

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: P450460

Luminaire Tested: **GALN-SA1B-730-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5197 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

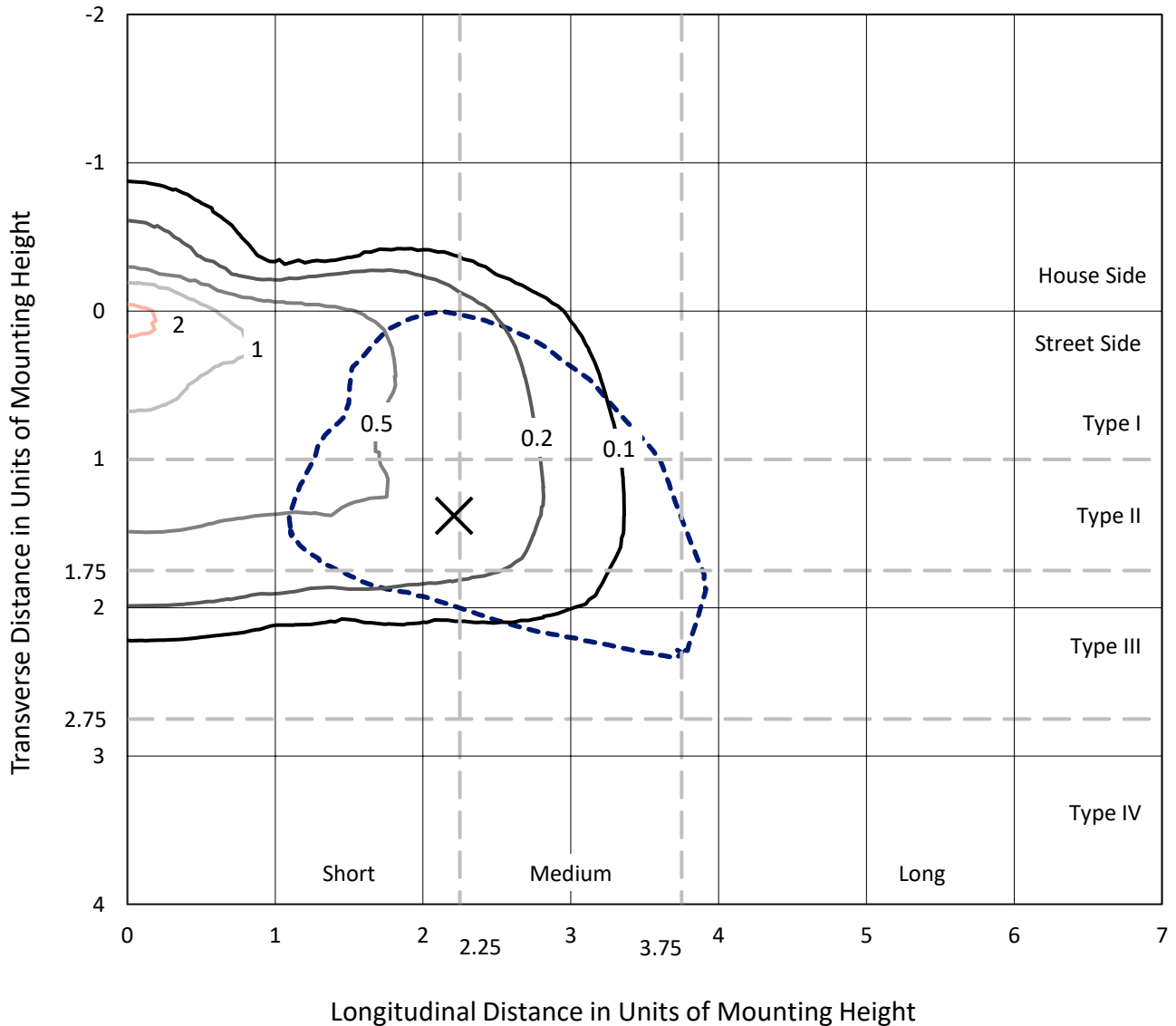
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

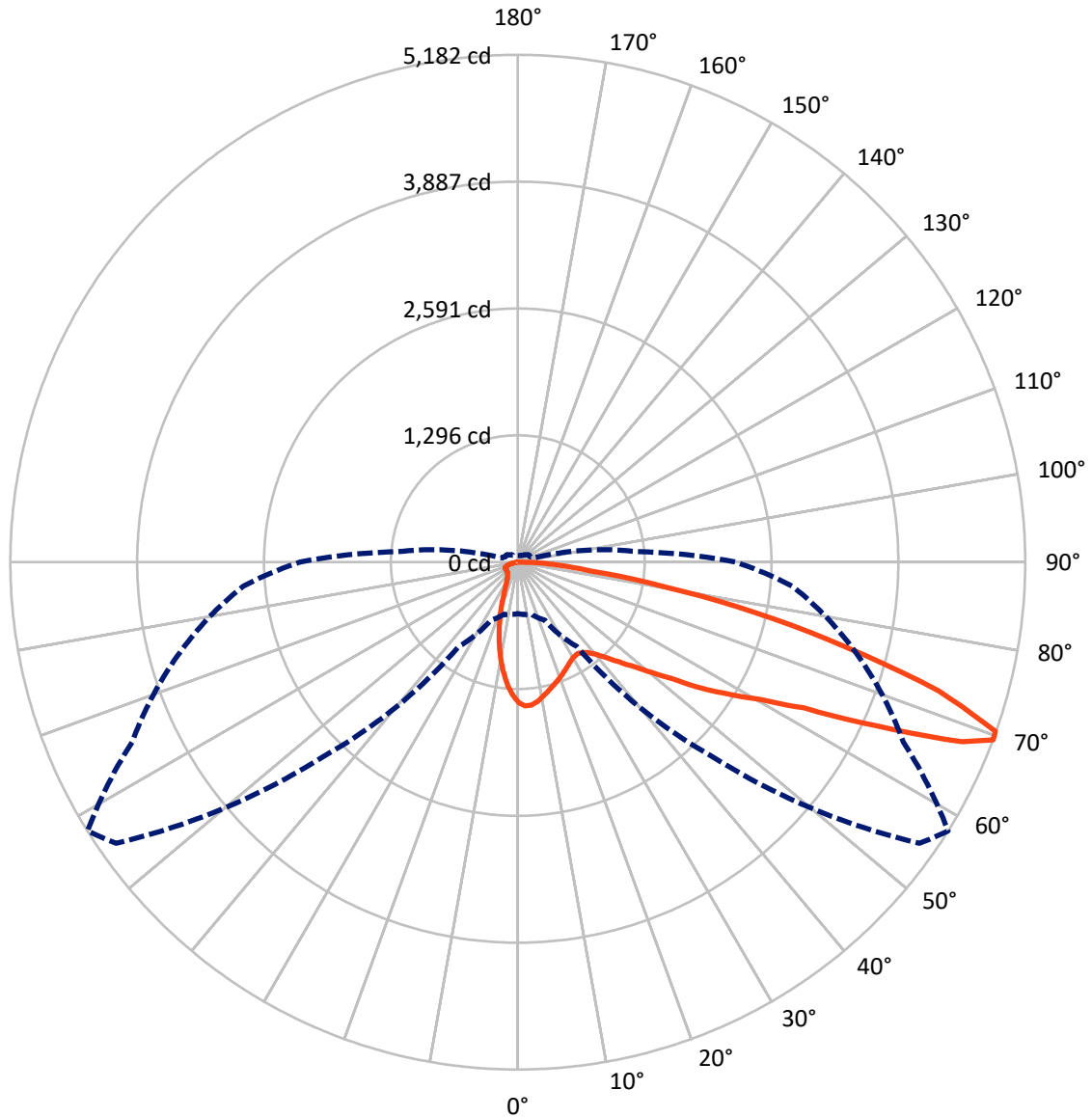
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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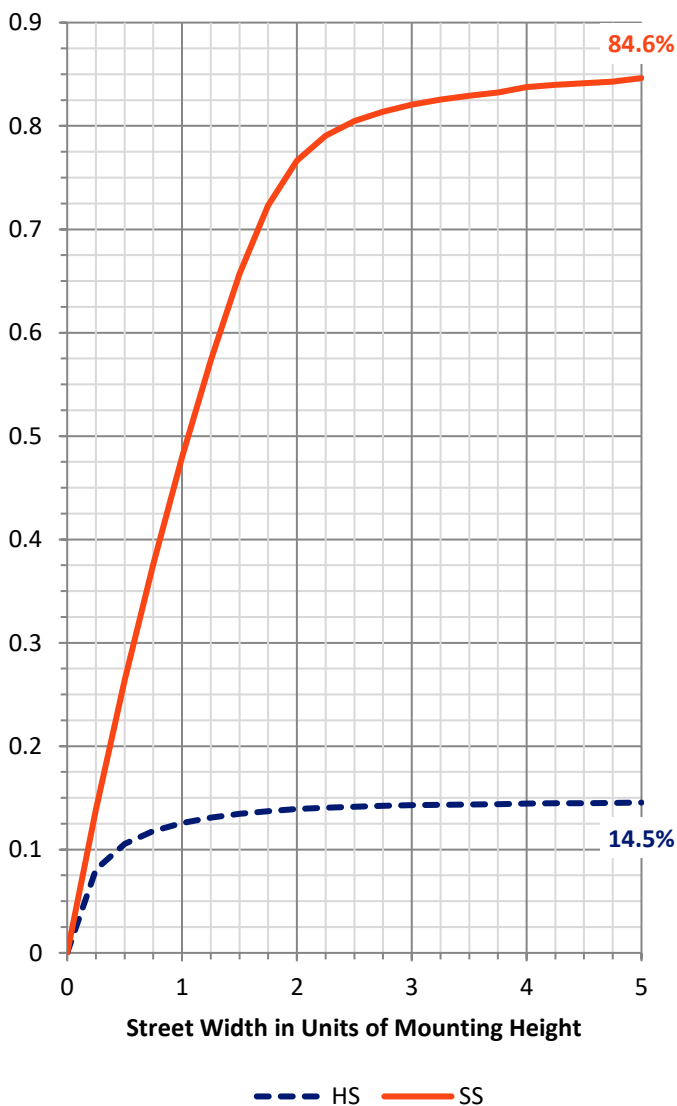
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 761.6 | 0.0 | 761.6 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 4435.4 | 0.0 | 4435.4 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 5197.0 | 0.0 | 5197.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 122.0 | 2.3 |
| 10°-20° | 267.8 | 5.2 |
| 20°-30° | 346.0 | 6.7 |
| 30°-40° | 449.4 | 8.6 |
| 40°-50° | 653.4 | 12.6 |
| 50°-60° | 1042.6 | 20.1 |
| 60°-70° | 1392.8 | 26.8 |
| 70°-80° | 802.9 | 15.4 |
| 80°-90° | 120.2 | 2.3 |
| 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° | 5197.0 | 100.0 |
| 0°-180° | 5197.0 | 100.0 |



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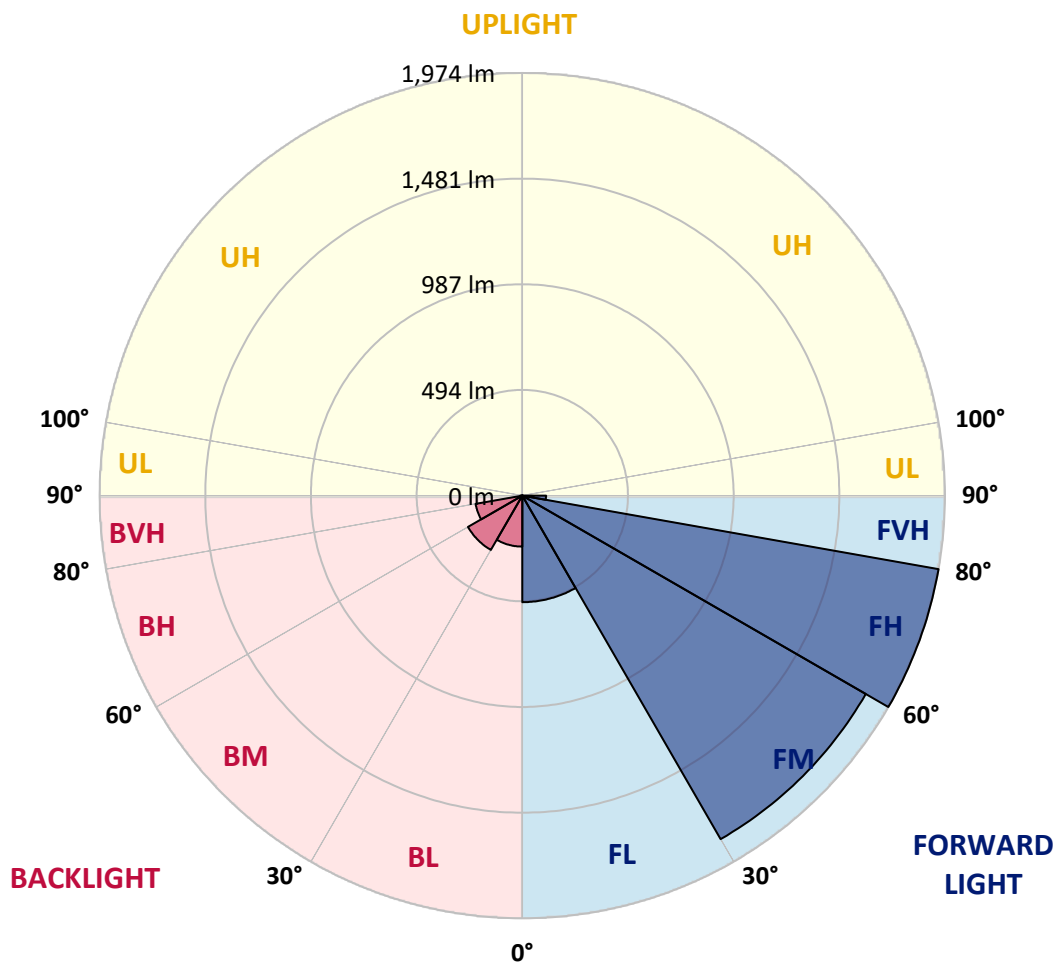
CATALOG NUMBER: GALN-SA1B-730-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 497.7 | 9.6 | | | |
| FM (30°-60°) | 1852.5 | 35.6 | | | |
| FH (60°-80°) | 1974.1 | 38.0 | | | G2/5000 |
| FVH (80°-90°) | 111.0 | 2.1 | | | G2/225 |
| BL (0°-30°) | 238.1 | 4.6 | B1/500 | | |
| BM (30°-60°) | 292.9 | 5.6 | B1/1000 | | |
| BH (60°-80°) | 221.5 | 4.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 9.2 | 0.2 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1436.1 | 1436.1 | 1436.1 | 1436.1 | 1436.1 | 1436.1 | 1436.1 | 1436.1 | 1436.1 | 1436.1 | 1436.1 |
| 2.5° | 1489.5 | 1493.5 | 1492.4 | 1490.9 | 1488.6 | 1482.2 | 1471.8 | 1470.1 | 1463.4 | 1449.2 | 1431.5 |
| 5° | 1466.6 | 1470.1 | 1470.3 | 1472.4 | 1475.3 | 1474.1 | 1466.6 | 1465.7 | 1455.9 | 1436.7 | 1407.2 |
| 7.5° | 1388.0 | 1392.7 | 1402.8 | 1414.1 | 1424.3 | 1433.8 | 1436.1 | 1437.6 | 1431.5 | 1409.5 | 1370.1 |
| 10° | 1299.6 | 1304.3 | 1308.9 | 1325.7 | 1350.6 | 1374.4 | 1394.1 | 1396.7 | 1398.2 | 1377.9 | 1329.8 |
| 12.5° | 1201.7 | 1211.2 | 1221.1 | 1246.0 | 1279.3 | 1316.7 | 1351.5 | 1357.0 | 1366.9 | 1351.5 | 1295.0 |
| 15° | 1118.5 | 1128.3 | 1142.5 | 1164.9 | 1205.1 | 1259.1 | 1308.0 | 1317.0 | 1336.4 | 1328.6 | 1262.5 |
| 17.5° | 1060.8 | 1064.3 | 1074.1 | 1099.6 | 1143.1 | 1199.9 | 1265.4 | 1283.4 | 1314.4 | 1312.4 | 1234.7 |
| 20° | 1015.3 | 1019.6 | 1025.7 | 1041.4 | 1086.6 | 1146.6 | 1225.7 | 1248.9 | 1290.9 | 1297.9 | 1207.2 |
| 22.5° | 996.2 | 999.4 | 998.5 | 1006.9 | 1037.6 | 1097.9 | 1185.4 | 1213.0 | 1270.1 | 1288.0 | 1181.7 |
| 25° | 997.3 | 1000.2 | 995.9 | 993.9 | 1012.1 | 1055.0 | 1143.4 | 1178.5 | 1253.3 | 1281.4 | 1158.5 |
| 27.5° | 1016.8 | 1018.8 | 1010.7 | 1002.5 | 1004.0 | 1028.3 | 1108.6 | 1147.5 | 1239.1 | 1284.3 | 1139.1 |
| 30° | 1042.8 | 1046.6 | 1041.4 | 1031.5 | 1020.8 | 1022.0 | 1086.3 | 1124.6 | 1232.4 | 1294.4 | 1129.8 |
| 32.5° | 1076.5 | 1079.9 | 1077.6 | 1069.8 | 1055.9 | 1040.5 | 1080.8 | 1116.2 | 1233.0 | 1315.0 | 1127.8 |
| 35° | 1111.8 | 1118.8 | 1122.5 | 1122.0 | 1110.7 | 1084.0 | 1102.5 | 1131.8 | 1246.9 | 1349.5 | 1139.6 |
| 37.5° | 1151.8 | 1157.6 | 1173.8 | 1184.3 | 1173.8 | 1142.8 | 1151.5 | 1171.8 | 1277.6 | 1399.3 | 1165.7 |
| 40° | 1190.7 | 1199.3 | 1223.1 | 1255.6 | 1251.5 | 1224.3 | 1226.3 | 1239.6 | 1331.8 | 1473.5 | 1216.7 |
| 42.5° | 1231.2 | 1241.7 | 1283.1 | 1331.2 | 1340.8 | 1319.6 | 1325.1 | 1337.0 | 1408.9 | 1576.4 | 1304.3 |
| 45° | 1283.4 | 1295.9 | 1346.9 | 1406.9 | 1444.6 | 1431.5 | 1447.2 | 1453.0 | 1512.1 | 1710.3 | 1419.6 |
| 47.5° | 1350.6 | 1365.1 | 1428.0 | 1502.8 | 1556.1 | 1568.0 | 1595.3 | 1591.8 | 1639.9 | 1868.9 | 1569.2 |
| 50° | 1464.0 | 1472.1 | 1531.5 | 1607.7 | 1681.1 | 1734.7 | 1764.2 | 1769.7 | 1798.4 | 2023.1 | 1736.4 |
| 52.5° | 1598.7 | 1606.0 | 1648.9 | 1715.6 | 1807.4 | 1921.0 | 1994.1 | 1976.1 | 1983.1 | 2210.9 | 1932.1 |
| 55° | 1750.3 | 1762.5 | 1789.7 | 1834.1 | 1953.2 | 2120.5 | 2267.1 | 2271.5 | 2194.4 | 2390.6 | 2119.6 |
| 57.5° | 1867.7 | 1888.3 | 1935.0 | 1998.1 | 2149.1 | 2342.2 | 2539.3 | 2542.2 | 2443.6 | 2582.5 | 2326.5 |
| 60° | 1808.6 | 1832.9 | 1939.6 | 2093.5 | 2406.2 | 2729.1 | 2864.5 | 2847.9 | 2686.2 | 2801.0 | 2579.0 |
| 62.5° | 1553.5 | 1557.9 | 1712.9 | 1953.5 | 2485.4 | 3246.8 | 3348.5 | 3278.6 | 3010.0 | 3078.1 | 2835.5 |
| 65° | 1005.4 | 1033.9 | 1156.7 | 1493.8 | 2225.4 | 3534.0 | 4196.6 | 4035.1 | 3463.9 | 3392.6 | 3050.3 |
| 67.5° | 634.7 | 627.5 | 678.5 | 853.0 | 1530.6 | 3281.0 | 4920.3 | 4894.8 | 4057.4 | 3591.1 | 2999.0 |
| 69° | 526.3 | 534.5 | 551.9 | 653.9 | 1053.3 | 2801.3 | 5005.8 | 5182.0 | 4345.2 | 3575.4 | 2812.6 |
| 70° | 477.4 | 481.1 | 499.4 | 579.7 | 812.7 | 2346.2 | 4865.5 | 5174.2 | 4458.3 | 3509.9 | 2677.5 |
| 72.5° | 378.8 | 378.5 | 409.8 | 482.3 | 607.5 | 1339.3 | 3995.1 | 4492.2 | 4331.9 | 3205.0 | 2212.3 |
| 75° | 287.8 | 292.4 | 326.9 | 408.1 | 559.7 | 731.8 | 2788.0 | 3459.5 | 3459.8 | 2531.4 | 1380.5 |
| 77.5° | 207.5 | 210.4 | 250.7 | 342.6 | 527.2 | 593.3 | 1857.0 | 2481.3 | 2332.6 | 1159.9 | 433.9 |
| 80° | 135.9 | 137.7 | 168.4 | 271.3 | 475.3 | 559.7 | 1101.1 | 1518.8 | 1100.2 | 307.8 | 143.5 |
| 82.5° | 74.5 | 83.2 | 102.9 | 175.6 | 381.4 | 517.1 | 669.2 | 768.6 | 412.7 | 137.1 | 74.8 |
| 85° | 37.4 | 39.7 | 58.0 | 102.6 | 249.3 | 427.8 | 466.1 | 440.8 | 213.0 | 68.1 | 38.8 |
| 87.5° | 11.0 | 13.9 | 24.1 | 39.7 | 101.2 | 222.9 | 259.4 | 232.7 | 82.0 | 24.6 | 8.1 |
| 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° | 1436.1 | 1436.1 | 1436.1 | 1436.1 | 1436.1 | 1436.1 | 1436.1 | 1436.1 | 1436.1 | 1436.1 | 1436.1 |
| 2.5° | 1424.3 | 1419.0 | 1395.9 | 1375.0 | 1355.9 | 1335.6 | 1318.5 | 1303.4 | 1304.8 | 1305.1 | 1289.8 |
| 5° | 1391.8 | 1379.9 | 1335.9 | 1294.7 | 1259.9 | 1215.9 | 1178.2 | 1153.8 | 1141.7 | 1125.4 | 1131.2 |
| 7.5° | 1347.7 | 1324.8 | 1263.7 | 1195.3 | 1131.2 | 1074.1 | 1012.1 | 969.5 | 942.3 | 915.9 | 919.4 |
| 10° | 1302.2 | 1265.4 | 1176.5 | 1086.0 | 1003.1 | 911.8 | 832.7 | 764.9 | 714.5 | 695.6 | 683.1 |
| 12.5° | 1255.6 | 1207.2 | 1094.1 | 973.9 | 859.4 | 750.1 | 637.9 | 565.2 | 509.5 | 480.0 | 483.7 |
| 15° | 1213.0 | 1154.1 | 1008.3 | 861.7 | 713.0 | 582.9 | 471.0 | 401.7 | 362.9 | 354.8 | 359.4 |
| 17.5° | 1173.6 | 1096.5 | 928.1 | 752.7 | 579.1 | 437.1 | 353.9 | 314.8 | 299.1 | 294.8 | 294.5 |
| 20° | 1133.0 | 1047.5 | 837.9 | 636.2 | 451.3 | 338.8 | 290.4 | 272.2 | 269.3 | 271.0 | 271.3 |
| 22.5° | 1091.8 | 986.9 | 745.2 | 520.5 | 359.4 | 277.1 | 253.9 | 249.0 | 251.3 | 255.3 | 255.9 |
| 25° | 1053.9 | 933.6 | 655.9 | 419.1 | 286.9 | 243.5 | 232.2 | 232.2 | 237.4 | 243.5 | 243.8 |
| 27.5° | 1022.5 | 882.0 | 566.9 | 332.7 | 240.3 | 219.1 | 215.3 | 217.4 | 224.6 | 229.3 | 229.6 |
| 30° | 996.8 | 833.9 | 482.9 | 266.7 | 211.3 | 199.7 | 198.8 | 202.3 | 207.5 | 211.9 | 212.2 |
| 32.5° | 977.3 | 791.5 | 404.3 | 224.0 | 191.3 | 184.9 | 184.6 | 187.2 | 190.1 | 191.3 | 192.5 |
| 35° | 969.8 | 756.5 | 332.4 | 197.1 | 178.0 | 173.9 | 173.9 | 173.6 | 174.8 | 175.4 | 175.9 |
| 37.5° | 975.9 | 729.5 | 276.8 | 179.7 | 168.1 | 165.2 | 163.5 | 161.7 | 161.1 | 161.1 | 161.4 |
| 40° | 1001.7 | 715.3 | 235.3 | 168.4 | 161.1 | 156.8 | 153.6 | 151.6 | 149.6 | 150.1 | 150.7 |
| 42.5° | 1056.5 | 717.9 | 207.2 | 160.9 | 155.1 | 149.0 | 144.3 | 142.0 | 140.6 | 142.3 | 142.0 |
| 45° | 1143.7 | 744.0 | 189.3 | 155.6 | 149.0 | 141.2 | 136.8 | 134.5 | 134.5 | 137.1 | 138.0 |
| 47.5° | 1265.7 | 793.9 | 179.7 | 151.6 | 144.3 | 135.1 | 130.7 | 129.0 | 129.6 | 133.9 | 134.2 |
| 50° | 1414.7 | 880.5 | 178.0 | 149.6 | 142.0 | 130.7 | 125.8 | 124.1 | 125.5 | 130.1 | 130.7 |
| 52.5° | 1579.0 | 992.1 | 186.4 | 149.8 | 140.0 | 128.1 | 121.7 | 119.1 | 120.6 | 124.3 | 125.5 |
| 55° | 1773.8 | 1131.8 | 208.1 | 151.0 | 137.1 | 126.7 | 118.8 | 113.0 | 114.8 | 117.4 | 117.7 |
| 57.5° | 1972.6 | 1308.0 | 246.4 | 151.3 | 134.8 | 124.1 | 113.9 | 106.4 | 106.4 | 108.1 | 109.0 |
| 60° | 2215.5 | 1499.9 | 296.8 | 151.6 | 135.1 | 120.3 | 107.2 | 98.8 | 97.7 | 98.5 | 98.8 |
| 62.5° | 2456.7 | 1660.5 | 305.2 | 150.7 | 138.0 | 116.5 | 100.0 | 91.3 | 89.3 | 89.0 | 88.4 |
| 65° | 2563.0 | 1630.6 | 250.1 | 146.7 | 141.2 | 114.2 | 94.2 | 84.1 | 80.6 | 79.4 | 79.4 |
| 67.5° | 2389.7 | 1379.3 | 188.1 | 141.2 | 139.1 | 111.9 | 88.7 | 78.0 | 73.9 | 71.6 | 71.6 |
| 69° | 2226.8 | 1226.9 | 169.0 | 137.4 | 133.9 | 108.1 | 85.2 | 74.8 | 69.9 | 67.2 | 66.4 |
| 70° | 2101.0 | 1122.0 | 160.9 | 134.2 | 129.0 | 103.8 | 82.6 | 72.5 | 67.0 | 64.1 | 63.5 |
| 72.5° | 1676.7 | 880.2 | 140.9 | 122.0 | 109.8 | 87.2 | 73.3 | 65.2 | 60.0 | 56.8 | 55.9 |
| 75° | 966.3 | 477.1 | 116.8 | 106.1 | 88.4 | 67.8 | 62.0 | 56.8 | 52.8 | 49.9 | 49.0 |
| 77.5° | 297.4 | 184.3 | 84.6 | 83.8 | 64.9 | 52.5 | 49.6 | 47.5 | 44.6 | 41.4 | 40.9 |
| 80° | 125.2 | 93.9 | 57.4 | 56.5 | 43.2 | 36.5 | 35.7 | 35.4 | 34.2 | 31.6 | 30.7 |
| 82.5° | 68.7 | 53.0 | 40.0 | 34.8 | 26.1 | 21.2 | 22.0 | 22.3 | 21.4 | 18.8 | 17.1 |
| 85° | 33.6 | 29.0 | 19.4 | 15.7 | 11.9 | 7.5 | 7.2 | 8.7 | 8.1 | 5.8 | 6.4 |
| 87.5° | 6.7 | 8.1 | 5.2 | 2.3 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)