 158.7  | 154.1  | 151.0  |
| 72.5° | 135.6  | 115.5  | 104.8  | 97.1   | 83.2   | 70.9   | 64.7   | 67.8   | 75.5   | 80.1   | 87.8   |
| 75°   | 95.5   | 87.8   | 87.8   | 78.6   | 60.1   | 44.7   | 35.4   | 29.3   | 20.0   | 13.9   | 15.4   |
| 77.5° | 53.9   | 53.9   | 55.5   | 47.8   | 38.5   | 29.3   | 21.6   | 15.4   | 7.7    | 3.1    | 1.5    |
| 80°   | 37.0   | 40.1   | 43.1   | 38.5   | 32.4   | 26.2   | 18.5   | 10.8   | 4.6    | 0.0    | 0.0    |
| 82.5° | 37.0   | 41.6   | 44.7   | 38.5   | 32.4   | 24.6   | 18.5   | 10.8   | 4.6    | 1.5    | 0.0    |
| 85°   | 7.7    | 9.2    | 10.8   | 12.3   | 18.5   | 18.5   | 13.9   | 9.2    | 4.6    | 1.5    | 0.0    |
| 87.5° | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 1.5    | 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)