

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: P452327

Luminaire Tested: **GALN-SA3B-730-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15766 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

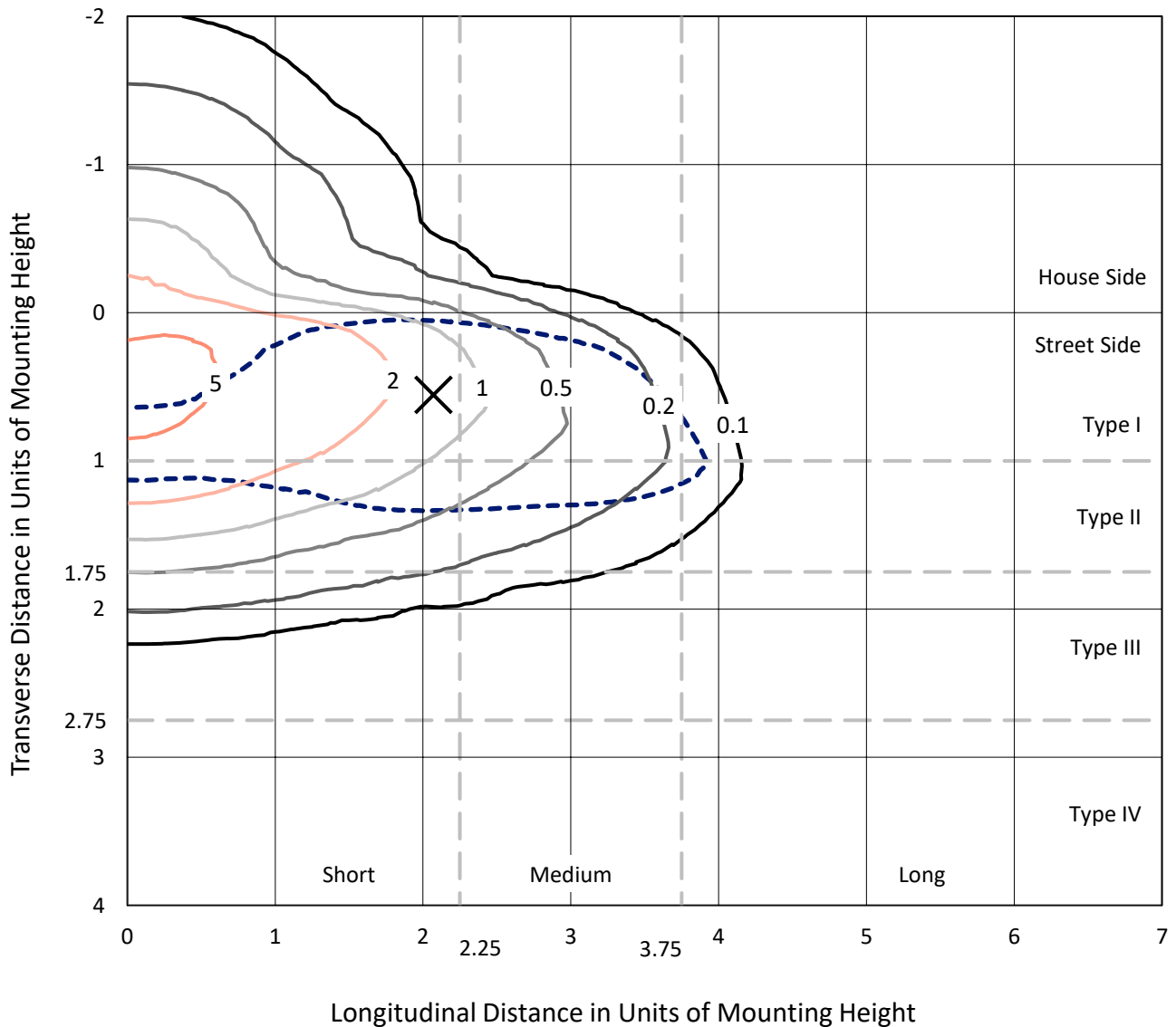
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

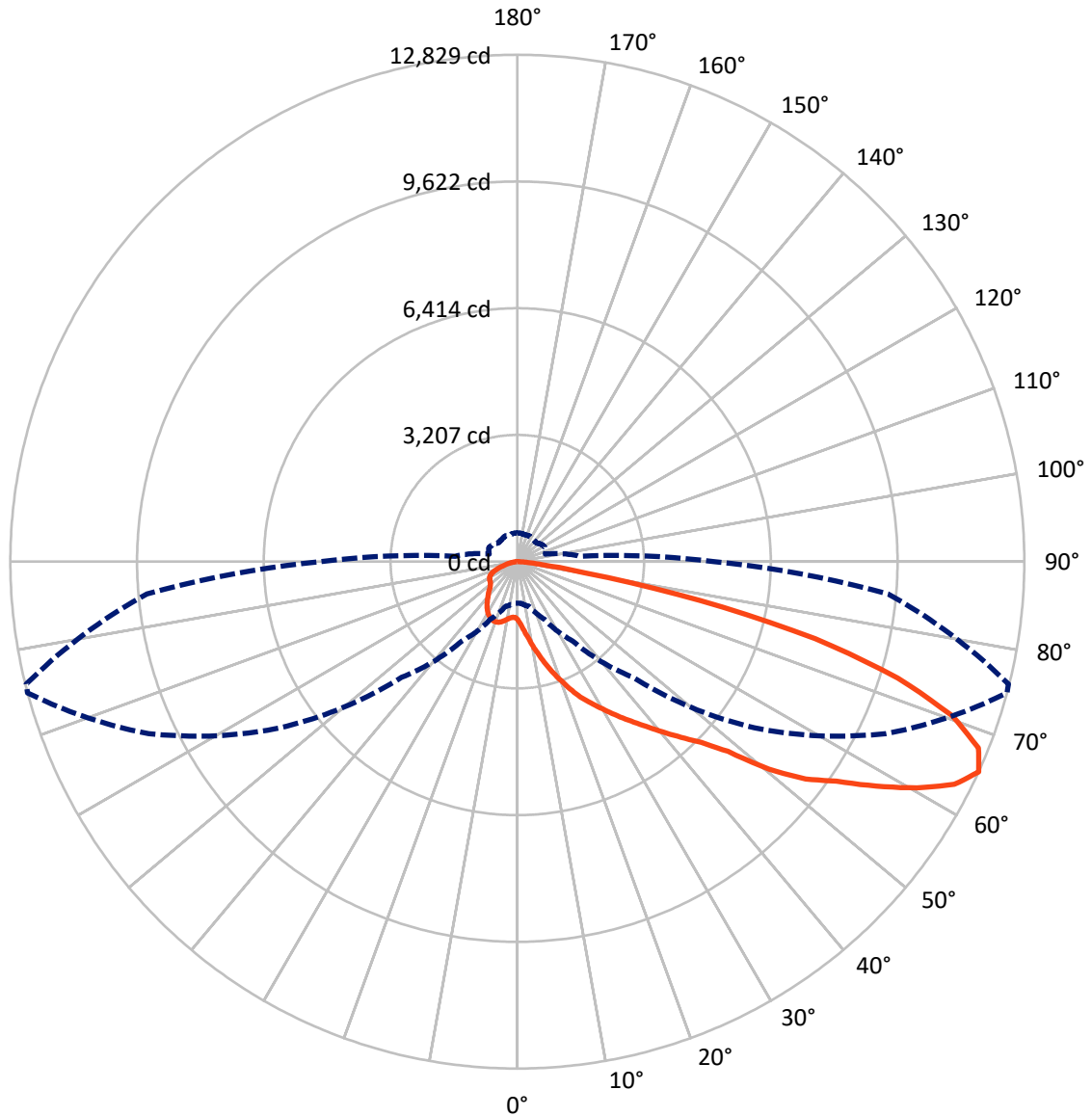
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2650.5 | 0.0 | 2650.5 |
| | % Fixture | 16.8 | 0.0 | 16.8 |
| Street Side | Lumens | 13115.5 | 0.0 | 13115.5 |
| | % Fixture | 83.2 | 0.0 | 83.2 |
| Total | Lumens | 15766.0 | 0.0 | 15766.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 178.0 | 1.1 |
| 10°-20° | 697.1 | 4.4 |
| 20°-30° | 1346.6 | 8.5 |
| 30°-40° | 2187.3 | 13.9 |
| 40°-50° | 3008.8 | 19.1 |
| 50°-60° | 3552.3 | 22.5 |
| 60°-70° | 3112.4 | 19.7 |
| 70°-80° | 1485.9 | 9.4 |
| 80°-90° | 197.7 | 1.3 |
| 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° | 15766.0 | 100.0 |
| 0°-180° | 15766.0 | 100.0 |



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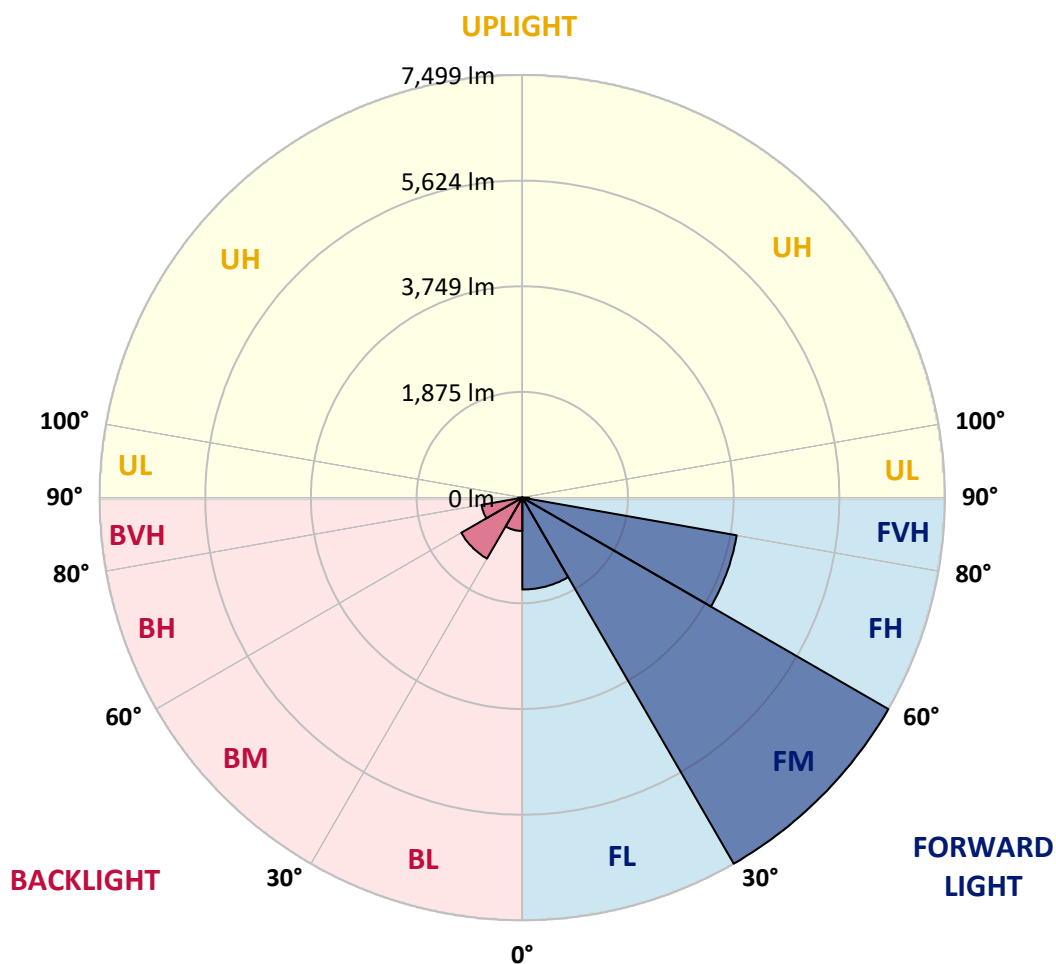
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1630.0 | 10.3 | | | |
| FM | (30°-60°) | 7498.6 | 47.6 | | | |
| FH | (60°-80°) | 3863.4 | 24.5 | | | G2/5000 |
| FVH | (80°-90°) | 123.6 | 0.8 | | | G2/225 |
| BL | (0°-30°) | 591.7 | 3.8 | B2/1000 | | |
| BM | (30°-60°) | 1249.7 | 7.9 | B2/2500 | | |
| BH | (60°-80°) | 734.9 | 4.7 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 74.2 | 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 Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|--------|
| 0° | 1464.9 | 1464.9 | 1464.9 | 1464.9 | 1464.9 | 1464.9 | 1464.9 | 1464.9 | 1464.9 | 1464.9 | 1464.9 |
| 2.5° | 1946.3 | 1933.5 | 1919.8 | 1882.2 | 1842.0 | 1796.7 | 1731.7 | 1669.2 | 1586.3 | 1583.7 | 1522.2 |
| 5° | 2485.9 | 2477.4 | 2416.6 | 2381.6 | 2288.4 | 2164.4 | 2059.2 | 1895.9 | 1744.5 | 1726.5 | 1606.8 |
| 7.5° | 2981.9 | 2948.5 | 2925.4 | 2862.2 | 2769.8 | 2610.8 | 2407.2 | 2186.6 | 1933.5 | 1909.5 | 1711.1 |
| 10° | 3355.6 | 3352.2 | 3340.2 | 3285.5 | 3216.2 | 3058.0 | 2832.2 | 2515.8 | 2172.9 | 2125.9 | 1837.7 |
| 12.5° | 3635.2 | 3637.8 | 3636.1 | 3635.2 | 3585.6 | 3451.4 | 3206.8 | 2873.3 | 2414.9 | 2381.6 | 1983.9 |
| 15° | 3819.1 | 3844.7 | 3855.0 | 3897.7 | 3902.0 | 3812.2 | 3601.9 | 3218.8 | 2687.7 | 2638.1 | 2141.3 |
| 17.5° | 3940.5 | 3953.3 | 4001.2 | 4073.9 | 4132.9 | 4116.7 | 3929.4 | 3538.6 | 2966.5 | 2883.5 | 2304.6 |
| 20° | 4056.8 | 4079.0 | 4115.8 | 4215.0 | 4319.3 | 4367.2 | 4235.5 | 3866.1 | 3242.7 | 3189.7 | 2485.0 |
| 22.5° | 4298.8 | 4330.4 | 4343.3 | 4393.7 | 4482.7 | 4567.3 | 4507.5 | 4179.9 | 3545.4 | 3473.6 | 2676.6 |
| 25° | 4708.4 | 4741.8 | 4705.9 | 4693.9 | 4723.0 | 4764.9 | 4752.0 | 4475.8 | 3831.0 | 3728.4 | 2857.9 |
| 27.5° | 5242.0 | 5246.3 | 5176.2 | 5109.5 | 5037.6 | 5016.3 | 4976.9 | 4738.3 | 4079.0 | 3993.5 | 3040.0 |
| 30° | 5815.0 | 5794.5 | 5678.2 | 5557.6 | 5436.1 | 5316.4 | 5203.5 | 4991.5 | 4355.2 | 4256.9 | 3218.8 |
| 32.5° | 6346.9 | 6335.8 | 6206.6 | 6019.4 | 5814.1 | 5701.2 | 5472.9 | 5247.2 | 4651.1 | 4556.2 | 3402.6 |
| 35° | 6745.4 | 6761.6 | 6619.7 | 6415.3 | 6191.2 | 6091.2 | 5803.0 | 5515.7 | 4957.3 | 4853.8 | 3602.7 |
| 37.5° | 7028.4 | 7019.9 | 6894.2 | 6717.2 | 6520.5 | 6433.2 | 6188.7 | 5809.0 | 5286.5 | 5187.3 | 3821.6 |
| 40° | 7129.3 | 7124.2 | 7031.0 | 6901.9 | 6777.0 | 6746.2 | 6592.3 | 6125.4 | 5663.6 | 5547.3 | 4085.0 |
| 42.5° | 7065.2 | 7076.3 | 7014.7 | 6979.7 | 6956.6 | 6978.8 | 6993.4 | 6540.1 | 6074.9 | 5968.0 | 4370.6 |
| 45° | 6868.5 | 6862.5 | 6854.0 | 6911.3 | 7041.3 | 7187.5 | 7390.1 | 6931.8 | 6522.2 | 6436.7 | 4753.7 |
| 47.5° | 6517.0 | 6559.8 | 6581.2 | 6739.4 | 7023.3 | 7369.6 | 7846.8 | 7456.8 | 7171.2 | 7096.8 | 5337.8 |
| 50° | 6025.3 | 6059.5 | 6186.1 | 6467.4 | 6890.7 | 7438.0 | 8293.2 | 8315.4 | 8253.8 | 8114.5 | 5972.3 |
| 52.5° | 5257.4 | 5310.4 | 5571.3 | 6086.9 | 6618.8 | 7409.8 | 8563.4 | 9051.7 | 9132.9 | 9028.6 | 6597.4 |
| 55° | 4398.0 | 4472.4 | 4747.8 | 5424.2 | 6244.3 | 7255.9 | 8749.8 | 9478.4 | 9802.5 | 9705.9 | 7199.5 |
| 57.5° | 3556.5 | 3635.2 | 3918.3 | 4573.3 | 5590.9 | 6915.5 | 8872.1 | 9953.9 | 10714.1 | 10588.4 | 7948.6 |
| 60° | 2665.5 | 2747.6 | 2990.4 | 3665.1 | 4660.5 | 6250.2 | 8789.2 | 10366.0 | 11624.8 | 11570.9 | 8698.5 |
| 62.5° | 1719.7 | 1810.3 | 2021.6 | 2580.0 | 3582.2 | 5341.2 | 8345.3 | 10593.5 | 12413.3 | 12348.3 | 9245.8 |
| 65° | 1047.6 | 1057.8 | 1174.1 | 1601.7 | 2451.7 | 4135.5 | 7330.3 | 10291.6 | 12828.9 | 12809.2 | 9412.6 |
| 67.5° | 677.3 | 693.5 | 746.5 | 959.5 | 1470.0 | 2872.4 | 5861.2 | 9295.4 | 12586.0 | 12579.2 | 9067.9 |
| 70° | 572.1 | 577.2 | 601.2 | 647.3 | 854.3 | 1741.9 | 4115.8 | 7707.4 | 11663.3 | 11663.3 | 8239.3 |
| 72.5° | 511.4 | 518.2 | 526.8 | 541.3 | 609.7 | 986.8 | 2456.0 | 5999.7 | 10070.2 | 10136.9 | 7013.0 |
| 75° | 464.3 | 462.6 | 467.8 | 470.3 | 519.9 | 644.8 | 1269.9 | 4437.3 | 7790.4 | 7657.0 | 5078.7 |
| 77.5° | 397.6 | 400.2 | 397.6 | 408.8 | 459.2 | 490.9 | 644.8 | 2977.6 | 4721.2 | 4548.5 | 2549.2 |
| 80° | 326.7 | 330.9 | 335.2 | 342.1 | 392.5 | 372.8 | 387.4 | 1357.1 | 1746.2 | 1709.4 | 787.6 |
| 82.5° | 245.4 | 251.4 | 258.3 | 274.5 | 308.7 | 246.3 | 244.6 | 579.8 | 630.2 | 577.2 | 289.9 |
| 85° | 99.2 | 117.2 | 177.0 | 193.3 | 194.1 | 135.1 | 150.5 | 242.0 | 257.4 | 251.4 | 113.7 |
| 87.5° | 23.1 | 27.4 | 57.3 | 86.4 | 79.5 | 50.5 | 55.6 | 78.7 | 89.8 | 82.9 | 38.5 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1464.9 | 1464.9 | 1464.9 | 1464.9 | 1464.9 | 1464.9 | 1464.9 | 1464.9 | 1464.9 | 1464.9 | 1464.9 |
| 2.5° | 1493.9 | 1464.0 | 1412.7 | 1373.4 | 1345.1 | 1320.3 | 1304.9 | 1295.5 | 1292.1 | 1291.3 | 1292.1 |
| 5° | 1544.4 | 1491.4 | 1410.1 | 1358.8 | 1330.6 | 1314.4 | 1304.9 | 1304.1 | 1304.9 | 1305.8 | 1303.2 |
| 7.5° | 1613.7 | 1537.5 | 1431.5 | 1383.6 | 1362.2 | 1350.3 | 1346.0 | 1344.3 | 1345.1 | 1344.3 | 1344.3 |
| 10° | 1706.0 | 1601.7 | 1473.4 | 1423.8 | 1405.9 | 1392.2 | 1385.3 | 1381.1 | 1377.6 | 1374.2 | 1372.5 |
| 12.5° | 1807.8 | 1672.7 | 1518.7 | 1470.8 | 1445.2 | 1423.8 | 1408.4 | 1397.3 | 1389.6 | 1381.9 | 1380.2 |
| 15° | 1921.5 | 1747.9 | 1569.2 | 1502.5 | 1465.7 | 1434.1 | 1407.6 | 1389.6 | 1375.9 | 1364.8 | 1364.0 |
| 17.5° | 2030.1 | 1818.9 | 1603.4 | 1517.0 | 1463.2 | 1418.7 | 1383.6 | 1358.8 | 1341.7 | 1327.2 | 1325.5 |
| 20° | 2146.4 | 1886.4 | 1618.8 | 1507.6 | 1437.5 | 1383.6 | 1337.4 | 1307.5 | 1287.8 | 1271.6 | 1269.0 |
| 22.5° | 2263.6 | 1943.7 | 1617.1 | 1477.7 | 1393.0 | 1329.7 | 1281.0 | 1249.4 | 1226.3 | 1210.0 | 1204.0 |
| 25° | 2375.6 | 1989.9 | 1595.7 | 1429.8 | 1331.5 | 1265.6 | 1216.0 | 1186.9 | 1166.4 | 1146.7 | 1146.7 |
| 27.5° | 2476.5 | 2017.3 | 1555.5 | 1371.6 | 1268.2 | 1198.9 | 1159.6 | 1133.1 | 1114.3 | 1101.4 | 1093.7 |
| 30° | 2575.7 | 2030.1 | 1500.8 | 1298.1 | 1201.5 | 1142.5 | 1110.8 | 1095.4 | 1078.3 | 1063.8 | 1062.1 |
| 32.5° | 2664.6 | 2027.5 | 1432.4 | 1226.3 | 1138.2 | 1096.3 | 1083.5 | 1071.5 | 1053.5 | 1033.0 | 1027.9 |
| 35° | 2751.0 | 2010.4 | 1351.1 | 1147.6 | 1085.2 | 1068.9 | 1072.3 | 1055.2 | 1022.8 | 997.1 | 992.8 |
| 37.5° | 2845.1 | 1979.7 | 1262.2 | 1083.5 | 1040.7 | 1056.1 | 1064.7 | 1027.0 | 974.0 | 933.8 | 924.4 |
| 40° | 2953.7 | 1944.6 | 1169.8 | 1019.3 | 1005.6 | 1044.1 | 1044.1 | 974.9 | 902.2 | 877.4 | 870.5 |
| 42.5° | 3081.1 | 1915.5 | 1092.9 | 965.5 | 976.6 | 1015.1 | 1010.8 | 905.6 | 875.7 | 862.8 | 859.4 |
| 45° | 3282.9 | 1905.3 | 1013.3 | 918.4 | 952.6 | 980.8 | 945.8 | 881.7 | 864.5 | 854.3 | 850.9 |
| 47.5° | 3601.9 | 1917.2 | 943.2 | 883.4 | 925.3 | 946.6 | 873.1 | 865.4 | 853.4 | 838.9 | 837.2 |
| 50° | 3897.7 | 1906.1 | 893.6 | 863.7 | 901.3 | 905.6 | 843.2 | 845.7 | 838.9 | 822.6 | 819.2 |
| 52.5° | 4139.7 | 1871.1 | 862.0 | 853.4 | 880.8 | 833.8 | 815.0 | 824.4 | 821.8 | 801.3 | 797.8 |
| 55° | 4405.7 | 1849.7 | 846.6 | 853.4 | 867.1 | 771.3 | 788.4 | 802.1 | 798.7 | 784.2 | 783.3 |
| 57.5° | 4728.1 | 1854.0 | 835.5 | 856.0 | 853.4 | 739.7 | 761.9 | 778.2 | 777.3 | 773.0 | 773.0 |
| 60° | 5058.2 | 1855.7 | 818.4 | 855.1 | 837.2 | 714.9 | 734.6 | 757.7 | 759.4 | 761.9 | 761.9 |
| 62.5° | 5167.6 | 1781.3 | 785.0 | 839.8 | 801.3 | 691.0 | 708.9 | 740.6 | 738.8 | 745.7 | 746.5 |
| 65° | 4963.3 | 1575.2 | 735.4 | 804.7 | 755.1 | 673.9 | 689.2 | 718.3 | 708.9 | 726.9 | 730.3 |
| 67.5° | 4517.7 | 1303.2 | 658.5 | 741.4 | 703.8 | 655.9 | 676.4 | 687.5 | 670.4 | 705.5 | 706.3 |
| 70° | 3904.6 | 1017.6 | 561.0 | 651.6 | 645.6 | 637.1 | 666.2 | 649.1 | 625.1 | 667.9 | 659.3 |
| 72.5° | 3264.9 | 777.3 | 448.1 | 532.8 | 567.8 | 608.9 | 648.2 | 599.5 | 566.1 | 578.9 | 563.5 |
| 75° | 2452.6 | 574.7 | 360.0 | 417.3 | 472.9 | 568.7 | 632.0 | 539.6 | 488.3 | 476.3 | 472.9 |
| 77.5° | 1250.2 | 375.4 | 269.4 | 312.1 | 354.9 | 513.9 | 609.7 | 469.5 | 404.5 | 385.7 | 377.1 |
| 80° | 446.4 | 233.5 | 189.8 | 215.5 | 239.4 | 442.1 | 532.8 | 388.2 | 313.8 | 310.4 | 313.8 |
| 82.5° | 206.9 | 150.5 | 127.4 | 141.1 | 142.0 | 295.0 | 406.2 | 289.9 | 238.6 | 362.6 | 306.1 |
| 85° | 88.9 | 75.3 | 71.8 | 70.1 | 65.0 | 131.7 | 228.3 | 155.6 | 242.9 | 108.6 | 100.1 |
| 87.5° | 26.5 | 29.9 | 26.5 | 19.7 | 14.5 | 14.5 | 23.1 | 8.6 | 6.0 | 4.3 | 4.3 |
| 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)