

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: P200613

Luminaire Tested: **GWC-AF-01-LED-E1-SL3-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200613  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
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-SL3-8030-800  
Description: GALLEON WALL LUMINAIRE  
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4192 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - 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



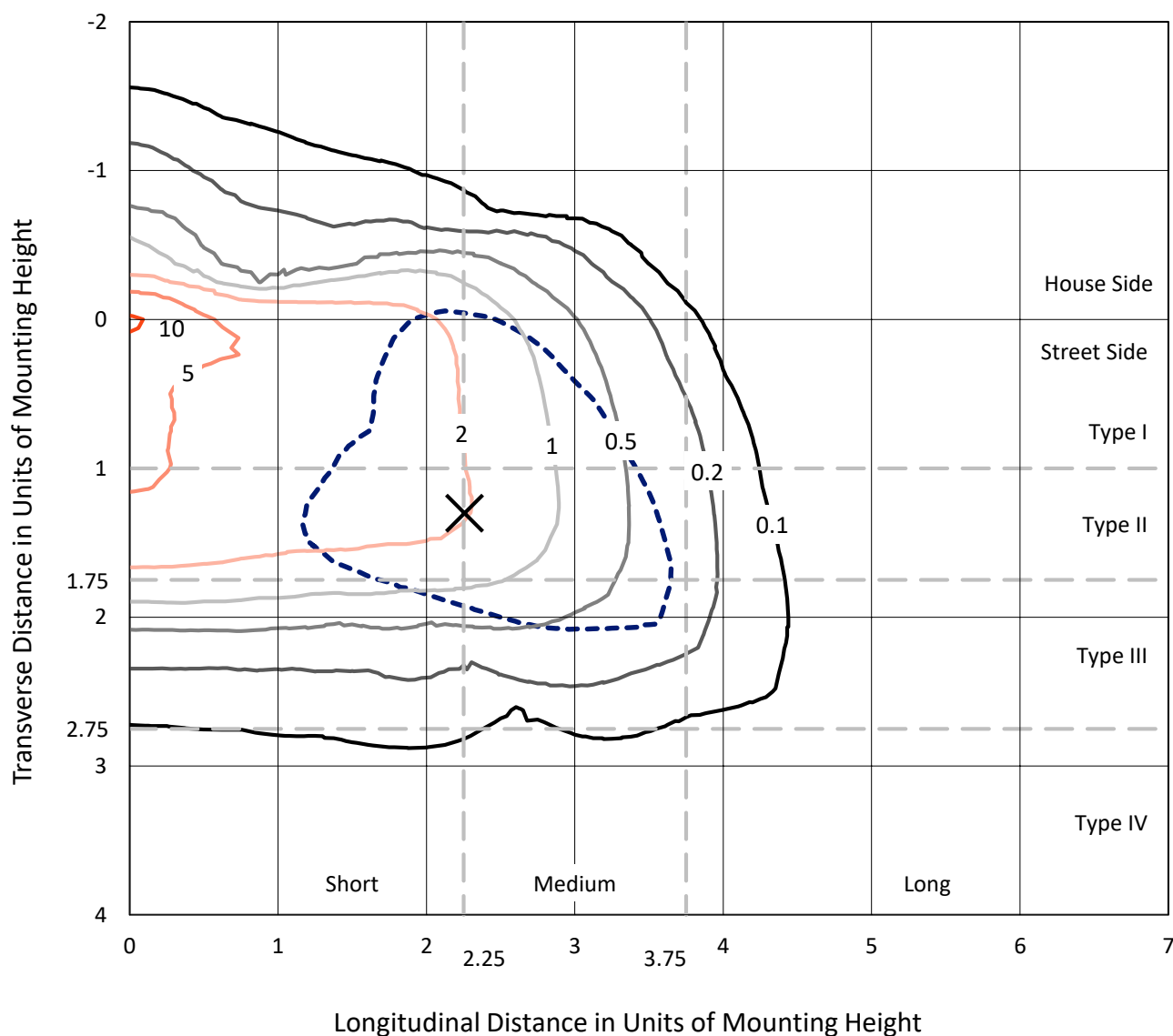
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

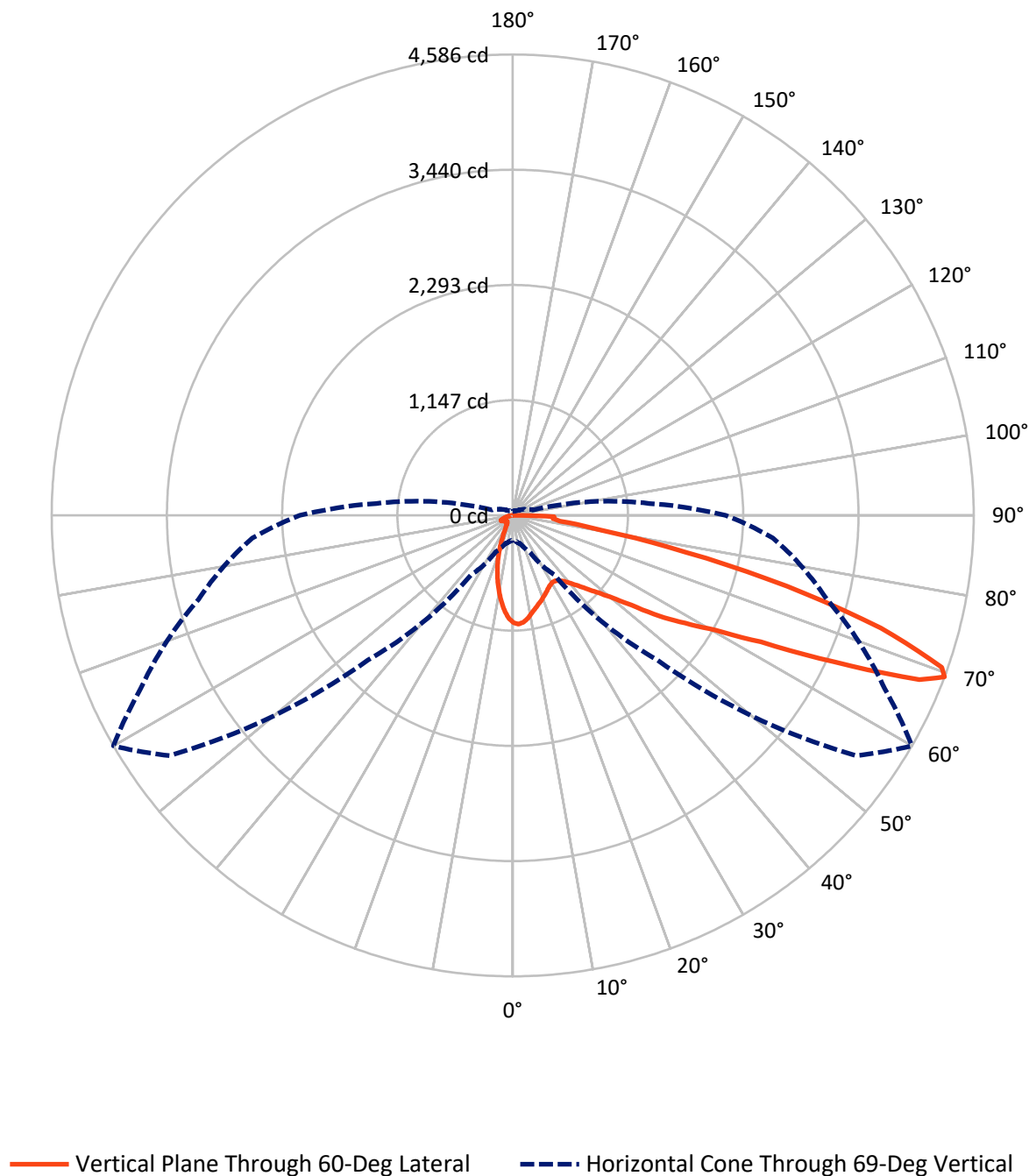


Based on 10 foot mounting height. Maximum calculated value = 10.7 fc  
 Type III - Medium - Non-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 596.4    | 0.0    | 596.4  |
|                    | % Fixture | 14.2     | 0.0    | 14.2   |
| <b>Street Side</b> | Lumens    | 3595.6   | 0.0    | 3595.6 |
|                    | % Fixture | 85.8     | 0.0    | 85.8   |
| <b>Total</b>       | Lumens    | 4192.0   | 0.0    | 4192.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 90.3   | 2.2       |
| 10°-20°   | 192.4  | 4.6       |
| 20°-30°   | 245.2  | 5.8       |
| 30°-40°   | 337.1  | 8.0       |
| 40°-50°   | 546.9  | 13.0      |
| 50°-60°   | 877.1  | 20.9      |
| 60°-70°   | 1167.4 | 27.8      |
| 70°-80°   | 630.3  | 15.0      |
| 80°-90°   | 105.2  | 2.5       |
| 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°    | 4192.0 | 100.0     |
| 0°-180°   | 4192.0 | 100.0     |

**Coefficient of Utilization**



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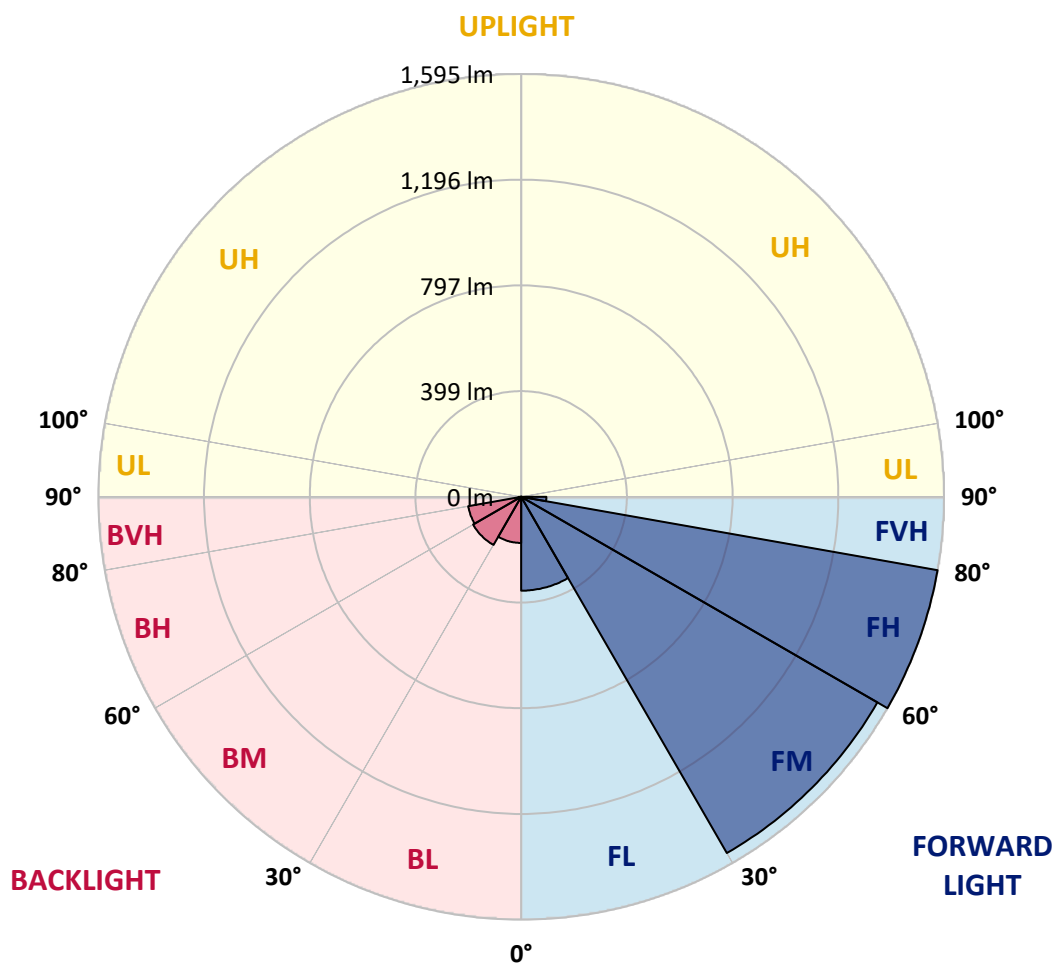
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 354.0  | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 1551.6 | 37.0      |                         |      |         |
| FH   | (60°-80°)   | 1595.0 | 38.0      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 95.0   | 2.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 174.0  | 4.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 209.5  | 5.0       | B0/220                  |      |         |
| BH   | (60°-80°)   | 202.8  | 4.8       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 10.1   | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1068.2 | 1068.2 | 1068.2 | 1068.2 | 1068.2 | 1068.2 | 1068.2 | 1068.2 | 1068.2 | 1068.2 | 1068.2 |
| 2.5°  | 1090.1 | 1092.5 | 1091.5 | 1090.9 | 1092.7 | 1089.9 | 1084.0 | 1082.2 | 1079.3 | 1072.6 | 1061.3 |
| 5°    | 1049.2 | 1056.4 | 1056.0 | 1061.5 | 1070.6 | 1073.0 | 1070.4 | 1070.8 | 1065.6 | 1057.3 | 1038.4 |
| 7.5°  | 978.5  | 981.5  | 983.1  | 995.1  | 1011.7 | 1025.1 | 1036.4 | 1040.0 | 1037.6 | 1030.5 | 1006.2 |
| 10°   | 905.6  | 908.0  | 911.9  | 925.8  | 946.9  | 965.3  | 986.8  | 999.1  | 1004.4 | 1003.2 | 976.0  |
| 12.5° | 843.0  | 845.4  | 850.5  | 866.3  | 891.4  | 914.1  | 945.3  | 960.7  | 973.2  | 980.7  | 951.5  |
| 15°   | 786.9  | 792.2  | 797.0  | 815.3  | 843.4  | 873.2  | 908.4  | 927.9  | 947.3  | 964.1  | 929.9  |
| 17.5° | 743.2  | 748.4  | 751.3  | 767.9  | 797.8  | 834.3  | 875.6  | 898.5  | 922.8  | 950.3  | 908.4  |
| 20°   | 717.9  | 720.3  | 719.1  | 728.4  | 755.3  | 794.0  | 843.0  | 869.5  | 898.9  | 937.4  | 886.9  |
| 22.5° | 710.8  | 711.0  | 706.5  | 705.5  | 722.9  | 755.5  | 808.2  | 840.4  | 876.4  | 928.9  | 868.5  |
| 25°   | 728.0  | 727.4  | 715.2  | 705.3  | 707.1  | 726.2  | 774.6  | 812.0  | 857.6  | 927.0  | 854.3  |
| 27.5° | 766.3  | 768.1  | 750.1  | 731.4  | 713.0  | 712.4  | 749.0  | 788.5  | 842.2  | 935.3  | 848.3  |
| 30°   | 819.9  | 823.0  | 803.7  | 780.0  | 745.4  | 716.8  | 739.1  | 774.6  | 832.7  | 952.6  | 847.3  |
| 32.5° | 878.6  | 881.9  | 867.3  | 842.4  | 797.0  | 744.4  | 746.0  | 775.8  | 832.3  | 976.7  | 854.1  |
| 35°   | 941.2  | 944.9  | 937.4  | 916.3  | 865.9  | 795.2  | 772.3  | 795.4  | 845.4  | 1013.5 | 872.6  |
| 37.5° | 1011.1 | 1016.8 | 1018.8 | 998.7  | 944.9  | 862.2  | 815.5  | 832.7  | 875.2  | 1064.7 | 906.4  |
| 40°   | 1111.7 | 1119.6 | 1119.0 | 1090.3 | 1035.4 | 952.8  | 882.1  | 886.5  | 921.6  | 1133.2 | 960.5  |
| 42.5° | 1304.5 | 1306.1 | 1255.7 | 1193.1 | 1135.0 | 1047.9 | 960.7  | 957.0  | 985.6  | 1219.9 | 1040.0 |
| 45°   | 1549.7 | 1543.0 | 1430.9 | 1310.0 | 1239.1 | 1157.3 | 1062.9 | 1045.1 | 1066.8 | 1325.6 | 1139.7 |
| 47.5° | 1753.2 | 1737.9 | 1596.1 | 1429.2 | 1349.3 | 1276.2 | 1183.0 | 1151.8 | 1163.8 | 1445.4 | 1268.5 |
| 50°   | 1823.9 | 1812.4 | 1694.9 | 1528.5 | 1453.5 | 1421.1 | 1330.8 | 1286.7 | 1289.9 | 1588.4 | 1419.3 |
| 52.5° | 1808.7 | 1807.1 | 1728.7 | 1593.9 | 1551.1 | 1573.4 | 1540.2 | 1480.5 | 1448.9 | 1747.2 | 1582.1 |
| 55°   | 1772.9 | 1776.3 | 1748.0 | 1670.0 | 1662.7 | 1720.4 | 1813.8 | 1769.6 | 1671.4 | 1907.3 | 1750.4 |
| 57.5° | 1648.3 | 1657.3 | 1719.6 | 1765.8 | 1842.3 | 1928.2 | 2034.1 | 2021.6 | 1911.0 | 2080.5 | 1950.5 |
| 60°   | 1328.0 | 1348.6 | 1515.9 | 1747.2 | 2027.2 | 2295.7 | 2343.1 | 2314.0 | 2158.0 | 2295.3 | 2214.7 |
| 62.5° | 930.5  | 952.0  | 1150.8 | 1512.7 | 1996.8 | 2710.9 | 2895.5 | 2769.8 | 2512.8 | 2611.8 | 2556.8 |
| 65°   | 498.1  | 508.5  | 660.4  | 1049.6 | 1685.8 | 2796.5 | 3702.9 | 3511.5 | 3074.6 | 3002.1 | 2849.4 |
| 67.5° | 274.8  | 280.5  | 338.6  | 529.9  | 1079.7 | 2462.6 | 4217.3 | 4361.8 | 3776.6 | 3261.9 | 2796.1 |
| 69°   | 248.5  | 253.7  | 291.8  | 401.4  | 722.5  | 2036.1 | 4167.0 | 4586.0 | 4084.4 | 3236.1 | 2599.3 |
| 70°   | 243.0  | 247.9  | 282.1  | 370.0  | 584.8  | 1678.3 | 3998.8 | 4528.7 | 4157.7 | 3144.0 | 2427.6 |
| 72.5° | 218.7  | 224.0  | 257.2  | 332.3  | 499.8  | 836.7  | 3167.5 | 3829.1 | 3774.8 | 2726.0 | 1841.3 |
| 75°   | 203.9  | 208.8  | 265.1  | 325.4  | 478.5  | 529.5  | 2088.2 | 2822.0 | 2774.9 | 1906.9 | 992.9  |
| 77.5° | 87.3   | 86.9   | 122.9  | 275.4  | 485.6  | 512.7  | 1122.1 | 1763.0 | 1608.5 | 815.1  | 285.1  |
| 80°   | 58.3   | 57.3   | 58.3   | 81.0   | 445.3  | 515.6  | 587.9  | 894.8  | 675.9  | 207.8  | 140.5  |
| 82.5° | 50.2   | 49.4   | 51.2   | 49.4   | 156.5  | 588.5  | 499.8  | 475.9  | 321.4  | 118.1  | 69.7   |
| 85°   | 33.8   | 32.4   | 44.1   | 44.3   | 73.9   | 522.9  | 562.9  | 402.0  | 260.0  | 70.1   | 34.4   |
| 87.5° | 16.2   | 15.8   | 25.7   | 31.4   | 43.3   | 212.4  | 631.6  | 411.9  | 262.2  | 35.8   | 16.4   |
| 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°    | 1068.2 | 1068.2 | 1068.2 | 1068.2 | 1068.2 | 1068.2 | 1068.2 | 1068.2 | 1068.2 | 1068.2 | 1068.2 |
| 2.5°  | 1057.9 | 1049.6 | 1041.5 | 1031.7 | 1021.6 | 1010.3 | 1004.6 | 998.9  | 997.5  | 995.9  | 990.2  |
| 5°    | 1028.7 | 1017.0 | 996.7  | 974.4  | 950.9  | 928.1  | 910.6  | 899.7  | 891.4  | 887.2  | 879.7  |
| 7.5°  | 991.0  | 973.8  | 938.4  | 899.9  | 860.4  | 824.4  | 793.2  | 773.5  | 754.9  | 746.2  | 736.3  |
| 10°   | 955.2  | 929.5  | 874.4  | 817.7  | 761.0  | 706.5  | 655.3  | 619.0  | 586.8  | 568.8  | 556.1  |
| 12.5° | 924.4  | 889.2  | 812.8  | 736.1  | 658.3  | 580.8  | 504.0  | 443.7  | 393.3  | 366.7  | 353.2  |
| 15°   | 894.4  | 851.9  | 754.3  | 656.9  | 557.1  | 451.6  | 350.7  | 282.3  | 240.6  | 224.0  | 218.3  |
| 17.5° | 867.3  | 812.8  | 695.6  | 577.1  | 452.6  | 325.0  | 235.7  | 198.0  | 182.0  | 176.6  | 174.8  |
| 20°   | 837.9  | 773.3  | 634.6  | 493.7  | 343.6  | 227.2  | 184.1  | 167.5  | 161.0  | 159.4  | 158.6  |
| 22.5° | 809.6  | 734.5  | 576.3  | 404.4  | 246.8  | 175.4  | 158.2  | 151.3  | 150.3  | 151.7  | 151.7  |
| 25°   | 785.5  | 699.6  | 513.3  | 311.0  | 181.2  | 147.6  | 141.5  | 139.9  | 143.8  | 149.0  | 150.1  |
| 27.5° | 767.5  | 671.1  | 446.3  | 229.6  | 144.4  | 128.4  | 128.2  | 130.8  | 140.3  | 150.5  | 152.5  |
| 30°   | 755.1  | 643.9  | 374.6  | 165.6  | 121.1  | 113.0  | 116.2  | 121.9  | 135.9  | 150.3  | 154.1  |
| 32.5° | 748.8  | 623.9  | 299.9  | 128.2  | 103.7  | 99.2   | 104.7  | 111.6  | 125.3  | 138.7  | 143.8  |
| 35°   | 753.7  | 609.1  | 229.4  | 106.9  | 91.5   | 88.1   | 93.8   | 100.4  | 108.5  | 114.2  | 118.1  |
| 37.5° | 771.9  | 603.2  | 173.1  | 95.8   | 83.2   | 80.0   | 84.4   | 88.3   | 91.5   | 93.1   | 95.0   |
| 40°   | 811.2  | 609.5  | 138.7  | 90.1   | 78.6   | 74.5   | 76.3   | 77.8   | 79.8   | 81.4   | 82.2   |
| 42.5° | 869.1  | 628.4  | 124.3  | 87.9   | 76.1   | 70.3   | 69.9   | 70.5   | 73.1   | 76.1   | 76.7   |
| 45°   | 950.1  | 661.6  | 123.3  | 89.3   | 74.9   | 66.8   | 65.0   | 65.8   | 69.9   | 74.5   | 75.3   |
| 47.5° | 1053.6 | 712.2  | 131.4  | 93.6   | 75.9   | 65.0   | 62.0   | 63.0   | 68.0   | 74.3   | 75.3   |
| 50°   | 1179.0 | 782.9  | 145.0  | 99.8   | 80.4   | 65.4   | 61.0   | 61.6   | 66.8   | 73.7   | 74.7   |
| 52.5° | 1327.0 | 883.1  | 159.8  | 105.9  | 85.0   | 68.0   | 61.8   | 60.3   | 65.2   | 71.3   | 72.5   |
| 55°   | 1491.6 | 1011.7 | 175.0  | 111.4  | 87.5   | 71.3   | 63.4   | 58.7   | 62.2   | 67.2   | 68.2   |
| 57.5° | 1693.7 | 1191.5 | 201.3  | 116.6  | 89.1   | 73.5   | 65.0   | 57.1   | 58.3   | 62.0   | 62.8   |
| 60°   | 1967.3 | 1445.8 | 247.7  | 125.3  | 92.7   | 74.3   | 64.8   | 55.7   | 54.5   | 56.5   | 56.9   |
| 62.5° | 2295.1 | 1722.1 | 286.3  | 136.3  | 98.8   | 74.9   | 63.6   | 54.7   | 51.2   | 51.2   | 51.6   |
| 65°   | 2489.7 | 1796.0 | 264.9  | 145.4  | 103.9  | 74.3   | 62.2   | 53.7   | 48.8   | 46.6   | 46.8   |
| 67.5° | 2324.7 | 1579.5 | 227.0  | 147.2  | 103.7  | 71.5   | 59.9   | 51.8   | 46.4   | 42.9   | 42.7   |
| 69°   | 2117.9 | 1362.8 | 210.0  | 142.4  | 98.8   | 67.8   | 57.1   | 49.8   | 44.5   | 40.9   | 40.7   |
| 70°   | 1951.3 | 1230.6 | 198.9  | 137.1  | 93.6   | 65.2   | 54.9   | 48.0   | 43.1   | 39.7   | 39.3   |
| 72.5° | 1418.7 | 806.4  | 169.9  | 117.9  | 77.2   | 54.7   | 47.4   | 42.1   | 38.5   | 36.4   | 36.0   |
| 75°   | 709.0  | 384.5  | 137.9  | 95.6   | 59.1   | 43.7   | 38.9   | 35.2   | 33.4   | 33.0   | 32.8   |
| 77.5° | 232.9  | 176.2  | 98.6   | 71.3   | 43.9   | 34.2   | 31.4   | 28.8   | 28.3   | 29.6   | 29.2   |
| 80°   | 128.0  | 102.5  | 62.6   | 47.2   | 30.0   | 25.1   | 24.7   | 23.3   | 23.9   | 25.9   | 25.5   |
| 82.5° | 65.2   | 53.3   | 38.7   | 28.3   | 20.2   | 18.0   | 19.6   | 18.8   | 19.6   | 21.5   | 21.3   |
| 85°   | 32.2   | 29.2   | 24.5   | 17.2   | 13.4   | 11.5   | 14.0   | 14.6   | 15.0   | 16.4   | 16.4   |
| 87.5° | 18.6   | 17.2   | 13.0   | 8.1    | 6.7    | 6.1    | 8.1    | 7.9    | 9.3    | 10.1   | 9.9    |
| 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)