

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: P631534

Luminaire Tested: GWS-SA1F-830-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-830-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5612.4 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

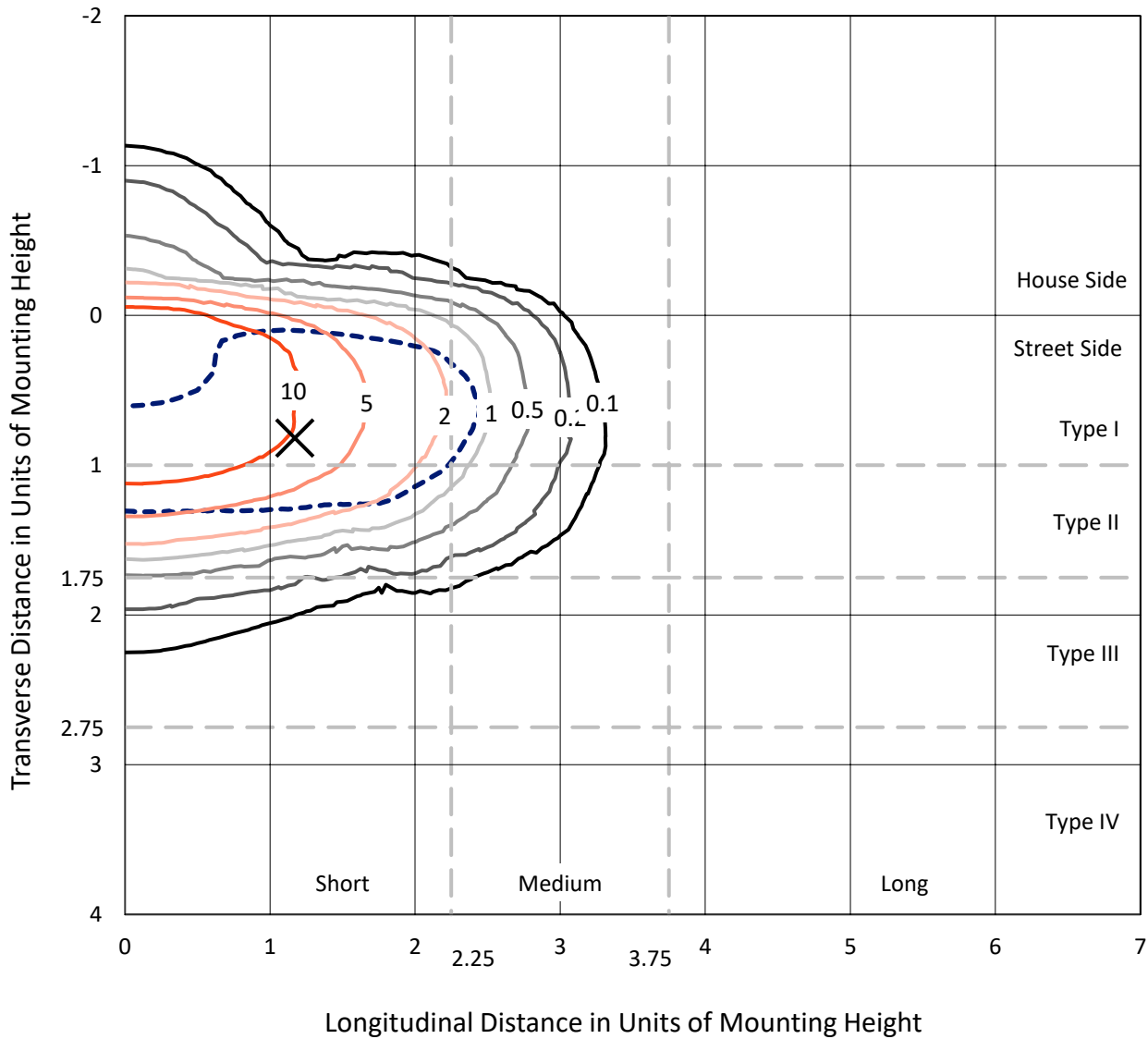
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

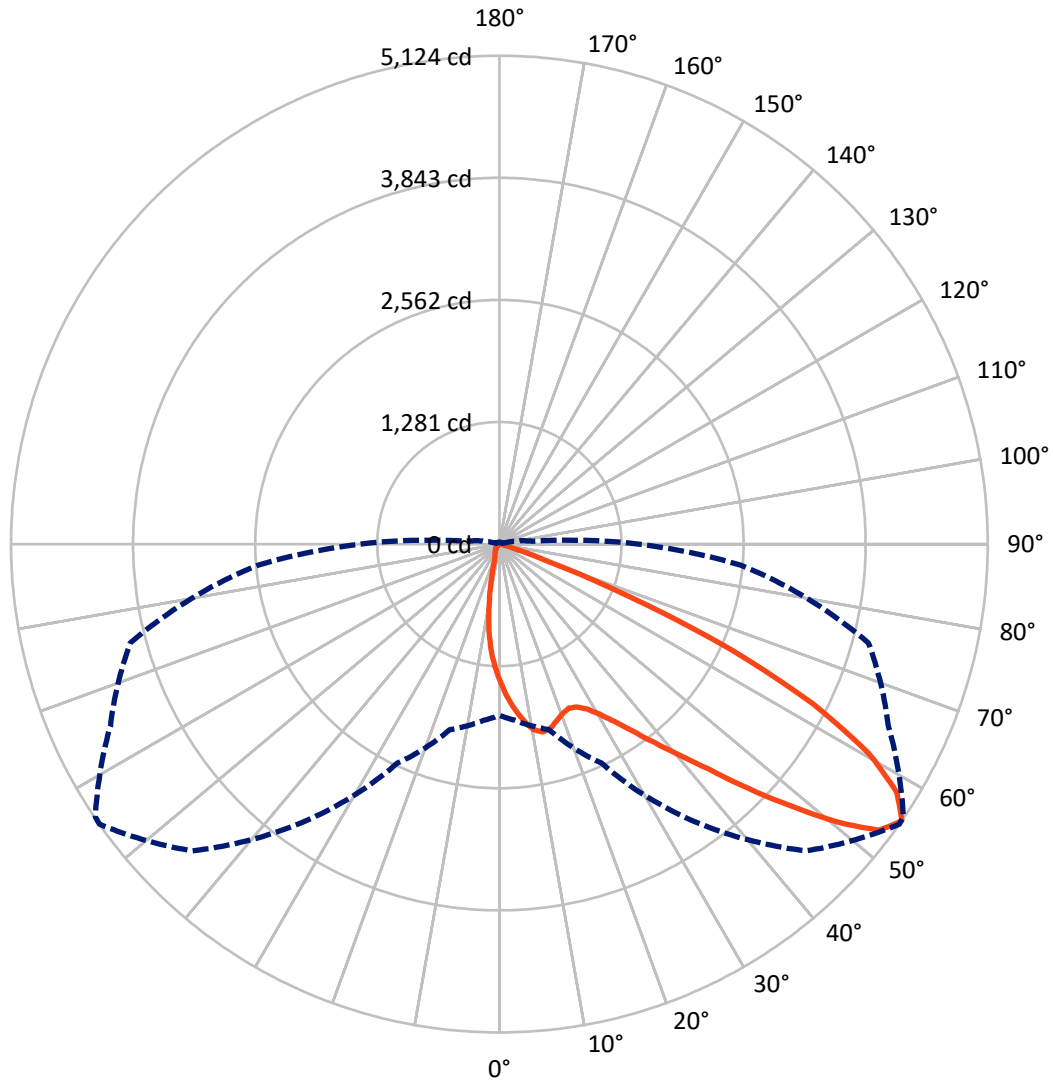
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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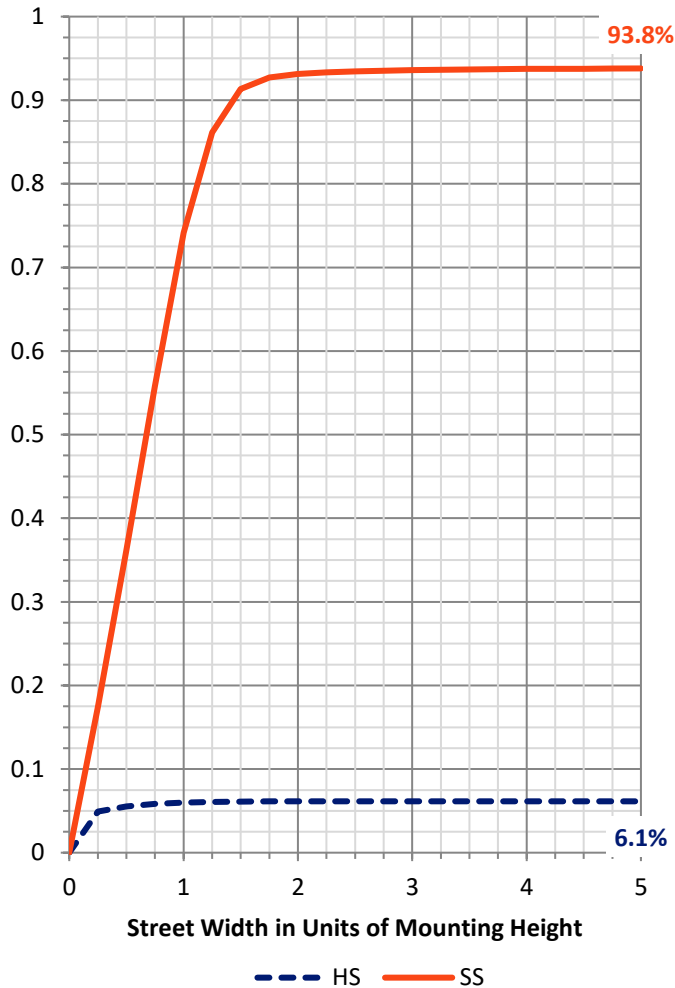
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 346.3 | 0.0 | 346.3 |
| | % Fixture | 6.2 | 0.0 | 6.2 |
| Street Side | Lumens | 5266.1 | 0.0 | 5266.1 |
| | % Fixture | 93.8 | 0.0 | 93.8 |
| Total | Lumens | 5612.4 | 0.0 | 5612.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 128.1 | 2.3 |
| 10°-20° | 308.9 | 5.5 |
| 20°-30° | 514.5 | 9.2 |
| 30°-40° | 876.7 | 15.6 |
| 40°-50° | 1431.1 | 25.5 |
| 50°-60° | 1498.3 | 26.7 |
| 60°-70° | 755.7 | 13.5 |
| 70°-80° | 95.5 | 1.7 |
| 80°-90° | 3.6 | 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° | 5612.4 | 100.0 |
| 0°-180° | 5612.4 | 100.0 |

Coefficient of Utilization

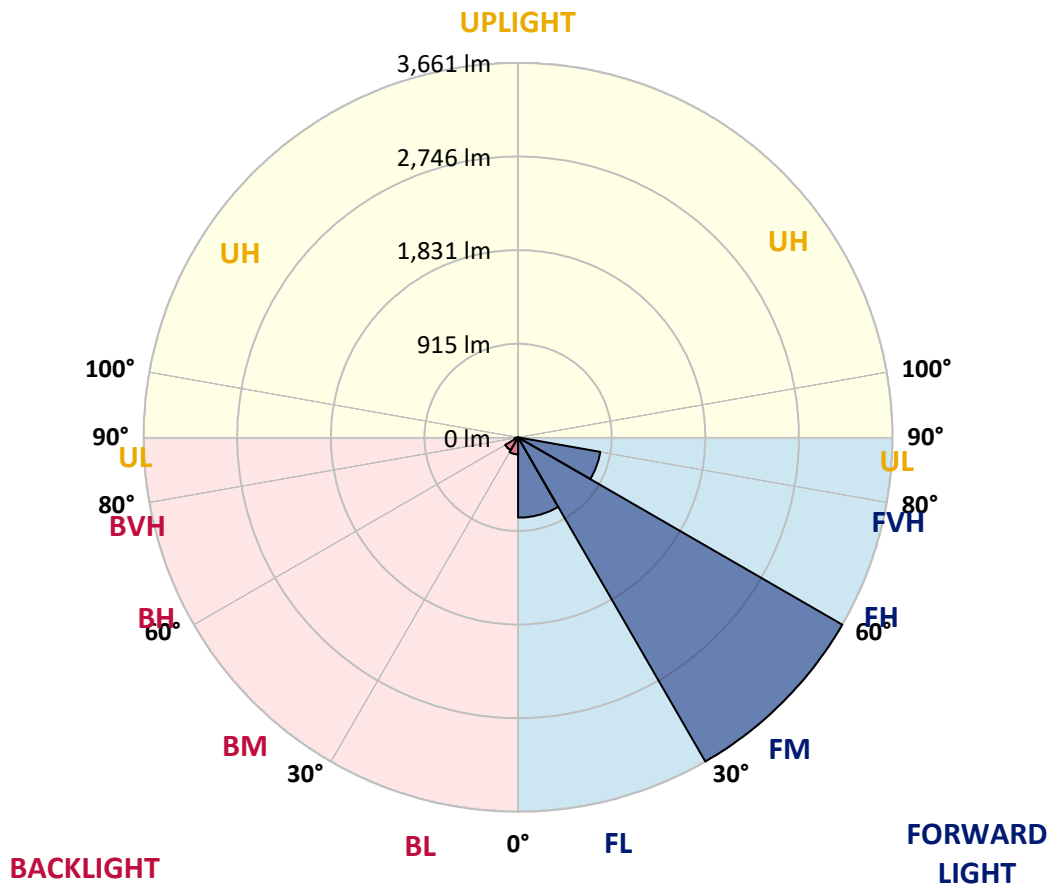


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 785.1 | 14.0 | | | |
| FM (30°-60°) | 3661.3 | 65.2 | | | |
| FH (60°-80°) | 816.4 | 14.5 | | | G1/1800 |
| FVH (80°-90°) | 3.3 | 0.1 | | | G0/10 |
| BL (0°-30°) | 166.4 | 3.0 | B1/500 | | |
| BM (30°-60°) | 144.8 | 2.6 | B0/220 | | |
| BH (60°-80°) | 34.7 | 0.6 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.3 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1449.9 | 1449.9 | 1449.9 | 1449.9 | 1449.9 | 1449.9 | 1449.9 | 1449.9 | 1449.9 | 1449.9 | 1449.9 |
| 2.5° | 1690.3 | 1682.1 | 1694.6 | 1680.2 | 1655.7 | 1635.1 | 1608.2 | 1598.6 | 1555.5 | 1514.7 | 1475.3 |
| 5° | 1895.6 | 1898.0 | 1894.2 | 1874.0 | 1839.5 | 1801.1 | 1746.9 | 1734.9 | 1659.6 | 1581.9 | 1497.9 |
| 7.5° | 1946.5 | 1945.1 | 1953.2 | 1960.9 | 1955.1 | 1935.9 | 1876.9 | 1864.9 | 1771.4 | 1654.8 | 1532.4 |
| 10° | 1789.6 | 1790.6 | 1807.4 | 1859.2 | 1923.5 | 1990.2 | 1981.0 | 1974.3 | 1882.7 | 1737.3 | 1570.8 |
| 12.5° | 1567.9 | 1576.6 | 1594.3 | 1668.2 | 1777.1 | 1928.7 | 2022.8 | 2029.5 | 1984.9 | 1828.0 | 1615.9 |
| 15° | 1472.0 | 1473.9 | 1488.3 | 1532.9 | 1614.0 | 1801.1 | 2005.0 | 2023.7 | 2070.3 | 1919.1 | 1664.9 |
| 17.5° | 1469.6 | 1472.0 | 1478.2 | 1497.9 | 1550.7 | 1700.8 | 1947.9 | 1980.6 | 2134.6 | 2017.0 | 1723.4 |
| 20° | 1559.8 | 1558.3 | 1554.0 | 1543.5 | 1566.5 | 1667.7 | 1895.2 | 1931.1 | 2169.6 | 2112.5 | 1782.4 |
| 22.5° | 1723.4 | 1721.5 | 1702.3 | 1658.6 | 1639.9 | 1698.0 | 1869.2 | 1901.9 | 2190.7 | 2197.4 | 1830.9 |
| 25° | 1912.0 | 1925.4 | 1889.4 | 1823.2 | 1777.1 | 1775.2 | 1892.3 | 1915.3 | 2208.9 | 2272.7 | 1864.0 |
| 27.5° | 2118.7 | 2123.1 | 2092.3 | 2018.0 | 1951.3 | 1899.0 | 1959.0 | 1976.2 | 2229.1 | 2339.9 | 1882.7 |
| 30° | 2345.7 | 2344.2 | 2309.2 | 2222.9 | 2141.8 | 2066.4 | 2071.2 | 2078.0 | 2276.1 | 2416.7 | 1903.3 |
| 32.5° | 2629.2 | 2635.5 | 2573.1 | 2455.5 | 2358.2 | 2254.0 | 2218.1 | 2219.0 | 2361.0 | 2515.5 | 1934.5 |
| 35° | 3014.5 | 2999.1 | 2916.6 | 2749.2 | 2583.2 | 2470.9 | 2409.5 | 2404.2 | 2492.0 | 2648.4 | 1988.7 |
| 37.5° | 3381.5 | 3383.0 | 3296.6 | 3112.4 | 2902.7 | 2725.7 | 2638.8 | 2624.4 | 2676.3 | 2832.7 | 2078.9 |
| 40° | 3636.3 | 3641.1 | 3605.1 | 3508.7 | 3286.5 | 3036.1 | 2908.5 | 2893.6 | 2915.2 | 3065.8 | 2196.9 |
| 42.5° | 3771.1 | 3784.6 | 3794.6 | 3817.2 | 3648.8 | 3423.8 | 3227.5 | 3226.1 | 3203.5 | 3331.6 | 2333.7 |
| 45° | 3776.4 | 3796.6 | 3858.0 | 4012.0 | 4031.2 | 3866.1 | 3652.6 | 3620.5 | 3533.6 | 3616.2 | 2456.0 |
| 47.5° | 3567.7 | 3614.2 | 3744.7 | 4049.9 | 4251.4 | 4306.1 | 4094.5 | 4074.8 | 3831.1 | 3841.2 | 2547.7 |
| 50° | 3081.2 | 3129.6 | 3370.0 | 3855.6 | 4307.0 | 4655.4 | 4579.6 | 4538.8 | 4079.6 | 3989.9 | 2591.8 |
| 52.5° | 2582.2 | 2626.4 | 2789.5 | 3393.1 | 4076.3 | 4765.2 | 4988.3 | 4939.9 | 4302.7 | 4041.7 | 2573.6 |
| 55° | 1796.8 | 1855.8 | 2015.1 | 2536.2 | 3544.7 | 4551.3 | 5123.6 | 5113.6 | 4501.8 | 4009.1 | 2545.3 |
| 57.5° | 880.9 | 939.4 | 1098.2 | 1563.6 | 2625.9 | 3973.6 | 4916.9 | 4970.1 | 4620.8 | 3974.1 | 2522.2 |
| 60° | 368.0 | 392.0 | 446.7 | 686.1 | 1469.1 | 3003.0 | 4450.0 | 4523.9 | 4547.9 | 3926.6 | 2519.8 |
| 62.5° | 213.5 | 217.3 | 223.1 | 284.5 | 571.4 | 1721.5 | 3691.5 | 3796.6 | 4164.5 | 3863.7 | 2481.9 |
| 65° | 161.2 | 162.6 | 160.2 | 174.6 | 236.1 | 653.0 | 2667.1 | 2810.1 | 3476.1 | 3618.1 | 2332.2 |
| 67.5° | 132.4 | 132.4 | 126.2 | 129.1 | 148.3 | 244.7 | 1472.5 | 1672.1 | 2572.1 | 2973.7 | 1925.9 |
| 70° | 105.6 | 108.0 | 105.1 | 101.2 | 106.0 | 135.3 | 523.9 | 649.6 | 1497.9 | 1756.0 | 1123.2 |
| 72.5° | 80.1 | 80.1 | 84.9 | 82.0 | 78.7 | 84.9 | 182.8 | 205.3 | 601.2 | 732.2 | 405.4 |
| 75° | 61.9 | 63.8 | 67.2 | 64.3 | 59.5 | 50.4 | 87.8 | 93.1 | 181.4 | 170.3 | 90.7 |
| 77.5° | 31.7 | 32.1 | 42.7 | 47.0 | 44.1 | 30.7 | 38.4 | 42.2 | 59.0 | 52.8 | 33.6 |
| 80° | 19.2 | 20.2 | 24.0 | 36.9 | 29.3 | 16.3 | 15.8 | 16.8 | 27.8 | 24.0 | 13.9 |
| 82.5° | 8.2 | 8.6 | 13.4 | 13.4 | 12.0 | 6.2 | 6.2 | 6.2 | 13.4 | 12.5 | 5.8 |
| 85° | 0.0 | 0.0 | 2.4 | 1.9 | 1.9 | 2.4 | 2.4 | 2.4 | 3.4 | 4.8 | 2.9 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 1.4 | 1.4 |
| 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° | 1449.9 | 1449.9 | 1449.9 | 1449.9 | 1449.9 | 1449.9 | 1449.9 | 1449.9 | 1449.9 | 1449.9 | 1449.9 |
| 2.5° | 1449.9 | 1419.2 | 1377.9 | 1340.5 | 1290.1 | 1261.8 | 1222.5 | 1190.4 | 1163.0 | 1154.4 | 1150.5 |
| 5° | 1450.4 | 1397.6 | 1309.3 | 1221.1 | 1112.6 | 1027.2 | 939.4 | 869.9 | 812.8 | 794.5 | 789.7 |
| 7.5° | 1460.0 | 1382.3 | 1239.3 | 1079.0 | 897.7 | 748.0 | 614.1 | 494.2 | 438.5 | 419.8 | 416.0 |
| 10° | 1472.9 | 1369.3 | 1158.2 | 908.7 | 648.2 | 455.8 | 322.9 | 246.1 | 209.7 | 189.5 | 192.4 |
| 12.5° | 1489.7 | 1358.8 | 1068.5 | 724.5 | 428.9 | 250.4 | 177.5 | 148.7 | 141.1 | 137.2 | 135.3 |
| 15° | 1512.3 | 1346.3 | 957.2 | 541.7 | 262.9 | 161.2 | 136.7 | 129.1 | 126.2 | 124.3 | 123.8 |
| 17.5° | 1535.3 | 1331.9 | 843.9 | 381.0 | 174.6 | 133.9 | 122.8 | 119.0 | 117.1 | 115.6 | 115.1 |
| 20° | 1559.8 | 1307.4 | 711.0 | 262.4 | 137.7 | 120.4 | 113.2 | 108.9 | 106.5 | 104.1 | 103.6 |
| 22.5° | 1570.3 | 1268.1 | 583.9 | 183.8 | 122.3 | 110.8 | 101.7 | 96.4 | 93.6 | 91.6 | 91.6 |
| 25° | 1560.3 | 1204.3 | 452.4 | 139.6 | 111.3 | 100.3 | 91.2 | 85.4 | 83.0 | 81.1 | 81.1 |
| 27.5° | 1533.4 | 1122.2 | 330.1 | 115.6 | 99.3 | 89.2 | 80.6 | 75.3 | 73.4 | 72.4 | 72.4 |
| 30° | 1503.7 | 1018.6 | 232.7 | 99.3 | 85.9 | 77.7 | 70.5 | 67.2 | 66.7 | 65.7 | 65.7 |
| 32.5° | 1478.2 | 921.7 | 160.2 | 87.3 | 75.8 | 67.6 | 62.9 | 61.4 | 61.9 | 60.9 | 61.4 |
| 35° | 1464.3 | 826.7 | 119.0 | 77.7 | 67.6 | 60.0 | 57.6 | 57.6 | 57.6 | 57.1 | 57.1 |
| 37.5° | 1470.1 | 733.1 | 96.9 | 71.0 | 60.5 | 54.7 | 52.3 | 53.3 | 54.2 | 54.2 | 54.2 |
| 40° | 1498.9 | 650.1 | 85.9 | 64.8 | 54.2 | 49.9 | 48.0 | 49.4 | 50.9 | 51.8 | 51.8 |
| 42.5° | 1535.3 | 582.9 | 77.7 | 59.5 | 49.9 | 45.1 | 44.1 | 45.6 | 47.0 | 48.0 | 48.0 |
| 45° | 1558.3 | 515.3 | 69.6 | 52.8 | 45.6 | 39.8 | 39.8 | 41.7 | 41.3 | 41.7 | 41.7 |
| 47.5° | 1568.9 | 461.6 | 61.4 | 45.6 | 38.9 | 34.5 | 35.0 | 36.0 | 35.0 | 36.0 | 36.0 |
| 50° | 1543.0 | 407.3 | 54.2 | 37.9 | 32.1 | 30.2 | 31.2 | 30.7 | 30.7 | 32.6 | 32.6 |
| 52.5° | 1495.5 | 367.0 | 48.0 | 32.1 | 27.3 | 26.9 | 27.8 | 25.9 | 26.4 | 26.4 | 25.9 |
| 55° | 1460.5 | 344.0 | 42.7 | 27.8 | 23.5 | 24.0 | 23.5 | 20.2 | 18.2 | 16.3 | 15.8 |
| 57.5° | 1443.2 | 334.9 | 38.9 | 24.9 | 21.1 | 21.1 | 19.2 | 13.9 | 10.6 | 8.2 | 7.2 |
| 60° | 1439.4 | 323.9 | 35.0 | 21.6 | 18.7 | 17.8 | 13.9 | 8.2 | 5.3 | 3.8 | 3.4 |
| 62.5° | 1402.9 | 297.0 | 31.7 | 17.3 | 16.3 | 14.4 | 8.6 | 4.8 | 2.9 | 1.9 | 1.4 |
| 65° | 1283.4 | 244.2 | 28.3 | 13.4 | 12.5 | 10.6 | 5.3 | 2.9 | 1.4 | 0.5 | 0.0 |
| 67.5° | 1021.0 | 173.2 | 24.9 | 10.1 | 8.6 | 6.7 | 3.4 | 1.9 | 0.5 | 0.0 | 0.0 |
| 70° | 588.7 | 93.6 | 20.6 | 7.2 | 5.8 | 4.3 | 2.4 | 1.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 196.7 | 43.7 | 15.8 | 4.8 | 4.3 | 3.4 | 1.4 | 0.5 | 0.0 | 0.0 | 0.0 |
| 75° | 43.2 | 25.9 | 10.6 | 3.4 | 2.9 | 2.4 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 16.3 | 18.2 | 5.3 | 2.4 | 1.9 | 1.4 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 6.2 | 12.0 | 2.4 | 1.4 | 1.4 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 3.4 | 4.8 | 1.4 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 1.9 | 2.4 | 1.0 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 1.0 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)