

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: P270118

Luminaire Tested: **GWC-AF-02-LED-E1-SL2-7027-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P270118  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-AF-02-LED-E1-SL2-7027-800-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7100.3 lumens  
Efficiency: N/A  
Efficacy: 82.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 86  
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

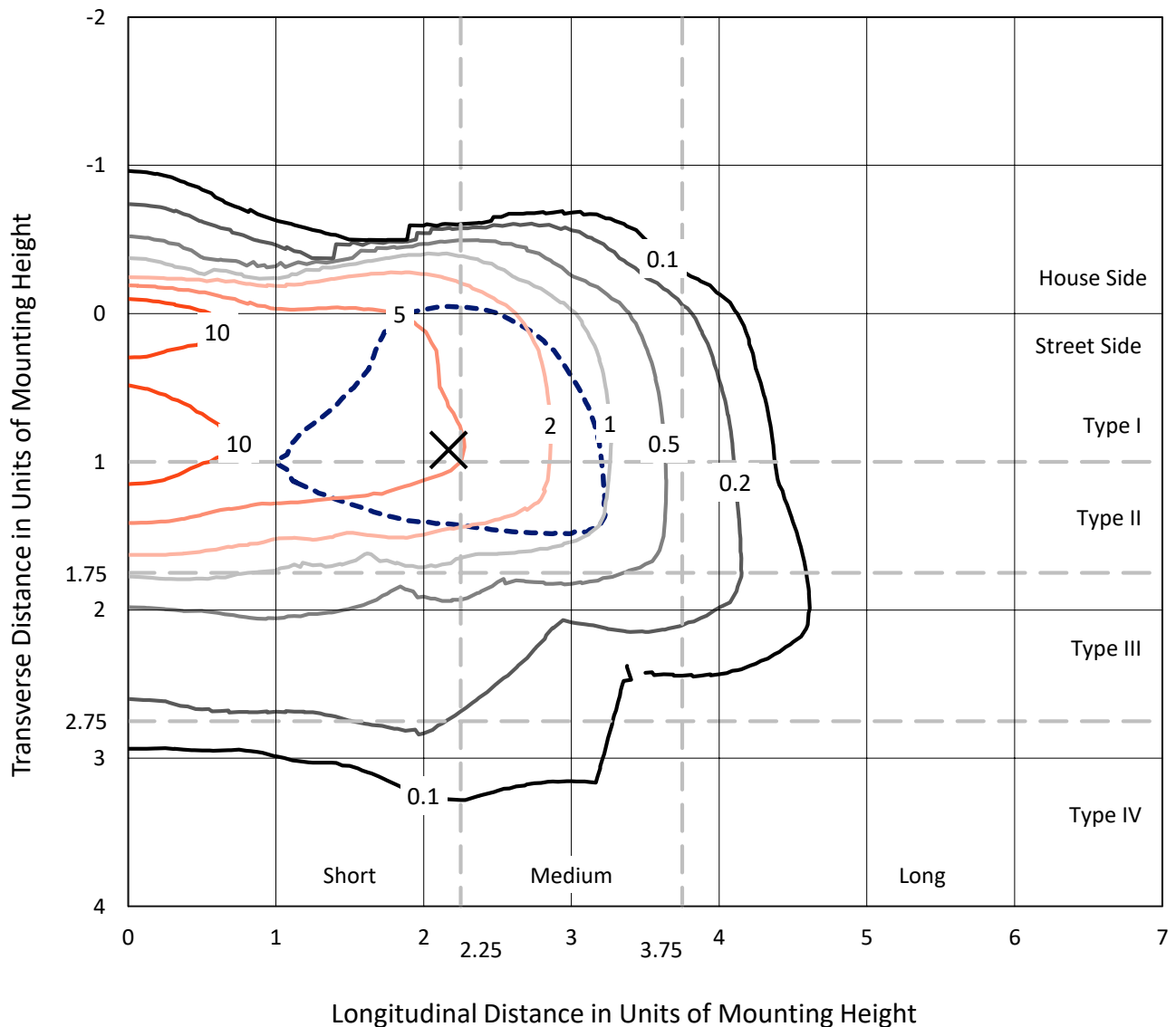


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### Iso-Footcandle Lines of Horizontal Illumination

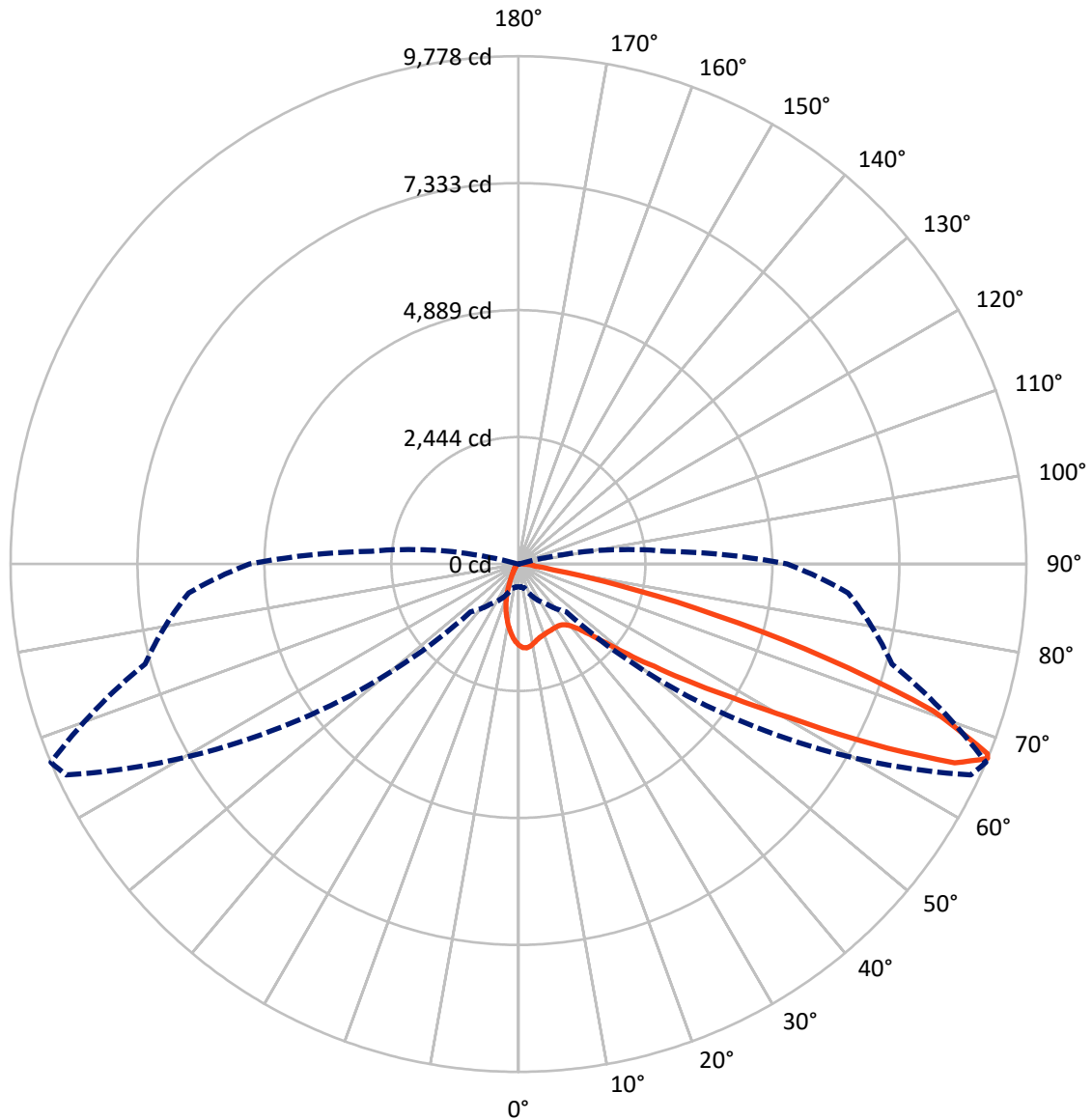
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.7 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 737.2    | 0.0    | 737.2  |
|                    | % Fixture | 10.4     | 0.0    | 10.4   |
| <b>Street Side</b> | Lumens    | 6363.1   | 0.0    | 6363.1 |
|                    | % Fixture | 89.6     | 0.0    | 89.6   |
| <b>Total</b>       | Lumens    | 7100.3   | 0.0    | 7100.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 127.4  | 1.8       |
| 10°-20°   | 271.2  | 3.8       |
| 20°-30°   | 394.3  | 5.6       |
| 30°-40°   | 615.1  | 8.7       |
| 40°-50°   | 1089.6 | 15.3      |
| 50°-60°   | 1724.2 | 24.3      |
| 60°-70°   | 1974.8 | 27.8      |
| 70°-80°   | 819.1  | 11.5      |
| 80°-90°   | 84.6   | 1.2       |
| 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°    | 7100.3 | 100.0     |
| 0°-180°   | 7100.3 | 100.0     |



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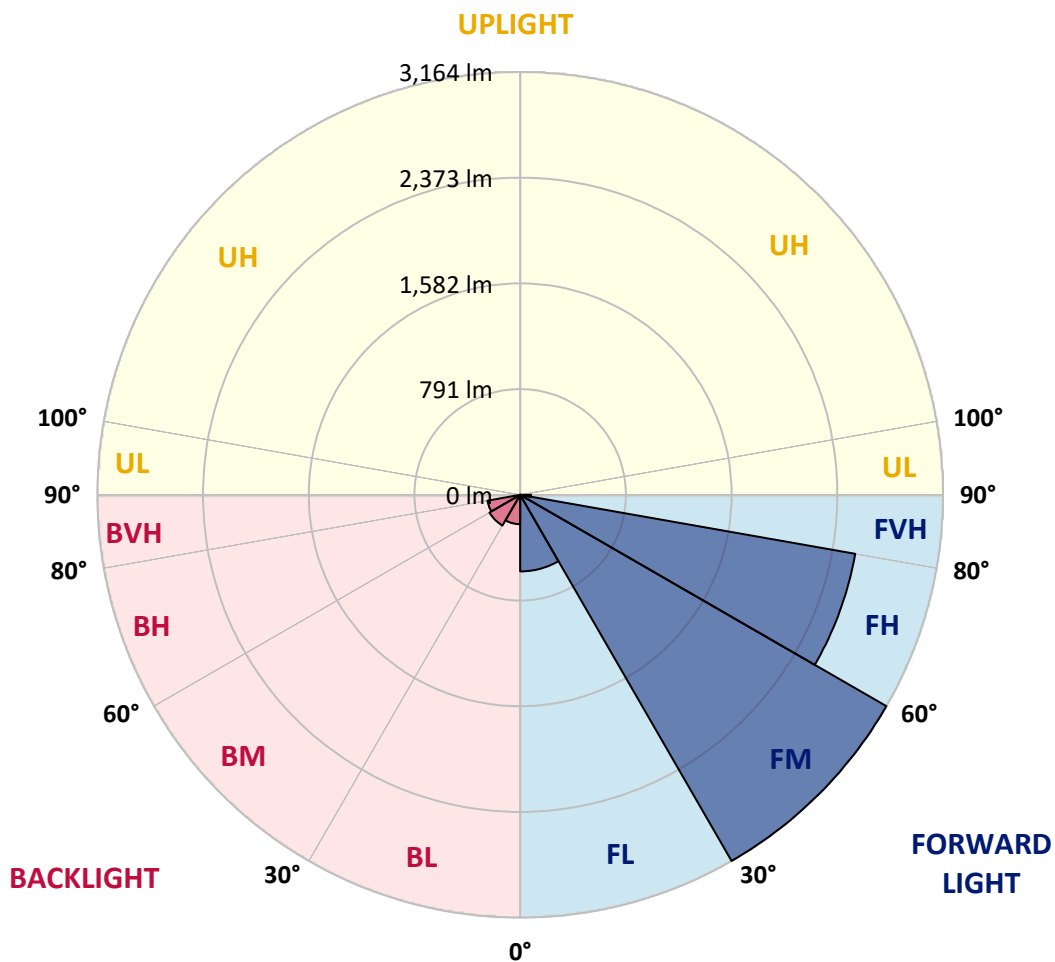
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 572.9  | 8.1       |                         |      |         |
| FM (30°-60°)   | 3163.9 | 44.6      |                         |      |         |
| FH (60°-80°)   | 2545.5 | 35.9      |                         |      | G2/5000 |
| FVH (80°-90°)  | 80.8   | 1.1       |                         |      | G1/100  |
| BL (0°-30°)    | 220.0  | 3.1       | B1/500                  |      |         |
| BM (30°-60°)   | 265.0  | 3.7       | B1/1000                 |      |         |
| BH (60°-80°)   | 248.5  | 3.5       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 3.8    | 0.1       |                         |      | 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 II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 67°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1565.8 | 1565.8 | 1565.8 | 1565.8 | 1565.8 | 1565.8 | 1565.8 | 1565.8 | 1565.8 | 1565.8 | 1565.8 |
| 2.5°  | 1618.9 | 1622.2 | 1621.8 | 1624.3 | 1630.1 | 1630.5 | 1624.7 | 1613.5 | 1611.0 | 1596.6 | 1571.2 |
| 5°    | 1493.0 | 1502.6 | 1508.3 | 1531.9 | 1558.4 | 1590.4 | 1614.3 | 1623.1 | 1621.8 | 1611.4 | 1573.4 |
| 7.5°  | 1349.3 | 1358.8 | 1365.4 | 1393.2 | 1428.4 | 1483.1 | 1545.6 | 1596.9 | 1601.4 | 1612.6 | 1571.7 |
| 10°   | 1253.6 | 1255.3 | 1264.4 | 1290.9 | 1327.7 | 1383.7 | 1458.1 | 1548.1 | 1561.7 | 1602.7 | 1567.5 |
| 12.5° | 1174.9 | 1176.2 | 1188.2 | 1216.8 | 1256.1 | 1312.4 | 1390.8 | 1494.6 | 1515.8 | 1590.4 | 1566.7 |
| 15°   | 1119.0 | 1123.6 | 1134.4 | 1164.2 | 1206.0 | 1261.9 | 1342.2 | 1455.3 | 1480.6 | 1585.7 | 1574.2 |
| 17.5° | 1100.4 | 1105.4 | 1108.7 | 1130.2 | 1168.3 | 1223.0 | 1305.3 | 1429.7 | 1458.1 | 1588.2 | 1588.7 |
| 20°   | 1119.8 | 1123.6 | 1116.1 | 1121.5 | 1145.1 | 1194.0 | 1274.3 | 1407.7 | 1441.7 | 1591.2 | 1607.3 |
| 22.5° | 1192.3 | 1194.0 | 1173.6 | 1150.1 | 1146.0 | 1172.8 | 1249.9 | 1390.2 | 1426.7 | 1599.1 | 1629.3 |
| 25°   | 1316.6 | 1313.7 | 1280.5 | 1229.6 | 1181.5 | 1169.1 | 1235.3 | 1379.5 | 1419.3 | 1607.3 | 1652.0 |
| 27.5° | 1466.5 | 1470.6 | 1425.1 | 1351.0 | 1259.4 | 1194.0 | 1233.4 | 1375.0 | 1415.9 | 1613.1 | 1671.9 |
| 30°   | 1648.7 | 1654.5 | 1602.3 | 1509.2 | 1377.9 | 1255.3 | 1252.3 | 1374.1 | 1413.8 | 1609.4 | 1673.5 |
| 32.5° | 1834.7 | 1841.7 | 1800.7 | 1704.6 | 1536.0 | 1358.1 | 1295.4 | 1383.2 | 1418.1 | 1596.6 | 1664.1 |
| 35°   | 2029.3 | 2039.2 | 2011.9 | 1929.5 | 1750.6 | 1506.2 | 1371.3 | 1411.0 | 1437.6 | 1595.3 | 1654.5 |
| 37.5° | 2298.0 | 2307.2 | 2255.8 | 2168.5 | 2010.2 | 1705.1 | 1493.0 | 1463.2 | 1483.5 | 1615.2 | 1657.0 |
| 40°   | 2699.3 | 2698.1 | 2565.6 | 2431.9 | 2295.5 | 1957.7 | 1664.1 | 1557.6 | 1568.0 | 1675.2 | 1687.6 |
| 42.5° | 3136.7 | 3134.7 | 2938.7 | 2735.4 | 2612.5 | 2268.7 | 1888.9 | 1720.8 | 1713.8 | 1785.8 | 1767.1 |
| 45°   | 3473.8 | 3473.5 | 3313.6 | 3084.5 | 2993.8 | 2625.7 | 2179.6 | 1947.7 | 1936.9 | 1965.5 | 1913.7 |
| 47.5° | 3617.6 | 3620.0 | 3539.8 | 3378.6 | 3416.7 | 3108.6 | 2546.2 | 2276.6 | 2260.4 | 2248.7 | 2170.1 |
| 50°   | 3505.7 | 3510.7 | 3517.3 | 3485.9 | 3726.9 | 3757.5 | 3037.7 | 2740.0 | 2732.2 | 2680.4 | 2557.3 |
| 52.5° | 3140.5 | 3165.7 | 3243.6 | 3343.4 | 3834.6 | 4380.4 | 3808.5 | 3315.6 | 3273.4 | 3218.4 | 3082.9 |
| 55°   | 2525.0 | 2552.8 | 2700.6 | 2942.8 | 3674.3 | 4789.6 | 4888.6 | 4057.7 | 3987.4 | 3823.0 | 3627.5 |
| 57.5° | 1671.1 | 1714.1 | 1928.7 | 2236.8 | 3208.7 | 4855.4 | 5966.1 | 5087.7 | 4842.6 | 4392.4 | 4172.1 |
| 60°   | 920.7  | 962.1  | 1194.7 | 1473.9 | 2317.5 | 4530.0 | 6690.9 | 6428.8 | 5995.6 | 5029.0 | 4833.5 |
| 62.5° | 566.9  | 589.3  | 761.1  | 1020.9 | 1389.9 | 3575.3 | 6840.9 | 8113.9 | 7612.3 | 5848.5 | 5632.4 |
| 65°   | 451.5  | 460.9  | 545.0  | 834.5  | 996.4  | 2126.6 | 6356.7 | 9398.6 | 9231.3 | 6840.9 | 6347.6 |
| 67°   | 438.1  | 441.9  | 481.7  | 716.5  | 939.3  | 1303.7 | 5325.5 | 9607.7 | 9777.6 | 7441.4 | 6369.9 |
| 67.5° | 441.1  | 445.2  | 482.9  | 683.8  | 937.7  | 1198.2 | 4970.1 | 9525.4 | 9739.9 | 7488.9 | 6271.0 |
| 70°   | 425.3  | 438.1  | 552.8  | 683.3  | 891.7  | 995.6  | 2976.4 | 8253.1 | 8476.2 | 6958.5 | 5320.9 |
| 72.5° | 150.7  | 151.5  | 238.9  | 552.8  | 969.5  | 1006.4 | 1494.6 | 6050.3 | 6215.5 | 5323.0 | 3836.2 |
| 75°   | 89.5   | 76.3   | 79.5   | 157.4  | 926.4  | 977.4  | 862.3  | 3866.0 | 3927.7 | 3050.2 | 1942.7 |
| 77.5° | 61.7   | 53.8   | 55.5   | 69.5   | 352.9  | 963.7  | 685.0  | 2016.1 | 1950.2 | 1069.7 | 413.8  |
| 80°   | 35.2   | 31.1   | 33.1   | 60.9   | 128.5  | 899.1  | 646.1  | 817.5  | 697.0  | 181.4  | 114.4  |
| 82.5° | 18.6   | 15.7   | 19.0   | 50.0   | 89.5   | 560.4  | 647.3  | 395.1  | 313.1  | 61.3   | 77.9   |
| 85°   | 6.6    | 5.4    | 9.1    | 34.3   | 59.6   | 171.8  | 600.2  | 332.1  | 260.9  | 29.8   | 59.2   |
| 87.5° | 1.3    | 1.3    | 3.8    | 14.1   | 24.0   | 52.6   | 355.0  | 197.1  | 132.1  | 17.9   | 40.6   |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1565.8 | 1565.8 | 1565.8 | 1565.8 | 1565.8 | 1565.8 | 1565.8 | 1565.8 | 1565.8 | 1565.8 | 1565.8 |
| 2.5°  | 1560.9 | 1543.1 | 1519.0 | 1489.7 | 1454.9 | 1424.2 | 1401.4 | 1377.9 | 1372.9 | 1364.6 | 1363.4 |
| 5°    | 1550.5 | 1519.9 | 1460.3 | 1392.0 | 1319.1 | 1253.2 | 1199.8 | 1152.2 | 1131.0 | 1112.7 | 1110.8 |
| 7.5°  | 1535.3 | 1489.2 | 1387.8 | 1277.7 | 1163.7 | 1060.2 | 972.4  | 910.3  | 853.1  | 825.8  | 821.7  |
| 10°   | 1517.4 | 1451.6 | 1306.2 | 1153.3 | 996.0  | 849.8  | 719.4  | 610.0  | 543.7  | 504.4  | 499.5  |
| 12.5° | 1500.8 | 1414.7 | 1223.0 | 1024.6 | 815.5  | 620.0  | 452.2  | 347.9  | 278.3  | 250.2  | 246.8  |
| 15°   | 1493.0 | 1384.9 | 1145.1 | 892.8  | 626.6  | 394.7  | 247.3  | 191.3  | 168.5  | 161.9  | 161.5  |
| 17.5° | 1492.2 | 1359.7 | 1069.0 | 756.6  | 439.0  | 229.4  | 161.2  | 147.1  | 142.5  | 140.8  | 140.8  |
| 20°   | 1491.7 | 1335.6 | 992.7  | 615.3  | 278.7  | 152.8  | 134.2  | 130.8  | 127.6  | 125.5  | 125.5  |
| 22.5° | 1496.3 | 1314.1 | 913.2  | 471.3  | 175.6  | 123.8  | 118.0  | 114.7  | 110.6  | 107.7  | 107.3  |
| 25°   | 1500.8 | 1297.5 | 832.0  | 335.5  | 127.2  | 107.7  | 101.9  | 97.4   | 91.5   | 87.8   | 87.4   |
| 27.5° | 1501.7 | 1276.8 | 745.1  | 224.4  | 106.4  | 94.0   | 86.5   | 79.5   | 72.9   | 69.2   | 68.8   |
| 30°   | 1489.2 | 1242.1 | 648.6  | 151.5  | 94.0   | 81.7   | 71.7   | 64.1   | 58.0   | 55.1   | 55.1   |
| 32.5° | 1464.9 | 1198.9 | 542.6  | 114.4  | 83.6   | 70.0   | 59.2   | 52.2   | 48.1   | 46.8   | 46.4   |
| 35°   | 1442.9 | 1152.6 | 433.6  | 96.8   | 75.0   | 59.2   | 48.4   | 43.9   | 41.4   | 41.0   | 40.6   |
| 37.5° | 1430.0 | 1115.2 | 331.3  | 87.8   | 66.7   | 49.7   | 41.0   | 37.7   | 36.5   | 35.6   | 36.0   |
| 40°   | 1439.9 | 1084.2 | 244.8  | 80.4   | 58.4   | 41.4   | 34.9   | 33.1   | 32.0   | 31.4   | 31.4   |
| 42.5° | 1483.5 | 1078.9 | 181.8  | 73.8   | 50.6   | 34.3   | 30.2   | 28.9   | 28.2   | 27.8   | 28.2   |
| 45°   | 1597.8 | 1112.0 | 141.2  | 67.6   | 42.7   | 28.9   | 25.7   | 25.2   | 24.9   | 24.9   | 24.9   |
| 47.5° | 1769.7 | 1180.3 | 117.6  | 60.5   | 35.6   | 24.9   | 22.4   | 21.9   | 21.6   | 21.9   | 21.9   |
| 50°   | 2060.8 | 1305.3 | 105.2  | 53.4   | 29.5   | 21.1   | 19.0   | 19.0   | 19.0   | 19.0   | 19.5   |
| 52.5° | 2503.5 | 1551.4 | 96.8   | 46.4   | 24.0   | 17.9   | 16.1   | 16.1   | 16.6   | 16.6   | 17.0   |
| 55°   | 2996.7 | 1877.7 | 89.5   | 39.3   | 20.3   | 14.9   | 13.2   | 13.7   | 14.1   | 14.5   | 14.5   |
| 57.5° | 3531.8 | 2239.3 | 83.3   | 32.3   | 17.3   | 11.9   | 11.2   | 11.6   | 11.9   | 12.8   | 12.8   |
| 60°   | 4177.5 | 2630.7 | 74.1   | 25.2   | 14.5   | 9.5    | 8.7    | 9.5    | 10.8   | 11.6   | 11.9   |
| 62.5° | 4886.4 | 3009.1 | 62.5   | 19.9   | 11.9   | 7.5    | 7.0    | 8.7    | 10.3   | 11.2   | 11.6   |
| 65°   | 5371.0 | 3128.0 | 48.1   | 16.1   | 9.1    | 5.4    | 5.7    | 7.9    | 10.0   | 11.2   | 11.2   |
| 67°   | 5174.8 | 2836.0 | 39.3   | 13.7   | 7.5    | 4.1    | 5.4    | 7.9    | 10.0   | 10.8   | 11.2   |
| 67.5° | 5038.5 | 2721.8 | 37.7   | 13.2   | 7.0    | 4.1    | 5.4    | 7.9    | 10.0   | 11.2   | 11.2   |
| 70°   | 4099.6 | 2044.6 | 31.4   | 10.0   | 5.7    | 3.8    | 4.5    | 7.5    | 9.5    | 10.8   | 10.8   |
| 72.5° | 2848.5 | 1260.7 | 28.2   | 7.0    | 5.0    | 3.3    | 4.1    | 7.0    | 9.1    | 10.3   | 10.8   |
| 75°   | 1354.3 | 456.3  | 24.0   | 5.4    | 4.5    | 2.9    | 3.8    | 7.0    | 9.1    | 10.3   | 10.3   |
| 77.5° | 276.2  | 106.0  | 19.5   | 4.5    | 3.8    | 2.9    | 3.3    | 6.6    | 8.7    | 10.0   | 10.0   |
| 80°   | 90.7   | 41.0   | 14.5   | 4.1    | 3.8    | 2.9    | 3.3    | 6.2    | 8.7    | 9.5    | 10.0   |
| 82.5° | 65.4   | 20.8   | 9.5    | 4.1    | 3.8    | 2.9    | 2.9    | 6.2    | 8.3    | 9.5    | 9.5    |
| 85°   | 50.0   | 14.5   | 6.2    | 4.1    | 3.8    | 2.9    | 2.9    | 5.7    | 7.9    | 9.1    | 9.1    |
| 87.5° | 33.1   | 5.7    | 5.0    | 4.1    | 3.8    | 2.9    | 2.9    | 5.7    | 7.5    | 8.7    | 9.1    |
| 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)