

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: P450780

Luminaire Tested: **GALN-SA1C-760-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1C-760-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5852 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

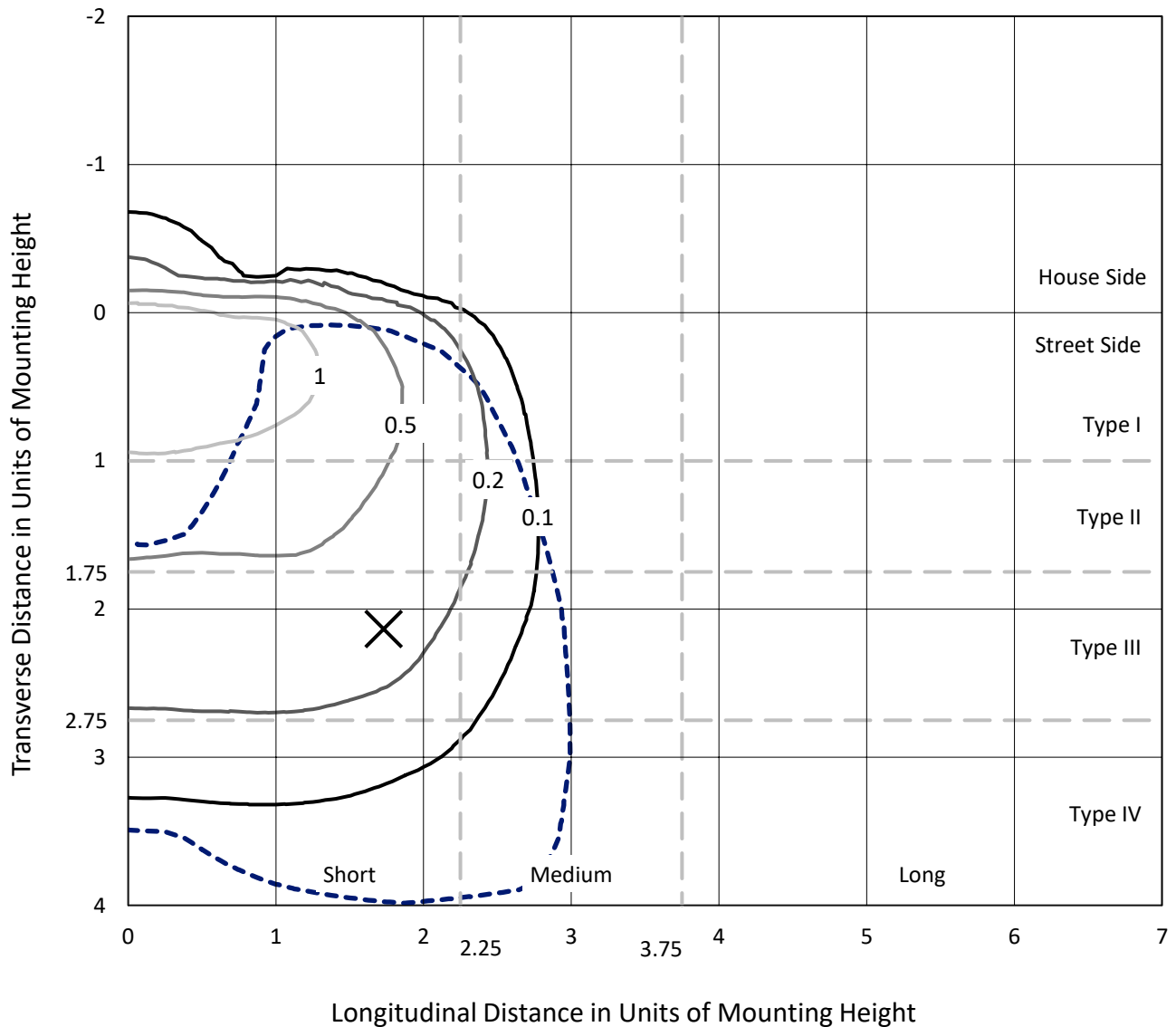
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

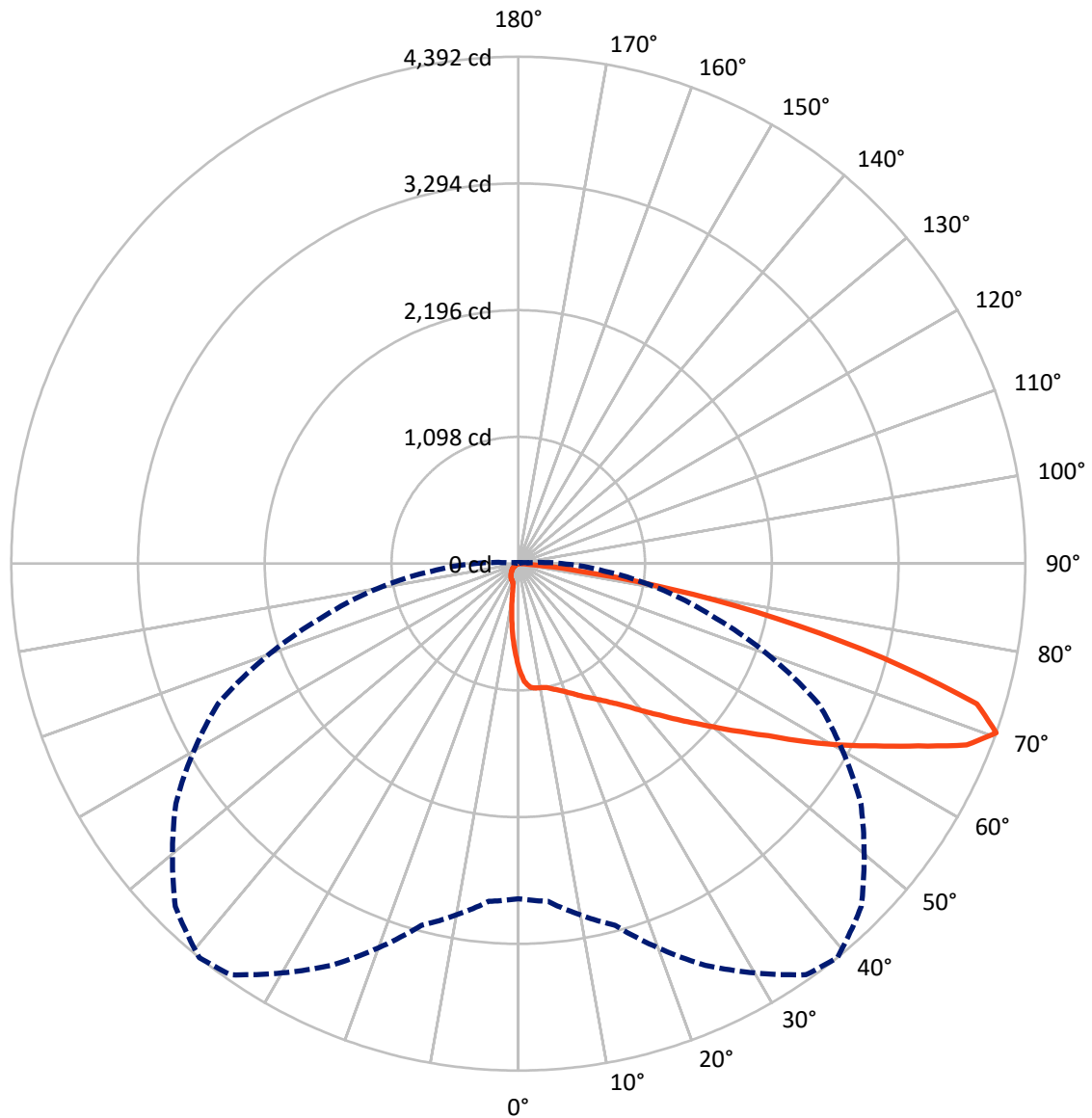
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 381.6 | 0.0 | 381.6 |
| | % Fixture | 6.5 | 0.0 | 6.5 |
| Street Side | Lumens | 5470.4 | 0.0 | 5470.4 |
| | % Fixture | 93.5 | 0.0 | 93.5 |
| Total | Lumens | 5852.0 | 0.0 | 5852.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 77.9 | 1.3 |
| 10°-20° | 202.4 | 3.5 |
| 20°-30° | 339.1 | 5.8 |
| 30°-40° | 525.8 | 9.0 |
| 40°-50° | 833.3 | 14.2 |
| 50°-60° | 1221.5 | 20.9 |
| 60°-70° | 1565.7 | 26.8 |
| 70°-80° | 983.8 | 16.8 |
| 80°-90° | 102.5 | 1.8 |
| 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° | 5852.0 | 100.0 |
| 0°-180° | 5852.0 | 100.0 |

Coefficient of Utilization



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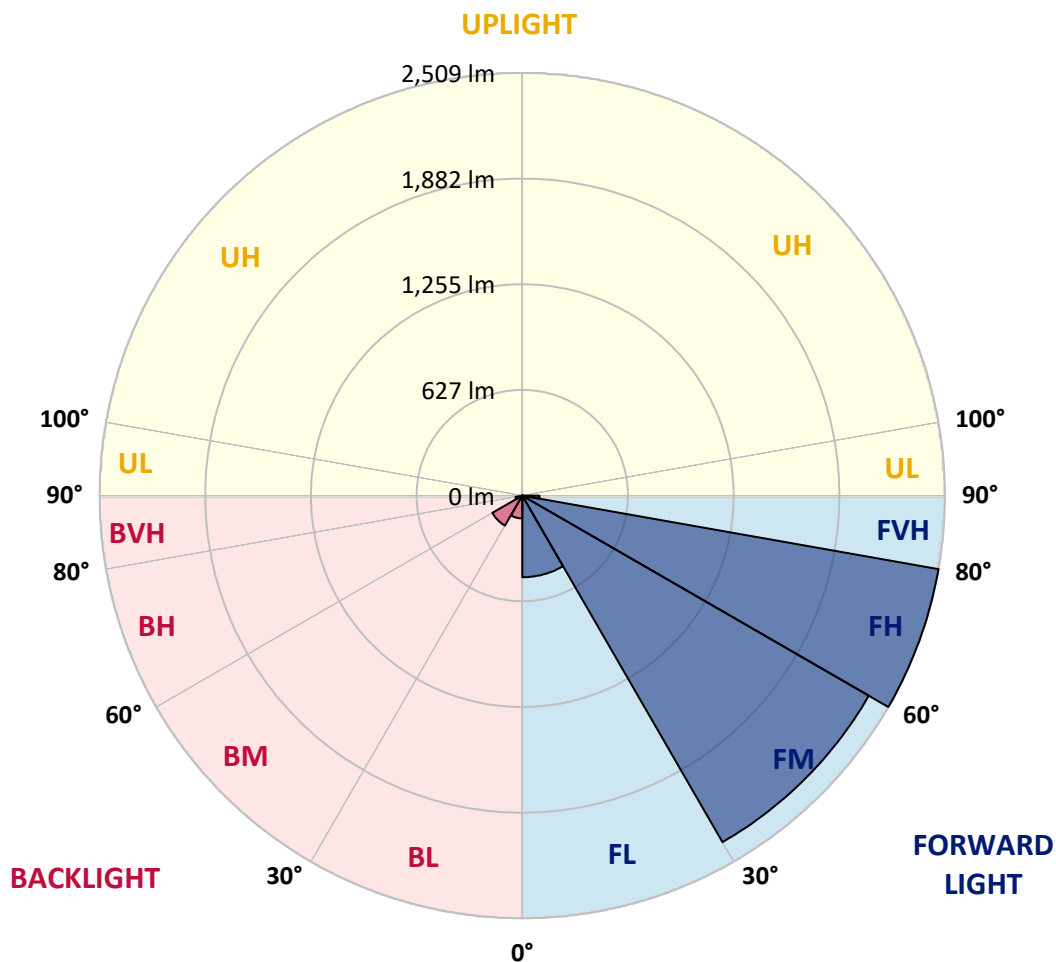
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 484.2 | 8.3 | | | |
| FM (30°-60°) | 2375.3 | 40.6 | | | |
| FH (60°-80°) | 2509.2 | 42.9 | | | G2/5000 |
| FVH (80°-90°) | 101.7 | 1.7 | | | G2/225 |
| BL (0°-30°) | 135.1 | 2.3 | B1/500 | | |
| BM (30°-60°) | 205.4 | 3.5 | B0/220 | | |
| BH (60°-80°) | 40.4 | 0.7 | B0/110 | | G0/110 |
| BVH (80°-90°) | 0.8 | 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 IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 39° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 913.1 | 913.1 | 913.1 | 913.1 | 913.1 | 913.1 | 913.1 | 913.1 | 913.1 | 913.1 | 913.1 |
| 2.5° | 1055.1 | 1051.5 | 1046.8 | 1041.3 | 1025.6 | 1022.8 | 1013.4 | 993.3 | 969.3 | 949.7 | 922.6 |
| 5° | 1105.0 | 1107.0 | 1103.4 | 1093.6 | 1082.2 | 1075.5 | 1063.7 | 1032.7 | 1001.6 | 961.9 | 917.4 |
| 7.5° | 1116.4 | 1120.4 | 1116.0 | 1106.6 | 1095.6 | 1088.5 | 1079.1 | 1052.3 | 1016.1 | 970.9 | 910.0 |
| 10° | 1115.2 | 1120.0 | 1117.2 | 1108.6 | 1099.5 | 1092.8 | 1082.6 | 1061.4 | 1032.3 | 984.7 | 912.3 |
| 12.5° | 1113.3 | 1119.6 | 1119.2 | 1114.8 | 1107.4 | 1102.3 | 1096.0 | 1077.1 | 1050.0 | 1004.7 | 925.3 |
| 15° | 1107.8 | 1115.6 | 1122.7 | 1126.3 | 1126.6 | 1126.6 | 1118.8 | 1098.7 | 1072.8 | 1031.1 | 942.2 |
| 17.5° | 1110.1 | 1119.2 | 1136.9 | 1147.1 | 1154.2 | 1153.4 | 1145.1 | 1123.5 | 1094.8 | 1058.2 | 959.9 |
| 20° | 1124.7 | 1136.9 | 1161.6 | 1182.1 | 1189.2 | 1186.8 | 1175.8 | 1150.6 | 1118.0 | 1081.4 | 977.2 |
| 22.5° | 1160.5 | 1171.5 | 1202.5 | 1226.5 | 1231.6 | 1225.3 | 1209.6 | 1175.4 | 1145.9 | 1106.6 | 998.1 |
| 25° | 1213.9 | 1226.9 | 1255.6 | 1273.7 | 1273.7 | 1270.2 | 1248.2 | 1208.0 | 1177.4 | 1141.6 | 1025.2 |
| 27.5° | 1278.8 | 1289.8 | 1318.2 | 1334.3 | 1324.8 | 1314.6 | 1292.6 | 1244.2 | 1214.7 | 1185.6 | 1057.8 |
| 30° | 1344.5 | 1351.6 | 1381.5 | 1388.5 | 1378.7 | 1365.7 | 1342.1 | 1293.8 | 1267.8 | 1245.4 | 1105.0 |
| 32.5° | 1406.6 | 1422.0 | 1446.7 | 1445.2 | 1431.8 | 1425.5 | 1403.9 | 1352.4 | 1337.8 | 1335.5 | 1171.1 |
| 35° | 1468.8 | 1480.6 | 1502.6 | 1508.1 | 1496.3 | 1495.1 | 1479.4 | 1441.2 | 1441.6 | 1457.0 | 1274.1 |
| 37.5° | 1522.2 | 1532.9 | 1558.8 | 1571.0 | 1573.4 | 1579.3 | 1573.0 | 1547.8 | 1583.6 | 1625.7 | 1410.6 |
| 40° | 1567.1 | 1582.0 | 1615.1 | 1636.3 | 1660.7 | 1682.3 | 1683.5 | 1689.0 | 1760.9 | 1833.3 | 1588.7 |
| 42.5° | 1602.1 | 1622.9 | 1670.9 | 1710.2 | 1766.1 | 1793.6 | 1815.6 | 1845.9 | 1967.0 | 2075.1 | 1798.7 |
| 45° | 1647.7 | 1671.7 | 1731.5 | 1793.2 | 1880.5 | 1925.7 | 1956.4 | 2037.4 | 2209.2 | 2356.7 | 2014.2 |
| 47.5° | 1723.2 | 1735.8 | 1796.7 | 1886.8 | 2001.6 | 2066.1 | 2125.9 | 2248.6 | 2469.2 | 2601.3 | 2193.5 |
| 50° | 1820.3 | 1828.6 | 1874.6 | 1999.6 | 2148.3 | 2233.2 | 2342.2 | 2486.5 | 2738.9 | 2804.2 | 2295.0 |
| 52.5° | 1927.7 | 1930.4 | 1965.0 | 2123.9 | 2312.7 | 2419.6 | 2541.5 | 2719.7 | 2958.8 | 2948.9 | 2362.2 |
| 55° | 2052.3 | 2048.4 | 2077.9 | 2258.8 | 2507.3 | 2629.6 | 2771.6 | 2958.4 | 3149.5 | 3051.6 | 2400.8 |
| 57.5° | 2195.1 | 2184.5 | 2213.2 | 2437.7 | 2756.6 | 2902.9 | 3047.2 | 3164.4 | 3297.4 | 3137.7 | 2419.2 |
| 60° | 2344.5 | 2323.3 | 2357.5 | 2638.7 | 3050.4 | 3189.2 | 3309.1 | 3340.6 | 3453.1 | 3206.1 | 2387.4 |
| 62.5° | 2463.7 | 2464.1 | 2527.8 | 2852.6 | 3352.4 | 3473.9 | 3537.6 | 3565.9 | 3587.2 | 3191.2 | 2219.9 |
| 65° | 2649.7 | 2656.0 | 2757.8 | 3149.5 | 3702.0 | 3807.4 | 3851.0 | 3759.0 | 3593.1 | 3005.6 | 1968.2 |
| 67.5° | 2841.6 | 2861.6 | 3048.0 | 3558.5 | 4105.9 | 4190.8 | 4134.6 | 3796.4 | 3432.6 | 2582.0 | 1492.4 |
| 70° | 2904.1 | 2937.1 | 3244.3 | 3840.0 | 4348.1 | 4392.1 | 4201.8 | 3622.2 | 2869.5 | 1726.3 | 751.1 |
| 72.5° | 2661.1 | 2714.6 | 3131.4 | 3737.4 | 4193.6 | 4155.4 | 3759.4 | 3037.8 | 1824.3 | 655.5 | 229.3 |
| 75° | 1876.6 | 1900.2 | 2602.5 | 3100.3 | 3372.9 | 3264.7 | 2859.7 | 1958.4 | 750.3 | 184.0 | 78.6 |
| 77.5° | 969.0 | 957.5 | 1547.8 | 2057.1 | 2405.5 | 2293.4 | 1872.6 | 1013.8 | 284.3 | 76.7 | 48.8 |
| 80° | 501.0 | 509.3 | 669.7 | 1077.9 | 1468.4 | 1351.2 | 998.4 | 469.9 | 151.4 | 42.5 | 37.4 |
| 82.5° | 280.8 | 263.5 | 385.0 | 470.7 | 686.6 | 538.4 | 383.0 | 332.7 | 66.1 | 25.6 | 35.4 |
| 85° | 51.1 | 53.5 | 211.2 | 254.4 | 238.3 | 151.4 | 123.5 | 222.2 | 19.3 | 14.2 | 24.8 |
| 87.5° | 0.8 | 0.8 | 40.9 | 73.1 | 46.4 | 21.2 | 38.9 | 31.9 | 3.9 | 5.5 | 4.3 |
| 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° | 913.1 | 913.1 | 913.1 | 913.1 | 913.1 | 913.1 | 913.1 | 913.1 | 913.1 | 913.1 | 913.1 |
| 2.5° | 908.8 | 893.8 | 865.9 | 838.4 | 803.4 | 774.7 | 755.4 | 735.4 | 714.9 | 716.5 | 721.2 |
| 5° | 893.1 | 867.1 | 812.0 | 753.8 | 698.0 | 647.7 | 598.1 | 553.7 | 535.6 | 519.1 | 519.9 |
| 7.5° | 877.3 | 840.8 | 760.1 | 668.9 | 584.4 | 498.6 | 436.5 | 385.4 | 358.2 | 337.8 | 331.9 |
| 10° | 870.2 | 821.9 | 712.6 | 587.1 | 467.2 | 373.6 | 293.8 | 252.1 | 219.8 | 209.6 | 212.4 |
| 12.5° | 873.4 | 812.4 | 669.7 | 513.2 | 370.4 | 260.3 | 204.5 | 183.3 | 176.2 | 175.0 | 174.2 |
| 15° | 879.3 | 805.8 | 627.6 | 431.4 | 272.1 | 193.5 | 171.8 | 167.9 | 167.1 | 166.3 | 166.7 |
| 17.5° | 887.2 | 799.9 | 582.8 | 354.7 | 208.8 | 169.1 | 162.8 | 160.8 | 160.4 | 160.4 | 160.4 |
| 20° | 895.0 | 793.2 | 532.8 | 286.3 | 174.2 | 159.7 | 155.7 | 154.5 | 154.2 | 154.2 | 153.8 |
| 22.5° | 904.1 | 787.3 | 482.1 | 224.9 | 160.4 | 153.0 | 149.4 | 148.6 | 148.3 | 147.9 | 147.9 |
| 25° | 917.0 | 779.8 | 428.2 | 184.0 | 151.8 | 146.7 | 143.1 | 142.4 | 142.0 | 140.4 | 140.8 |
| 27.5° | 934.3 | 774.3 | 372.8 | 158.9 | 143.9 | 138.8 | 136.5 | 135.3 | 134.5 | 133.3 | 133.7 |
| 30° | 957.9 | 769.6 | 313.8 | 145.1 | 134.9 | 130.6 | 128.2 | 127.4 | 126.6 | 125.4 | 125.4 |
| 32.5° | 998.8 | 771.5 | 251.7 | 134.1 | 126.6 | 121.5 | 119.2 | 118.4 | 117.6 | 116.4 | 116.4 |
| 35° | 1060.2 | 782.9 | 201.3 | 124.7 | 116.8 | 111.7 | 109.3 | 109.3 | 108.1 | 106.6 | 106.2 |
| 37.5° | 1160.5 | 812.0 | 161.6 | 115.6 | 107.4 | 102.6 | 99.9 | 99.1 | 97.9 | 95.6 | 95.2 |
| 40° | 1278.8 | 857.3 | 136.1 | 106.6 | 98.7 | 94.0 | 91.6 | 89.3 | 86.1 | 83.8 | 83.4 |
| 42.5° | 1427.5 | 903.7 | 118.0 | 97.5 | 90.4 | 86.1 | 83.4 | 79.4 | 74.7 | 71.6 | 71.2 |
| 45° | 1582.4 | 946.1 | 105.8 | 89.3 | 82.6 | 79.0 | 75.9 | 69.6 | 63.7 | 59.8 | 59.4 |
| 47.5° | 1698.0 | 954.0 | 96.0 | 81.4 | 75.9 | 72.4 | 68.0 | 60.2 | 52.3 | 48.8 | 47.6 |
| 50° | 1752.7 | 915.9 | 85.7 | 73.5 | 69.2 | 65.3 | 59.8 | 50.7 | 42.1 | 37.8 | 37.0 |
| 52.5° | 1772.0 | 849.8 | 77.5 | 66.5 | 62.5 | 57.8 | 51.1 | 40.9 | 33.0 | 28.7 | 28.3 |
| 55° | 1764.1 | 766.4 | 70.0 | 59.8 | 54.7 | 49.2 | 42.5 | 32.6 | 24.4 | 20.8 | 20.1 |
| 57.5° | 1722.8 | 660.3 | 62.5 | 53.1 | 46.8 | 41.3 | 33.8 | 24.4 | 16.5 | 13.4 | 13.0 |
| 60° | 1611.5 | 515.5 | 55.1 | 45.6 | 39.7 | 33.8 | 26.7 | 17.3 | 10.2 | 7.5 | 7.5 |
| 62.5° | 1423.5 | 382.6 | 48.0 | 38.1 | 33.4 | 27.1 | 18.9 | 11.0 | 5.5 | 3.9 | 3.5 |
| 65° | 1189.6 | 282.3 | 40.1 | 32.2 | 27.9 | 21.2 | 13.4 | 6.7 | 2.8 | 1.2 | 0.8 |
| 67.5° | 830.1 | 174.2 | 33.4 | 26.3 | 22.8 | 15.3 | 8.3 | 2.8 | 1.2 | 0.0 | 0.0 |
| 70° | 377.1 | 83.0 | 25.6 | 20.1 | 17.3 | 11.0 | 4.3 | 1.6 | 0.8 | 0.0 | 0.0 |
| 72.5° | 117.2 | 43.7 | 18.1 | 14.6 | 11.8 | 7.1 | 2.4 | 1.2 | 0.8 | 0.0 | 0.0 |
| 75° | 54.3 | 27.9 | 11.4 | 7.9 | 6.7 | 3.5 | 1.6 | 0.8 | 0.4 | 0.0 | 0.0 |
| 77.5° | 40.5 | 21.6 | 6.7 | 4.3 | 3.5 | 2.4 | 1.2 | 0.8 | 0.4 | 0.0 | 0.0 |
| 80° | 35.4 | 11.0 | 3.9 | 2.8 | 2.0 | 1.6 | 0.8 | 0.4 | 0.0 | 0.0 | 0.0 |
| 82.5° | 31.9 | 5.5 | 2.4 | 1.6 | 1.2 | 0.8 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 |
| 85° | 17.3 | 3.1 | 1.6 | 1.2 | 0.8 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.1 | 1.6 | 1.2 | 0.8 | 0.8 | 0.4 | 0.4 | 0.4 | 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)