

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: P451397

Luminaire Tested: **GALN-SA2B-730-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451397
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10481 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

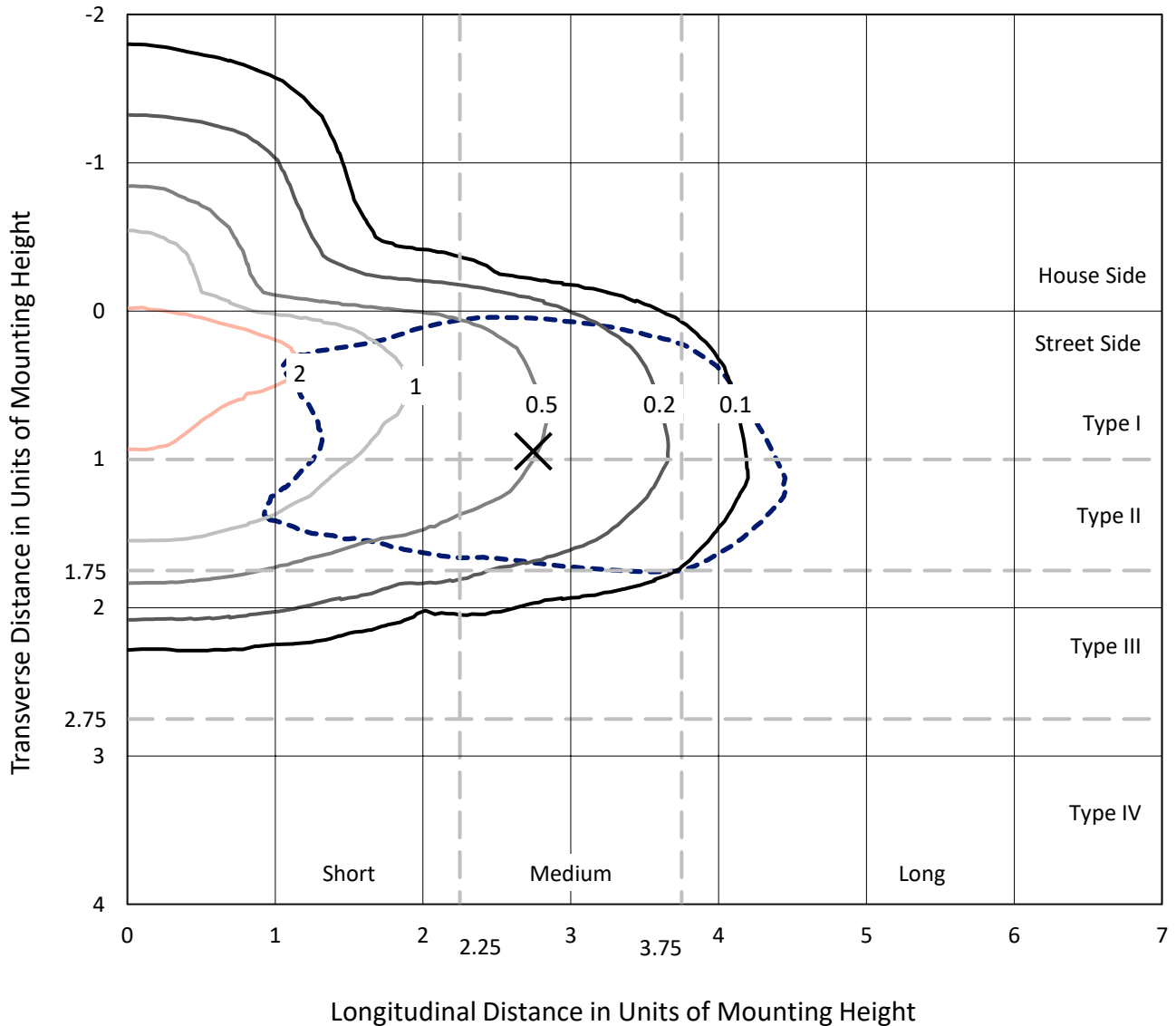
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

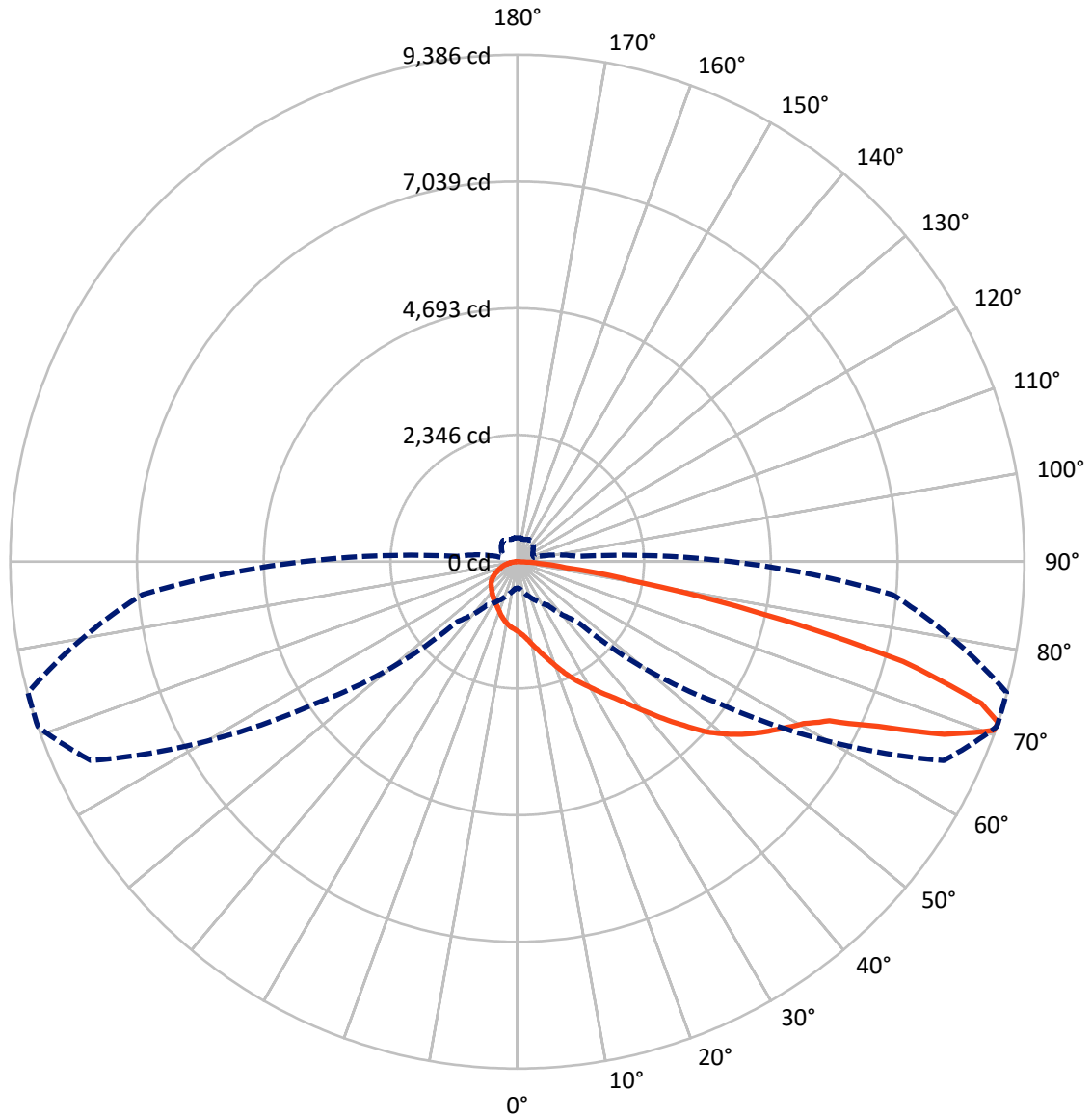
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1885.0 | 0.0 | 1885.0 |
| | % Fixture | 18.0 | 0.0 | 18.0 |
| Street Side | Lumens | 8596.0 | 0.0 | 8596.0 |
| | % Fixture | 82.0 | 0.0 | 82.0 |
| Total | Lumens | 10481.0 | 0.0 | 10481.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 129.2 | 1.2 |
| 10°-20° | 419.6 | 4.0 |
| 20°-30° | 733.3 | 7.0 |
| 30°-40° | 1090.7 | 10.4 |
| 40°-50° | 1607.0 | 15.3 |
| 50°-60° | 2249.9 | 21.5 |
| 60°-70° | 2516.4 | 24.0 |
| 70°-80° | 1537.1 | 14.7 |
| 80°-90° | 197.7 | 1.9 |
| 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° | 10481.0 | 100.0 |
| 0°-180° | 10481.0 | 100.0 |

Coefficient of Utilization



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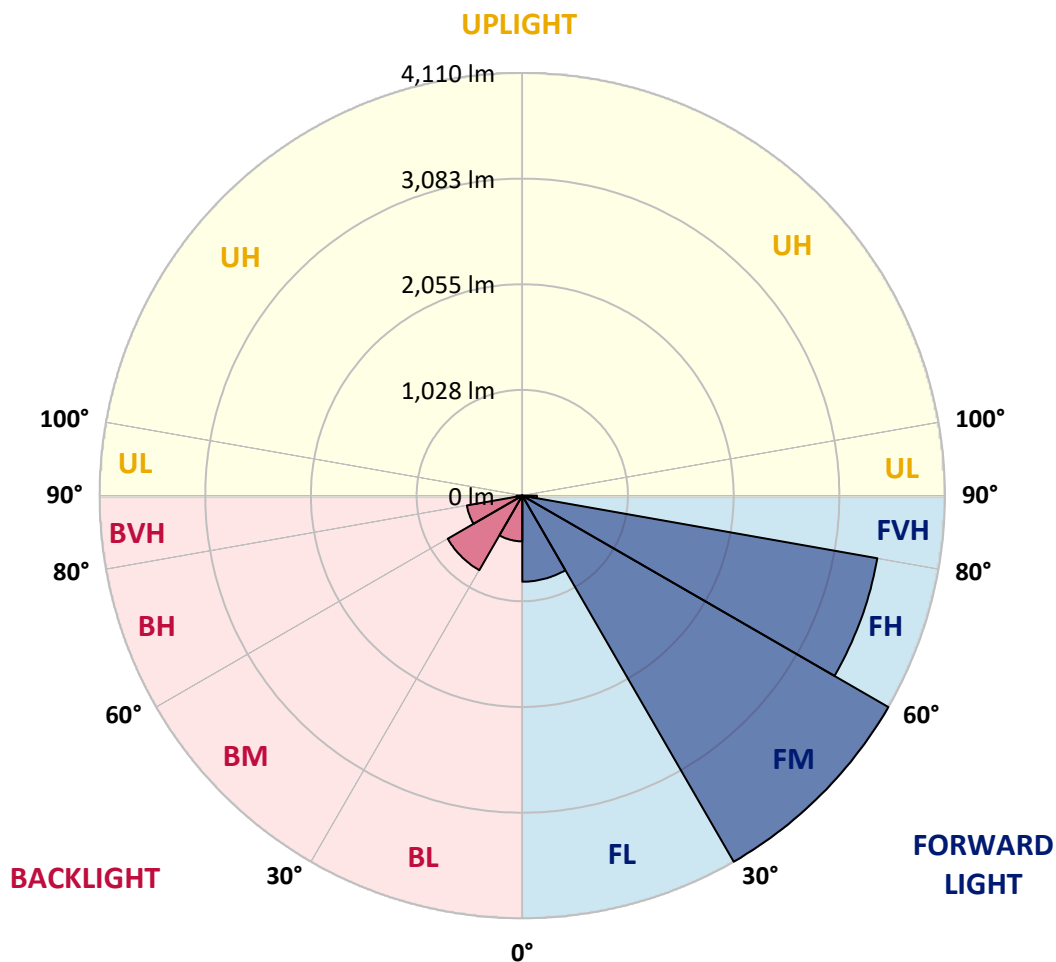
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 837.4 | 8.0 | | | |
| FM | (30°-60°) | 4110.4 | 39.2 | | | |
| FH | (60°-80°) | 3505.9 | 33.4 | | | G2/5000 |
| FVH | (80°-90°) | 142.3 | 1.4 | | | G2/225 |
| BL | (0°-30°) | 444.7 | 4.2 | B1/500 | | |
| BM | (30°-60°) | 837.2 | 8.0 | B1/1000 | | |
| BH | (60°-80°) | 547.7 | 5.2 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 55.5 | 0.5 | | | 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 II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 71° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1286.3 | 1286.3 | 1286.3 | 1286.3 | 1286.3 | 1286.3 | 1286.3 | 1286.3 | 1286.3 | 1286.3 | 1286.3 |
| 2.5° | 1428.0 | 1421.1 | 1421.7 | 1411.9 | 1399.2 | 1385.4 | 1365.8 | 1348.6 | 1334.7 | 1326.7 | 1303.0 |
| 5° | 1582.4 | 1575.5 | 1566.9 | 1545.6 | 1536.3 | 1502.4 | 1459.2 | 1420.0 | 1390.0 | 1373.3 | 1326.1 |
| 7.5° | 1707.4 | 1705.7 | 1703.4 | 1691.3 | 1667.7 | 1620.4 | 1583.6 | 1515.6 | 1471.3 | 1439.6 | 1358.9 |
| 10° | 1784.6 | 1787.5 | 1789.2 | 1791.5 | 1781.7 | 1757.0 | 1706.3 | 1620.4 | 1564.0 | 1523.7 | 1401.5 |
| 12.5° | 1823.8 | 1826.7 | 1836.5 | 1857.8 | 1871.0 | 1868.2 | 1826.7 | 1742.6 | 1664.8 | 1611.8 | 1447.1 |
| 15° | 1848.0 | 1852.6 | 1869.9 | 1898.1 | 1942.5 | 1970.7 | 1950.5 | 1872.8 | 1787.5 | 1724.7 | 1501.2 |
| 17.5° | 1874.5 | 1879.7 | 1898.7 | 1939.0 | 1997.2 | 2058.3 | 2080.1 | 2013.3 | 1920.6 | 1845.7 | 1561.7 |
| 20° | 1889.5 | 1896.4 | 1923.5 | 1976.5 | 2044.4 | 2133.1 | 2205.7 | 2170.6 | 2069.2 | 1986.2 | 1631.4 |
| 22.5° | 1913.7 | 1919.4 | 1942.5 | 1998.9 | 2080.1 | 2191.3 | 2331.3 | 2323.8 | 2234.5 | 2127.4 | 1708.0 |
| 25° | 1979.3 | 1988.5 | 2000.1 | 2034.1 | 2112.4 | 2250.7 | 2435.6 | 2487.4 | 2394.7 | 2274.9 | 1778.3 |
| 27.5° | 2103.2 | 2110.7 | 2110.1 | 2114.7 | 2159.1 | 2301.9 | 2526.0 | 2649.3 | 2553.7 | 2424.0 | 1846.3 |
| 30° | 2244.3 | 2247.2 | 2249.5 | 2239.1 | 2248.9 | 2354.3 | 2609.0 | 2809.4 | 2713.8 | 2577.3 | 1905.6 |
| 32.5° | 2416.0 | 2421.7 | 2402.2 | 2375.7 | 2367.6 | 2432.1 | 2677.5 | 2969.6 | 2903.3 | 2732.8 | 1964.4 |
| 35° | 2618.8 | 2633.7 | 2594.0 | 2547.3 | 2514.5 | 2543.9 | 2769.7 | 3133.2 | 3097.5 | 2931.6 | 2042.1 |
| 37.5° | 2850.3 | 2868.8 | 2831.9 | 2740.3 | 2693.6 | 2701.7 | 2890.1 | 3335.4 | 3342.9 | 3157.9 | 2157.9 |
| 40° | 3039.9 | 3064.0 | 3065.2 | 2935.6 | 2864.7 | 2874.0 | 3042.7 | 3553.1 | 3639.0 | 3437.9 | 2294.4 |
| 42.5° | 3164.9 | 3188.5 | 3213.2 | 3137.2 | 3062.9 | 3115.3 | 3220.7 | 3789.3 | 3971.9 | 3777.8 | 2485.1 |
| 45° | 3302.0 | 3323.3 | 3337.1 | 3302.5 | 3261.1 | 3397.0 | 3435.6 | 4040.5 | 4326.8 | 4157.4 | 2693.6 |
| 47.5° | 3461.0 | 3484.6 | 3497.8 | 3465.0 | 3449.4 | 3644.1 | 3667.2 | 4274.9 | 4705.8 | 4526.1 | 2924.1 |
| 50° | 3672.9 | 3690.8 | 3683.9 | 3663.1 | 3659.7 | 3833.7 | 3889.5 | 4494.4 | 5018.6 | 4923.0 | 3163.1 |
| 52.5° | 3936.8 | 3958.1 | 3965.6 | 3936.2 | 3923.0 | 3969.0 | 4068.7 | 4694.3 | 5303.2 | 5264.0 | 3418.3 |
| 55° | 4096.3 | 4130.3 | 4244.4 | 4290.5 | 4322.2 | 4144.2 | 4261.7 | 4914.9 | 5558.4 | 5623.5 | 3692.5 |
| 57.5° | 3891.8 | 3935.6 | 4190.8 | 4421.2 | 4719.1 | 4582.0 | 4535.3 | 5145.3 | 5813.6 | 5972.0 | 4020.9 |
| 60° | 3393.0 | 3402.8 | 3731.7 | 4156.3 | 4755.4 | 5144.8 | 5106.2 | 5511.7 | 6090.1 | 6323.4 | 4453.5 |
| 62.5° | 2353.8 | 2374.5 | 2763.3 | 3440.8 | 4307.2 | 5347.5 | 6077.4 | 6144.2 | 6486.4 | 6849.3 | 5087.7 |
| 65° | 1213.8 | 1186.7 | 1541.0 | 2162.5 | 3247.2 | 4866.0 | 6864.3 | 7307.3 | 7345.9 | 7671.9 | 5980.6 |
| 67.5° | 747.1 | 759.2 | 925.1 | 1262.7 | 1920.0 | 3536.4 | 6781.9 | 8728.4 | 8525.1 | 8681.8 | 6809.6 |
| 70° | 561.1 | 576.1 | 690.1 | 864.1 | 1170.5 | 2022.0 | 5454.1 | 9072.9 | 9356.9 | 9316.6 | 7061.9 |
| 71° | 487.9 | 503.5 | 622.1 | 786.3 | 983.3 | 1560.5 | 4595.2 | 8712.3 | 9385.7 | 9378.8 | 6966.8 |
| 72.5° | 415.9 | 425.7 | 518.5 | 665.9 | 828.9 | 1093.9 | 3452.3 | 7813.6 | 8985.3 | 9215.2 | 6627.5 |
| 75° | 326.6 | 334.1 | 375.6 | 508.1 | 652.7 | 671.7 | 1852.6 | 5857.9 | 7379.9 | 7817.7 | 5517.5 |
| 77.5° | 266.1 | 271.3 | 292.6 | 377.3 | 503.5 | 475.8 | 971.8 | 3812.9 | 4623.4 | 5064.1 | 3250.1 |
| 80° | 211.4 | 217.2 | 229.8 | 255.8 | 377.3 | 339.3 | 463.7 | 1932.1 | 2233.4 | 2228.8 | 1297.3 |
| 82.5° | 164.2 | 165.9 | 180.9 | 187.8 | 258.1 | 240.8 | 251.2 | 818.0 | 906.1 | 936.1 | 468.3 |
| 85° | 103.7 | 108.9 | 160.1 | 144.0 | 154.4 | 141.1 | 123.9 | 324.9 | 400.4 | 394.6 | 187.2 |
| 87.5° | 31.7 | 33.4 | 54.1 | 61.1 | 68.6 | 61.6 | 45.5 | 95.6 | 116.9 | 126.7 | 46.7 |
| 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° | 1286.3 | 1286.3 | 1286.3 | 1286.3 | 1286.3 | 1286.3 | 1286.3 | 1286.3 | 1286.3 | 1286.3 | 1286.3 |
| 2.5° | 1293.8 | 1287.5 | 1265.0 | 1246.6 | 1229.3 | 1210.3 | 1194.2 | 1189.6 | 1185.5 | 1183.8 | 1183.2 |
| 5° | 1305.9 | 1286.9 | 1242.6 | 1206.3 | 1177.5 | 1151.0 | 1134.3 | 1126.8 | 1119.3 | 1119.3 | 1121.6 |
| 7.5° | 1323.2 | 1288.6 | 1220.1 | 1165.9 | 1129.6 | 1104.9 | 1092.8 | 1091.6 | 1093.4 | 1095.1 | 1095.7 |
| 10° | 1342.2 | 1287.5 | 1187.3 | 1119.9 | 1087.6 | 1076.1 | 1076.7 | 1086.4 | 1095.7 | 1102.6 | 1103.7 |
| 12.5° | 1360.6 | 1280.6 | 1148.7 | 1076.7 | 1055.9 | 1058.2 | 1074.3 | 1096.2 | 1114.1 | 1123.9 | 1124.5 |
| 15° | 1381.4 | 1269.6 | 1102.0 | 1035.8 | 1028.8 | 1046.7 | 1076.7 | 1110.1 | 1137.1 | 1153.3 | 1155.0 |
| 17.5° | 1398.7 | 1251.2 | 1053.0 | 996.0 | 1004.6 | 1037.5 | 1079.0 | 1122.2 | 1155.0 | 1175.2 | 1178.6 |
| 20° | 1418.3 | 1227.6 | 1002.3 | 958.0 | 982.8 | 1027.1 | 1074.3 | 1121.0 | 1155.0 | 1174.6 | 1179.2 |
| 22.5° | 1433.8 | 1194.2 | 954.0 | 926.9 | 963.2 | 1014.4 | 1058.8 | 1096.2 | 1123.9 | 1134.3 | 1141.2 |
| 25° | 1440.1 | 1152.1 | 908.4 | 901.5 | 947.6 | 993.7 | 1023.7 | 1045.0 | 1053.6 | 1052.5 | 1055.3 |
| 27.5° | 1436.7 | 1103.7 | 869.3 | 881.4 | 928.0 | 961.4 | 976.4 | 974.7 | 959.1 | 944.7 | 951.6 |
| 30° | 1422.3 | 1046.1 | 836.4 | 860.6 | 902.7 | 921.1 | 918.8 | 896.3 | 867.0 | 839.9 | 841.6 |
| 32.5° | 1396.4 | 983.9 | 805.9 | 837.0 | 867.0 | 875.0 | 859.5 | 830.1 | 788.0 | 752.9 | 747.7 |
| 35° | 1374.5 | 924.6 | 778.8 | 809.9 | 831.3 | 827.2 | 812.2 | 774.2 | 736.2 | 705.1 | 699.9 |
| 37.5° | 1371.0 | 873.9 | 752.9 | 779.4 | 791.5 | 785.7 | 767.3 | 735.0 | 721.2 | 697.6 | 694.7 |
| 40° | 1389.5 | 838.2 | 726.4 | 747.1 | 752.9 | 748.3 | 728.1 | 709.7 | 722.4 | 716.6 | 716.6 |
| 42.5° | 1439.6 | 819.2 | 702.8 | 714.9 | 719.5 | 723.0 | 708.6 | 693.0 | 708.6 | 682.1 | 673.4 |
| 45° | 1519.1 | 819.7 | 681.5 | 683.2 | 697.0 | 709.1 | 699.3 | 676.3 | 668.2 | 615.2 | 604.9 |
| 47.5° | 1636.0 | 839.3 | 664.2 | 653.2 | 678.0 | 698.2 | 684.4 | 650.9 | 615.2 | 580.1 | 573.8 |
| 50° | 1772.5 | 874.5 | 648.6 | 622.1 | 652.7 | 684.4 | 674.0 | 634.8 | 597.9 | 576.6 | 572.6 |
| 52.5° | 1924.0 | 918.8 | 629.6 | 587.6 | 621.6 | 678.0 | 676.3 | 632.5 | 581.8 | 567.4 | 564.0 |
| 55° | 2111.3 | 962.6 | 606.0 | 547.3 | 593.9 | 672.8 | 670.0 | 613.5 | 578.4 | 568.0 | 566.8 |
| 57.5° | 2329.0 | 1026.0 | 572.0 | 506.4 | 562.2 | 651.5 | 645.2 | 602.0 | 566.8 | 559.4 | 558.8 |
| 60° | 2679.8 | 1124.5 | 523.6 | 468.9 | 530.0 | 614.1 | 622.1 | 582.4 | 548.4 | 546.7 | 546.1 |
| 62.5° | 3141.2 | 1262.7 | 473.5 | 430.3 | 492.5 | 565.7 | 588.7 | 555.9 | 528.8 | 537.5 | 538.6 |
| 65° | 3778.4 | 1379.1 | 421.7 | 397.5 | 451.1 | 519.0 | 557.0 | 531.1 | 506.9 | 523.6 | 523.6 |
| 67.5° | 4193.7 | 1381.4 | 374.4 | 363.5 | 409.0 | 479.9 | 523.6 | 501.7 | 478.7 | 506.9 | 508.1 |
| 70° | 4107.3 | 1210.3 | 335.3 | 327.8 | 368.1 | 437.8 | 486.8 | 469.5 | 443.0 | 468.3 | 459.1 |
| 71° | 3967.9 | 1115.2 | 319.7 | 314.0 | 352.0 | 417.6 | 469.5 | 455.1 | 428.6 | 445.3 | 440.1 |
| 72.5° | 3745.5 | 968.4 | 294.4 | 295.5 | 327.8 | 392.3 | 445.3 | 430.3 | 403.8 | 413.0 | 411.3 |
| 75° | 3166.0 | 845.7 | 251.7 | 256.9 | 281.7 | 349.1 | 396.9 | 385.4 | 358.3 | 358.3 | 356.6 |
| 77.5° | 1979.3 | 591.0 | 209.1 | 212.0 | 239.1 | 299.0 | 341.0 | 331.2 | 305.3 | 296.7 | 294.4 |
| 80° | 738.5 | 305.3 | 163.6 | 167.1 | 183.8 | 235.6 | 282.3 | 273.1 | 246.6 | 236.8 | 227.5 |
| 82.5° | 279.4 | 153.2 | 120.4 | 117.5 | 135.4 | 179.7 | 221.2 | 210.3 | 189.5 | 165.9 | 159.0 |
| 85° | 105.4 | 76.0 | 73.7 | 71.4 | 79.5 | 106.6 | 137.1 | 134.8 | 112.9 | 96.2 | 94.5 |
| 87.5° | 27.7 | 24.8 | 28.8 | 21.3 | 22.5 | 20.2 | 20.7 | 8.6 | 4.0 | 1.7 | 1.2 |
| 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)