

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: P631063

Luminaire Tested: GWS-SA1E-830-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631063  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1E-830-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

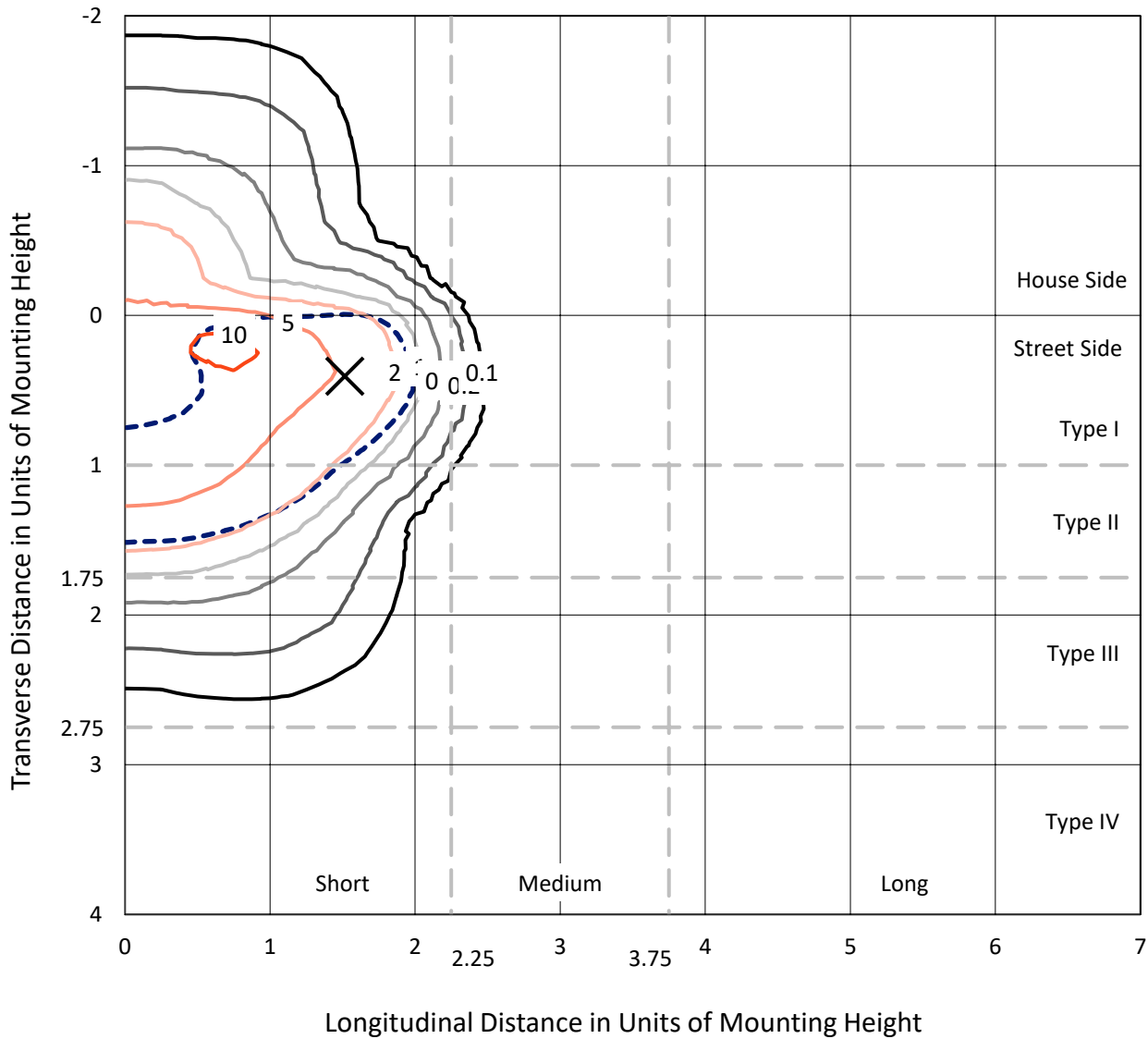
Lumens per Lamp: N/A  
Luminaire Lumens: 3575.6 lumens  
Efficiency: N/A  
Efficacy: 61.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): 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

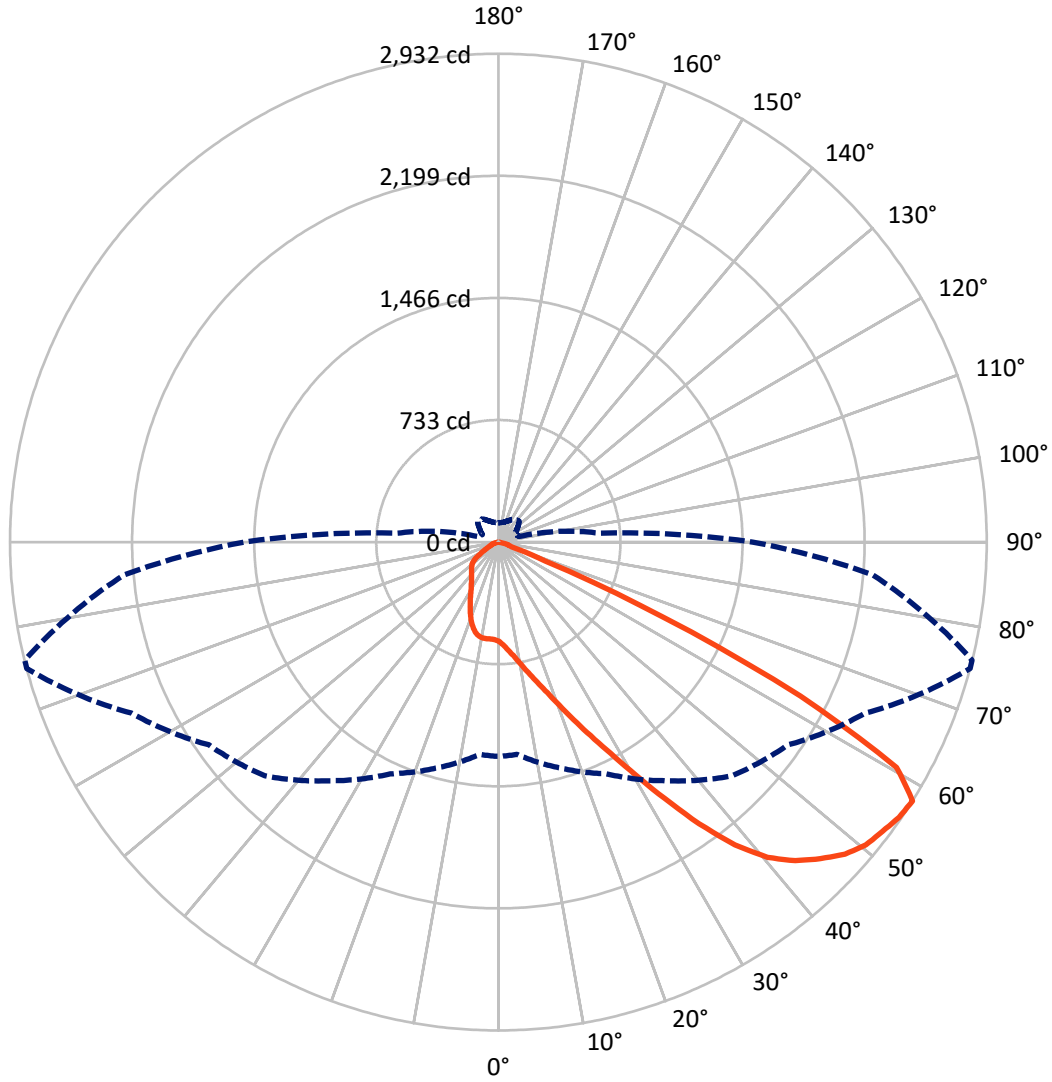
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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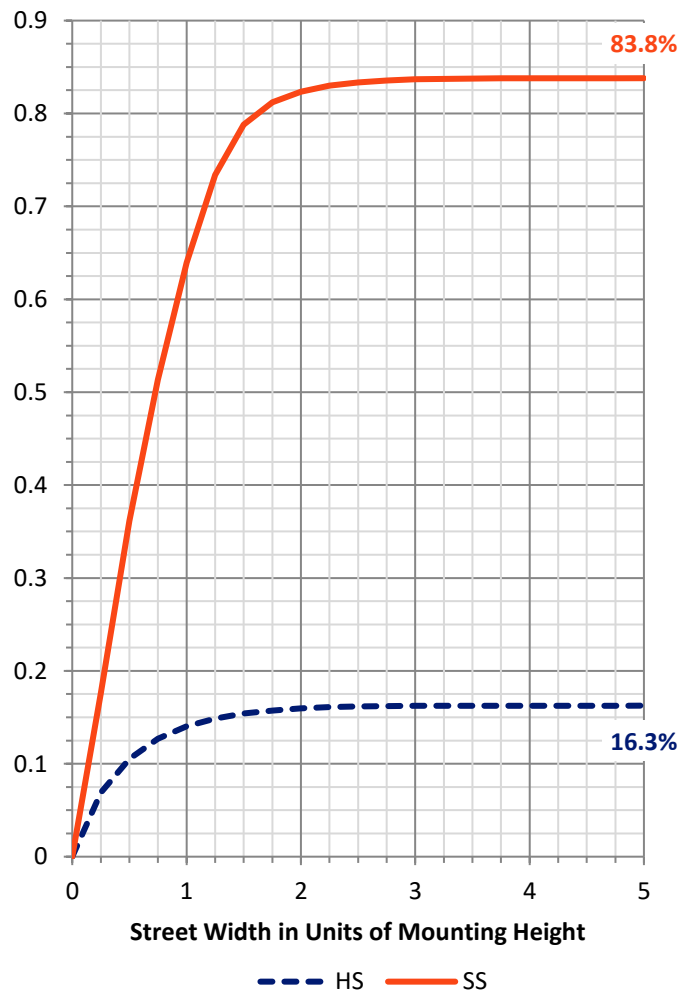
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 584.1    | 0.0    | 584.1  |
|                    | % Fixture | 16.3     | 0.0    | 16.3   |
| <b>Street Side</b> | Lumens    | 2991.5   | 0.0    | 2991.5 |
|                    | % Fixture | 83.7     | 0.0    | 83.7   |
| <b>Total</b>       | Lumens    | 3575.6   | 0.0    | 3575.6 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 60.7   | 1.7       |
| 10°-20°   | 197.1  | 5.5       |
| 20°-30°   | 361.0  | 10.1      |
| 30°-40°   | 598.9  | 16.8      |
| 40°-50°   | 914.7  | 25.6      |
| 50°-60°   | 1027.8 | 28.7      |
| 60°-70°   | 379.1  | 10.6      |
| 70°-80°   | 36.2   | 1.0       |
| 80°-90°   | 0.0    | 0.0       |
| 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°    | 3575.6 | 100.0     |
| 0°-180°   | 3575.6 | 100.0     |

**Coefficient of Utilization**



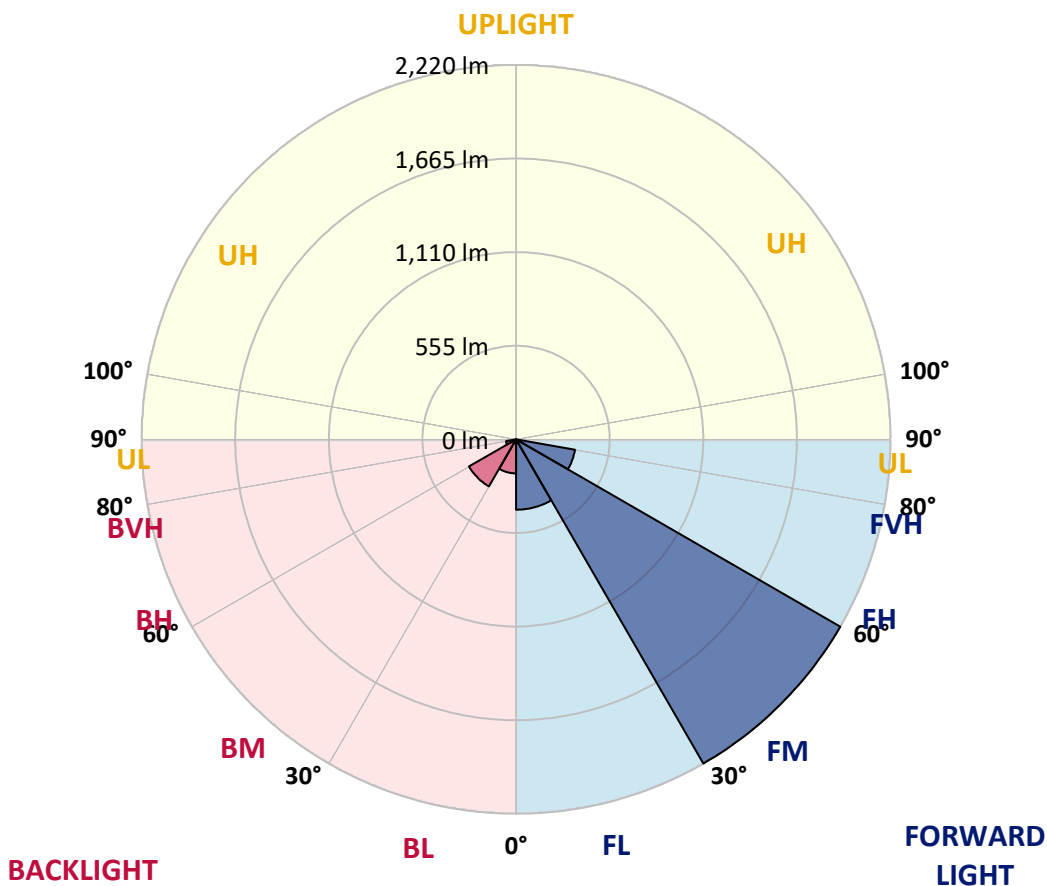
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 417.3  | 11.7      |                         |      |        |
| FM (30°-60°)   | 2219.6 | 62.1      |                         |      |        |
| FH (60°-80°)   | 354.7  | 9.9       |                         |      | G0/660 |
| FVH (80°-90°)  | 0.0    | 0.0       |                         |      | G0/10  |
| BL (0°-30°)    | 201.5  | 5.6       | B1/500                  |      |        |
| BM (30°-60°)   | 321.9  | 9.0       | B1/1000                 |      |        |
| BH (60°-80°)   | 60.6   | 1.7       | B0/110                  |      | G0/110 |
| BVH (80°-90°)  | 0.0    | 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°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 596.4  | 596.4  | 596.4  | 596.4  | 596.4  | 596.4  | 596.4  | 596.4  | 596.4  | 596.4  | 596.4  |
| 2.5°  | 666.3  | 673.2  | 671.0  | 666.7  | 664.1  | 655.0  | 649.4  | 633.0  | 621.4  | 620.1  | 609.3  |
| 5°    | 750.4  | 749.1  | 747.4  | 742.2  | 737.9  | 723.7  | 706.8  | 679.2  | 654.6  | 651.6  | 628.7  |
| 7.5°  | 796.6  | 797.4  | 798.3  | 797.4  | 794.4  | 783.6  | 765.1  | 732.7  | 695.2  | 692.6  | 656.3  |
| 10°   | 815.6  | 817.3  | 821.6  | 829.8  | 837.1  | 836.3  | 825.5  | 792.3  | 746.1  | 741.8  | 693.0  |
| 12.5° | 824.6  | 826.8  | 833.7  | 849.2  | 869.1  | 884.6  | 886.3  | 856.6  | 805.6  | 798.7  | 736.6  |
| 15°   | 837.1  | 839.3  | 847.9  | 868.2  | 897.1  | 927.8  | 947.6  | 928.6  | 871.7  | 864.3  | 784.5  |
| 17.5° | 842.8  | 845.8  | 858.3  | 885.0  | 922.6  | 969.6  | 1014.5 | 1012.8 | 949.8  | 944.2  | 840.2  |
| 20°   | 853.5  | 855.7  | 866.9  | 895.8  | 941.1  | 1008.9 | 1084.4 | 1111.6 | 1045.1 | 1036.9 | 907.5  |
| 22.5° | 887.6  | 888.5  | 893.7  | 911.8  | 954.1  | 1037.4 | 1155.6 | 1226.8 | 1157.8 | 1147.0 | 983.0  |
| 25°   | 943.3  | 942.9  | 945.0  | 948.0  | 979.1  | 1066.3 | 1224.2 | 1356.7 | 1286.8 | 1275.1 | 1068.4 |
| 27.5° | 1014.1 | 1014.1 | 1019.2 | 1010.6 | 1023.1 | 1102.1 | 1292.0 | 1506.0 | 1437.0 | 1420.6 | 1162.1 |
| 30°   | 1097.4 | 1096.9 | 1109.0 | 1095.2 | 1099.1 | 1158.6 | 1364.9 | 1668.7 | 1618.2 | 1597.9 | 1270.0 |
| 32.5° | 1210.4 | 1207.8 | 1221.6 | 1202.6 | 1189.7 | 1244.1 | 1453.8 | 1838.7 | 1835.3 | 1804.2 | 1405.5 |
| 35°   | 1353.2 | 1348.9 | 1353.2 | 1334.7 | 1311.4 | 1363.6 | 1570.3 | 2008.3 | 2076.0 | 2043.2 | 1566.8 |
| 37.5° | 1495.2 | 1509.0 | 1513.8 | 1481.8 | 1462.9 | 1515.1 | 1710.5 | 2160.2 | 2306.0 | 2272.0 | 1734.7 |
| 40°   | 1662.6 | 1658.3 | 1674.7 | 1638.9 | 1626.8 | 1684.7 | 1847.8 | 2273.2 | 2488.1 | 2455.8 | 1884.0 |
| 42.5° | 1786.1 | 1793.8 | 1814.1 | 1794.3 | 1784.8 | 1839.1 | 1963.0 | 2339.3 | 2614.6 | 2582.6 | 1990.6 |
| 45°   | 1934.1 | 1939.7 | 1947.4 | 1931.1 | 1921.1 | 1974.6 | 2046.3 | 2368.2 | 2710.8 | 2676.3 | 2062.2 |
| 47.5° | 2094.2 | 2098.5 | 2098.5 | 2064.8 | 2032.9 | 2054.9 | 2101.9 | 2384.6 | 2799.3 | 2766.0 | 2115.3 |
| 50°   | 2208.9 | 2211.1 | 2230.1 | 2206.4 | 2136.9 | 2102.8 | 2127.4 | 2400.5 | 2858.0 | 2826.9 | 2132.6 |
| 52.5° | 2107.1 | 2104.5 | 2167.1 | 2216.3 | 2234.8 | 2167.1 | 2171.4 | 2423.8 | 2886.4 | 2859.7 | 2146.4 |
| 55°   | 1774.4 | 1770.1 | 1858.1 | 1977.7 | 2141.2 | 2227.9 | 2224.5 | 2437.7 | 2917.9 | 2901.5 | 2196.4 |
| 57.5° | 1286.4 | 1279.0 | 1401.6 | 1534.5 | 1748.9 | 1984.1 | 2122.2 | 2429.9 | 2931.7 | 2930.5 | 2254.7 |
| 60°   | 773.3  | 767.2  | 882.9  | 1022.7 | 1188.4 | 1424.9 | 1654.0 | 2176.6 | 2747.1 | 2749.6 | 2103.2 |
| 62.5° | 476.0  | 481.6  | 586.0  | 657.2  | 718.9  | 790.1  | 922.6  | 1464.1 | 2035.0 | 2051.9 | 1478.0 |
| 65°   | 320.2  | 324.5  | 421.2  | 510.9  | 510.9  | 417.7  | 358.6  | 699.9  | 1085.7 | 1057.2 | 699.1  |
| 67.5° | 214.9  | 219.6  | 296.0  | 400.9  | 416.0  | 291.3  | 145.4  | 208.9  | 302.5  | 293.4  | 173.0  |
| 70°   | 126.4  | 131.6  | 197.2  | 274.9  | 302.9  | 202.8  | 97.1   | 88.5   | 85.9   | 83.3   | 67.3   |
| 72.5° | 56.5   | 58.7   | 100.5  | 139.8  | 127.7  | 85.4   | 68.6   | 70.8   | 66.9   | 65.6   | 54.8   |
| 75°   | 17.3   | 18.1   | 25.9   | 30.2   | 30.6   | 30.6   | 41.4   | 55.7   | 52.6   | 53.1   | 42.3   |
| 77.5° | 4.3    | 4.3    | 6.9    | 6.5    | 3.5    | 3.0    | 7.8    | 12.5   | 12.9   | 11.7   | 8.6    |
| 80°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    | 0.4    |
| 82.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 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    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°   | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 596.4  | 596.4 | 596.4 | 596.4 | 596.4 | 596.4 | 596.4 | 596.4 | 596.4 | 596.4 | 596.4 |
| 2.5°  | 604.6  | 593.3 | 586.0 | 575.6 | 568.3 | 560.5 | 553.6 | 548.0 | 545.0 | 544.1 | 544.6 |
| 5°    | 618.4  | 600.7 | 583.4 | 563.6 | 549.8 | 536.8 | 526.5 | 518.3 | 514.4 | 513.1 | 513.1 |
| 7.5°  | 639.5  | 614.9 | 584.3 | 553.2 | 529.9 | 509.6 | 497.5 | 488.5 | 485.0 | 484.2 | 481.6 |
| 10°   | 667.1  | 633.5 | 583.0 | 534.7 | 501.9 | 480.7 | 472.1 | 469.5 | 470.8 | 471.2 | 470.8 |
| 12.5° | 700.4  | 652.9 | 574.8 | 507.5 | 472.1 | 459.1 | 460.0 | 466.9 | 474.7 | 478.6 | 479.4 |
| 15°   | 735.7  | 670.6 | 556.2 | 475.1 | 446.6 | 446.2 | 458.7 | 474.7 | 489.8 | 496.2 | 498.0 |
| 17.5° | 775.4  | 684.8 | 527.7 | 440.6 | 424.6 | 437.1 | 459.6 | 484.2 | 504.4 | 515.2 | 517.4 |
| 20°   | 819.0  | 696.5 | 491.5 | 408.2 | 405.2 | 427.6 | 458.7 | 488.9 | 513.9 | 526.0 | 528.2 |
| 22.5° | 864.3  | 704.7 | 449.6 | 378.4 | 387.5 | 416.8 | 450.5 | 479.8 | 503.6 | 517.4 | 519.1 |
| 25°   | 916.1  | 705.5 | 406.9 | 353.4 | 371.1 | 402.2 | 430.7 | 454.8 | 474.7 | 486.8 | 488.0 |
| 27.5° | 961.4  | 695.2 | 368.9 | 333.1 | 356.0 | 384.1 | 403.0 | 416.4 | 430.2 | 437.1 | 437.6 |
| 30°   | 1013.6 | 677.1 | 333.1 | 316.7 | 340.5 | 361.6 | 371.1 | 374.1 | 375.4 | 376.7 | 375.0 |
| 32.5° | 1075.8 | 655.0 | 306.4 | 300.8 | 322.8 | 337.0 | 339.6 | 333.6 | 326.2 | 315.9 | 313.3 |
| 35°   | 1152.2 | 635.2 | 284.4 | 285.2 | 303.4 | 312.0 | 309.8 | 296.9 | 282.6 | 270.1 | 268.0 |
| 37.5° | 1235.0 | 618.4 | 267.5 | 270.1 | 282.2 | 288.3 | 281.8 | 267.5 | 261.1 | 250.3 | 250.7 |
| 40°   | 1308.4 | 604.6 | 252.4 | 255.0 | 260.6 | 266.2 | 255.9 | 246.4 | 258.5 | 257.6 | 258.5 |
| 42.5° | 1360.6 | 592.9 | 239.5 | 238.2 | 242.1 | 246.0 | 238.2 | 233.5 | 253.7 | 248.1 | 251.1 |
| 45°   | 1391.2 | 582.1 | 228.7 | 220.9 | 227.0 | 233.9 | 228.7 | 222.7 | 229.6 | 203.7 | 201.5 |
| 47.5° | 1411.9 | 576.1 | 219.2 | 204.1 | 214.9 | 227.0 | 216.2 | 201.5 | 191.6 | 169.2 | 167.4 |
| 50°   | 1414.1 | 573.1 | 208.0 | 186.8 | 200.7 | 213.6 | 201.1 | 180.8 | 166.6 | 156.6 | 155.3 |
| 52.5° | 1425.3 | 579.1 | 192.5 | 164.8 | 179.9 | 200.7 | 192.0 | 171.7 | 152.3 | 143.7 | 142.0 |
| 55°   | 1475.4 | 604.6 | 166.6 | 134.6 | 156.6 | 190.7 | 184.7 | 153.2 | 134.6 | 129.5 | 128.2 |
| 57.5° | 1527.1 | 609.7 | 131.2 | 106.6 | 136.4 | 176.5 | 168.7 | 141.1 | 123.0 | 116.9 | 115.6 |
| 60°   | 1396.4 | 502.3 | 98.4  | 88.0  | 120.4 | 163.1 | 156.2 | 133.8 | 112.6 | 105.3 | 104.0 |
| 62.5° | 917.4  | 271.4 | 78.1  | 74.7  | 101.4 | 138.1 | 142.4 | 120.8 | 100.5 | 92.8  | 92.3  |
| 65°   | 422.9  | 126.0 | 60.0  | 59.1  | 79.4  | 110.0 | 122.6 | 105.7 | 85.0  | 78.1  | 78.1  |
| 67.5° | 115.2  | 62.6  | 47.0  | 43.6  | 53.9  | 73.8  | 89.3  | 79.0  | 60.4  | 52.2  | 51.8  |
| 70°   | 57.4   | 50.5  | 42.3  | 37.5  | 38.8  | 45.7  | 52.6  | 44.0  | 30.6  | 25.0  | 24.6  |
| 72.5° | 47.0   | 41.4  | 35.8  | 31.9  | 29.3  | 28.0  | 27.2  | 22.0  | 14.2  | 10.8  | 10.4  |
| 75°   | 35.0   | 29.8  | 25.5  | 20.7  | 17.7  | 16.4  | 14.7  | 10.8  | 6.0   | 3.5   | 3.0   |
| 77.5° | 7.8    | 7.3   | 6.9   | 5.2   | 4.7   | 3.9   | 3.0   | 2.2   | 0.9   | 0.0   | 0.0   |
| 80°   | 0.4    | 0.4   | 0.4   | 0.4   | 0.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 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)