

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: P526711

Luminaire Tested: **GALN-SA1C-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

### Test Information

Test Method: LM-79-08  
Report Number: P526711  
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-SA1C-830-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 1050mA 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: 3438 lumens  
Efficiency: N/A  
Efficacy: 60.3 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): 57  
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



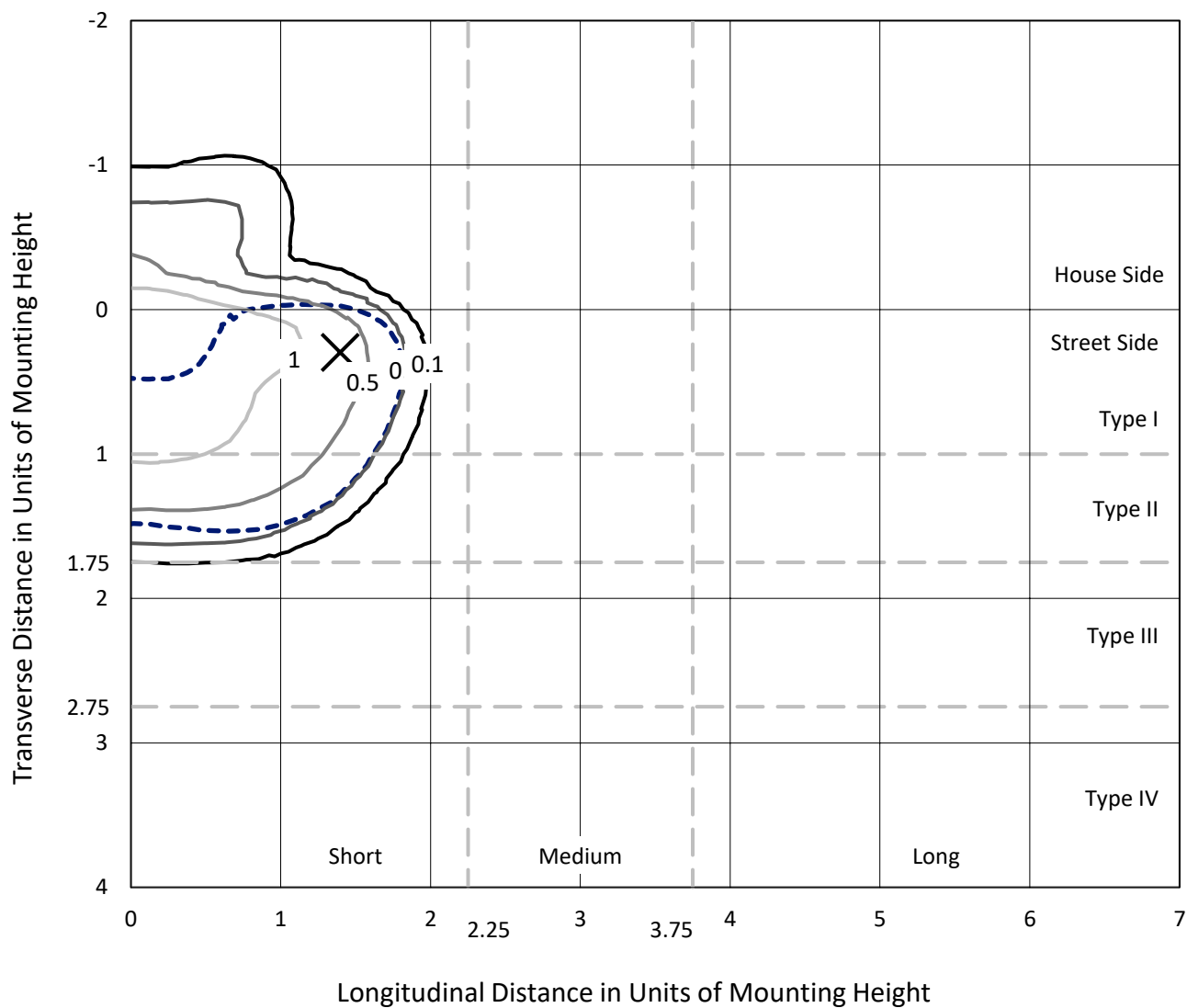
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

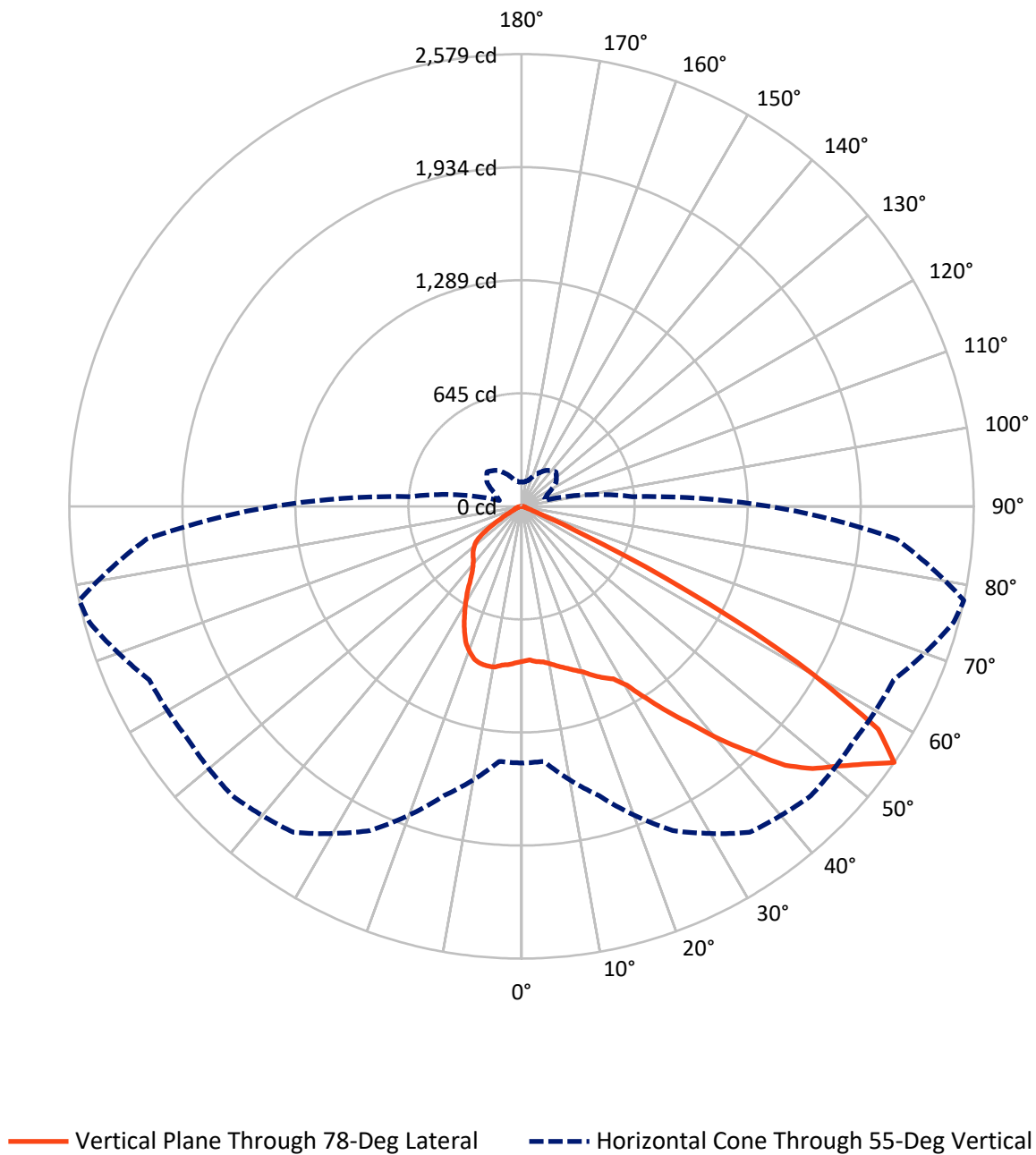


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type II - Short - N/A

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## Luminous Intensity Polar Plot



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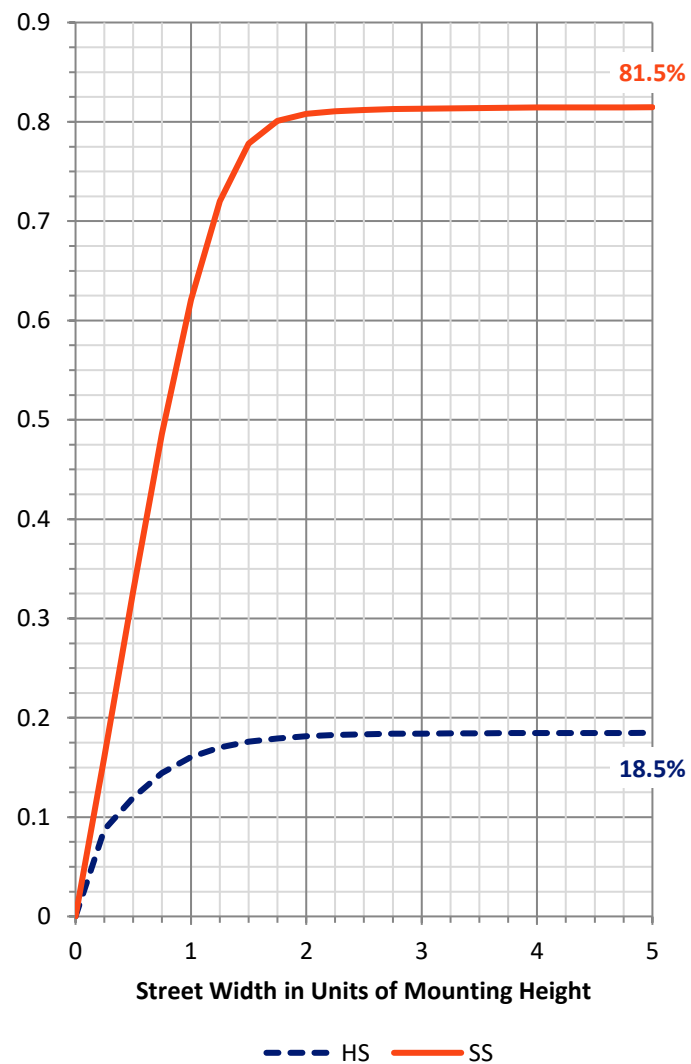
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 638.6    | 0.0    | 638.6  |
|                    | % Fixture | 18.6     | 0.0    | 18.6   |
| <b>Street Side</b> | Lumens    | 2799.4   | 0.0    | 2799.4 |
|                    | % Fixture | 81.4     | 0.0    | 81.4   |
| <b>Total</b>       | Lumens    | 3438.0   | 0.0    | 3438.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 78.8   | 2.3       |
| 10°-20°   | 208.6  | 6.1       |
| 20°-30°   | 365.6  | 10.6      |
| 30°-40°   | 602.9  | 17.5      |
| 40°-50°   | 877.2  | 25.5      |
| 50°-60°   | 994.0  | 28.9      |
| 60°-70°   | 284.2  | 8.3       |
| 70°-80°   | 22.1   | 0.6       |
| 80°-90°   | 4.6    | 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°    | 3438.0 | 100.0     |
| 0°-180°   | 3438.0 | 100.0     |

**Coefficient of Utilization**



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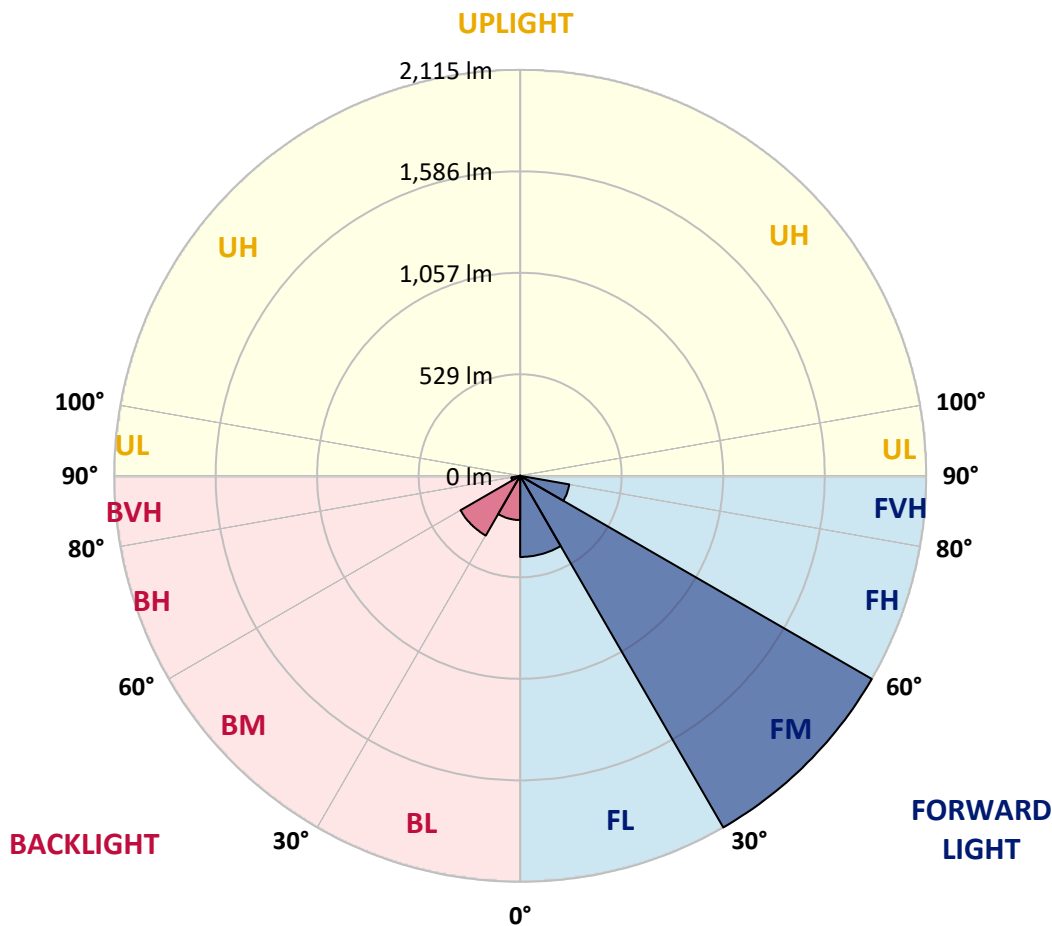
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|--------|-----------|-------------------------|------|--------|
|      |             |        |           | B                       | U    | G      |
| FL   | (0°-30°)    | 422.6  | 12.3      |                         |      |        |
| FM   | (30°-60°)   | 2114.9 | 61.5      |                         |      |        |
| FH   | (60°-80°)   | 259.7  | 7.6       |                         |      | G0/660 |
| FVH  | (80°-90°)   | 2.2    | 0.1       |                         |      | G0/10  |
| BL   | (0°-30°)    | 230.4  | 6.7       | B1/500                  |      |        |
| BM   | (30°-60°)   | 359.2  | 10.4      | B1/1000                 |      |        |
| BH   | (60°-80°)   | 46.6   | 1.4       | B0/110                  |      | G0/110 |
| BVH  | (80°-90°)   | 2.4    | 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°    | 883.9  | 883.9  | 883.9  | 883.9  | 883.9  | 883.9  | 883.9  | 883.9  | 883.9  | 883.9  | 883.9  |
| 2.5°  | 831.0  | 839.0  | 840.3  | 850.1  | 849.5  | 866.1  | 871.0  | 871.6  | 882.7  | 877.2  | 891.3  |
| 5°    | 807.7  | 803.4  | 801.5  | 818.8  | 823.7  | 838.4  | 850.7  | 858.1  | 880.8  | 888.8  | 903.6  |
| 7.5°  | 786.8  | 786.8  | 788.0  | 803.4  | 801.5  | 820.6  | 833.5  | 856.3  | 889.4  | 896.2  | 914.0  |
| 10°   | 766.5  | 759.1  | 768.4  | 784.3  | 797.9  | 806.5  | 833.5  | 855.0  | 893.7  | 913.4  | 938.0  |
| 12.5° | 756.1  | 759.7  | 761.0  | 772.7  | 787.4  | 813.2  | 828.0  | 863.6  | 924.5  | 936.2  | 962.6  |
| 15°   | 821.8  | 814.5  | 796.6  | 786.2  | 798.5  | 810.8  | 847.6  | 883.9  | 940.5  | 957.1  | 986.6  |
| 17.5° | 898.0  | 891.9  | 877.2  | 848.9  | 821.2  | 844.0  | 872.8  | 906.0  | 957.7  | 982.3  | 1025.9 |
| 20°   | 997.6  | 987.8  | 973.0  | 917.7  | 893.7  | 869.2  | 899.9  | 939.2  | 985.9  | 1008.1 | 1052.9 |
| 22.5° | 1116.3 | 1116.3 | 1083.1 | 1016.1 | 966.3  | 942.9  | 955.8  | 978.6  | 1017.3 | 1047.4 | 1091.7 |
| 25°   | 1239.8 | 1236.1 | 1206.0 | 1136.5 | 1052.3 | 1024.7 | 1039.4 | 1055.4 | 1065.9 | 1082.5 | 1112.0 |
| 27.5° | 1381.2 | 1359.7 | 1321.6 | 1244.7 | 1170.4 | 1116.9 | 1132.9 | 1118.7 | 1105.8 | 1114.4 | 1156.8 |
| 30°   | 1477.1 | 1490.6 | 1442.0 | 1368.3 | 1298.2 | 1238.6 | 1241.7 | 1229.4 | 1170.4 | 1182.6 | 1207.8 |
| 32.5° | 1576.7 | 1585.3 | 1558.2 | 1517.6 | 1447.6 | 1378.1 | 1352.9 | 1342.5 | 1298.2 | 1303.7 | 1279.2 |
| 35°   | 1659.6 | 1676.2 | 1652.3 | 1634.4 | 1614.2 | 1558.2 | 1488.8 | 1522.6 | 1451.3 | 1437.7 | 1373.8 |
| 37.5° | 1735.9 | 1730.9 | 1759.2 | 1740.8 | 1736.5 | 1697.1 | 1620.9 | 1627.7 | 1579.7 | 1576.7 | 1502.9 |
| 40°   | 1804.1 | 1805.3 | 1844.0 | 1852.6 | 1835.4 | 1765.4 | 1654.7 | 1708.2 | 1746.9 | 1750.6 | 1656.0 |
| 42.5° | 1860.6 | 1877.2 | 1910.4 | 1979.9 | 1954.1 | 1837.3 | 1689.8 | 1748.2 | 1892.0 | 1914.7 | 1801.0 |
| 45°   | 1909.8 | 1943.6 | 1984.8 | 2046.9 | 2032.1 | 1939.3 | 1777.0 | 1830.5 | 2046.9 | 2106.5 | 1937.5 |
| 47.5° | 1912.9 | 1957.1 | 2002.0 | 2094.2 | 2112.7 | 1994.0 | 1867.4 | 1960.8 | 2169.8 | 2234.4 | 2037.1 |
| 50°   | 1900.6 | 1924.0 | 2013.7 | 2113.9 | 2155.7 | 2083.2 | 1994.0 | 2070.2 | 2289.1 | 2329.6 | 2087.5 |
| 52.5° | 1754.9 | 1772.7 | 1952.8 | 2132.3 | 2233.1 | 2184.0 | 2161.8 | 2222.7 | 2410.8 | 2440.9 | 2134.8 |
| 55°   | 1462.9 | 1459.9 | 1707.6 | 2039.5 | 2268.8 | 2333.3 | 2319.8 | 2341.3 | 2551.5 | 2578.6 | 2146.5 |
| 57.5° | 1000.7 | 1056.6 | 1270.5 | 1698.4 | 2050.6 | 2298.3 | 2312.4 | 2276.8 | 2387.4 | 2397.9 | 1871.1 |
| 60°   | 539.7  | 563.0  | 735.2  | 1133.5 | 1561.3 | 1872.9 | 1909.8 | 1845.3 | 1836.7 | 1807.2 | 1335.7 |
| 62.5° | 214.5  | 226.2  | 323.9  | 561.2  | 850.7  | 1138.4 | 1217.7 | 1191.3 | 1134.7 | 1057.3 | 691.5  |
| 65°   | 102.0  | 109.4  | 161.0  | 262.5  | 377.4  | 474.5  | 553.8  | 578.4  | 426.6  | 384.2  | 228.0  |
| 67.5° | 69.5   | 75.0   | 117.4  | 150.0  | 134.6  | 140.8  | 183.2  | 170.3  | 100.2  | 85.4   | 63.3   |
| 70°   | 52.9   | 56.6   | 94.0   | 102.0  | 60.2   | 42.4   | 47.3   | 44.3   | 41.2   | 41.8   | 41.2   |
| 72.5° | 37.5   | 40.6   | 68.8   | 60.2   | 26.4   | 19.7   | 25.2   | 30.1   | 30.1   | 30.1   | 29.5   |
| 75°   | 22.7   | 25.8   | 40.0   | 23.4   | 10.4   | 10.4   | 16.0   | 20.3   | 21.5   | 22.1   | 20.9   |
| 77.5° | 11.7   | 14.8   | 13.5   | 6.8    | 6.8    | 8.0    | 11.7   | 14.1   | 15.4   | 15.4   | 14.8   |
| 80°   | 2.5    | 2.5    | 2.5    | 3.7    | 6.8    | 8.6    | 11.7   | 12.9   | 14.8   | 14.8   | 13.5   |
| 82.5° | 0.0    | 0.6    | 1.8    | 3.7    | 6.1    | 8.0    | 11.1   | 12.9   | 14.8   | 15.4   | 14.1   |
| 85°   | 0.0    | 0.6    | 1.2    | 2.5    | 4.3    | 4.9    | 4.3    | 3.7    | 3.7    | 3.7    | 3.7    |
| 87.5° | 0.0    | 0.0    | 0.6    | 0.6    | 0.6    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    | 1.2    |
| 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°    | 883.9  | 883.9  | 883.9 | 883.9 | 883.9 | 883.9 | 883.9 | 883.9 | 883.9 | 883.9 | 883.9 |
| 2.5°  | 892.5  | 894.4  | 891.3 | 890.7 | 888.2 | 895.6 | 877.8 | 873.5 | 884.5 | 874.1 | 876.5 |
| 5°    | 904.2  | 908.5  | 903.0 | 893.7 | 880.2 | 859.3 | 841.5 | 818.1 | 807.1 | 799.1 | 797.9 |
| 7.5°  | 912.8  | 915.9  | 910.3 | 880.8 | 840.3 | 787.4 | 748.1 | 719.2 | 696.4 | 689.7 | 678.6 |
| 10°   | 947.8  | 948.5  | 920.8 | 855.6 | 776.3 | 706.9 | 646.6 | 602.4 | 579.6 | 565.5 | 559.4 |
| 12.5° | 971.2  | 970.0  | 914.0 | 805.8 | 700.1 | 607.9 | 539.1 | 485.6 | 464.7 | 457.9 | 453.6 |
| 15°   | 1000.7 | 993.9  | 898.0 | 754.8 | 601.8 | 502.2 | 440.1 | 403.2 | 401.4 | 397.1 | 401.4 |
| 17.5° | 1024.1 | 1005.0 | 874.7 | 662.0 | 507.7 | 413.7 | 373.1 | 375.6 | 380.5 | 384.8 | 385.4 |
| 20°   | 1062.2 | 1022.8 | 821.2 | 580.9 | 420.4 | 354.7 | 354.1 | 365.1 | 377.4 | 382.3 | 387.2 |
| 22.5° | 1091.1 | 1030.2 | 764.0 | 494.2 | 349.1 | 330.7 | 341.1 | 357.7 | 367.0 | 371.9 | 379.3 |
| 25°   | 1101.5 | 1009.9 | 687.8 | 407.5 | 314.7 | 319.6 | 335.6 | 346.7 | 358.4 | 363.9 | 360.8 |
| 27.5° | 1112.0 | 999.5  | 596.9 | 335.6 | 296.3 | 312.3 | 325.8 | 336.8 | 340.5 | 347.9 | 352.8 |
| 30°   | 1137.2 | 963.2  | 515.1 | 290.1 | 287.1 | 307.3 | 317.2 | 320.9 | 330.7 | 335.0 | 335.0 |
| 32.5° | 1157.4 | 949.1  | 428.4 | 268.6 | 285.8 | 309.8 | 311.0 | 311.0 | 312.3 | 309.2 | 308.0 |
| 35°   | 1199.2 | 900.5  | 351.0 | 255.7 | 285.2 | 310.4 | 313.5 | 303.0 | 274.8 | 263.7 | 260.6 |
| 37.5° | 1250.9 | 869.2  | 293.8 | 252.6 | 289.5 | 317.8 | 322.7 | 283.4 | 246.5 | 228.7 | 225.6 |
| 40°   | 1313.6 | 847.0  | 256.3 | 251.4 | 299.3 | 335.0 | 320.2 | 268.0 | 220.1 | 194.2 | 193.0 |
| 42.5° | 1386.7 | 826.7  | 231.1 | 250.8 | 311.6 | 352.8 | 317.8 | 255.1 | 193.0 | 175.8 | 178.3 |
| 45°   | 1445.1 | 815.7  | 213.9 | 246.5 | 315.9 | 363.3 | 319.6 | 232.3 | 181.9 | 170.9 | 172.1 |
| 47.5° | 1490.6 | 792.3  | 199.8 | 239.1 | 315.3 | 367.0 | 303.0 | 223.1 | 176.4 | 179.5 | 182.6 |
| 50°   | 1491.8 | 761.0  | 181.9 | 223.1 | 306.1 | 360.2 | 284.0 | 214.5 | 175.2 | 188.1 | 194.2 |
| 52.5° | 1475.2 | 716.7  | 162.9 | 200.4 | 284.6 | 336.8 | 266.8 | 210.8 | 169.7 | 168.4 | 175.8 |
| 55°   | 1416.2 | 633.7  | 130.9 | 162.3 | 240.3 | 277.8 | 251.4 | 204.1 | 153.1 | 138.9 | 140.1 |
| 57.5° | 1144.5 | 454.2  | 96.5  | 116.2 | 170.3 | 203.5 | 226.8 | 201.0 | 137.7 | 118.0 | 118.6 |
| 60°   | 708.7  | 257.6  | 70.7  | 79.3  | 105.1 | 123.6 | 183.8 | 186.9 | 122.9 | 99.6  | 98.3  |
| 62.5° | 363.9  | 127.2  | 54.7  | 55.9  | 64.5  | 72.5  | 126.0 | 156.7 | 111.3 | 94.7  | 94.7  |
| 65°   | 121.7  | 62.7   | 47.9  | 43.0  | 43.0  | 44.9  | 76.2  | 108.8 | 94.0  | 79.3  | 79.3  |
| 67.5° | 52.2   | 46.7   | 41.8  | 37.5  | 34.4  | 32.6  | 43.0  | 63.3  | 70.1  | 60.2  | 57.8  |
| 70°   | 40.6   | 39.3   | 36.3  | 31.3  | 27.0  | 24.6  | 25.2  | 32.6  | 40.0  | 38.7  | 37.5  |
| 72.5° | 30.1   | 30.1   | 28.9  | 24.6  | 20.9  | 17.8  | 16.6  | 17.2  | 19.1  | 19.7  | 20.3  |
| 75°   | 20.9   | 21.5   | 21.5  | 19.1  | 15.4  | 12.9  | 11.1  | 9.2   | 7.4   | 6.1   | 5.5   |
| 77.5° | 14.1   | 14.8   | 16.0  | 14.1  | 11.7  | 8.6   | 6.8   | 4.9   | 3.1   | 1.2   | 1.2   |
| 80°   | 12.3   | 14.1   | 15.4  | 14.1  | 12.3  | 9.2   | 6.8   | 3.7   | 1.8   | 0.0   | 0.0   |
| 82.5° | 12.9   | 14.1   | 16.0  | 13.5  | 11.7  | 8.6   | 6.8   | 4.3   | 1.8   | 0.6   | 0.0   |
| 85°   | 3.1    | 3.1    | 3.7   | 4.3   | 5.5   | 6.1   | 4.9   | 3.1   | 1.8   | 0.6   | 0.0   |
| 87.5° | 1.2    | 1.2    | 1.2   | 1.2   | 1.2   | 0.6   | 0.6   | 0.6   | 0.6   | 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)