

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: P266859

Luminaire Tested: **GAN-AF-04-LED-U-T2-7027-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-T2-7027-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22457.3 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 258
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

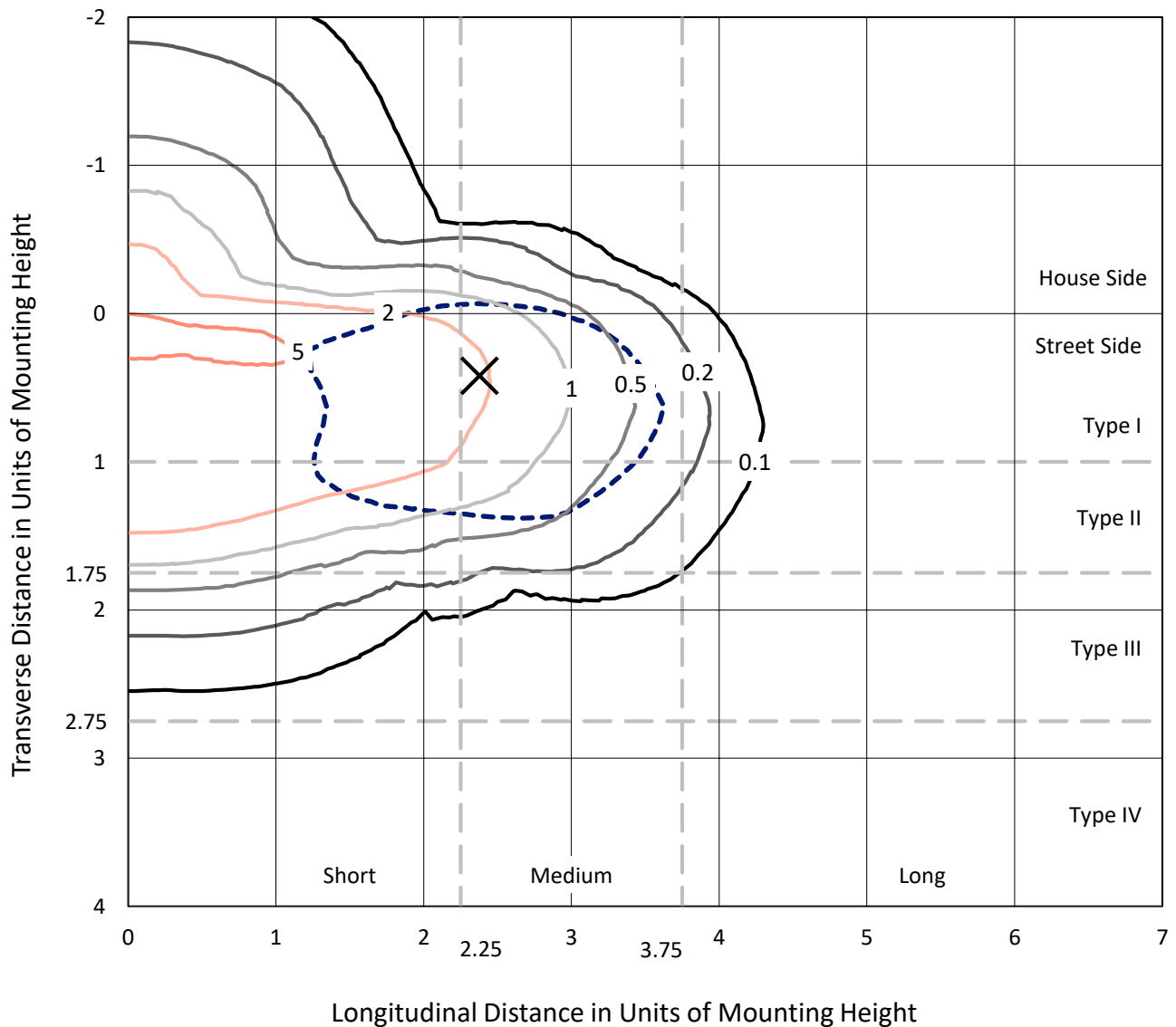


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

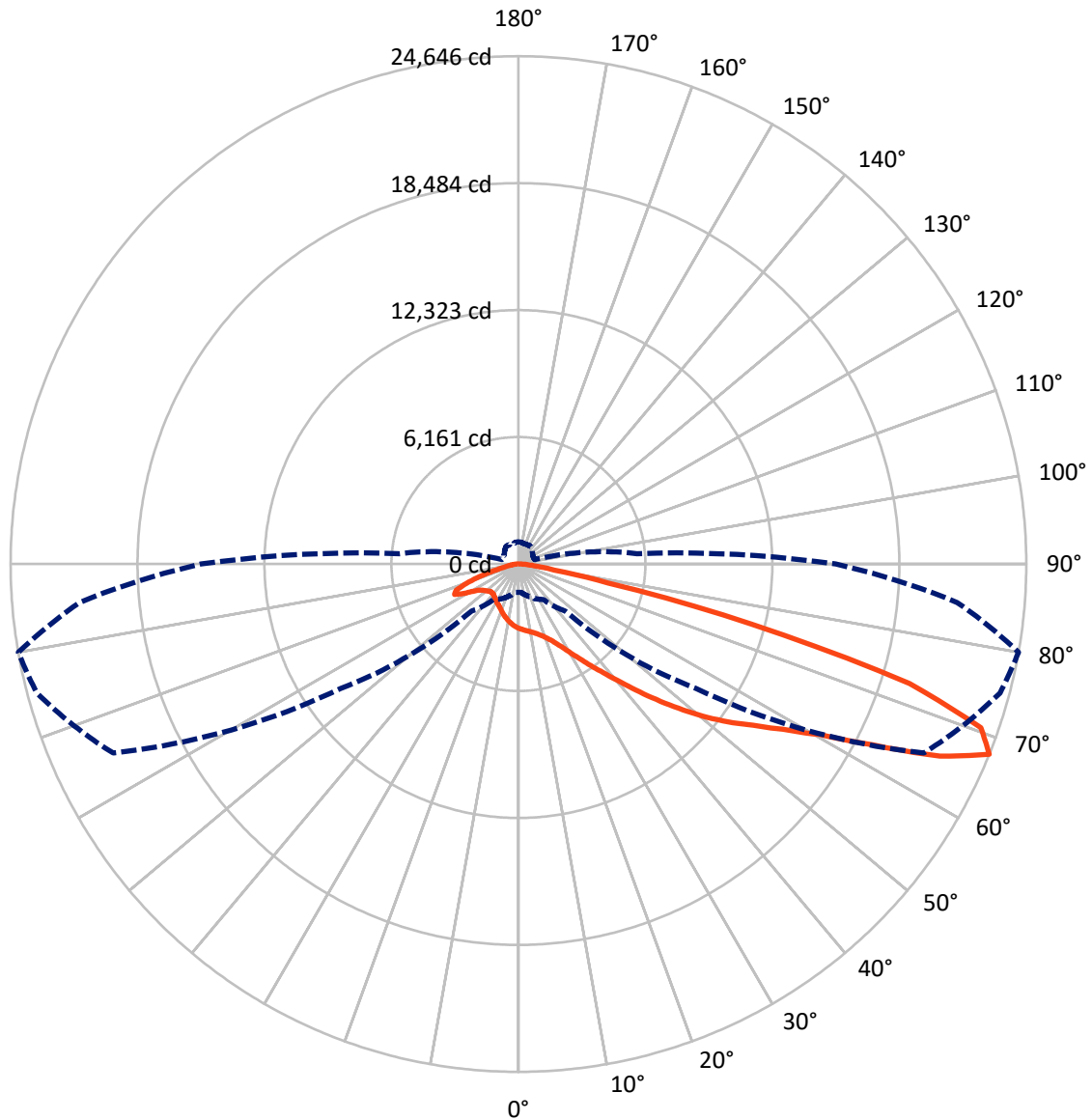


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4135.8 | 0.0 | 4135.8 |
| | % Fixture | 18.4 | 0.0 | 18.4 |
| Street Side | Lumens | 18321.5 | 0.0 | 18321.5 |
| | % Fixture | 81.6 | 0.0 | 81.6 |
| Total | Lumens | 22457.3 | 0.0 | 22457.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 287.8 | 1.3 |
| 10°-20° | 829.1 | 3.7 |
| 20°-30° | 1372.3 | 6.1 |
| 30°-40° | 2244.7 | 10.0 |
| 40°-50° | 3624.4 | 16.1 |
| 50°-60° | 5232.5 | 23.3 |
| 60°-70° | 5774.4 | 25.7 |
| 70°-80° | 2661.6 | 11.9 |
| 80°-90° | 430.5 | 1.9 |
| 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° | 22457.3 | 100.0 |
| 0°-180° | 22457.3 | 100.0 |



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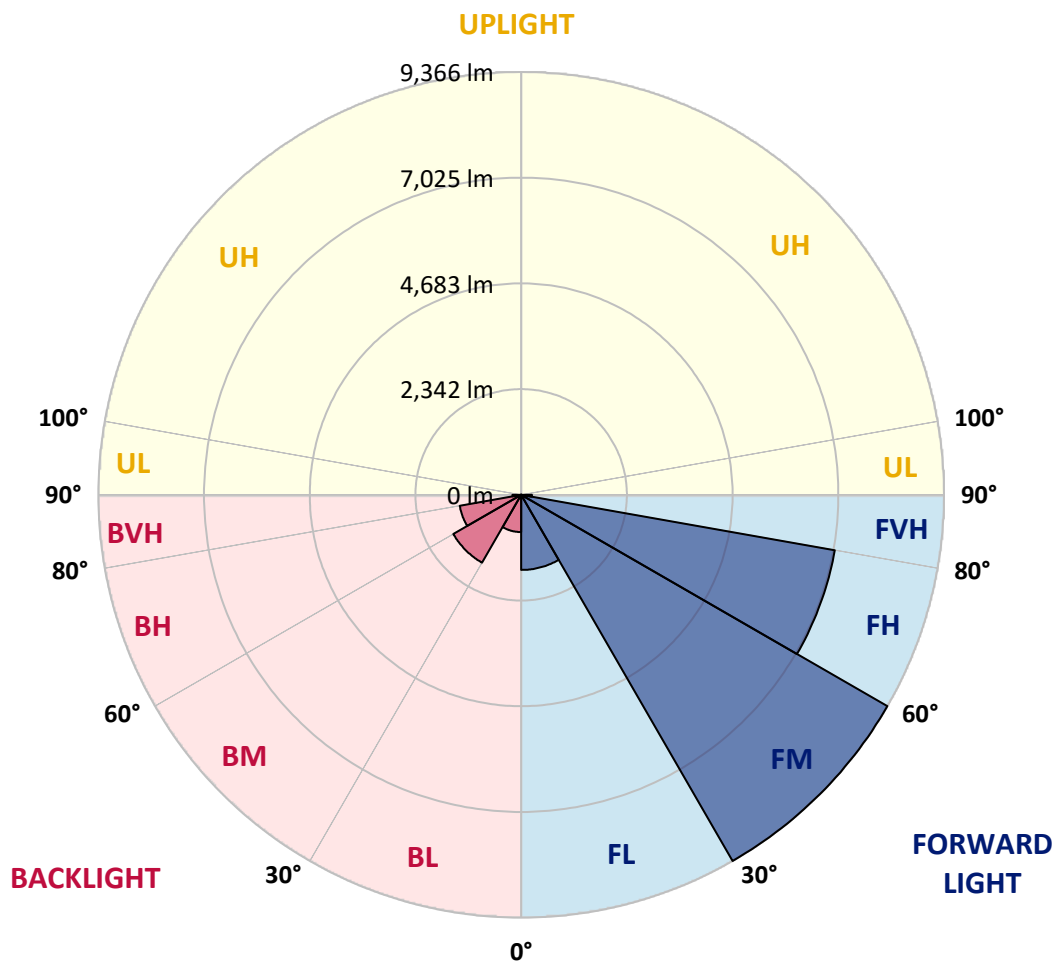
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1664.0 | 7.4 | | | |
| FM (30°-60°) | 9366.4 | 41.7 | | | |
| FH (60°-80°) | 7054.4 | 31.4 | | | G3/7500 |
| FVH (80°-90°) | 236.7 | 1.1 | | | G3/500 |
| BL (0°-30°) | 825.1 | 3.7 | B2/1000 | | |
| BM (30°-60°) | 1735.2 | 7.7 | B2/2500 | | |
| BH (60°-80°) | 1381.6 | 6.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 193.8 | 0.9 | | | G2/225 |
| 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 Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 80° | 85° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 3120.0 | 3120.0 | 3120.0 | 3120.0 | 3120.0 | 3120.0 | 3120.0 | 3120.0 | 3120.0 | 3120.0 | 3120.0 |
| 2.5° | 3412.9 | 3393.1 | 3396.3 | 3390.8 | 3374.3 | 3345.5 | 3314.6 | 3258.2 | 3199.6 | 3168.6 | 3144.2 |
| 5° | 3698.2 | 3692.7 | 3684.9 | 3667.2 | 3625.2 | 3565.6 | 3491.4 | 3391.9 | 3284.7 | 3228.2 | 3174.2 |
| 7.5° | 3911.6 | 3908.3 | 3898.4 | 3887.2 | 3846.4 | 3774.5 | 3662.7 | 3521.3 | 3365.4 | 3288.1 | 3204.0 |
| 10° | 3929.2 | 3934.8 | 3942.5 | 3972.3 | 3978.0 | 3939.2 | 3825.3 | 3653.9 | 3449.4 | 3349.9 | 3242.7 |
| 12.5° | 3778.9 | 3791.0 | 3820.9 | 3897.1 | 3978.0 | 4025.5 | 3966.8 | 3793.3 | 3547.9 | 3427.4 | 3291.3 |
| 15° | 3579.8 | 3586.6 | 3623.0 | 3728.1 | 3872.9 | 4019.9 | 4075.3 | 3947.0 | 3675.0 | 3526.8 | 3364.3 |
| 17.5° | 3494.8 | 3498.1 | 3523.5 | 3593.2 | 3728.1 | 3938.1 | 4135.9 | 4113.9 | 3830.8 | 3650.6 | 3453.9 |
| 20° | 3451.6 | 3459.5 | 3495.8 | 3564.5 | 3649.5 | 3833.1 | 4144.9 | 4294.1 | 4016.6 | 3805.4 | 3566.6 |
| 22.5° | 3574.4 | 3571.0 | 3584.2 | 3618.6 | 3690.4 | 3801.0 | 4138.2 | 4479.8 | 4253.1 | 4004.5 | 3713.7 |
| 25° | 3860.7 | 3872.9 | 3849.6 | 3811.0 | 3834.1 | 3911.6 | 4173.5 | 4681.1 | 4549.5 | 4259.9 | 3906.0 |
| 27.5° | 4268.7 | 4256.4 | 4222.3 | 4131.6 | 4084.1 | 4117.2 | 4290.8 | 4897.7 | 4917.6 | 4595.9 | 4160.3 |
| 30° | 4675.5 | 4665.5 | 4632.4 | 4521.9 | 4424.5 | 4396.9 | 4518.6 | 5146.5 | 5356.6 | 4999.4 | 4472.1 |
| 32.5° | 5097.9 | 5086.8 | 5055.8 | 4945.3 | 4828.1 | 4764.0 | 4842.5 | 5433.9 | 5873.9 | 5481.5 | 4839.2 |
| 35° | 5618.5 | 5597.6 | 5532.3 | 5378.7 | 5263.7 | 5213.9 | 5250.5 | 5795.4 | 6471.0 | 6052.1 | 5284.6 |
| 37.5° | 6108.4 | 6140.5 | 6074.1 | 5861.8 | 5712.6 | 5694.9 | 5735.8 | 6236.7 | 7114.4 | 6689.9 | 5796.7 |
| 40° | 6600.3 | 6605.9 | 6546.2 | 6372.5 | 6219.0 | 6190.2 | 6292.9 | 6771.8 | 7874.1 | 7452.8 | 6419.1 |
| 42.5° | 7108.9 | 7120.0 | 7019.4 | 6859.1 | 6746.4 | 6751.8 | 6869.0 | 7398.6 | 8745.2 | 8351.6 | 7135.4 |
| 45° | 7711.5 | 7728.1 | 7617.4 | 7407.5 | 7304.6 | 7511.4 | 7462.7 | 8101.8 | 9700.4 | 9373.2 | 7958.1 |
| 47.5° | 8341.8 | 8367.2 | 8283.0 | 8086.3 | 7958.1 | 8242.2 | 8056.4 | 8881.3 | 10728.6 | 10468.8 | 8861.3 |
| 50° | 8685.5 | 8722.0 | 8803.7 | 8789.5 | 8761.8 | 8714.3 | 8718.7 | 9717.1 | 11788.8 | 11609.8 | 9790.0 |
| 52.5° | 8500.9 | 8499.8 | 8798.3 | 9160.8 | 9547.8 | 9576.7 | 9525.7 | 10598.2 | 12779.5 | 12725.3 | 10664.5 |
| 55° | 7656.3 | 7713.7 | 8165.9 | 8867.9 | 9924.8 | 10584.9 | 10735.3 | 11607.5 | 13752.4 | 13815.5 | 11552.4 |
| 57.5° | 6249.9 | 6297.4 | 6907.6 | 7886.2 | 9416.4 | 11184.1 | 12455.5 | 13074.7 | 14840.3 | 15134.4 | 12734.2 |
| 60° | 4238.8 | 4296.4 | 4943.1 | 6118.4 | 8047.6 | 10850.3 | 14092.9 | 15692.8 | 16142.7 | 16811.6 | 14392.6 |
| 62.5° | 2490.9 | 2542.8 | 3070.1 | 3859.6 | 5666.1 | 9299.2 | 14811.6 | 19417.5 | 18211.2 | 19342.2 | 16922.1 |
| 65° | 1714.8 | 1750.2 | 2006.6 | 2402.4 | 3255.9 | 6263.2 | 13920.5 | 21989.0 | 21394.3 | 22477.7 | 19855.2 |
| 67.5° | 1379.7 | 1375.3 | 1578.9 | 1848.5 | 2096.1 | 3229.4 | 10526.2 | 21698.3 | 24193.6 | 24645.8 | 21377.7 |
| 70° | 1136.5 | 1132.1 | 1270.4 | 1493.6 | 1675.0 | 1818.7 | 5733.6 | 18310.7 | 23623.1 | 23806.6 | 19975.8 |
| 72.5° | 950.8 | 955.3 | 1043.7 | 1209.5 | 1374.2 | 1369.8 | 2519.7 | 12881.2 | 18583.9 | 19853.0 | 15923.7 |
| 75° | 802.6 | 804.9 | 863.5 | 980.7 | 1115.5 | 1103.4 | 1366.5 | 6978.5 | 10802.7 | 11686.1 | 8827.0 |
| 77.5° | 683.3 | 685.4 | 723.0 | 788.4 | 884.6 | 880.1 | 997.3 | 3014.9 | 4506.3 | 4451.1 | 3019.4 |
| 80° | 609.2 | 609.2 | 626.8 | 639.1 | 692.1 | 672.2 | 739.7 | 1448.2 | 1904.9 | 1759.1 | 1205.0 |
| 82.5° | 477.5 | 479.9 | 588.2 | 583.8 | 545.0 | 519.6 | 519.6 | 853.5 | 1009.3 | 933.1 | 705.3 |
| 85° | 268.7 | 267.5 | 379.3 | 457.6 | 479.9 | 366.0 | 362.6 | 477.5 | 549.5 | 484.2 | 341.6 |
| 87.5° | 115.1 | 117.1 | 175.8 | 203.5 | 271.9 | 227.7 | 224.4 | 246.6 | 279.7 | 242.2 | 158.1 |
| 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° | 3120.0 | 3120.0 | 3120.0 | 3120.0 | 3120.0 | 3120.0 | 3120.0 | 3120.0 | 3120.0 | 3120.0 | 3120.0 |
| 2.5° | 3121.2 | 3092.3 | 3029.4 | 2950.8 | 2880.1 | 2833.7 | 2791.7 | 2730.8 | 2734.1 | 2692.1 | 2661.1 |
| 5° | 3118.8 | 3059.2 | 2913.3 | 2739.7 | 2572.7 | 2452.3 | 2361.6 | 2279.7 | 2259.9 | 2221.1 | 2198.0 |
| 7.5° | 3121.2 | 3023.8 | 2778.4 | 2500.8 | 2294.1 | 2141.5 | 2064.1 | 2020.9 | 2011.0 | 1997.8 | 1998.9 |
| 10° | 3128.7 | 2991.7 | 2630.1 | 2277.6 | 2060.8 | 1960.2 | 1941.3 | 1954.7 | 1970.2 | 1974.6 | 1975.7 |
| 12.5° | 3146.6 | 2963.0 | 2467.6 | 2078.5 | 1914.8 | 1883.9 | 1915.9 | 1961.3 | 1991.2 | 2005.6 | 2004.5 |
| 15° | 3186.3 | 2941.0 | 2311.8 | 1922.6 | 1834.2 | 1850.8 | 1910.4 | 1974.6 | 2017.8 | 2037.5 | 2038.8 |
| 17.5° | 3229.4 | 2908.8 | 2151.5 | 1803.2 | 1774.4 | 1816.6 | 1890.6 | 1965.8 | 2018.9 | 2040.9 | 2045.4 |
| 20° | 3285.8 | 2868.9 | 1983.4 | 1713.6 | 1718.1 | 1765.6 | 1835.2 | 1910.4 | 1969.1 | 1987.9 | 1996.8 |
| 22.5° | 3359.9 | 2825.9 | 1836.3 | 1640.7 | 1654.0 | 1690.4 | 1744.6 | 1809.8 | 1860.7 | 1869.6 | 1877.3 |
| 25° | 3459.5 | 2779.4 | 1719.1 | 1574.4 | 1579.8 | 1600.9 | 1637.4 | 1676.1 | 1711.5 | 1701.5 | 1709.2 |
| 27.5° | 3593.2 | 2739.7 | 1631.9 | 1513.6 | 1503.7 | 1508.1 | 1526.8 | 1538.9 | 1557.8 | 1530.2 | 1533.4 |
| 30° | 3750.2 | 2696.5 | 1564.4 | 1460.5 | 1432.8 | 1425.2 | 1429.6 | 1436.2 | 1450.6 | 1412.9 | 1407.5 |
| 32.5° | 3932.6 | 2644.6 | 1501.3 | 1414.0 | 1375.3 | 1359.9 | 1362.1 | 1379.7 | 1435.0 | 1411.9 | 1399.6 |
| 35° | 4144.9 | 2586.0 | 1435.0 | 1363.2 | 1336.7 | 1314.5 | 1312.3 | 1367.6 | 1532.4 | 1518.0 | 1506.8 |
| 37.5° | 4393.6 | 2527.4 | 1368.7 | 1305.6 | 1307.9 | 1283.6 | 1275.9 | 1338.8 | 1551.2 | 1494.8 | 1487.1 |
| 40° | 4709.9 | 2496.4 | 1312.3 | 1245.0 | 1272.4 | 1269.2 | 1253.8 | 1285.8 | 1427.2 | 1324.6 | 1311.3 |
| 42.5° | 5101.1 | 2500.8 | 1270.4 | 1179.7 | 1230.5 | 1265.9 | 1241.5 | 1242.6 | 1293.5 | 1216.1 | 1204.0 |
| 45° | 5584.4 | 2552.9 | 1240.5 | 1127.7 | 1183.0 | 1262.6 | 1237.1 | 1219.4 | 1223.9 | 1183.0 | 1176.3 |
| 47.5° | 6148.2 | 2660.1 | 1219.4 | 1084.6 | 1137.7 | 1250.4 | 1236.1 | 1212.8 | 1202.9 | 1180.7 | 1175.3 |
| 50° | 6775.0 | 2815.9 | 1204.0 | 1043.7 | 1096.7 | 1230.5 | 1237.1 | 1206.2 | 1195.1 | 1186.3 | 1183.0 |
| 52.5° | 7390.9 | 2994.0 | 1180.7 | 1008.3 | 1064.8 | 1206.2 | 1240.5 | 1199.5 | 1187.4 | 1180.7 | 1177.5 |
| 55° | 8077.4 | 3216.1 | 1145.3 | 978.4 | 1038.1 | 1175.3 | 1240.5 | 1189.6 | 1176.3 | 1177.5 | 1176.3 |
| 57.5° | 9005.0 | 3575.4 | 1103.4 | 953.0 | 1006.1 | 1137.7 | 1219.4 | 1178.5 | 1162.0 | 1163.0 | 1164.2 |
| 60° | 10454.5 | 4209.0 | 1052.5 | 927.6 | 966.2 | 1093.4 | 1190.8 | 1154.2 | 1137.7 | 1142.0 | 1143.2 |
| 62.5° | 12586.1 | 5138.8 | 986.2 | 890.0 | 924.3 | 1045.8 | 1150.9 | 1123.3 | 1106.7 | 1117.8 | 1117.8 |
| 65° | 14801.6 | 5959.1 | 904.4 | 842.5 | 880.1 | 994.0 | 1101.1 | 1084.6 | 1067.9 | 1093.4 | 1092.2 |
| 67.5° | 15397.5 | 5775.7 | 822.6 | 790.5 | 835.9 | 936.5 | 1041.5 | 1032.6 | 1023.8 | 1067.9 | 1065.7 |
| 70° | 13678.3 | 4636.8 | 747.4 | 737.4 | 787.2 | 874.5 | 977.4 | 977.4 | 971.7 | 1004.9 | 997.3 |
| 72.5° | 10421.2 | 3288.1 | 675.5 | 681.0 | 731.8 | 807.0 | 907.6 | 915.5 | 906.6 | 923.2 | 916.5 |
| 75° | 5578.8 | 1881.7 | 603.7 | 619.1 | 663.4 | 738.5 | 830.4 | 837.9 | 832.5 | 831.4 | 834.7 |
| 77.5° | 1854.1 | 919.9 | 528.5 | 552.7 | 591.4 | 667.8 | 749.5 | 761.8 | 748.5 | 746.3 | 745.1 |
| 80° | 825.9 | 578.1 | 445.6 | 477.5 | 511.9 | 587.0 | 664.4 | 674.4 | 660.1 | 679.9 | 654.5 |
| 82.5° | 530.7 | 380.3 | 357.0 | 392.5 | 425.6 | 506.4 | 579.3 | 581.6 | 568.3 | 660.1 | 562.8 |
| 85° | 257.6 | 235.4 | 268.7 | 300.8 | 329.5 | 397.9 | 479.9 | 481.0 | 447.7 | 408.0 | 393.5 |
| 87.5° | 128.3 | 137.1 | 179.1 | 207.9 | 222.2 | 273.1 | 349.4 | 342.8 | 328.4 | 298.4 | 275.3 |
| 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)