

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: P192560

Luminaire Tested: **GAN-AF-02-LED-U-5MQ-7030-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-5MQ-7030-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13573.3 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 129
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: 28.75 FT

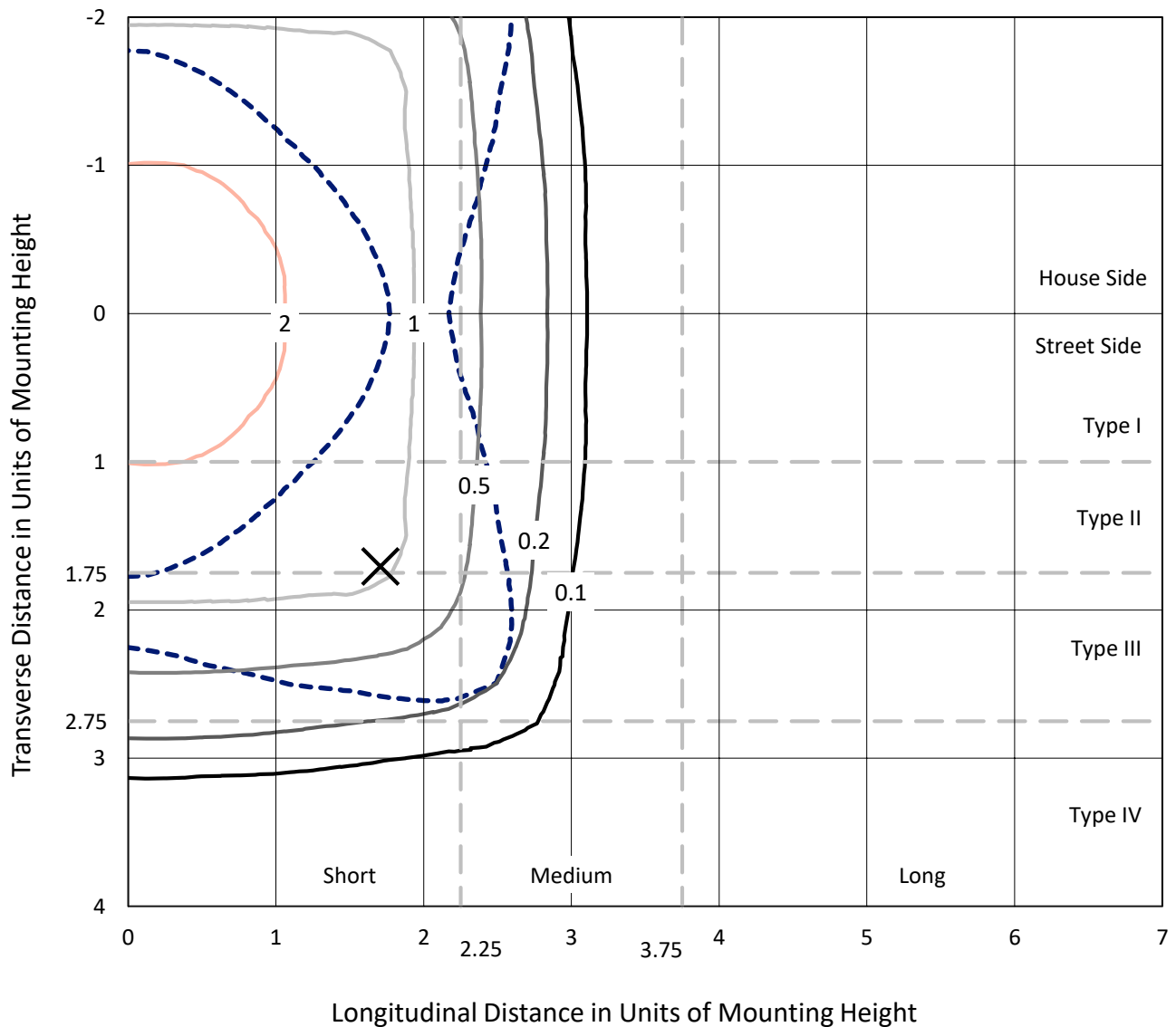


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

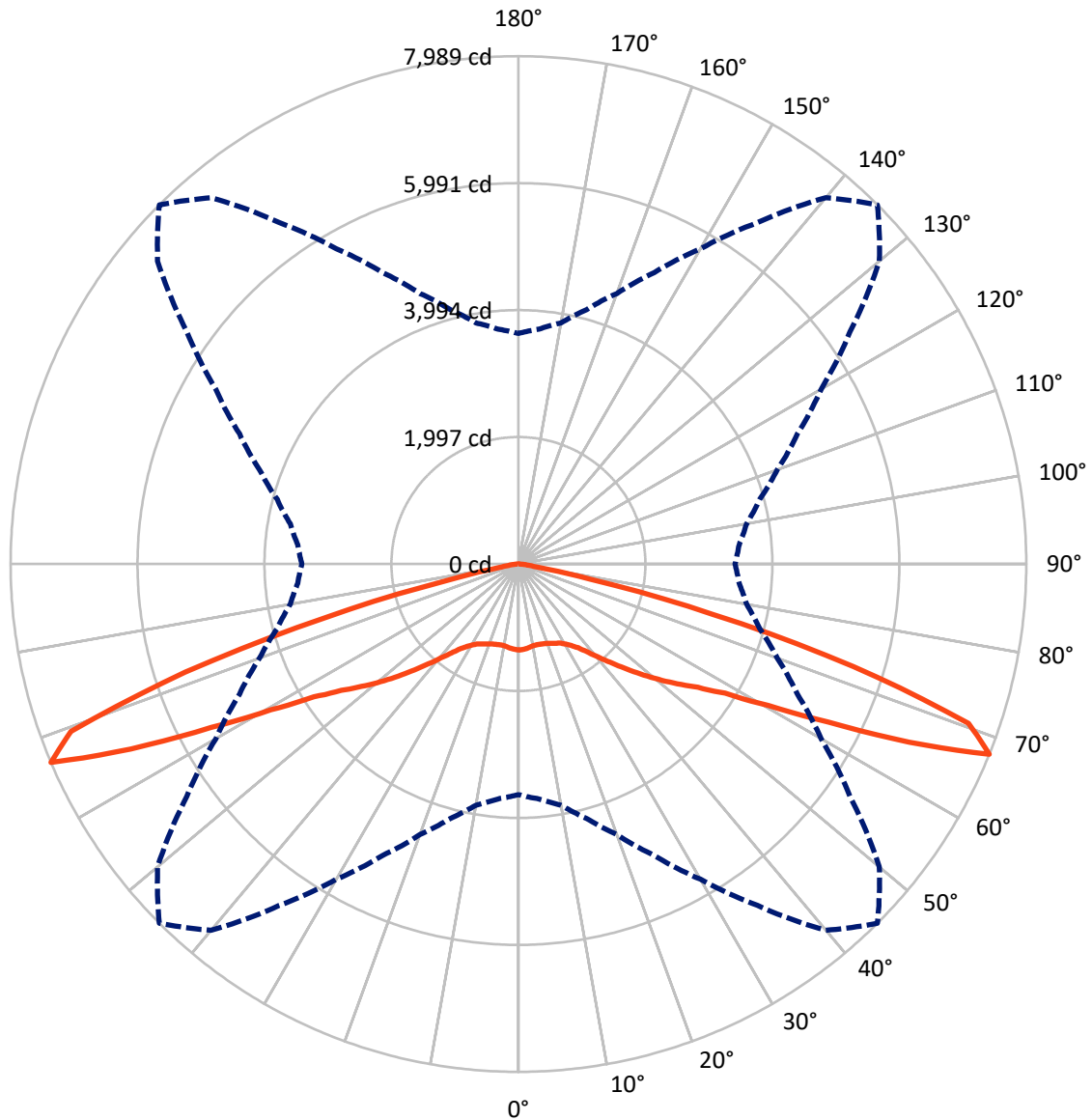


Based on 20 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6786.6 | 0.0 | 6786.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6786.6 | 0.0 | 6786.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 13573.3 | 0.0 | 13573.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 126.6 | 0.9 |
| 10°-20° | 367.4 | 2.7 |
| 20°-30° | 624.5 | 4.6 |
| 30°-40° | 1020.9 | 7.5 |
| 40°-50° | 1822.5 | 13.4 |
| 50°-60° | 3072.8 | 22.6 |
| 60°-70° | 4768.5 | 35.1 |
| 70°-80° | 1675.4 | 12.3 |
| 80°-90° | 94.7 | 0.7 |
| 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° | 13573.3 | 100.0 |
| 0°-180° | 13573.3 | 100.0 |



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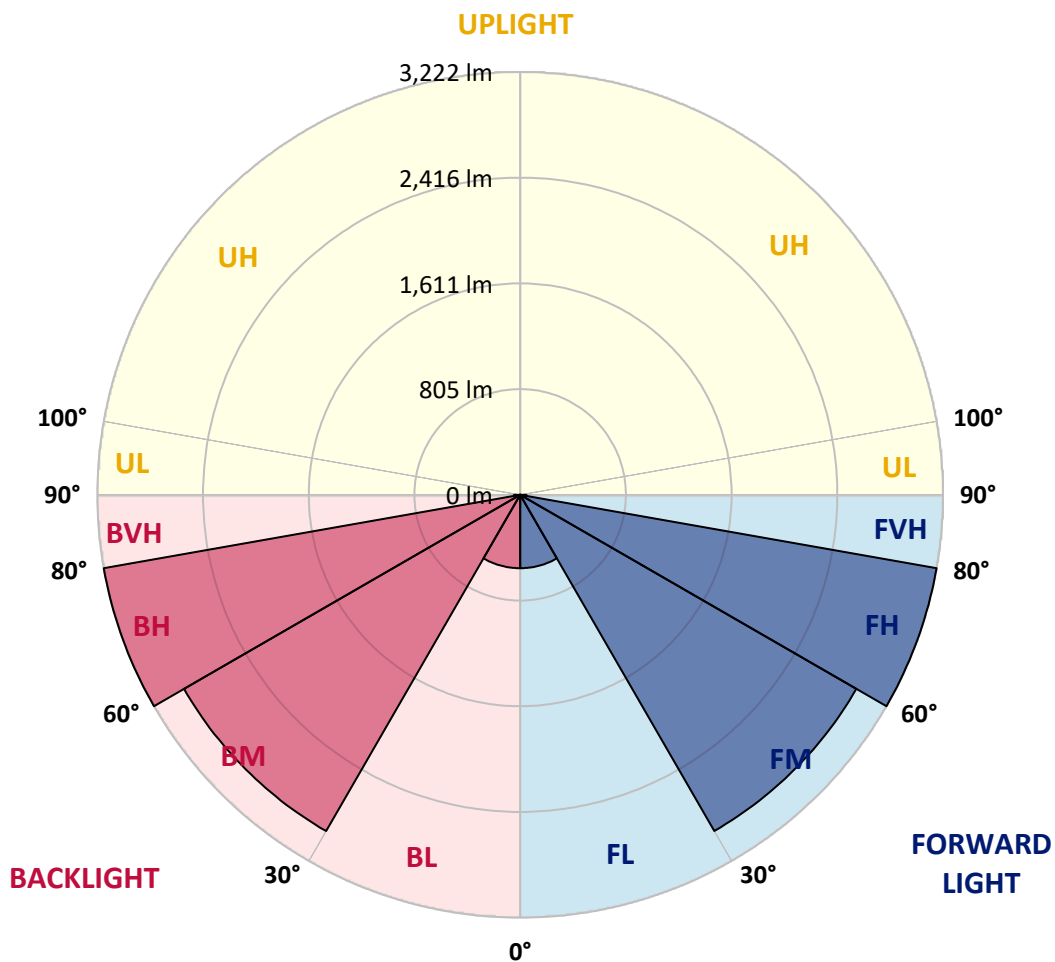
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 559.2 | 4.1 | | | |
| FM (30°-60°) | 2958.1 | 21.8 | | | |
| FH (60°-80°) | 3222.0 | 23.7 | | | G2/5000 |
| FVH (80°-90°) | 47.3 | 0.3 | | | G1/100 |
| BL (0°-30°) | 559.2 | 4.1 | B2/1000 | | |
| BM (30°-60°) | 2958.1 | 21.8 | B3/5000 | | |
| BH (60°-80°) | 3222.0 | 23.7 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 47.3 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1352.6 | 1352.6 | 1352.6 | 1352.6 | 1352.6 | 1352.6 | 1352.6 | 1352.6 | 1352.6 | 1352.6 | 1352.6 |
| 2.5° | 1347.6 | 1349.0 | 1349.0 | 1349.0 | 1348.3 | 1348.3 | 1347.0 | 1348.3 | 1347.6 | 1345.7 | 1346.4 |
| 5° | 1336.5 | 1337.7 | 1337.7 | 1337.0 | 1338.9 | 1338.3 | 1336.5 | 1337.7 | 1337.0 | 1335.8 | 1336.5 |
| 7.5° | 1320.2 | 1322.0 | 1322.0 | 1321.4 | 1323.3 | 1322.7 | 1321.4 | 1322.0 | 1322.0 | 1320.2 | 1320.2 |
| 10° | 1302.1 | 1303.4 | 1303.4 | 1302.7 | 1305.8 | 1305.8 | 1305.2 | 1307.1 | 1307.8 | 1305.8 | 1304.5 |
| 12.5° | 1285.2 | 1287.1 | 1287.1 | 1289.6 | 1292.7 | 1293.9 | 1297.1 | 1299.5 | 1302.1 | 1301.5 | 1299.0 |
| 15° | 1275.3 | 1276.4 | 1279.0 | 1282.0 | 1287.1 | 1291.5 | 1296.5 | 1302.1 | 1307.1 | 1308.3 | 1304.5 |
| 17.5° | 1269.0 | 1270.9 | 1274.6 | 1279.0 | 1285.9 | 1293.3 | 1300.8 | 1308.3 | 1315.2 | 1317.6 | 1313.3 |
| 20° | 1267.1 | 1268.4 | 1272.1 | 1279.7 | 1288.9 | 1300.1 | 1310.8 | 1319.6 | 1328.9 | 1332.1 | 1328.9 |
| 22.5° | 1270.9 | 1273.3 | 1277.7 | 1286.4 | 1299.0 | 1313.3 | 1325.8 | 1337.7 | 1349.5 | 1355.2 | 1350.8 |
| 25° | 1287.7 | 1290.3 | 1295.9 | 1307.1 | 1320.8 | 1335.8 | 1350.1 | 1363.9 | 1374.5 | 1380.1 | 1377.0 |
| 27.5° | 1319.0 | 1322.0 | 1328.9 | 1340.2 | 1355.2 | 1371.3 | 1386.9 | 1398.2 | 1406.9 | 1408.8 | 1405.1 |
| 30° | 1365.7 | 1372.7 | 1380.7 | 1393.2 | 1410.6 | 1424.4 | 1440.0 | 1450.0 | 1460.6 | 1460.6 | 1457.5 |
| 32.5° | 1438.7 | 1445.6 | 1454.4 | 1466.3 | 1479.9 | 1495.0 | 1508.7 | 1517.4 | 1528.6 | 1529.3 | 1521.8 |
| 35° | 1547.9 | 1551.2 | 1558.6 | 1566.1 | 1578.6 | 1591.7 | 1603.6 | 1609.2 | 1618.5 | 1619.1 | 1612.3 |
| 37.5° | 1692.2 | 1692.9 | 1697.8 | 1700.3 | 1711.5 | 1725.9 | 1737.1 | 1740.9 | 1749.7 | 1748.3 | 1741.5 |
| 40° | 1860.1 | 1863.2 | 1865.0 | 1868.9 | 1880.7 | 1894.4 | 1906.2 | 1908.2 | 1917.5 | 1915.7 | 1906.9 |
| 42.5° | 2054.2 | 2055.5 | 2066.1 | 2071.7 | 2082.9 | 2089.8 | 2104.8 | 2106.6 | 2117.9 | 2112.8 | 2102.9 |
| 45° | 2272.0 | 2283.3 | 2293.4 | 2304.5 | 2316.4 | 2324.5 | 2336.4 | 2333.9 | 2341.3 | 2333.9 | 2328.2 |
| 47.5° | 2501.2 | 2509.2 | 2531.7 | 2549.2 | 2568.5 | 2575.5 | 2592.2 | 2584.7 | 2592.2 | 2581.7 | 2579.8 |
| 50° | 2753.4 | 2767.6 | 2786.9 | 2807.0 | 2827.6 | 2838.9 | 2860.7 | 2851.3 | 2861.3 | 2851.3 | 2845.7 |
| 52.5° | 3001.8 | 3005.5 | 3048.0 | 3077.3 | 3106.0 | 3119.2 | 3132.3 | 3127.9 | 3128.4 | 3127.9 | 3122.2 |
| 55° | 3237.7 | 3246.4 | 3288.9 | 3328.8 | 3378.8 | 3415.6 | 3438.1 | 3435.5 | 3429.9 | 3424.3 | 3415.0 |
| 57.5° | 3503.6 | 3512.3 | 3561.1 | 3610.4 | 3667.2 | 3719.6 | 3765.2 | 3811.9 | 3830.1 | 3835.1 | 3814.5 |
| 60° | 3863.2 | 3862.6 | 3927.5 | 3987.4 | 4068.5 | 4146.5 | 4246.4 | 4348.2 | 4464.9 | 4519.2 | 4447.4 |
| 62.5° | 4228.9 | 4243.9 | 4337.6 | 4443.7 | 4611.0 | 4773.9 | 4957.9 | 5139.0 | 5323.7 | 5474.2 | 5314.4 |
| 65° | 4185.2 | 4242.6 | 4381.9 | 4622.2 | 4931.2 | 5298.2 | 5695.1 | 6115.2 | 6494.8 | 6755.7 | 6462.9 |
| 67.5° | 3627.2 | 3709.1 | 3850.7 | 4142.8 | 4529.2 | 5058.4 | 5725.1 | 6556.0 | 7521.5 | 7988.5 | 7409.9 |
| 70° | 2629.1 | 2721.5 | 2870.0 | 3155.3 | 3538.0 | 4041.1 | 4765.2 | 5762.6 | 7040.8 | 7511.6 | 6874.3 |
| 72.5° | 1308.3 | 1358.2 | 1450.0 | 1631.7 | 1921.4 | 2329.5 | 2986.2 | 3945.0 | 5075.9 | 5507.9 | 4925.5 |
| 75° | 444.4 | 467.5 | 483.2 | 542.5 | 634.1 | 794.7 | 1121.1 | 1724.6 | 2631.0 | 3154.1 | 2593.5 |
| 77.5° | 256.5 | 257.2 | 267.8 | 278.4 | 294.0 | 311.5 | 355.2 | 466.3 | 806.5 | 1145.4 | 834.5 |
| 80° | 166.1 | 165.4 | 174.2 | 182.3 | 192.9 | 201.6 | 204.1 | 216.0 | 249.0 | 295.2 | 264.1 |
| 82.5° | 86.1 | 96.8 | 116.2 | 126.7 | 146.7 | 150.4 | 145.5 | 141.1 | 149.1 | 154.8 | 158.5 |
| 85° | 47.4 | 41.2 | 61.8 | 79.9 | 88.6 | 89.9 | 89.9 | 84.9 | 88.1 | 86.1 | 93.6 |
| 87.5° | 21.9 | 20.0 | 24.4 | 39.4 | 41.8 | 35.6 | 37.4 | 33.1 | 23.7 | 23.1 | 26.2 |
| 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):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1352.6 | 1352.6 | 1352.6 | 1352.6 | 1352.6 | 1352.6 | 1352.6 | 1352.6 |
| 2.5° | 1346.4 | 1347.0 | 1347.0 | 1349.0 | 1349.5 | 1350.8 | 1352.0 | 1352.6 |
| 5° | 1335.8 | 1337.7 | 1336.5 | 1338.3 | 1338.3 | 1339.5 | 1339.5 | 1340.2 |
| 7.5° | 1320.2 | 1322.0 | 1322.0 | 1322.0 | 1321.4 | 1323.3 | 1323.3 | 1323.3 |
| 10° | 1303.9 | 1305.2 | 1304.5 | 1303.4 | 1302.1 | 1303.9 | 1303.4 | 1302.7 |
| 12.5° | 1299.0 | 1295.9 | 1293.3 | 1292.1 | 1289.6 | 1290.3 | 1288.3 | 1288.3 |
| 15° | 1302.1 | 1296.5 | 1292.1 | 1290.3 | 1287.7 | 1286.4 | 1285.2 | 1285.9 |
| 17.5° | 1310.2 | 1303.4 | 1297.7 | 1294.6 | 1291.5 | 1289.6 | 1287.1 | 1287.7 |
| 20° | 1324.5 | 1316.5 | 1308.3 | 1302.1 | 1296.5 | 1293.3 | 1291.5 | 1290.8 |
| 22.5° | 1345.7 | 1333.9 | 1322.0 | 1312.6 | 1305.2 | 1300.8 | 1299.0 | 1297.7 |
| 25° | 1370.1 | 1357.0 | 1343.3 | 1332.6 | 1325.2 | 1319.6 | 1315.8 | 1315.8 |
| 27.5° | 1400.7 | 1390.1 | 1377.6 | 1365.0 | 1358.2 | 1352.6 | 1350.1 | 1349.0 |
| 30° | 1451.8 | 1441.9 | 1432.0 | 1420.1 | 1411.3 | 1405.7 | 1401.4 | 1397.5 |
| 32.5° | 1517.4 | 1509.3 | 1501.2 | 1492.5 | 1484.3 | 1476.8 | 1470.0 | 1467.0 |
| 35° | 1609.8 | 1603.6 | 1597.9 | 1588.0 | 1584.8 | 1580.4 | 1576.7 | 1573.6 |
| 37.5° | 1737.1 | 1734.6 | 1734.6 | 1724.0 | 1721.5 | 1719.6 | 1715.9 | 1716.6 |
| 40° | 1904.4 | 1906.9 | 1903.9 | 1900.0 | 1898.2 | 1893.1 | 1893.1 | 1897.5 |
| 42.5° | 2102.2 | 2104.2 | 2111.0 | 2104.8 | 2111.7 | 2105.4 | 2101.7 | 2104.8 |
| 45° | 2332.0 | 2338.9 | 2352.6 | 2346.4 | 2350.7 | 2340.2 | 2327.0 | 2327.7 |
| 47.5° | 2589.8 | 2596.0 | 2601.7 | 2597.3 | 2597.8 | 2580.3 | 2563.0 | 2558.7 |
| 50° | 2857.5 | 2860.1 | 2863.1 | 2856.9 | 2858.2 | 2838.9 | 2818.9 | 2819.6 |
| 52.5° | 3122.2 | 3134.1 | 3146.5 | 3129.7 | 3126.0 | 3104.2 | 3076.0 | 3064.8 |
| 55° | 3425.0 | 3441.7 | 3427.5 | 3398.2 | 3368.8 | 3339.4 | 3302.6 | 3296.4 |
| 57.5° | 3798.3 | 3769.6 | 3724.5 | 3669.0 | 3628.5 | 3587.3 | 3549.9 | 3534.2 |
| 60° | 4317.6 | 4209.5 | 4128.5 | 4046.1 | 3994.2 | 3943.7 | 3894.3 | 3886.9 |
| 62.5° | 5051.6 | 4865.0 | 4703.3 | 4532.9 | 4393.8 | 4285.1 | 4198.4 | 4174.0 |
| 65° | 5971.7 | 5530.3 | 5147.8 | 4790.7 | 4480.5 | 4246.4 | 4099.1 | 4034.2 |
| 67.5° | 6367.4 | 5496.1 | 4840.0 | 4333.2 | 3927.5 | 3644.1 | 3485.0 | 3405.6 |
| 70° | 5595.2 | 4557.9 | 3844.4 | 3337.0 | 2967.5 | 2665.3 | 2521.1 | 2436.3 |
| 72.5° | 3849.4 | 2899.4 | 2292.7 | 1871.4 | 1576.1 | 1323.3 | 1223.3 | 1215.9 |
| 75° | 1728.4 | 1144.8 | 789.0 | 607.9 | 511.9 | 445.0 | 424.5 | 408.8 |
| 77.5° | 483.8 | 357.8 | 318.9 | 298.4 | 278.4 | 255.3 | 246.6 | 248.4 |
| 80° | 235.4 | 222.3 | 213.5 | 200.4 | 182.3 | 162.9 | 154.2 | 157.9 |
| 82.5° | 156.0 | 154.2 | 159.8 | 150.4 | 124.2 | 105.4 | 88.6 | 81.2 |
| 85° | 94.8 | 96.1 | 98.0 | 98.7 | 83.7 | 58.7 | 40.0 | 44.9 |
| 87.5° | 37.4 | 43.0 | 46.8 | 48.7 | 45.6 | 28.1 | 22.5 | 23.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)