

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: P319156

Luminaire Tested: **GLEON-SA2B-827-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2B-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8535 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

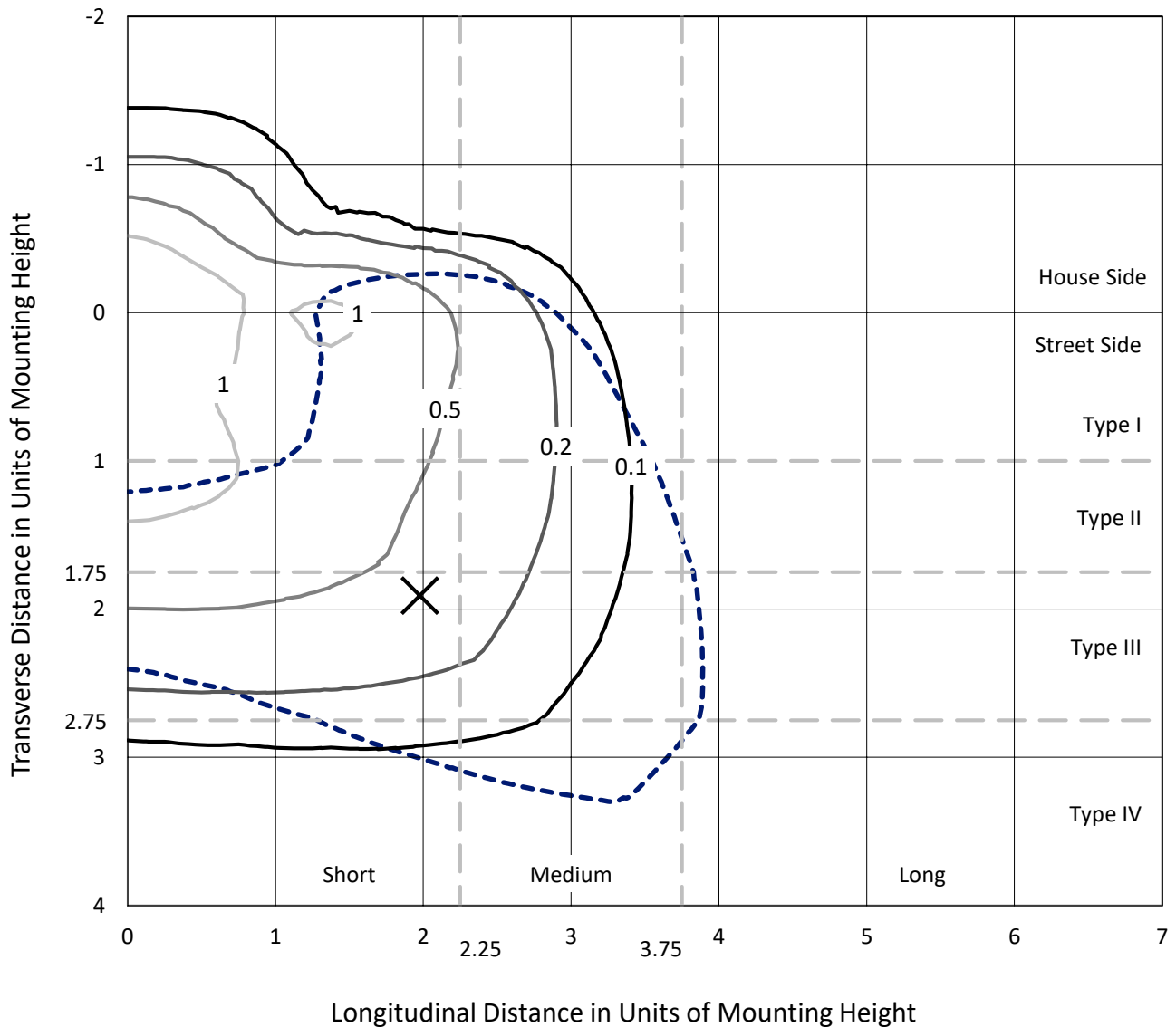
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

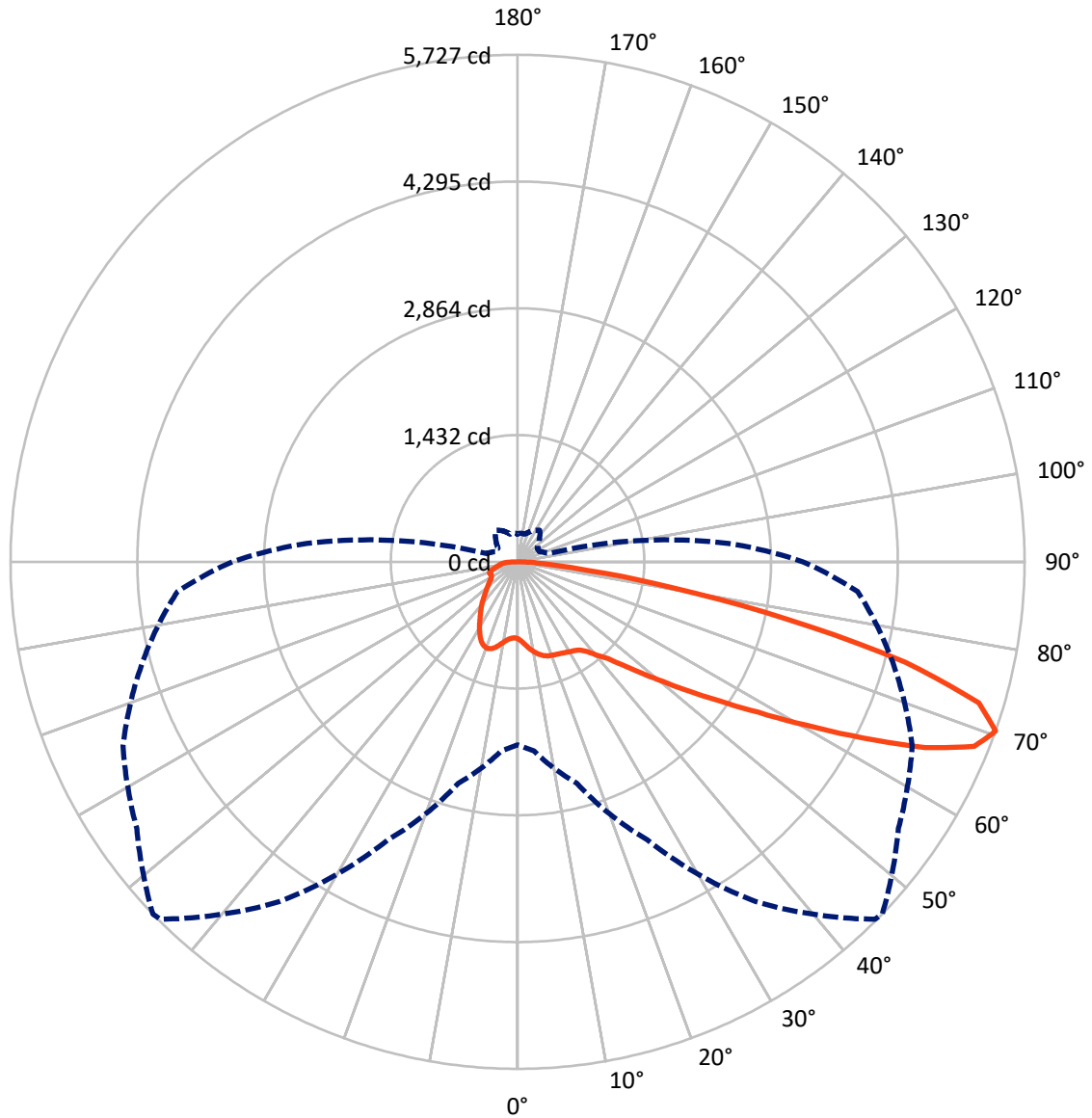
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1956.2 | 0.0 | 1956.2 |
| | % Fixture | 22.9 | 0.0 | 22.9 |
| Street Side | Lumens | 6578.8 | 0.0 | 6578.8 |
| | % Fixture | 77.1 | 0.0 | 77.1 |
| Total | Lumens | 8535.0 | 0.0 | 8535.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 88.6 | 1.0 |
| 10°-20° | 295.3 | 3.5 |
| 20°-30° | 492.4 | 5.8 |
| 30°-40° | 698.8 | 8.2 |
| 40°-50° | 1027.9 | 12.0 |
| 50°-60° | 1740.7 | 20.4 |
| 60°-70° | 2471.0 | 29.0 |
| 70°-80° | 1501.1 | 17.6 |
| 80°-90° | 219.1 | 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° | 8535.0 | 100.0 |
| 0°-180° | 8535.0 | 100.0 |

Coefficient of Utilization

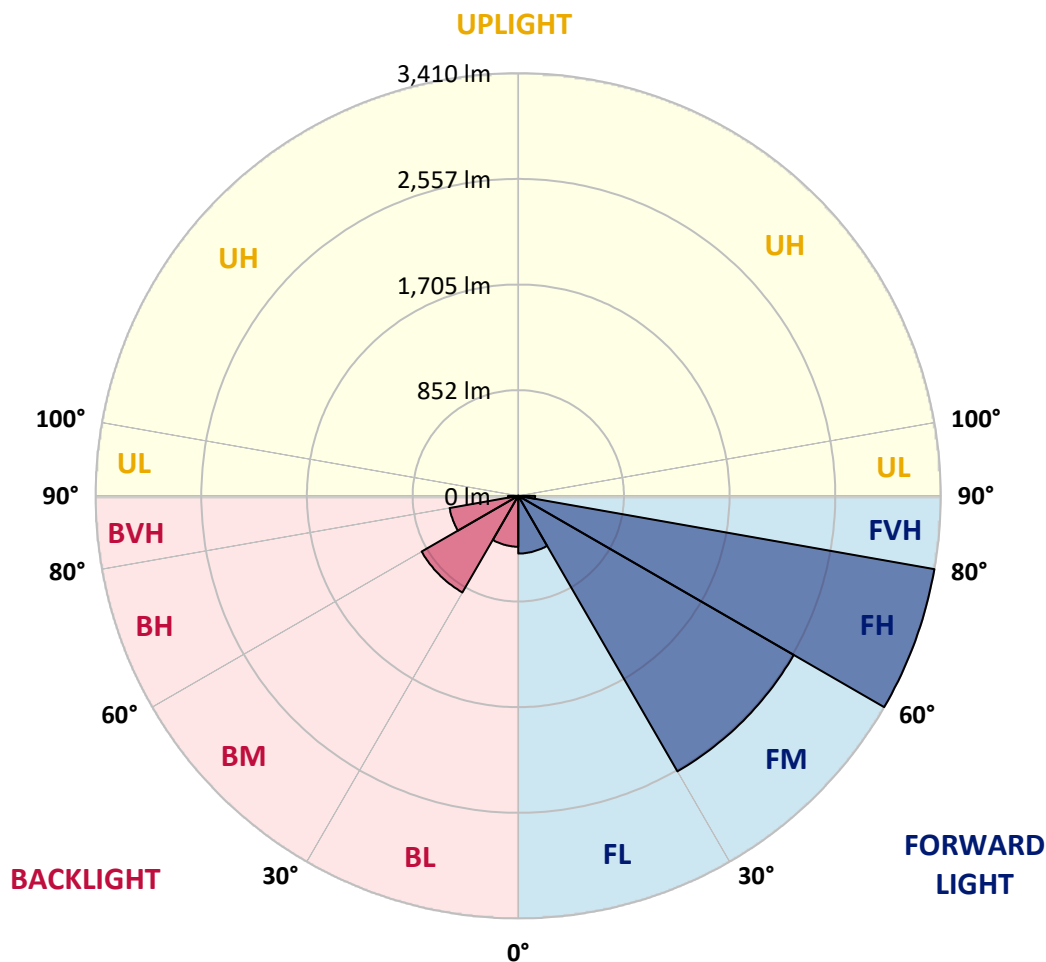


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 465.7 | 5.5 | | | |
| FM (30°-60°) | 2566.9 | 30.1 | | | |
| FH (60°-80°) | 3409.7 | 39.9 | | | G2/5000 |
| FVH (80°-90°) | 136.5 | 1.6 | | | G2/225 |
| BL (0°-30°) | 410.7 | 4.8 | B1/500 | | |
| BM (30°-60°) | 900.5 | 10.6 | B1/1000 | | |
| BH (60°-80°) | 562.4 | 6.6 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 82.6 | 1.0 | | | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 869.5 | 869.5 | 869.5 | 869.5 | 869.5 | 869.5 | 869.5 | 869.5 | 869.5 | 869.5 | 869.5 |
| 2.5° | 913.1 | 913.7 | 914.8 | 911.9 | 903.7 | 901.4 | 900.5 | 892.0 | 886.5 | 878.3 | 871.3 |
| 5° | 986.1 | 986.7 | 984.9 | 976.7 | 958.6 | 945.2 | 944.0 | 924.8 | 907.2 | 888.5 | 874.5 |
| 7.5° | 1062.3 | 1063.2 | 1057.7 | 1042.2 | 1016.8 | 993.4 | 991.9 | 965.6 | 939.1 | 910.7 | 889.7 |
| 10° | 1129.8 | 1126.3 | 1117.2 | 1095.6 | 1065.5 | 1036.9 | 1035.7 | 1008.3 | 977.6 | 943.4 | 915.4 |
| 12.5° | 1174.8 | 1171.9 | 1160.2 | 1133.9 | 1100.9 | 1074.6 | 1072.3 | 1046.8 | 1017.1 | 979.7 | 946.1 |
| 15° | 1199.6 | 1201.7 | 1185.9 | 1156.1 | 1124.0 | 1101.8 | 1099.7 | 1081.6 | 1055.0 | 1017.3 | 978.8 |
| 17.5° | 1202.8 | 1204.6 | 1189.4 | 1159.9 | 1133.6 | 1118.4 | 1117.5 | 1105.6 | 1086.3 | 1050.1 | 1009.8 |
| 20° | 1184.1 | 1185.3 | 1172.7 | 1148.5 | 1131.3 | 1126.6 | 1126.3 | 1121.0 | 1106.7 | 1074.6 | 1035.5 |
| 22.5° | 1157.0 | 1157.8 | 1148.8 | 1131.3 | 1125.4 | 1132.7 | 1134.8 | 1132.7 | 1122.5 | 1092.4 | 1055.6 |
| 25° | 1150.2 | 1149.7 | 1140.3 | 1122.5 | 1127.5 | 1142.9 | 1145.6 | 1146.4 | 1139.4 | 1113.2 | 1081.3 |
| 27.5° | 1182.7 | 1180.6 | 1162.8 | 1134.2 | 1137.4 | 1156.1 | 1159.6 | 1168.1 | 1163.7 | 1140.6 | 1110.5 |
| 30° | 1276.4 | 1272.9 | 1236.4 | 1178.6 | 1162.8 | 1172.4 | 1176.8 | 1190.3 | 1191.1 | 1171.9 | 1149.4 |
| 32.5° | 1434.7 | 1430.4 | 1364.9 | 1261.5 | 1205.7 | 1189.1 | 1193.2 | 1213.3 | 1224.1 | 1209.2 | 1185.0 |
| 35° | 1634.8 | 1629.9 | 1544.0 | 1402.6 | 1277.6 | 1220.9 | 1223.9 | 1239.9 | 1261.5 | 1240.5 | 1208.4 |
| 37.5° | 1843.4 | 1831.4 | 1748.7 | 1568.5 | 1391.8 | 1289.0 | 1289.0 | 1291.0 | 1301.3 | 1257.4 | 1235.8 |
| 40° | 2050.8 | 2038.8 | 1964.0 | 1763.6 | 1539.6 | 1396.2 | 1389.5 | 1344.2 | 1336.0 | 1298.3 | 1291.0 |
| 42.5° | 2243.5 | 2240.0 | 2195.9 | 1984.2 | 1713.1 | 1501.6 | 1492.3 | 1415.5 | 1417.2 | 1393.8 | 1394.1 |
| 45° | 2448.6 | 2448.6 | 2412.7 | 2206.7 | 1915.2 | 1671.0 | 1661.7 | 1548.7 | 1566.2 | 1555.4 | 1581.4 |
| 47.5° | 2616.0 | 2621.2 | 2616.2 | 2438.7 | 2150.4 | 1886.3 | 1869.4 | 1733.3 | 1782.3 | 1819.4 | 1895.1 |
| 50° | 2786.8 | 2795.0 | 2795.9 | 2693.1 | 2434.6 | 2142.2 | 2122.9 | 1978.3 | 2087.9 | 2194.2 | 2342.8 |
| 52.5° | 3034.8 | 3053.2 | 2979.9 | 2946.9 | 2782.7 | 2446.0 | 2427.0 | 2293.5 | 2476.3 | 2625.6 | 2881.8 |
| 55° | 3264.7 | 3248.6 | 3196.3 | 3216.8 | 3155.4 | 2791.8 | 2777.5 | 2660.3 | 2909.2 | 3103.2 | 3435.8 |
| 57.5° | 3389.1 | 3387.9 | 3440.5 | 3528.1 | 3557.4 | 3218.2 | 3206.3 | 3092.3 | 3397.3 | 3543.0 | 3956.1 |
| 60° | 3535.2 | 3537.2 | 3667.5 | 3866.4 | 3986.7 | 3749.3 | 3744.0 | 3657.5 | 3871.3 | 3953.7 | 4364.1 |
| 62.5° | 3555.6 | 3592.4 | 3816.7 | 4159.1 | 4388.6 | 4369.7 | 4381.3 | 4166.7 | 4295.5 | 4281.4 | 4668.8 |
| 65° | 3320.5 | 3369.0 | 3775.0 | 4247.6 | 4788.2 | 5048.2 | 5059.0 | 4678.7 | 4629.9 | 4561.6 | 4777.7 |
| 67.5° | 2838.5 | 2910.4 | 3351.4 | 4055.1 | 4919.9 | 5549.7 | 5564.9 | 5075.6 | 4907.4 | 4656.5 | 4515.4 |
| 70° | 2065.7 | 2145.4 | 2589.4 | 3463.3 | 4685.1 | 5710.1 | 5727.3 | 5251.2 | 4917.9 | 4386.3 | 3854.7 |
| 72.5° | 1247.8 | 1310.3 | 1676.3 | 2549.6 | 3954.3 | 5418.0 | 5448.6 | 5028.6 | 4490.0 | 3715.4 | 2846.4 |
| 75° | 548.0 | 588.9 | 810.5 | 1469.2 | 2830.9 | 4482.7 | 4521.0 | 4304.2 | 3648.2 | 2700.1 | 1682.4 |
| 77.5° | 233.4 | 245.1 | 332.4 | 638.2 | 1600.4 | 3063.1 | 3115.7 | 3144.9 | 2475.2 | 1469.2 | 710.9 |
| 80° | 145.5 | 150.1 | 188.1 | 288.9 | 748.9 | 1720.4 | 1777.1 | 1850.4 | 1229.1 | 540.1 | 248.3 |
| 82.5° | 88.5 | 93.8 | 125.0 | 174.7 | 389.9 | 779.9 | 807.0 | 858.7 | 477.0 | 233.4 | 128.5 |
| 85° | 53.2 | 57.0 | 76.5 | 110.4 | 222.0 | 306.7 | 306.4 | 338.8 | 224.6 | 150.1 | 67.8 |
| 87.5° | 25.4 | 28.3 | 40.9 | 57.2 | 111.9 | 115.1 | 107.8 | 122.1 | 136.4 | 98.4 | 34.2 |
| 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° | 869.5 | 869.5 | 869.5 | 869.5 | 869.5 | 869.5 | 869.5 | 869.5 | 869.5 | 869.5 | 869.5 |
| 2.5° | 869.0 | 867.8 | 864.0 | 861.1 | 860.5 | 858.7 | 857.3 | 858.2 | 859.3 | 859.6 | 859.6 |
| 5° | 868.7 | 865.5 | 860.5 | 858.5 | 861.1 | 864.6 | 869.0 | 874.8 | 878.3 | 880.9 | 882.7 |
| 7.5° | 882.7 | 876.6 | 871.0 | 869.8 | 875.1 | 884.4 | 894.4 | 906.6 | 915.1 | 921.0 | 922.1 |
| 10° | 906.1 | 898.5 | 892.9 | 894.1 | 903.4 | 916.9 | 930.9 | 946.7 | 959.5 | 967.4 | 968.0 |
| 12.5° | 932.9 | 925.6 | 920.4 | 925.3 | 940.8 | 957.2 | 971.8 | 985.5 | 997.2 | 1005.1 | 1005.1 |
| 15° | 963.9 | 958.6 | 952.5 | 963.9 | 984.9 | 999.5 | 1005.7 | 1012.4 | 1018.8 | 1024.6 | 1023.5 |
| 17.5° | 993.7 | 988.7 | 985.5 | 998.9 | 1020.9 | 1027.6 | 1023.5 | 1018.5 | 1018.5 | 1021.7 | 1022.3 |
| 20° | 1019.4 | 1015.0 | 1017.1 | 1030.2 | 1041.6 | 1034.6 | 1019.4 | 1003.6 | 997.2 | 998.9 | 1000.7 |
| 22.5° | 1041.9 | 1039.8 | 1046.0 | 1052.1 | 1043.9 | 1019.4 | 991.4 | 970.0 | 962.1 | 961.6 | 962.1 |
| 25° | 1068.2 | 1067.9 | 1075.5 | 1064.4 | 1028.2 | 982.9 | 945.2 | 924.5 | 920.1 | 923.6 | 929.4 |
| 27.5° | 1100.9 | 1104.1 | 1107.9 | 1067.3 | 996.0 | 927.7 | 889.4 | 875.1 | 879.5 | 888.0 | 893.5 |
| 30° | 1142.7 | 1151.4 | 1143.2 | 1060.0 | 949.9 | 864.6 | 828.1 | 824.0 | 836.0 | 847.9 | 853.8 |
| 32.5° | 1183.3 | 1197.0 | 1177.1 | 1041.0 | 890.3 | 797.7 | 769.4 | 768.2 | 782.8 | 794.5 | 802.7 |
| 35° | 1216.0 | 1243.1 | 1202.5 | 1003.3 | 821.4 | 736.1 | 715.3 | 707.4 | 712.7 | 726.4 | 735.8 |
| 37.5° | 1258.6 | 1303.9 | 1220.1 | 945.8 | 746.6 | 685.2 | 661.0 | 642.9 | 638.2 | 643.8 | 648.4 |
| 40° | 1336.6 | 1396.5 | 1228.2 | 865.5 | 673.6 | 634.4 | 609.9 | 583.3 | 564.9 | 551.5 | 551.8 |
| 42.5° | 1464.0 | 1517.1 | 1223.0 | 767.9 | 606.1 | 584.8 | 557.0 | 526.3 | 496.6 | 466.2 | 463.8 |
| 45° | 1670.8 | 1696.5 | 1207.2 | 664.5 | 546.8 | 532.8 | 506.8 | 476.1 | 436.4 | 401.9 | 398.7 |
| 47.5° | 2001.7 | 1944.7 | 1182.7 | 574.2 | 494.5 | 488.7 | 464.7 | 429.4 | 387.3 | 359.6 | 357.2 |
| 50° | 2453.0 | 2303.1 | 1170.7 | 502.4 | 448.4 | 450.1 | 430.5 | 393.2 | 353.4 | 333.0 | 330.6 |
| 52.5° | 2992.7 | 2720.5 | 1193.8 | 446.9 | 411.3 | 417.4 | 402.8 | 367.7 | 334.4 | 318.4 | 316.0 |
| 55° | 3552.7 | 3152.8 | 1218.6 | 406.6 | 376.2 | 388.2 | 383.2 | 354.3 | 324.2 | 309.3 | 307.3 |
| 57.5° | 4032.0 | 3475.6 | 1168.9 | 373.9 | 345.0 | 363.7 | 368.0 | 345.8 | 319.0 | 305.5 | 303.2 |
| 60° | 4333.7 | 3605.5 | 1038.7 | 343.2 | 320.1 | 344.1 | 359.3 | 343.5 | 321.0 | 319.8 | 318.1 |
| 62.5° | 4476.9 | 3594.2 | 843.3 | 319.0 | 304.6 | 335.6 | 365.7 | 356.6 | 344.4 | 354.9 | 355.8 |
| 65° | 4412.6 | 3422.4 | 628.0 | 302.9 | 293.5 | 338.8 | 385.0 | 381.5 | 351.1 | 361.6 | 363.1 |
| 67.5° | 3989.6 | 3012.6 | 465.0 | 288.9 | 281.3 | 347.9 | 420.0 | 389.6 | 337.9 | 345.5 | 340.9 |
| 70° | 3224.7 | 2388.4 | 358.7 | 273.1 | 268.7 | 346.7 | 435.8 | 384.7 | 323.6 | 325.4 | 312.8 |
| 72.5° | 2223.7 | 1628.7 | 291.8 | 258.5 | 250.6 | 316.0 | 424.7 | 372.4 | 311.7 | 298.2 | 281.6 |
| 75° | 1209.2 | 874.2 | 248.0 | 243.3 | 218.8 | 277.5 | 404.3 | 363.7 | 300.9 | 283.0 | 273.7 |
| 77.5° | 475.8 | 362.8 | 215.3 | 222.6 | 191.3 | 245.1 | 381.5 | 347.0 | 286.0 | 262.6 | 257.9 |
| 80° | 194.2 | 185.2 | 178.5 | 192.5 | 164.4 | 214.4 | 354.0 | 327.4 | 268.1 | 243.6 | 234.3 |
| 82.5° | 110.1 | 115.1 | 138.7 | 151.9 | 133.5 | 197.5 | 340.9 | 311.7 | 246.8 | 218.2 | 207.1 |
| 85° | 56.4 | 67.5 | 96.7 | 108.9 | 98.1 | 168.0 | 314.0 | 272.8 | 198.0 | 167.1 | 168.0 |
| 87.5° | 27.2 | 37.7 | 61.0 | 68.3 | 63.7 | 121.5 | 234.5 | 197.7 | 154.2 | 122.1 | 118.3 |
| 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)