

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: P450950

Luminaire Tested: **GALN-SA1D-740-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6406 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

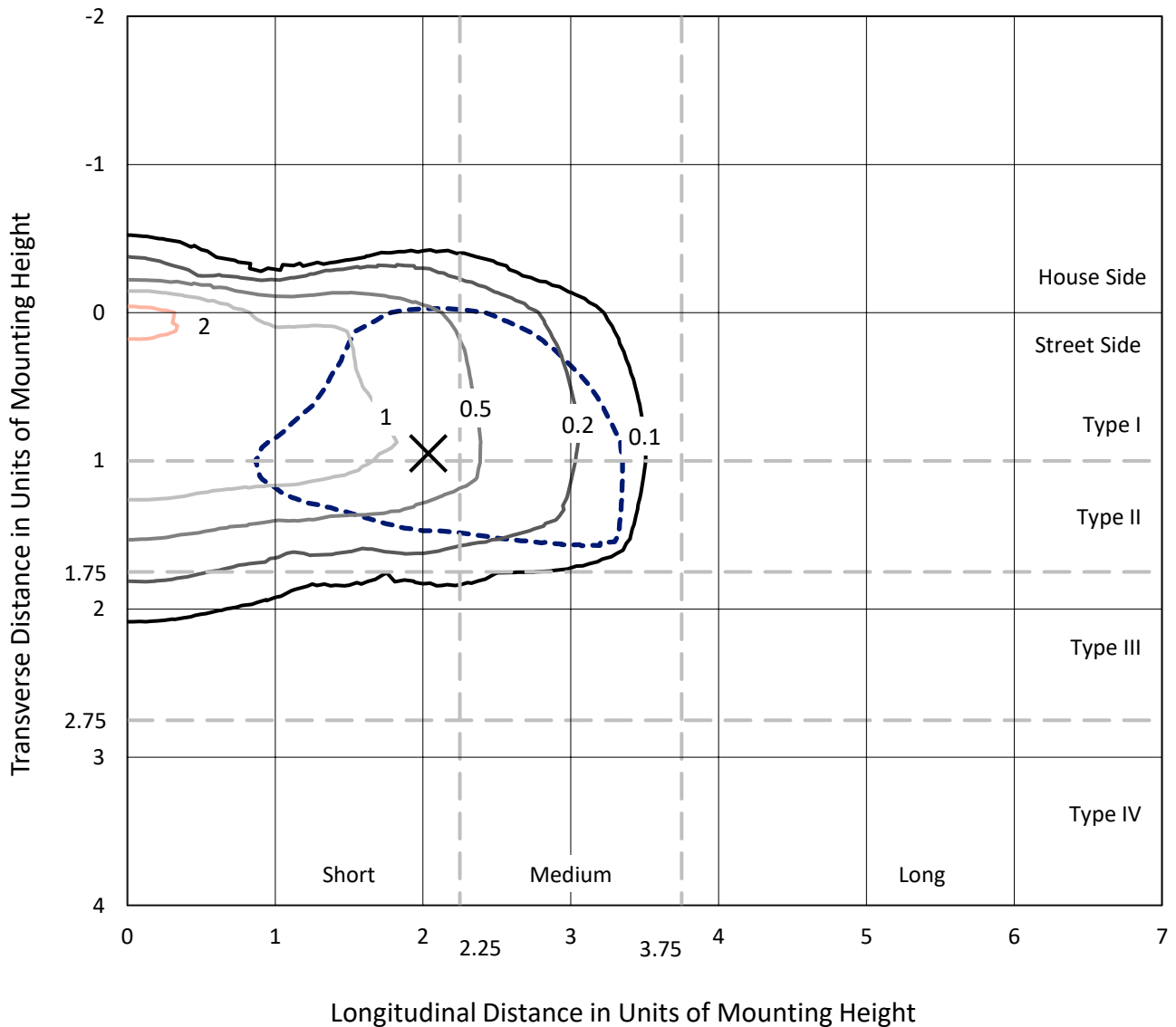
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

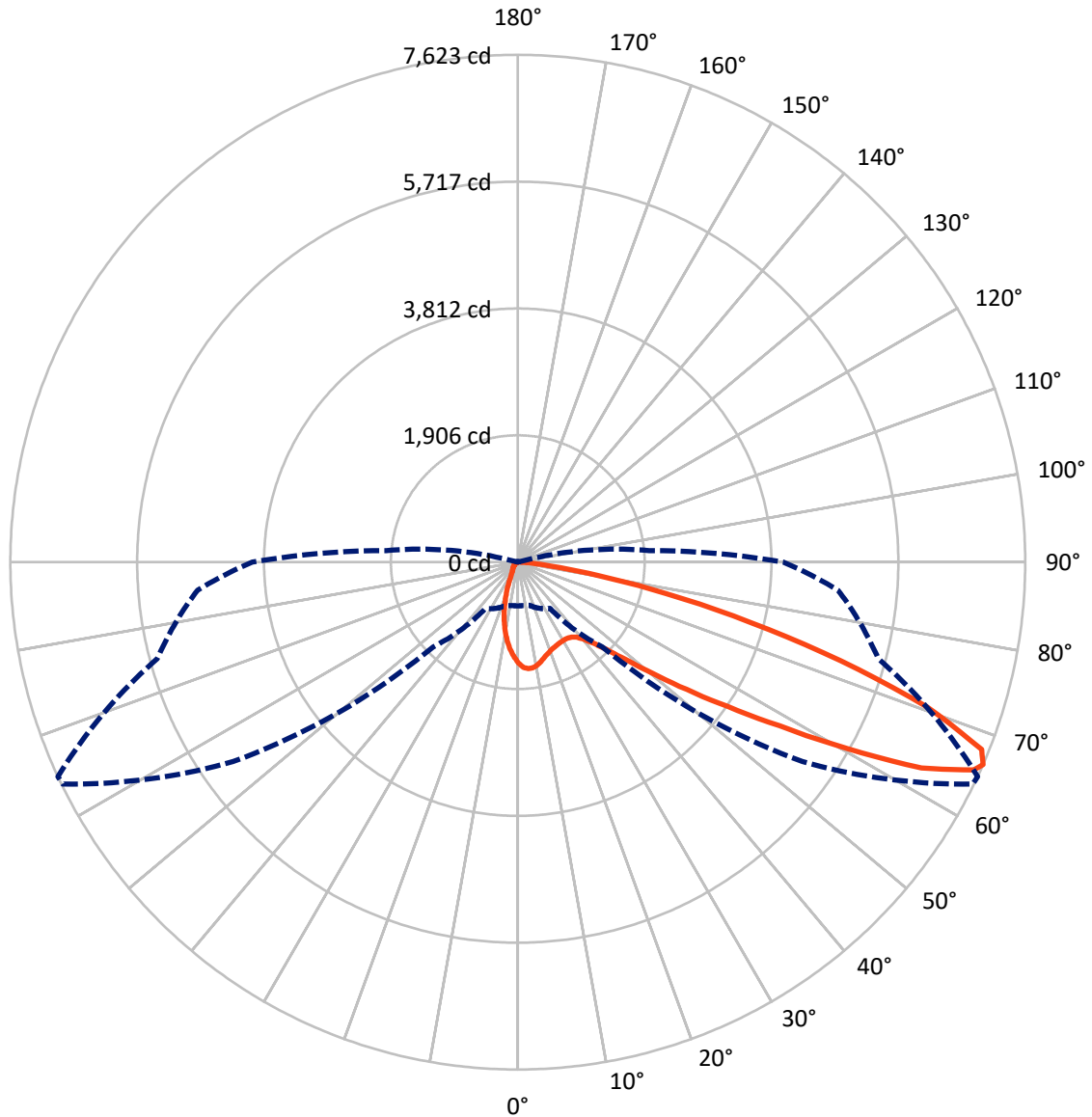
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 662.5 | 0.0 | 662.5 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 5743.5 | 0.0 | 5743.5 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 6406.0 | 0.0 | 6406.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 124.2 | 1.9 |
| 10°-20° | 270.7 | 4.2 |
| 20°-30° | 387.8 | 6.1 |
| 30°-40° | 566.4 | 8.8 |
| 40°-50° | 949.7 | 14.8 |
| 50°-60° | 1584.9 | 24.7 |
| 60°-70° | 1682.4 | 26.3 |
| 70°-80° | 761.9 | 11.9 |
| 80°-90° | 78.0 | 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° | 6406.0 | 100.0 |
| 0°-180° | 6406.0 | 100.0 |

Coefficient of Utilization



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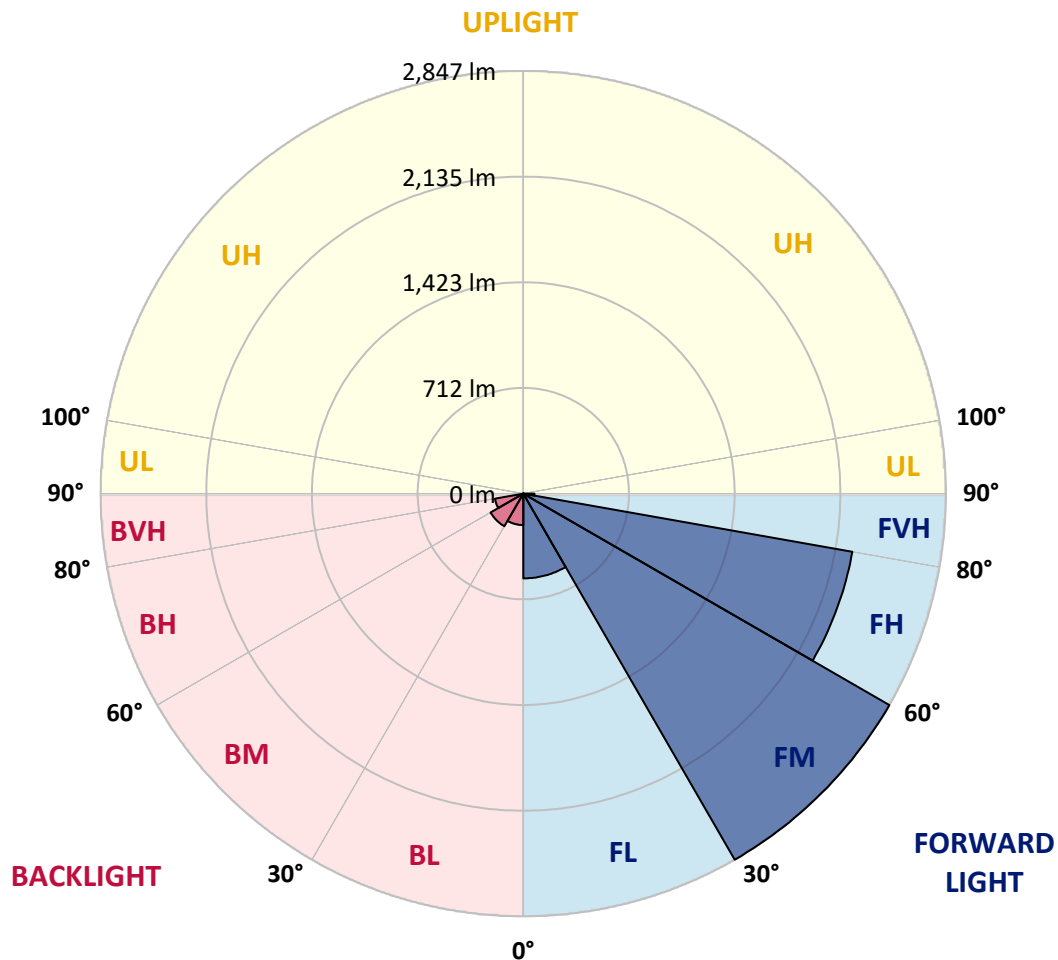
CATALOG NUMBER: GALN-SA1D-740-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 570.8 | 8.9 | | | |
| FM (30°-60°) | 2847.0 | 44.4 | | | |
| FH (60°-80°) | 2250.3 | 35.1 | | | G2/5000 |
| FVH (80°-90°) | 75.5 | 1.2 | | | G1/100 |
| BL (0°-30°) | 211.9 | 3.3 | B1/500 | | |
| BM (30°-60°) | 254.1 | 4.0 | B1/1000 | | |
| BH (60°-80°) | 194.0 | 3.0 | B1/500 | | G1/500 |
| BVH (80°-90°) | 2.5 | 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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1519.1 | 1519.1 | 1519.1 | 1519.1 | 1519.1 | 1519.1 | 1519.1 | 1519.1 | 1519.1 | 1519.1 | 1519.1 |
| 2.5° | 1600.9 | 1602.6 | 1604.8 | 1607.8 | 1610.0 | 1603.5 | 1594.4 | 1584.0 | 1581.8 | 1559.8 | 1532.9 |
| 5° | 1515.2 | 1517.8 | 1536.8 | 1547.2 | 1570.6 | 1591.8 | 1605.2 | 1606.9 | 1606.1 | 1585.3 | 1542.5 |
| 7.5° | 1393.2 | 1400.5 | 1419.2 | 1437.3 | 1481.0 | 1521.3 | 1568.9 | 1602.2 | 1604.3 | 1598.7 | 1545.5 |
| 10° | 1294.1 | 1298.9 | 1308.4 | 1344.3 | 1380.6 | 1442.1 | 1508.7 | 1571.5 | 1576.6 | 1599.1 | 1542.9 |
| 12.5° | 1216.7 | 1223.6 | 1235.3 | 1263.0 | 1306.7 | 1364.6 | 1440.4 | 1524.7 | 1535.5 | 1590.9 | 1535.5 |
| 15° | 1162.6 | 1166.0 | 1177.7 | 1205.0 | 1247.4 | 1301.0 | 1377.6 | 1475.8 | 1485.4 | 1580.1 | 1534.2 |
| 17.5° | 1137.1 | 1140.9 | 1149.2 | 1170.8 | 1205.8 | 1255.6 | 1330.5 | 1436.5 | 1448.6 | 1573.2 | 1539.0 |
| 20° | 1144.0 | 1147.4 | 1147.9 | 1159.1 | 1182.9 | 1224.9 | 1295.8 | 1399.7 | 1415.3 | 1568.9 | 1546.8 |
| 22.5° | 1183.3 | 1183.8 | 1178.6 | 1173.4 | 1181.6 | 1211.9 | 1274.6 | 1376.3 | 1392.3 | 1568.0 | 1555.9 |
| 25° | 1242.2 | 1243.5 | 1234.8 | 1216.7 | 1200.2 | 1215.8 | 1269.9 | 1361.2 | 1375.5 | 1565.8 | 1561.5 |
| 27.5° | 1323.5 | 1323.1 | 1320.5 | 1290.2 | 1243.5 | 1233.1 | 1273.8 | 1353.0 | 1365.1 | 1559.8 | 1563.7 |
| 30° | 1437.3 | 1433.9 | 1428.2 | 1394.1 | 1322.7 | 1275.1 | 1290.2 | 1347.8 | 1359.0 | 1551.1 | 1558.0 |
| 32.5° | 1549.4 | 1562.4 | 1561.5 | 1529.1 | 1439.9 | 1349.9 | 1324.4 | 1354.7 | 1362.9 | 1545.5 | 1549.8 |
| 35° | 1680.1 | 1679.6 | 1712.9 | 1700.8 | 1596.5 | 1445.5 | 1382.8 | 1377.6 | 1384.1 | 1549.4 | 1545.9 |
| 37.5° | 1801.2 | 1812.4 | 1864.4 | 1876.9 | 1781.7 | 1580.5 | 1465.4 | 1426.9 | 1429.1 | 1575.8 | 1555.4 |
| 40° | 1952.2 | 1973.8 | 2051.3 | 2093.2 | 2009.3 | 1780.9 | 1587.5 | 1517.4 | 1517.8 | 1640.7 | 1591.4 |
| 42.5° | 2146.9 | 2181.1 | 2253.3 | 2323.4 | 2278.4 | 2018.0 | 1770.5 | 1660.6 | 1659.7 | 1754.9 | 1673.6 |
| 45° | 2383.6 | 2407.4 | 2489.6 | 2600.8 | 2572.2 | 2349.0 | 2037.0 | 1882.5 | 1871.3 | 1942.2 | 1819.4 |
| 47.5° | 2587.8 | 2620.2 | 2703.7 | 2830.5 | 2960.3 | 2753.1 | 2355.4 | 2187.6 | 2180.2 | 2240.4 | 2069.5 |
| 50° | 2676.9 | 2705.5 | 2793.3 | 2971.1 | 3285.7 | 3283.5 | 2829.7 | 2632.8 | 2620.2 | 2652.7 | 2456.3 |
| 52.5° | 2579.1 | 2606.0 | 2694.7 | 2916.2 | 3438.8 | 3929.9 | 3516.7 | 3191.4 | 3176.2 | 3134.7 | 2918.3 |
| 55° | 2244.3 | 2266.3 | 2397.4 | 2651.8 | 3380.0 | 4360.9 | 4463.4 | 3881.5 | 3822.6 | 3661.2 | 3441.4 |
| 57.5° | 1786.9 | 1775.7 | 1857.0 | 2152.5 | 3034.7 | 4505.4 | 5435.2 | 4741.2 | 4636.0 | 4116.4 | 3884.1 |
| 60° | 1238.3 | 1272.9 | 1305.8 | 1500.5 | 2281.9 | 4254.9 | 6039.6 | 5822.0 | 5683.5 | 4564.2 | 4308.1 |
| 62.5° | 910.3 | 933.3 | 954.9 | 1044.9 | 1434.7 | 3397.3 | 6146.5 | 6932.2 | 6809.3 | 5039.7 | 4712.6 |
| 65° | 720.0 | 721.7 | 730.3 | 819.0 | 945.4 | 2209.2 | 5632.9 | 7558.3 | 7526.7 | 5497.5 | 4876.6 |
| 66° | 655.9 | 656.4 | 669.8 | 765.0 | 848.5 | 1799.0 | 5221.4 | 7605.9 | 7623.2 | 5607.4 | 4828.6 |
| 67.5° | 573.3 | 571.6 | 591.0 | 687.5 | 772.7 | 1297.1 | 4485.0 | 7412.9 | 7515.5 | 5691.8 | 4655.9 |
| 70° | 444.4 | 442.2 | 466.0 | 576.7 | 711.7 | 865.3 | 2981.1 | 6365.0 | 6530.3 | 5519.1 | 4119.4 |
| 72.5° | 295.9 | 297.7 | 338.3 | 455.2 | 679.3 | 761.9 | 1793.4 | 4842.0 | 5075.6 | 4557.7 | 3240.7 |
| 75° | 172.6 | 175.7 | 222.0 | 338.3 | 589.7 | 726.5 | 1015.0 | 3452.7 | 3602.0 | 3147.2 | 2018.8 |
| 77.5° | 90.4 | 91.7 | 124.2 | 223.3 | 452.1 | 674.5 | 676.3 | 2205.7 | 2275.8 | 1529.5 | 799.1 |
| 80° | 48.0 | 46.7 | 66.6 | 134.6 | 311.1 | 592.3 | 548.6 | 1167.8 | 1214.1 | 454.3 | 202.1 |
| 82.5° | 18.2 | 19.9 | 35.5 | 88.3 | 183.9 | 425.3 | 472.5 | 516.2 | 500.2 | 99.9 | 84.8 |
| 85° | 3.5 | 4.3 | 15.1 | 52.4 | 92.6 | 177.8 | 348.3 | 253.1 | 234.5 | 37.6 | 48.9 |
| 87.5° | 0.4 | 0.9 | 4.3 | 12.5 | 13.4 | 60.1 | 103.0 | 70.1 | 60.6 | 13.8 | 20.3 |
| 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° | 1519.1 | 1519.1 | 1519.1 | 1519.1 | 1519.1 | 1519.1 | 1519.1 | 1519.1 | 1519.1 | 1519.1 | 1519.1 |
| 2.5° | 1520.0 | 1508.3 | 1469.3 | 1430.8 | 1391.5 | 1356.0 | 1331.8 | 1292.4 | 1282.4 | 1268.2 | 1259.9 |
| 5° | 1516.9 | 1489.7 | 1414.8 | 1333.1 | 1256.9 | 1174.7 | 1112.0 | 1051.4 | 1018.9 | 1002.5 | 996.4 |
| 7.5° | 1508.3 | 1465.0 | 1348.2 | 1220.1 | 1098.1 | 975.2 | 868.4 | 787.0 | 734.7 | 698.8 | 674.5 |
| 10° | 1491.0 | 1431.3 | 1270.7 | 1094.7 | 910.3 | 748.1 | 612.7 | 509.7 | 430.1 | 405.0 | 405.8 |
| 12.5° | 1473.2 | 1393.6 | 1184.2 | 955.3 | 726.9 | 522.2 | 378.6 | 297.2 | 259.2 | 246.6 | 244.0 |
| 15° | 1456.8 | 1357.7 | 1099.4 | 820.3 | 541.3 | 338.3 | 244.0 | 215.5 | 205.1 | 202.9 | 202.5 |
| 17.5° | 1448.1 | 1324.4 | 1009.0 | 665.9 | 377.7 | 229.7 | 195.6 | 187.8 | 184.7 | 182.6 | 181.7 |
| 20° | 1440.8 | 1295.4 | 922.4 | 521.4 | 258.3 | 188.2 | 175.2 | 167.9 | 162.7 | 160.5 | 159.2 |
| 22.5° | 1435.6 | 1265.6 | 832.9 | 403.7 | 197.7 | 167.0 | 155.3 | 145.8 | 138.5 | 135.9 | 134.1 |
| 25° | 1427.8 | 1232.7 | 742.5 | 295.1 | 166.6 | 148.4 | 135.0 | 123.7 | 114.2 | 109.5 | 108.6 |
| 27.5° | 1416.6 | 1195.5 | 643.4 | 218.5 | 148.8 | 132.0 | 115.5 | 101.7 | 92.2 | 87.0 | 87.4 |
| 30° | 1398.4 | 1156.5 | 544.3 | 173.5 | 134.6 | 115.1 | 97.4 | 83.9 | 74.9 | 71.0 | 70.5 |
| 32.5° | 1376.8 | 1109.4 | 453.4 | 148.8 | 121.6 | 99.9 | 81.3 | 69.7 | 62.7 | 59.7 | 59.3 |
| 35° | 1356.4 | 1061.8 | 360.8 | 133.7 | 108.2 | 86.1 | 68.4 | 58.4 | 53.2 | 50.6 | 51.1 |
| 37.5° | 1345.2 | 1019.4 | 281.2 | 121.6 | 97.4 | 74.0 | 58.8 | 50.2 | 45.4 | 43.3 | 42.8 |
| 40° | 1352.5 | 984.8 | 223.7 | 110.8 | 85.2 | 63.6 | 50.6 | 43.3 | 38.5 | 35.5 | 35.5 |
| 42.5° | 1387.1 | 969.6 | 180.4 | 100.4 | 74.0 | 54.9 | 44.1 | 37.2 | 32.0 | 29.0 | 29.4 |
| 45° | 1492.7 | 985.6 | 151.0 | 90.9 | 63.6 | 47.6 | 38.1 | 30.7 | 26.0 | 23.8 | 23.4 |
| 47.5° | 1667.9 | 1045.8 | 130.7 | 80.9 | 54.5 | 40.7 | 32.0 | 25.5 | 20.8 | 19.0 | 18.6 |
| 50° | 1974.3 | 1169.9 | 115.5 | 71.0 | 46.3 | 34.6 | 26.4 | 20.3 | 16.4 | 14.7 | 14.7 |
| 52.5° | 2395.7 | 1440.8 | 104.7 | 59.7 | 38.9 | 29.4 | 21.6 | 16.4 | 13.0 | 11.7 | 11.2 |
| 55° | 2836.1 | 1726.3 | 99.1 | 50.2 | 32.5 | 24.2 | 17.3 | 13.0 | 10.0 | 8.7 | 8.2 |
| 57.5° | 3259.7 | 1950.5 | 92.6 | 40.7 | 26.0 | 18.6 | 13.4 | 10.0 | 6.9 | 6.1 | 5.6 |
| 60° | 3666.0 | 2131.8 | 78.7 | 32.5 | 20.3 | 13.4 | 10.0 | 6.9 | 4.8 | 3.9 | 3.9 |
| 62.5° | 4029.4 | 2237.3 | 61.9 | 26.0 | 15.6 | 9.5 | 6.5 | 5.2 | 3.5 | 2.6 | 2.6 |
| 65° | 4071.8 | 2100.2 | 46.7 | 19.9 | 11.2 | 6.1 | 3.9 | 3.9 | 2.6 | 1.7 | 1.7 |
| 66° | 3986.6 | 1983.8 | 41.1 | 18.2 | 10.0 | 5.2 | 3.5 | 3.0 | 2.2 | 1.3 | 1.3 |
| 67.5° | 3796.2 | 1785.2 | 35.5 | 15.6 | 8.2 | 3.9 | 2.6 | 2.6 | 1.7 | 0.9 | 0.9 |
| 70° | 3280.1 | 1458.1 | 28.1 | 11.7 | 6.1 | 3.0 | 1.7 | 1.7 | 1.3 | 0.9 | 0.9 |
| 72.5° | 2500.0 | 1088.6 | 22.9 | 8.7 | 4.3 | 2.2 | 1.3 | 1.3 | 1.3 | 0.9 | 0.9 |
| 75° | 1507.8 | 586.3 | 17.7 | 6.5 | 3.9 | 1.7 | 0.9 | 1.3 | 1.7 | 1.3 | 0.9 |
| 77.5° | 555.5 | 199.5 | 13.8 | 5.2 | 3.0 | 1.7 | 0.9 | 0.9 | 1.7 | 1.3 | 1.3 |
| 80° | 136.3 | 51.9 | 10.0 | 4.3 | 3.0 | 1.7 | 0.9 | 0.9 | 1.7 | 1.7 | 1.7 |
| 82.5° | 63.2 | 22.1 | 6.9 | 3.9 | 3.0 | 1.7 | 0.9 | 0.9 | 1.3 | 1.7 | 1.7 |
| 85° | 36.3 | 10.4 | 5.6 | 4.3 | 3.0 | 1.7 | 0.9 | 0.9 | 1.3 | 1.7 | 1.7 |
| 87.5° | 14.7 | 5.2 | 5.2 | 4.3 | 3.5 | 2.2 | 0.9 | 0.9 | 0.9 | 1.3 | 1.3 |
| 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)