

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: P382951

Luminaire Tested: **GLEON-SA3A-735-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3A-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13005.3 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

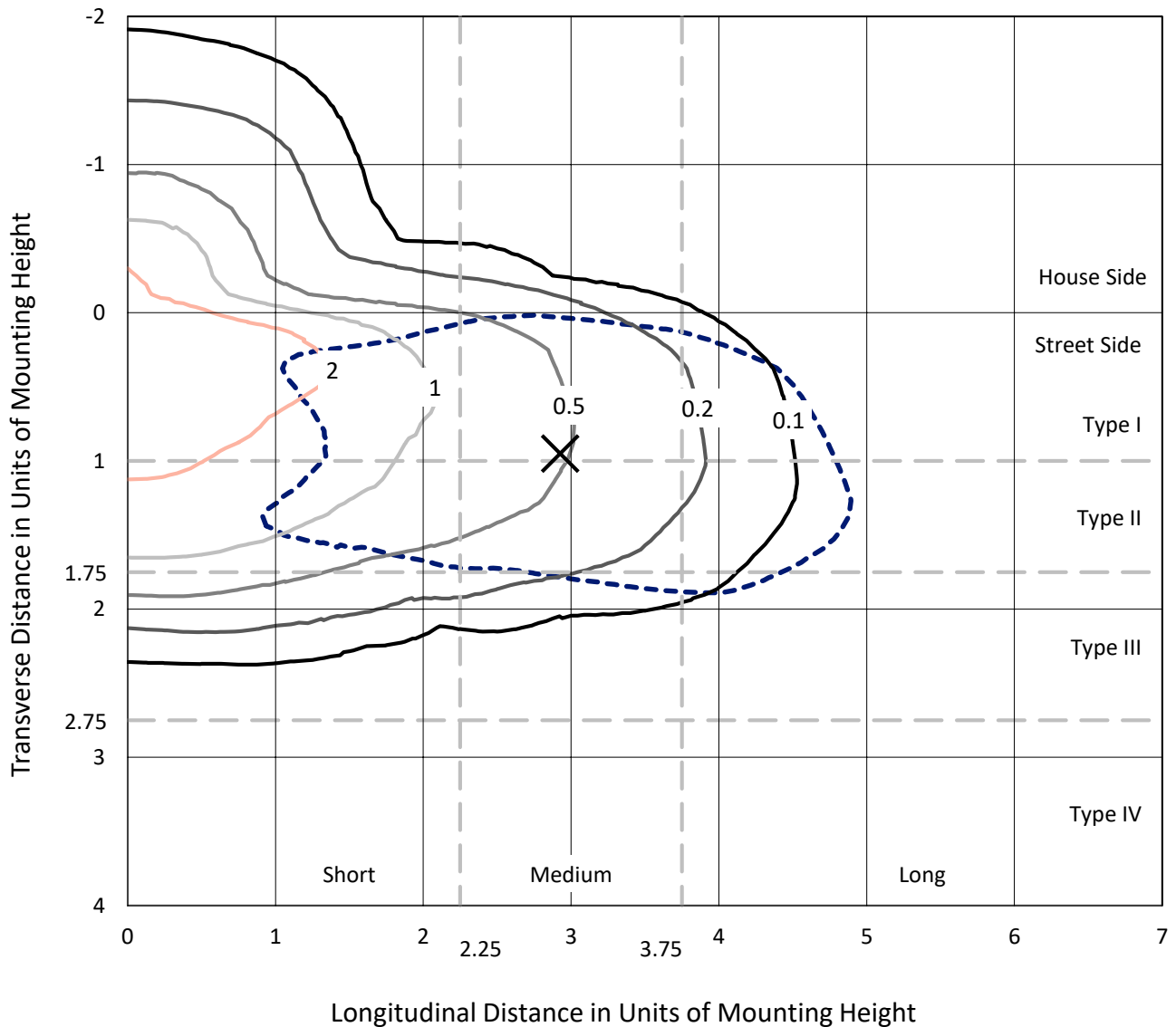
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

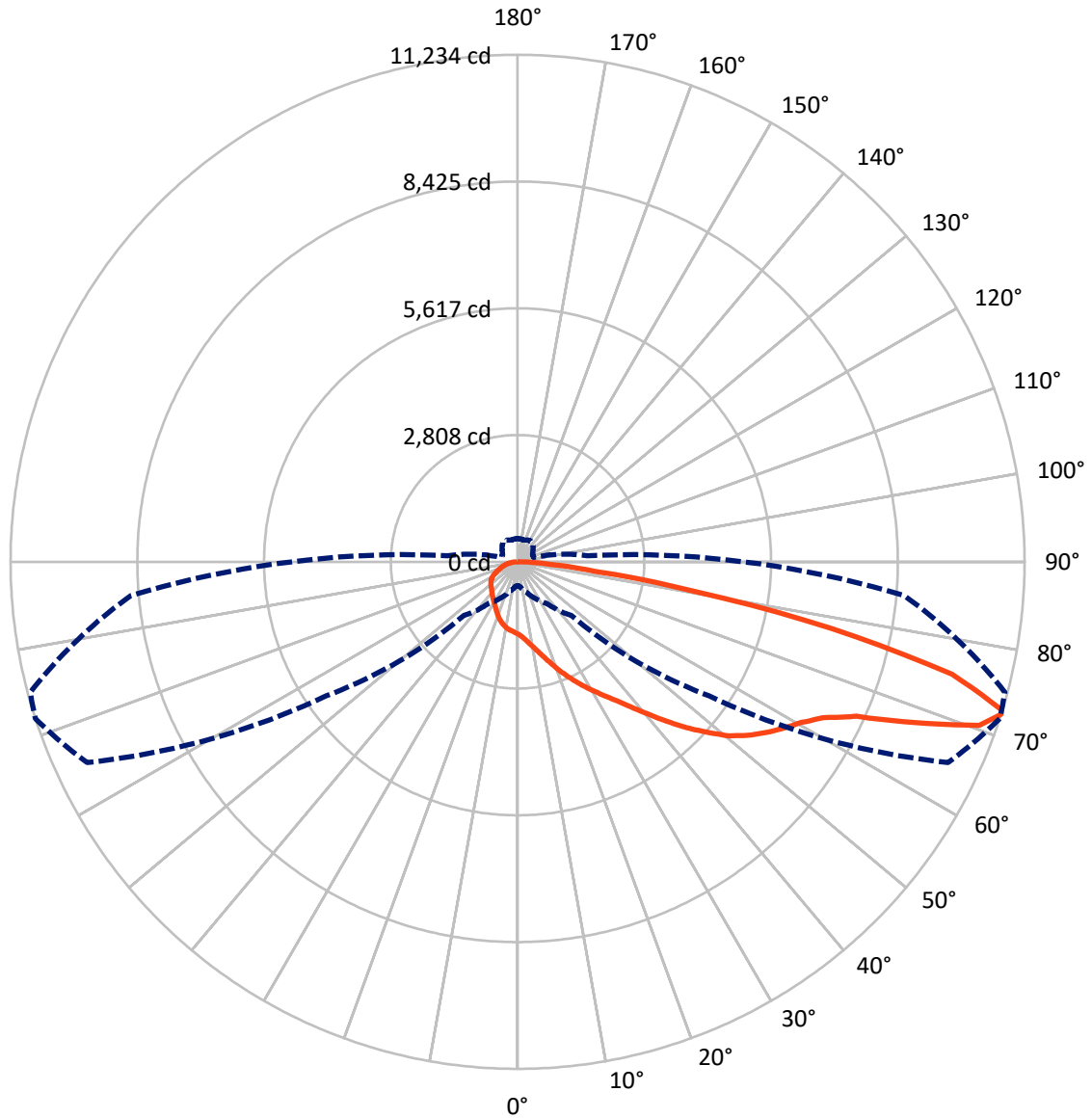
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2412.6 | 0.0 | 2412.6 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 10592.8 | 0.0 | 10592.8 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 13005.3 | 0.0 | 13005.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 160.3 | 1.2 |
| 10°-20° | 518.1 | 4.0 |
| 20°-30° | 907.9 | 7.0 |
| 30°-40° | 1346.1 | 10.4 |
| 40°-50° | 1968.7 | 15.1 |
| 50°-60° | 2709.0 | 20.8 |
| 60°-70° | 3015.9 | 23.2 |
| 70°-80° | 2043.5 | 15.7 |
| 80°-90° | 335.9 | 2.6 |
| 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° | 13005.3 | 100.0 |
| 0°-180° | 13005.3 | 100.0 |

Coefficient of Utilization

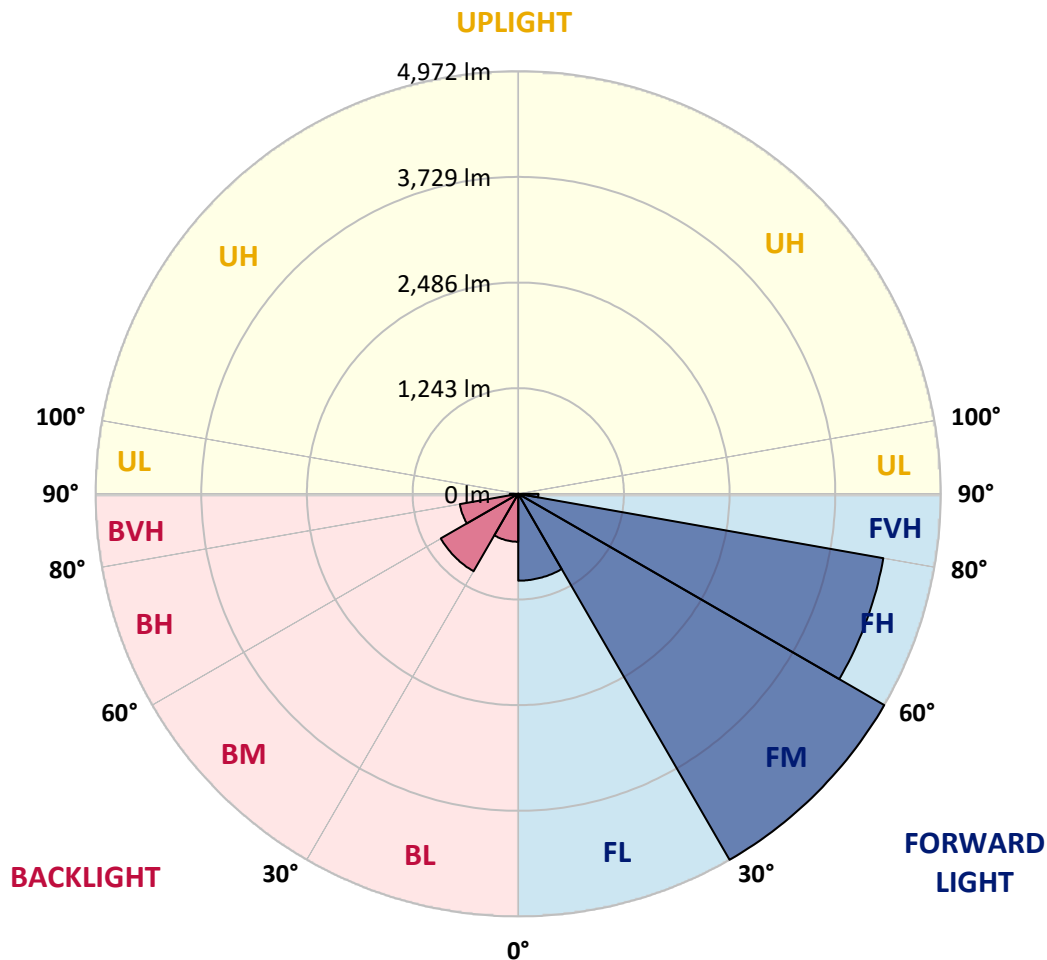


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1022.3 | 7.9 | | | |
| FM (30°-60°) | 4972.1 | 38.2 | | | |
| FH (60°-80°) | 4361.4 | 33.5 | | | G2/5000 |
| FVH (80°-90°) | 236.9 | 1.8 | | | G3/500 |
| BL (0°-30°) | 564.0 | 4.3 | B2/1000 | | |
| BM (30°-60°) | 1051.7 | 8.1 | B2/2500 | | |
| BH (60°-80°) | 698.0 | 5.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 99.0 | 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-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 72° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|
| 0° | 1600.0 | 1600.0 | 1600.0 | 1600.0 | 1600.0 | 1600.0 | 1600.0 | 1600.0 | 1600.0 | 1600.0 | 1600.0 |
| 2.5° | 1767.5 | 1764.8 | 1755.4 | 1755.4 | 1737.4 | 1722.2 | 1693.6 | 1674.4 | 1651.4 | 1643.4 | 1616.6 |
| 5° | 1938.6 | 1939.4 | 1927.7 | 1919.7 | 1893.3 | 1861.0 | 1812.2 | 1767.9 | 1723.5 | 1705.7 | 1650.6 |
| 7.5° | 2082.3 | 2080.5 | 2077.4 | 2070.6 | 2046.1 | 2012.9 | 1947.0 | 1881.3 | 1815.9 | 1788.9 | 1694.0 |
| 10° | 2174.5 | 2178.5 | 2181.2 | 2184.4 | 2174.0 | 2150.4 | 2088.1 | 2008.0 | 1922.4 | 1885.7 | 1746.0 |
| 12.5° | 2221.1 | 2228.3 | 2240.8 | 2262.3 | 2279.3 | 2276.6 | 2231.4 | 2146.3 | 2044.7 | 1998.5 | 1810.9 |
| 15° | 2248.4 | 2257.8 | 2277.5 | 2316.0 | 2364.0 | 2391.3 | 2379.2 | 2302.1 | 2188.9 | 2131.9 | 1890.2 |
| 17.5° | 2265.4 | 2273.1 | 2303.5 | 2355.0 | 2426.2 | 2498.7 | 2530.5 | 2466.1 | 2351.9 | 2286.9 | 1981.0 |
| 20° | 2277.1 | 2282.9 | 2321.0 | 2381.4 | 2473.6 | 2589.1 | 2677.8 | 2661.7 | 2531.4 | 2447.3 | 2076.0 |
| 22.5° | 2303.1 | 2308.0 | 2344.2 | 2405.2 | 2507.3 | 2656.4 | 2819.8 | 2844.0 | 2720.9 | 2625.5 | 2177.7 |
| 25° | 2375.6 | 2375.6 | 2406.0 | 2448.6 | 2544.4 | 2714.5 | 2939.8 | 3046.8 | 2914.3 | 2803.2 | 2271.7 |
| 27.5° | 2514.0 | 2512.6 | 2523.8 | 2538.6 | 2611.1 | 2773.7 | 3046.8 | 3225.9 | 3114.9 | 2993.5 | 2363.1 |
| 30° | 2677.8 | 2686.8 | 2688.2 | 2681.0 | 2715.0 | 2847.6 | 3145.8 | 3415.0 | 3316.9 | 3186.1 | 2456.7 |
| 32.5° | 2888.7 | 2894.6 | 2887.9 | 2864.1 | 2859.2 | 2952.4 | 3243.0 | 3612.8 | 3535.4 | 3387.2 | 2542.2 |
| 35° | 3156.5 | 3145.4 | 3124.3 | 3076.0 | 3029.9 | 3092.6 | 3354.0 | 3810.8 | 3780.8 | 3630.3 | 2659.9 |
| 37.5° | 3443.6 | 3444.0 | 3418.0 | 3308.4 | 3244.8 | 3271.6 | 3507.2 | 4035.2 | 4077.7 | 3919.6 | 2810.9 |
| 40° | 3673.7 | 3685.9 | 3702.0 | 3557.8 | 3475.4 | 3512.6 | 3702.0 | 4295.3 | 4428.8 | 4262.7 | 3007.4 |
| 42.5° | 3834.5 | 3848.4 | 3894.1 | 3803.6 | 3718.1 | 3787.0 | 3931.2 | 4573.0 | 4822.8 | 4658.5 | 3237.6 |
| 45° | 4004.7 | 4012.3 | 4044.5 | 4005.6 | 3951.0 | 4106.4 | 4189.6 | 4860.4 | 5239.8 | 5080.3 | 3495.1 |
| 47.5° | 4183.8 | 4191.9 | 4225.0 | 4199.0 | 4170.4 | 4404.5 | 4459.2 | 5131.3 | 5639.1 | 5543.8 | 3770.1 |
| 50° | 4405.0 | 4410.4 | 4441.7 | 4394.8 | 4403.7 | 4629.4 | 4700.1 | 5379.9 | 6057.9 | 5960.2 | 4045.9 |
| 52.5° | 4706.8 | 4708.2 | 4751.6 | 4709.1 | 4667.0 | 4794.2 | 4907.5 | 5614.1 | 6386.1 | 6340.0 | 4321.7 |
| 55° | 4943.3 | 4957.6 | 5100.0 | 5091.1 | 5066.9 | 4943.7 | 5080.8 | 5837.1 | 6678.9 | 6700.9 | 4614.6 |
| 57.5° | 4792.3 | 4848.3 | 5136.7 | 5340.0 | 5538.0 | 5315.9 | 5314.9 | 6088.3 | 6951.2 | 7055.1 | 4936.6 |
| 60° | 4197.3 | 4273.4 | 4698.4 | 5149.3 | 5768.6 | 5963.4 | 5801.3 | 6395.1 | 7226.2 | 7406.2 | 5340.0 |
| 62.5° | 2997.6 | 3123.0 | 3698.8 | 4418.9 | 5452.4 | 6392.4 | 6790.9 | 6881.8 | 7600.1 | 7812.8 | 5864.4 |
| 65° | 1515.3 | 1610.3 | 2093.0 | 2960.5 | 4356.2 | 6112.1 | 7866.5 | 7947.6 | 8249.9 | 8438.8 | 6671.8 |
| 67.5° | 920.6 | 956.5 | 1192.0 | 1646.6 | 2670.7 | 4761.0 | 8217.6 | 9724.1 | 9507.3 | 9607.6 | 7823.1 |
| 70° | 678.4 | 704.8 | 851.7 | 1093.5 | 1535.9 | 2793.8 | 7140.2 | 10991.7 | 10849.4 | 10838.2 | 8673.9 |
| 72° | 528.4 | 547.7 | 677.5 | 883.5 | 1123.1 | 1676.1 | 5175.2 | 10523.8 | 11233.5 | 11177.2 | 8596.0 |
| 72.5° | 501.1 | 518.1 | 636.3 | 831.6 | 1061.3 | 1519.4 | 4653.1 | 10208.1 | 11205.8 | 11180.2 | 8495.2 |
| 75° | 394.5 | 406.6 | 471.1 | 643.0 | 830.7 | 862.1 | 2549.7 | 7910.9 | 9940.7 | 10354.1 | 7640.8 |
| 77.5° | 326.4 | 328.3 | 362.3 | 467.9 | 647.5 | 609.4 | 1252.5 | 5488.7 | 7118.2 | 7572.7 | 5412.6 |
| 80° | 266.0 | 268.2 | 284.3 | 328.3 | 489.9 | 451.0 | 594.7 | 3156.1 | 3985.4 | 3990.4 | 2574.0 |
| 82.5° | 211.8 | 212.3 | 230.2 | 240.1 | 351.9 | 322.4 | 340.8 | 1481.8 | 1741.5 | 1675.2 | 925.1 |
| 85° | 149.1 | 146.0 | 224.8 | 197.0 | 230.2 | 206.9 | 188.1 | 586.6 | 720.1 | 688.7 | 289.7 |
| 87.5° | 49.7 | 51.5 | 99.9 | 127.6 | 134.3 | 117.3 | 83.7 | 224.8 | 271.8 | 269.6 | 91.8 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1600.0 | 1600.0 | 1600.0 | 1600.0 | 1600.0 | 1600.0 | 1600.0 | 1600.0 | 1600.0 | 1600.0 | 1600.0 |
| 2.5° | 1608.0 | 1593.7 | 1572.6 | 1549.3 | 1531.0 | 1512.2 | 1498.3 | 1491.2 | 1483.1 | 1476.4 | 1484.4 |
| 5° | 1625.1 | 1598.2 | 1553.4 | 1509.6 | 1477.3 | 1448.6 | 1428.1 | 1417.3 | 1407.5 | 1400.8 | 1401.6 |
| 7.5° | 1652.8 | 1609.4 | 1534.2 | 1470.2 | 1425.4 | 1394.4 | 1373.4 | 1366.2 | 1360.0 | 1358.2 | 1360.4 |
| 10° | 1682.4 | 1618.4 | 1508.6 | 1423.6 | 1372.5 | 1347.0 | 1337.6 | 1342.5 | 1347.0 | 1351.0 | 1355.5 |
| 12.5° | 1716.0 | 1626.4 | 1471.5 | 1368.9 | 1325.5 | 1315.6 | 1325.0 | 1346.6 | 1362.2 | 1371.6 | 1377.5 |
| 15° | 1759.9 | 1633.6 | 1428.5 | 1314.3 | 1285.2 | 1296.3 | 1328.2 | 1365.4 | 1392.7 | 1410.1 | 1412.8 |
| 17.5° | 1800.1 | 1633.1 | 1373.4 | 1259.2 | 1252.5 | 1285.2 | 1333.1 | 1385.5 | 1422.2 | 1446.9 | 1451.8 |
| 20° | 1841.8 | 1621.1 | 1309.4 | 1205.5 | 1219.4 | 1273.1 | 1335.4 | 1398.4 | 1442.8 | 1471.5 | 1478.2 |
| 22.5° | 1880.8 | 1600.0 | 1239.1 | 1156.7 | 1191.6 | 1256.9 | 1326.8 | 1390.9 | 1435.2 | 1458.5 | 1465.7 |
| 25° | 1907.2 | 1563.2 | 1167.9 | 1115.4 | 1166.9 | 1237.3 | 1299.0 | 1350.6 | 1383.7 | 1395.4 | 1397.1 |
| 27.5° | 1920.7 | 1515.3 | 1100.7 | 1079.7 | 1141.4 | 1205.0 | 1247.6 | 1273.1 | 1282.5 | 1281.6 | 1279.9 |
| 30° | 1922.4 | 1452.2 | 1043.0 | 1050.5 | 1111.9 | 1157.5 | 1177.8 | 1172.8 | 1160.7 | 1140.1 | 1141.9 |
| 32.5° | 1916.6 | 1381.0 | 994.6 | 1022.7 | 1074.3 | 1099.8 | 1100.7 | 1077.0 | 1044.7 | 1012.0 | 1003.1 |
| 35° | 1918.4 | 1311.2 | 952.0 | 991.4 | 1028.6 | 1039.8 | 1029.5 | 994.6 | 950.6 | 908.6 | 899.6 |
| 37.5° | 1938.1 | 1250.2 | 915.3 | 955.1 | 978.0 | 980.6 | 965.9 | 929.2 | 897.0 | 855.7 | 852.2 |
| 40° | 1985.1 | 1206.8 | 880.4 | 914.4 | 927.4 | 928.8 | 907.7 | 881.7 | 884.4 | 862.4 | 862.1 |
| 42.5° | 2069.7 | 1188.0 | 849.5 | 871.8 | 879.9 | 882.6 | 866.5 | 849.9 | 873.2 | 858.9 | 853.9 |
| 45° | 2179.0 | 1192.5 | 823.5 | 830.2 | 845.0 | 857.6 | 847.7 | 827.5 | 836.5 | 774.2 | 753.6 |
| 47.5° | 2305.3 | 1221.2 | 802.9 | 794.4 | 819.9 | 843.7 | 828.4 | 798.0 | 766.2 | 704.4 | 692.8 |
| 50° | 2453.0 | 1265.5 | 784.1 | 759.0 | 792.7 | 824.9 | 809.6 | 766.2 | 718.3 | 688.2 | 684.2 |
| 52.5° | 2607.1 | 1319.6 | 765.3 | 720.1 | 758.1 | 810.5 | 802.9 | 759.0 | 699.9 | 670.3 | 665.0 |
| 55° | 2781.8 | 1374.3 | 741.6 | 674.8 | 720.9 | 803.8 | 799.7 | 733.0 | 686.0 | 669.5 | 665.4 |
| 57.5° | 2998.9 | 1436.5 | 710.2 | 627.9 | 686.0 | 779.6 | 767.1 | 717.4 | 671.7 | 659.2 | 657.9 |
| 60° | 3281.9 | 1528.4 | 665.0 | 577.7 | 643.5 | 742.4 | 739.7 | 694.6 | 648.8 | 639.9 | 638.1 |
| 62.5° | 3706.4 | 1680.1 | 602.7 | 527.5 | 596.0 | 679.3 | 704.0 | 663.6 | 624.7 | 624.2 | 625.2 |
| 65° | 4364.8 | 1908.6 | 535.1 | 483.7 | 548.1 | 626.0 | 662.3 | 631.9 | 600.0 | 609.0 | 610.3 |
| 67.5° | 5127.8 | 2097.9 | 468.8 | 440.6 | 499.3 | 575.4 | 624.7 | 600.0 | 567.4 | 590.7 | 591.1 |
| 70° | 5381.6 | 1928.7 | 410.6 | 398.1 | 448.7 | 526.6 | 583.9 | 565.2 | 532.0 | 555.3 | 553.1 |
| 72° | 5008.2 | 1557.0 | 373.0 | 365.8 | 410.6 | 486.3 | 547.7 | 532.5 | 499.8 | 515.4 | 509.6 |
| 72.5° | 4890.4 | 1484.4 | 363.6 | 357.8 | 400.4 | 476.0 | 538.2 | 524.4 | 491.7 | 505.1 | 499.8 |
| 75° | 4362.5 | 1289.3 | 312.5 | 313.9 | 349.3 | 425.9 | 485.4 | 481.0 | 447.3 | 448.7 | 446.9 |
| 77.5° | 3164.2 | 945.3 | 263.3 | 272.3 | 297.3 | 374.4 | 432.1 | 429.4 | 392.7 | 386.0 | 384.6 |
| 80° | 1468.3 | 482.3 | 214.5 | 218.5 | 244.5 | 313.0 | 368.5 | 365.0 | 335.4 | 326.9 | 321.9 |
| 82.5° | 502.8 | 229.3 | 161.3 | 163.9 | 189.4 | 252.1 | 319.7 | 317.5 | 292.9 | 276.3 | 266.0 |
| 85° | 179.6 | 114.2 | 112.8 | 110.2 | 135.3 | 198.4 | 278.5 | 266.4 | 230.2 | 196.1 | 195.3 |
| 87.5° | 58.2 | 48.8 | 58.2 | 57.8 | 78.8 | 134.3 | 202.4 | 172.4 | 167.0 | 138.8 | 136.1 |
| 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)