

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: P270204

Luminaire Tested: **GWC-AF-02-LED-E1-RW-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-RW-7027-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12102.6 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 129
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

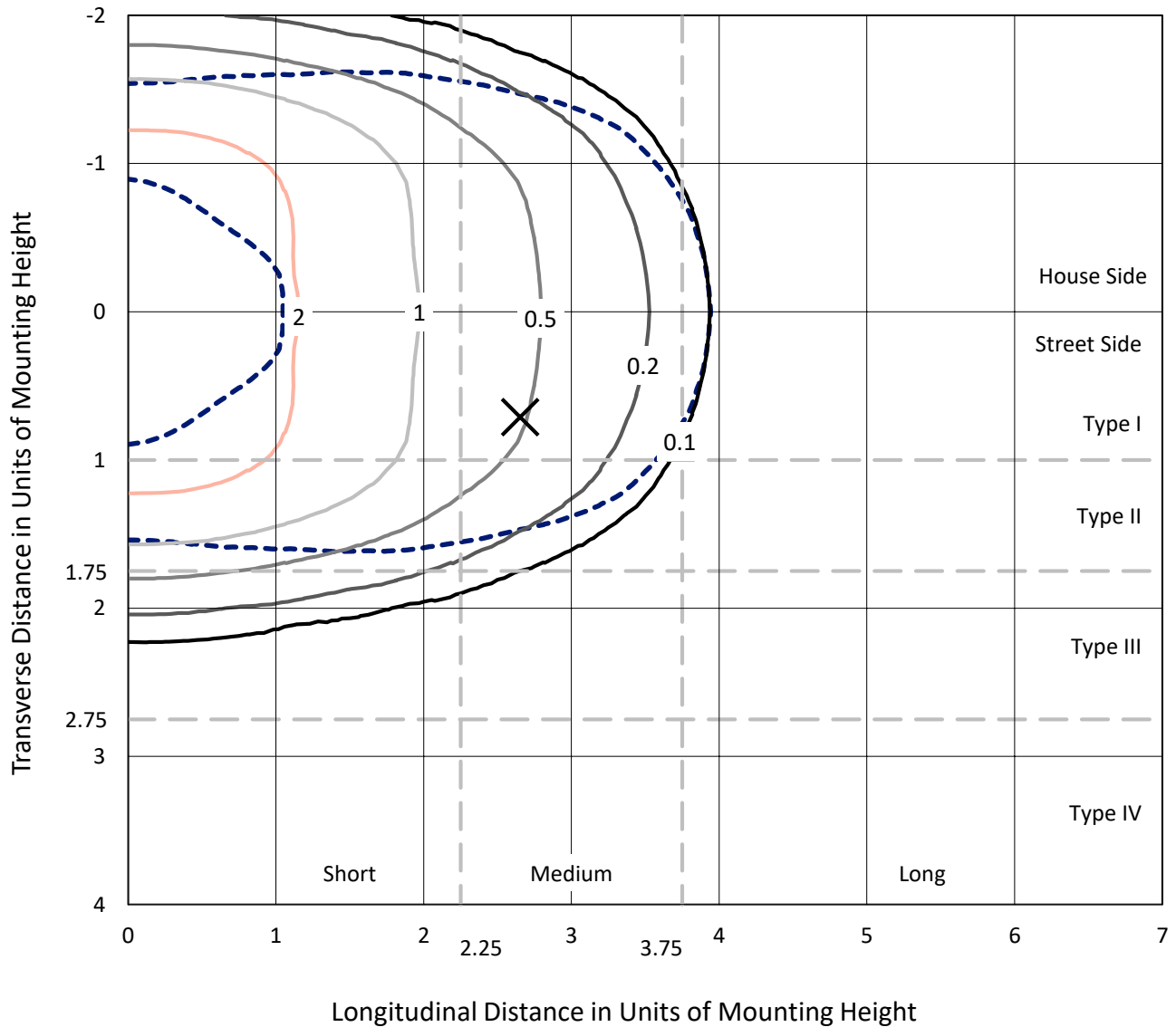


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

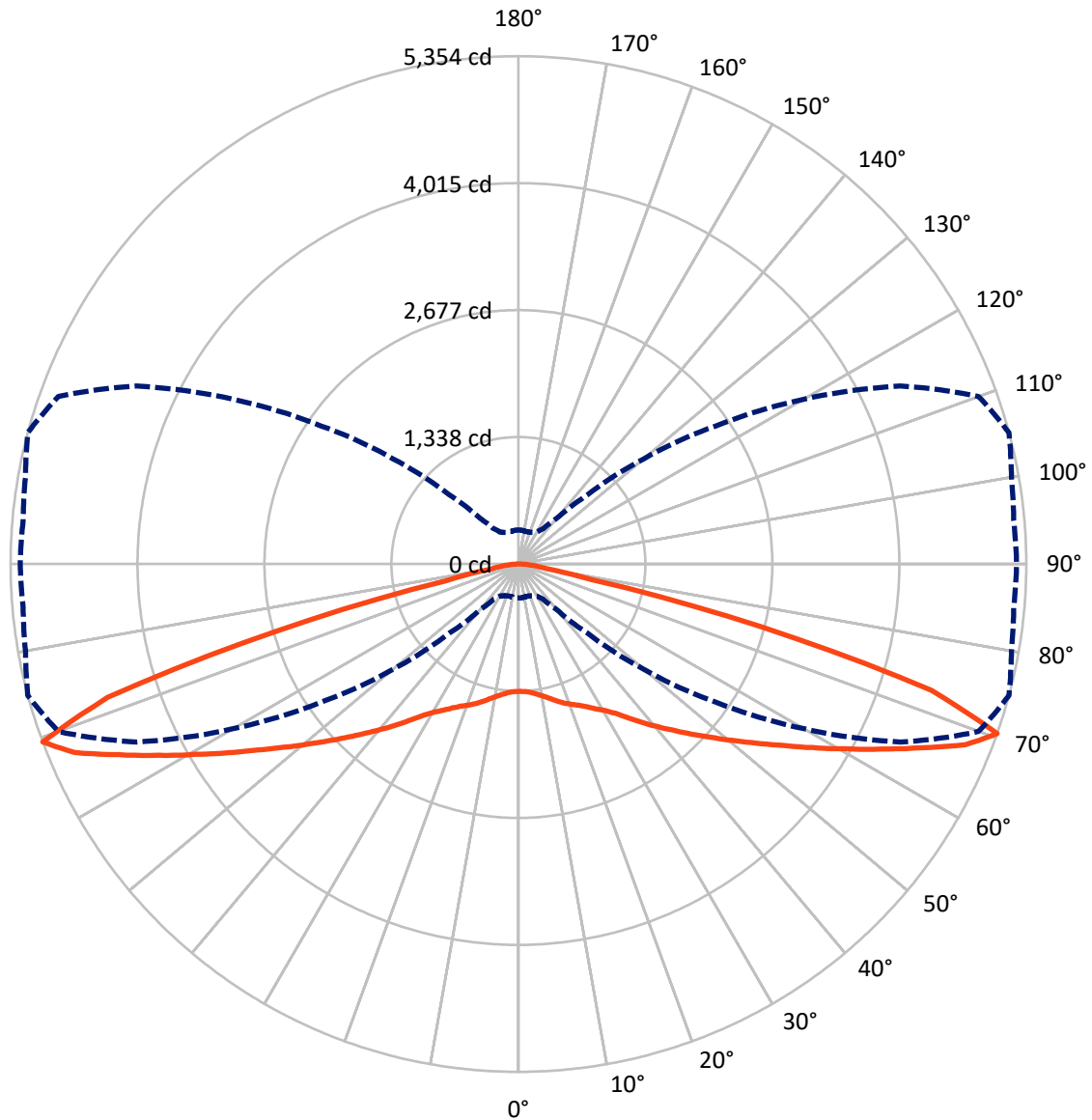


Based on 20 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6051.3 | 0.0 | 6051.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6051.3 | 0.0 | 6051.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 12102.6 | 0.0 | 12102.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 128.8 | 1.1 |
| 10°-20° | 400.1 | 3.3 |
| 20°-30° | 753.0 | 6.2 |
| 30°-40° | 1333.4 | 11.0 |
| 40°-50° | 2229.8 | 18.4 |
| 50°-60° | 3107.2 | 25.7 |
| 60°-70° | 2881.5 | 23.8 |
| 70°-80° | 1148.4 | 9.5 |
| 80°-90° | 120.7 | 1.0 |
| 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° | 12102.6 | 100.0 |
| 0°-180° | 12102.6 | 100.0 |



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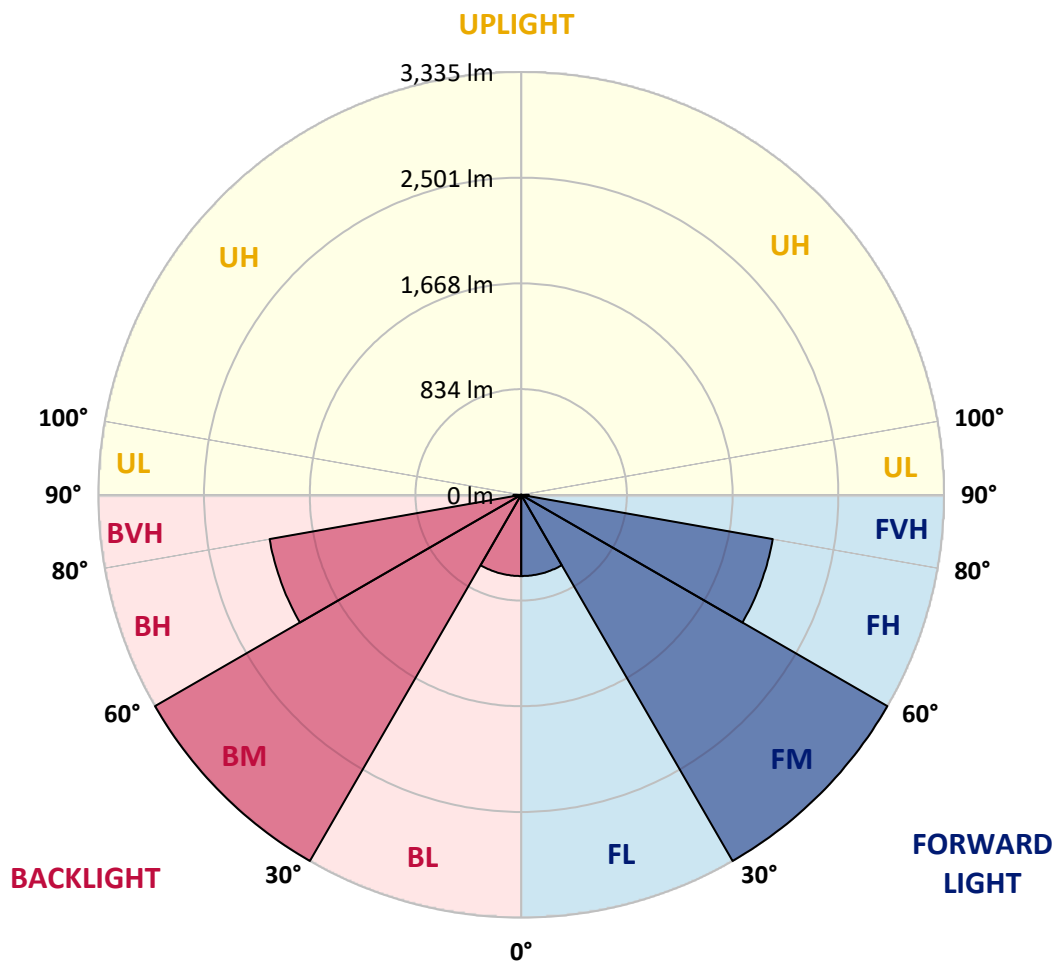
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 640.9 | 5.3 | | | |
| FM | (30°-60°) | 3335.2 | 27.6 | | | |
| FH | (60°-80°) | 2014.9 | 16.6 | | | G2/5000 |
| FVH | (80°-90°) | 60.4 | 0.5 | | | G1/100 |
| BL | (0°-30°) | 640.9 | 5.3 | B2/1000 | | |
| BM | (30°-60°) | 3335.2 | 27.6 | B3/5000 | | |
| BH | (60°-80°) | 2014.9 | 16.6 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 60.4 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1342.4 | 1342.4 | 1342.4 | 1342.4 | 1342.4 | 1342.4 | 1342.4 | 1342.4 | 1342.4 | 1342.4 | 1342.4 |
| 2.5° | 1340.2 | 1339.1 | 1340.2 | 1339.6 | 1340.7 | 1340.7 | 1341.9 | 1344.1 | 1344.1 | 1345.9 | 1345.3 |
| 5° | 1327.1 | 1326.4 | 1328.1 | 1329.9 | 1331.6 | 1335.1 | 1338.5 | 1343.7 | 1347.5 | 1350.5 | 1353.3 |
| 7.5° | 1301.3 | 1301.3 | 1303.6 | 1307.6 | 1311.5 | 1319.0 | 1327.1 | 1337.3 | 1347.5 | 1356.3 | 1363.6 |
| 10° | 1280.2 | 1281.3 | 1284.1 | 1291.0 | 1297.8 | 1309.3 | 1320.1 | 1335.1 | 1349.3 | 1363.6 | 1375.0 |
| 12.5° | 1267.6 | 1269.2 | 1274.3 | 1284.7 | 1296.2 | 1311.5 | 1328.1 | 1347.1 | 1363.1 | 1380.2 | 1391.7 |
| 15° | 1271.6 | 1272.7 | 1280.2 | 1292.8 | 1307.6 | 1327.1 | 1349.3 | 1371.6 | 1390.4 | 1408.8 | 1424.3 |
| 17.5° | 1293.9 | 1295.5 | 1304.1 | 1318.4 | 1334.0 | 1356.8 | 1380.8 | 1405.9 | 1429.5 | 1450.0 | 1468.9 |
| 20° | 1334.0 | 1335.6 | 1346.5 | 1361.9 | 1380.2 | 1403.7 | 1427.6 | 1453.9 | 1480.2 | 1502.1 | 1523.3 |
| 22.5° | 1390.4 | 1393.5 | 1403.7 | 1419.1 | 1439.8 | 1464.9 | 1493.5 | 1521.5 | 1546.6 | 1566.6 | 1585.6 |
| 25° | 1464.9 | 1471.2 | 1480.9 | 1498.1 | 1519.8 | 1542.7 | 1573.6 | 1602.1 | 1626.2 | 1645.1 | 1658.8 |
| 27.5° | 1570.1 | 1578.7 | 1586.1 | 1602.8 | 1623.9 | 1645.7 | 1676.4 | 1701.7 | 1724.6 | 1742.8 | 1753.1 |
| 30° | 1709.7 | 1718.3 | 1725.7 | 1741.8 | 1761.1 | 1781.8 | 1811.0 | 1833.3 | 1847.5 | 1861.8 | 1861.3 |
| 32.5° | 1879.0 | 1888.1 | 1891.0 | 1908.2 | 1928.2 | 1950.5 | 1976.8 | 1989.3 | 2000.9 | 2002.5 | 1992.3 |
| 35° | 2068.3 | 2072.8 | 2084.3 | 2107.2 | 2130.2 | 2148.3 | 2173.5 | 2179.8 | 2179.8 | 2171.4 | 2148.3 |
| 37.5° | 2275.9 | 2278.8 | 2294.8 | 2320.6 | 2344.0 | 2362.9 | 2380.1 | 2392.6 | 2386.3 | 2368.0 | 2329.8 |
| 40° | 2503.5 | 2508.7 | 2531.7 | 2554.5 | 2580.8 | 2598.5 | 2616.9 | 2619.2 | 2612.9 | 2586.0 | 2533.8 |
| 42.5° | 2721.0 | 2725.5 | 2748.5 | 2784.4 | 2818.8 | 2843.3 | 2860.6 | 2863.9 | 2843.9 | 2819.3 | 2754.7 |
| 45° | 2908.1 | 2920.0 | 2949.8 | 2992.1 | 3041.8 | 3076.8 | 3100.2 | 3109.9 | 3092.1 | 3060.2 | 2985.2 |
| 47.5° | 3056.2 | 3068.3 | 3110.6 | 3160.9 | 3222.6 | 3279.3 | 3318.1 | 3338.7 | 3334.1 | 3310.2 | 3228.2 |
| 50° | 3164.8 | 3176.2 | 3222.0 | 3283.8 | 3355.9 | 3426.2 | 3492.6 | 3541.7 | 3558.9 | 3548.0 | 3473.1 |
| 52.5° | 3177.5 | 3196.3 | 3250.1 | 3333.0 | 3426.9 | 3523.0 | 3617.2 | 3700.7 | 3757.4 | 3766.1 | 3710.4 |
| 55° | 3001.9 | 3020.7 | 3095.0 | 3218.0 | 3357.5 | 3514.3 | 3665.4 | 3805.9 | 3917.6 | 3974.8 | 3945.5 |
| 57.5° | 2587.7 | 2621.4 | 2699.8 | 2843.9 | 3049.2 | 3283.8 | 3524.6 | 3774.6 | 4001.7 | 4153.3 | 4182.4 |
| 60° | 1983.1 | 2023.2 | 2102.0 | 2255.4 | 2484.2 | 2763.8 | 3085.3 | 3454.8 | 3855.9 | 4196.7 | 4400.3 |
| 62.5° | 1272.1 | 1309.9 | 1392.8 | 1526.1 | 1712.6 | 2015.6 | 2360.7 | 2799.3 | 3338.1 | 3876.4 | 4361.5 |
| 65° | 653.7 | 674.4 | 717.8 | 798.6 | 943.8 | 1170.3 | 1479.8 | 1917.3 | 2533.4 | 3197.4 | 3898.7 |
| 67.5° | 414.1 | 418.2 | 427.9 | 439.4 | 476.6 | 554.9 | 699.1 | 971.8 | 1478.6 | 2171.4 | 2992.1 |
| 70° | 358.1 | 358.1 | 353.6 | 351.7 | 356.4 | 367.1 | 389.5 | 453.0 | 624.1 | 1030.7 | 1725.7 |
| 72.5° | 327.7 | 324.3 | 316.4 | 310.1 | 308.8 | 308.8 | 313.5 | 323.2 | 350.6 | 419.9 | 675.5 |
| 75° | 302.0 | 292.3 | 281.3 | 274.1 | 271.1 | 268.2 | 267.6 | 269.4 | 275.2 | 286.0 | 322.6 |
| 77.5° | 270.6 | 258.0 | 245.3 | 238.0 | 234.5 | 230.5 | 227.1 | 223.0 | 220.3 | 223.7 | 239.7 |
| 80° | 232.8 | 218.5 | 208.8 | 204.3 | 200.9 | 195.0 | 187.7 | 180.7 | 174.5 | 173.4 | 183.1 |
| 82.5° | 187.7 | 171.0 | 171.5 | 173.4 | 167.1 | 159.0 | 151.1 | 143.5 | 132.7 | 127.0 | 132.7 |
| 85° | 151.5 | 143.0 | 139.0 | 149.8 | 140.8 | 128.6 | 116.2 | 102.9 | 85.8 | 72.0 | 78.3 |
| 87.5° | 58.8 | 58.8 | 88.0 | 135.6 | 121.8 | 99.5 | 85.2 | 72.7 | 45.2 | 34.9 | 35.5 |
| 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° | 1342.4 | 1342.4 | 1342.4 | 1342.4 | 1342.4 | 1342.4 | 1342.4 | 1342.4 |
| 2.5° | 1344.8 | 1345.9 | 1345.3 | 1344.8 | 1344.8 | 1344.1 | 1344.8 | 1344.8 |
| 5° | 1355.1 | 1357.9 | 1357.9 | 1359.0 | 1359.0 | 1359.7 | 1360.3 | 1359.7 |
| 7.5° | 1370.5 | 1375.7 | 1379.1 | 1383.1 | 1383.7 | 1384.2 | 1385.4 | 1384.2 |
| 10° | 1385.9 | 1396.2 | 1403.7 | 1411.1 | 1414.6 | 1415.6 | 1416.8 | 1416.8 |
| 12.5° | 1405.4 | 1419.7 | 1432.8 | 1446.0 | 1452.3 | 1455.8 | 1455.8 | 1457.9 |
| 15° | 1437.4 | 1451.8 | 1467.1 | 1484.9 | 1495.8 | 1501.4 | 1503.3 | 1503.3 |
| 17.5° | 1482.7 | 1495.1 | 1508.3 | 1525.5 | 1539.2 | 1546.6 | 1548.4 | 1547.8 |
| 20° | 1535.3 | 1547.2 | 1554.6 | 1565.6 | 1577.6 | 1586.1 | 1588.5 | 1588.5 |
| 22.5° | 1595.3 | 1602.1 | 1603.2 | 1606.7 | 1616.4 | 1627.9 | 1632.9 | 1634.1 |
| 25° | 1661.7 | 1663.3 | 1658.8 | 1658.8 | 1665.1 | 1676.0 | 1681.1 | 1681.6 |
| 27.5° | 1747.5 | 1738.8 | 1727.4 | 1723.4 | 1727.4 | 1739.9 | 1746.2 | 1748.6 |
| 30° | 1854.5 | 1833.8 | 1807.5 | 1793.1 | 1791.0 | 1807.5 | 1819.0 | 1820.7 |
| 32.5° | 1976.8 | 1947.0 | 1912.1 | 1882.9 | 1875.7 | 1885.8 | 1899.6 | 1898.9 |
| 35° | 2122.1 | 2086.7 | 2044.4 | 2007.2 | 1989.9 | 2000.3 | 2019.7 | 2021.9 |
| 37.5° | 2289.7 | 2243.3 | 2194.6 | 2147.8 | 2121.0 | 2123.9 | 2144.4 | 2151.4 |
| 40° | 2476.7 | 2416.7 | 2355.4 | 2292.6 | 2254.2 | 2246.8 | 2272.0 | 2275.9 |
| 42.5° | 2676.9 | 2599.8 | 2522.5 | 2444.6 | 2395.5 | 2384.0 | 2413.2 | 2411.5 |
| 45° | 2890.2 | 2791.9 | 2701.6 | 2615.8 | 2557.4 | 2540.1 | 2564.2 | 2564.2 |
| 47.5° | 3119.6 | 2998.5 | 2890.8 | 2793.5 | 2730.0 | 2705.5 | 2728.4 | 2730.0 |
| 50° | 3362.7 | 3234.1 | 3107.6 | 2999.5 | 2923.4 | 2892.1 | 2921.7 | 2926.3 |
| 52.5° | 3604.7 | 3479.4 | 3351.8 | 3228.2 | 3136.3 | 3098.0 | 3132.2 | 3147.1 |
| 55° | 3850.0 | 3727.1 | 3605.3 | 3484.5 | 3375.3 | 3330.1 | 3366.8 | 3385.6 |
| 57.5° | 4109.1 | 3995.3 | 3879.2 | 3757.4 | 3652.1 | 3581.8 | 3620.7 | 3646.0 |
| 60° | 4413.0 | 4315.6 | 4194.9 | 4060.6 | 3954.2 | 3882.7 | 3905.0 | 3927.3 |
| 62.5° | 4653.2 | 4690.9 | 4588.5 | 4433.0 | 4296.2 | 4204.6 | 4226.4 | 4249.9 |
| 65° | 4537.0 | 4924.2 | 5015.2 | 4857.9 | 4668.6 | 4526.2 | 4516.9 | 4529.1 |
| 67.5° | 3792.4 | 4544.4 | 5093.0 | 5242.9 | 5084.4 | 4886.5 | 4849.9 | 4867.6 |
| 70° | 2536.8 | 3473.7 | 4441.5 | 5162.2 | 5353.9 | 5277.3 | 5241.3 | 5252.0 |
| 72.5° | 1218.3 | 2023.2 | 3013.3 | 3971.3 | 4554.8 | 4822.6 | 4908.2 | 4950.0 |
| 75° | 445.6 | 803.1 | 1452.3 | 2188.5 | 2642.1 | 3058.4 | 3330.1 | 3441.0 |
| 77.5° | 268.9 | 324.3 | 463.9 | 698.4 | 791.0 | 885.5 | 848.9 | 867.1 |
| 80° | 199.1 | 224.8 | 254.5 | 286.0 | 296.4 | 296.4 | 284.9 | 275.7 |
| 82.5° | 139.5 | 156.1 | 170.5 | 187.7 | 192.1 | 183.7 | 151.1 | 120.2 |
| 85° | 89.8 | 97.2 | 103.6 | 114.4 | 111.5 | 106.4 | 71.4 | 63.5 |
| 87.5° | 41.2 | 46.9 | 49.1 | 54.3 | 52.0 | 49.8 | 35.5 | 29.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)