

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: P526694

Luminaire Tested: **GALN-SA1C-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526694  
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-830-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 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: 5101 lumens  
Efficiency: N/A  
Efficacy: 89.5 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



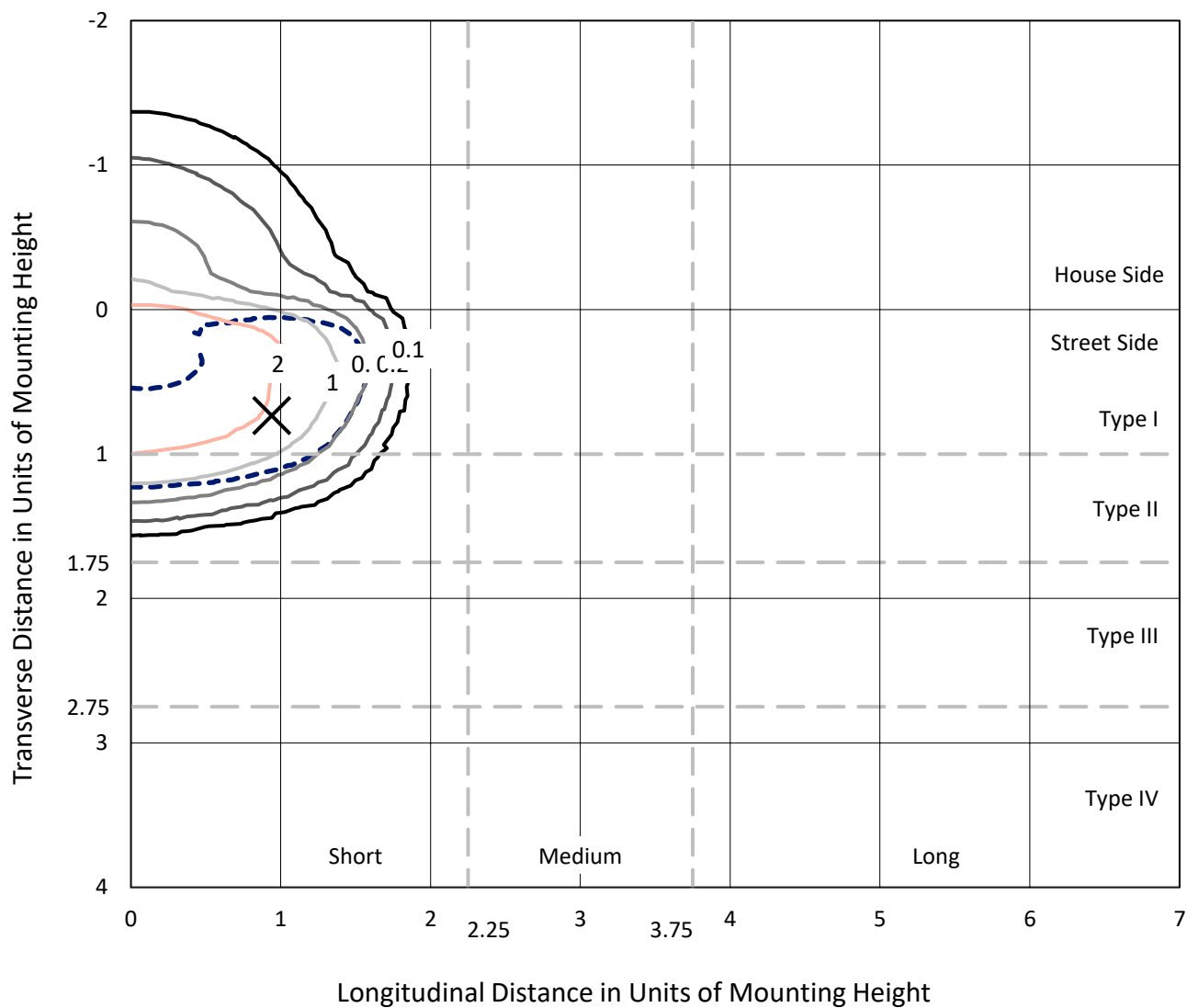
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

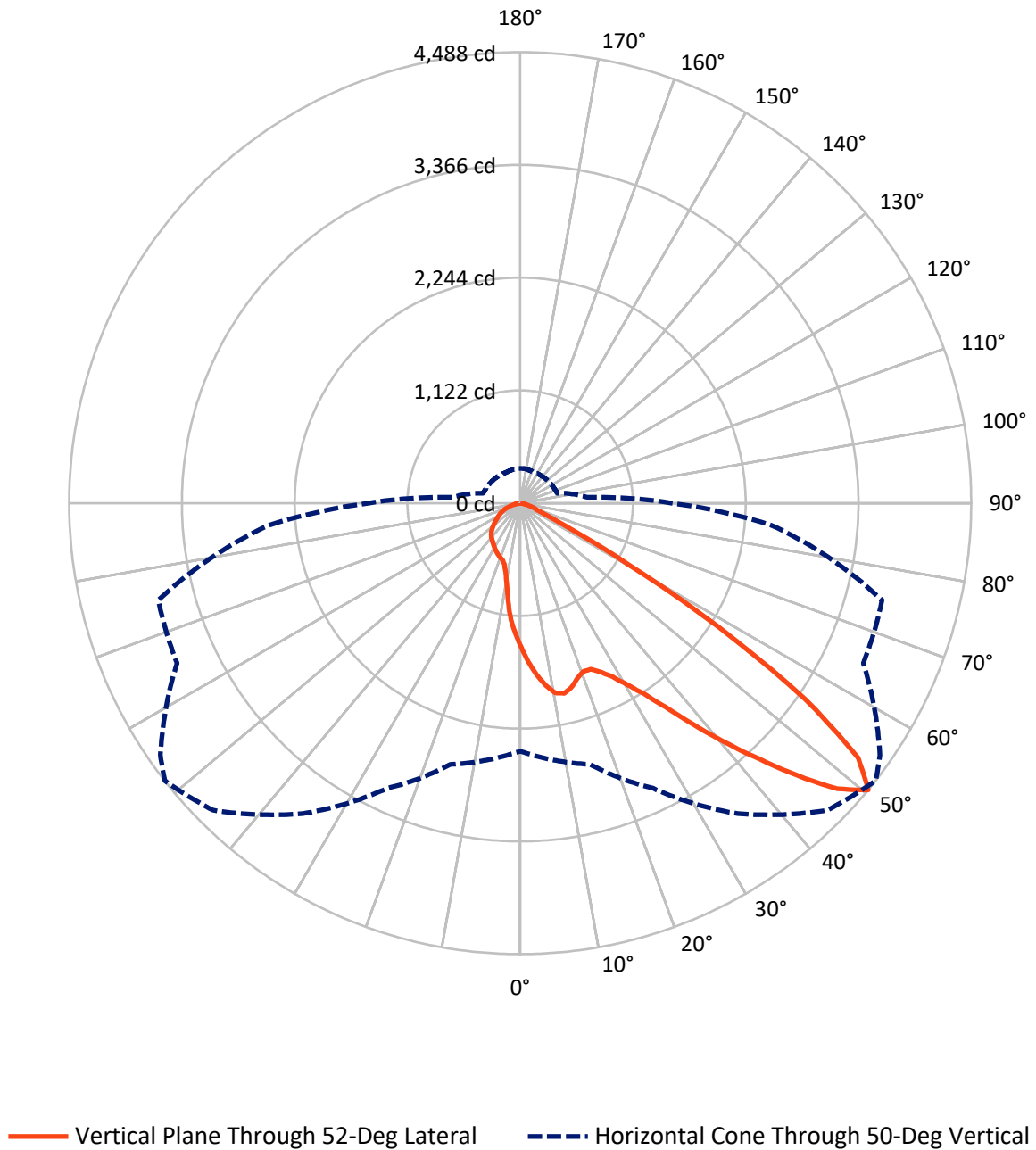
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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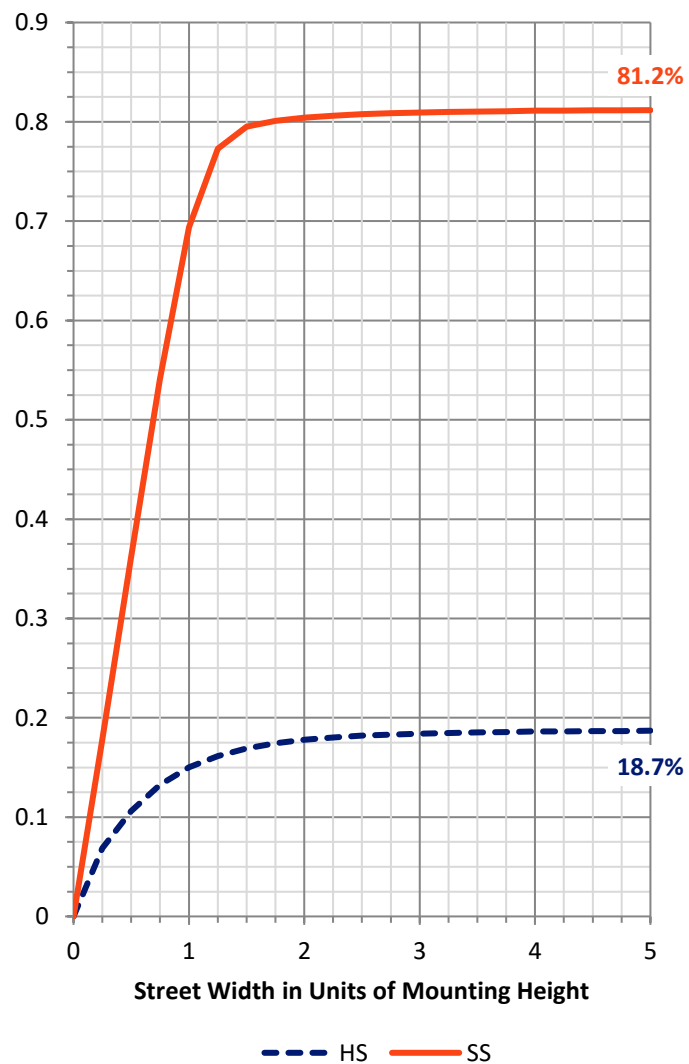
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 958.9    | 0.0    | 958.9  |
|                    | % Fixture | 18.8     | 0.0    | 18.8   |
| <b>Street Side</b> | Lumens    | 4142.1   | 0.0    | 4142.1 |
|                    | % Fixture | 81.2     | 0.0    | 81.2   |
| <b>Total</b>       | Lumens    | 5101.0   | 0.0    | 5101.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 132.5  | 2.6       |
| 10°-20°   | 355.2  | 7.0       |
| 20°-30°   | 598.3  | 11.7      |
| 30°-40°   | 1004.1 | 19.7      |
| 40°-50°   | 1536.0 | 30.1      |
| 50°-60°   | 1119.8 | 22.0      |
| 60°-70°   | 249.2  | 4.9       |
| 70°-80°   | 89.9   | 1.8       |
| 80°-90°   | 15.9   | 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°    | 5101.0 | 100.0     |
| 0°-180°   | 5101.0 | 100.0     |

**Coefficient of Utilization**



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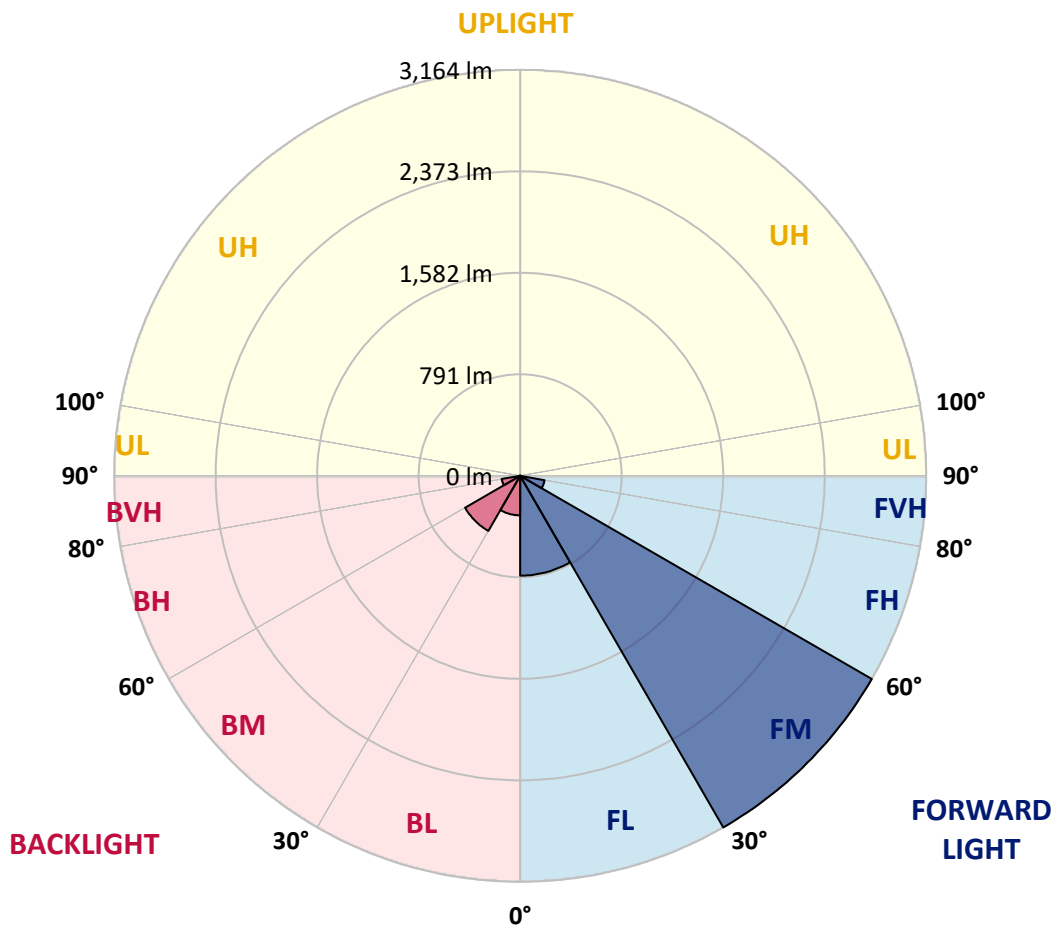
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 778.1  | 15.3      |                         |      |        |
| FM   | (30°-60°)   | 3163.9 | 62.0      |                         |      |        |
| FH   | (60°-80°)   | 193.0  | 3.8       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 7.1    | 0.1       |                         |      | G0/10  |
| BL   | (0°-30°)    | 308.0  | 6.0       | B1/500                  |      |        |
| BM   | (30°-60°)   | 496.0  | 9.7       | B1/1000                 |      |        |
| BH   | (60°-80°)   | 146.1  | 2.9       | B1/500                  |      | G1/500 |
| BVH  | (80°-90°)   | 8.8    | 0.2       |                         |      | G0/10  |
| 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°    | 1437.9 | 1437.9 | 1437.9 | 1437.9 | 1437.9 | 1437.9 | 1437.9 | 1437.9 | 1437.9 | 1437.9 | 1437.9 |
| 2.5°  | 1693.0 | 1660.4 | 1664.1 | 1640.8 | 1615.5 | 1608.2 | 1582.4 | 1557.8 | 1539.3 | 1500.0 | 1463.7 |
| 5°    | 1850.4 | 1840.5 | 1825.8 | 1807.3 | 1788.3 | 1741.6 | 1715.1 | 1684.4 | 1616.8 | 1555.9 | 1495.7 |
| 7.5°  | 1873.1 | 1871.3 | 1879.3 | 1879.3 | 1886.0 | 1868.2 | 1830.7 | 1809.2 | 1737.3 | 1638.3 | 1526.4 |
| 10°   | 1713.3 | 1718.8 | 1757.6 | 1808.0 | 1878.0 | 1926.6 | 1920.5 | 1914.9 | 1836.2 | 1701.0 | 1562.7 |
| 12.5° | 1586.0 | 1573.7 | 1596.5 | 1639.5 | 1744.6 | 1862.1 | 1941.4 | 1942.0 | 1921.7 | 1801.2 | 1589.1 |
| 15°   | 1514.1 | 1522.7 | 1528.9 | 1549.2 | 1628.5 | 1764.3 | 1903.9 | 1945.1 | 2034.2 | 1871.9 | 1630.9 |
| 17.5° | 1560.2 | 1531.3 | 1530.1 | 1535.0 | 1575.6 | 1677.6 | 1834.4 | 1905.1 | 2095.7 | 1962.9 | 1682.6 |
| 20°   | 1620.5 | 1619.9 | 1602.6 | 1596.5 | 1595.9 | 1686.9 | 1788.9 | 1884.8 | 2128.2 | 2080.9 | 1734.8 |
| 22.5° | 1726.2 | 1726.2 | 1697.9 | 1684.4 | 1655.5 | 1729.9 | 1795.1 | 1860.2 | 2182.3 | 2162.1 | 1760.0 |
| 25°   | 1903.2 | 1874.4 | 1825.8 | 1792.6 | 1776.0 | 1802.4 | 1860.2 | 1918.6 | 2229.7 | 2248.1 | 1812.3 |
| 27.5° | 2066.8 | 2021.3 | 1997.3 | 1940.1 | 1918.0 | 1902.6 | 1955.5 | 2014.5 | 2285.0 | 2382.1 | 1840.5 |
| 30°   | 2252.4 | 2244.4 | 2201.4 | 2127.6 | 2072.9 | 2044.6 | 2093.2 | 2151.6 | 2386.4 | 2519.2 | 1905.7 |
| 32.5° | 2584.4 | 2511.8 | 2453.4 | 2363.1 | 2273.9 | 2213.7 | 2261.6 | 2300.4 | 2554.9 | 2662.5 | 1977.0 |
| 35°   | 2942.8 | 2919.4 | 2818.6 | 2655.7 | 2519.2 | 2465.1 | 2493.4 | 2522.3 | 2751.0 | 2881.3 | 2096.9 |
| 37.5° | 3295.0 | 3263.1 | 3180.1 | 3043.0 | 2877.0 | 2767.0 | 2787.3 | 2821.1 | 2971.1 | 3176.4 | 2243.2 |
| 40°   | 3548.3 | 3509.0 | 3467.2 | 3446.9 | 3282.1 | 3131.5 | 3119.8 | 3128.4 | 3268.6 | 3453.0 | 2405.5 |
| 42.5° | 3566.7 | 3615.3 | 3628.2 | 3710.0 | 3671.3 | 3547.7 | 3475.8 | 3477.6 | 3552.6 | 3726.6 | 2569.6 |
| 45°   | 3528.0 | 3483.1 | 3578.4 | 3801.6 | 3929.4 | 3987.2 | 3866.1 | 3850.8 | 3728.4 | 3885.2 | 2651.4 |
| 47.5° | 3121.7 | 3134.0 | 3295.0 | 3647.9 | 4017.4 | 4275.5 | 4247.3 | 4196.2 | 3822.5 | 3879.7 | 2638.5 |
| 50°   | 2467.6 | 2542.0 | 2691.4 | 3130.9 | 3771.5 | 4321.0 | 4487.6 | 4369.6 | 3766.5 | 3727.2 | 2506.9 |
| 52.5° | 1643.2 | 1673.9 | 1772.3 | 2339.7 | 3032.5 | 3862.4 | 4211.0 | 4238.0 | 3714.9 | 3527.4 | 2340.3 |
| 55°   | 731.5  | 729.1  | 867.4  | 1222.1 | 1902.6 | 2939.1 | 3440.7 | 3605.5 | 3516.3 | 3323.9 | 2178.0 |
| 57.5° | 309.8  | 320.3  | 376.8  | 528.1  | 935.6  | 1773.5 | 2331.1 | 2475.6 | 2704.3 | 2729.5 | 1670.9 |
| 60°   | 209.6  | 210.9  | 226.2  | 264.3  | 391.6  | 833.0  | 1222.7 | 1396.1 | 1559.6 | 1548.5 | 886.5  |
| 62.5° | 164.8  | 169.1  | 180.7  | 196.1  | 232.4  | 378.1  | 547.1  | 643.6  | 654.1  | 550.2  | 336.3  |
| 65°   | 140.8  | 141.4  | 153.1  | 166.0  | 182.0  | 220.1  | 263.7  | 268.6  | 271.7  | 261.9  | 247.1  |
| 67.5° | 116.2  | 117.4  | 126.6  | 141.4  | 156.1  | 168.4  | 180.7  | 186.9  | 201.0  | 228.7  | 225.0  |
| 70°   | 92.2   | 94.1   | 102.0  | 114.3  | 127.9  | 135.2  | 150.6  | 156.1  | 169.1  | 190.6  | 199.2  |
| 72.5° | 70.1   | 70.7   | 77.5   | 86.1   | 98.4   | 105.7  | 118.6  | 124.8  | 133.4  | 151.8  | 159.8  |
| 75°   | 50.4   | 52.3   | 57.2   | 61.5   | 63.3   | 68.2   | 80.5   | 87.3   | 99.6   | 107.6  | 108.2  |
| 77.5° | 26.4   | 27.7   | 28.9   | 28.9   | 35.0   | 44.3   | 52.3   | 55.9   | 64.5   | 70.7   | 67.6   |
| 80°   | 10.5   | 11.1   | 14.1   | 19.1   | 24.6   | 32.0   | 37.5   | 39.3   | 46.7   | 50.4   | 52.3   |
| 82.5° | 6.1    | 6.8    | 9.2    | 13.5   | 17.8   | 22.7   | 27.0   | 28.9   | 33.8   | 38.1   | 39.3   |
| 85°   | 3.1    | 3.7    | 5.5    | 8.6    | 11.7   | 14.1   | 13.5   | 12.9   | 12.9   | 12.3   | 12.9   |
| 87.5° | 1.2    | 1.2    | 1.8    | 1.8    | 1.8    | 2.5    | 3.1    | 3.1    | 3.1    | 3.7    | 3.7    |
| 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°    | 1437.9 | 1437.9 | 1437.9 | 1437.9 | 1437.9 | 1437.9 | 1437.9 | 1437.9 | 1437.9 | 1437.9 | 1437.9 |
| 2.5°  | 1439.7 | 1415.1 | 1392.4 | 1350.6 | 1305.1 | 1292.2 | 1239.3 | 1220.3 | 1206.7 | 1190.8 | 1185.8 |
| 5°    | 1447.1 | 1414.5 | 1341.4 | 1257.2 | 1190.1 | 1104.1 | 1047.5 | 986.7  | 942.4  | 931.3  | 928.3  |
| 7.5°  | 1462.5 | 1406.5 | 1280.5 | 1153.3 | 1016.2 | 899.4  | 810.2  | 762.3  | 719.9  | 717.4  | 713.1  |
| 10°   | 1479.7 | 1382.6 | 1214.1 | 1014.3 | 839.1  | 730.9  | 677.4  | 656.5  | 646.1  | 643.6  | 642.4  |
| 12.5° | 1493.8 | 1377.6 | 1139.7 | 879.1  | 713.7  | 648.6  | 632.6  | 630.7  | 635.0  | 636.3  | 638.7  |
| 15°   | 1500.0 | 1358.0 | 1050.0 | 758.0  | 635.6  | 611.7  | 618.4  | 625.8  | 628.9  | 636.9  | 630.7  |
| 17.5° | 1511.7 | 1332.8 | 939.3  | 662.1  | 592.0  | 596.3  | 608.0  | 616.6  | 621.5  | 627.0  | 619.0  |
| 20°   | 1517.8 | 1310.0 | 835.4  | 604.9  | 576.6  | 584.6  | 600.6  | 607.4  | 613.5  | 616.0  | 606.8  |
| 22.5° | 1512.3 | 1263.3 | 743.8  | 558.8  | 561.9  | 572.3  | 586.5  | 593.8  | 590.2  | 580.3  | 574.8  |
| 25°   | 1497.5 | 1197.5 | 648.6  | 529.3  | 541.0  | 559.4  | 570.5  | 565.0  | 558.2  | 552.7  | 550.8  |
| 27.5° | 1496.9 | 1117.0 | 579.7  | 502.2  | 523.1  | 548.4  | 544.7  | 539.7  | 542.8  | 538.5  | 533.6  |
| 30°   | 1500.0 | 1038.9 | 523.1  | 486.9  | 510.2  | 522.5  | 526.8  | 521.9  | 525.6  | 517.6  | 520.1  |
| 32.5° | 1484.0 | 962.7  | 486.3  | 469.1  | 494.9  | 494.3  | 508.4  | 512.1  | 503.5  | 486.9  | 489.3  |
| 35°   | 1490.8 | 901.2  | 454.9  | 461.1  | 477.7  | 477.7  | 488.7  | 484.4  | 461.7  | 451.8  | 454.3  |
| 37.5° | 1537.5 | 841.0  | 439.5  | 450.0  | 461.1  | 466.0  | 462.3  | 443.8  | 438.3  | 438.3  | 439.5  |
| 40°   | 1581.7 | 789.3  | 430.3  | 447.5  | 445.7  | 448.8  | 421.7  | 423.6  | 423.6  | 424.2  | 421.1  |
| 42.5° | 1621.1 | 754.3  | 422.9  | 432.8  | 435.9  | 419.9  | 403.3  | 401.4  | 405.7  | 405.1  | 402.7  |
| 45°   | 1635.2 | 725.4  | 412.5  | 416.2  | 418.6  | 392.2  | 384.2  | 380.5  | 385.4  | 387.3  | 389.7  |
| 47.5° | 1581.1 | 701.4  | 400.8  | 393.4  | 388.5  | 371.3  | 360.9  | 354.1  | 360.2  | 370.7  | 373.1  |
| 50°   | 1511.7 | 670.1  | 382.4  | 368.2  | 357.8  | 350.4  | 343.0  | 336.3  | 340.6  | 347.9  | 346.1  |
| 52.5° | 1409.0 | 620.9  | 359.0  | 344.3  | 326.4  | 328.3  | 321.5  | 317.8  | 320.3  | 320.3  | 318.4  |
| 55°   | 1262.7 | 510.2  | 319.7  | 309.2  | 294.5  | 299.4  | 300.6  | 295.7  | 290.8  | 295.1  | 291.4  |
| 57.5° | 861.9  | 360.2  | 285.2  | 285.2  | 270.5  | 277.2  | 276.6  | 265.0  | 253.3  | 254.5  | 252.0  |
| 60°   | 498.6  | 287.1  | 263.1  | 260.7  | 245.3  | 250.8  | 252.0  | 244.1  | 226.2  | 227.5  | 225.0  |
| 62.5° | 283.4  | 245.3  | 229.9  | 226.2  | 223.2  | 228.1  | 228.1  | 217.6  | 202.3  | 203.5  | 201.0  |
| 65°   | 241.0  | 227.5  | 205.3  | 204.7  | 203.5  | 204.7  | 199.8  | 188.7  | 175.2  | 169.7  | 170.3  |
| 67.5° | 218.8  | 210.2  | 188.7  | 183.2  | 179.5  | 178.9  | 169.7  | 159.2  | 153.1  | 148.2  | 147.5  |
| 70°   | 191.8  | 185.0  | 169.1  | 161.7  | 158.0  | 149.4  | 140.2  | 133.4  | 124.8  | 122.3  | 124.8  |
| 72.5° | 151.8  | 151.2  | 145.1  | 137.1  | 129.1  | 122.3  | 114.3  | 105.1  | 97.1   | 95.3   | 91.0   |
| 75°   | 105.1  | 106.4  | 107.6  | 106.4  | 99.6   | 91.0   | 81.8   | 74.4   | 64.5   | 59.0   | 57.8   |
| 77.5° | 68.9   | 70.7   | 72.5   | 70.1   | 65.8   | 57.8   | 51.6   | 42.4   | 35.0   | 30.7   | 30.1   |
| 80°   | 50.4   | 52.9   | 54.1   | 52.3   | 47.3   | 41.2   | 34.4   | 27.0   | 21.5   | 17.8   | 17.8   |
| 82.5° | 38.7   | 41.2   | 42.4   | 39.3   | 34.4   | 29.5   | 24.6   | 19.1   | 14.8   | 11.7   | 11.1   |
| 85°   | 13.5   | 12.9   | 15.4   | 16.0   | 19.1   | 17.8   | 14.8   | 11.1   | 8.6    | 6.1    | 5.5    |
| 87.5° | 3.7    | 3.7    | 4.3    | 4.3    | 3.7    | 3.1    | 3.1    | 3.1    | 2.5    | 1.8    | 1.8    |
| 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)