

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: P197743

Luminaire Tested: **TT-C5-LED-E1-5WQ-PM-LWR-LW-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197743  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115483)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TT-C5-LED-E1-5WQ-PM-LWR-LW-7050  
Description: TOPTIER LED AREA/SITE LUMINAIRE  
WIDE DISTRIBUTION WITH LumaWatt WIRELESS SENSOR  
Light Source: (160) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8027.3 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G3

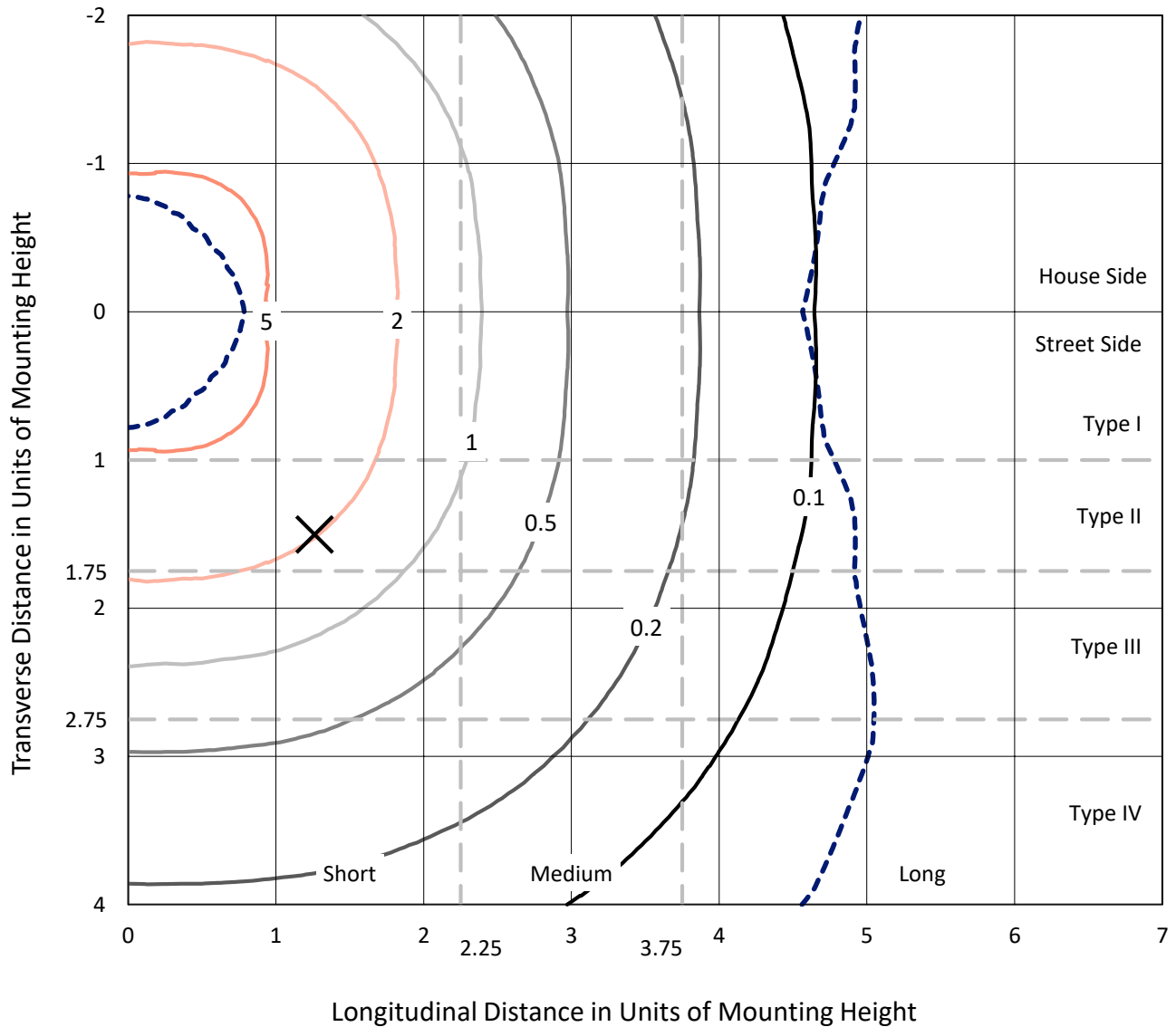
Input Watts (W): 77  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

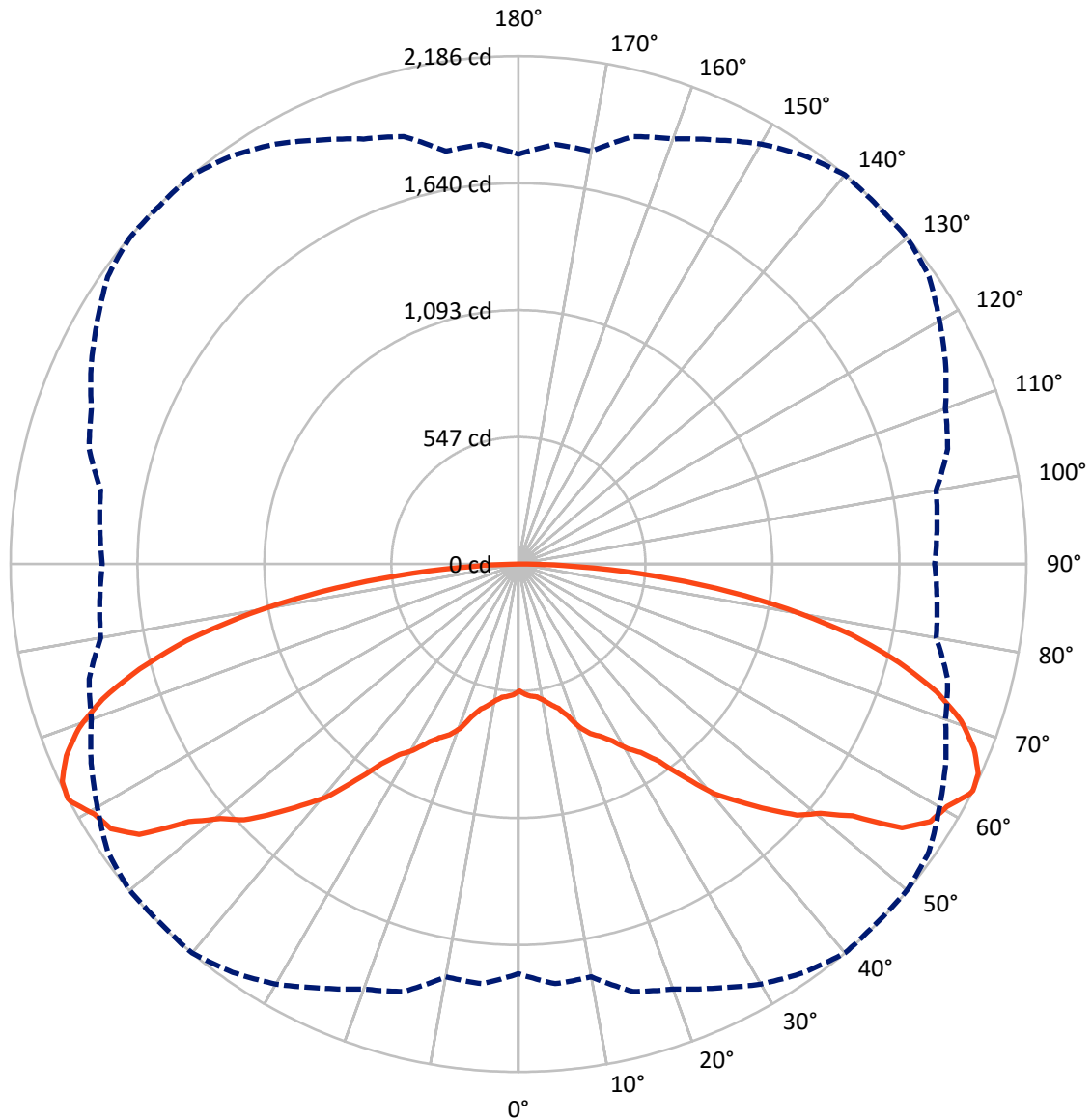


Based on 10 foot mounting height. Maximum calculated value = 6.2 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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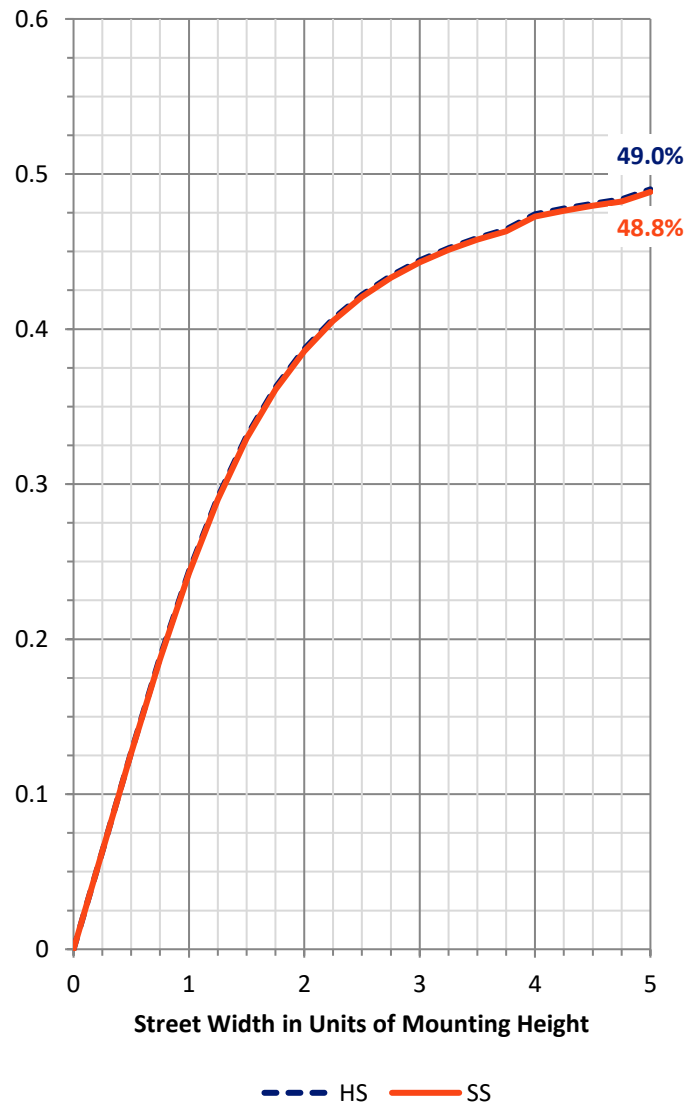
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4013.6   | 0.0    | 4013.6 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4013.6   | 0.0    | 4013.6 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 8027.3   | 0.0    | 8027.3 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 55.1   | 0.7       |
| 10°-20°   | 187.5  | 2.3       |
| 20°-30°   | 381.3  | 4.7       |
| 30°-40°   | 657.1  | 8.2       |
| 40°-50°   | 1106.9 | 13.8      |
| 50°-60°   | 1629.9 | 20.3      |
| 60°-70°   | 1938.3 | 24.1      |
| 70°-80°   | 1569.1 | 19.5      |
| 80°-90°   | 502.0  | 6.3       |
| 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°    | 8027.3 | 100.0     |
| 0°-180°   | 8027.3 | 100.0     |



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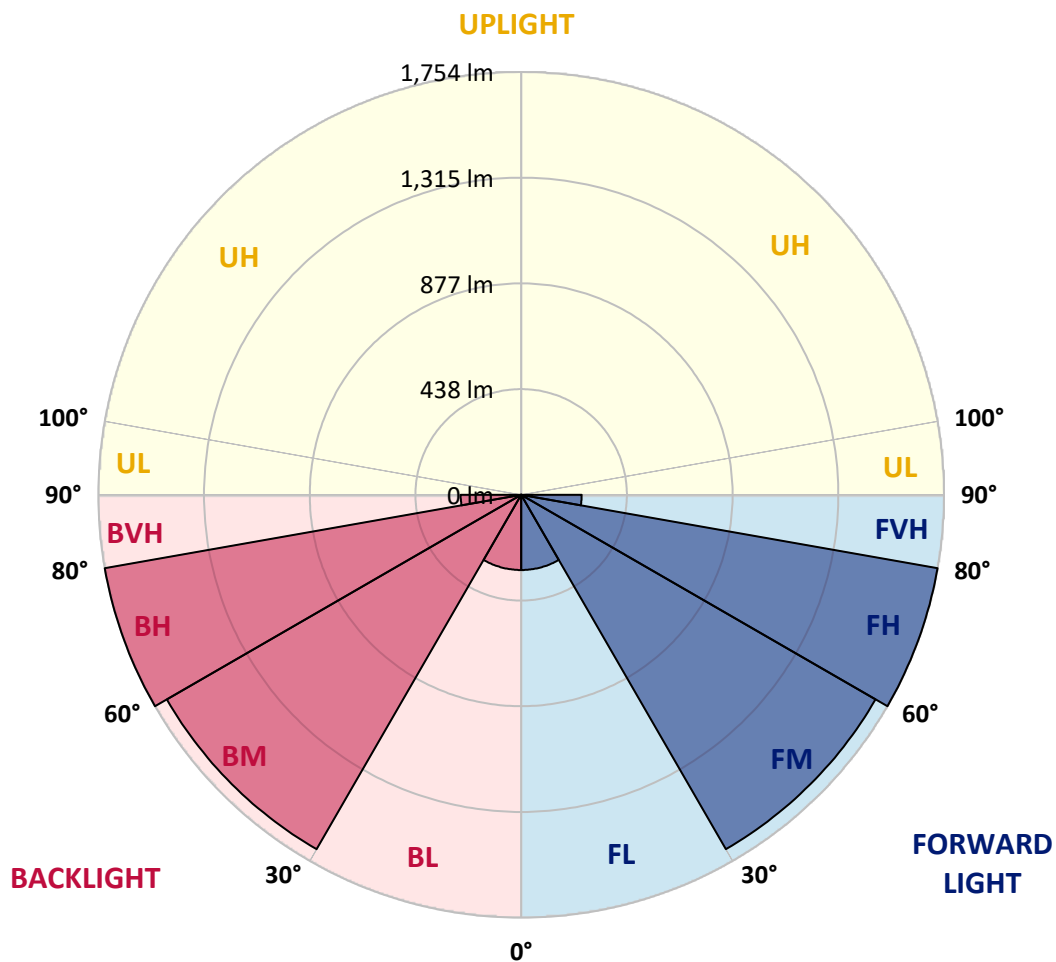
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 312.0  | 3.9       |                         |      |         |
| FM (30°-60°)   | 1697.0 | 21.1      |                         |      |         |
| FH (60°-80°)   | 1753.7 | 21.8      |                         |      | G1/1800 |
| FVH (80°-90°)  | 251.0  | 3.1       |                         |      | G3/500  |
| BL (0°-30°)    | 312.0  | 3.9       | B1/500                  |      |         |
| BM (30°-60°)   | 1697.0 | 21.1      | B2/2500                 |      |         |
| BH (60°-80°)   | 1753.7 | 21.8      | B3/2500                 |      | G1/1800 |
| BVH (80°-90°)  | 251.0  | 3.1       |                         |      | G3/500  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 10°    | 15°    | 20°    | 25°    | 30°    | 35°    | 40°    | 45°    | 50°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 546.5  | 546.5  | 546.5  | 546.5  | 546.5  | 546.5  | 546.5  | 546.5  | 546.5  | 546.5  | 546.5  |
| 2.5°  | 563.7  | 563.7  | 563.7  | 563.7  | 563.7  | 563.7  | 562.0  | 563.7  | 562.0  | 562.0  | 562.0  |
| 5°    | 574.6  | 574.6  | 574.6  | 574.6  | 572.9  | 572.9  | 571.3  | 571.3  | 571.3  | 569.8  | 571.3  |
| 7.5°  | 579.2  | 579.2  | 579.2  | 579.2  | 577.6  | 577.6  | 577.6  | 577.6  | 577.6  | 577.6  | 577.6  |
| 10°   | 590.0  | 590.0  | 591.6  | 593.1  | 596.2  | 596.2  | 596.2  | 597.9  | 596.2  | 596.2  | 596.2  |
| 12.5° | 613.3  | 611.8  | 614.9  | 617.9  | 621.1  | 622.7  | 622.7  | 622.7  | 621.1  | 621.1  | 622.7  |
| 15°   | 646.0  | 642.7  | 644.4  | 646.0  | 647.5  | 649.0  | 649.0  | 647.5  | 644.4  | 644.4  | 644.4  |
| 17.5° | 687.8  | 683.2  | 681.7  | 680.1  | 680.1  | 683.2  | 686.2  | 684.7  | 686.2  | 684.7  | 686.2  |
| 20°   | 737.6  | 734.4  | 734.4  | 734.4  | 735.9  | 742.2  | 748.5  | 751.5  | 750.0  | 746.8  | 751.5  |
| 22.5° | 770.1  | 771.8  | 779.4  | 777.9  | 776.3  | 782.6  | 790.3  | 796.6  | 793.3  | 788.7  | 791.8  |
| 25°   | 805.9  | 805.9  | 816.6  | 821.4  | 816.6  | 816.6  | 819.9  | 824.4  | 821.4  | 818.3  | 821.4  |
| 27.5° | 846.2  | 846.2  | 850.8  | 855.6  | 852.5  | 852.5  | 857.1  | 864.9  | 863.2  | 861.7  | 863.2  |
| 30°   | 894.3  | 888.2  | 883.4  | 891.3  | 899.1  | 900.6  | 905.2  | 917.6  | 920.7  | 919.1  | 922.4  |
| 32.5° | 939.4  | 930.0  | 933.2  | 937.8  | 954.8  | 961.1  | 959.6  | 968.9  | 967.2  | 962.6  | 968.9  |
| 35°   | 982.9  | 993.8  | 999.9  | 1009.2 | 1015.5 | 1023.2 | 1023.2 | 1040.3 | 1043.4 | 1038.8 | 1043.4 |
| 37.5° | 1066.7 | 1071.3 | 1088.4 | 1090.0 | 1097.8 | 1127.2 | 1130.4 | 1153.7 | 1166.1 | 1159.8 | 1161.4 |
| 40°   | 1181.6 | 1180.1 | 1192.5 | 1211.0 | 1226.6 | 1263.9 | 1274.7 | 1290.2 | 1301.1 | 1296.5 | 1302.6 |
| 42.5° | 1274.7 | 1262.3 | 1271.7 | 1312.0 | 1329.1 | 1357.0 | 1371.0 | 1378.8 | 1399.0 | 1392.7 | 1400.5 |
| 45°   | 1341.6 | 1346.1 | 1358.6 | 1399.0 | 1409.9 | 1433.2 | 1465.6 | 1479.8 | 1506.1 | 1498.3 | 1503.0 |
| 47.5° | 1406.7 | 1428.4 | 1439.3 | 1458.0 | 1492.2 | 1523.1 | 1563.6 | 1577.5 | 1614.7 | 1611.7 | 1607.1 |
| 50°   | 1492.2 | 1509.2 | 1521.6 | 1535.5 | 1582.3 | 1633.4 | 1667.6 | 1673.7 | 1686.1 | 1676.9 | 1692.4 |
| 52.5° | 1583.8 | 1582.3 | 1593.0 | 1631.9 | 1697.0 | 1717.2 | 1746.8 | 1774.7 | 1801.0 | 1810.4 | 1801.0 |
| 55°   | 1704.8 | 1666.1 | 1711.1 | 1766.9 | 1794.9 | 1843.0 | 1914.4 | 1953.3 | 2004.5 | 2012.3 | 1996.7 |
| 57.5° | 1754.5 | 1754.5 | 1801.0 | 1833.7 | 1885.0 | 1970.3 | 2046.5 | 2065.0 | 2091.4 | 2077.4 | 2093.1 |
| 60°   | 1748.3 | 1807.3 | 1807.3 | 1864.8 | 1948.6 | 2024.7 | 2052.6 | 2083.7 | 2119.4 | 2117.9 | 2117.9 |
| 62.5° | 1756.2 | 1813.4 | 1798.0 | 1897.4 | 1948.6 | 2010.6 | 2072.8 | 2130.3 | 2179.9 | 2178.4 | 2176.9 |
| 63°   | 1763.8 | 1813.4 | 1804.3 | 1905.1 | 1947.1 | 2013.9 | 2088.3 | 2145.8 | 2186.2 | 2183.0 | 2184.5 |
| 65°   | 1787.1 | 1773.2 | 1829.1 | 1892.7 | 1940.8 | 2040.2 | 2102.3 | 2147.3 | 2175.4 | 2173.8 | 2173.8 |
| 67.5° | 1743.6 | 1711.1 | 1790.2 | 1815.1 | 1906.8 | 1995.2 | 2043.3 | 2094.6 | 2114.7 | 2114.7 | 2111.6 |
| 70°   | 1610.1 | 1624.1 | 1678.5 | 1718.8 | 1811.9 | 1891.1 | 1931.6 | 1996.7 | 2021.5 | 2021.5 | 2020.0 |
| 72.5° | 1475.0 | 1498.3 | 1535.5 | 1593.0 | 1681.5 | 1743.6 | 1791.9 | 1850.8 | 1883.3 | 1881.8 | 1881.8 |
| 75°   | 1302.6 | 1324.4 | 1367.9 | 1422.3 | 1499.8 | 1560.5 | 1599.3 | 1655.2 | 1692.4 | 1706.4 | 1690.9 |
| 77.5° | 1108.7 | 1114.8 | 1155.2 | 1211.0 | 1279.3 | 1321.3 | 1380.3 | 1434.7 | 1465.6 | 1464.1 | 1459.5 |
| 80°   | 872.6  | 880.4  | 914.5  | 978.1  | 1015.5 | 1065.2 | 1119.5 | 1149.0 | 1175.3 | 1175.3 | 1172.2 |
| 82.5° | 602.4  | 619.4  | 653.6  | 695.6  | 734.4  | 777.9  | 807.4  | 836.9  | 858.6  | 857.1  | 852.5  |
| 85°   | 340.0  | 347.8  | 380.4  | 406.8  | 436.4  | 464.2  | 484.5  | 503.0  | 521.7  | 521.7  | 518.6  |
| 87.5° | 102.5  | 91.6   | 110.3  | 121.0  | 136.7  | 150.6  | 160.0  | 178.5  | 190.9  | 177.0  | 177.0  |
| 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):**

|       | 55°    | 60°    | 65°    | 70°    | 75°    | 80°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 546.5  | 546.5  | 546.5  | 546.5  | 546.5  | 546.5  | 546.5  | 546.5  |
| 2.5°  | 563.7  | 563.7  | 563.7  | 563.7  | 563.7  | 563.7  | 563.7  | 563.7  |
| 5°    | 571.3  | 572.9  | 572.9  | 574.6  | 574.6  | 574.6  | 574.6  | 574.6  |
| 7.5°  | 577.6  | 577.6  | 577.6  | 577.6  | 579.2  | 579.2  | 579.2  | 579.2  |
| 10°   | 596.2  | 597.9  | 596.2  | 596.2  | 593.1  | 591.6  | 591.6  | 591.6  |
| 12.5° | 622.7  | 624.2  | 624.2  | 621.1  | 617.9  | 614.9  | 613.3  | 611.8  |
| 15°   | 647.5  | 652.1  | 649.0  | 647.5  | 644.4  | 646.0  | 646.0  | 647.5  |
| 17.5° | 686.2  | 687.8  | 683.2  | 680.1  | 678.6  | 681.7  | 684.7  | 686.2  |
| 20°   | 753.1  | 750.0  | 740.6  | 737.6  | 734.4  | 734.4  | 737.6  | 737.6  |
| 22.5° | 795.0  | 787.2  | 780.9  | 777.9  | 777.9  | 777.9  | 773.3  | 767.0  |
| 25°   | 824.4  | 819.9  | 815.1  | 818.3  | 821.4  | 816.6  | 805.9  | 804.2  |
| 27.5° | 864.9  | 855.6  | 854.0  | 852.5  | 854.0  | 850.8  | 849.3  | 843.1  |
| 30°   | 917.6  | 905.2  | 902.1  | 899.1  | 889.7  | 886.5  | 889.7  | 894.3  |
| 32.5° | 967.2  | 959.6  | 962.6  | 956.5  | 939.4  | 933.2  | 936.3  | 934.8  |
| 35°   | 1038.8 | 1024.7 | 1024.7 | 1012.3 | 1007.7 | 1006.2 | 993.8  | 982.9  |
| 37.5° | 1152.0 | 1133.5 | 1128.7 | 1100.8 | 1088.4 | 1091.5 | 1074.5 | 1062.1 |
| 40°   | 1290.2 | 1276.3 | 1263.9 | 1232.8 | 1215.8 | 1194.0 | 1183.1 | 1183.1 |
| 42.5° | 1381.8 | 1372.5 | 1355.5 | 1333.7 | 1315.0 | 1277.8 | 1263.9 | 1271.7 |
| 45°   | 1482.8 | 1470.4 | 1434.7 | 1412.9 | 1395.8 | 1369.4 | 1354.0 | 1338.3 |
| 47.5° | 1585.3 | 1568.2 | 1526.3 | 1498.3 | 1458.0 | 1450.2 | 1433.2 | 1411.4 |
| 50°   | 1675.4 | 1669.1 | 1639.5 | 1593.0 | 1541.8 | 1529.4 | 1513.9 | 1493.7 |
| 52.5° | 1785.6 | 1748.3 | 1723.5 | 1703.3 | 1645.8 | 1605.5 | 1583.8 | 1593.0 |
| 55°   | 1965.8 | 1919.2 | 1855.4 | 1791.9 | 1779.4 | 1731.2 | 1676.9 | 1706.4 |
| 57.5° | 2069.8 | 2043.3 | 1995.2 | 1894.2 | 1844.6 | 1811.9 | 1776.2 | 1749.9 |
| 60°   | 2094.6 | 2046.5 | 2035.6 | 1959.5 | 1880.3 | 1811.9 | 1826.0 | 1763.8 |
| 62.5° | 2142.7 | 2077.4 | 2016.9 | 1956.4 | 1908.3 | 1815.1 | 1811.9 | 1779.4 |
| 63°   | 2158.2 | 2093.1 | 2029.3 | 1956.4 | 1912.9 | 1826.0 | 1808.9 | 1791.9 |
| 65°   | 2155.1 | 2099.2 | 2051.1 | 1956.4 | 1891.1 | 1857.0 | 1773.2 | 1811.9 |
| 67.5° | 2096.1 | 2049.6 | 1993.6 | 1928.4 | 1819.7 | 1793.4 | 1734.4 | 1742.0 |
| 70°   | 2001.5 | 1940.8 | 1888.1 | 1827.6 | 1740.5 | 1680.0 | 1644.3 | 1614.7 |
| 72.5° | 1853.9 | 1799.5 | 1743.6 | 1687.8 | 1610.1 | 1537.2 | 1512.2 | 1479.8 |
| 75°   | 1658.2 | 1605.5 | 1554.2 | 1501.5 | 1428.4 | 1363.3 | 1336.8 | 1313.5 |
| 77.5° | 1434.7 | 1389.7 | 1316.7 | 1266.9 | 1225.1 | 1155.2 | 1130.4 | 1105.4 |
| 80°   | 1144.4 | 1122.6 | 1069.7 | 1004.6 | 982.9  | 914.5  | 895.8  | 863.2  |
| 82.5° | 832.3  | 810.5  | 768.5  | 723.5  | 697.1  | 661.4  | 630.3  | 608.7  |
| 85°   | 507.8  | 484.5  | 462.7  | 422.3  | 406.8  | 380.4  | 355.6  | 343.2  |
| 87.5° | 183.2  | 164.5  | 147.6  | 128.9  | 119.5  | 101.0  | 97.7   | 88.6   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)