

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: P268539

Luminaire Tested: **GAN-AF-05-LED-U-T2-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268539
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-05-LED-U-T2-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20493.3 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

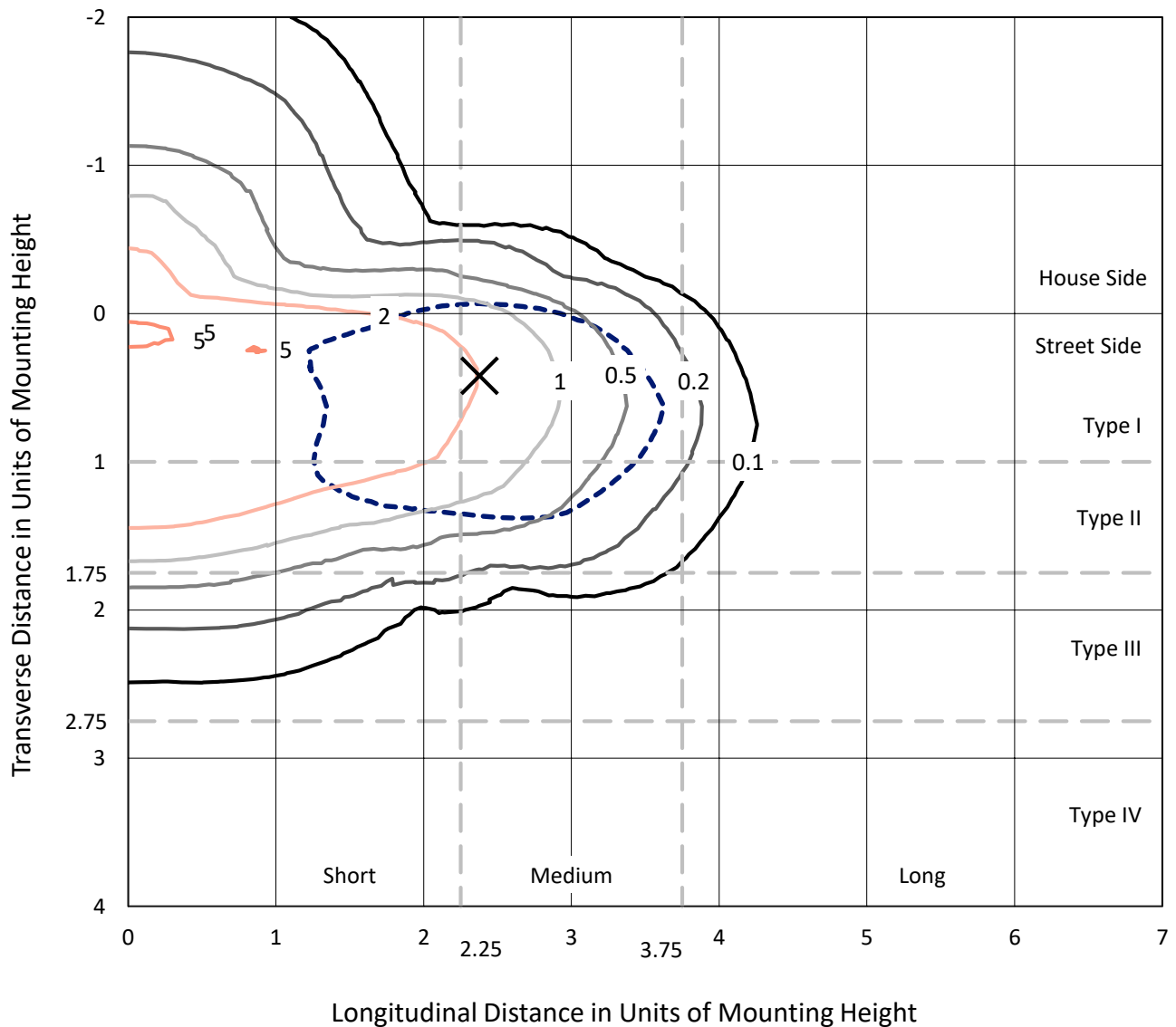
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

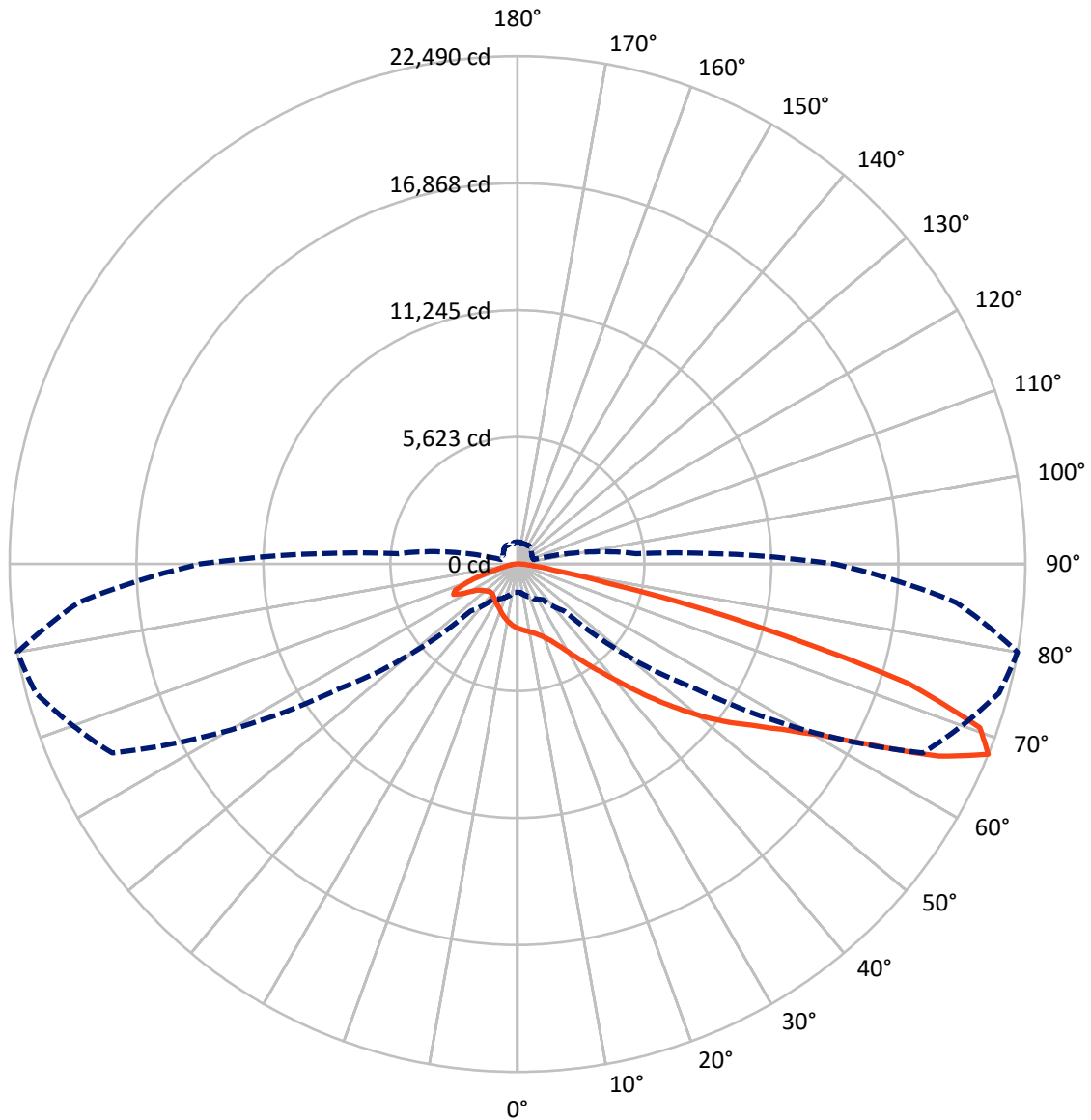
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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 | 3774.1 | 0.0 | 3774.1 |
| | % Fixture | 18.4 | 0.0 | 18.4 |
| Street Side | Lumens | 16719.2 | 0.0 | 16719.2 |
| | % Fixture | 81.6 | 0.0 | 81.6 |
| Total | Lumens | 20493.3 | 0.0 | 20493.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 262.6 | 1.3 |
| 10°-20° | 756.6 | 3.7 |
| 20°-30° | 1252.3 | 6.1 |
| 30°-40° | 2048.4 | 10.0 |
| 40°-50° | 3307.4 | 16.1 |
| 50°-60° | 4774.9 | 23.3 |
| 60°-70° | 5269.4 | 25.7 |
| 70°-80° | 2428.9 | 11.9 |
| 80°-90° | 392.9 | 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° | 20493.3 | 100.0 |
| 0°-180° | 20493.3 | 100.0 |



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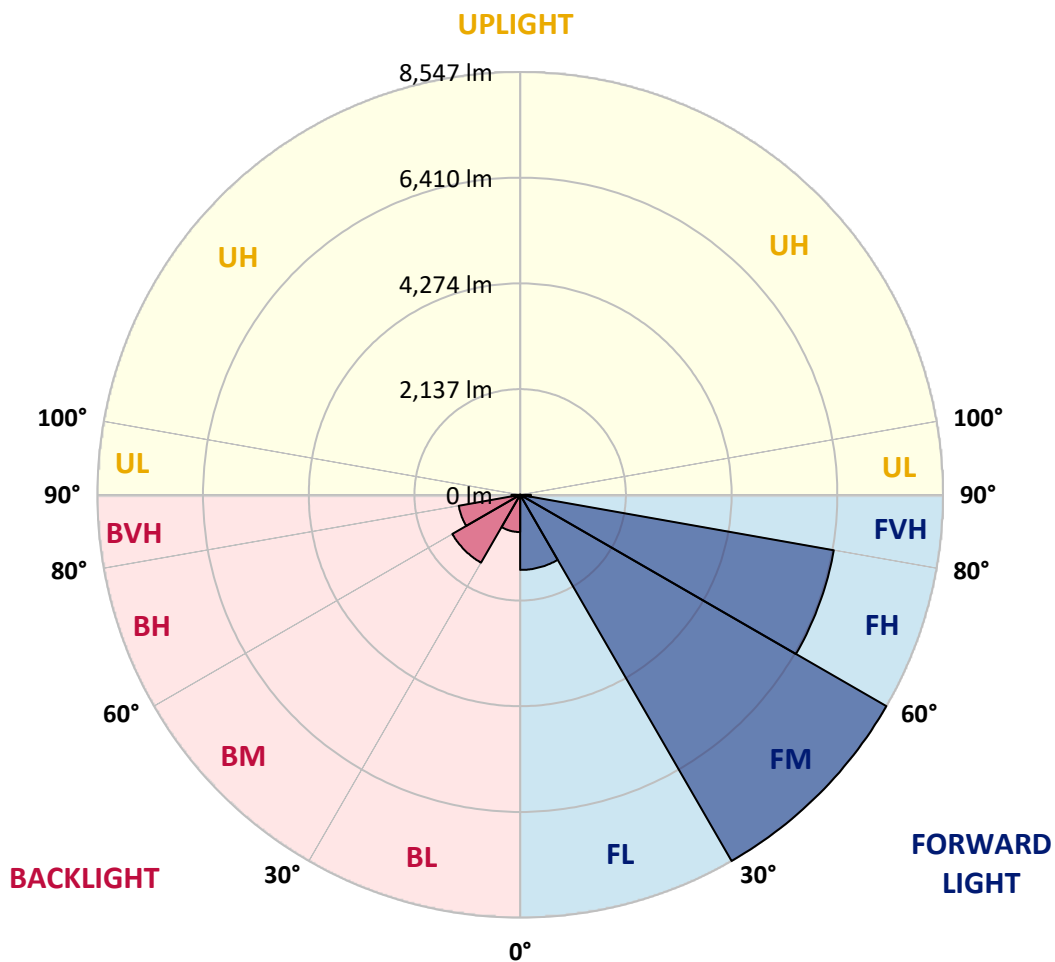
CATALOG NUMBER: GAN-AF-05-LED-U-T2-7027-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1518.5 | 7.4 | | | |
| FM | (30°-60°) | 8547.2 | 41.7 | | | |
| FH | (60°-80°) | 6437.5 | 31.4 | | | G3/7500 |
| FVH | (80°-90°) | 216.0 | 1.1 | | | G2/225 |
| BL | (0°-30°) | 753.0 | 3.7 | B2/1000 | | |
| BM | (30°-60°) | 1583.5 | 7.7 | B2/2500 | | |
| BH | (60°-80°) | 1260.8 | 6.2 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 176.9 | 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° | 2847.1 | 2847.1 | 2847.1 | 2847.1 | 2847.1 | 2847.1 | 2847.1 | 2847.1 | 2847.1 | 2847.1 | 2847.1 |
| 2.5° | 3114.5 | 3096.3 | 3099.3 | 3094.3 | 3079.2 | 3052.9 | 3024.8 | 2973.2 | 2919.9 | 2891.6 | 2869.4 |
| 5° | 3374.8 | 3369.7 | 3362.6 | 3346.5 | 3308.2 | 3253.8 | 3186.1 | 3095.3 | 2997.5 | 2946.0 | 2896.6 |
| 7.5° | 3569.4 | 3566.5 | 3557.4 | 3547.2 | 3509.9 | 3444.5 | 3342.6 | 3213.3 | 3071.0 | 3000.5 | 2923.9 |
| 10° | 3585.7 | 3590.6 | 3597.7 | 3625.0 | 3630.1 | 3594.7 | 3490.9 | 3334.4 | 3147.8 | 3057.0 | 2959.0 |
| 12.5° | 3448.5 | 3459.6 | 3486.9 | 3556.4 | 3630.1 | 3673.3 | 3619.9 | 3461.6 | 3237.6 | 3127.5 | 3003.6 |
| 15° | 3266.9 | 3272.9 | 3306.2 | 3402.1 | 3534.2 | 3668.4 | 3718.9 | 3601.8 | 3353.6 | 3218.4 | 3070.0 |
| 17.5° | 3189.2 | 3192.1 | 3215.4 | 3279.0 | 3402.1 | 3593.7 | 3774.3 | 3754.1 | 3495.8 | 3331.4 | 3151.9 |
| 20° | 3149.7 | 3156.9 | 3190.2 | 3252.8 | 3330.3 | 3497.9 | 3782.4 | 3918.5 | 3665.4 | 3472.7 | 3254.6 |
| 22.5° | 3261.7 | 3258.7 | 3270.9 | 3302.1 | 3367.7 | 3468.5 | 3776.4 | 4088.0 | 3881.2 | 3654.2 | 3388.9 |
| 25° | 3523.2 | 3534.2 | 3513.0 | 3477.7 | 3498.9 | 3569.4 | 3808.6 | 4271.7 | 4151.6 | 3887.2 | 3564.5 |
| 27.5° | 3895.4 | 3884.4 | 3853.0 | 3770.2 | 3726.9 | 3757.2 | 3915.5 | 4469.4 | 4487.7 | 4193.9 | 3796.4 |
| 30° | 4266.6 | 4257.5 | 4227.3 | 4126.5 | 4037.6 | 4012.4 | 4123.4 | 4696.3 | 4888.1 | 4562.2 | 4081.0 |
| 32.5° | 4652.1 | 4641.9 | 4613.8 | 4512.8 | 4405.8 | 4347.3 | 4419.0 | 4958.7 | 5360.2 | 5002.1 | 4416.0 |
| 35° | 5127.3 | 5108.0 | 5048.6 | 4908.2 | 4803.3 | 4758.1 | 4791.3 | 5288.6 | 5905.1 | 5522.7 | 4822.6 |
| 37.5° | 5574.3 | 5603.4 | 5542.9 | 5349.1 | 5213.0 | 5196.9 | 5234.2 | 5691.2 | 6492.3 | 6104.8 | 5289.7 |
| 40° | 6023.1 | 6028.2 | 5973.6 | 5815.3 | 5675.0 | 5648.8 | 5742.7 | 6179.5 | 7185.5 | 6801.0 | 5857.7 |
| 42.5° | 6487.2 | 6497.4 | 6405.5 | 6259.2 | 6156.4 | 6161.4 | 6268.4 | 6751.7 | 7980.5 | 7621.2 | 6511.5 |
| 45° | 7037.1 | 7052.2 | 6951.4 | 6759.7 | 6665.9 | 6854.4 | 6810.1 | 7393.2 | 8852.1 | 8553.5 | 7262.1 |
| 47.5° | 7612.1 | 7635.4 | 7558.7 | 7379.0 | 7262.1 | 7521.4 | 7351.9 | 8104.5 | 9790.4 | 9553.3 | 8086.4 |
| 50° | 7925.9 | 7959.3 | 8033.9 | 8020.7 | 7995.5 | 7952.2 | 7956.2 | 8867.2 | 10757.9 | 10594.5 | 8933.9 |
| 52.5° | 7757.5 | 7756.4 | 8028.8 | 8359.7 | 8712.9 | 8739.2 | 8692.7 | 9671.3 | 11661.8 | 11612.5 | 9731.9 |
| 55° | 6986.7 | 7039.1 | 7451.7 | 8092.4 | 9056.9 | 9659.3 | 9796.5 | 10592.5 | 12549.7 | 12607.3 | 10542.0 |
| 57.5° | 5703.2 | 5746.6 | 6303.6 | 7196.5 | 8592.7 | 10206.1 | 11366.3 | 11931.3 | 13542.5 | 13810.8 | 11620.6 |
| 60° | 3868.1 | 3920.7 | 4510.7 | 5583.2 | 7343.9 | 9901.4 | 12860.5 | 14320.3 | 14730.9 | 15341.3 | 13133.8 |
| 62.5° | 2273.0 | 2320.5 | 2801.8 | 3522.1 | 5170.6 | 8485.8 | 13516.3 | 17719.3 | 16618.6 | 17650.7 | 15442.3 |
| 65° | 1564.8 | 1597.0 | 1831.1 | 2192.4 | 2971.2 | 5715.5 | 12703.1 | 20066.0 | 19523.3 | 20512.0 | 18118.9 |
| 67.5° | 1259.2 | 1255.1 | 1440.7 | 1686.8 | 1912.9 | 2947.0 | 9605.8 | 19800.7 | 22077.9 | 22490.4 | 19508.1 |
| 70° | 1037.2 | 1033.1 | 1159.3 | 1363.0 | 1528.5 | 1659.7 | 5232.2 | 16709.5 | 21557.2 | 21724.7 | 18228.9 |
| 72.5° | 867.7 | 871.6 | 952.5 | 1103.7 | 1254.0 | 1250.0 | 2299.3 | 11754.7 | 16958.7 | 18116.8 | 14531.3 |
| 75° | 732.5 | 734.5 | 788.0 | 894.9 | 1018.0 | 1006.9 | 1246.9 | 6368.2 | 9858.0 | 10664.0 | 8055.1 |
| 77.5° | 623.6 | 625.5 | 659.9 | 719.4 | 807.0 | 803.1 | 910.1 | 2751.2 | 4112.4 | 4061.9 | 2755.3 |
| 80° | 556.0 | 556.0 | 572.0 | 583.1 | 631.6 | 613.5 | 674.9 | 1321.6 | 1738.3 | 1605.1 | 1099.7 |
| 82.5° | 435.9 | 437.8 | 536.7 | 532.8 | 497.4 | 474.1 | 474.1 | 778.9 | 921.1 | 851.6 | 643.6 |
| 85° | 245.1 | 244.2 | 346.0 | 417.7 | 437.8 | 333.9 | 330.9 | 435.9 | 501.4 | 441.8 | 311.7 |
| 87.5° | 104.9 | 107.0 | 160.3 | 185.6 | 248.2 | 207.9 | 204.9 | 224.9 | 255.3 | 221.0 | 144.3 |
| 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° | 2847.1 | 2847.1 | 2847.1 | 2847.1 | 2847.1 | 2847.1 | 2847.1 | 2847.1 | 2847.1 | 2847.1 | 2847.1 |
| 2.5° | 2848.2 | 2821.8 | 2764.4 | 2692.8 | 2628.3 | 2585.9 | 2547.5 | 2492.0 | 2495.0 | 2456.7 | 2428.4 |
| 5° | 2846.1 | 2791.7 | 2658.4 | 2500.1 | 2347.7 | 2237.8 | 2155.0 | 2080.4 | 2062.1 | 2026.8 | 2005.6 |
| 7.5° | 2848.2 | 2759.4 | 2535.3 | 2282.1 | 2093.5 | 1954.3 | 1883.7 | 1844.3 | 1835.1 | 1823.1 | 1824.1 |
| 10° | 2855.3 | 2730.0 | 2400.2 | 2078.4 | 1880.6 | 1788.7 | 1771.6 | 1783.8 | 1797.9 | 1801.9 | 1802.9 |
| 12.5° | 2871.3 | 2703.9 | 2252.0 | 1896.7 | 1747.5 | 1719.1 | 1748.5 | 1789.9 | 1817.0 | 1830.1 | 1829.2 |
| 15° | 2907.6 | 2683.6 | 2109.6 | 1754.5 | 1673.7 | 1689.0 | 1743.4 | 1801.9 | 1841.3 | 1859.4 | 1860.4 |
| 17.5° | 2947.0 | 2654.4 | 1963.3 | 1645.5 | 1619.3 | 1657.6 | 1725.3 | 1793.8 | 1842.2 | 1862.5 | 1866.5 |
| 20° | 2998.5 | 2618.1 | 1809.9 | 1563.8 | 1567.8 | 1611.2 | 1674.8 | 1743.4 | 1796.9 | 1813.9 | 1822.1 |
| 22.5° | 3066.1 | 2578.8 | 1675.8 | 1497.2 | 1509.3 | 1542.6 | 1592.1 | 1651.5 | 1697.9 | 1706.1 | 1713.1 |
| 25° | 3156.9 | 2536.4 | 1568.8 | 1436.7 | 1441.7 | 1461.0 | 1494.2 | 1529.5 | 1561.8 | 1552.7 | 1559.7 |
| 27.5° | 3279.0 | 2500.1 | 1489.1 | 1381.1 | 1372.2 | 1376.2 | 1393.4 | 1404.4 | 1421.6 | 1396.3 | 1399.3 |
| 30° | 3422.3 | 2460.6 | 1427.5 | 1332.7 | 1307.6 | 1300.4 | 1304.5 | 1310.5 | 1323.7 | 1289.3 | 1284.3 |
| 32.5° | 3588.6 | 2413.2 | 1370.0 | 1290.3 | 1255.1 | 1241.0 | 1243.0 | 1259.2 | 1309.5 | 1288.3 | 1277.3 |
| 35° | 3782.4 | 2359.8 | 1309.5 | 1244.0 | 1219.8 | 1199.5 | 1197.6 | 1248.0 | 1398.3 | 1385.2 | 1375.1 |
| 37.5° | 4009.3 | 2306.4 | 1249.1 | 1191.5 | 1193.5 | 1171.3 | 1164.3 | 1221.8 | 1415.5 | 1364.0 | 1357.0 |
| 40° | 4297.9 | 2278.1 | 1197.6 | 1136.0 | 1161.2 | 1158.3 | 1144.1 | 1173.4 | 1302.5 | 1208.7 | 1196.5 |
| 42.5° | 4655.0 | 2282.1 | 1159.3 | 1076.4 | 1122.9 | 1155.2 | 1133.0 | 1134.0 | 1180.5 | 1109.8 | 1098.6 |
| 45° | 5095.9 | 2329.6 | 1132.0 | 1029.1 | 1079.6 | 1152.2 | 1129.0 | 1112.8 | 1116.9 | 1079.6 | 1073.5 |
| 47.5° | 5610.5 | 2427.4 | 1112.8 | 989.8 | 1038.1 | 1141.0 | 1127.9 | 1106.7 | 1097.6 | 1077.4 | 1072.4 |
| 50° | 6182.6 | 2569.7 | 1098.6 | 952.5 | 1000.8 | 1122.9 | 1129.0 | 1100.8 | 1090.6 | 1082.5 | 1079.6 |
| 52.5° | 6744.6 | 2732.1 | 1077.4 | 920.1 | 971.5 | 1100.8 | 1132.0 | 1094.7 | 1083.5 | 1077.4 | 1074.6 |
| 55° | 7371.0 | 2934.9 | 1045.2 | 892.8 | 947.4 | 1072.4 | 1132.0 | 1085.6 | 1073.5 | 1074.6 | 1073.5 |
| 57.5° | 8217.4 | 3262.7 | 1006.9 | 869.6 | 918.1 | 1038.1 | 1112.8 | 1075.5 | 1060.4 | 1061.3 | 1062.3 |
| 60° | 9540.2 | 3841.0 | 960.5 | 846.5 | 881.7 | 997.7 | 1086.6 | 1053.4 | 1038.1 | 1042.3 | 1043.2 |
| 62.5° | 11485.3 | 4689.4 | 899.9 | 812.2 | 843.5 | 954.4 | 1050.3 | 1025.1 | 1010.0 | 1019.9 | 1019.9 |
| 65° | 13507.2 | 5438.0 | 825.4 | 768.8 | 803.1 | 907.0 | 1004.8 | 989.8 | 974.7 | 997.7 | 996.8 |
| 67.5° | 14051.0 | 5270.4 | 750.7 | 721.3 | 762.8 | 854.6 | 950.3 | 942.3 | 934.2 | 974.7 | 972.5 |
| 70° | 12482.0 | 4231.3 | 682.1 | 672.9 | 718.4 | 798.1 | 891.8 | 891.8 | 886.8 | 917.1 | 910.1 |
| 72.5° | 9509.8 | 3000.5 | 616.4 | 621.4 | 667.9 | 736.5 | 828.2 | 835.3 | 827.2 | 842.4 | 836.4 |
| 75° | 5091.0 | 1717.1 | 550.9 | 564.9 | 605.4 | 674.0 | 757.7 | 764.7 | 759.6 | 758.7 | 761.8 |
| 77.5° | 1692.0 | 839.3 | 482.3 | 504.5 | 539.7 | 609.4 | 684.0 | 695.1 | 683.0 | 681.0 | 679.9 |
| 80° | 753.7 | 527.7 | 406.7 | 435.9 | 467.1 | 535.7 | 606.4 | 615.3 | 602.4 | 620.5 | 597.3 |
| 82.5° | 484.2 | 347.0 | 325.8 | 358.2 | 388.4 | 462.1 | 528.7 | 530.7 | 518.6 | 602.4 | 513.6 |
| 85° | 235.0 | 215.0 | 245.1 | 274.4 | 300.7 | 363.3 | 437.8 | 438.9 | 408.5 | 372.3 | 359.1 |
| 87.5° | 117.0 | 125.1 | 163.4 | 189.7 | 202.7 | 249.2 | 318.8 | 312.8 | 299.7 | 272.4 | 251.3 |
| 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)