

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: P270232

Luminaire Tested: **GWC-AF-02-LED-E1-T3-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-7027-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11841.5 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

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

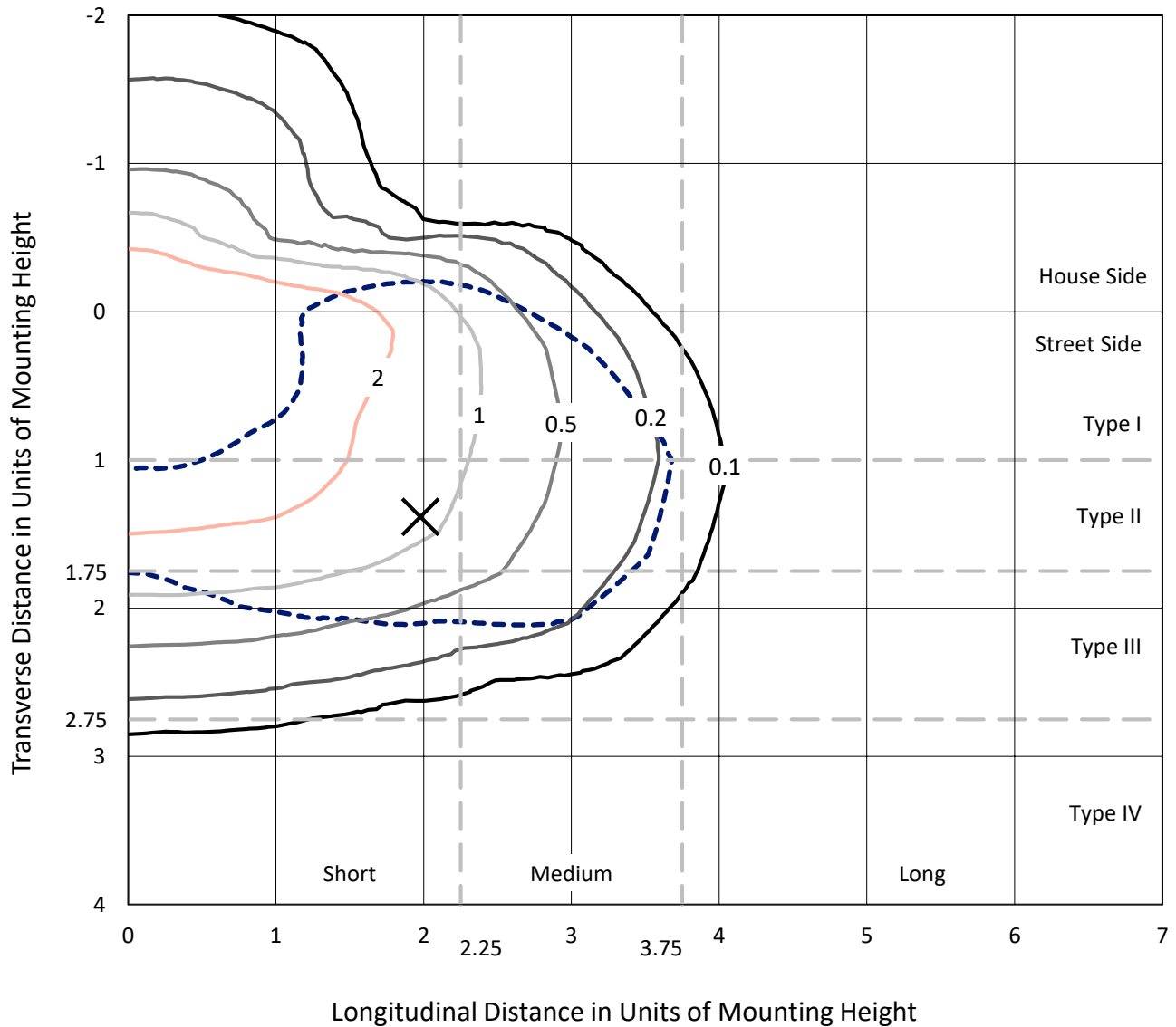


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

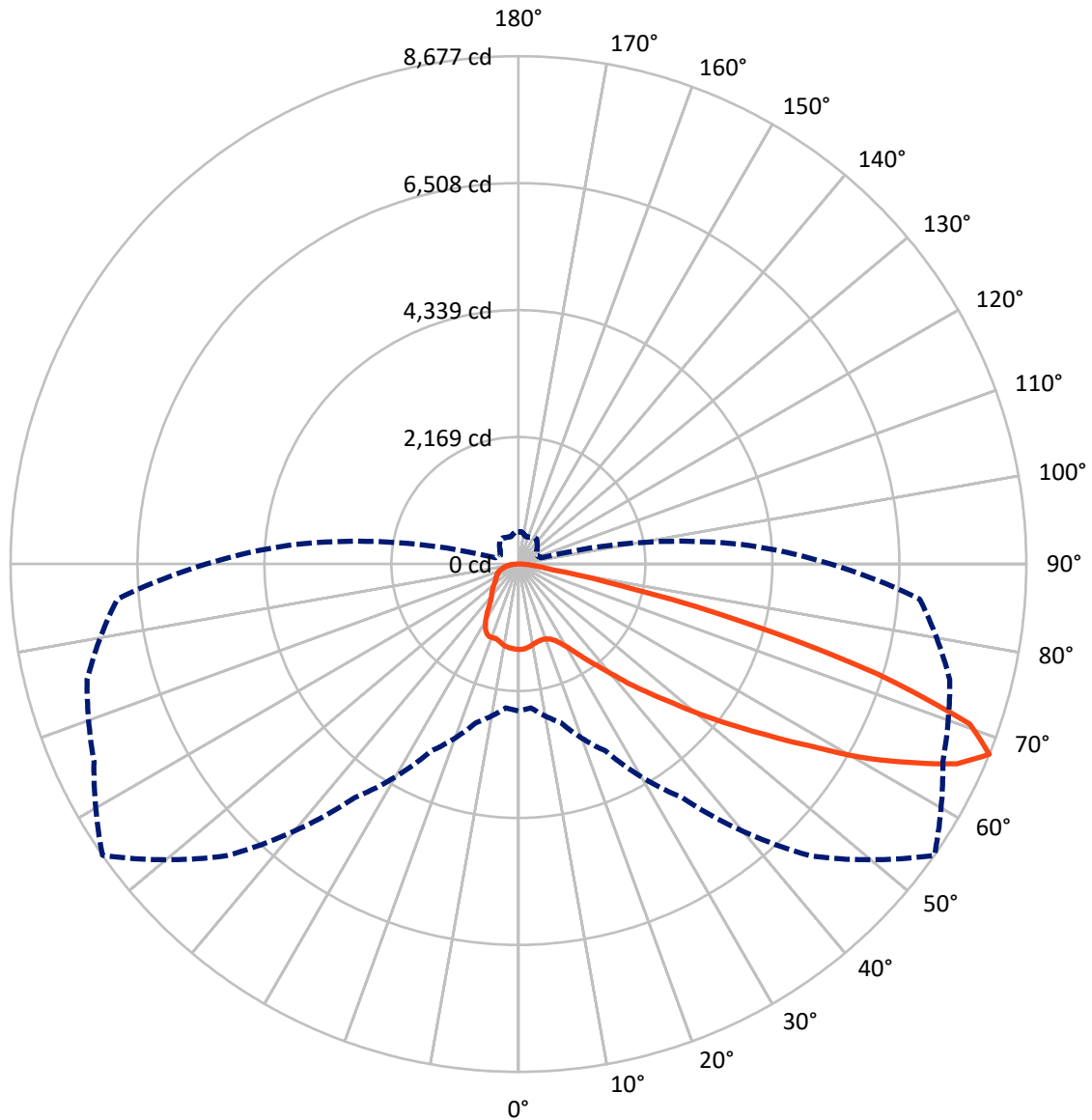


Based on 20 foot mounting height. Maximum calculated value = 3.8 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2558.0 | 0.0 | 2558.0 |
| | % Fixture | 21.6 | 0.0 | 21.6 |
| Street Side | Lumens | 9283.5 | 0.0 | 9283.5 |
| | % Fixture | 78.4 | 0.0 | 78.4 |
| Total | Lumens | 11841.5 | 0.0 | 11841.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 136.3 | 1.2 |
| 10°-20° | 386.0 | 3.3 |
| 20°-30° | 646.6 | 5.5 |
| 30°-40° | 1063.3 | 9.0 |
| 40°-50° | 1789.9 | 15.1 |
| 50°-60° | 2817.1 | 23.8 |
| 60°-70° | 3361.9 | 28.4 |
| 70°-80° | 1443.7 | 12.2 |
| 80°-90° | 196.8 | 1.7 |
| 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° | 11841.5 | 100.0 |
| 0°-180° | 11841.5 | 100.0 |



REPORT NUMBER: P270232

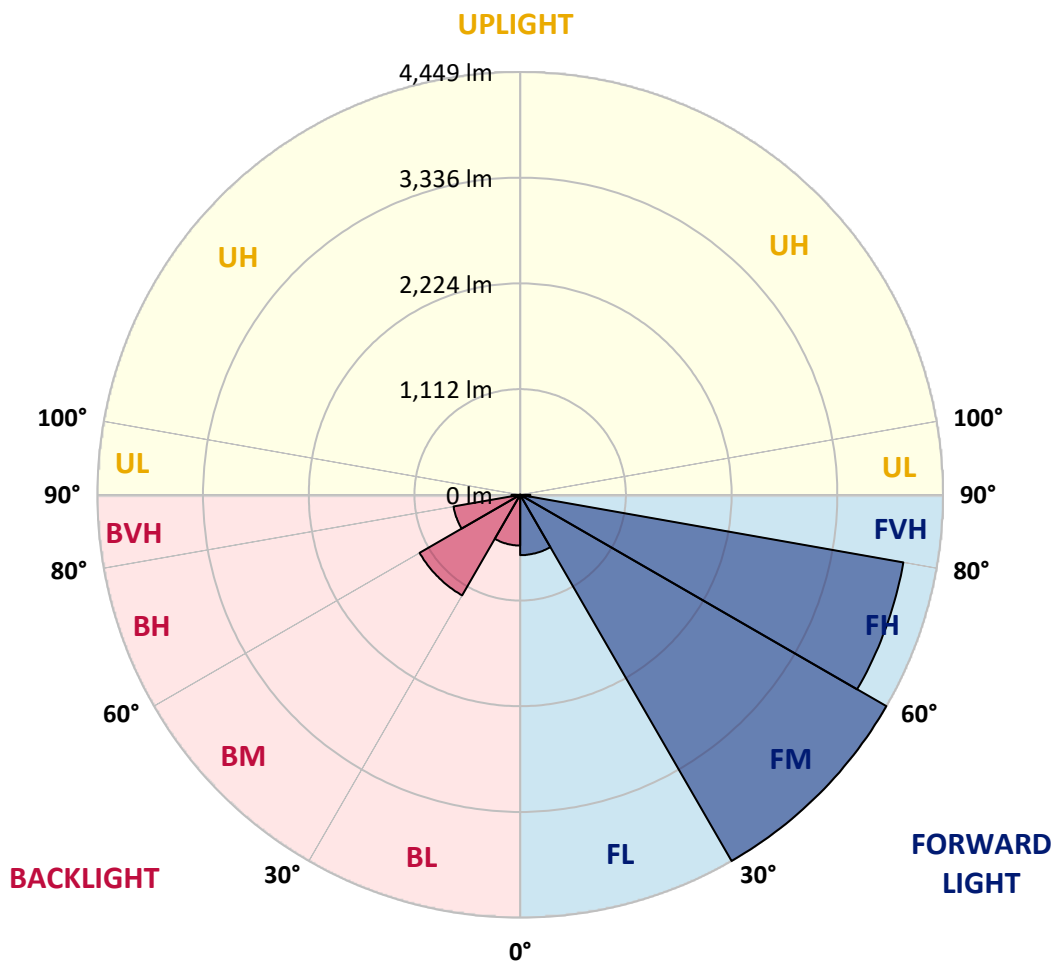
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 634.7 | 5.4 | | | |
| FM (30°-60°) | 4448.6 | 37.6 | | | |
| FH (60°-80°) | 4093.7 | 34.6 | | | G2/5000 |
| FVH (80°-90°) | 106.5 | 0.9 | | | G2/225 |
| BL (0°-30°) | 534.2 | 4.5 | B2/1000 | | |
| BM (30°-60°) | 1221.7 | 10.3 | B2/2500 | | |
| BH (60°-80°) | 711.9 | 6.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 90.3 | 0.8 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1460.1 | 1460.1 | 1460.1 | 1460.1 | 1460.1 | 1460.1 | 1460.1 | 1460.1 | 1460.1 | 1460.1 | 1460.1 |
| 2.5° | 1447.6 | 1448.2 | 1449.3 | 1453.8 | 1457.9 | 1456.7 | 1457.3 | 1455.1 | 1454.4 | 1451.0 | 1454.4 |
| 5° | 1429.4 | 1431.0 | 1431.5 | 1439.1 | 1443.5 | 1444.7 | 1443.0 | 1440.3 | 1436.7 | 1433.3 | 1435.0 |
| 7.5° | 1387.5 | 1392.2 | 1392.7 | 1403.1 | 1410.3 | 1420.2 | 1420.7 | 1421.3 | 1419.6 | 1417.3 | 1420.7 |
| 10° | 1361.2 | 1362.4 | 1361.8 | 1369.2 | 1374.9 | 1385.8 | 1392.2 | 1403.1 | 1407.6 | 1408.7 | 1411.0 |
| 12.5° | 1359.6 | 1358.3 | 1356.7 | 1356.7 | 1355.0 | 1359.6 | 1371.0 | 1386.4 | 1397.3 | 1400.6 | 1403.6 |
| 15° | 1377.8 | 1377.2 | 1371.5 | 1363.0 | 1352.0 | 1348.6 | 1358.3 | 1375.6 | 1389.9 | 1397.3 | 1400.2 |
| 17.5° | 1419.1 | 1415.5 | 1406.4 | 1387.1 | 1363.5 | 1354.4 | 1355.5 | 1369.8 | 1386.4 | 1396.1 | 1399.0 |
| 20° | 1494.5 | 1494.5 | 1475.0 | 1438.5 | 1396.8 | 1374.9 | 1364.6 | 1373.2 | 1389.3 | 1402.4 | 1406.4 |
| 22.5° | 1624.9 | 1626.0 | 1593.5 | 1533.3 | 1463.1 | 1416.7 | 1390.9 | 1389.3 | 1408.2 | 1423.0 | 1427.5 |
| 25° | 1809.6 | 1805.1 | 1759.3 | 1673.5 | 1566.6 | 1489.8 | 1445.4 | 1435.0 | 1451.0 | 1467.7 | 1473.3 |
| 27.5° | 2024.7 | 2008.2 | 1953.9 | 1850.2 | 1711.9 | 1599.7 | 1531.2 | 1514.5 | 1530.0 | 1548.9 | 1554.5 |
| 30° | 2237.5 | 2220.3 | 2155.8 | 2042.4 | 1888.5 | 1746.8 | 1648.4 | 1621.5 | 1643.2 | 1670.0 | 1673.5 |
| 32.5° | 2450.2 | 2450.2 | 2378.3 | 2246.0 | 2078.5 | 1922.4 | 1804.5 | 1772.4 | 1808.5 | 1841.2 | 1848.5 |
| 35° | 2704.7 | 2706.0 | 2636.2 | 2477.2 | 2297.0 | 2131.7 | 2001.9 | 1978.3 | 2032.8 | 2055.6 | 2073.3 |
| 37.5° | 3017.6 | 3024.0 | 2934.1 | 2741.9 | 2544.5 | 2370.7 | 2216.3 | 2184.3 | 2238.7 | 2301.0 | 2358.2 |
| 40° | 3355.7 | 3363.7 | 3264.7 | 3027.8 | 2830.6 | 2648.7 | 2481.7 | 2423.9 | 2514.3 | 2633.3 | 2707.0 |
| 42.5° | 3678.2 | 3719.4 | 3623.9 | 3380.2 | 3168.1 | 2979.9 | 2810.5 | 2726.4 | 2839.7 | 3019.4 | 3083.4 |
| 45° | 4144.4 | 4174.2 | 4007.7 | 3787.0 | 3587.3 | 3376.8 | 3152.6 | 3063.9 | 3222.4 | 3448.9 | 3462.1 |
| 47.5° | 4455.0 | 4432.6 | 4347.9 | 4210.7 | 4084.4 | 3887.5 | 3550.1 | 3452.8 | 3663.4 | 3929.8 | 3856.2 |
| 50° | 4620.3 | 4627.1 | 4615.6 | 4623.7 | 4628.2 | 4504.7 | 4037.4 | 3904.2 | 4155.2 | 4477.2 | 4307.4 |
| 52.5° | 4774.6 | 4728.9 | 4766.6 | 4954.2 | 5180.7 | 5135.0 | 4567.6 | 4428.6 | 4682.5 | 5084.6 | 4784.5 |
| 55° | 4771.3 | 4701.5 | 4824.3 | 5155.6 | 5646.8 | 5699.4 | 5163.0 | 5002.9 | 5240.3 | 5736.0 | 5289.9 |
| 57.5° | 4602.5 | 4605.9 | 4795.2 | 5228.8 | 5971.8 | 6230.3 | 5854.0 | 5613.7 | 5831.6 | 6396.1 | 5751.6 |
| 60° | 4370.3 | 4401.8 | 4674.6 | 5216.7 | 6232.0 | 6665.6 | 6701.5 | 6272.1 | 6411.1 | 6996.1 | 6133.6 |
| 62.5° | 3995.8 | 4028.9 | 4405.2 | 5092.1 | 6192.6 | 7084.8 | 7468.0 | 7018.9 | 7016.8 | 7360.0 | 6245.7 |
| 65° | 3404.8 | 3395.1 | 3790.3 | 4625.9 | 5861.4 | 7394.8 | 8229.3 | 7664.8 | 7473.1 | 7365.7 | 6020.4 |
| 67.5° | 2510.9 | 2467.5 | 2806.6 | 3523.2 | 4871.9 | 7047.7 | 8677.1 | 8001.1 | 7628.6 | 6881.1 | 5331.7 |
| 70° | 1302.9 | 1259.5 | 1533.9 | 2057.3 | 3204.1 | 5500.5 | 8181.3 | 7827.2 | 7285.0 | 5768.1 | 4176.9 |
| 72.5° | 557.0 | 549.7 | 661.2 | 902.5 | 1549.9 | 3172.6 | 6415.1 | 6774.7 | 6250.9 | 4297.6 | 2871.8 |
| 75° | 374.7 | 372.3 | 414.1 | 491.9 | 697.3 | 1287.5 | 4014.5 | 4808.9 | 4573.4 | 2664.7 | 1615.2 |
| 77.5° | 293.9 | 291.1 | 315.8 | 353.5 | 451.8 | 507.9 | 1781.6 | 2581.8 | 2389.6 | 1159.9 | 707.0 |
| 80° | 230.0 | 227.6 | 243.1 | 263.7 | 324.8 | 320.2 | 586.2 | 1027.2 | 795.0 | 444.4 | 343.7 |
| 82.5° | 181.3 | 181.3 | 193.9 | 194.5 | 230.4 | 218.5 | 306.1 | 452.4 | 397.0 | 259.2 | 210.5 |
| 85° | 165.8 | 165.8 | 179.0 | 145.3 | 150.5 | 137.8 | 189.9 | 268.2 | 251.6 | 106.4 | 91.4 |
| 87.5° | 83.5 | 81.1 | 150.5 | 128.6 | 81.7 | 73.2 | 92.6 | 129.8 | 139.5 | 58.8 | 45.8 |
| 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):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1460.1 | 1460.1 | 1460.1 | 1460.1 | 1460.1 | 1460.1 | 1460.1 | 1460.1 | 1460.1 | 1460.1 |
| 2.5° | 1453.4 | 1452.7 | 1453.8 | 1454.4 | 1459.0 | 1465.3 | 1468.2 | 1472.2 | 1474.5 | 1473.3 |
| 5° | 1436.2 | 1437.3 | 1441.9 | 1445.4 | 1453.4 | 1463.6 | 1469.4 | 1473.8 | 1477.9 | 1476.3 |
| 7.5° | 1421.8 | 1424.7 | 1431.5 | 1434.5 | 1439.1 | 1441.9 | 1441.3 | 1443.0 | 1446.5 | 1442.5 |
| 10° | 1413.8 | 1417.3 | 1422.5 | 1418.5 | 1407.6 | 1392.2 | 1377.8 | 1370.5 | 1372.7 | 1369.8 |
| 12.5° | 1405.8 | 1410.3 | 1406.4 | 1387.5 | 1357.2 | 1337.2 | 1326.3 | 1327.4 | 1332.6 | 1333.9 |
| 15° | 1401.3 | 1403.1 | 1385.8 | 1350.4 | 1319.5 | 1316.6 | 1322.3 | 1321.1 | 1321.8 | 1321.8 |
| 17.5° | 1401.3 | 1396.8 | 1364.6 | 1329.2 | 1316.0 | 1310.9 | 1293.2 | 1270.9 | 1261.2 | 1257.7 |
| 20° | 1408.7 | 1396.8 | 1357.8 | 1334.3 | 1305.7 | 1261.7 | 1214.8 | 1173.6 | 1155.3 | 1150.2 |
| 22.5° | 1431.0 | 1410.3 | 1377.2 | 1336.7 | 1255.4 | 1181.6 | 1107.3 | 1058.2 | 1025.0 | 1019.2 |
| 25° | 1476.3 | 1453.4 | 1415.5 | 1306.3 | 1175.3 | 1070.2 | 985.5 | 930.6 | 897.3 | 892.8 |
| 27.5° | 1555.1 | 1540.2 | 1436.2 | 1239.4 | 1069.0 | 956.2 | 878.0 | 835.7 | 811.0 | 809.4 |
| 30° | 1674.1 | 1666.6 | 1425.9 | 1140.5 | 938.0 | 845.9 | 808.1 | 783.6 | 765.3 | 764.6 |
| 32.5° | 1864.1 | 1803.9 | 1392.2 | 1019.8 | 818.4 | 767.5 | 752.2 | 737.2 | 723.0 | 723.0 |
| 35° | 2108.2 | 1914.8 | 1328.1 | 890.5 | 745.9 | 724.2 | 704.6 | 681.2 | 662.3 | 661.2 |
| 37.5° | 2395.3 | 1983.5 | 1213.2 | 786.5 | 711.5 | 694.8 | 666.4 | 631.4 | 598.4 | 592.5 |
| 40° | 2685.4 | 2004.1 | 1051.2 | 722.3 | 689.8 | 665.7 | 630.9 | 589.6 | 557.7 | 556.0 |
| 42.5° | 2951.3 | 1964.7 | 879.7 | 678.3 | 668.0 | 636.0 | 599.3 | 562.8 | 537.6 | 537.0 |
| 45° | 3174.3 | 1862.2 | 735.5 | 636.5 | 645.2 | 609.1 | 576.5 | 546.8 | 527.3 | 523.4 |
| 47.5° | 3384.3 | 1717.6 | 634.4 | 592.5 | 622.3 | 594.3 | 566.8 | 538.8 | 519.8 | 517.1 |
| 50° | 3627.9 | 1561.4 | 563.3 | 549.7 | 602.3 | 589.1 | 574.8 | 545.6 | 514.2 | 510.7 |
| 52.5° | 3923.0 | 1426.5 | 507.9 | 511.9 | 586.9 | 595.9 | 595.3 | 565.2 | 510.1 | 505.6 |
| 55° | 4252.4 | 1276.6 | 466.1 | 481.0 | 580.6 | 608.5 | 600.5 | 583.4 | 513.7 | 506.7 |
| 57.5° | 4576.8 | 1101.6 | 436.9 | 457.5 | 571.4 | 607.4 | 576.0 | 551.4 | 521.6 | 511.9 |
| 60° | 4819.9 | 866.5 | 414.7 | 436.9 | 551.4 | 588.5 | 549.0 | 516.4 | 519.8 | 512.5 |
| 62.5° | 4835.8 | 669.7 | 387.8 | 419.2 | 521.0 | 569.6 | 531.3 | 501.1 | 527.3 | 520.5 |
| 65° | 4551.6 | 506.1 | 362.0 | 398.0 | 488.5 | 557.7 | 514.2 | 492.5 | 542.8 | 535.3 |
| 67.5° | 3832.1 | 407.2 | 340.3 | 376.3 | 455.8 | 532.4 | 498.7 | 484.5 | 556.5 | 543.4 |
| 70° | 2766.5 | 347.1 | 319.2 | 350.0 | 426.6 | 503.9 | 485.1 | 470.2 | 519.3 | 498.7 |
| 72.5° | 1703.2 | 300.8 | 295.2 | 315.1 | 404.3 | 474.1 | 464.5 | 443.3 | 467.8 | 451.3 |
| 75° | 850.4 | 260.8 | 268.2 | 280.8 | 372.8 | 440.3 | 430.1 | 409.0 | 412.4 | 409.0 |
| 77.5° | 407.2 | 223.0 | 236.9 | 246.6 | 332.4 | 402.1 | 391.2 | 369.6 | 365.5 | 366.1 |
| 80° | 258.0 | 186.5 | 199.7 | 206.5 | 296.8 | 357.4 | 346.6 | 324.8 | 370.6 | 343.7 |
| 82.5° | 161.2 | 151.5 | 155.0 | 167.5 | 258.5 | 311.2 | 296.8 | 277.3 | 334.0 | 264.2 |
| 85° | 89.2 | 105.8 | 110.4 | 121.2 | 199.1 | 260.1 | 246.0 | 221.3 | 198.4 | 195.0 |
| 87.5° | 53.2 | 62.9 | 64.7 | 72.7 | 133.8 | 188.1 | 166.5 | 157.8 | 131.0 | 130.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)