

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: P191783

Luminaire Tested: **GAN-AF-05-LED-U-AFL-7050-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191783
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-AFL-7050-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33481 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 320
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

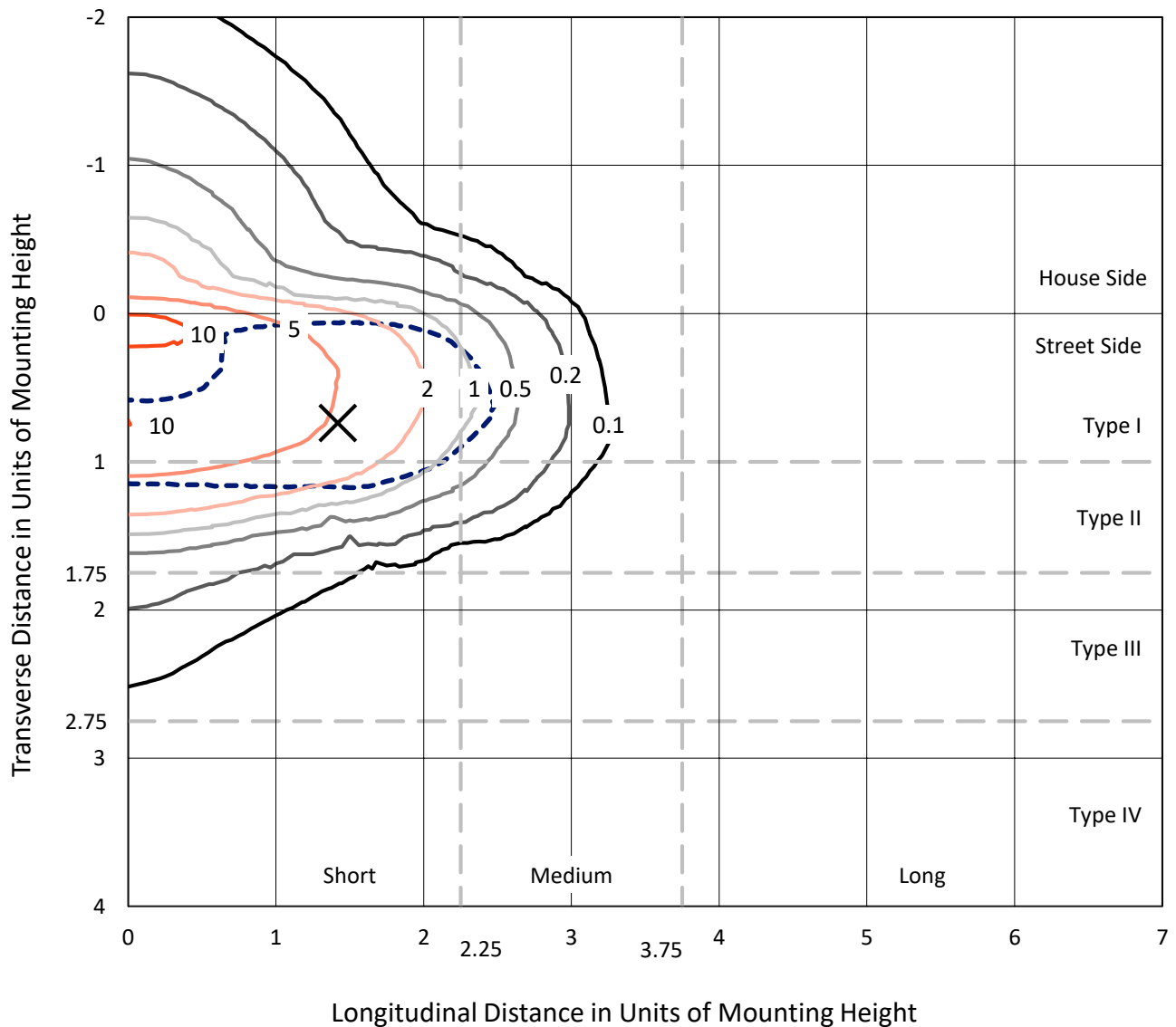


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Iso-Footcandle Lines of Horizontal Illumination

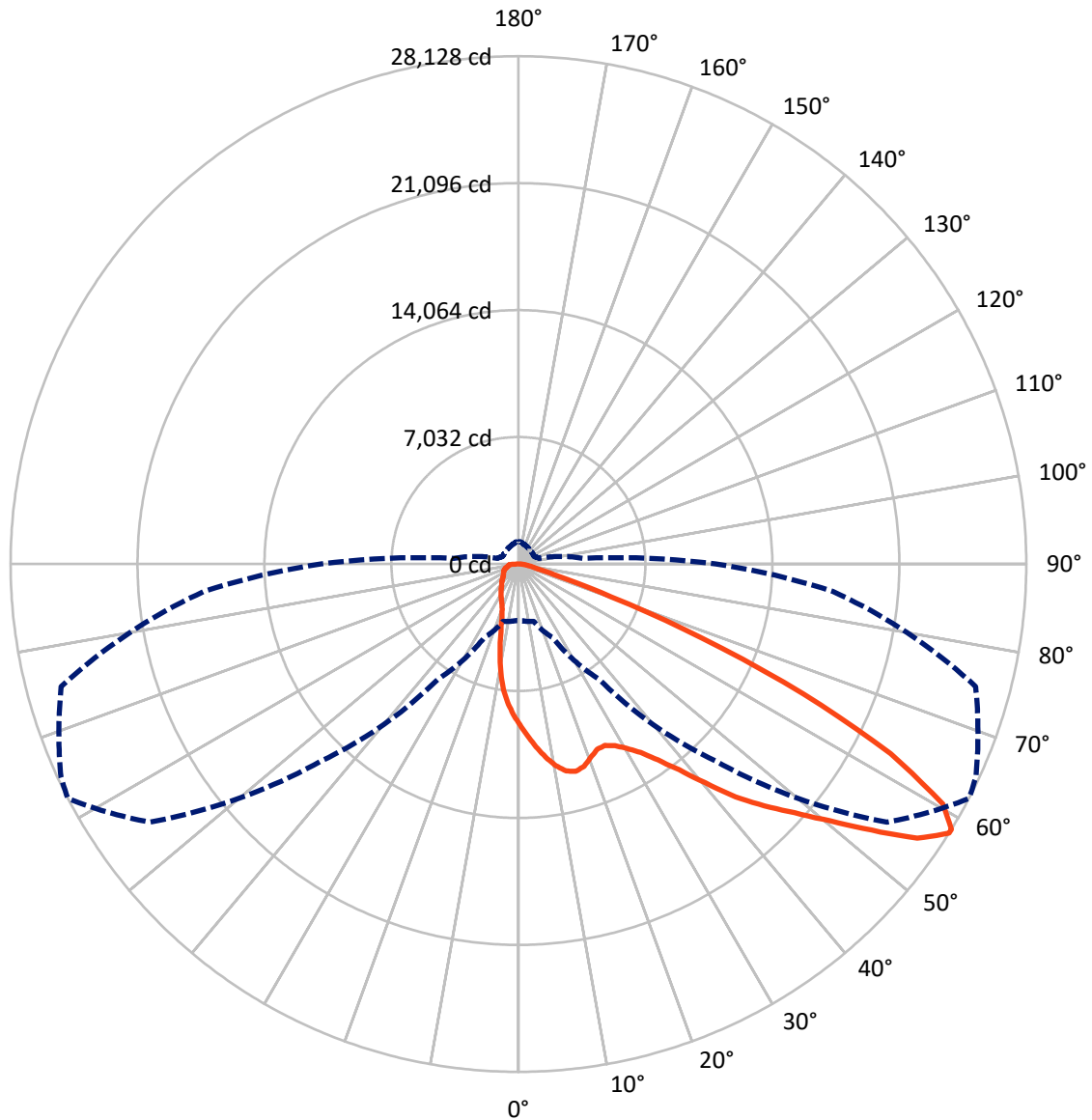
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5106.0 | 0.0 | 5106.0 |
| | % Fixture | 15.3 | 0.0 | 15.3 |
| Street Side | Lumens | 28375.0 | 0.0 | 28375.0 |
| | % Fixture | 84.7 | 0.0 | 84.7 |
| Total | Lumens | 33481.0 | 0.0 | 33481.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 795.4 | 2.4 |
| 10°-20° | 2033.2 | 6.1 |
| 20°-30° | 3286.7 | 9.8 |
| 30°-40° | 5217.6 | 15.6 |
| 40°-50° | 7634.4 | 22.8 |
| 50°-60° | 7984.9 | 23.8 |
| 60°-70° | 4717.5 | 14.1 |
| 70°-80° | 1328.9 | 4.0 |
| 80°-90° | 482.5 | 1.4 |
| 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° | 33481.0 | 100.0 |
| 0°-180° | 33481.0 | 100.0 |

Coefficient of Utilization



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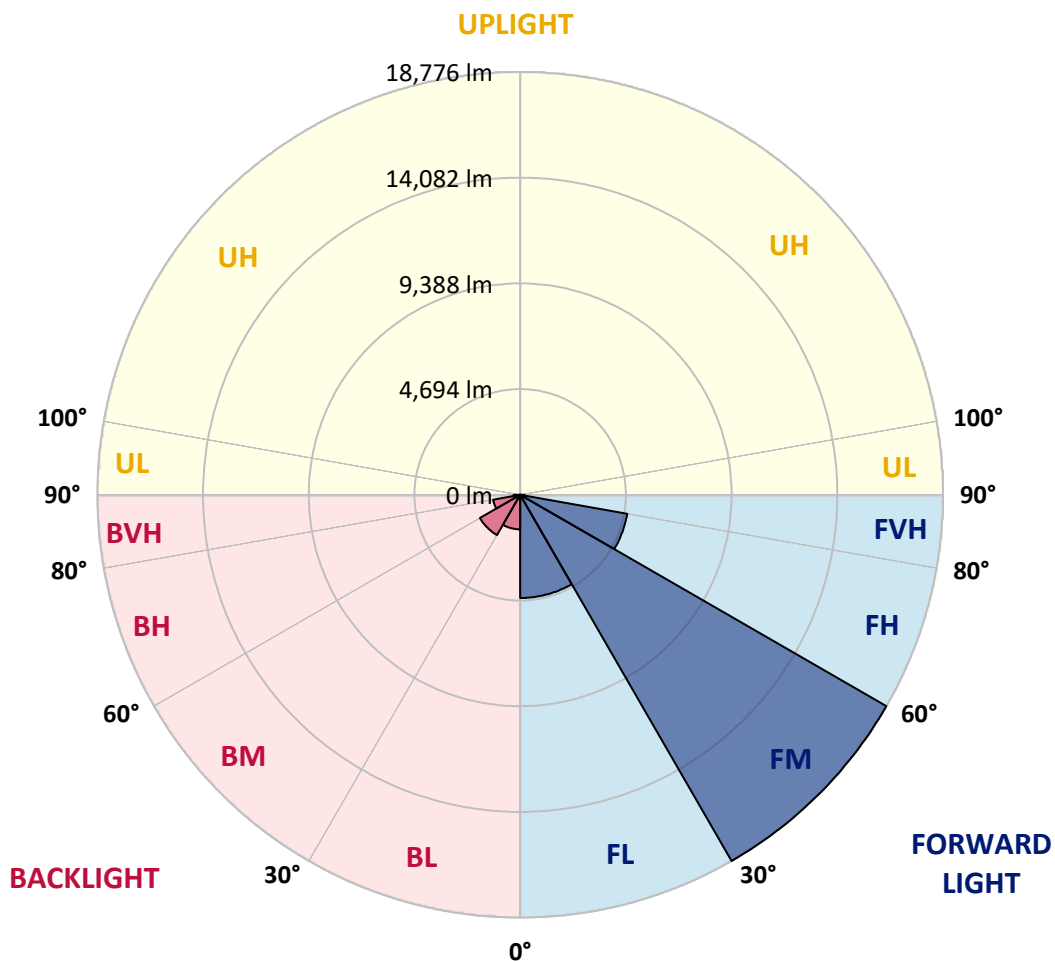
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 4580.6 | 13.7 | | | |
| FM | (30°-60°) | 18776.0 | 56.1 | | | |
| FH | (60°-80°) | 4828.1 | 14.4 | | | G2/5000 |
| FVH | (80°-90°) | 190.3 | 0.6 | | | G2/225 |
| BL | (0°-30°) | 1534.6 | 4.6 | B3/2500 | | |
| BM | (30°-60°) | 2060.9 | 6.2 | B2/2500 | | |
| BH | (60°-80°) | 1218.3 | 3.6 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 292.1 | 0.9 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 62.5° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8893.5 | 8893.5 | 8893.5 | 8893.5 | 8893.5 | 8893.5 | 8893.5 | 8893.5 | 8893.5 | 8893.5 | 8893.5 |
| 2.5° | 10162.7 | 10080.7 | 10028.7 | 9983.0 | 9923.1 | 9795.4 | 9623.5 | 9514.7 | 9459.5 | 9271.9 | 9049.6 |
| 5° | 11159.1 | 11086.6 | 11033.0 | 10971.5 | 10864.3 | 10664.1 | 10386.6 | 10165.9 | 10057.1 | 9681.8 | 9237.2 |
| 7.5° | 10925.8 | 10955.7 | 11048.7 | 11211.1 | 11349.9 | 11323.1 | 11075.5 | 10794.9 | 10651.4 | 10129.6 | 9454.8 |
| 10° | 9519.5 | 9571.5 | 9732.3 | 10112.3 | 10727.1 | 11357.8 | 11550.1 | 11356.2 | 11211.1 | 10572.6 | 9678.7 |
| 12.5° | 9237.2 | 9235.7 | 9248.3 | 9349.2 | 9714.9 | 10602.6 | 11565.9 | 11761.4 | 11674.7 | 10995.1 | 9907.3 |
| 15° | 9352.3 | 9355.5 | 9346.0 | 9388.6 | 9502.1 | 9853.7 | 11083.4 | 11917.4 | 11978.9 | 11420.8 | 10143.8 |
| 17.5° | 9655.0 | 9647.2 | 9610.9 | 9610.9 | 9651.9 | 9789.0 | 10515.9 | 11772.4 | 12056.2 | 11797.6 | 10351.9 |
| 20° | 10162.7 | 10126.4 | 10030.3 | 9942.0 | 9897.8 | 9971.9 | 10282.5 | 11438.2 | 11922.2 | 12127.1 | 10523.7 |
| 22.5° | 10777.6 | 10749.2 | 10593.1 | 10403.9 | 10251.0 | 10249.4 | 10402.3 | 11146.5 | 11690.4 | 12437.7 | 10668.8 |
| 25° | 11572.2 | 11526.5 | 11294.7 | 10992.0 | 10724.0 | 10621.5 | 10664.1 | 11132.3 | 11564.3 | 12775.1 | 10798.1 |
| 27.5° | 12505.5 | 12422.0 | 12147.6 | 11710.9 | 11316.8 | 11110.2 | 11048.7 | 11389.3 | 11679.4 | 13192.9 | 10977.8 |
| 30° | 13637.5 | 13541.3 | 13189.8 | 12620.6 | 12064.1 | 11725.1 | 11594.2 | 11844.9 | 12060.9 | 13702.1 | 11266.3 |
| 32.5° | 14925.6 | 14786.8 | 14380.1 | 13752.6 | 13021.1 | 12503.9 | 12291.1 | 12447.2 | 12619.0 | 14315.4 | 11627.4 |
| 35° | 16705.6 | 16540.0 | 15951.9 | 15086.4 | 14260.3 | 13549.2 | 13208.7 | 13322.2 | 13489.3 | 15229.9 | 12149.2 |
| 37.5° | 17919.5 | 17845.4 | 17454.4 | 16640.9 | 15742.3 | 14924.0 | 14397.4 | 14463.6 | 14558.2 | 16372.9 | 12817.7 |
| 40° | 17908.5 | 17938.4 | 17946.3 | 17954.2 | 17342.5 | 16558.9 | 15992.9 | 15923.6 | 15904.6 | 17627.9 | 13577.6 |
| 42.5° | 17011.4 | 17134.4 | 17531.7 | 18337.3 | 18709.4 | 18349.9 | 17831.2 | 17631.0 | 17531.7 | 19106.7 | 14383.2 |
| 45° | 15638.2 | 15704.4 | 16448.6 | 18022.0 | 19409.4 | 20123.6 | 19731.0 | 19100.4 | 18920.7 | 20465.7 | 15051.7 |
| 47.5° | 14930.3 | 15002.8 | 15471.1 | 17186.4 | 19401.5 | 21556.7 | 21783.7 | 20582.4 | 20260.8 | 21648.2 | 15628.7 |
| 50° | 13244.9 | 13396.3 | 13985.9 | 15732.8 | 18693.6 | 22215.7 | 23929.5 | 22348.2 | 21682.8 | 22799.1 | 16207.3 |
| 52.5° | 10150.1 | 10383.4 | 11044.0 | 13342.7 | 16897.9 | 21889.4 | 25646.4 | 24489.2 | 23549.5 | 23991.0 | 16704.0 |
| 55° | 6402.5 | 6576.0 | 7130.9 | 9423.3 | 13517.7 | 20191.4 | 26297.5 | 26805.2 | 25969.6 | 25119.8 | 17134.4 |
| 57.5° | 3481.1 | 3558.4 | 3766.5 | 5202.7 | 8792.6 | 16437.5 | 25348.4 | 28123.2 | 27776.4 | 26078.4 | 17459.2 |
| 58° | 3115.3 | 3167.4 | 3296.7 | 4509.0 | 7797.8 | 15411.2 | 24927.5 | 28127.9 | 27954.5 | 26218.7 | 17484.4 |
| 60° | 2311.3 | 2284.5 | 2169.4 | 2573.0 | 4340.4 | 10646.7 | 22382.9 | 27002.3 | 27511.5 | 26390.5 | 17361.4 |
| 62.5° | 2030.6 | 1966.0 | 1731.1 | 1704.3 | 2111.1 | 4904.8 | 17126.5 | 23130.2 | 24333.1 | 25409.9 | 16614.1 |
| 65° | 1907.7 | 1838.3 | 1535.6 | 1437.9 | 1523.0 | 2074.8 | 10088.6 | 17347.2 | 18856.0 | 22436.5 | 14703.3 |
| 67.5° | 1816.2 | 1726.4 | 1411.0 | 1277.0 | 1283.3 | 1371.6 | 4044.0 | 10925.8 | 12623.8 | 17035.1 | 11436.6 |
| 70° | 1727.9 | 1630.2 | 1305.4 | 1150.9 | 1114.6 | 1084.7 | 1608.1 | 5469.2 | 7009.5 | 10760.2 | 7291.7 |
| 72.5° | 1633.3 | 1537.2 | 1212.4 | 1051.6 | 980.6 | 881.3 | 1050.0 | 2237.2 | 3124.8 | 5090.8 | 3307.7 |
| 75° | 1496.2 | 1409.5 | 1119.4 | 963.3 | 862.4 | 730.0 | 793.0 | 1168.3 | 1401.6 | 2027.5 | 1593.9 |
| 77.5° | 1327.5 | 1256.5 | 1015.3 | 890.8 | 764.6 | 592.8 | 610.1 | 810.4 | 898.7 | 1160.4 | 947.5 |
| 80° | 953.8 | 979.1 | 903.4 | 800.9 | 681.1 | 480.9 | 468.2 | 591.2 | 638.5 | 745.7 | 616.4 |
| 82.5° | 670.1 | 684.2 | 747.3 | 654.3 | 562.8 | 378.4 | 345.3 | 416.2 | 444.6 | 490.3 | 332.7 |
| 85° | 461.9 | 446.2 | 512.4 | 455.6 | 406.8 | 252.3 | 236.5 | 282.2 | 299.6 | 304.3 | 171.8 |
| 87.5° | 277.5 | 277.5 | 296.4 | 244.4 | 219.1 | 130.9 | 127.7 | 160.8 | 171.8 | 164.0 | 94.6 |
| 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° | 8893.5 | 8893.5 | 8893.5 | 8893.5 | 8893.5 | 8893.5 | 8893.5 | 8893.5 | 8893.5 | 8893.5 | 8893.5 |
| 2.5° | 8917.2 | 8805.3 | 8567.2 | 8376.4 | 8135.2 | 7884.5 | 7744.2 | 7594.4 | 7492.0 | 7417.9 | 7536.1 |
| 5° | 8985.0 | 8756.4 | 8264.5 | 7797.8 | 7282.3 | 6746.2 | 6339.5 | 5961.1 | 5697.8 | 5533.8 | 5688.3 |
| 7.5° | 9092.2 | 8740.6 | 7957.1 | 7159.3 | 6233.8 | 5341.5 | 4543.7 | 4044.0 | 3752.3 | 3608.8 | 3698.7 |
| 10° | 9215.2 | 8715.4 | 7596.0 | 6293.7 | 4969.4 | 3845.3 | 3249.4 | 3047.5 | 2981.3 | 2954.5 | 2967.1 |
| 12.5° | 9317.6 | 8661.8 | 7153.0 | 5246.9 | 3731.8 | 3036.5 | 2864.7 | 2859.9 | 2874.1 | 2877.3 | 2882.0 |
| 15° | 9390.2 | 8583.0 | 6495.6 | 4155.9 | 2984.5 | 2766.9 | 2757.5 | 2785.8 | 2812.6 | 2823.7 | 2830.0 |
| 17.5° | 9439.0 | 8420.6 | 5753.0 | 3285.6 | 2673.9 | 2636.1 | 2658.1 | 2694.4 | 2722.8 | 2730.7 | 2737.0 |
| 20° | 9434.3 | 8182.5 | 4868.5 | 2740.1 | 2505.2 | 2505.2 | 2543.0 | 2571.4 | 2573.0 | 2563.5 | 2568.3 |
| 22.5° | 9385.4 | 7856.1 | 4010.8 | 2450.0 | 2355.4 | 2382.2 | 2420.1 | 2393.3 | 2282.9 | 2210.4 | 2215.1 |
| 25° | 9303.5 | 7466.7 | 3276.2 | 2265.6 | 2216.7 | 2264.0 | 2252.9 | 2051.1 | 1893.5 | 1822.5 | 1822.5 |
| 27.5° | 9230.9 | 7006.4 | 2711.7 | 2104.7 | 2077.9 | 2136.3 | 1940.8 | 1757.9 | 1691.7 | 1658.6 | 1647.5 |
| 30° | 9178.9 | 6509.7 | 2334.9 | 1950.2 | 1947.1 | 1904.5 | 1683.8 | 1633.3 | 1622.3 | 1595.5 | 1586.0 |
| 32.5° | 9191.5 | 6006.8 | 2093.7 | 1814.7 | 1825.7 | 1630.2 | 1560.8 | 1571.9 | 1562.4 | 1534.0 | 1521.4 |
| 35° | 9295.6 | 5529.1 | 1936.1 | 1691.7 | 1658.6 | 1472.5 | 1488.3 | 1508.8 | 1505.6 | 1466.2 | 1453.6 |
| 37.5° | 9481.6 | 5076.6 | 1832.0 | 1589.2 | 1447.3 | 1393.7 | 1418.9 | 1450.5 | 1442.6 | 1415.8 | 1406.3 |
| 40° | 9677.1 | 4650.9 | 1746.9 | 1508.8 | 1322.8 | 1340.1 | 1362.2 | 1379.5 | 1387.4 | 1395.3 | 1389.0 |
| 42.5° | 9867.9 | 4206.3 | 1642.8 | 1426.8 | 1270.7 | 1289.7 | 1299.1 | 1316.5 | 1359.0 | 1389.0 | 1387.4 |
| 45° | 9981.4 | 3788.5 | 1535.6 | 1310.1 | 1229.7 | 1240.8 | 1234.5 | 1269.2 | 1321.2 | 1370.1 | 1371.6 |
| 47.5° | 10107.5 | 3463.8 | 1450.5 | 1202.9 | 1190.3 | 1198.2 | 1179.3 | 1214.0 | 1261.3 | 1321.2 | 1327.5 |
| 50° | 10260.4 | 3269.8 | 1382.7 | 1117.8 | 1136.7 | 1136.7 | 1132.0 | 1163.5 | 1229.7 | 1299.1 | 1311.7 |
| 52.5° | 10433.9 | 3232.0 | 1325.9 | 1056.3 | 1083.1 | 1081.5 | 1086.3 | 1133.6 | 1206.1 | 1273.9 | 1284.9 |
| 55° | 10645.1 | 3334.5 | 1264.4 | 1010.6 | 1031.1 | 1037.4 | 1053.2 | 1106.8 | 1168.3 | 1245.5 | 1250.2 |
| 57.5° | 10891.1 | 3542.6 | 1215.6 | 974.3 | 983.8 | 1004.3 | 1029.5 | 1078.4 | 1144.6 | 1229.7 | 1234.5 |
| 58° | 10932.1 | 3586.7 | 1207.7 | 971.2 | 974.3 | 998.0 | 1026.4 | 1073.7 | 1139.9 | 1232.9 | 1237.6 |
| 60° | 10933.7 | 3733.4 | 1190.3 | 957.0 | 938.1 | 977.5 | 1009.0 | 1056.3 | 1132.0 | 1243.9 | 1255.0 |
| 62.5° | 10545.8 | 3731.8 | 1177.7 | 936.5 | 900.2 | 949.1 | 985.4 | 1040.5 | 1124.1 | 1270.7 | 1292.8 |
| 65° | 9286.1 | 3391.2 | 1117.8 | 905.0 | 870.3 | 923.9 | 964.9 | 1029.5 | 1146.2 | 1387.4 | 1401.6 |
| 67.5° | 7263.4 | 2779.5 | 1005.9 | 860.8 | 830.9 | 898.7 | 952.3 | 1027.9 | 1169.8 | 1414.2 | 1423.7 |
| 70° | 4802.3 | 2079.5 | 882.9 | 810.4 | 789.9 | 868.7 | 958.6 | 1081.5 | 1143.0 | 1357.4 | 1332.2 |
| 72.5° | 2492.6 | 1459.9 | 783.6 | 747.3 | 742.6 | 841.9 | 1050.0 | 1075.2 | 1116.2 | 1277.0 | 1245.5 |
| 75° | 1308.6 | 1013.7 | 696.9 | 677.9 | 685.8 | 835.6 | 1239.2 | 1046.9 | 1081.5 | 1221.9 | 1281.8 |
| 77.5° | 800.9 | 818.3 | 622.8 | 614.9 | 630.6 | 816.7 | 1237.6 | 1010.6 | 1031.1 | 1124.1 | 1190.3 |
| 80° | 536.0 | 663.7 | 566.0 | 567.6 | 578.6 | 747.3 | 1111.5 | 953.8 | 969.6 | 1062.6 | 1130.4 |
| 82.5° | 339.0 | 392.6 | 514.0 | 540.8 | 526.6 | 616.4 | 944.4 | 868.7 | 890.8 | 1215.6 | 1284.9 |
| 85° | 171.8 | 245.9 | 446.2 | 520.3 | 474.6 | 432.0 | 766.2 | 761.5 | 772.5 | 876.6 | 916.0 |
| 87.5° | 78.8 | 135.6 | 348.4 | 454.1 | 357.9 | 269.6 | 556.5 | 564.4 | 608.6 | 622.8 | 622.8 |
| 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)