

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P631402

Luminaire Tested: GWS-SA1F-750-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-750-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7355.5 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

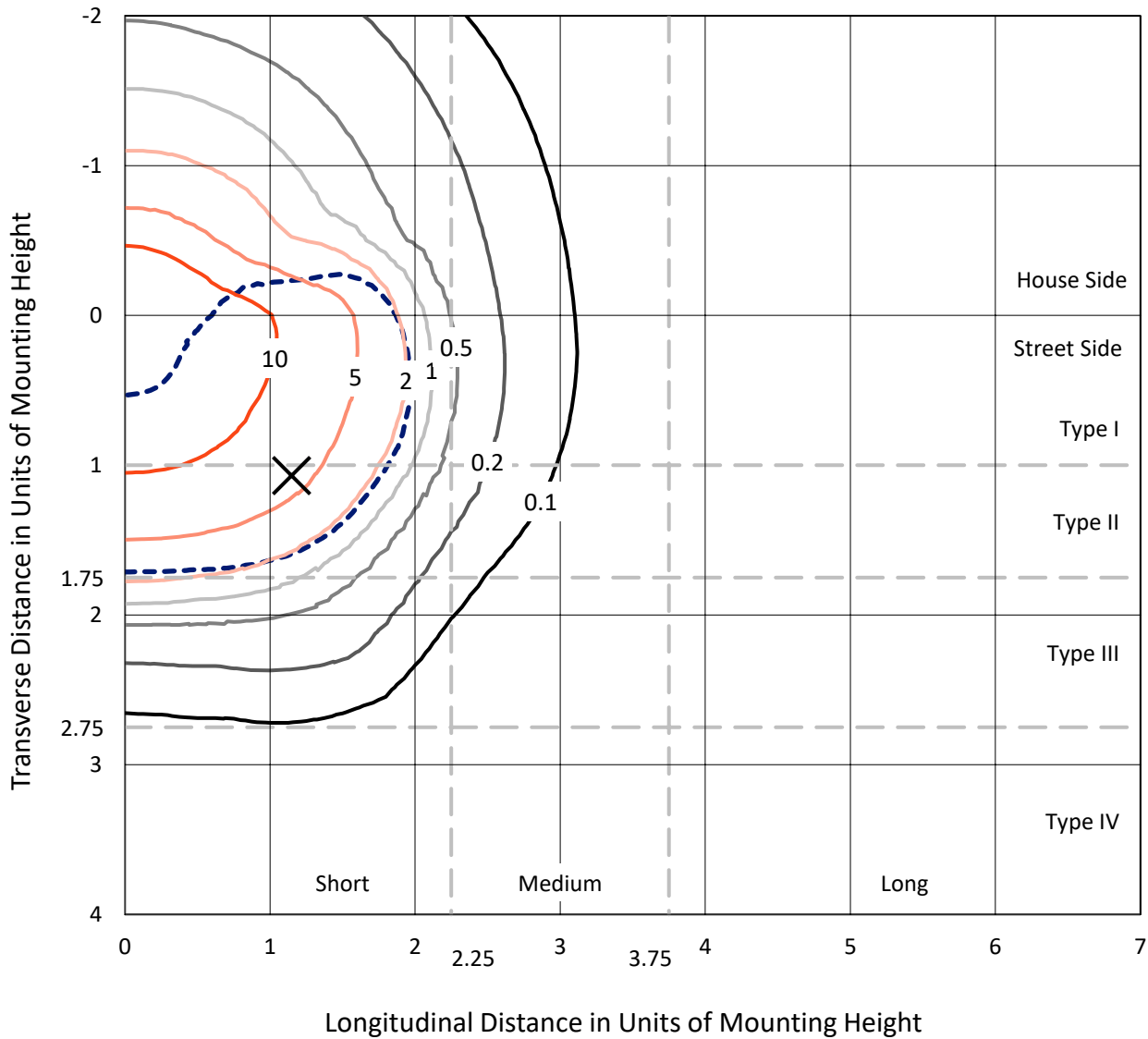
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

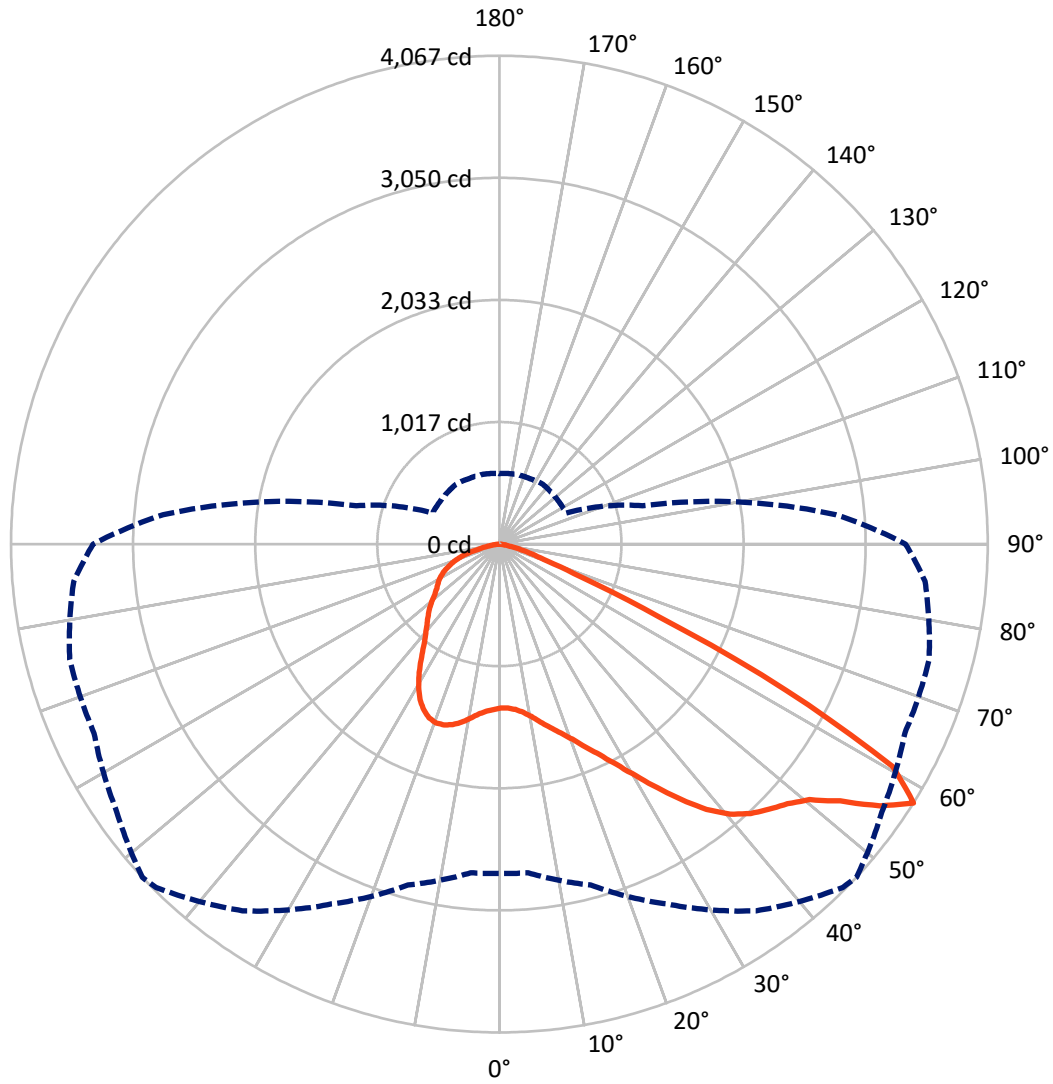
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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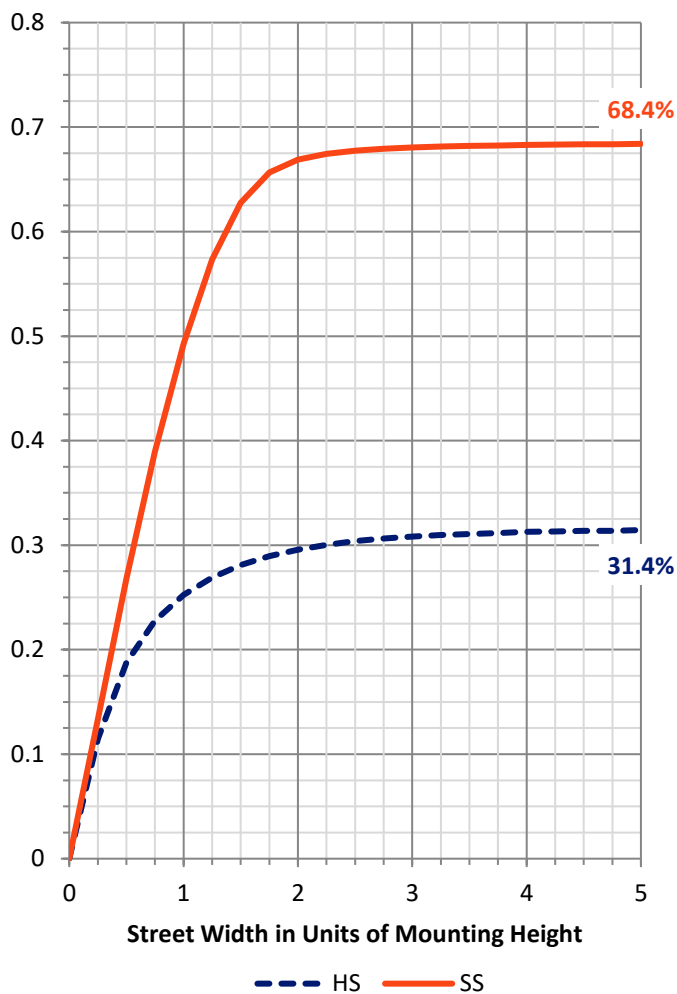
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2328.0 | 0.0 | 2328.0 |
| | % Fixture | 31.6 | 0.0 | 31.6 |
| Street Side | Lumens | 5027.5 | 0.0 | 5027.5 |
| | % Fixture | 68.4 | 0.0 | 68.4 |
| Total | Lumens | 7355.5 | 0.0 | 7355.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 134.5 | 1.8 |
| 10°-20° | 442.5 | 6.0 |
| 20°-30° | 796.8 | 10.8 |
| 30°-40° | 1203.5 | 16.4 |
| 40°-50° | 1620.6 | 22.0 |
| 50°-60° | 1947.4 | 26.5 |
| 60°-70° | 948.4 | 12.9 |
| 70°-80° | 233.7 | 3.2 |
| 80°-90° | 28.1 | 0.4 |
| 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° | 7355.5 | 100.0 |
| 0°-180° | 7355.5 | 100.0 |

Coefficient of Utilization



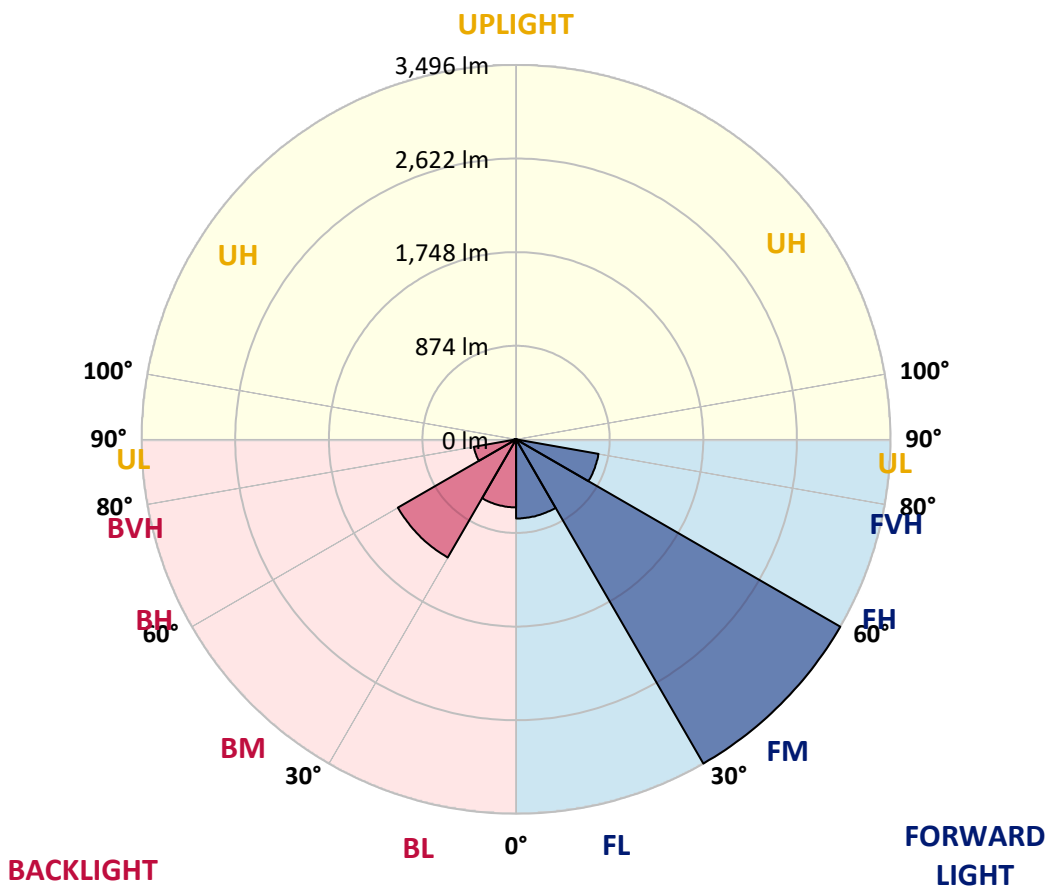
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 738.8 | 10.0 | | | |
| FM (30°-60°) | 3496.5 | 47.5 | | | |
| FH (60°-80°) | 781.7 | 10.6 | | | G1/1800 |
| FVH (80°-90°) | 10.6 | 0.1 | | | G1/100 |
| BL (0°-30°) | 635.0 | 8.6 | B2/1000 | | |
| BM (30°-60°) | 1275.0 | 17.3 | B2/2500 | | |
| BH (60°-80°) | 400.4 | 5.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 17.5 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 47° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1364.1 | 1364.1 | 1364.1 | 1364.1 | 1364.1 | 1364.1 | 1364.1 | 1364.1 | 1364.1 | 1364.1 | 1364.1 |
| 2.5° | 1361.6 | 1361.0 | 1361.0 | 1364.7 | 1364.7 | 1365.9 | 1367.8 | 1369.6 | 1370.3 | 1367.2 | 1360.4 |
| 5° | 1376.4 | 1376.4 | 1376.4 | 1379.5 | 1379.5 | 1380.8 | 1383.2 | 1383.9 | 1383.2 | 1378.3 | 1371.5 |
| 7.5° | 1399.9 | 1399.9 | 1400.5 | 1404.2 | 1407.3 | 1409.2 | 1413.5 | 1412.9 | 1411.0 | 1403.0 | 1394.4 |
| 10° | 1438.2 | 1440.1 | 1441.9 | 1446.3 | 1452.4 | 1456.8 | 1459.8 | 1459.8 | 1457.4 | 1445.0 | 1433.9 |
| 12.5° | 1492.6 | 1495.1 | 1496.9 | 1500.6 | 1505.6 | 1513.0 | 1519.8 | 1519.8 | 1516.7 | 1501.2 | 1484.6 |
| 15° | 1556.2 | 1558.7 | 1558.1 | 1559.3 | 1568.6 | 1579.1 | 1584.6 | 1588.3 | 1589.6 | 1568.0 | 1542.0 |
| 17.5° | 1629.1 | 1631.6 | 1629.1 | 1625.4 | 1626.7 | 1643.3 | 1653.2 | 1666.8 | 1674.8 | 1645.8 | 1604.4 |
| 20° | 1695.2 | 1692.8 | 1692.8 | 1695.2 | 1698.9 | 1719.3 | 1734.1 | 1756.4 | 1766.3 | 1731.1 | 1666.8 |
| 22.5° | 1765.0 | 1770.6 | 1768.1 | 1768.1 | 1783.0 | 1816.9 | 1834.8 | 1863.9 | 1874.4 | 1828.7 | 1742.2 |
| 25° | 1855.2 | 1860.2 | 1858.9 | 1860.2 | 1877.5 | 1925.7 | 1943.6 | 1997.3 | 2007.8 | 1942.3 | 1825.6 |
| 27.5° | 1954.1 | 1962.1 | 1965.8 | 1964.6 | 1992.4 | 2055.4 | 2077.6 | 2152.4 | 2171.5 | 2069.6 | 1914.5 |
| 30° | 2082.6 | 2091.2 | 2094.3 | 2093.1 | 2125.8 | 2211.7 | 2237.0 | 2322.3 | 2349.5 | 2220.3 | 2027.6 |
| 32.5° | 2231.5 | 2240.1 | 2249.4 | 2253.1 | 2295.1 | 2382.8 | 2419.3 | 2507.6 | 2546.5 | 2394.6 | 2164.1 |
| 35° | 2379.1 | 2386.5 | 2404.5 | 2433.5 | 2490.9 | 2580.5 | 2612.6 | 2699.8 | 2737.4 | 2575.6 | 2329.1 |
| 37.5° | 2542.2 | 2547.2 | 2562.6 | 2602.8 | 2685.5 | 2770.8 | 2802.9 | 2886.3 | 2890.7 | 2750.4 | 2515.7 |
| 40° | 2720.8 | 2720.8 | 2717.7 | 2757.2 | 2843.7 | 2929.6 | 2957.4 | 3005.6 | 2980.2 | 2885.1 | 2697.3 |
| 42.5° | 2872.1 | 2869.7 | 2872.1 | 2909.2 | 2973.4 | 3043.3 | 3067.3 | 3058.1 | 3026.0 | 2988.3 | 2861.6 |
| 45° | 3008.7 | 3010.5 | 3032.7 | 3061.2 | 3094.5 | 3135.9 | 3150.1 | 3097.6 | 3068.6 | 3071.1 | 2993.2 |
| 47.5° | 3101.3 | 3103.2 | 3155.1 | 3202.6 | 3223.0 | 3236.0 | 3229.8 | 3156.9 | 3142.1 | 3169.9 | 3094.5 |
| 50° | 3113.7 | 3123.6 | 3213.1 | 3310.8 | 3361.4 | 3363.3 | 3346.0 | 3257.0 | 3252.7 | 3284.2 | 3148.9 |
| 52.5° | 3116.2 | 3126.0 | 3237.9 | 3413.9 | 3545.5 | 3573.3 | 3553.5 | 3460.9 | 3415.8 | 3384.3 | 3215.6 |
| 55° | 3106.9 | 3118.0 | 3241.6 | 3483.1 | 3735.2 | 3846.4 | 3848.2 | 3717.3 | 3573.3 | 3552.3 | 3405.9 |
| 57.5° | 2743.0 | 2747.3 | 2938.8 | 3307.0 | 3727.8 | 4042.8 | 4066.9 | 3889.0 | 3724.7 | 3704.9 | 3558.5 |
| 60° | 1910.8 | 1928.1 | 2136.3 | 2622.5 | 3131.6 | 3687.0 | 3764.8 | 3712.9 | 3603.0 | 3459.0 | 3053.1 |
| 62.5° | 957.0 | 971.8 | 1180.6 | 1640.2 | 2159.8 | 2598.4 | 2681.8 | 2736.8 | 2762.8 | 2608.3 | 2078.9 |
| 65° | 412.1 | 423.2 | 552.9 | 856.9 | 1222.6 | 1434.5 | 1463.6 | 1529.7 | 1691.5 | 1509.3 | 1120.1 |
| 67.5° | 275.5 | 282.9 | 349.1 | 522.7 | 720.3 | 733.9 | 729.6 | 743.8 | 779.0 | 643.1 | 506.0 |
| 70° | 211.3 | 217.5 | 261.9 | 383.0 | 517.7 | 443.0 | 419.5 | 380.6 | 413.3 | 421.3 | 410.2 |
| 72.5° | 153.2 | 158.2 | 191.5 | 261.3 | 324.3 | 282.9 | 279.2 | 299.0 | 343.5 | 355.8 | 349.1 |
| 75° | 98.8 | 101.3 | 121.7 | 143.3 | 167.4 | 181.6 | 189.0 | 224.9 | 270.0 | 279.2 | 271.2 |
| 77.5° | 66.1 | 68.0 | 79.7 | 92.1 | 95.1 | 95.8 | 98.2 | 114.3 | 145.2 | 162.5 | 160.6 |
| 80° | 34.6 | 34.6 | 38.9 | 38.9 | 44.5 | 53.1 | 55.6 | 66.1 | 80.3 | 89.0 | 89.6 |
| 82.5° | 13.6 | 14.2 | 16.7 | 18.5 | 22.2 | 27.2 | 29.0 | 34.6 | 42.0 | 48.2 | 53.7 |
| 85° | 5.6 | 6.2 | 6.8 | 8.0 | 9.9 | 12.4 | 13.0 | 14.8 | 19.8 | 24.7 | 27.8 |
| 87.5° | 0.0 | 0.0 | 0.6 | 0.6 | 1.2 | 1.9 | 1.9 | 2.5 | 3.1 | 5.6 | 7.4 |
| 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° | 1364.1 | 1364.1 | 1364.1 | 1364.1 | 1364.1 | 1364.1 | 1364.1 | 1364.1 | 1364.1 | 1364.1 | 1364.1 |
| 2.5° | 1368.4 | 1360.4 | 1368.4 | 1370.9 | 1377.7 | 1380.2 | 1375.8 | 1375.2 | 1375.2 | 1369.0 | 1367.2 |
| 5° | 1377.7 | 1370.3 | 1378.3 | 1382.0 | 1391.9 | 1398.1 | 1399.3 | 1404.2 | 1407.3 | 1404.9 | 1404.2 |
| 7.5° | 1400.5 | 1391.3 | 1399.9 | 1405.5 | 1418.5 | 1428.3 | 1432.7 | 1443.8 | 1451.8 | 1450.6 | 1450.0 |
| 10° | 1440.7 | 1428.3 | 1438.2 | 1447.5 | 1461.7 | 1473.4 | 1474.1 | 1480.2 | 1488.3 | 1485.8 | 1484.6 |
| 12.5° | 1487.0 | 1475.3 | 1486.4 | 1495.7 | 1512.4 | 1517.3 | 1509.3 | 1506.8 | 1508.0 | 1504.9 | 1502.5 |
| 15° | 1543.9 | 1527.2 | 1537.1 | 1547.6 | 1556.8 | 1551.3 | 1534.0 | 1527.2 | 1526.6 | 1522.2 | 1519.8 |
| 17.5° | 1600.7 | 1579.7 | 1587.1 | 1592.7 | 1588.3 | 1571.0 | 1549.4 | 1537.7 | 1532.1 | 1523.5 | 1521.0 |
| 20° | 1656.9 | 1630.4 | 1629.1 | 1624.8 | 1605.0 | 1573.5 | 1544.5 | 1521.0 | 1506.8 | 1495.1 | 1490.7 |
| 22.5° | 1721.2 | 1684.1 | 1665.6 | 1645.8 | 1602.6 | 1551.3 | 1507.4 | 1474.1 | 1451.2 | 1436.4 | 1431.4 |
| 25° | 1790.4 | 1737.9 | 1699.5 | 1660.0 | 1577.8 | 1503.7 | 1442.5 | 1396.8 | 1369.6 | 1353.6 | 1348.0 |
| 27.5° | 1858.9 | 1786.7 | 1729.2 | 1661.9 | 1528.4 | 1435.1 | 1353.0 | 1291.2 | 1264.0 | 1251.0 | 1246.7 |
| 30° | 1951.6 | 1851.5 | 1764.4 | 1637.8 | 1463.6 | 1340.0 | 1237.4 | 1175.0 | 1157.1 | 1147.9 | 1144.2 |
| 32.5° | 2058.5 | 1933.7 | 1811.4 | 1587.1 | 1380.8 | 1228.8 | 1120.7 | 1077.4 | 1065.1 | 1047.2 | 1046.5 |
| 35° | 2199.3 | 2051.1 | 1855.9 | 1512.4 | 1276.4 | 1109.6 | 1031.1 | 1000.2 | 978.0 | 949.5 | 947.1 |
| 37.5° | 2363.7 | 2197.5 | 1879.9 | 1417.2 | 1154.7 | 1011.3 | 964.4 | 929.8 | 893.9 | 856.3 | 851.3 |
| 40° | 2533.6 | 2368.6 | 1881.8 | 1304.8 | 1035.4 | 946.5 | 906.9 | 861.8 | 817.3 | 775.3 | 769.8 |
| 42.5° | 2712.1 | 2528.0 | 1849.1 | 1175.0 | 937.8 | 890.2 | 850.1 | 793.2 | 743.2 | 714.8 | 711.7 |
| 45° | 2871.5 | 2656.5 | 1774.9 | 1038.5 | 865.5 | 843.3 | 792.0 | 730.8 | 704.3 | 683.9 | 679.6 |
| 47.5° | 2996.9 | 2741.8 | 1674.8 | 916.2 | 806.8 | 795.1 | 728.4 | 696.9 | 676.5 | 658.0 | 653.6 |
| 50° | 3058.7 | 2760.9 | 1544.5 | 816.7 | 752.5 | 738.3 | 692.5 | 668.5 | 654.9 | 640.0 | 636.3 |
| 52.5° | 3135.3 | 2782.5 | 1432.0 | 733.3 | 699.3 | 680.2 | 662.9 | 643.7 | 633.9 | 624.6 | 621.5 |
| 55° | 3311.4 | 2864.1 | 1372.7 | 666.6 | 648.7 | 640.0 | 637.6 | 621.5 | 618.4 | 612.2 | 606.7 |
| 57.5° | 3383.0 | 2811.6 | 1232.5 | 612.2 | 608.5 | 609.8 | 615.9 | 601.1 | 598.0 | 590.6 | 586.9 |
| 60° | 2720.8 | 2125.2 | 834.6 | 565.3 | 575.2 | 583.2 | 589.4 | 574.5 | 570.2 | 569.0 | 564.0 |
| 62.5° | 1743.4 | 1307.3 | 582.6 | 521.4 | 536.2 | 546.1 | 549.8 | 535.6 | 532.5 | 542.4 | 543.0 |
| 65° | 907.5 | 712.3 | 472.6 | 474.5 | 486.8 | 501.6 | 509.1 | 504.1 | 502.9 | 513.4 | 514.0 |
| 67.5° | 463.3 | 435.5 | 412.1 | 418.9 | 428.7 | 447.9 | 465.2 | 486.8 | 494.2 | 495.5 | 496.1 |
| 70° | 394.8 | 382.4 | 370.7 | 375.0 | 385.5 | 396.0 | 412.7 | 423.2 | 410.8 | 407.7 | 406.5 |
| 72.5° | 336.1 | 326.8 | 321.3 | 326.2 | 331.8 | 329.9 | 325.0 | 329.9 | 331.8 | 332.4 | 333.0 |
| 75° | 261.3 | 254.5 | 250.2 | 250.8 | 250.8 | 244.0 | 234.8 | 229.2 | 223.0 | 218.1 | 218.1 |
| 77.5° | 160.0 | 161.2 | 165.6 | 165.0 | 164.3 | 161.9 | 152.6 | 147.7 | 132.8 | 128.5 | 128.5 |
| 80° | 91.4 | 93.3 | 97.6 | 98.8 | 98.8 | 95.8 | 86.5 | 80.9 | 74.1 | 71.0 | 70.4 |
| 82.5° | 55.6 | 58.1 | 60.5 | 61.8 | 62.4 | 58.7 | 50.7 | 46.3 | 42.6 | 39.5 | 39.5 |
| 85° | 29.0 | 30.3 | 32.7 | 33.4 | 31.5 | 27.8 | 23.5 | 21.6 | 17.9 | 17.3 | 17.3 |
| 87.5° | 8.0 | 8.6 | 9.9 | 8.0 | 7.4 | 5.6 | 3.1 | 2.5 | 1.2 | 0.6 | 0.6 |
| 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)