

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: P382789

Luminaire Tested: **GLEON-SA1C-735-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1C-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7052.8 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

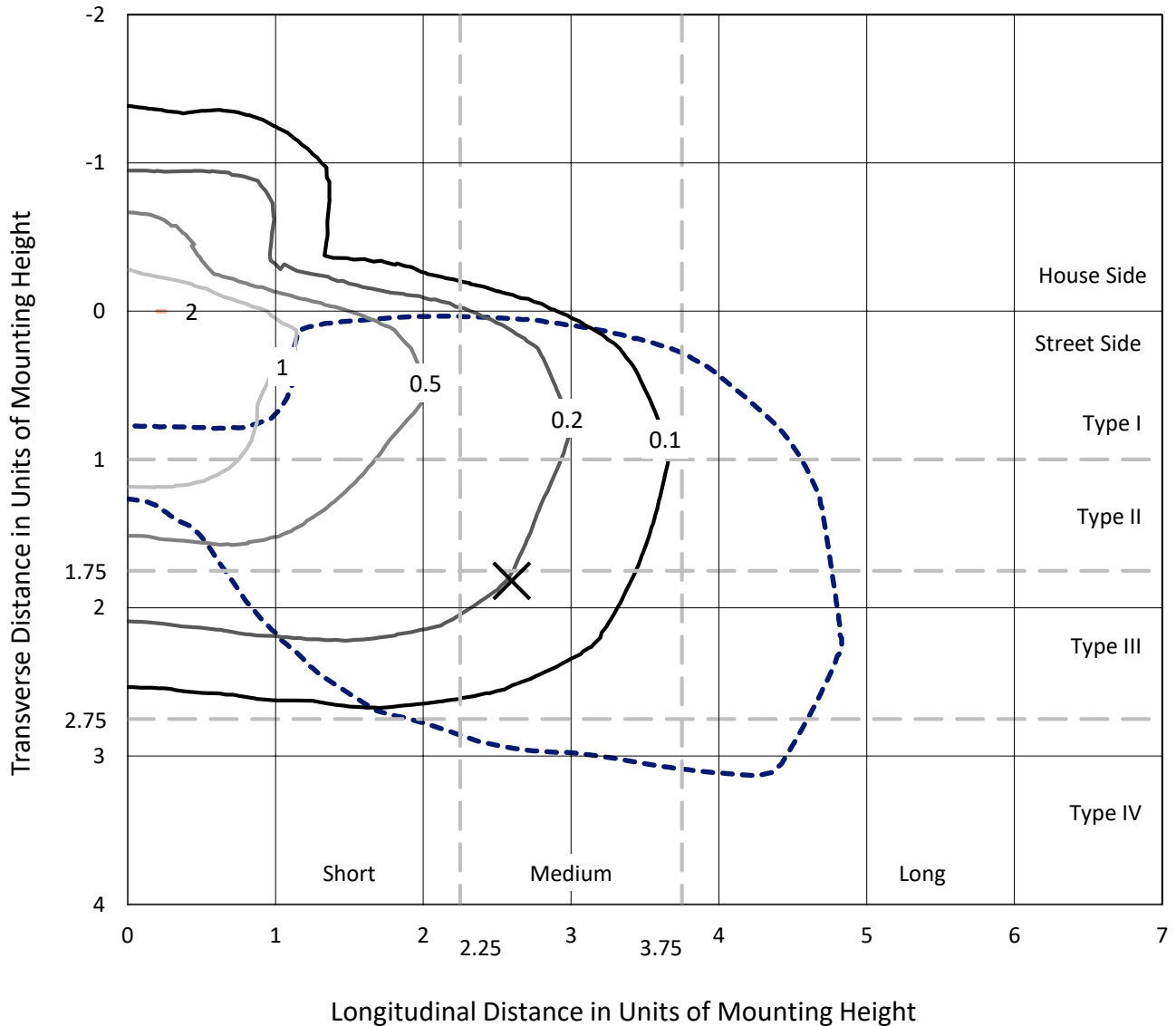
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

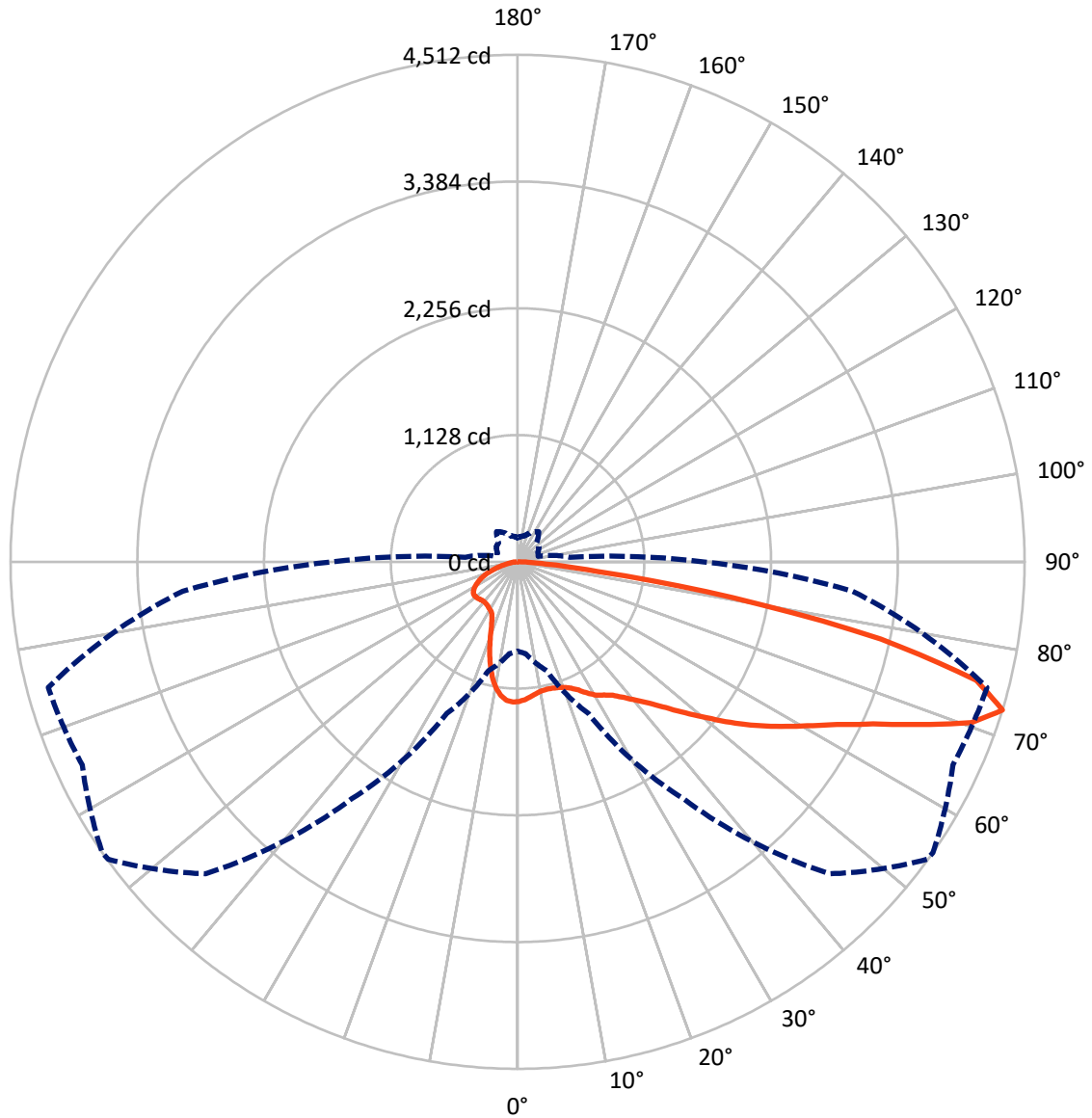
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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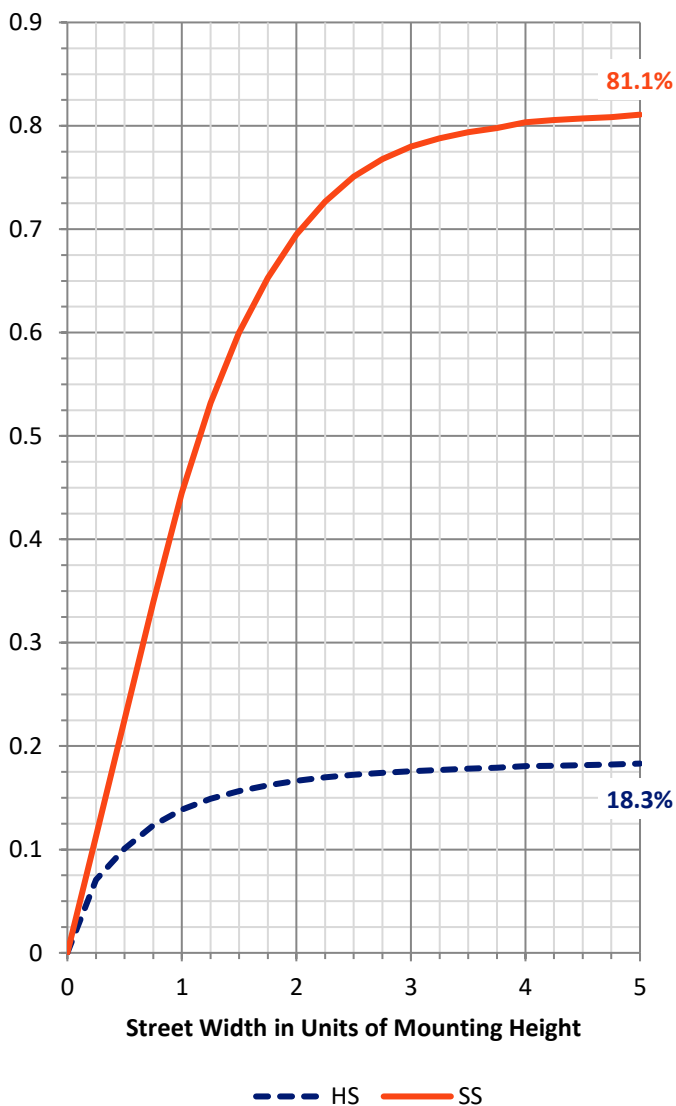
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1310.9 | 0.0 | 1310.9 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 5741.9 | 0.0 | 5741.9 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 7052.8 | 0.0 | 7052.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 112.6 | 1.6 |
| 10°-20° | 299.7 | 4.2 |
| 20°-30° | 494.1 | 7.0 |
| 30°-40° | 730.9 | 10.4 |
| 40°-50° | 1020.2 | 14.5 |
| 50°-60° | 1328.3 | 18.8 |
| 60°-70° | 1632.5 | 23.1 |
| 70°-80° | 1279.7 | 18.1 |
| 80°-90° | 154.9 | 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° | 7052.8 | 100.0 |
| 0°-180° | 7052.8 | 100.0 |

Coefficient of Utilization

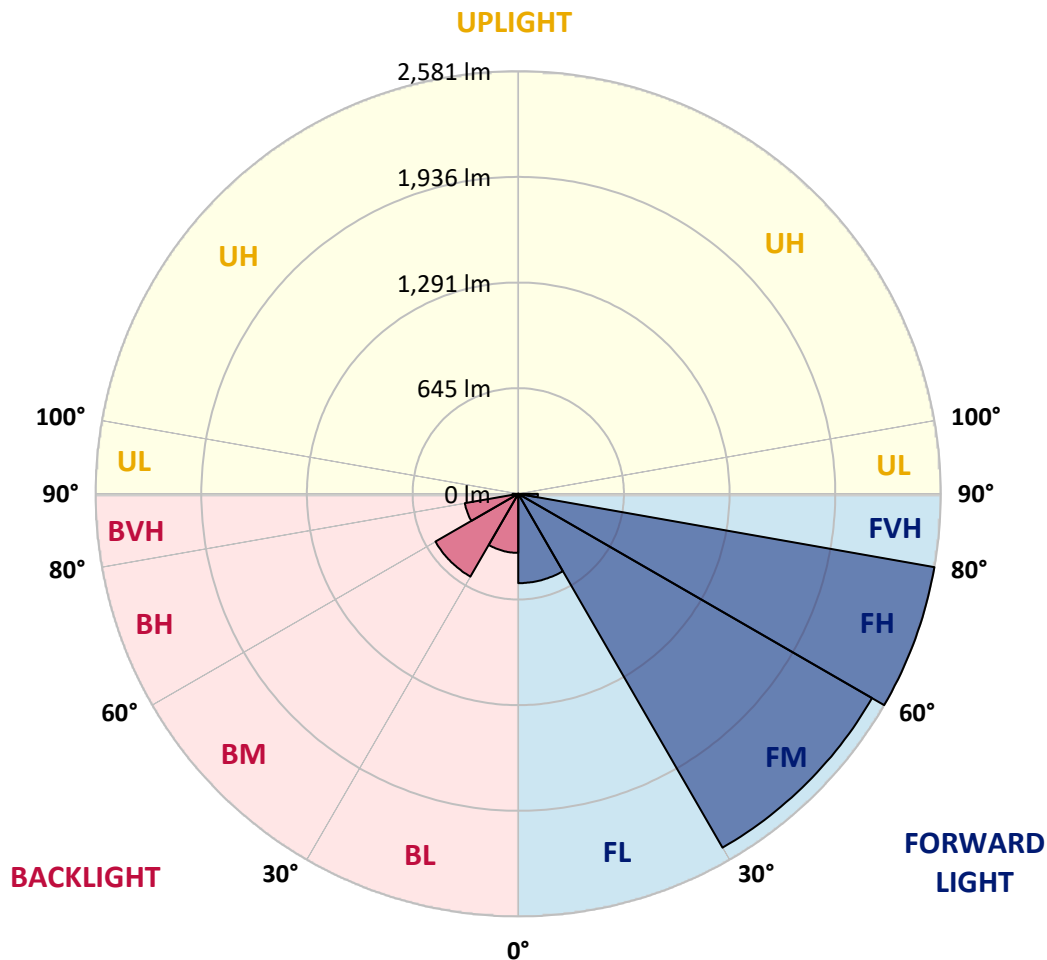


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 545.7 | 7.7 | | | |
| FM (30°-60°) | 2495.4 | 35.4 | | | |
| FH (60°-80°) | 2581.1 | 36.6 | | | G2/5000 |
| FVH (80°-90°) | 119.7 | 1.7 | | | G2/225 |
| BL (0°-30°) | 360.7 | 5.1 | B1/500 | | |
| BM (30°-60°) | 584.0 | 8.3 | B1/1000 | | |
| BH (60°-80°) | 331.1 | 4.7 | B1/500 | | G1/500 |
| BVH (80°-90°) | 35.1 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1244.0 | 1244.0 | 1244.0 | 1244.0 | 1244.0 | 1244.0 | 1244.0 | 1244.0 | 1244.0 | 1244.0 | 1244.0 |
| 2.5° | 1203.5 | 1200.6 | 1204.2 | 1209.1 | 1214.6 | 1222.0 | 1226.3 | 1228.2 | 1235.6 | 1238.5 | 1244.6 |
| 5° | 1147.8 | 1146.3 | 1152.2 | 1160.8 | 1173.0 | 1190.1 | 1203.9 | 1206.5 | 1226.1 | 1239.9 | 1252.6 |
| 7.5° | 1107.2 | 1107.2 | 1114.1 | 1124.4 | 1138.0 | 1161.1 | 1180.6 | 1184.2 | 1217.3 | 1247.1 | 1270.4 |
| 10° | 1075.1 | 1076.2 | 1084.3 | 1096.5 | 1112.5 | 1137.0 | 1162.9 | 1167.0 | 1214.9 | 1263.7 | 1300.9 |
| 12.5° | 1053.6 | 1056.5 | 1063.8 | 1074.8 | 1094.6 | 1124.4 | 1157.3 | 1162.8 | 1219.9 | 1287.6 | 1337.6 |
| 15° | 1067.2 | 1071.9 | 1072.7 | 1077.2 | 1088.1 | 1120.6 | 1160.6 | 1166.3 | 1230.6 | 1311.8 | 1379.2 |
| 17.5° | 1126.7 | 1128.4 | 1121.0 | 1111.5 | 1106.3 | 1127.0 | 1170.6 | 1176.5 | 1243.5 | 1335.9 | 1419.3 |
| 20° | 1217.3 | 1216.3 | 1200.4 | 1174.6 | 1147.9 | 1151.3 | 1187.0 | 1193.2 | 1260.8 | 1357.1 | 1459.3 |
| 22.5° | 1331.6 | 1328.3 | 1303.7 | 1256.4 | 1210.8 | 1191.8 | 1215.9 | 1221.1 | 1287.0 | 1387.4 | 1502.2 |
| 25° | 1470.3 | 1462.9 | 1430.5 | 1366.9 | 1300.0 | 1250.9 | 1259.2 | 1264.2 | 1325.2 | 1421.2 | 1541.5 |
| 27.5° | 1616.5 | 1609.2 | 1567.9 | 1490.9 | 1401.9 | 1325.4 | 1319.0 | 1323.3 | 1368.5 | 1446.2 | 1570.6 |
| 30° | 1769.5 | 1761.6 | 1723.9 | 1637.8 | 1510.0 | 1402.6 | 1374.8 | 1376.4 | 1399.0 | 1459.7 | 1594.3 |
| 32.5° | 1923.1 | 1915.7 | 1873.5 | 1773.5 | 1627.5 | 1485.5 | 1415.0 | 1412.9 | 1417.3 | 1473.8 | 1621.3 |
| 35° | 2078.9 | 2081.7 | 2032.5 | 1921.7 | 1757.6 | 1577.7 | 1462.6 | 1458.2 | 1448.1 | 1502.7 | 1659.4 |
| 37.5° | 2245.7 | 2243.7 | 2179.9 | 2064.1 | 1893.6 | 1677.7 | 1531.0 | 1530.3 | 1495.8 | 1557.2 | 1719.2 |
| 40° | 2357.1 | 2358.3 | 2319.5 | 2209.9 | 2031.1 | 1788.5 | 1618.7 | 1617.0 | 1571.7 | 1638.9 | 1797.6 |
| 42.5° | 2400.7 | 2408.6 | 2418.6 | 2349.0 | 2174.9 | 1916.9 | 1723.3 | 1720.8 | 1677.7 | 1756.2 | 1889.7 |
| 45° | 2403.9 | 2419.5 | 2481.5 | 2472.7 | 2320.7 | 2063.8 | 1856.9 | 1850.2 | 1819.2 | 1911.9 | 1999.8 |
| 47.5° | 2377.1 | 2393.3 | 2496.3 | 2546.3 | 2451.0 | 2218.9 | 2013.2 | 2008.0 | 1981.2 | 2106.8 | 2118.9 |
| 50° | 2318.8 | 2334.3 | 2465.7 | 2582.2 | 2558.2 | 2368.1 | 2193.2 | 2179.4 | 2165.1 | 2331.8 | 2255.2 |
| 52.5° | 2209.4 | 2239.3 | 2425.0 | 2590.8 | 2622.2 | 2500.6 | 2382.6 | 2373.6 | 2381.4 | 2569.4 | 2391.7 |
| 55° | 1950.5 | 1983.8 | 2319.9 | 2583.6 | 2669.6 | 2611.8 | 2572.0 | 2571.5 | 2612.2 | 2818.6 | 2538.2 |
| 57.5° | 1805.4 | 1829.0 | 2106.0 | 2571.5 | 2725.9 | 2722.3 | 2759.4 | 2764.0 | 2843.4 | 3089.9 | 2691.6 |
| 60° | 1723.5 | 1748.2 | 1997.7 | 2526.5 | 2813.1 | 2865.3 | 2950.8 | 2959.8 | 3078.2 | 3390.3 | 2876.2 |
| 62.5° | 1648.9 | 1676.0 | 1930.4 | 2434.8 | 2915.7 | 3069.6 | 3179.9 | 3188.0 | 3326.9 | 3699.0 | 3054.6 |
| 65° | 1521.5 | 1552.2 | 1832.1 | 2374.5 | 3009.1 | 3336.2 | 3471.2 | 3476.7 | 3612.5 | 4022.5 | 3191.1 |
| 67.5° | 1341.4 | 1369.5 | 1646.5 | 2241.4 | 3078.2 | 3660.0 | 3858.6 | 3861.7 | 3895.7 | 4250.9 | 3260.9 |
| 70° | 1131.1 | 1141.8 | 1382.1 | 1966.5 | 2996.5 | 3962.7 | 4283.1 | 4283.8 | 4154.0 | 4397.2 | 3249.5 |
| 72.5° | 794.7 | 819.9 | 1003.4 | 1488.6 | 2575.1 | 3925.7 | 4503.5 | 4511.6 | 4274.0 | 4323.3 | 2989.8 |
| 75° | 487.4 | 514.0 | 629.4 | 902.1 | 1633.7 | 3087.5 | 4160.9 | 4217.1 | 4048.9 | 3854.7 | 2442.4 |
| 77.5° | 325.9 | 335.9 | 410.7 | 526.0 | 740.1 | 1776.4 | 3198.9 | 3304.8 | 3363.5 | 2811.1 | 1561.9 |
| 80° | 181.7 | 200.8 | 272.3 | 326.8 | 329.2 | 705.8 | 1918.1 | 1942.8 | 1871.4 | 1119.3 | 481.9 |
| 82.5° | 96.2 | 106.8 | 181.7 | 192.0 | 179.6 | 236.3 | 714.9 | 715.6 | 598.0 | 300.1 | 143.2 |
| 85° | 74.5 | 83.4 | 124.5 | 117.2 | 91.8 | 104.8 | 235.9 | 248.7 | 203.4 | 123.0 | 46.7 |
| 87.5° | 37.2 | 46.2 | 84.6 | 74.3 | 36.0 | 30.0 | 84.3 | 90.1 | 80.3 | 48.2 | 17.0 |
| 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° | 1244.0 | 1244.0 | 1244.0 | 1244.0 | 1244.0 | 1244.0 | 1244.0 | 1244.0 | 1244.0 | 1244.0 | 1244.0 |
| 2.5° | 1247.1 | 1249.2 | 1251.8 | 1248.9 | 1248.0 | 1244.2 | 1237.7 | 1236.3 | 1233.0 | 1233.3 | 1235.1 |
| 5° | 1258.0 | 1261.6 | 1260.2 | 1249.2 | 1236.1 | 1217.7 | 1198.7 | 1182.5 | 1171.8 | 1171.0 | 1170.3 |
| 7.5° | 1279.0 | 1281.3 | 1270.2 | 1239.0 | 1202.3 | 1159.9 | 1119.8 | 1084.8 | 1063.6 | 1058.4 | 1057.2 |
| 10° | 1311.8 | 1311.3 | 1280.6 | 1217.7 | 1144.6 | 1068.9 | 1004.6 | 956.0 | 927.6 | 919.3 | 917.1 |
| 12.5° | 1348.5 | 1343.0 | 1284.2 | 1179.2 | 1063.2 | 958.1 | 876.6 | 822.6 | 793.0 | 783.5 | 781.1 |
| 15° | 1386.4 | 1372.8 | 1275.4 | 1121.5 | 963.1 | 838.8 | 753.2 | 703.2 | 687.2 | 682.0 | 681.1 |
| 17.5° | 1421.6 | 1395.5 | 1250.1 | 1043.3 | 849.0 | 719.9 | 653.2 | 633.2 | 637.0 | 643.9 | 644.2 |
| 20° | 1456.2 | 1410.7 | 1209.6 | 944.8 | 728.7 | 622.0 | 599.4 | 614.1 | 632.2 | 646.3 | 648.2 |
| 22.5° | 1490.3 | 1421.4 | 1157.4 | 830.8 | 621.1 | 566.9 | 582.9 | 609.8 | 630.6 | 645.8 | 648.5 |
| 25° | 1518.9 | 1424.1 | 1085.5 | 709.4 | 546.3 | 546.3 | 575.0 | 600.6 | 621.1 | 636.1 | 638.7 |
| 27.5° | 1529.3 | 1406.5 | 984.1 | 596.9 | 508.6 | 536.7 | 564.1 | 585.3 | 602.7 | 618.6 | 621.5 |
| 30° | 1533.4 | 1373.8 | 866.9 | 506.7 | 493.1 | 526.4 | 549.3 | 567.4 | 583.9 | 598.9 | 601.5 |
| 32.5° | 1534.1 | 1334.4 | 742.5 | 455.4 | 482.4 | 515.7 | 531.0 | 546.9 | 564.6 | 570.5 | 571.5 |
| 35° | 1538.6 | 1288.1 | 611.5 | 429.3 | 472.4 | 505.7 | 517.8 | 529.3 | 500.7 | 502.8 | 504.8 |
| 37.5° | 1551.7 | 1242.0 | 501.9 | 414.5 | 466.0 | 500.5 | 515.1 | 473.6 | 451.1 | 445.9 | 445.2 |
| 40° | 1576.3 | 1192.9 | 420.7 | 402.6 | 463.5 | 503.1 | 496.7 | 442.1 | 403.5 | 374.7 | 370.4 |
| 42.5° | 1610.4 | 1140.1 | 368.8 | 394.7 | 465.2 | 515.7 | 471.2 | 411.8 | 347.7 | 329.2 | 326.8 |
| 45° | 1648.7 | 1084.6 | 340.7 | 389.2 | 471.0 | 525.5 | 466.0 | 371.6 | 321.8 | 307.8 | 306.6 |
| 47.5° | 1685.8 | 1016.7 | 326.1 | 386.9 | 478.8 | 517.7 | 443.8 | 359.2 | 309.5 | 302.1 | 302.8 |
| 50° | 1728.5 | 955.5 | 317.3 | 384.3 | 485.7 | 512.6 | 418.8 | 352.8 | 304.7 | 313.7 | 323.2 |
| 52.5° | 1764.4 | 892.1 | 309.5 | 379.0 | 488.3 | 503.8 | 412.3 | 354.0 | 304.7 | 322.0 | 331.1 |
| 55° | 1807.1 | 844.3 | 300.4 | 368.1 | 483.4 | 478.8 | 407.8 | 361.2 | 308.2 | 297.3 | 298.3 |
| 57.5° | 1862.2 | 828.5 | 290.4 | 350.9 | 466.7 | 442.4 | 405.7 | 368.1 | 306.1 | 299.2 | 301.5 |
| 60° | 1938.4 | 845.2 | 286.4 | 328.5 | 440.7 | 413.8 | 405.9 | 364.4 | 291.1 | 279.2 | 279.5 |
| 62.5° | 2011.0 | 863.7 | 286.1 | 314.4 | 408.8 | 388.3 | 400.5 | 352.8 | 283.5 | 276.6 | 279.2 |
| 65° | 2034.8 | 844.9 | 274.6 | 298.7 | 372.8 | 357.8 | 390.4 | 340.4 | 277.8 | 267.3 | 266.8 |
| 67.5° | 2002.9 | 786.6 | 251.5 | 273.2 | 331.6 | 322.3 | 377.4 | 325.7 | 268.8 | 260.1 | 258.7 |
| 70° | 1908.1 | 656.3 | 223.0 | 239.7 | 284.7 | 282.3 | 356.6 | 308.5 | 256.5 | 249.2 | 242.9 |
| 72.5° | 1652.9 | 467.6 | 188.0 | 199.4 | 231.8 | 239.4 | 328.0 | 286.1 | 239.4 | 223.5 | 213.9 |
| 75° | 1357.5 | 346.2 | 154.4 | 156.8 | 176.1 | 196.7 | 288.7 | 259.9 | 219.2 | 192.0 | 184.6 |
| 77.5° | 831.4 | 211.7 | 123.0 | 123.9 | 126.2 | 157.0 | 237.7 | 230.6 | 193.4 | 160.0 | 154.8 |
| 80° | 269.2 | 115.5 | 88.9 | 93.3 | 86.3 | 115.0 | 183.9 | 196.3 | 166.0 | 133.9 | 128.2 |
| 82.5° | 102.5 | 67.4 | 60.0 | 63.2 | 59.8 | 77.2 | 134.1 | 157.2 | 136.0 | 110.0 | 89.6 |
| 85° | 49.6 | 38.1 | 35.5 | 39.8 | 36.9 | 39.5 | 85.8 | 115.8 | 103.1 | 71.7 | 66.7 |
| 87.5° | 17.6 | 17.0 | 13.6 | 18.4 | 15.7 | 14.1 | 26.2 | 58.4 | 68.1 | 49.3 | 44.1 |
| 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)