

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P629599

Luminaire Tested: GWS-SA1B-830-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629599  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1B-830-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2822.7 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

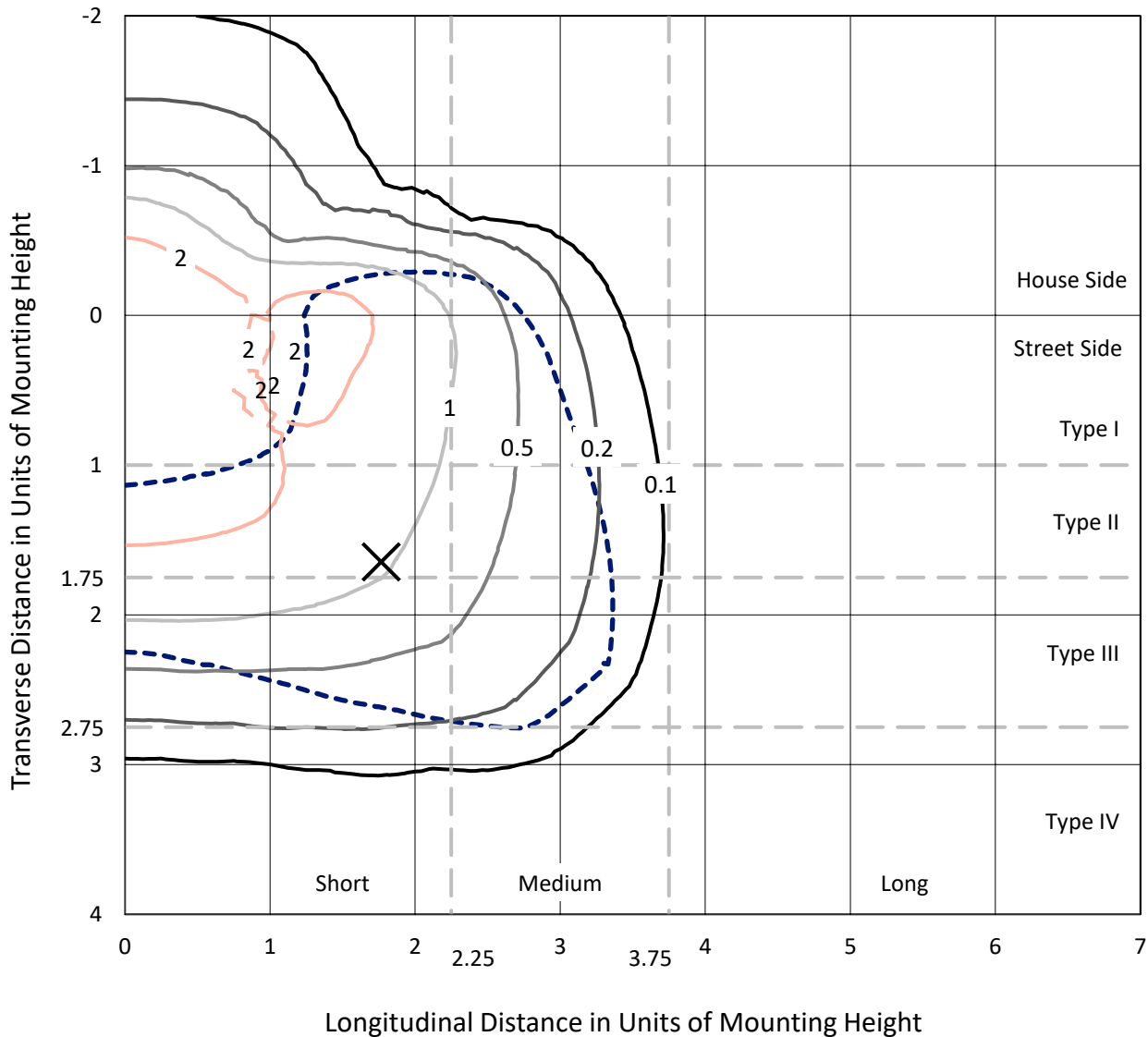
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

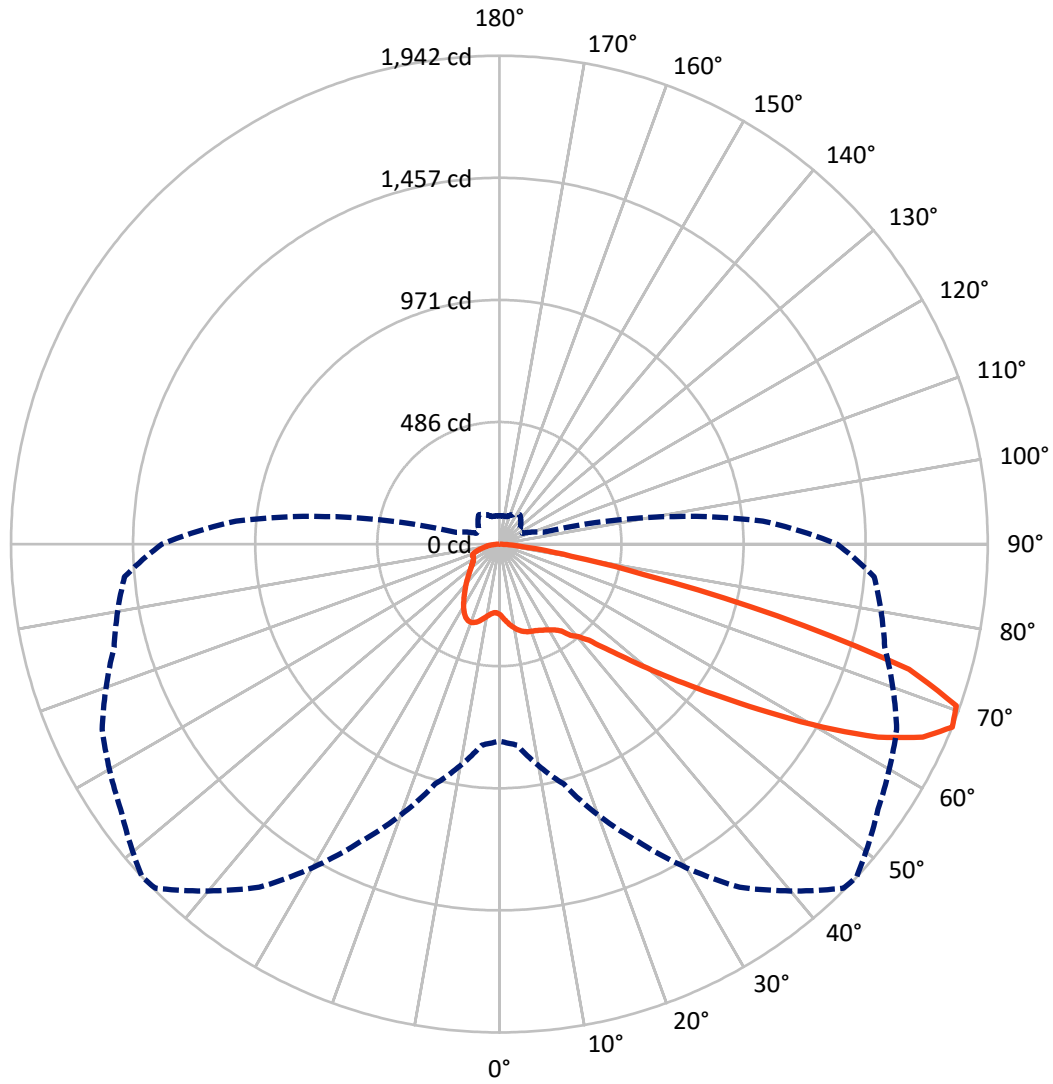
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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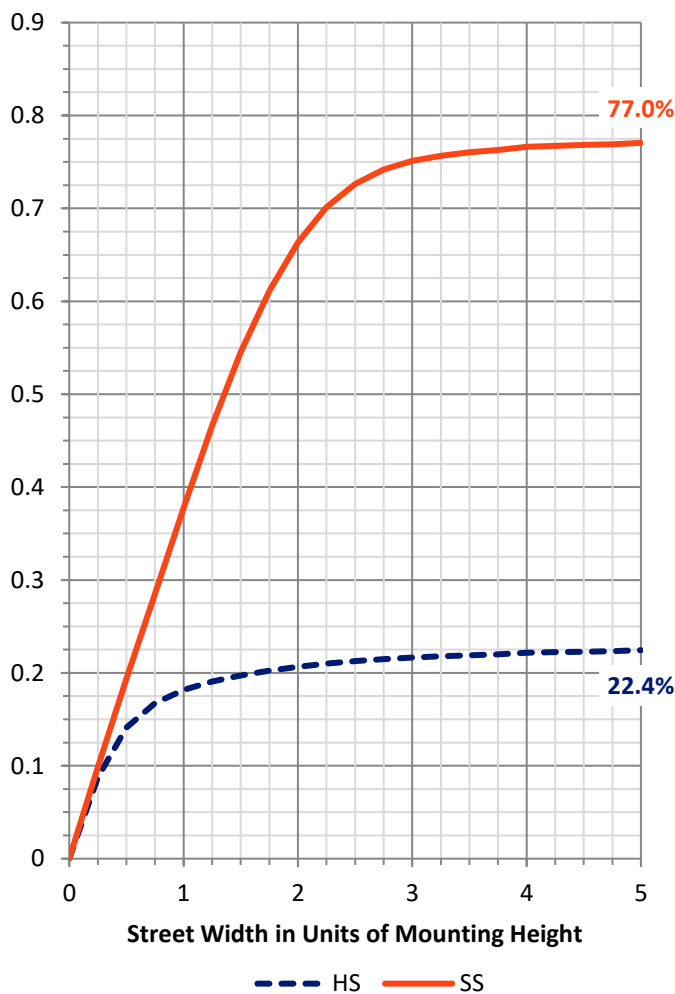
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 643.3    | 0.0    | 643.3  |
|                    | % Fixture | 22.8     | 0.0    | 22.8   |
| <b>Street Side</b> | Lumens    | 2179.4   | 0.0    | 2179.4 |
|                    | % Fixture | 77.2     | 0.0    | 77.2   |
| <b>Total</b>       | Lumens    | 2822.7   | 0.0    | 2822.7 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 28.6   | 1.0       |
| 10°-20°   | 95.3   | 3.4       |
| 20°-30°   | 161.9  | 5.7       |
| 30°-40°   | 237.2  | 8.4       |
| 40°-50°   | 361.5  | 12.8      |
| 50°-60°   | 646.7  | 22.9      |
| 60°-70°   | 863.0  | 30.6      |
| 70°-80°   | 390.3  | 13.8      |
| 80°-90°   | 38.2   | 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°    | 2822.7 | 100.0     |
| 0°-180°   | 2822.7 | 100.0     |

**Coefficient of Utilization**



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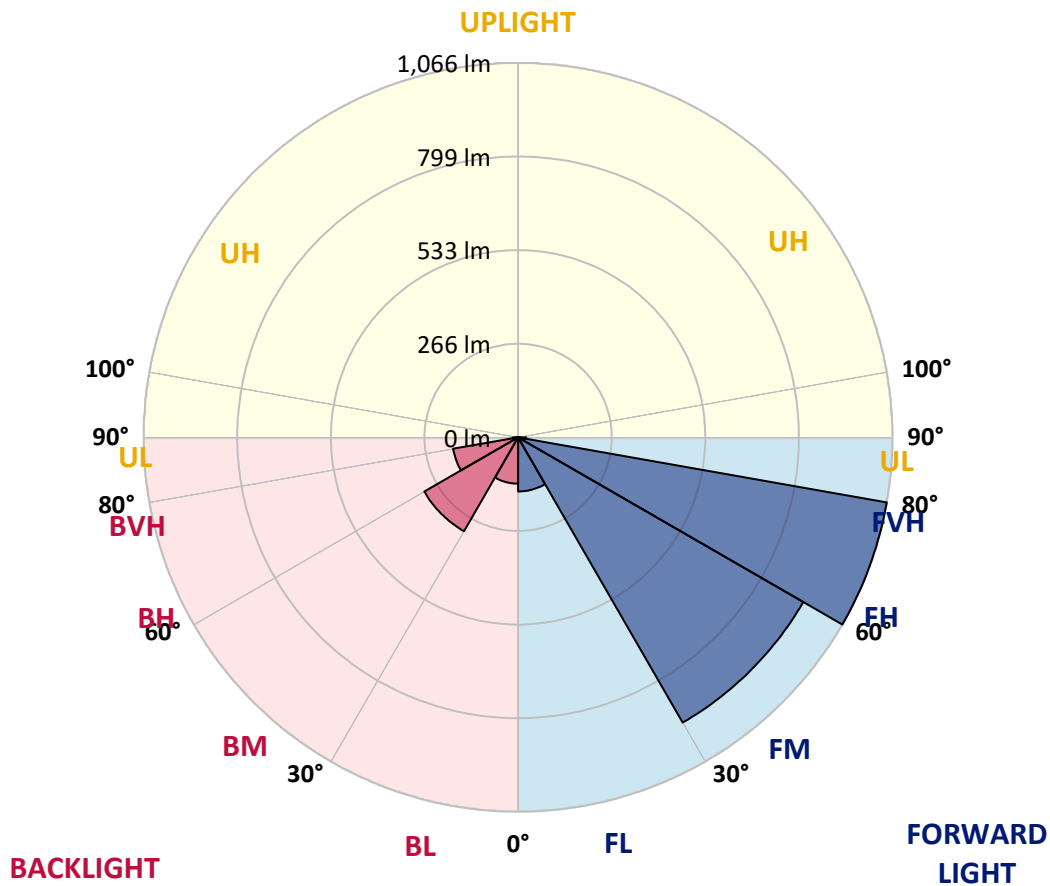
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 153.9  | 5.5       |                         |      |         |
| FM (30°-60°)   | 937.2  | 33.2      |                         |      |         |
| FH (60°-80°)   | 1065.5 | 37.7      |                         |      | G1/1800 |
| FVH (80°-90°)  | 22.7   | 0.8       |                         |      | G1/100  |
| BL (0°-30°)    | 131.9  | 4.7       | B1/500                  |      |         |
| BM (30°-60°)   | 308.2  | 10.9      | B1/1000                 |      |         |
| BH (60°-80°)   | 187.7  | 6.6       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 15.5   | 0.5       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 47°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 279.8  | 279.8  | 279.8  | 279.8  | 279.8  | 279.8  | 279.8  | 279.8  | 279.8  | 279.8  | 279.8  |
| 2.5°  | 298.4  | 299.4  | 299.2  | 297.6  | 296.6  | 294.7  | 294.9  | 292.1  | 287.8  | 284.9  | 281.7  |
| 5°    | 324.7  | 326.4  | 324.3  | 321.7  | 317.6  | 311.7  | 311.0  | 304.5  | 296.4  | 290.6  | 284.7  |
| 7.5°  | 347.6  | 348.6  | 346.2  | 341.7  | 335.7  | 327.8  | 326.4  | 318.6  | 308.4  | 299.4  | 290.8  |
| 10°   | 365.3  | 366.6  | 363.3  | 357.4  | 349.6  | 341.7  | 340.6  | 332.7  | 321.9  | 311.3  | 300.4  |
| 12.5° | 380.4  | 380.8  | 377.4  | 369.4  | 361.1  | 352.9  | 351.9  | 344.5  | 334.5  | 323.7  | 311.9  |
| 15°   | 389.2  | 389.4  | 385.1  | 376.4  | 368.4  | 361.3  | 360.6  | 354.3  | 345.1  | 334.9  | 322.3  |
| 17.5° | 388.6  | 389.0  | 386.0  | 378.2  | 371.3  | 367.0  | 366.4  | 362.3  | 355.1  | 345.9  | 333.3  |
| 20°   | 381.1  | 381.5  | 379.4  | 374.3  | 370.6  | 369.4  | 369.6  | 368.4  | 364.1  | 356.6  | 343.7  |
| 22.5° | 375.1  | 375.7  | 373.9  | 370.2  | 369.8  | 372.7  | 373.3  | 373.9  | 371.9  | 365.1  | 352.7  |
| 25°   | 378.0  | 379.0  | 376.2  | 371.1  | 371.9  | 378.2  | 379.4  | 381.5  | 379.8  | 374.1  | 363.3  |
| 27.5° | 397.8  | 398.4  | 391.1  | 380.6  | 378.2  | 384.9  | 386.8  | 390.0  | 388.8  | 383.5  | 375.1  |
| 30°   | 443.7  | 443.3  | 427.6  | 402.1  | 391.9  | 394.5  | 396.0  | 400.6  | 401.1  | 397.6  | 389.6  |
| 32.5° | 508.4  | 506.4  | 482.1  | 441.5  | 411.9  | 405.3  | 407.0  | 413.3  | 418.0  | 414.3  | 403.5  |
| 35°   | 576.8  | 574.9  | 548.2  | 500.7  | 448.8  | 426.2  | 424.3  | 429.2  | 436.4  | 426.2  | 410.6  |
| 37.5° | 641.9  | 639.0  | 611.7  | 552.9  | 494.3  | 462.7  | 460.0  | 455.1  | 450.9  | 431.3  | 419.4  |
| 40°   | 714.1  | 710.9  | 687.0  | 620.5  | 544.5  | 490.7  | 483.9  | 464.5  | 460.7  | 448.2  | 442.3  |
| 42.5° | 791.3  | 791.3  | 771.5  | 706.0  | 605.2  | 530.7  | 521.9  | 492.7  | 496.8  | 488.6  | 481.7  |
| 45°   | 868.4  | 870.7  | 855.0  | 792.1  | 686.2  | 606.2  | 592.1  | 550.7  | 560.5  | 556.8  | 553.3  |
| 47.5° | 934.2  | 938.4  | 935.4  | 880.1  | 785.4  | 698.0  | 676.6  | 633.5  | 654.5  | 663.3  | 673.1  |
| 50°   | 1005.0 | 1009.7 | 1006.6 | 984.8  | 901.5  | 809.3  | 790.1  | 745.6  | 781.7  | 808.0  | 840.1  |
| 52.5° | 1110.1 | 1116.8 | 1091.3 | 1082.9 | 1042.5 | 935.6  | 918.4  | 867.8  | 933.3  | 977.0  | 1048.5 |
| 55°   | 1198.9 | 1198.7 | 1189.7 | 1208.9 | 1194.0 | 1090.1 | 1071.1 | 1025.2 | 1108.9 | 1155.2 | 1259.7 |
| 57.5° | 1240.1 | 1245.0 | 1275.8 | 1330.1 | 1359.9 | 1278.9 | 1260.7 | 1213.8 | 1297.2 | 1321.3 | 1434.2 |
| 60°   | 1261.3 | 1267.5 | 1327.0 | 1434.4 | 1514.6 | 1485.0 | 1477.9 | 1418.1 | 1465.0 | 1462.2 | 1581.4 |
| 62.5° | 1231.5 | 1243.8 | 1339.5 | 1482.2 | 1625.0 | 1692.2 | 1689.9 | 1599.5 | 1607.7 | 1579.7 | 1672.6 |
| 65°   | 1094.8 | 1108.1 | 1258.3 | 1458.3 | 1688.1 | 1849.7 | 1850.4 | 1763.8 | 1717.3 | 1636.9 | 1657.3 |
| 67.5° | 782.9  | 801.9  | 987.6  | 1304.8 | 1665.9 | 1934.9 | 1942.0 | 1838.3 | 1743.0 | 1586.3 | 1496.4 |
| 70°   | 426.8  | 440.6  | 586.2  | 948.4  | 1465.4 | 1914.4 | 1927.7 | 1802.4 | 1629.5 | 1372.2 | 1151.9 |
| 72.5° | 193.9  | 198.4  | 272.7  | 520.5  | 1001.1 | 1647.9 | 1703.4 | 1608.5 | 1338.3 | 1013.6 | 732.5  |
| 75°   | 88.8   | 90.8   | 118.8  | 249.0  | 523.1  | 1102.7 | 1141.7 | 1198.1 | 931.3  | 640.1  | 381.9  |
| 77.5° | 55.7   | 56.3   | 67.6   | 113.9  | 260.8  | 550.5  | 591.5  | 713.3  | 545.4  | 316.8  | 159.6  |
| 80°   | 32.9   | 33.5   | 42.0   | 61.6   | 122.5  | 251.9  | 290.8  | 282.1  | 256.3  | 136.7  | 72.7   |
| 82.5° | 16.5   | 17.1   | 24.3   | 35.1   | 66.7   | 100.2  | 118.0  | 118.6  | 95.5   | 74.1   | 41.0   |
| 85°   | 5.9    | 6.1    | 8.0    | 13.9   | 28.4   | 33.1   | 36.9   | 45.1   | 46.7   | 43.1   | 19.8   |
| 87.5° | 0.0    | 0.0    | 0.2    | 0.4    | 0.8    | 3.3    | 3.5    | 6.5    | 13.7   | 15.3   | 8.0    |
| 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°    | 279.8  | 279.8  | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 | 279.8 |
| 2.5°  | 280.6  | 277.6  | 276.6 | 275.5 | 273.9 | 273.3 | 272.1 | 270.8 | 270.8 | 269.6 | 269.0 |
| 5°    | 282.1  | 278.0  | 275.3 | 274.1 | 273.1 | 273.7 | 273.7 | 274.1 | 275.5 | 274.7 | 275.1 |
| 7.5°  | 287.2  | 282.5  | 278.8 | 277.8 | 277.8 | 280.2 | 281.9 | 283.9 | 286.6 | 287.0 | 287.0 |
| 10°   | 296.1  | 290.6  | 286.8 | 286.1 | 287.2 | 290.6 | 293.1 | 295.5 | 298.8 | 299.0 | 299.4 |
| 12.5° | 305.9  | 300.4  | 296.6 | 297.4 | 298.4 | 302.9 | 305.5 | 307.6 | 310.8 | 310.8 | 310.6 |
| 15°   | 316.1  | 310.0  | 306.8 | 308.4 | 311.5 | 316.6 | 317.0 | 317.2 | 318.8 | 318.4 | 318.2 |
| 17.5° | 326.8  | 320.2  | 317.8 | 320.2 | 323.5 | 325.9 | 323.9 | 321.0 | 320.4 | 319.6 | 319.2 |
| 20°   | 337.2  | 330.4  | 329.4 | 331.3 | 332.3 | 330.2 | 323.9 | 318.6 | 316.1 | 314.9 | 314.5 |
| 22.5° | 346.2  | 340.4  | 339.8 | 339.8 | 334.7 | 327.6 | 318.2 | 311.0 | 307.8 | 306.1 | 305.7 |
| 25°   | 356.8  | 351.5  | 350.4 | 344.9 | 331.9 | 318.8 | 306.1 | 299.6 | 297.0 | 296.1 | 296.4 |
| 27.5° | 369.2  | 365.5  | 362.3 | 346.6 | 323.7 | 303.3 | 289.0 | 286.1 | 285.1 | 286.1 | 286.8 |
| 30°   | 384.5  | 380.8  | 373.5 | 344.5 | 310.6 | 283.1 | 269.4 | 269.2 | 272.3 | 274.9 | 275.3 |
| 32.5° | 397.0  | 395.3  | 383.3 | 338.0 | 292.3 | 260.8 | 249.2 | 250.0 | 255.5 | 259.2 | 259.8 |
| 35°   | 406.8  | 409.4  | 391.5 | 327.2 | 270.4 | 239.8 | 230.6 | 231.0 | 234.1 | 239.2 | 239.4 |
| 37.5° | 420.6  | 429.6  | 398.8 | 310.6 | 245.3 | 221.7 | 213.3 | 210.2 | 209.8 | 211.2 | 211.7 |
| 40°   | 448.6  | 462.1  | 404.1 | 286.6 | 221.0 | 205.3 | 195.9 | 190.0 | 184.9 | 181.0 | 179.8 |
| 42.5° | 490.9  | 506.4  | 407.2 | 257.4 | 199.4 | 189.2 | 178.6 | 171.0 | 162.1 | 153.9 | 151.0 |
| 45°   | 568.4  | 573.5  | 407.2 | 226.3 | 180.2 | 174.1 | 163.5 | 154.5 | 143.1 | 133.5 | 131.4 |
| 47.5° | 692.5  | 676.2  | 407.6 | 196.3 | 163.3 | 160.8 | 151.6 | 141.4 | 128.8 | 120.8 | 119.6 |
| 50°   | 879.5  | 822.1  | 416.0 | 171.4 | 149.2 | 149.6 | 142.9 | 131.6 | 120.2 | 114.3 | 113.3 |
| 52.5° | 1091.3 | 1001.9 | 438.4 | 153.1 | 137.4 | 140.4 | 136.7 | 125.9 | 115.7 | 110.6 | 109.6 |
| 55°   | 1290.5 | 1167.2 | 457.6 | 140.0 | 127.4 | 132.7 | 132.5 | 122.5 | 113.3 | 108.2 | 107.6 |
| 57.5° | 1459.9 | 1280.5 | 454.7 | 129.4 | 118.8 | 125.5 | 128.6 | 120.2 | 111.6 | 107.4 | 106.7 |
| 60°   | 1565.2 | 1340.5 | 414.1 | 119.6 | 112.3 | 120.4 | 126.3 | 119.6 | 112.5 | 111.4 | 111.6 |
| 62.5° | 1610.9 | 1329.5 | 336.2 | 112.3 | 108.0 | 118.0 | 128.8 | 123.9 | 120.0 | 122.5 | 123.9 |
| 65°   | 1539.9 | 1234.8 | 247.4 | 106.7 | 103.9 | 118.6 | 134.5 | 130.6 | 120.0 | 121.6 | 122.3 |
| 67.5° | 1342.8 | 1051.1 | 178.8 | 101.2 | 98.8  | 120.4 | 142.7 | 129.6 | 113.1 | 113.1 | 111.8 |
| 70°   | 967.6  | 756.0  | 129.8 | 95.7  | 93.7  | 117.8 | 143.1 | 122.7 | 105.1 | 104.5 | 101.4 |
| 72.5° | 582.3  | 446.0  | 101.2 | 89.6  | 85.9  | 104.5 | 134.1 | 114.5 | 97.4  | 92.3  | 88.6  |
| 75°   | 302.5  | 223.5  | 84.9  | 82.9  | 73.7  | 88.6  | 122.7 | 101.8 | 83.3  | 78.8  | 76.7  |
| 77.5° | 129.6  | 104.5  | 72.9  | 73.9  | 61.2  | 74.5  | 99.0  | 88.2  | 73.9  | 68.2  | 66.3  |
| 80°   | 63.9   | 59.4   | 57.6  | 59.2  | 49.0  | 57.6  | 85.3  | 77.1  | 62.7  | 56.1  | 53.5  |
| 82.5° | 36.5   | 34.7   | 41.4  | 42.0  | 34.9  | 48.2  | 72.0  | 65.3  | 51.8  | 44.7  | 40.4  |
| 85°   | 16.9   | 18.2   | 25.1  | 25.3  | 21.6  | 33.1  | 47.1  | 36.7  | 27.6  | 22.9  | 21.8  |
| 87.5° | 6.7    | 8.0    | 11.0  | 10.8  | 6.3   | 6.1   | 4.1   | 2.2   | 1.8   | 1.6   | 1.4   |
| 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)