

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: P938988

Luminaire Tested: **GALN-SB1B-840-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938988  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1B-840-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

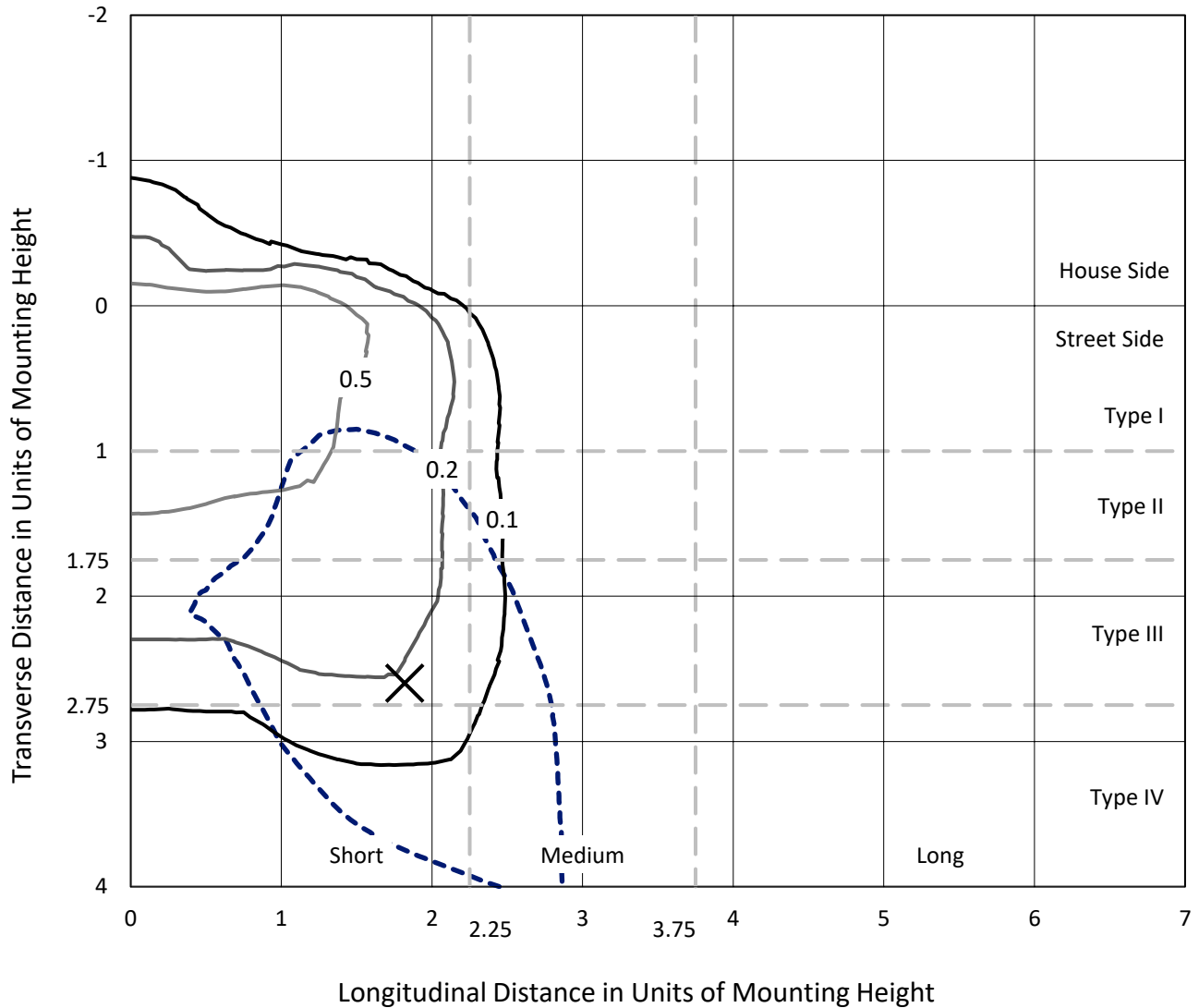
Lumens per Lamp: N/A  
Luminaire Lumens: 4079 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

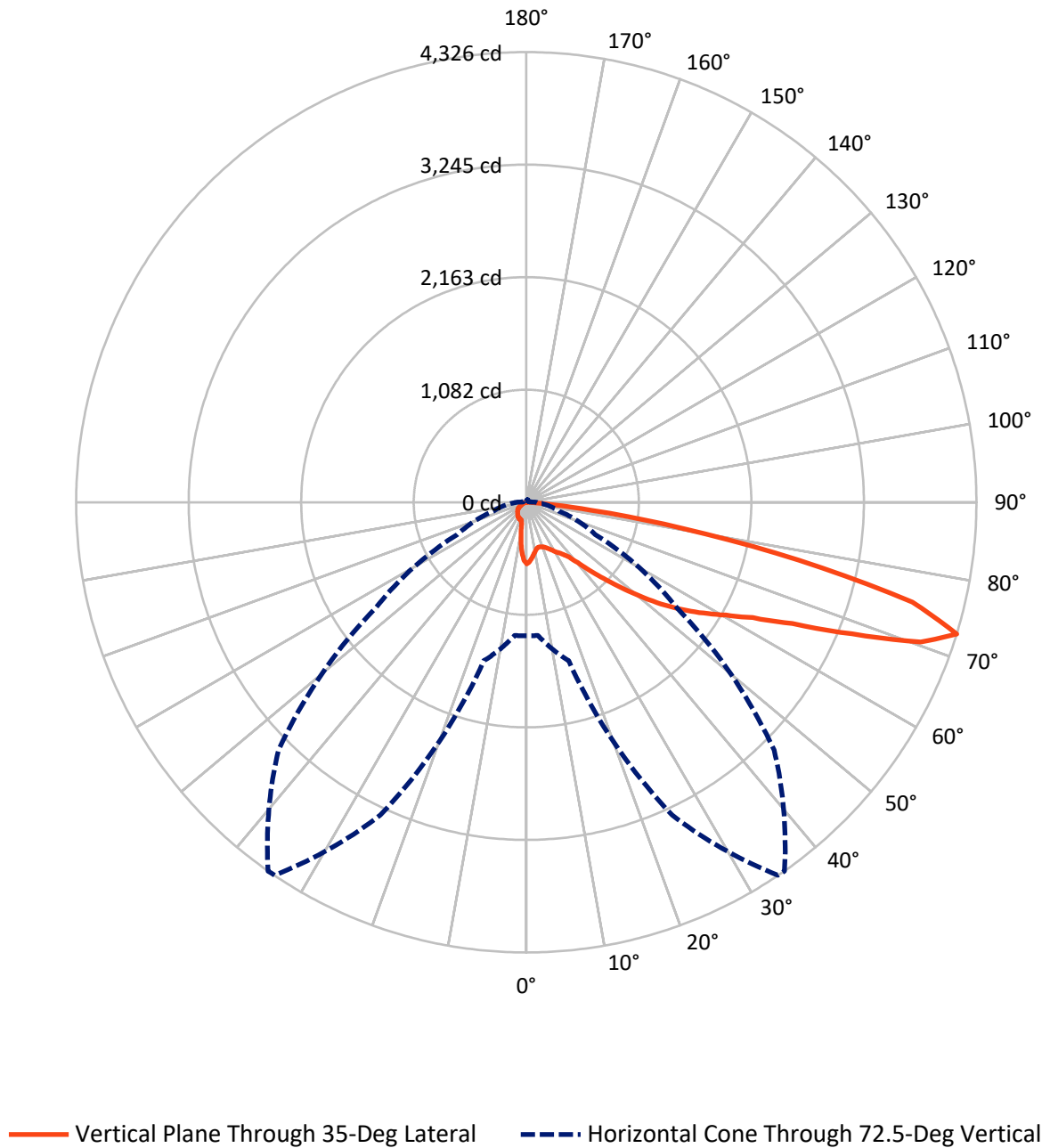
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type IV - 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    | 459.1    | 0.0    | 459.1  |
|                    | % Fixture | 11.3     | 0.0    | 11.3   |
| <b>Street Side</b> | Lumens    | 3619.9   | 0.0    | 3619.9 |
|                    | % Fixture | 88.7     | 0.0    | 88.7   |
| <b>Total</b>       | Lumens    | 4079.0   | 0.0    | 4079.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 48.6   | 1.2       |
| 10°-20°   | 113.6  | 2.8       |
| 20°-30°   | 184.6  | 4.5       |
| 30°-40°   | 308.0  | 7.6       |
| 40°-50°   | 582.8  | 14.3      |
| 50°-60°   | 926.1  | 22.7      |
| 60°-70°   | 1145.6 | 28.1      |
| 70°-80°   | 712.1  | 17.5      |
| 80°-90°   | 57.6   | 1.4       |
| 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°    | 4079.0 | 100.0     |
| 0°-180°   | 4079.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P938988

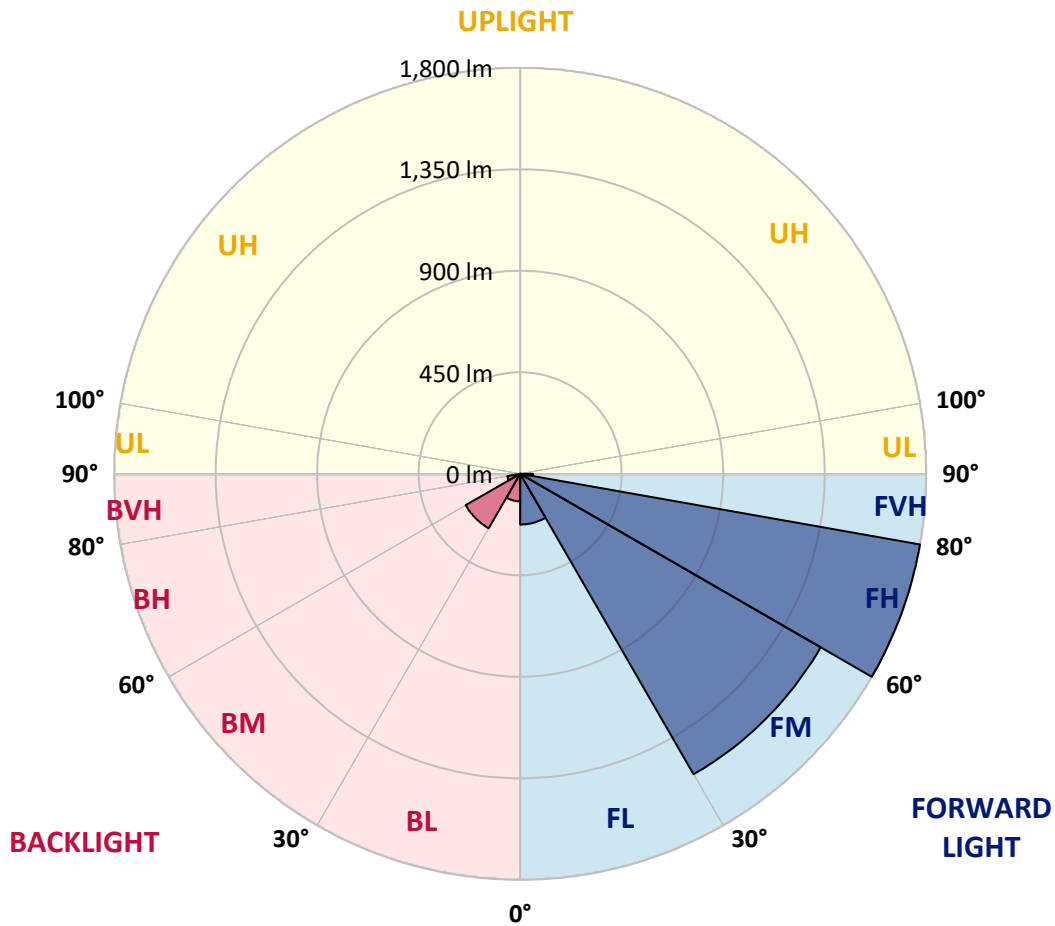
CATALOG NUMBER: GALN-SB1B-840-U-T4FT-HSS

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

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 224.9  | 5.5       |                         |      |         |
| FM (30°-60°)   | 1538.2 | 37.7      |                         |      |         |
| FH (60°-80°)   | 1800.1 | 44.1      |                         |      | G2/5000 |
| FVH (80°-90°)  | 56.8   | 1.4       |                         |      | G1/100  |
| BL (0°-30°)    | 122.0  | 3.0       | B1/500                  |      |         |
| BM (30°-60°)   | 278.7  | 6.8       | B1/1000                 |      |         |
| BH (60°-80°)   | 57.6   | 1.4       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.8    | 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-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 34°    | 35°    | 45°    | 55°    | 65°    | 75°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 591.2  | 591.2  | 591.2  | 591.2  | 591.2  | 591.2  | 591.2  | 591.2  | 591.2  | 591.2  |
| 2.5°  | 564.9  | 569.7  | 570.6  | 572.1  | 572.1  | 573.8  | 576.8  | 581.0  | 587.9  | 591.5  |
| 5°    | 520.6  | 524.2  | 528.7  | 532.3  | 539.2  | 540.1  | 551.7  | 563.1  | 578.9  | 590.9  |
| 7.5°  | 476.1  | 480.3  | 486.3  | 494.9  | 503.9  | 506.6  | 524.2  | 543.4  | 568.5  | 590.9  |
| 10°   | 444.7  | 445.0  | 450.4  | 459.1  | 473.4  | 476.7  | 498.2  | 525.4  | 556.8  | 587.3  |
| 12.5° | 427.1  | 429.2  | 431.6  | 438.2  | 451.9  | 454.0  | 477.0  | 509.0  | 545.2  | 585.2  |
| 15°   | 427.1  | 428.6  | 430.1  | 433.4  | 444.4  | 446.2  | 466.6  | 498.5  | 539.2  | 586.1  |
| 17.5° | 431.6  | 434.0  | 432.8  | 436.7  | 448.3  | 449.5  | 467.4  | 495.5  | 538.9  | 591.8  |
| 20°   | 442.3  | 444.1  | 441.7  | 444.1  | 455.8  | 458.2  | 476.7  | 501.2  | 544.0  | 601.6  |
| 22.5° | 459.4  | 460.3  | 454.6  | 456.4  | 468.3  | 471.3  | 492.9  | 517.4  | 556.2  | 617.5  |
| 25°   | 480.9  | 482.7  | 474.0  | 476.1  | 487.5  | 491.1  | 515.9  | 541.6  | 575.6  | 639.3  |
| 27.5° | 505.7  | 506.6  | 499.1  | 498.8  | 513.5  | 518.6  | 543.7  | 571.5  | 601.6  | 666.8  |
| 30°   | 534.1  | 536.8  | 529.6  | 528.4  | 546.9  | 551.1  | 575.9  | 608.2  | 639.9  | 708.0  |
| 32.5° | 556.5  | 558.6  | 554.4  | 557.4  | 576.2  | 579.5  | 615.1  | 660.2  | 700.0  | 766.6  |
| 35°   | 588.8  | 590.0  | 580.4  | 585.8  | 607.3  | 615.7  | 668.6  | 733.2  | 775.6  | 840.2  |
| 37.5° | 705.7  | 705.7  | 665.0  | 638.4  | 659.0  | 666.5  | 741.8  | 824.9  | 868.8  | 938.8  |
| 40°   | 867.3  | 864.7  | 805.2  | 750.8  | 748.1  | 762.7  | 846.1  | 940.6  | 989.3  | 1057.1 |
| 42.5° | 1039.8 | 1035.6 | 954.6  | 900.8  | 891.9  | 896.9  | 966.6  | 1083.1 | 1132.8 | 1201.5 |
| 45°   | 1192.8 | 1191.6 | 1117.5 | 1045.2 | 1029.0 | 1045.2 | 1116.9 | 1249.9 | 1285.5 | 1357.8 |
| 47.5° | 1321.0 | 1321.0 | 1267.0 | 1219.7 | 1211.4 | 1220.9 | 1320.5 | 1434.9 | 1431.6 | 1524.3 |
| 50°   | 1468.7 | 1467.5 | 1416.1 | 1395.8 | 1404.4 | 1417.9 | 1554.8 | 1629.8 | 1582.9 | 1687.8 |
| 52.5° | 1572.1 | 1579.3 | 1561.6 | 1558.4 | 1602.6 | 1625.9 | 1792.7 | 1820.5 | 1718.3 | 1842.9 |
| 55°   | 1654.0 | 1662.4 | 1682.7 | 1705.7 | 1790.9 | 1821.4 | 2023.1 | 2001.3 | 1831.5 | 1977.4 |
| 57.5° | 1770.0 | 1758.0 | 1789.4 | 1834.8 | 1972.6 | 2009.4 | 2246.4 | 2172.0 | 1922.7 | 2086.5 |
| 60°   | 1910.7 | 1912.5 | 1917.9 | 1975.3 | 2154.0 | 2201.2 | 2466.4 | 2333.4 | 1981.3 | 2153.4 |
| 62.5° | 2079.9 | 2082.6 | 2093.7 | 2181.8 | 2397.6 | 2442.1 | 2700.7 | 2465.5 | 2008.2 | 2134.6 |
| 65°   | 2068.2 | 2079.6 | 2203.0 | 2504.6 | 2767.9 | 2811.9 | 2974.2 | 2558.1 | 1967.5 | 1962.4 |
| 67.5° | 1884.1 | 1902.7 | 2109.2 | 2890.2 | 3326.2 | 3375.2 | 3304.7 | 2576.3 | 1792.1 | 1526.1 |
| 70°   | 1642.6 | 1649.2 | 1897.6 | 3236.9 | 3972.7 | 4022.3 | 3600.6 | 2375.8 | 1359.9 | 851.2  |
| 72.5° | 1282.8 | 1284.3 | 1575.7 | 3317.3 | 4323.6 | 4326.3 | 3368.4 | 1763.7 | 731.4  | 327.0  |
| 75°   | 916.4  | 907.4  | 1055.3 | 2690.2 | 3803.8 | 3834.3 | 2525.2 | 827.3  | 279.5  | 154.5  |
| 77.5° | 491.4  | 501.2  | 597.2  | 1595.4 | 2627.7 | 2679.8 | 1377.8 | 238.5  | 142.3  | 105.2  |
| 80°   | 151.8  | 160.2  | 244.8  | 730.5  | 1488.4 | 1519.8 | 510.8  | 106.1  | 99.2   | 75.0   |
| 82.5° | 47.8   | 49.6   | 114.2  | 306.9  | 617.8  | 632.1  | 147.9  | 60.1   | 67.8   | 49.6   |
| 85°   | 13.7   | 14.0   | 50.8   | 114.5  | 152.7  | 155.7  | 41.5   | 23.3   | 38.9   | 30.8   |
| 87.5° | 1.5    | 4.8    | 19.1   | 19.1   | 13.4   | 13.2   | 4.5    | 5.1    | 11.1   | 3.9    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

REPORT NUMBER: P938988  
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**CANDELA DISTRIBUTION (continued):**

| 85°    |       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  |
|--------|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 591.2  | 0°    | 591.2  | 591.2  | 591.2 | 591.2 | 591.2 | 591.2 | 591.2 | 591.2 | 591.2 | 591.2 |
| 593.9  | 2.5°  | 592.4  | 592.7  | 588.8 | 582.2 | 575.0 | 569.1 | 561.6 | 555.6 | 551.4 | 550.2 |
| 599.3  | 5°    | 596.6  | 594.5  | 583.4 | 563.4 | 539.5 | 518.9 | 495.8 | 477.6 | 465.7 | 460.6 |
| 604.9  | 7.5°  | 602.8  | 596.9  | 572.7 | 533.2 | 487.5 | 446.8 | 405.6 | 373.6 | 353.3 | 343.1 |
| 610.3  | 10°   | 608.2  | 596.3  | 554.7 | 489.6 | 419.6 | 358.1 | 302.5 | 263.9 | 242.4 | 232.2 |
| 616.6  | 12.5° | 613.3  | 596.0  | 531.4 | 437.9 | 343.1 | 267.8 | 216.1 | 197.0 | 191.0 | 188.9 |
| 626.8  | 15°   | 622.9  | 596.9  | 502.1 | 378.7 | 266.9 | 202.3 | 183.5 | 183.2 | 184.4 | 183.8 |
| 642.3  | 17.5° | 636.0  | 597.8  | 468.9 | 315.9 | 205.9 | 178.4 | 177.5 | 180.2 | 182.0 | 181.1 |
| 661.7  | 20°   | 653.1  | 601.3  | 433.7 | 253.7 | 176.9 | 172.5 | 174.5 | 176.9 | 178.4 | 176.9 |
| 687.7  | 22.5° | 677.0  | 607.6  | 395.1 | 203.8 | 167.7 | 168.9 | 170.7 | 173.4 | 174.8 | 172.8 |
| 720.9  | 25°   | 706.3  | 617.5  | 357.2 | 177.2 | 163.2 | 164.7 | 167.4 | 170.4 | 172.2 | 170.1 |
| 762.7  | 27.5° | 744.2  | 633.3  | 322.2 | 171.3 | 158.7 | 159.6 | 163.5 | 168.0 | 170.4 | 167.7 |
| 822.2  | 30°   | 799.2  | 659.3  | 292.0 | 173.9 | 156.0 | 153.9 | 159.3 | 165.6 | 168.3 | 165.9 |
| 903.2  | 32.5° | 872.1  | 696.1  | 273.5 | 178.1 | 154.8 | 147.3 | 152.4 | 160.5 | 165.0 | 163.5 |
| 1009.0 | 35°   | 967.8  | 752.0  | 266.3 | 182.9 | 153.9 | 140.5 | 144.1 | 152.7 | 160.5 | 162.0 |
| 1142.3 | 37.5° | 1083.7 | 829.7  | 268.4 | 185.0 | 151.2 | 134.8 | 136.6 | 144.1 | 154.2 | 159.0 |
| 1292.4 | 40°   | 1215.5 | 920.3  | 280.3 | 182.9 | 148.2 | 130.0 | 130.3 | 136.0 | 145.0 | 152.1 |
| 1453.8 | 42.5° | 1351.5 | 1026.1 | 302.5 | 175.1 | 145.6 | 125.8 | 124.9 | 128.8 | 134.8 | 139.9 |
| 1614.8 | 45°   | 1480.9 | 1134.8 | 324.3 | 164.4 | 142.3 | 121.6 | 119.6 | 121.0 | 122.2 | 124.3 |
| 1771.8 | 47.5° | 1593.9 | 1211.4 | 318.0 | 154.5 | 137.8 | 116.9 | 113.3 | 112.7 | 109.1 | 108.8 |
| 1911.9 | 50°   | 1671.9 | 1228.1 | 282.4 | 144.7 | 131.2 | 111.5 | 105.8 | 102.2 | 95.9  | 93.0  |
| 2016.8 | 52.5° | 1696.7 | 1162.0 | 230.7 | 134.8 | 120.4 | 104.3 | 96.2  | 90.6  | 82.8  | 80.1  |
| 2077.2 | 55°   | 1663.9 | 1032.6 | 184.4 | 122.8 | 105.5 | 94.7  | 85.8  | 78.3  | 72.0  | 68.7  |
| 2083.8 | 57.5° | 1583.5 | 867.9  | 145.9 | 108.8 | 89.7  | 84.0  | 75.0  | 67.5  | 62.2  | 58.9  |
| 2010.9 | 60°   | 1450.2 | 689.2  | 115.4 | 92.1  | 76.5  | 72.3  | 63.1  | 58.3  | 53.5  | 49.6  |
| 1822.6 | 62.5° | 1247.8 | 492.0  | 90.6  | 72.9  | 64.0  | 59.2  | 53.8  | 50.2  | 44.5  | 39.2  |
| 1483.9 | 65°   | 973.7  | 301.0  | 69.9  | 53.5  | 51.4  | 49.0  | 45.7  | 42.4  | 35.6  | 30.2  |
| 968.1  | 67.5° | 614.2  | 142.6  | 49.9  | 40.3  | 40.6  | 39.5  | 38.0  | 35.3  | 30.2  | 25.4  |
| 433.7  | 70°   | 270.5  | 69.0   | 32.9  | 30.8  | 30.2  | 30.2  | 31.4  | 30.5  | 25.7  | 21.2  |
| 150.6  | 72.5° | 92.1   | 37.1   | 24.5  | 23.3  | 21.8  | 21.5  | 26.3  | 25.4  | 20.6  | 16.4  |
| 75.0   | 75°   | 48.1   | 24.8   | 17.9  | 16.7  | 13.2  | 15.8  | 20.9  | 19.7  | 14.6  | 10.8  |
| 49.6   | 77.5° | 31.4   | 17.6   | 12.3  | 10.8  | 7.5   | 10.5  | 15.5  | 13.7  | 8.7   | 5.4   |
| 32.6   | 80°   | 19.7   | 11.7   | 7.2   | 5.1   | 3.6   | 5.7   | 8.4   | 6.0   | 3.3   | 1.2   |
| 19.1   | 82.5° | 10.5   | 6.0    | 2.7   | 1.8   | 1.5   | 1.8   | 2.1   | 1.5   | 0.6   | 0.0   |
| 9.9    | 85°   | 4.2    | 2.1    | 0.9   | 0.6   | 0.3   | 0.0   | 0.6   | 0.3   | 0.0   | 0.0   |
| 1.8    | 87.5° | 1.5    | 0.3    | 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   |

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|             |
|-------------|
| <u>180°</u> |
| 591.2       |
| 552.3       |
| 462.4       |
| 344.6       |
| 232.5       |
| 188.3       |
| 183.5       |
| 180.8       |
| 176.6       |
| 172.5       |
| 169.8       |
| 167.7       |
| 165.6       |
| 163.5       |
| 162.0       |
| 160.2       |
| 154.5       |
| 142.0       |
| 125.5       |
| 108.5       |
| 93.3        |
| 79.8        |
| 68.7        |
| 58.3        |
| 48.7        |
| 38.3        |
| 29.3        |
| 24.8        |
| 20.3        |
| 15.5        |
| 9.9         |
| 4.8         |
| 0.9         |
| 0.0         |
| 0.0         |
| 0.0         |
| 0.0         |

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