

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: STREETWORKS

Report Number: P458545

Luminaire Tested: **GLAN-SA1B-735-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1B-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4394 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

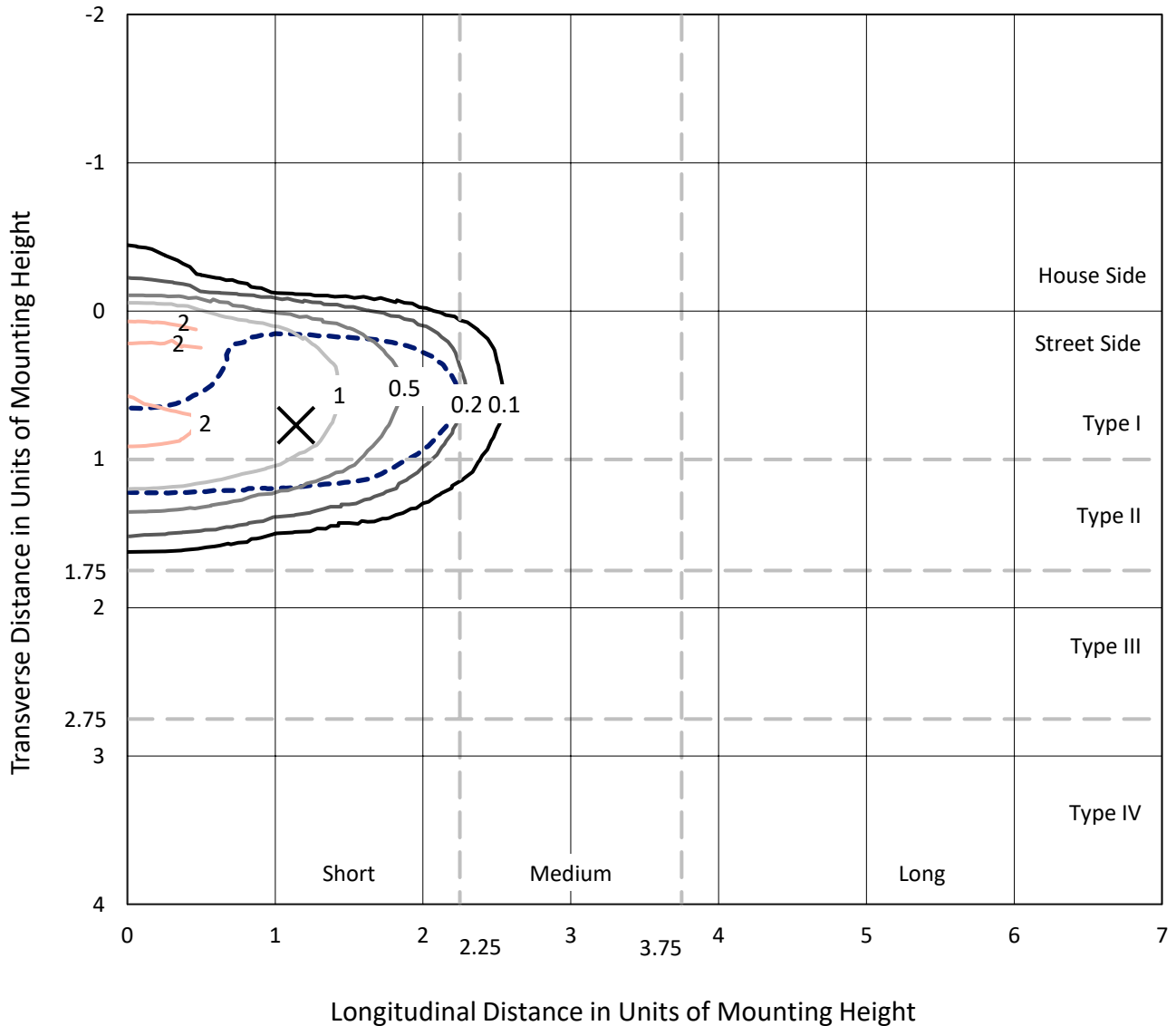
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

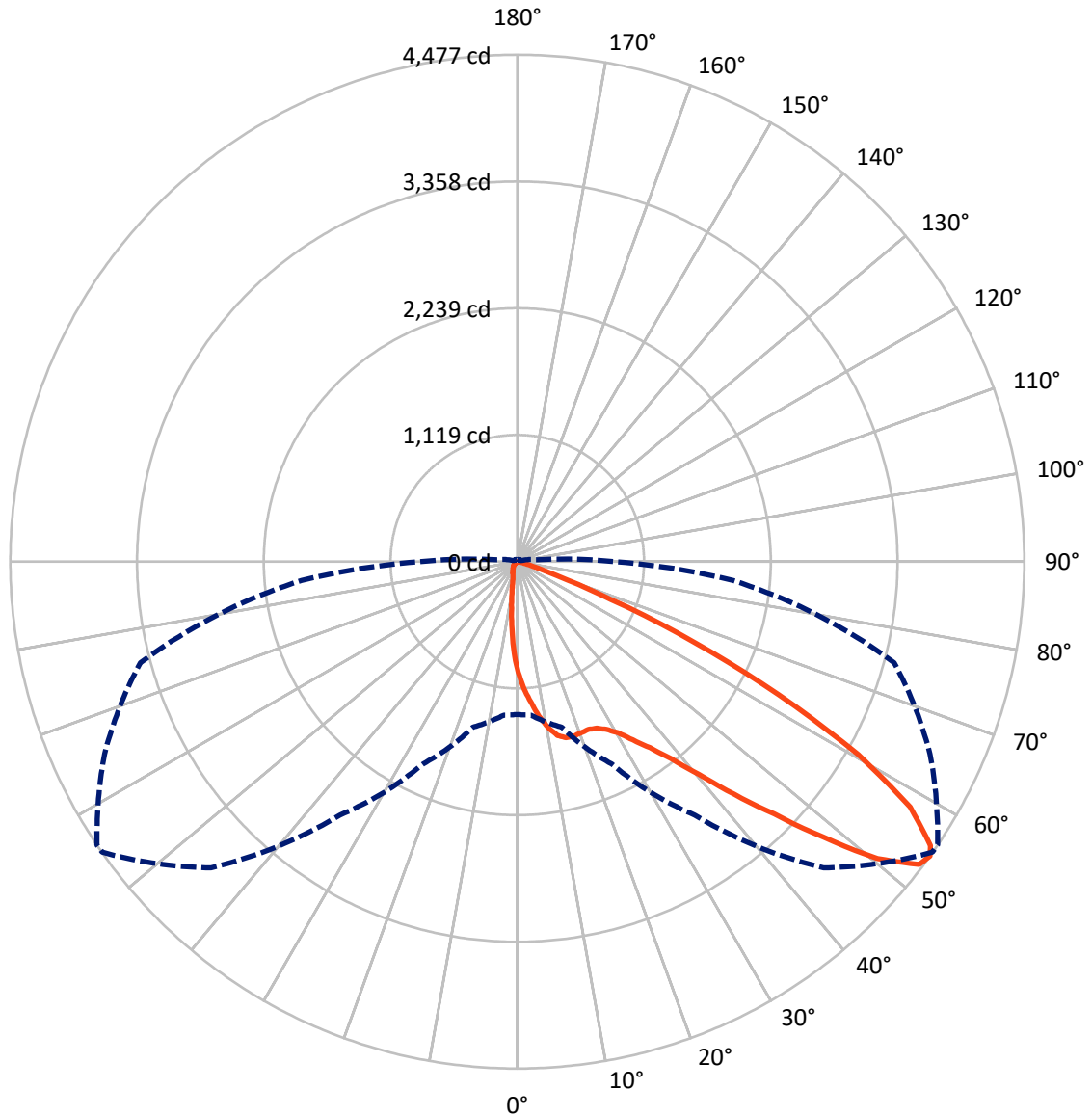
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 207.8 | 0.0 | 207.8 |
| | % Fixture | 4.7 | 0.0 | 4.7 |
| Street Side | Lumens | 4186.2 | 0.0 | 4186.2 |
| | % Fixture | 95.3 | 0.0 | 95.3 |
| Total | Lumens | 4394.0 | 0.0 | 4394.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 86.3 | 2.0 |
| 10°-20° | 233.2 | 5.3 |
| 20°-30° | 403.9 | 9.2 |
| 30°-40° | 697.2 | 15.9 |
| 40°-50° | 1186.6 | 27.0 |
| 50°-60° | 1174.3 | 26.7 |
| 60°-70° | 536.0 | 12.2 |
| 70°-80° | 68.8 | 1.6 |
| 80°-90° | 7.8 | 0.2 |
| 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° | 4394.0 | 100.0 |
| 0°-180° | 4394.0 | 100.0 |

Coefficient of Utilization

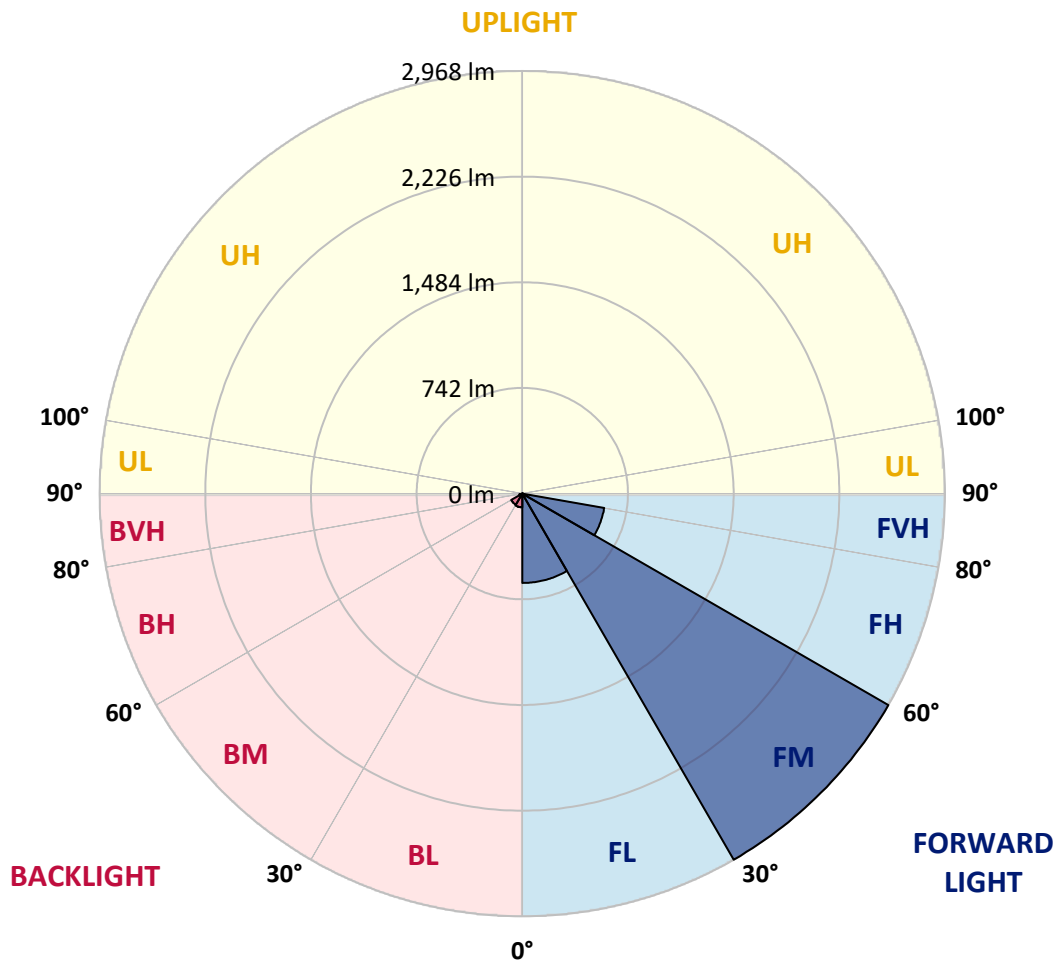


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 627.3 | 14.3 | | | |
| FM (30°-60°) | 2968.0 | 67.5 | | | |
| FH (60°-80°) | 584.0 | 13.3 | | | G0/660 |
| FVH (80°-90°) | 6.9 | 0.2 | | | G0/10 |
| BL (0°-30°) | 96.1 | 2.2 | B0/110 | | |
| BM (30°-60°) | 90.0 | 2.0 | B0/220 | | |
| BH (60°-80°) | 20.8 | 0.5 | 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: B0-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 56° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 976.2 | 976.2 | 976.2 | 976.2 | 976.2 | 976.2 | 976.2 | 976.2 | 976.2 | 976.2 | 976.2 |
| 2.5° | 1240.7 | 1232.1 | 1220.2 | 1211.0 | 1189.4 | 1158.2 | 1125.3 | 1125.3 | 1093.6 | 1049.4 | 1004.4 |
| 5° | 1431.0 | 1425.3 | 1413.8 | 1390.1 | 1365.8 | 1322.2 | 1256.1 | 1244.5 | 1187.9 | 1107.8 | 1023.7 |
| 7.5° | 1508.4 | 1511.0 | 1511.6 | 1505.4 | 1493.8 | 1450.8 | 1385.3 | 1377.3 | 1286.9 | 1179.6 | 1048.9 |
| 10° | 1434.2 | 1447.3 | 1460.0 | 1485.8 | 1522.3 | 1532.7 | 1495.6 | 1487.3 | 1398.4 | 1252.2 | 1076.1 |
| 12.5° | 1324.0 | 1331.1 | 1338.2 | 1378.8 | 1452.0 | 1535.9 | 1574.8 | 1574.5 | 1499.2 | 1324.6 | 1110.8 |
| 15° | 1272.7 | 1278.9 | 1279.5 | 1297.6 | 1361.0 | 1483.2 | 1608.6 | 1613.0 | 1597.6 | 1413.8 | 1148.2 |
| 17.5° | 1283.3 | 1288.4 | 1284.2 | 1288.7 | 1321.9 | 1425.1 | 1604.7 | 1619.5 | 1677.3 | 1499.5 | 1182.0 |
| 20° | 1353.0 | 1362.8 | 1346.8 | 1334.3 | 1344.4 | 1409.6 | 1591.7 | 1612.4 | 1733.7 | 1583.1 | 1212.8 |
| 22.5° | 1478.1 | 1483.5 | 1463.3 | 1429.2 | 1411.4 | 1441.9 | 1588.1 | 1608.6 | 1781.7 | 1651.5 | 1230.6 |
| 25° | 1617.2 | 1615.4 | 1593.1 | 1554.9 | 1517.5 | 1507.2 | 1611.5 | 1629.9 | 1821.4 | 1713.2 | 1235.9 |
| 27.5° | 1756.2 | 1761.5 | 1724.2 | 1676.7 | 1632.0 | 1605.0 | 1664.0 | 1677.6 | 1866.2 | 1783.5 | 1242.4 |
| 30° | 1917.8 | 1909.2 | 1872.4 | 1818.1 | 1766.9 | 1729.2 | 1748.5 | 1752.3 | 1927.8 | 1876.5 | 1259.6 |
| 32.5° | 2127.9 | 2104.2 | 2063.0 | 1968.2 | 1931.4 | 1867.7 | 1872.4 | 1877.1 | 2002.8 | 1968.7 | 1280.4 |
| 35° | 2413.1 | 2411.9 | 2331.3 | 2203.5 | 2114.0 | 2034.9 | 2014.1 | 2018.0 | 2116.4 | 2105.7 | 1326.3 |
| 37.5° | 2756.4 | 2761.2 | 2669.3 | 2540.6 | 2375.8 | 2250.1 | 2207.4 | 2208.0 | 2288.9 | 2294.8 | 1396.3 |
| 40° | 3036.0 | 3048.4 | 2993.6 | 2906.7 | 2744.0 | 2547.4 | 2475.7 | 2469.2 | 2531.4 | 2524.0 | 1496.2 |
| 42.5° | 3156.3 | 3167.9 | 3188.4 | 3218.6 | 3129.1 | 2966.9 | 2797.6 | 2806.5 | 2825.5 | 2773.6 | 1608.3 |
| 45° | 3097.3 | 3115.7 | 3196.1 | 3382.8 | 3467.0 | 3412.5 | 3210.6 | 3179.5 | 3099.1 | 3044.9 | 1720.9 |
| 47.5° | 2851.6 | 2896.3 | 3030.6 | 3341.6 | 3636.3 | 3820.7 | 3676.6 | 3635.4 | 3373.0 | 3242.9 | 1792.7 |
| 50° | 2447.5 | 2450.2 | 2637.2 | 3034.8 | 3548.5 | 4078.3 | 4152.4 | 4121.6 | 3628.3 | 3354.1 | 1828.8 |
| 52.5° | 1774.3 | 1832.7 | 2004.0 | 2464.4 | 3168.5 | 4039.2 | 4455.7 | 4442.9 | 3891.5 | 3411.0 | 1881.0 |
| 54° | 1348.9 | 1360.1 | 1512.5 | 1969.3 | 2731.8 | 3824.2 | 4474.4 | 4477.3 | 4022.3 | 3445.4 | 1911.8 |
| 55° | 1105.8 | 1078.8 | 1238.9 | 1677.6 | 2433.9 | 3634.2 | 4413.3 | 4427.5 | 4081.0 | 3463.2 | 1934.7 |
| 57.5° | 524.1 | 524.4 | 646.9 | 884.9 | 1524.4 | 2821.9 | 4040.1 | 4090.5 | 4087.5 | 3493.7 | 2004.9 |
| 60° | 265.3 | 267.1 | 294.1 | 408.5 | 753.0 | 1876.0 | 3340.4 | 3460.5 | 3773.0 | 3498.1 | 2028.0 |
| 62.5° | 185.6 | 183.5 | 179.1 | 196.5 | 316.9 | 953.4 | 2486.9 | 2591.3 | 3205.5 | 3328.9 | 1954.5 |
| 65° | 158.9 | 154.5 | 142.0 | 139.3 | 160.1 | 379.8 | 1549.0 | 1719.1 | 2447.5 | 2882.4 | 1745.2 |
| 67.5° | 135.8 | 134.0 | 122.7 | 115.9 | 113.2 | 165.4 | 799.2 | 888.8 | 1672.9 | 2071.9 | 1321.9 |
| 70° | 115.3 | 114.4 | 107.6 | 99.0 | 91.6 | 99.0 | 296.5 | 367.3 | 932.3 | 1115.6 | 623.7 |
| 72.5° | 93.7 | 94.6 | 95.8 | 84.8 | 77.1 | 70.3 | 126.6 | 147.3 | 390.1 | 398.7 | 218.2 |
| 75° | 82.1 | 81.2 | 81.2 | 73.8 | 64.3 | 52.2 | 69.7 | 75.0 | 119.5 | 110.9 | 50.7 |
| 77.5° | 57.8 | 55.7 | 65.2 | 60.8 | 53.7 | 37.1 | 39.7 | 42.1 | 49.5 | 42.4 | 23.7 |
| 80° | 40.0 | 40.0 | 41.8 | 54.5 | 48.3 | 27.0 | 24.3 | 26.1 | 29.3 | 25.2 | 13.6 |
| 82.5° | 22.5 | 23.1 | 27.3 | 29.1 | 28.2 | 18.1 | 16.0 | 16.3 | 19.6 | 17.2 | 8.6 |
| 85° | 2.7 | 4.4 | 15.7 | 15.4 | 11.6 | 8.0 | 8.9 | 9.2 | 12.2 | 10.7 | 5.0 |
| 87.5° | 0.3 | 0.6 | 3.3 | 4.2 | 3.0 | 3.3 | 3.3 | 3.3 | 4.2 | 4.7 | 3.6 |
| 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° | 976.2 | 976.2 | 976.2 | 976.2 | 976.2 | 976.2 | 976.2 | 976.2 | 976.2 | 976.2 | 976.2 |
| 2.5° | 980.1 | 957.5 | 903.9 | 841.6 | 801.9 | 737.3 | 682.7 | 643.3 | 633.5 | 614.5 | 620.2 |
| 5° | 978.9 | 932.0 | 822.7 | 707.0 | 583.7 | 491.8 | 423.3 | 369.4 | 345.7 | 330.0 | 319.0 |
| 7.5° | 979.5 | 906.3 | 730.8 | 546.7 | 399.3 | 309.2 | 245.8 | 212.9 | 190.9 | 181.7 | 182.9 |
| 10° | 981.3 | 877.2 | 624.0 | 405.0 | 269.5 | 199.8 | 161.0 | 145.3 | 137.9 | 136.7 | 136.4 |
| 12.5° | 985.4 | 845.5 | 522.1 | 300.6 | 188.5 | 145.3 | 130.4 | 125.1 | 122.7 | 122.7 | 121.8 |
| 15° | 989.9 | 810.5 | 437.3 | 223.5 | 145.3 | 124.8 | 118.0 | 115.3 | 113.8 | 113.8 | 113.5 |
| 17.5° | 989.9 | 770.2 | 358.1 | 173.4 | 125.1 | 114.7 | 109.4 | 105.8 | 104.6 | 104.6 | 104.4 |
| 20° | 983.6 | 723.3 | 287.9 | 139.6 | 113.5 | 105.2 | 99.9 | 96.1 | 94.6 | 94.0 | 93.7 |
| 22.5° | 962.0 | 660.8 | 229.2 | 120.1 | 104.1 | 96.9 | 90.1 | 85.7 | 84.5 | 83.9 | 84.2 |
| 25° | 923.5 | 590.2 | 181.4 | 105.5 | 95.5 | 86.9 | 80.9 | 77.7 | 76.5 | 76.5 | 76.8 |
| 27.5° | 883.7 | 516.4 | 143.8 | 94.6 | 85.1 | 77.4 | 72.6 | 70.6 | 70.3 | 71.1 | 71.4 |
| 30° | 847.0 | 442.3 | 116.5 | 85.7 | 75.9 | 69.4 | 66.1 | 65.5 | 65.5 | 65.8 | 66.1 |
| 32.5° | 806.1 | 377.4 | 97.5 | 78.0 | 68.5 | 62.8 | 61.1 | 61.1 | 61.7 | 61.7 | 62.3 |
| 35° | 780.3 | 321.7 | 85.7 | 70.6 | 62.8 | 58.1 | 56.9 | 57.2 | 58.1 | 59.3 | 59.9 |
| 37.5° | 766.3 | 277.2 | 78.0 | 64.6 | 57.5 | 54.3 | 53.1 | 53.7 | 55.7 | 57.8 | 58.1 |
| 40° | 767.5 | 243.7 | 71.7 | 59.6 | 53.4 | 49.8 | 48.9 | 50.7 | 52.8 | 54.8 | 55.1 |
| 42.5° | 780.6 | 218.8 | 65.8 | 53.7 | 49.8 | 44.8 | 44.5 | 46.2 | 47.1 | 49.2 | 49.5 |
| 45° | 796.0 | 200.7 | 59.6 | 47.4 | 43.3 | 38.8 | 39.1 | 40.6 | 41.8 | 45.1 | 45.7 |
| 47.5° | 800.7 | 188.2 | 52.5 | 40.3 | 35.6 | 34.1 | 34.4 | 35.3 | 37.6 | 40.6 | 40.9 |
| 50° | 806.1 | 180.5 | 45.7 | 34.1 | 30.2 | 29.9 | 30.2 | 30.8 | 32.3 | 33.5 | 33.2 |
| 52.5° | 828.9 | 180.2 | 40.0 | 29.6 | 25.8 | 26.4 | 26.7 | 26.4 | 25.2 | 23.4 | 22.8 |
| 54° | 850.2 | 181.1 | 37.4 | 27.6 | 23.7 | 24.6 | 24.3 | 22.8 | 19.9 | 18.1 | 17.2 |
| 55° | 867.4 | 182.0 | 35.9 | 26.1 | 22.5 | 22.8 | 23.1 | 20.2 | 16.3 | 14.5 | 13.9 |
| 57.5° | 901.2 | 179.9 | 32.3 | 22.8 | 19.9 | 18.7 | 18.4 | 13.3 | 8.9 | 7.7 | 7.1 |
| 60° | 884.3 | 162.5 | 29.3 | 19.6 | 16.9 | 15.1 | 12.5 | 7.4 | 4.4 | 3.3 | 3.3 |
| 62.5° | 817.9 | 137.9 | 26.1 | 16.0 | 13.9 | 11.6 | 6.5 | 4.2 | 2.1 | 1.2 | 0.9 |
| 65° | 731.6 | 115.9 | 23.4 | 12.7 | 11.0 | 7.4 | 3.6 | 2.7 | 0.9 | 0.0 | 0.0 |
| 67.5° | 544.0 | 86.0 | 19.9 | 10.1 | 8.3 | 4.7 | 2.4 | 1.5 | 0.3 | 0.0 | 0.0 |
| 70° | 252.0 | 52.5 | 16.9 | 7.7 | 5.9 | 3.6 | 1.8 | 0.9 | 0.0 | 0.0 | 0.0 |
| 72.5° | 72.3 | 32.9 | 13.9 | 5.6 | 4.2 | 3.0 | 1.5 | 0.6 | 0.3 | 0.0 | 0.0 |
| 75° | 25.2 | 26.4 | 10.4 | 4.2 | 3.3 | 2.1 | 1.2 | 0.6 | 0.3 | 0.0 | 0.0 |
| 77.5° | 15.1 | 21.3 | 6.5 | 3.6 | 2.7 | 1.8 | 1.2 | 0.6 | 0.3 | 0.3 | 0.0 |
| 80° | 8.6 | 14.2 | 4.2 | 3.0 | 2.4 | 1.5 | 0.9 | 0.6 | 0.3 | 0.3 | 0.0 |
| 82.5° | 4.7 | 6.8 | 3.3 | 2.7 | 2.1 | 1.5 | 0.9 | 0.6 | 0.3 | 0.3 | 0.3 |
| 85° | 3.9 | 3.6 | 2.7 | 2.4 | 1.8 | 1.2 | 0.9 | 0.3 | 0.0 | 0.0 | 0.0 |
| 87.5° | 3.0 | 2.4 | 2.4 | 2.4 | 1.8 | 1.2 | 0.9 | 0.3 | 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)