

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: P322847

Luminaire Tested: **GAN-SA3C-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3C-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14251 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

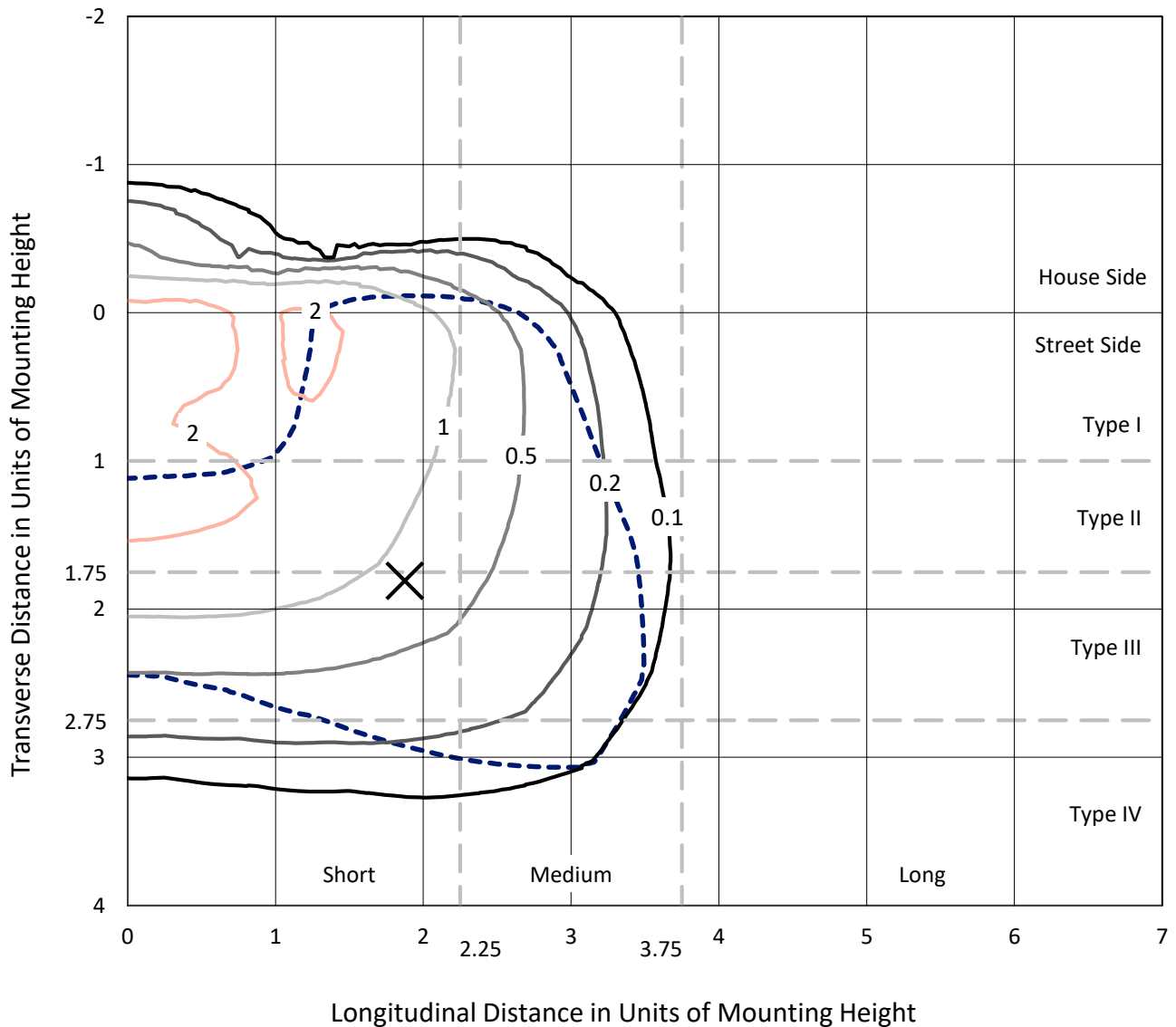
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

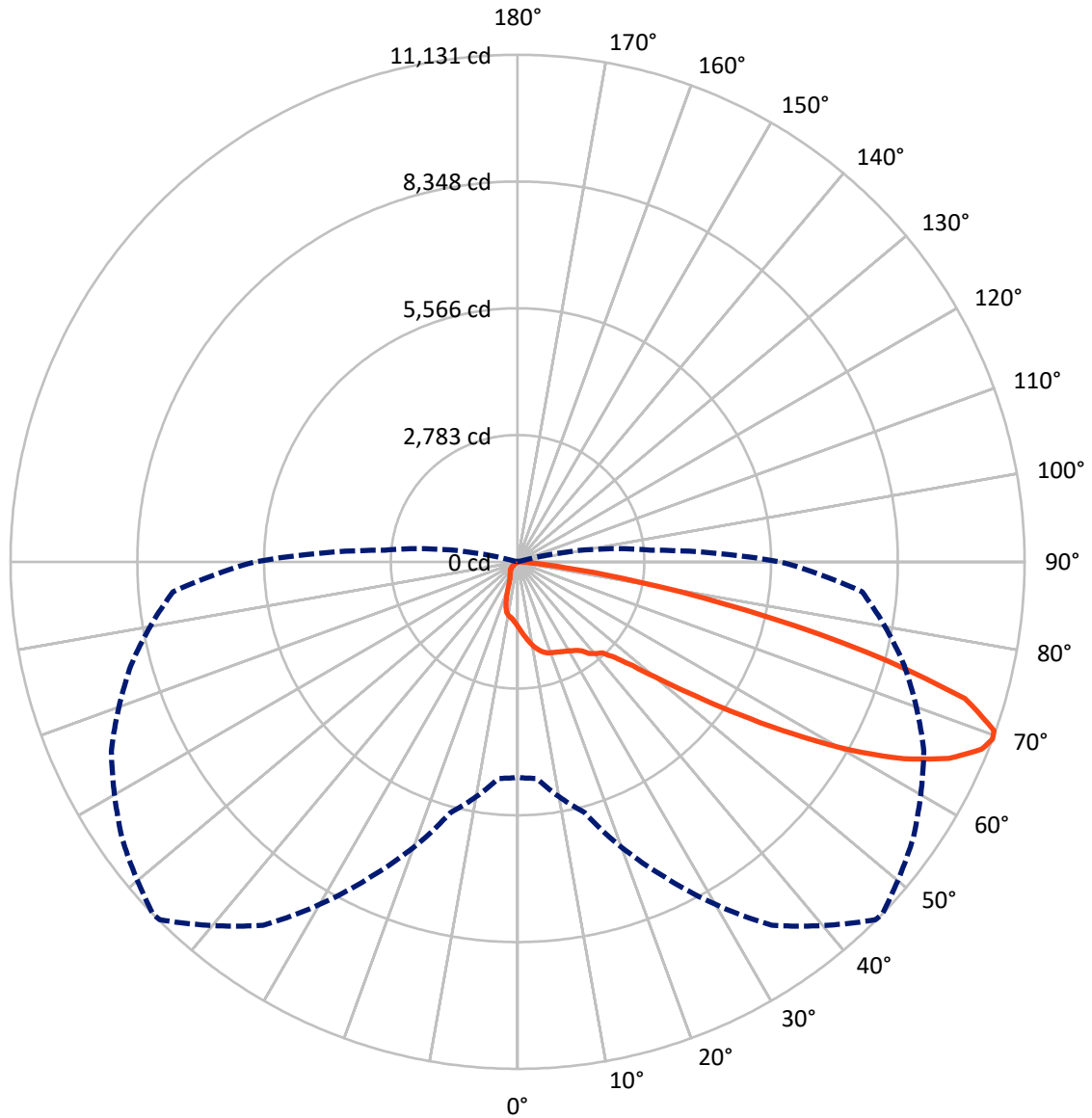
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1462.5 | 0.0 | 1462.5 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 12788.5 | 0.0 | 12788.5 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 14251.0 | 0.0 | 14251.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 142.1 | 1.0 |
| 10°-20° | 431.2 | 3.0 |
| 20°-30° | 678.1 | 4.8 |
| 30°-40° | 972.4 | 6.8 |
| 40°-50° | 1680.7 | 11.8 |
| 50°-60° | 3320.3 | 23.3 |
| 60°-70° | 4640.4 | 32.6 |
| 70°-80° | 2241.8 | 15.7 |
| 80°-90° | 144.1 | 1.0 |
| 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° | 14251.0 | 100.0 |
| 0°-180° | 14251.0 | 100.0 |

Coefficient of Utilization



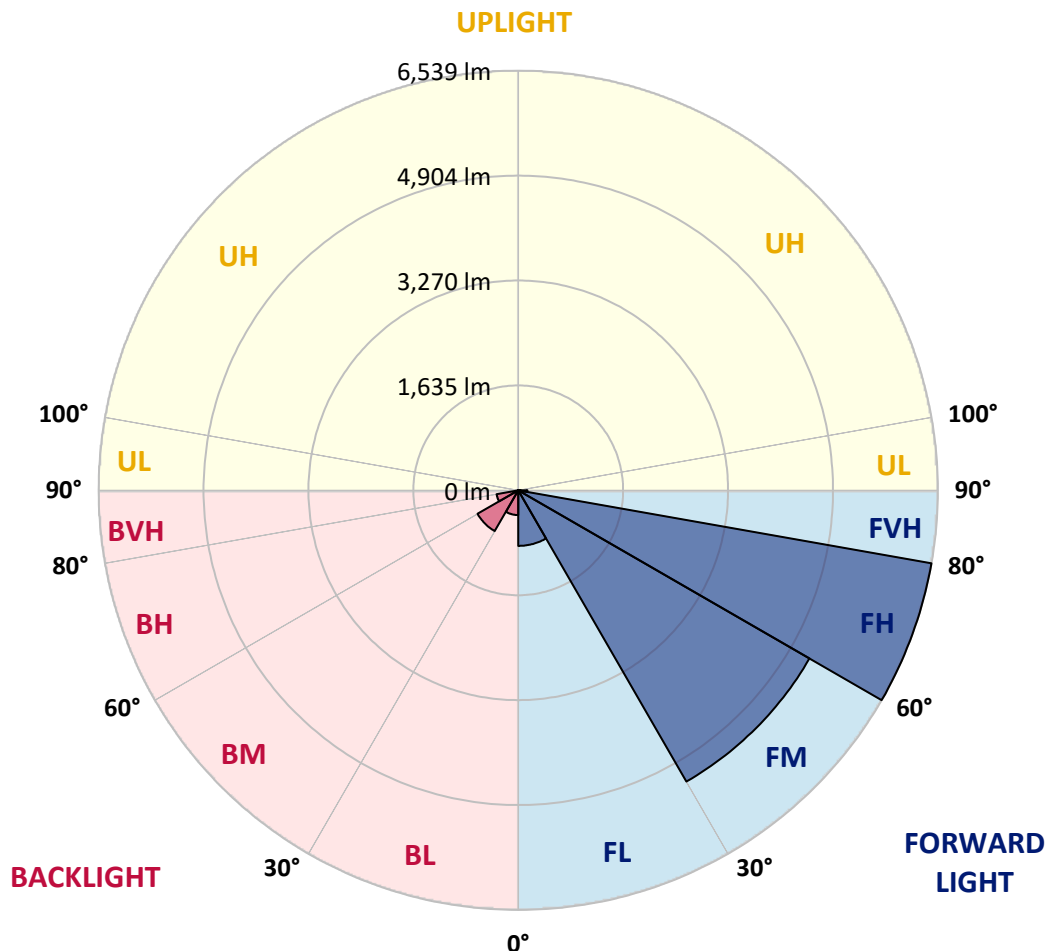
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 865.9 | 6.1 | | | |
| FM (30°-60°) | 5240.4 | 36.8 | | | |
| FH (60°-80°) | 6539.3 | 45.9 | | | G3/7500 |
| FVH (80°-90°) | 142.9 | 1.0 | | | G2/225 |
| BL (0°-30°) | 385.5 | 2.7 | B1/500 | | |
| BM (30°-60°) | 732.9 | 5.1 | B1/1000 | | |
| BH (60°-80°) | 342.9 | 2.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 1427.9 | 1427.9 | 1427.9 | 1427.9 | 1427.9 | 1427.9 | 1427.9 | 1427.9 | 1427.9 | 1427.9 | 1427.9 |
| 2.5° | 1586.3 | 1584.3 | 1574.9 | 1570.9 | 1548.2 | 1534.8 | 1529.5 | 1512.8 | 1488.7 | 1464.6 | 1437.9 |
| 5° | 1766.7 | 1766.0 | 1748.6 | 1731.9 | 1689.2 | 1649.1 | 1641.7 | 1603.0 | 1548.8 | 1498.1 | 1447.3 |
| 7.5° | 1951.1 | 1942.4 | 1925.0 | 1892.9 | 1830.8 | 1766.7 | 1760.6 | 1705.9 | 1629.0 | 1555.5 | 1482.7 |
| 10° | 2107.4 | 2102.1 | 2079.4 | 2030.6 | 1957.8 | 1884.9 | 1877.6 | 1810.1 | 1723.2 | 1633.0 | 1540.2 |
| 12.5° | 2229.0 | 2225.0 | 2195.0 | 2134.2 | 2056.7 | 1981.1 | 1971.1 | 1911.0 | 1818.1 | 1717.2 | 1607.6 |
| 15° | 2303.2 | 2301.2 | 2264.5 | 2199.6 | 2123.5 | 2058.0 | 2049.3 | 1996.5 | 1910.3 | 1804.7 | 1681.1 |
| 17.5° | 2320.6 | 2321.3 | 2283.2 | 2217.7 | 2154.9 | 2108.1 | 2101.4 | 2061.3 | 1989.2 | 1884.3 | 1754.6 |
| 20° | 2281.8 | 2289.8 | 2255.8 | 2199.0 | 2160.2 | 2135.5 | 2130.2 | 2106.1 | 2045.3 | 1946.4 | 1813.4 |
| 22.5° | 2227.0 | 2231.0 | 2207.7 | 2169.6 | 2153.5 | 2158.2 | 2155.5 | 2142.2 | 2090.7 | 1999.9 | 1871.6 |
| 25° | 2193.6 | 2193.6 | 2179.6 | 2147.5 | 2158.2 | 2186.9 | 2187.6 | 2184.9 | 2144.2 | 2065.3 | 1942.4 |
| 27.5° | 2192.3 | 2188.3 | 2172.2 | 2148.2 | 2177.6 | 2221.7 | 2224.4 | 2242.4 | 2217.0 | 2144.9 | 2030.6 |
| 30° | 2245.7 | 2241.1 | 2207.0 | 2175.6 | 2213.0 | 2260.4 | 2267.1 | 2306.6 | 2293.9 | 2231.0 | 2128.8 |
| 32.5° | 2370.7 | 2354.0 | 2278.5 | 2227.0 | 2255.1 | 2311.9 | 2320.6 | 2383.4 | 2403.4 | 2337.3 | 2223.7 |
| 35° | 2541.8 | 2489.0 | 2380.1 | 2324.6 | 2327.3 | 2386.7 | 2394.8 | 2487.0 | 2546.4 | 2434.8 | 2297.2 |
| 37.5° | 2777.6 | 2751.6 | 2574.5 | 2426.2 | 2438.2 | 2528.4 | 2551.8 | 2652.0 | 2635.3 | 2488.3 | 2380.7 |
| 40° | 3294.8 | 3254.0 | 3065.6 | 2710.8 | 2544.4 | 2643.3 | 2650.7 | 2704.1 | 2705.5 | 2609.2 | 2554.4 |
| 42.5° | 3999.0 | 3982.3 | 3783.9 | 3227.3 | 2753.6 | 2720.2 | 2733.5 | 2823.7 | 2924.6 | 2864.5 | 2861.8 |
| 45° | 4778.8 | 4770.1 | 4559.6 | 3912.9 | 3176.5 | 2972.1 | 2988.8 | 3109.7 | 3302.8 | 3316.2 | 3401.0 |
| 47.5° | 5406.2 | 5402.2 | 5281.3 | 4677.9 | 3824.0 | 3399.0 | 3404.4 | 3532.7 | 3872.1 | 4039.8 | 4175.4 |
| 50° | 5978.2 | 5997.6 | 5902.0 | 5505.8 | 4706.0 | 4067.9 | 4055.2 | 4140.7 | 4685.9 | 4960.6 | 5128.9 |
| 52.5° | 6773.3 | 6800.7 | 6532.8 | 6278.2 | 5631.4 | 4897.7 | 4887.7 | 4977.3 | 5664.1 | 5869.9 | 5900.0 |
| 55° | 7475.6 | 7428.8 | 7217.0 | 7143.5 | 6760.0 | 5922.7 | 5920.1 | 5998.9 | 6610.3 | 6697.8 | 6753.3 |
| 57.5° | 7785.6 | 7767.6 | 7869.8 | 8038.2 | 7942.0 | 7134.1 | 7128.1 | 7068.0 | 7456.9 | 7466.2 | 7636.6 |
| 60° | 7981.4 | 8003.4 | 8316.8 | 8836.0 | 9075.9 | 8437.8 | 8399.0 | 8032.2 | 8265.4 | 8244.7 | 8427.1 |
| 62.5° | 7834.4 | 7877.8 | 8441.8 | 9307.1 | 9924.5 | 9575.7 | 9520.9 | 8915.5 | 8956.3 | 8884.8 | 9054.5 |
| 65° | 7054.0 | 7121.4 | 8045.5 | 9218.2 | 10345.4 | 10465.0 | 10409.5 | 9695.3 | 9504.8 | 9387.2 | 9293.0 |
| 67.5° | 5727.6 | 5767.7 | 6732.6 | 8445.1 | 10155.6 | 10995.5 | 10984.2 | 10378.8 | 9919.1 | 9302.4 | 8571.4 |
| 69° | 4733.4 | 4772.8 | 5701.6 | 7631.3 | 9738.0 | 11109.1 | 11131.2 | 10598.0 | 9840.3 | 8786.5 | 7594.5 |
| 70° | 4009.1 | 4051.2 | 4916.5 | 6933.7 | 9253.6 | 11056.3 | 11095.8 | 10577.3 | 9614.4 | 8189.2 | 6737.2 |
| 72.5° | 2102.8 | 2138.8 | 3026.8 | 4776.8 | 7543.7 | 10152.3 | 10271.9 | 9683.2 | 8149.8 | 5947.5 | 3983.7 |
| 75° | 660.8 | 681.5 | 1182.0 | 2497.0 | 5165.0 | 7893.9 | 7921.3 | 7595.9 | 5787.1 | 3271.4 | 1659.1 |
| 77.5° | 251.9 | 245.9 | 393.6 | 920.1 | 2611.2 | 4970.6 | 5138.3 | 4746.7 | 3036.9 | 1156.6 | 382.9 |
| 80° | 135.6 | 136.3 | 204.5 | 380.9 | 1117.2 | 2554.4 | 2696.1 | 2300.5 | 1079.1 | 360.8 | 88.2 |
| 82.5° | 58.8 | 61.5 | 114.9 | 201.8 | 513.2 | 942.1 | 1013.0 | 843.2 | 412.3 | 242.5 | 32.7 |
| 85° | 12.7 | 14.0 | 55.5 | 109.6 | 209.1 | 264.6 | 277.3 | 273.3 | 262.6 | 188.4 | 12.7 |
| 87.5° | 0.0 | 0.0 | 24.7 | 39.4 | 52.8 | 60.1 | 52.8 | 68.8 | 145.0 | 127.0 | 6.7 |
| 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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CATALOG NUMBER: GAN-SA3C-730-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1427.9 | 1427.9 | 1427.9 | 1427.9 | 1427.9 | 1427.9 | 1427.9 | 1427.9 | 1427.9 | 1427.9 | 1427.9 |
| 2.5° | 1429.2 | 1417.2 | 1396.5 | 1373.8 | 1357.7 | 1341.0 | 1327.7 | 1321.7 | 1315.0 | 1310.3 | 1316.3 |
| 5° | 1426.6 | 1403.2 | 1363.1 | 1324.3 | 1296.3 | 1273.5 | 1254.8 | 1247.5 | 1240.1 | 1234.8 | 1234.1 |
| 7.5° | 1449.9 | 1417.2 | 1355.7 | 1298.9 | 1255.5 | 1224.8 | 1199.4 | 1188.7 | 1180.0 | 1176.0 | 1172.7 |
| 10° | 1494.7 | 1452.6 | 1370.4 | 1296.3 | 1240.1 | 1188.0 | 1133.2 | 1091.1 | 1063.7 | 1051.0 | 1046.4 |
| 12.5° | 1552.8 | 1500.1 | 1398.5 | 1310.3 | 1228.8 | 1128.6 | 1012.3 | 912.1 | 847.3 | 825.9 | 813.2 |
| 15° | 1621.0 | 1555.5 | 1435.2 | 1328.3 | 1187.4 | 1004.3 | 807.2 | 676.2 | 616.1 | 604.0 | 590.7 |
| 17.5° | 1686.5 | 1614.3 | 1479.3 | 1331.7 | 1096.5 | 802.5 | 591.3 | 502.5 | 479.1 | 487.1 | 489.1 |
| 20° | 1743.9 | 1672.5 | 1522.8 | 1302.3 | 931.4 | 602.0 | 457.7 | 435.7 | 444.3 | 459.7 | 462.4 |
| 22.5° | 1802.1 | 1728.6 | 1562.9 | 1224.8 | 720.3 | 457.0 | 412.3 | 417.6 | 426.3 | 441.7 | 444.3 |
| 25° | 1872.9 | 1796.7 | 1600.3 | 1082.4 | 540.6 | 388.9 | 391.6 | 399.6 | 408.3 | 422.3 | 423.6 |
| 27.5° | 1954.4 | 1882.9 | 1625.0 | 897.4 | 400.9 | 357.5 | 366.2 | 378.2 | 386.9 | 400.2 | 402.9 |
| 30° | 2062.7 | 1996.5 | 1633.0 | 705.6 | 336.1 | 329.4 | 333.4 | 348.1 | 360.8 | 372.8 | 374.8 |
| 32.5° | 2164.2 | 2108.8 | 1606.3 | 532.5 | 311.4 | 303.4 | 303.4 | 312.0 | 326.7 | 338.1 | 340.8 |
| 35° | 2257.8 | 2221.7 | 1520.8 | 389.5 | 292.7 | 279.3 | 272.6 | 272.6 | 282.0 | 291.3 | 294.0 |
| 37.5° | 2381.4 | 2380.1 | 1382.5 | 310.7 | 274.6 | 259.3 | 245.2 | 234.5 | 231.2 | 233.2 | 234.5 |
| 40° | 2593.2 | 2595.2 | 1202.1 | 278.6 | 259.3 | 238.5 | 217.2 | 197.8 | 179.7 | 173.7 | 173.1 |
| 42.5° | 2923.9 | 2893.9 | 1013.0 | 263.3 | 245.9 | 217.2 | 185.1 | 159.0 | 131.0 | 122.3 | 121.6 |
| 45° | 3449.1 | 3270.7 | 812.5 | 249.2 | 231.9 | 193.1 | 153.0 | 117.6 | 94.9 | 88.2 | 88.2 |
| 47.5° | 4214.2 | 3765.9 | 629.4 | 233.9 | 213.1 | 165.7 | 115.6 | 84.9 | 69.5 | 66.1 | 66.8 |
| 50° | 5005.3 | 4251.0 | 482.4 | 214.5 | 190.4 | 137.0 | 85.5 | 61.5 | 52.8 | 52.8 | 53.5 |
| 52.5° | 5706.9 | 4606.4 | 376.2 | 193.8 | 162.4 | 107.6 | 64.8 | 48.1 | 44.1 | 43.4 | 44.1 |
| 55° | 6363.7 | 4835.6 | 288.0 | 169.7 | 129.0 | 80.2 | 49.4 | 39.4 | 36.7 | 35.4 | 34.7 |
| 57.5° | 6997.2 | 4949.2 | 215.8 | 137.0 | 93.5 | 58.1 | 39.4 | 33.4 | 30.7 | 28.7 | 28.1 |
| 60° | 7418.8 | 4857.0 | 148.3 | 100.9 | 64.8 | 42.1 | 32.7 | 28.7 | 25.4 | 23.4 | 22.7 |
| 62.5° | 7656.7 | 4605.1 | 95.5 | 72.8 | 46.1 | 31.4 | 26.1 | 24.1 | 19.4 | 17.4 | 17.4 |
| 65° | 7560.4 | 4189.5 | 66.8 | 52.1 | 33.4 | 23.4 | 19.4 | 19.4 | 14.0 | 11.4 | 10.7 |
| 67.5° | 6699.8 | 3539.3 | 50.8 | 38.8 | 24.1 | 17.4 | 14.7 | 16.7 | 8.7 | 5.3 | 5.3 |
| 69° | 5764.4 | 2933.3 | 43.4 | 32.1 | 20.0 | 14.0 | 12.7 | 15.4 | 6.0 | 4.0 | 3.3 |
| 70° | 5010.0 | 2530.4 | 39.4 | 28.1 | 16.7 | 12.0 | 11.4 | 14.7 | 6.0 | 3.3 | 2.7 |
| 72.5° | 2997.4 | 1411.2 | 30.1 | 20.0 | 10.7 | 9.4 | 9.4 | 16.7 | 6.0 | 3.3 | 2.7 |
| 75° | 1211.4 | 497.1 | 22.0 | 14.0 | 8.0 | 8.0 | 11.4 | 21.4 | 5.3 | 2.7 | 2.0 |
| 77.5° | 274.6 | 108.9 | 12.7 | 8.7 | 5.3 | 8.0 | 13.4 | 16.7 | 3.3 | 1.3 | 0.0 |
| 80° | 66.8 | 26.7 | 8.0 | 5.3 | 3.3 | 6.0 | 10.0 | 9.4 | 0.7 | 0.0 | 0.0 |
| 82.5° | 22.0 | 9.4 | 3.3 | 2.7 | 0.7 | 2.0 | 4.7 | 2.7 | 0.0 | 0.0 | 0.0 |
| 85° | 9.4 | 5.3 | 1.3 | 0.7 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 6.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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)