

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: P646725

Luminaire Tested: **GALN-SA1C-835-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-835-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4608 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

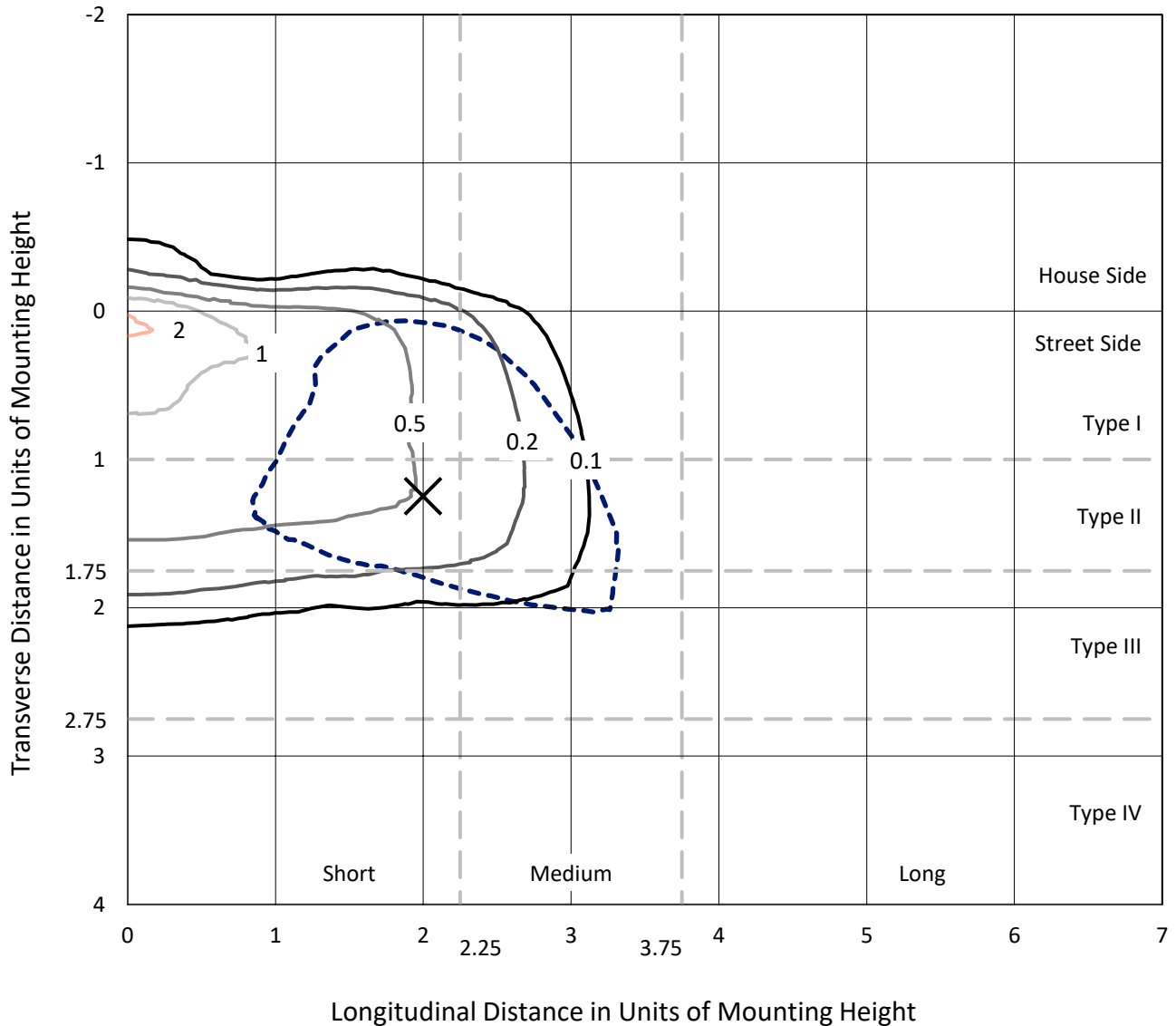
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

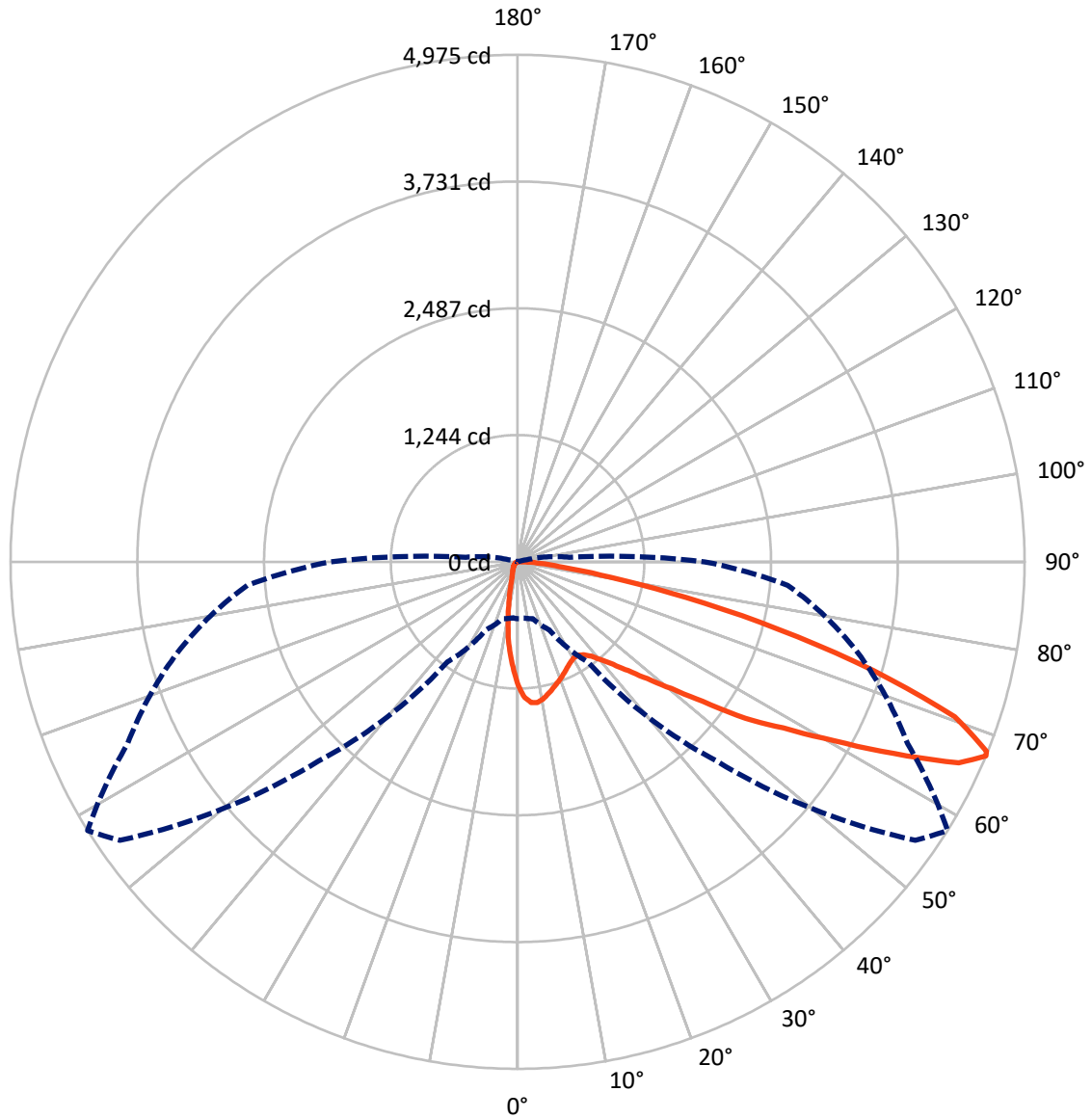
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 332.5 | 0.0 | 332.5 |
| | % Fixture | 7.2 | 0.0 | 7.2 |
| Street Side | Lumens | 4275.4 | 0.0 | 4275.4 |
| | % Fixture | 92.8 | 0.0 | 92.8 |
| Total | Lumens | 4608.0 | 0.0 | 4608.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 99.1 | 2.2 |
| 10°-20° | 214.1 | 4.6 |
| 20°-30° | 290.1 | 6.3 |
| 30°-40° | 402.3 | 8.7 |
| 40°-50° | 641.7 | 13.9 |
| 50°-60° | 1109.2 | 24.1 |
| 60°-70° | 1267.1 | 27.5 |
| 70°-80° | 528.3 | 11.5 |
| 80°-90° | 56.0 | 1.2 |
| 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° | 4608.0 | 100.0 |
| 0°-180° | 4608.0 | 100.0 |

Coefficient of Utilization



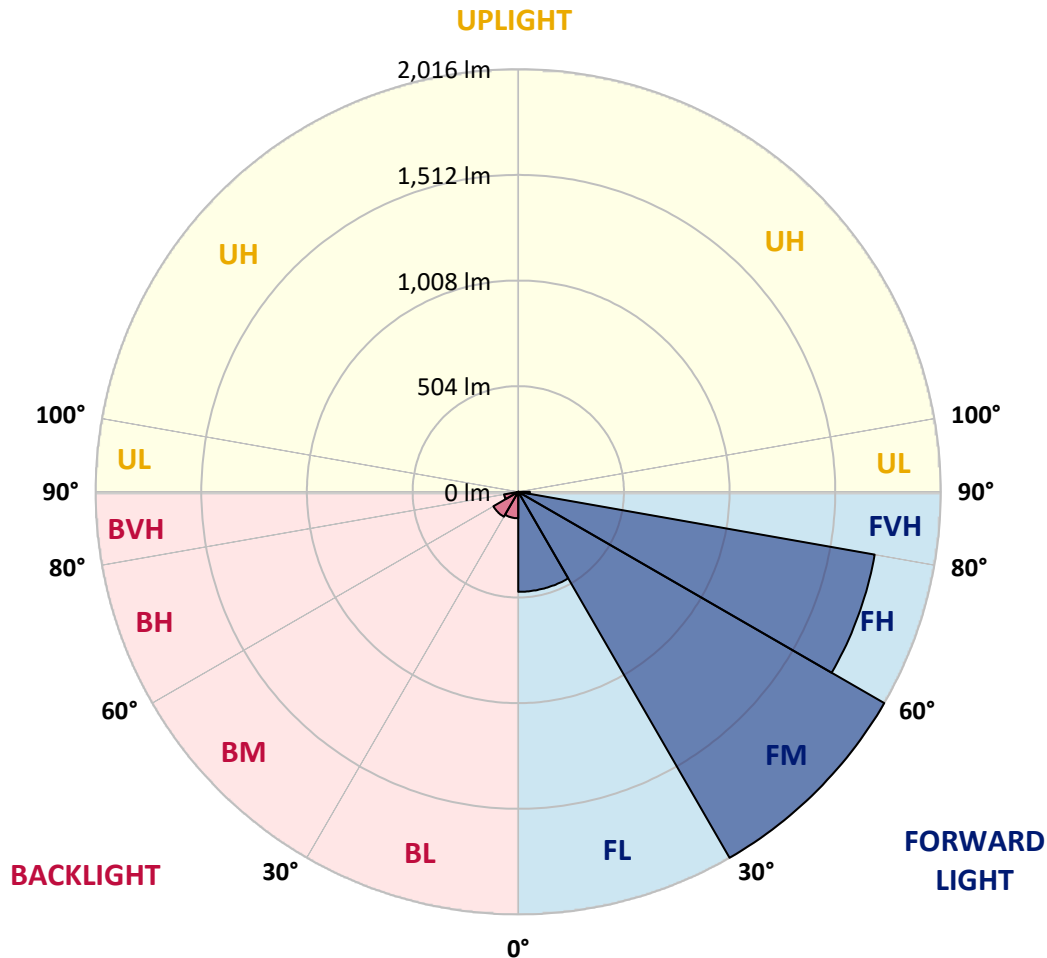
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 477.0 | 10.4 | | | |
| FM (30°-60°) | 2016.2 | 43.8 | | | |
| FH (60°-80°) | 1726.6 | 37.5 | | | G1/1800 |
| FVH (80°-90°) | 55.6 | 1.2 | | | G1/100 |
| BL (0°-30°) | 126.3 | 2.7 | B1/500 | | |
| BM (30°-60°) | 137.1 | 3.0 | B0/220 | | |
| BH (60°-80°) | 68.7 | 1.5 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.4 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1221.6 | 1221.6 | 1221.6 | 1221.6 | 1221.6 | 1221.6 | 1221.6 | 1221.6 | 1221.6 | 1221.6 | 1221.6 |
| 2.5° | 1417.7 | 1419.8 | 1411.8 | 1405.3 | 1388.7 | 1370.9 | 1347.2 | 1334.5 | 1313.0 | 1275.7 | 1234.5 |
| 5° | 1450.9 | 1453.7 | 1452.5 | 1450.9 | 1444.5 | 1427.3 | 1397.0 | 1386.0 | 1354.3 | 1293.6 | 1219.1 |
| 7.5° | 1377.1 | 1387.2 | 1388.4 | 1400.4 | 1411.8 | 1413.4 | 1402.0 | 1393.7 | 1364.4 | 1293.3 | 1191.6 |
| 10° | 1279.1 | 1285.9 | 1295.7 | 1309.6 | 1337.0 | 1359.8 | 1370.9 | 1369.6 | 1352.7 | 1283.7 | 1159.6 |
| 12.5° | 1180.3 | 1184.0 | 1199.1 | 1222.7 | 1256.3 | 1295.1 | 1324.7 | 1330.6 | 1330.9 | 1272.3 | 1132.8 |
| 15° | 1095.3 | 1093.8 | 1105.4 | 1132.8 | 1180.0 | 1228.6 | 1281.5 | 1290.8 | 1305.6 | 1261.3 | 1107.9 |
| 17.5° | 1022.6 | 1030.6 | 1032.5 | 1062.6 | 1106.1 | 1169.2 | 1236.6 | 1253.0 | 1282.5 | 1251.7 | 1087.3 |
| 20° | 977.7 | 982.0 | 986.0 | 1002.9 | 1042.0 | 1108.5 | 1194.5 | 1216.9 | 1260.9 | 1243.1 | 1064.2 |
| 22.5° | 964.4 | 967.2 | 963.8 | 969.0 | 996.8 | 1055.9 | 1148.6 | 1178.4 | 1240.3 | 1235.1 | 1045.4 |
| 25° | 974.6 | 977.3 | 969.4 | 963.2 | 972.7 | 1013.0 | 1104.2 | 1140.5 | 1223.7 | 1233.5 | 1031.2 |
| 27.5° | 999.2 | 1004.4 | 993.4 | 982.3 | 976.7 | 989.9 | 1069.4 | 1111.6 | 1212.3 | 1240.9 | 1024.8 |
| 30° | 1037.7 | 1040.8 | 1032.5 | 1018.9 | 1006.3 | 993.1 | 1051.3 | 1091.6 | 1209.2 | 1258.2 | 1024.2 |
| 32.5° | 1079.6 | 1086.0 | 1081.4 | 1072.5 | 1056.2 | 1024.8 | 1056.5 | 1092.2 | 1216.6 | 1283.1 | 1031.8 |
| 35° | 1131.3 | 1138.7 | 1143.0 | 1141.1 | 1120.2 | 1081.1 | 1089.7 | 1119.9 | 1236.3 | 1329.0 | 1052.8 |
| 37.5° | 1182.1 | 1188.6 | 1212.9 | 1221.2 | 1202.8 | 1165.8 | 1154.4 | 1174.4 | 1279.7 | 1389.0 | 1090.6 |
| 40° | 1240.3 | 1249.0 | 1283.1 | 1314.8 | 1305.9 | 1267.1 | 1246.1 | 1262.8 | 1346.2 | 1479.6 | 1162.4 |
| 42.5° | 1296.0 | 1311.4 | 1363.5 | 1419.5 | 1427.8 | 1384.4 | 1370.6 | 1376.1 | 1444.8 | 1609.8 | 1262.5 |
| 45° | 1375.2 | 1389.7 | 1456.8 | 1532.8 | 1572.0 | 1538.0 | 1523.9 | 1523.0 | 1579.9 | 1793.0 | 1424.7 |
| 47.5° | 1489.4 | 1502.3 | 1581.5 | 1656.6 | 1726.2 | 1730.8 | 1704.0 | 1713.3 | 1749.9 | 2007.4 | 1623.7 |
| 50° | 1629.5 | 1660.0 | 1712.0 | 1790.3 | 1883.3 | 1958.4 | 1966.7 | 1954.4 | 1985.8 | 2255.5 | 1862.6 |
| 52.5° | 1833.1 | 1844.7 | 1892.5 | 1956.9 | 2065.9 | 2193.3 | 2292.2 | 2275.2 | 2265.4 | 2492.0 | 2104.0 |
| 55° | 1984.8 | 2000.6 | 2074.8 | 2163.1 | 2322.9 | 2491.1 | 2705.4 | 2711.2 | 2586.9 | 2719.3 | 2340.2 |
| 57.5° | 1939.0 | 1963.0 | 2075.4 | 2253.1 | 2604.4 | 2911.7 | 3071.2 | 3075.2 | 2884.3 | 2940.0 | 2606.8 |
| 60° | 1703.4 | 1714.8 | 1875.8 | 2112.9 | 2628.5 | 3367.4 | 3590.1 | 3557.7 | 3187.0 | 3187.0 | 2842.4 |
| 62.5° | 1208.0 | 1225.9 | 1356.4 | 1705.3 | 2373.7 | 3525.7 | 4211.4 | 4144.7 | 3603.9 | 3423.2 | 2982.8 |
| 65° | 772.0 | 754.7 | 841.3 | 1076.5 | 1768.4 | 3292.0 | 4752.5 | 4756.5 | 3996.2 | 3517.7 | 2906.2 |
| 67° | 559.2 | 552.4 | 577.4 | 735.9 | 1199.1 | 2767.3 | 4763.9 | 4974.8 | 4221.6 | 3458.0 | 2661.0 |
| 67.5° | 511.5 | 516.7 | 534.9 | 663.9 | 1089.5 | 2518.2 | 4712.1 | 4961.9 | 4272.4 | 3421.9 | 2572.4 |
| 70° | 387.7 | 378.7 | 398.5 | 469.6 | 653.1 | 1588.6 | 4053.5 | 4550.8 | 4209.3 | 3064.4 | 2055.4 |
| 72.5° | 285.2 | 284.2 | 311.6 | 384.0 | 502.8 | 846.2 | 3042.9 | 3648.9 | 3438.9 | 2333.4 | 1294.2 |
| 75° | 192.5 | 201.1 | 244.8 | 320.9 | 455.7 | 548.7 | 2074.5 | 2647.2 | 2387.3 | 1325.0 | 529.0 |
| 77.5° | 109.6 | 110.2 | 157.6 | 257.8 | 409.2 | 441.5 | 1229.2 | 1686.5 | 1263.7 | 440.7 | 157.1 |
| 80° | 47.4 | 52.1 | 78.2 | 187.2 | 339.4 | 391.0 | 704.9 | 926.8 | 511.1 | 93.3 | 50.8 |
| 82.5° | 17.5 | 20.6 | 34.5 | 115.2 | 247.6 | 322.0 | 425.9 | 442.5 | 173.4 | 33.0 | 31.7 |
| 85° | 0.0 | 0.6 | 12.6 | 53.9 | 129.0 | 143.8 | 284.5 | 262.4 | 76.7 | 15.7 | 20.6 |
| 87.5° | 0.0 | 0.0 | 0.0 | 5.6 | 16.9 | 53.6 | 88.4 | 98.5 | 18.5 | 5.6 | 4.9 |
| 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° | 1221.6 | 1221.6 | 1221.6 | 1221.6 | 1221.6 | 1221.6 | 1221.6 | 1221.6 | 1221.6 | 1221.6 | 1221.6 |
| 2.5° | 1212.3 | 1192.3 | 1142.1 | 1091.9 | 1054.6 | 1023.5 | 976.7 | 951.2 | 937.6 | 917.6 | 918.9 |
| 5° | 1181.8 | 1141.1 | 1052.8 | 961.4 | 887.5 | 815.4 | 729.1 | 694.4 | 665.1 | 648.5 | 637.4 |
| 7.5° | 1136.5 | 1076.5 | 945.6 | 823.7 | 710.1 | 584.1 | 489.6 | 426.5 | 384.0 | 368.2 | 353.2 |
| 10° | 1087.0 | 1007.3 | 836.9 | 667.9 | 510.2 | 380.3 | 300.2 | 242.3 | 221.7 | 202.6 | 204.4 |
| 12.5° | 1041.1 | 944.1 | 737.2 | 527.2 | 357.5 | 241.7 | 188.5 | 164.7 | 157.9 | 155.8 | 155.8 |
| 15° | 1003.5 | 883.8 | 630.0 | 396.3 | 245.1 | 173.7 | 150.9 | 144.4 | 142.0 | 141.3 | 141.3 |
| 17.5° | 963.5 | 826.5 | 533.3 | 292.8 | 178.3 | 145.3 | 137.7 | 133.3 | 132.4 | 131.8 | 131.8 |
| 20° | 927.8 | 768.9 | 441.5 | 218.0 | 144.1 | 130.8 | 125.9 | 123.2 | 122.2 | 121.6 | 121.9 |
| 22.5° | 893.9 | 717.8 | 355.3 | 164.7 | 126.8 | 119.2 | 114.2 | 111.5 | 109.6 | 108.1 | 108.4 |
| 25° | 863.7 | 668.5 | 285.7 | 134.8 | 114.2 | 107.4 | 102.6 | 98.5 | 94.5 | 92.7 | 92.4 |
| 27.5° | 842.5 | 625.4 | 222.6 | 115.5 | 102.8 | 95.4 | 89.3 | 84.4 | 79.2 | 76.3 | 75.7 |
| 30° | 824.9 | 581.7 | 176.1 | 101.9 | 91.5 | 84.4 | 76.7 | 69.6 | 64.0 | 61.3 | 60.1 |
| 32.5° | 813.5 | 540.1 | 138.9 | 90.8 | 81.9 | 73.3 | 64.7 | 57.6 | 51.4 | 48.6 | 48.0 |
| 35° | 811.7 | 505.3 | 113.6 | 81.6 | 73.3 | 64.0 | 55.1 | 47.4 | 42.2 | 39.4 | 38.8 |
| 37.5° | 824.9 | 478.5 | 95.1 | 74.2 | 66.2 | 56.1 | 46.2 | 39.1 | 34.5 | 32.3 | 32.0 |
| 40° | 860.4 | 461.6 | 82.5 | 68.0 | 59.7 | 48.6 | 39.4 | 33.3 | 28.7 | 26.5 | 26.5 |
| 42.5° | 927.8 | 462.2 | 74.2 | 62.2 | 53.2 | 41.6 | 33.6 | 27.7 | 23.7 | 21.8 | 21.2 |
| 45° | 1033.1 | 483.1 | 67.1 | 56.4 | 47.1 | 36.0 | 28.7 | 22.8 | 18.8 | 17.2 | 17.2 |
| 47.5° | 1174.1 | 524.7 | 61.0 | 50.5 | 41.6 | 30.8 | 24.4 | 18.5 | 15.1 | 13.5 | 13.5 |
| 50° | 1358.6 | 591.6 | 55.7 | 45.6 | 37.0 | 26.5 | 19.7 | 15.1 | 11.7 | 10.5 | 10.2 |
| 52.5° | 1551.3 | 674.0 | 49.6 | 41.3 | 31.7 | 22.5 | 16.0 | 11.7 | 8.9 | 8.0 | 7.7 |
| 55° | 1764.1 | 754.7 | 43.7 | 37.0 | 25.8 | 18.8 | 12.6 | 9.2 | 6.5 | 5.6 | 5.6 |
| 57.5° | 1978.7 | 833.8 | 36.6 | 30.8 | 20.4 | 13.9 | 9.9 | 6.8 | 4.3 | 3.4 | 3.4 |
| 60° | 2160.4 | 859.4 | 31.1 | 25.0 | 15.4 | 9.9 | 7.0 | 4.3 | 2.4 | 1.6 | 1.6 |
| 62.5° | 2185.4 | 773.2 | 26.2 | 19.1 | 11.1 | 6.8 | 3.7 | 2.4 | 0.9 | 0.6 | 0.6 |
| 65° | 2049.8 | 628.1 | 21.8 | 14.5 | 7.4 | 3.4 | 1.6 | 0.9 | 0.3 | 0.0 | 0.0 |
| 67° | 1836.8 | 509.3 | 17.9 | 10.8 | 5.2 | 2.2 | 0.9 | 0.3 | 0.0 | 0.0 | 0.0 |
| 67.5° | 1782.3 | 485.6 | 17.2 | 10.2 | 4.6 | 1.9 | 0.6 | 0.3 | 0.0 | 0.0 | 0.0 |
| 70° | 1398.6 | 363.6 | 12.3 | 6.2 | 2.7 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 869.3 | 205.7 | 8.9 | 3.7 | 1.9 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 328.5 | 72.0 | 6.2 | 2.4 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 102.3 | 27.4 | 3.7 | 1.9 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 34.5 | 10.5 | 2.4 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 21.2 | 4.3 | 1.6 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 13.2 | 1.9 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 2.4 | 0.6 | 0.3 | 0.0 | 0.0 | 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)