

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: P526477

Luminaire Tested: **GALN-SA1B-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526477  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1B-830-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2783 lumens  
Efficiency: N/A  
Efficacy: 63.3 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

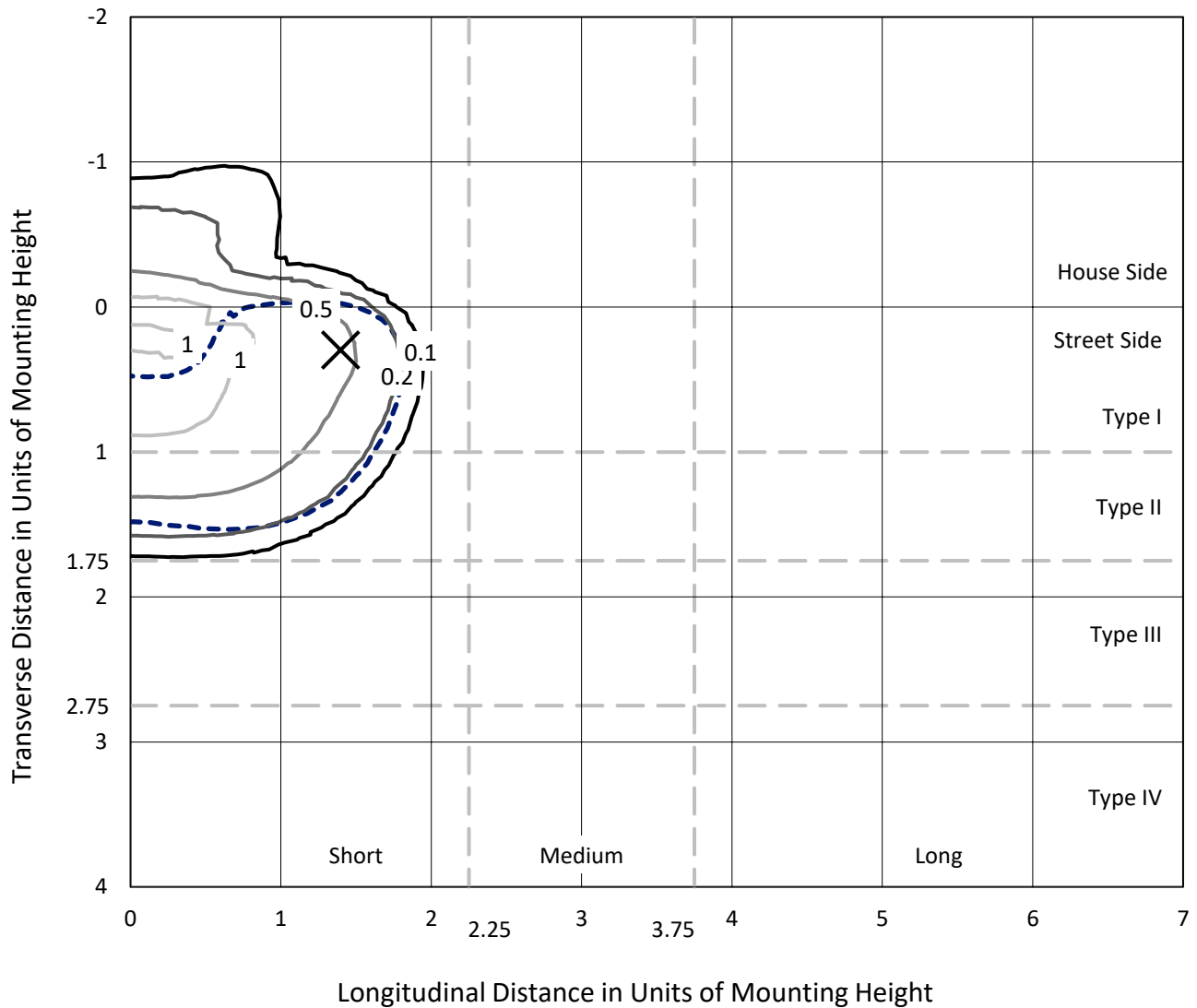
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

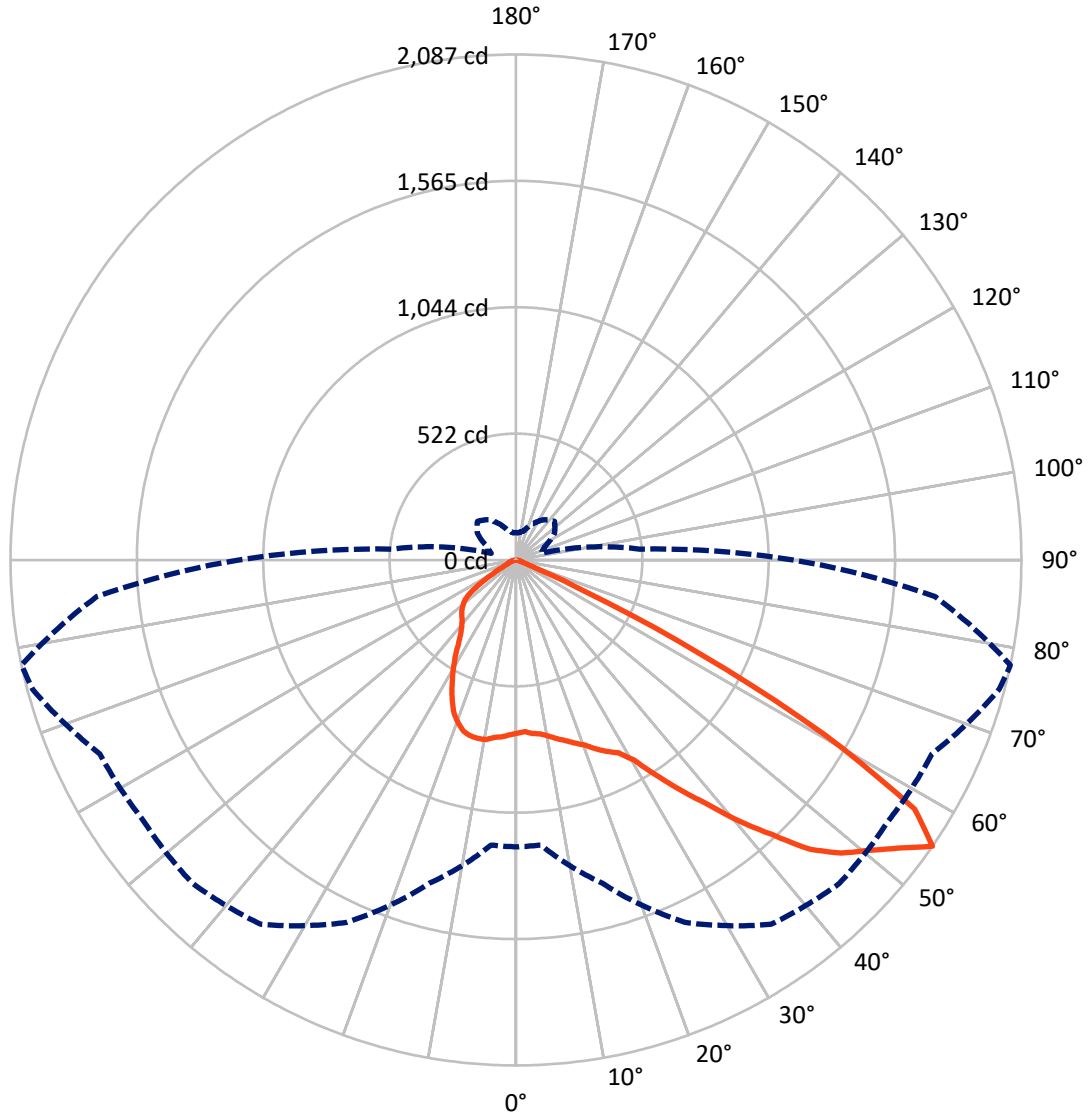
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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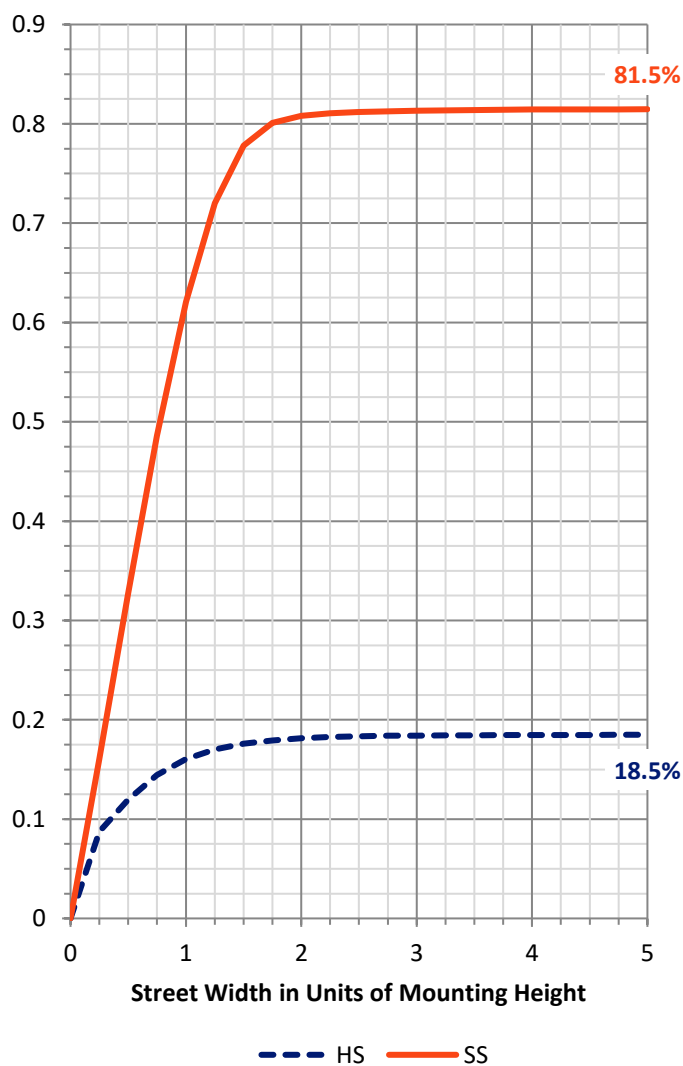
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 516.9    | 0.0    | 516.9  |
|                    | % Fixture | 18.6     | 0.0    | 18.6   |
| <b>Street Side</b> | Lumens    | 2266.1   | 0.0    | 2266.1 |
|                    | % Fixture | 81.4     | 0.0    | 81.4   |
| <b>Total</b>       | Lumens    | 2783.0   | 0.0    | 2783.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 63.8   | 2.3       |
| 10°-20°   | 168.9  | 6.1       |
| 20°-30°   | 296.0  | 10.6      |
| 30°-40°   | 488.0  | 17.5      |
| 40°-50°   | 710.1  | 25.5      |
| 50°-60°   | 804.6  | 28.9      |
| 60°-70°   | 230.1  | 8.3       |
| 70°-80°   | 17.9   | 0.6       |
| 80°-90°   | 3.7    | 0.1       |
| 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°    | 2783.0 | 100.0     |
| 0°-180°   | 2783.0 | 100.0     |

**Coefficient of Utilization**



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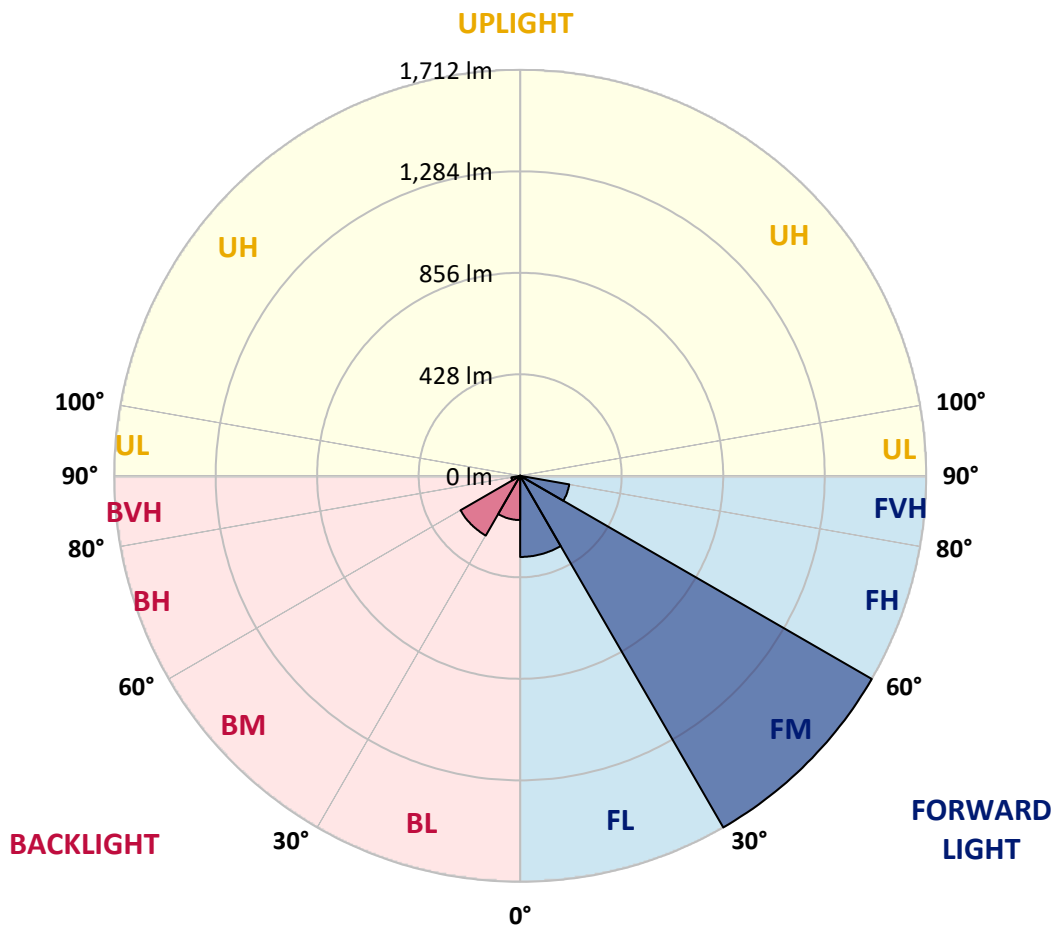
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 342.1  | 12.3      |                         |      |        |
| FM (30°-60°)   | 1712.0 | 61.5      |                         |      |        |
| FH (60°-80°)   | 210.2  | 7.6       |                         |      | G0/660 |
| FVH (80°-90°)  | 1.8    | 0.1       |                         |      | G0/10  |
| BL (0°-30°)    | 186.5  | 6.7       | B1/500                  |      |        |
| BM (30°-60°)   | 290.8  | 10.4      | B1/1000                 |      |        |
| BH (60°-80°)   | 37.7   | 1.4       | B0/110                  |      | G0/110 |
| BVH (80°-90°)  | 1.9    | 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-G0**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 78°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 715.5  | 715.5  | 715.5  | 715.5  | 715.5  | 715.5  | 715.5  | 715.5  | 715.5  | 715.5  | 715.5  |
| 2.5°  | 672.7  | 679.2  | 680.2  | 688.1  | 687.6  | 701.1  | 705.1  | 705.6  | 714.5  | 710.0  | 721.5  |
| 5°    | 653.8  | 650.3  | 648.8  | 662.8  | 666.7  | 678.7  | 688.6  | 694.6  | 713.0  | 719.5  | 731.4  |
| 7.5°  | 636.9  | 636.9  | 637.9  | 650.3  | 648.8  | 664.3  | 674.7  | 693.1  | 720.0  | 725.5  | 739.9  |
| 10°   | 620.5  | 614.5  | 622.0  | 634.9  | 645.9  | 652.8  | 674.7  | 692.1  | 723.5  | 739.4  | 759.3  |
| 12.5° | 612.0  | 615.0  | 616.0  | 625.5  | 637.4  | 658.3  | 670.2  | 699.1  | 748.4  | 757.8  | 779.2  |
| 15°   | 665.3  | 659.3  | 644.9  | 636.4  | 646.3  | 656.3  | 686.2  | 715.5  | 761.3  | 774.7  | 798.6  |
| 17.5° | 727.0  | 722.0  | 710.0  | 687.1  | 664.8  | 683.2  | 706.6  | 733.4  | 775.2  | 795.1  | 830.5  |
| 20°   | 807.6  | 799.6  | 787.7  | 742.9  | 723.5  | 703.6  | 728.4  | 760.3  | 798.1  | 816.0  | 852.3  |
| 22.5° | 903.6  | 903.6  | 876.7  | 822.5  | 782.2  | 763.3  | 773.7  | 792.1  | 823.5  | 847.9  | 883.7  |
| 25°   | 1003.6 | 1000.6 | 976.2  | 920.0  | 851.8  | 829.5  | 841.4  | 854.3  | 862.8  | 876.2  | 900.1  |
| 27.5° | 1118.0 | 1100.6 | 1069.8 | 1007.6 | 947.4  | 904.1  | 917.0  | 905.6  | 895.1  | 902.1  | 936.4  |
| 30°   | 1195.7 | 1206.6 | 1167.3 | 1107.6 | 1050.9 | 1002.6 | 1005.1 | 995.1  | 947.4  | 957.3  | 977.7  |
| 32.5° | 1276.3 | 1283.2 | 1261.3 | 1228.5 | 1171.8 | 1115.6 | 1095.2 | 1086.7 | 1050.9 | 1055.4 | 1035.5 |
| 35°   | 1343.4 | 1356.9 | 1337.5 | 1323.0 | 1306.6 | 1261.3 | 1205.1 | 1232.5 | 1174.8 | 1163.8 | 1112.1 |
| 37.5° | 1405.1 | 1401.2 | 1424.1 | 1409.1 | 1405.6 | 1373.8 | 1312.1 | 1317.6 | 1278.8 | 1276.3 | 1216.6 |
| 40°   | 1460.4 | 1461.4 | 1492.7 | 1499.7 | 1485.8 | 1429.0 | 1339.5 | 1382.8 | 1414.1 | 1417.1 | 1340.5 |
| 42.5° | 1506.2 | 1519.6 | 1546.5 | 1602.7 | 1581.8 | 1487.2 | 1367.8 | 1415.1 | 1531.5 | 1549.9 | 1457.9 |
| 45°   | 1546.0 | 1573.3 | 1606.7 | 1656.9 | 1645.0 | 1569.8 | 1438.5 | 1481.8 | 1656.9 | 1705.2 | 1568.4 |
| 47.5° | 1548.4 | 1584.3 | 1620.6 | 1695.2 | 1710.2 | 1614.1 | 1511.6 | 1587.3 | 1756.4 | 1808.7 | 1649.0 |
| 50°   | 1538.5 | 1557.4 | 1630.1 | 1711.2 | 1745.0 | 1686.3 | 1614.1 | 1675.8 | 1853.0 | 1885.8 | 1689.8 |
| 52.5° | 1420.6 | 1435.0 | 1580.8 | 1726.1 | 1807.7 | 1767.9 | 1750.0 | 1799.2 | 1951.5 | 1975.9 | 1728.1 |
| 55°   | 1184.2 | 1181.7 | 1382.3 | 1650.9 | 1836.5 | 1888.8 | 1877.8 | 1895.3 | 2065.4 | 2087.3 | 1737.5 |
| 57.5° | 810.0  | 855.3  | 1028.5 | 1374.8 | 1659.9 | 1860.4 | 1871.9 | 1843.0 | 1932.6 | 1941.0 | 1514.6 |
| 60°   | 436.9  | 455.8  | 595.1  | 917.5  | 1263.8 | 1516.1 | 1546.0 | 1493.7 | 1486.8 | 1462.9 | 1081.2 |
| 62.5° | 173.7  | 183.1  | 262.2  | 454.3  | 688.6  | 921.5  | 985.7  | 964.3  | 918.5  | 855.8  | 559.8  |
| 65°   | 82.6   | 88.6   | 130.4  | 212.5  | 305.5  | 384.1  | 448.3  | 468.2  | 345.3  | 311.0  | 184.6  |
| 67.5° | 56.2   | 60.7   | 95.0   | 121.4  | 109.0  | 113.9  | 148.3  | 137.8  | 81.1   | 69.2   | 51.3   |
| 70°   | 42.8   | 45.8   | 76.1   | 82.6   | 48.8   | 34.3   | 38.3   | 35.8   | 33.3   | 33.8   | 33.3   |
| 72.5° | 30.4   | 32.8   | 55.7   | 48.8   | 21.4   | 15.9   | 20.4   | 24.4   | 24.4   | 24.4   | 23.9   |
| 75°   | 18.4   | 20.9   | 32.3   | 18.9   | 8.5    | 8.5    | 12.9   | 16.4   | 17.4   | 17.9   | 16.9   |
| 77.5° | 9.5    | 11.9   | 10.9   | 5.5    | 5.5    | 6.5    | 9.5    | 11.4   | 12.4   | 12.4   | 11.9   |
| 80°   | 2.0    | 2.0    | 2.0    | 3.0    | 5.5    | 7.0    | 9.5    | 10.4   | 11.9   | 11.9   | 10.9   |
| 82.5° | 0.0    | 0.5    | 1.5    | 3.0    | 5.0    | 6.5    | 9.0    | 10.4   | 11.9   | 12.4   | 11.4   |
| 85°   | 0.0    | 0.5    | 1.0    | 2.0    | 3.5    | 4.0    | 3.5    | 3.0    | 3.0    | 3.0    | 3.0    |
| 87.5° | 0.0    | 0.0    | 0.5    | 0.5    | 0.5    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    | 1.0    |
| 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°    | 715.5  | 715.5 | 715.5 | 715.5 | 715.5 | 715.5 | 715.5 | 715.5 | 715.5 | 715.5 | 715.5 |
| 2.5°  | 722.5  | 724.0 | 721.5 | 721.0 | 719.0 | 725.0 | 710.5 | 707.1 | 716.0 | 707.5 | 709.5 |
| 5°    | 731.9  | 735.4 | 730.9 | 723.5 | 712.5 | 695.6 | 681.2 | 662.3 | 653.3 | 646.8 | 645.9 |
| 7.5°  | 738.9  | 741.4 | 736.9 | 713.0 | 680.2 | 637.4 | 605.5 | 582.2 | 563.8 | 558.3 | 549.3 |
| 10°   | 767.3  | 767.8 | 745.4 | 692.6 | 628.4 | 572.2 | 523.4 | 487.6 | 469.2 | 457.8 | 452.8 |
| 12.5° | 786.2  | 785.2 | 739.9 | 652.3 | 566.7 | 492.1 | 436.4 | 393.1 | 376.2 | 370.7 | 367.2 |
| 15°   | 810.0  | 804.6 | 727.0 | 611.0 | 487.1 | 406.5 | 356.3 | 326.4 | 324.9 | 321.4 | 324.9 |
| 17.5° | 829.0  | 813.5 | 708.0 | 535.9 | 411.0 | 334.9 | 302.0 | 304.0 | 308.0 | 311.5 | 312.0 |
| 20°   | 859.8  | 828.0 | 664.8 | 470.2 | 340.3 | 287.1 | 286.6 | 295.6 | 305.5 | 309.5 | 313.5 |
| 22.5° | 883.2  | 833.9 | 618.5 | 400.0 | 282.6 | 267.7 | 276.2 | 289.6 | 297.1 | 301.0 | 307.0 |
| 25°   | 891.7  | 817.5 | 556.8 | 329.9 | 254.8 | 258.7 | 271.7 | 280.6 | 290.1 | 294.6 | 292.1 |
| 27.5° | 900.1  | 809.1 | 483.1 | 271.7 | 239.8 | 252.8 | 263.7 | 272.7 | 275.7 | 281.6 | 285.6 |
| 30°   | 920.5  | 779.7 | 417.0 | 234.9 | 232.4 | 248.8 | 256.7 | 259.7 | 267.7 | 271.2 | 271.2 |
| 32.5° | 936.9  | 768.3 | 346.8 | 217.4 | 231.4 | 250.8 | 251.8 | 251.8 | 252.8 | 250.3 | 249.3 |
| 35°   | 970.8  | 728.9 | 284.1 | 207.0 | 230.9 | 251.3 | 253.8 | 245.3 | 222.4 | 213.5 | 211.0 |
| 37.5° | 1012.6 | 703.6 | 237.8 | 204.5 | 234.4 | 257.2 | 261.2 | 229.4 | 199.5 | 185.1 | 182.6 |
| 40°   | 1063.3 | 685.7 | 207.5 | 203.5 | 242.3 | 271.2 | 259.2 | 216.9 | 178.1 | 157.2 | 156.2 |
| 42.5° | 1122.5 | 669.2 | 187.1 | 203.0 | 252.3 | 285.6 | 257.2 | 206.5 | 156.2 | 142.3 | 144.3 |
| 45°   | 1169.8 | 660.3 | 173.2 | 199.5 | 255.8 | 294.1 | 258.7 | 188.1 | 147.3 | 138.3 | 139.3 |
| 47.5° | 1206.6 | 641.4 | 161.7 | 193.6 | 255.3 | 297.1 | 245.3 | 180.6 | 142.8 | 145.3 | 147.8 |
| 50°   | 1207.6 | 616.0 | 147.3 | 180.6 | 247.8 | 291.6 | 229.9 | 173.7 | 141.8 | 152.3 | 157.2 |
| 52.5° | 1194.2 | 580.2 | 131.9 | 162.2 | 230.4 | 272.7 | 215.9 | 170.7 | 137.3 | 136.3 | 142.3 |
| 55°   | 1146.4 | 513.0 | 106.0 | 131.4 | 194.6 | 224.9 | 203.5 | 165.2 | 123.9 | 112.5 | 113.4 |
| 57.5° | 926.5  | 367.7 | 78.1  | 94.0  | 137.8 | 164.7 | 183.6 | 162.7 | 111.5 | 95.5  | 96.0  |
| 60°   | 573.7  | 208.5 | 57.2  | 64.2  | 85.1  | 100.0 | 148.8 | 151.3 | 99.5  | 80.6  | 79.6  |
| 62.5° | 294.6  | 103.0 | 44.3  | 45.3  | 52.2  | 58.7  | 102.0 | 126.9 | 90.1  | 76.6  | 76.6  |
| 65°   | 98.5   | 50.8  | 38.8  | 34.8  | 34.8  | 36.3  | 61.7  | 88.1  | 76.1  | 64.2  | 64.2  |
| 67.5° | 42.3   | 37.8  | 33.8  | 30.4  | 27.9  | 26.4  | 34.8  | 51.3  | 56.7  | 48.8  | 46.8  |
| 70°   | 32.8   | 31.8  | 29.4  | 25.4  | 21.9  | 19.9  | 20.4  | 26.4  | 32.3  | 31.3  | 30.4  |
| 72.5° | 24.4   | 24.4  | 23.4  | 19.9  | 16.9  | 14.4  | 13.4  | 13.9  | 15.4  | 15.9  | 16.4  |
| 75°   | 16.9   | 17.4  | 17.4  | 15.4  | 12.4  | 10.4  | 9.0   | 7.5   | 6.0   | 5.0   | 4.5   |
| 77.5° | 11.4   | 11.9  | 12.9  | 11.4  | 9.5   | 7.0   | 5.5   | 4.0   | 2.5   | 1.0   | 1.0   |
| 80°   | 10.0   | 11.4  | 12.4  | 11.4  | 10.0  | 7.5   | 5.5   | 3.0   | 1.5   | 0.0   | 0.0   |
| 82.5° | 10.4   | 11.4  | 12.9  | 10.9  | 9.5   | 7.0   | 5.5   | 3.5   | 1.5   | 0.5   | 0.0   |
| 85°   | 2.5    | 2.5   | 3.0   | 3.5   | 4.5   | 5.0   | 4.0   | 2.5   | 1.5   | 0.5   | 0.0   |
| 87.5° | 1.0    | 1.0   | 1.0   | 1.0   | 1.0   | 0.5   | 0.5   | 0.5   | 0.5   | 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)