

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: P269198

Luminaire Tested: **GLEON-AF-03-LED-E1-T4W-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-T4W-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10329.1 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

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: 25 FT

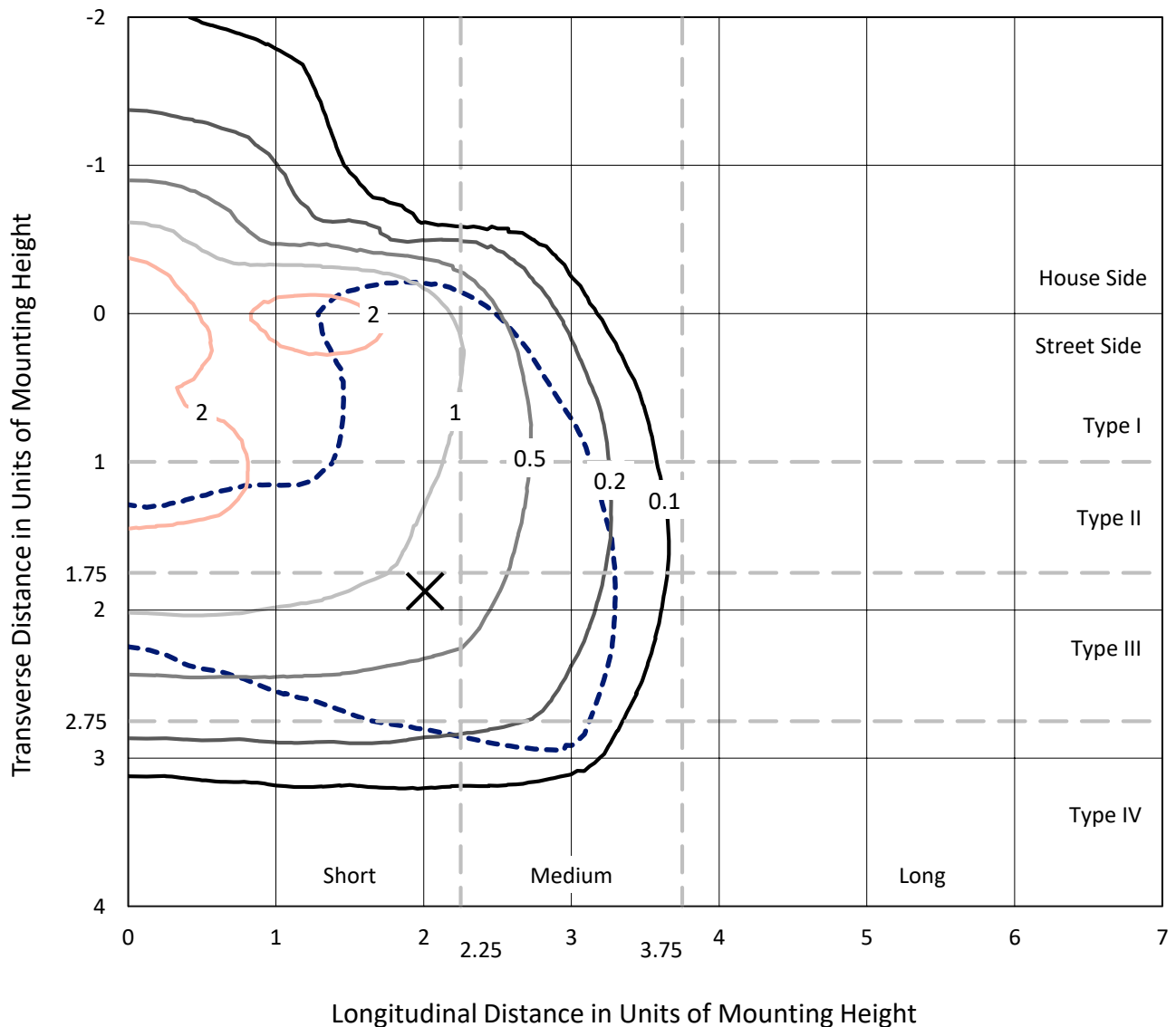


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

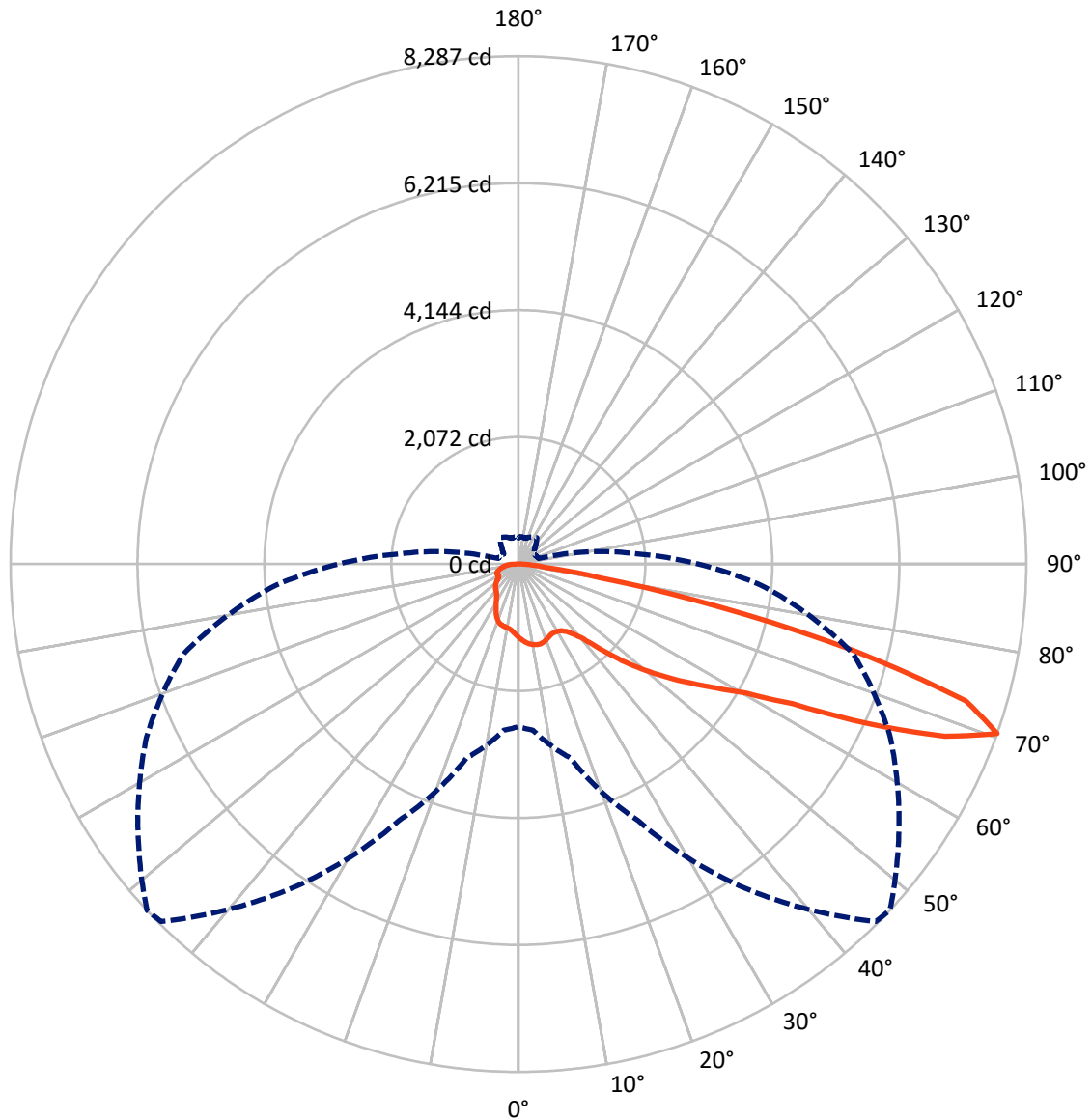


Based on 20 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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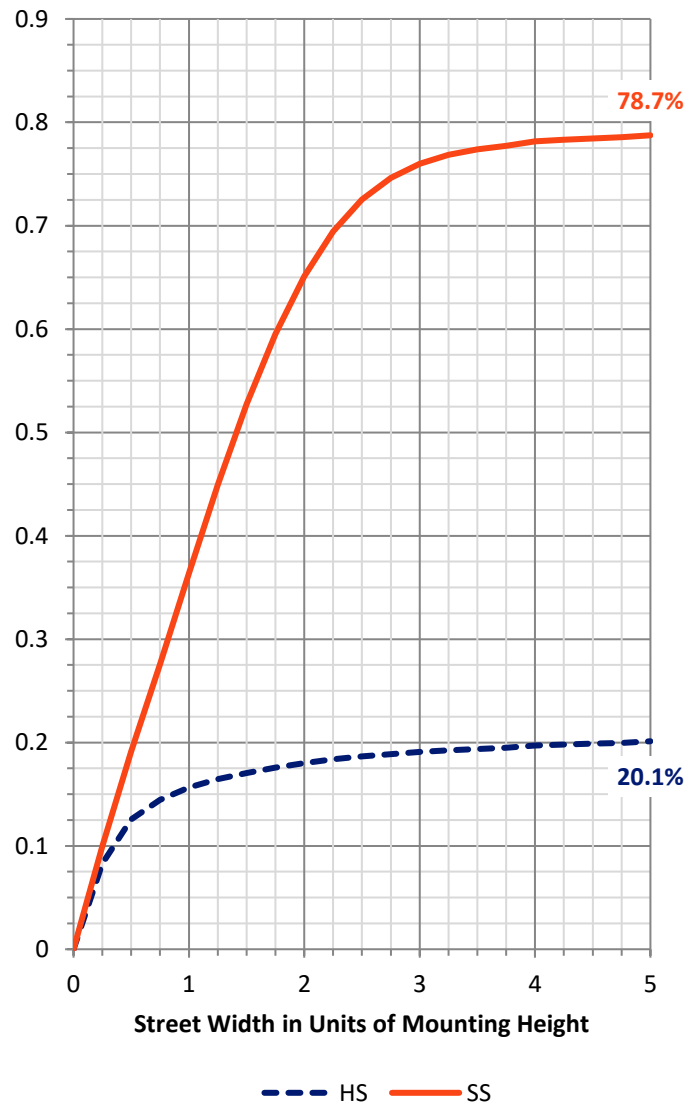
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2154.8 | 0.0 | 2154.8 |
| | % Fixture | 20.9 | 0.0 | 20.9 |
| Street Side | Lumens | 8174.3 | 0.0 | 8174.3 |
| | % Fixture | 79.1 | 0.0 | 79.1 |
| Total | Lumens | 10329.1 | 0.0 | 10329.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 114.8 | 1.1 |
| 10°-20° | 336.9 | 3.3 |
| 20°-30° | 497.5 | 4.8 |
| 30°-40° | 723.1 | 7.0 |
| 40°-50° | 1301.4 | 12.6 |
| 50°-60° | 2254.5 | 21.8 |
| 60°-70° | 3217.8 | 31.2 |
| 70°-80° | 1651.8 | 16.0 |
| 80°-90° | 231.3 | 2.2 |
| 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° | 10329.1 | 100.0 |
| 0°-180° | 10329.1 | 100.0 |



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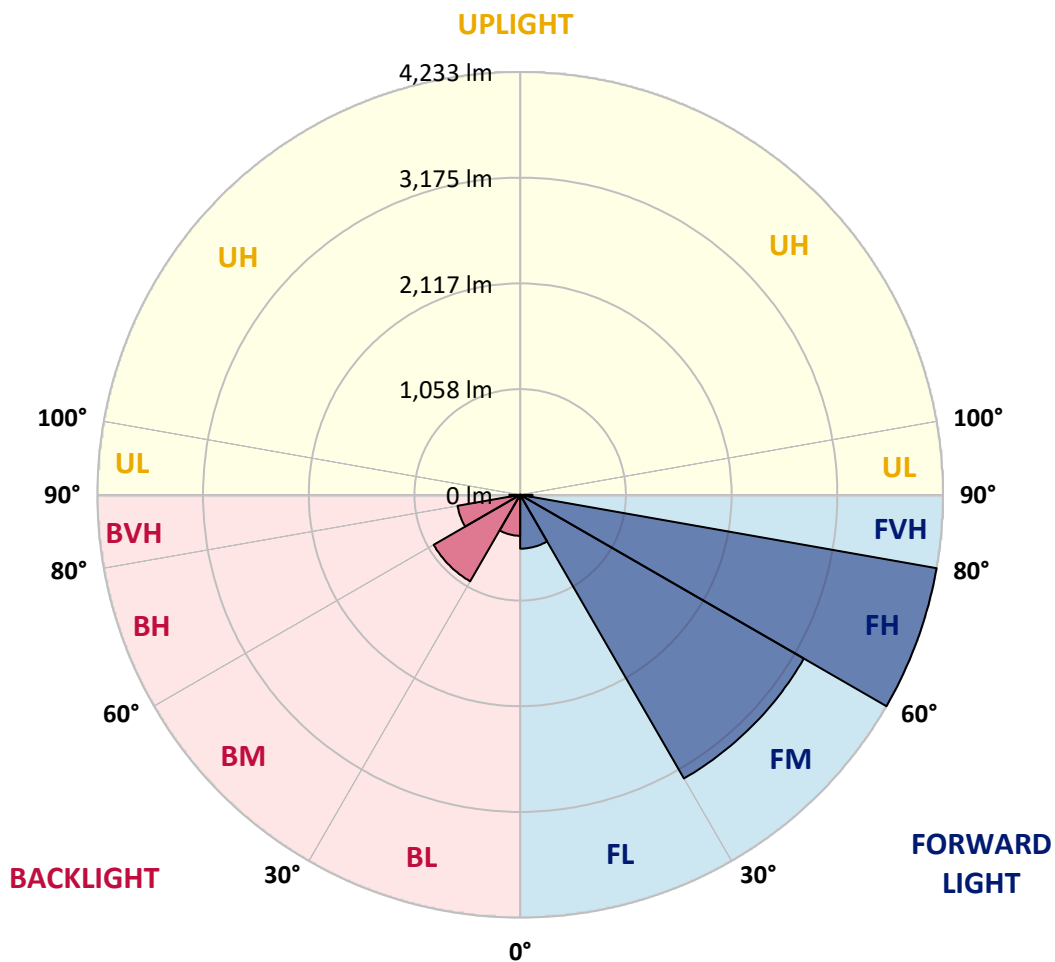
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 539.0 | 5.2 | | | |
| FM | (30°-60°) | 3278.8 | 31.7 | | | |
| FH | (60°-80°) | 4233.1 | 41.0 | | | G2/5000 |
| FVH | (80°-90°) | 123.4 | 1.2 | | | G2/225 |
| BL | (0°-30°) | 410.3 | 4.0 | B1/500 | | |
| BM | (30°-60°) | 1000.2 | 9.7 | B2/2500 | | |
| BH | (60°-80°) | 636.5 | 6.2 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 107.9 | 1.0 | | | G2/225 |
| 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° | 47° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1198.5 | 1198.5 | 1198.5 | 1198.5 | 1198.5 | 1198.5 | 1198.5 | 1198.5 | 1198.5 | 1198.5 | 1198.5 |
| 2.5° | 1268.9 | 1266.3 | 1265.4 | 1263.3 | 1260.9 | 1248.3 | 1245.7 | 1236.6 | 1224.1 | 1211.0 | 1197.5 |
| 5° | 1352.3 | 1351.8 | 1346.2 | 1336.1 | 1320.1 | 1292.5 | 1286.0 | 1263.8 | 1234.2 | 1205.5 | 1176.9 |
| 7.5° | 1425.6 | 1421.1 | 1410.6 | 1390.4 | 1362.3 | 1324.6 | 1315.6 | 1284.9 | 1244.2 | 1205.0 | 1166.3 |
| 10° | 1479.4 | 1477.0 | 1453.7 | 1426.1 | 1389.5 | 1347.7 | 1337.1 | 1303.0 | 1258.3 | 1208.6 | 1160.3 |
| 12.5° | 1510.1 | 1505.0 | 1478.4 | 1445.3 | 1401.5 | 1360.8 | 1350.2 | 1315.6 | 1265.4 | 1208.6 | 1151.7 |
| 15° | 1508.1 | 1504.5 | 1477.9 | 1441.7 | 1397.6 | 1361.8 | 1352.3 | 1317.6 | 1263.8 | 1203.5 | 1140.7 |
| 17.5° | 1467.8 | 1469.4 | 1446.7 | 1411.1 | 1374.9 | 1347.7 | 1339.3 | 1307.0 | 1253.8 | 1193.5 | 1127.6 |
| 20° | 1397.6 | 1404.5 | 1389.5 | 1357.8 | 1337.7 | 1319.2 | 1313.6 | 1286.5 | 1238.3 | 1178.8 | 1113.5 |
| 22.5° | 1327.2 | 1333.7 | 1327.7 | 1301.0 | 1298.1 | 1286.9 | 1283.9 | 1264.4 | 1224.6 | 1169.9 | 1105.0 |
| 25° | 1275.4 | 1281.4 | 1280.4 | 1257.3 | 1266.3 | 1265.8 | 1263.3 | 1253.8 | 1221.7 | 1169.9 | 1106.5 |
| 27.5° | 1261.3 | 1263.3 | 1261.3 | 1240.2 | 1252.7 | 1262.7 | 1260.9 | 1259.3 | 1230.7 | 1184.4 | 1125.7 |
| 30° | 1309.5 | 1306.6 | 1291.0 | 1248.3 | 1259.9 | 1273.8 | 1271.9 | 1272.9 | 1257.7 | 1222.7 | 1168.3 |
| 32.5° | 1502.1 | 1488.4 | 1439.3 | 1319.2 | 1288.4 | 1296.0 | 1297.1 | 1313.6 | 1316.0 | 1281.4 | 1234.7 |
| 35° | 1790.0 | 1775.0 | 1711.0 | 1509.1 | 1377.5 | 1351.3 | 1351.3 | 1376.5 | 1391.5 | 1365.9 | 1337.7 |
| 37.5° | 2094.9 | 2078.4 | 2044.3 | 1772.4 | 1564.3 | 1447.2 | 1444.7 | 1462.4 | 1483.9 | 1490.0 | 1496.9 |
| 40° | 2441.8 | 2424.2 | 2433.7 | 2067.9 | 1825.1 | 1613.5 | 1578.0 | 1565.3 | 1623.6 | 1662.4 | 1718.5 |
| 42.5° | 2821.0 | 2813.1 | 2816.5 | 2396.9 | 2122.2 | 1862.4 | 1811.5 | 1746.8 | 1817.1 | 1885.9 | 2003.9 |
| 45° | 3172.4 | 3179.5 | 3175.9 | 2749.3 | 2452.8 | 2165.9 | 2112.1 | 1986.4 | 2055.3 | 2173.4 | 2365.9 |
| 47.5° | 3479.9 | 3450.7 | 3496.1 | 3134.1 | 2823.2 | 2505.6 | 2439.2 | 2270.8 | 2340.8 | 2486.5 | 2812.1 |
| 50° | 3853.3 | 3849.2 | 3782.9 | 3647.7 | 3270.9 | 2846.8 | 2759.9 | 2564.8 | 2673.4 | 2876.0 | 3374.5 |
| 52.5° | 4245.7 | 4172.8 | 4112.1 | 4047.3 | 3745.8 | 3196.4 | 3090.0 | 2857.8 | 3064.4 | 3319.1 | 4059.8 |
| 55° | 4326.1 | 4293.4 | 4368.8 | 4478.0 | 4203.6 | 3559.9 | 3435.7 | 3225.2 | 3504.6 | 3825.6 | 4850.3 |
| 57.5° | 4498.1 | 4497.5 | 4653.3 | 4847.8 | 4674.9 | 3945.3 | 3820.1 | 3668.9 | 3999.6 | 4406.0 | 5689.4 |
| 60° | 4614.1 | 4646.8 | 4936.1 | 5313.7 | 5137.8 | 4390.5 | 4275.5 | 4180.9 | 4562.3 | 5054.9 | 6471.4 |
| 62.5° | 4674.9 | 4719.2 | 5114.1 | 5502.6 | 5792.0 | 5131.7 | 5016.7 | 4880.4 | 5307.0 | 5766.4 | 6928.6 |
| 65° | 4422.1 | 4509.0 | 5086.5 | 5665.9 | 6364.9 | 6333.2 | 6281.5 | 6042.2 | 6238.2 | 6328.6 | 6763.3 |
| 67.5° | 3722.7 | 3811.6 | 4483.9 | 5513.5 | 6773.8 | 7492.0 | 7503.1 | 7094.5 | 6811.0 | 6376.9 | 5686.5 |
| 70° | 2652.2 | 2722.1 | 3278.5 | 4622.7 | 6462.3 | 8249.2 | 8287.0 | 7579.4 | 6697.0 | 5655.3 | 3972.8 |
| 72.5° | 1259.3 | 1302.1 | 1828.7 | 3008.6 | 5128.2 | 7558.2 | 7631.2 | 6960.3 | 5694.4 | 4187.0 | 2167.3 |
| 75° | 462.7 | 475.9 | 618.2 | 1279.9 | 2974.4 | 5574.0 | 5659.9 | 4989.5 | 3774.9 | 2084.4 | 825.6 |
| 77.5° | 277.3 | 285.9 | 346.7 | 540.2 | 1169.9 | 3186.0 | 3313.0 | 2713.6 | 1649.7 | 775.9 | 406.0 |
| 80° | 193.9 | 200.1 | 248.7 | 336.1 | 552.7 | 1214.1 | 1327.2 | 1107.5 | 657.3 | 491.0 | 295.5 |
| 82.5° | 131.2 | 134.1 | 174.9 | 227.1 | 367.3 | 433.7 | 467.8 | 492.5 | 443.3 | 365.3 | 187.4 |
| 85° | 86.0 | 88.9 | 118.5 | 149.7 | 233.6 | 224.1 | 229.2 | 290.0 | 323.6 | 248.2 | 104.1 |
| 87.5° | 49.2 | 51.3 | 71.3 | 79.9 | 114.5 | 95.0 | 95.9 | 152.7 | 207.0 | 167.4 | 63.3 |
| 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° | 1198.5 | 1198.5 | 1198.5 | 1198.5 | 1198.5 | 1198.5 | 1198.5 | 1198.5 | 1198.5 | 1198.5 | 1198.5 |
| 2.5° | 1193.9 | 1187.4 | 1172.8 | 1163.8 | 1155.3 | 1153.2 | 1149.7 | 1149.2 | 1148.8 | 1148.8 | 1147.2 |
| 5° | 1167.3 | 1156.3 | 1133.8 | 1121.2 | 1110.6 | 1109.5 | 1109.0 | 1111.6 | 1112.6 | 1113.5 | 1112.0 |
| 7.5° | 1150.3 | 1135.2 | 1107.0 | 1088.9 | 1076.3 | 1073.4 | 1078.3 | 1090.0 | 1097.5 | 1100.6 | 1098.9 |
| 10° | 1139.7 | 1121.2 | 1088.4 | 1068.9 | 1058.4 | 1056.8 | 1063.4 | 1076.9 | 1092.5 | 1098.4 | 1098.0 |
| 12.5° | 1127.6 | 1106.5 | 1071.9 | 1051.2 | 1045.3 | 1048.2 | 1056.8 | 1069.3 | 1085.4 | 1094.9 | 1095.6 |
| 15° | 1115.5 | 1090.9 | 1055.2 | 1037.3 | 1034.7 | 1038.7 | 1046.7 | 1056.2 | 1068.9 | 1078.3 | 1079.5 |
| 17.5° | 1101.1 | 1075.5 | 1039.7 | 1021.2 | 1019.0 | 1021.2 | 1021.6 | 1026.7 | 1034.7 | 1043.7 | 1046.3 |
| 20° | 1085.4 | 1059.3 | 1022.1 | 1003.5 | 994.5 | 986.3 | 977.4 | 978.4 | 980.9 | 989.9 | 992.0 |
| 22.5° | 1074.4 | 1048.2 | 1008.5 | 982.9 | 958.9 | 934.6 | 916.6 | 914.0 | 915.1 | 922.6 | 925.2 |
| 25° | 1075.5 | 1047.8 | 1005.1 | 960.7 | 908.0 | 869.4 | 845.2 | 841.3 | 840.8 | 846.3 | 849.7 |
| 27.5° | 1094.9 | 1067.4 | 1018.0 | 938.2 | 852.9 | 795.4 | 769.8 | 766.9 | 762.8 | 764.3 | 768.3 |
| 30° | 1138.7 | 1113.1 | 1049.8 | 915.1 | 792.9 | 723.1 | 696.5 | 693.5 | 687.9 | 685.4 | 688.5 |
| 32.5° | 1210.0 | 1188.9 | 1096.0 | 892.9 | 733.1 | 661.3 | 634.2 | 627.6 | 624.1 | 621.1 | 623.7 |
| 35° | 1328.7 | 1319.6 | 1157.7 | 868.8 | 680.3 | 613.5 | 589.0 | 578.9 | 573.8 | 579.3 | 583.4 |
| 37.5° | 1514.6 | 1519.7 | 1238.8 | 831.1 | 639.8 | 581.9 | 561.4 | 549.8 | 542.1 | 546.8 | 551.3 |
| 40° | 1777.8 | 1781.3 | 1328.1 | 777.9 | 604.5 | 563.2 | 541.1 | 530.7 | 520.1 | 512.0 | 511.6 |
| 42.5° | 2123.7 | 2087.9 | 1416.1 | 720.1 | 563.9 | 551.7 | 527.1 | 514.1 | 498.0 | 475.9 | 471.4 |
| 45° | 2533.7 | 2408.5 | 1482.9 | 653.7 | 518.1 | 537.6 | 511.6 | 493.4 | 468.3 | 444.2 | 441.6 |
| 47.5° | 3006.1 | 2752.8 | 1515.6 | 584.9 | 475.4 | 517.1 | 492.5 | 463.9 | 432.2 | 420.0 | 418.6 |
| 50° | 3582.9 | 3161.3 | 1531.3 | 518.1 | 438.3 | 489.9 | 464.9 | 431.1 | 404.5 | 402.0 | 400.6 |
| 52.5° | 4239.7 | 3652.8 | 1536.2 | 463.3 | 407.6 | 454.8 | 442.2 | 409.5 | 388.4 | 390.5 | 390.5 |
| 55° | 4927.2 | 4160.3 | 1467.8 | 423.6 | 379.4 | 418.6 | 427.1 | 401.1 | 383.4 | 391.4 | 394.4 |
| 57.5° | 5558.4 | 4610.1 | 1252.7 | 393.0 | 352.8 | 390.9 | 421.7 | 409.1 | 397.1 | 429.7 | 431.6 |
| 60° | 6042.8 | 4875.9 | 935.7 | 365.3 | 333.2 | 381.4 | 436.1 | 439.7 | 442.8 | 520.6 | 531.2 |
| 62.5° | 6144.2 | 4787.4 | 643.2 | 343.7 | 324.1 | 389.4 | 462.7 | 463.3 | 459.8 | 514.1 | 520.6 |
| 65° | 5678.5 | 4228.1 | 467.8 | 331.7 | 316.7 | 404.0 | 485.4 | 474.8 | 451.8 | 493.0 | 481.0 |
| 67.5° | 4509.6 | 3185.4 | 389.4 | 322.6 | 305.6 | 403.0 | 509.6 | 485.4 | 447.3 | 482.8 | 463.3 |
| 70° | 2927.1 | 1926.1 | 346.7 | 315.0 | 292.5 | 383.9 | 523.6 | 484.5 | 434.2 | 449.2 | 426.2 |
| 72.5° | 1428.1 | 861.4 | 318.1 | 304.0 | 279.0 | 357.3 | 523.2 | 475.4 | 420.5 | 419.6 | 407.0 |
| 75° | 558.7 | 394.4 | 291.9 | 287.5 | 255.7 | 327.2 | 509.1 | 462.3 | 404.5 | 388.4 | 383.9 |
| 77.5° | 327.2 | 281.3 | 258.8 | 262.8 | 228.1 | 297.0 | 488.5 | 439.7 | 382.4 | 363.4 | 358.3 |
| 80° | 238.2 | 210.6 | 220.7 | 227.1 | 195.0 | 266.8 | 460.8 | 412.1 | 357.7 | 367.3 | 360.3 |
| 82.5° | 152.7 | 135.6 | 178.9 | 185.4 | 162.4 | 236.2 | 430.6 | 382.9 | 323.1 | 293.4 | 286.4 |
| 85° | 78.0 | 86.0 | 133.2 | 141.3 | 125.1 | 193.9 | 393.9 | 344.2 | 284.0 | 244.2 | 248.2 |
| 87.5° | 43.7 | 58.7 | 84.9 | 95.0 | 88.5 | 149.3 | 319.5 | 284.0 | 231.7 | 188.5 | 165.8 |
| 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)