

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: P200237

Luminaire Tested: **GWC-AF-01-LED-E1-5WQ-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200237  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-AF-01-LED-E1-5WQ-7050-800  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5410 lumens  
Efficiency: N/A  
Efficacy: 123.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G1

Input Watts (W): 44  
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: 25 FT

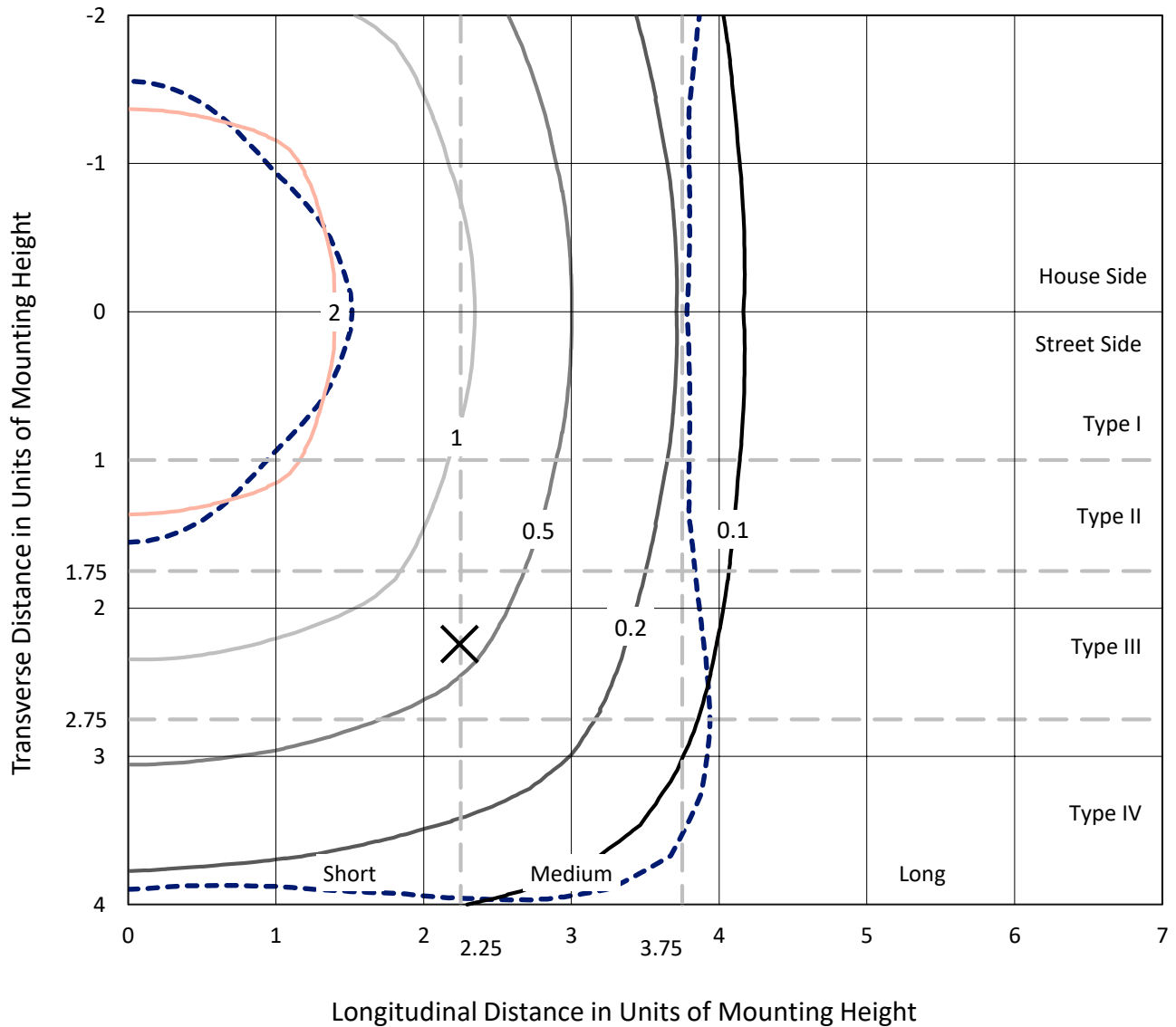


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

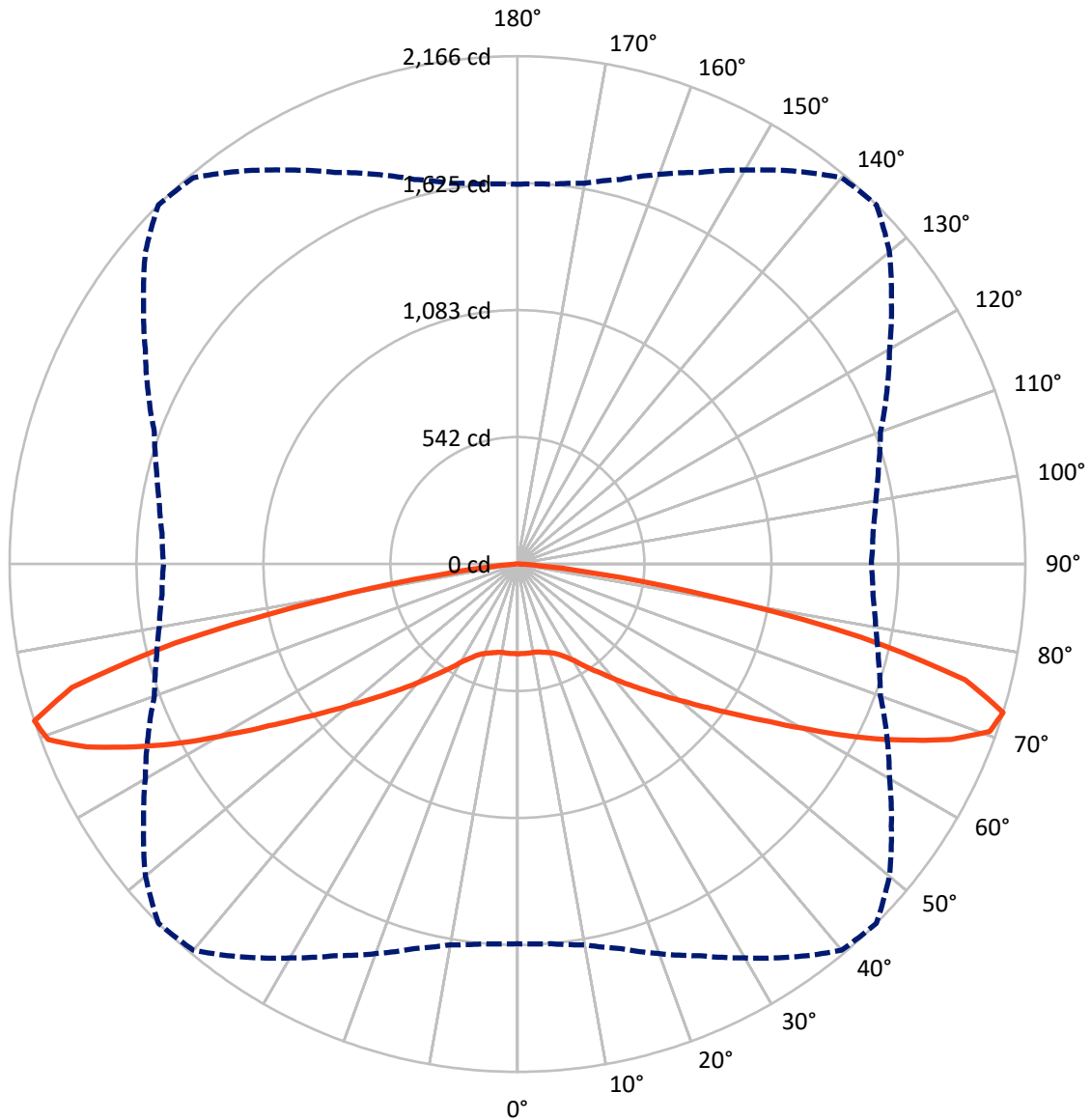


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2705.0   | 0.0    | 2705.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2705.0   | 0.0    | 2705.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5410.0   | 0.0    | 5410.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 36.6   | 0.7       |
| 10°-20°   | 111.1  | 2.1       |
| 20°-30°   | 203.0  | 3.8       |
| 30°-40°   | 350.1  | 6.5       |
| 40°-50°   | 598.4  | 11.1      |
| 50°-60°   | 970.0  | 17.9      |
| 60°-70°   | 1609.2 | 29.7      |
| 70°-80°   | 1417.3 | 26.2      |
| 80°-90°   | 114.3  | 2.1       |
| 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°    | 5410.0 | 100.0     |
| 0°-180°   | 5410.0 | 100.0     |



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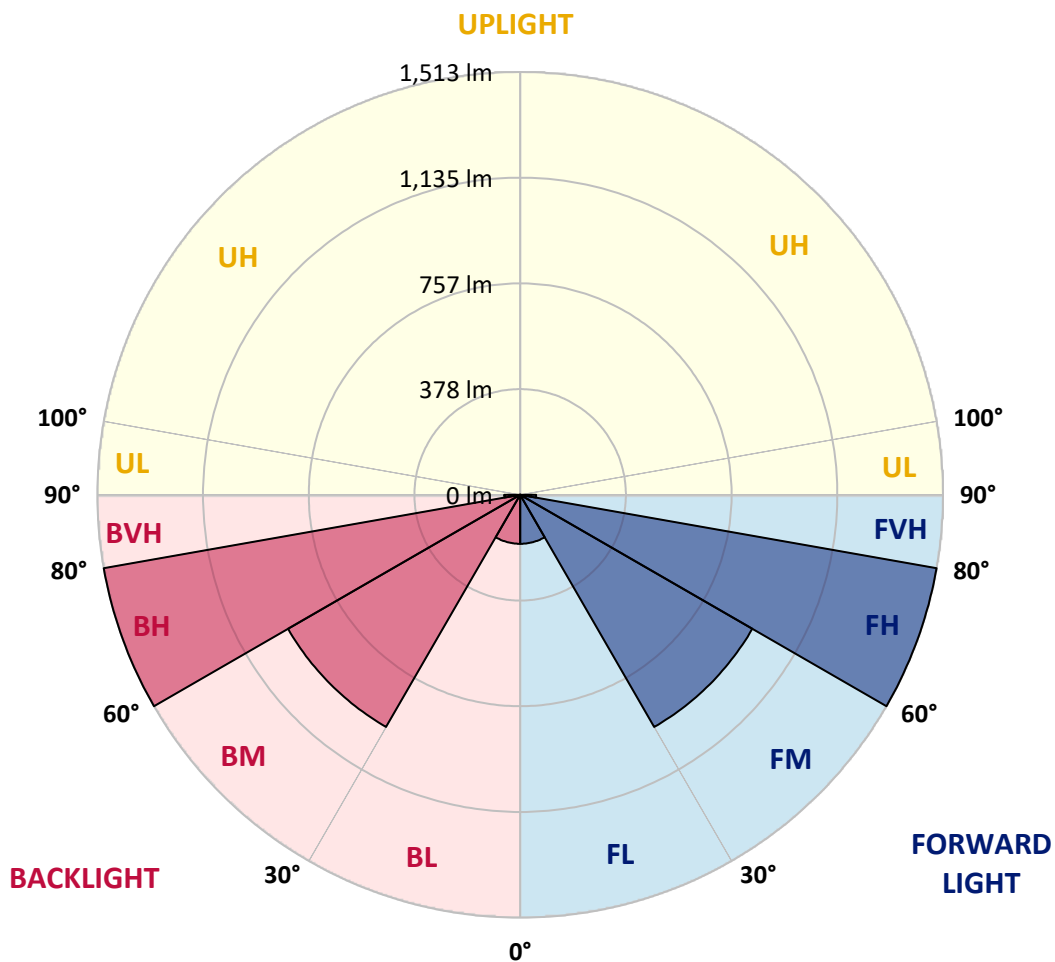
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 175.4  | 3.2       |                         |      |         |
| FM (30°-60°)   | 959.2  | 17.7      |                         |      |         |
| FH (60°-80°)   | 1513.3 | 28.0      |                         |      | G1/1800 |
| FVH (80°-90°)  | 57.1   | 1.1       |                         |      | G1/100  |
| BL (0°-30°)    | 175.4  | 3.2       | B1/500                  |      |         |
| BM (30°-60°)   | 959.2  | 17.7      | B1/1000                 |      |         |
| BH (60°-80°)   | 1513.3 | 28.0      | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 57.1   | 1.1       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 383.1  | 383.1  | 383.1  | 383.1  | 383.1  | 383.1  | 383.1  | 383.1  | 383.1  | 383.1  | 383.1  |
| 2.5°  | 383.1  | 383.4  | 383.6  | 383.4  | 383.4  | 383.1  | 382.9  | 383.1  | 382.9  | 382.4  | 382.6  |
| 5°    | 384.4  | 384.8  | 384.8  | 384.4  | 384.6  | 384.4  | 383.9  | 384.1  | 383.6  | 382.9  | 382.9  |
| 7.5°  | 385.8  | 386.1  | 386.1  | 385.6  | 385.8  | 385.3  | 384.8  | 384.6  | 384.1  | 383.1  | 382.4  |
| 10°   | 388.1  | 388.3  | 388.1  | 387.6  | 387.6  | 386.8  | 385.6  | 385.1  | 384.1  | 382.6  | 381.9  |
| 12.5° | 390.6  | 390.8  | 390.6  | 390.1  | 389.8  | 388.6  | 387.6  | 386.8  | 386.1  | 384.8  | 383.6  |
| 15°   | 394.0  | 394.5  | 394.0  | 393.0  | 392.3  | 391.3  | 390.8  | 391.1  | 391.3  | 390.3  | 389.1  |
| 17.5° | 400.5  | 400.7  | 400.0  | 397.8  | 396.8  | 395.8  | 395.8  | 396.3  | 397.0  | 396.5  | 395.3  |
| 20°   | 412.4  | 411.6  | 409.9  | 407.2  | 405.9  | 404.2  | 404.0  | 404.2  | 404.2  | 404.0  | 403.0  |
| 22.5° | 427.3  | 426.8  | 424.5  | 421.1  | 419.3  | 418.3  | 416.9  | 415.6  | 415.4  | 414.6  | 413.6  |
| 25°   | 445.1  | 444.9  | 442.2  | 439.2  | 437.9  | 436.7  | 435.5  | 433.7  | 432.2  | 430.5  | 429.5  |
| 27.5° | 468.0  | 467.0  | 463.0  | 461.5  | 459.8  | 459.0  | 457.3  | 455.3  | 454.1  | 451.8  | 450.6  |
| 30°   | 493.0  | 493.0  | 489.8  | 489.3  | 489.3  | 487.6  | 485.6  | 482.1  | 479.9  | 477.6  | 476.9  |
| 32.5° | 518.1  | 518.3  | 515.1  | 516.1  | 516.9  | 518.1  | 518.6  | 517.4  | 515.9  | 515.6  | 514.1  |
| 35°   | 554.3  | 553.3  | 550.1  | 550.8  | 550.6  | 550.4  | 550.4  | 553.1  | 553.6  | 554.1  | 551.1  |
| 37.5° | 599.2  | 599.2  | 596.0  | 596.0  | 594.5  | 593.0  | 591.0  | 592.8  | 595.5  | 596.3  | 594.3  |
| 40°   | 650.6  | 652.3  | 648.4  | 648.1  | 648.6  | 643.9  | 641.7  | 644.4  | 646.1  | 649.1  | 646.9  |
| 42.5° | 711.1  | 709.9  | 705.9  | 705.4  | 702.7  | 701.2  | 699.2  | 701.5  | 704.2  | 706.2  | 706.9  |
| 45°   | 769.2  | 768.2  | 763.7  | 763.7  | 761.0  | 759.8  | 760.8  | 764.5  | 765.7  | 768.5  | 771.2  |
| 47.5° | 826.5  | 825.3  | 822.3  | 823.5  | 823.8  | 826.0  | 829.2  | 832.7  | 836.2  | 839.9  | 841.2  |
| 50°   | 885.1  | 885.3  | 882.1  | 885.1  | 888.8  | 895.0  | 903.7  | 909.4  | 916.6  | 921.3  | 922.8  |
| 52.5° | 938.4  | 939.4  | 942.9  | 949.8  | 957.3  | 969.4  | 984.3  | 998.2  | 1010.1 | 1018.1 | 1017.6 |
| 55°   | 1002.4 | 1003.9 | 1012.4 | 1024.3 | 1036.4 | 1054.8 | 1076.9 | 1101.4 | 1121.3 | 1132.7 | 1125.5 |
| 57.5° | 1084.3 | 1087.6 | 1097.0 | 1113.1 | 1131.2 | 1155.0 | 1185.3 | 1222.3 | 1253.1 | 1268.4 | 1256.8 |
| 60°   | 1196.7 | 1198.7 | 1210.1 | 1228.0 | 1249.8 | 1279.4 | 1319.8 | 1369.4 | 1412.8 | 1433.2 | 1419.8 |
| 62.5° | 1344.9 | 1348.6 | 1357.8 | 1375.9 | 1398.2 | 1431.7 | 1481.1 | 1543.1 | 1597.2 | 1625.5 | 1595.2 |
| 65°   | 1521.8 | 1533.7 | 1541.4 | 1559.7 | 1580.6 | 1616.1 | 1667.7 | 1734.2 | 1792.2 | 1810.8 | 1775.9 |
| 67.5° | 1697.0 | 1707.4 | 1720.8 | 1741.9 | 1763.0 | 1802.9 | 1850.8 | 1915.3 | 1979.1 | 1996.0 | 1941.6 |
| 70°   | 1773.6 | 1779.6 | 1800.4 | 1829.2 | 1869.7 | 1916.8 | 1972.1 | 2044.6 | 2123.5 | 2137.4 | 2068.4 |
| 72.5° | 1620.0 | 1626.0 | 1649.3 | 1698.2 | 1768.7 | 1843.6 | 1940.1 | 2046.6 | 2150.8 | 2166.4 | 2071.4 |
| 75°   | 1225.3 | 1215.6 | 1250.1 | 1314.8 | 1409.9 | 1514.3 | 1649.3 | 1801.9 | 1952.5 | 1972.1 | 1858.7 |
| 77.5° | 633.2  | 632.0  | 658.0  | 738.4  | 851.8  | 970.7  | 1119.3 | 1291.8 | 1439.2 | 1498.7 | 1406.4 |
| 80°   | 178.4  | 180.4  | 192.8  | 232.7  | 299.0  | 384.8  | 501.0  | 662.5  | 783.1  | 844.6  | 793.0  |
| 82.5° | 70.0   | 75.4   | 80.1   | 87.6   | 96.3   | 108.9  | 145.4  | 216.4  | 290.3  | 346.9  | 284.1  |
| 85°   | 25.1   | 26.8   | 38.0   | 44.9   | 45.7   | 48.1   | 54.8   | 64.0   | 77.2   | 92.1   | 75.7   |
| 87.5° | 9.4    | 10.4   | 12.2   | 20.1   | 19.9   | 18.1   | 22.1   | 23.1   | 17.4   | 15.9   | 19.6   |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 383.1  | 383.1  | 383.1  | 383.1  | 383.1  | 383.1  | 383.1  | 383.1  |
| 2.5°  | 382.1  | 382.4  | 382.4  | 382.6  | 382.9  | 382.9  | 383.4  | 383.4  |
| 5°    | 382.4  | 382.4  | 381.9  | 382.1  | 381.9  | 381.9  | 382.1  | 382.1  |
| 7.5°  | 381.9  | 381.6  | 381.1  | 380.9  | 380.4  | 380.4  | 380.4  | 380.4  |
| 10°   | 381.1  | 380.9  | 380.4  | 380.1  | 379.9  | 379.9  | 379.9  | 379.9  |
| 12.5° | 383.1  | 382.4  | 381.9  | 381.6  | 381.6  | 381.6  | 381.6  | 381.6  |
| 15°   | 388.3  | 386.6  | 385.3  | 385.3  | 385.6  | 386.1  | 386.1  | 386.6  |
| 17.5° | 394.8  | 392.8  | 391.5  | 390.6  | 391.1  | 391.8  | 392.3  | 392.8  |
| 20°   | 402.5  | 401.5  | 399.7  | 398.7  | 398.7  | 399.7  | 400.2  | 400.5  |
| 22.5° | 413.1  | 412.4  | 411.6  | 410.4  | 410.4  | 410.9  | 411.9  | 411.9  |
| 25°   | 429.0  | 428.5  | 428.0  | 427.0  | 426.8  | 426.8  | 427.3  | 427.8  |
| 27.5° | 448.9  | 449.1  | 448.6  | 448.4  | 447.6  | 447.4  | 448.1  | 447.9  |
| 30°   | 475.4  | 476.7  | 477.9  | 476.9  | 475.7  | 474.9  | 474.2  | 473.2  |
| 32.5° | 511.4  | 509.9  | 508.9  | 507.2  | 504.9  | 503.0  | 501.5  | 499.7  |
| 35°   | 545.4  | 542.9  | 541.9  | 543.4  | 543.2  | 541.9  | 540.2  | 538.7  |
| 37.5° | 587.1  | 586.6  | 587.1  | 589.8  | 589.3  | 590.5  | 587.1  | 586.8  |
| 40°   | 639.7  | 640.2  | 643.6  | 646.9  | 648.6  | 650.3  | 648.4  | 646.4  |
| 42.5° | 700.7  | 700.5  | 701.7  | 706.2  | 709.2  | 711.1  | 706.9  | 706.4  |
| 45°   | 765.2  | 763.5  | 764.5  | 768.2  | 771.2  | 773.4  | 768.7  | 768.7  |
| 47.5° | 836.2  | 833.2  | 830.0  | 834.2  | 835.9  | 837.4  | 833.7  | 832.5  |
| 50°   | 915.3  | 909.1  | 902.2  | 903.9  | 903.9  | 903.4  | 898.7  | 898.5  |
| 52.5° | 1006.2 | 994.8  | 982.1  | 977.4  | 974.7  | 971.7  | 963.5  | 959.5  |
| 55°   | 1110.6 | 1093.5 | 1073.7 | 1061.5 | 1055.0 | 1046.9 | 1033.2 | 1029.5 |
| 57.5° | 1232.7 | 1205.9 | 1171.7 | 1156.8 | 1142.4 | 1129.0 | 1113.9 | 1109.6 |
| 60°   | 1377.4 | 1337.9 | 1292.5 | 1265.0 | 1249.3 | 1236.4 | 1220.8 | 1220.1 |
| 62.5° | 1538.7 | 1476.4 | 1425.0 | 1400.2 | 1388.8 | 1377.4 | 1362.5 | 1364.5 |
| 65°   | 1702.7 | 1637.7 | 1589.5 | 1569.4 | 1558.7 | 1549.3 | 1534.4 | 1536.7 |
| 67.5° | 1864.4 | 1804.6 | 1751.8 | 1731.2 | 1719.3 | 1707.4 | 1694.0 | 1696.2 |
| 70°   | 1980.6 | 1906.4 | 1846.8 | 1801.2 | 1772.6 | 1740.4 | 1719.5 | 1714.3 |
| 72.5° | 1947.3 | 1832.9 | 1738.4 | 1647.8 | 1594.7 | 1551.6 | 1522.3 | 1509.6 |
| 75°   | 1685.3 | 1529.0 | 1407.4 | 1296.2 | 1233.7 | 1182.8 | 1145.9 | 1122.8 |
| 77.5° | 1251.6 | 1075.9 | 932.2  | 804.2  | 703.0  | 635.0  | 587.1  | 556.1  |
| 80°   | 685.1  | 521.1  | 380.9  | 267.7  | 196.8  | 163.5  | 144.4  | 135.2  |
| 82.5° | 213.4  | 137.7  | 101.5  | 87.6   | 81.4   | 77.9   | 72.2   | 63.0   |
| 85°   | 68.0   | 59.6   | 55.3   | 52.9   | 50.4   | 43.9   | 30.3   | 27.5   |
| 87.5° | 26.3   | 27.0   | 26.8   | 25.3   | 25.8   | 18.6   | 14.9   | 13.2   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)