

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: P322848

Luminaire Tested: **GAN-SA4C-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322848
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-SA4C-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 18833 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

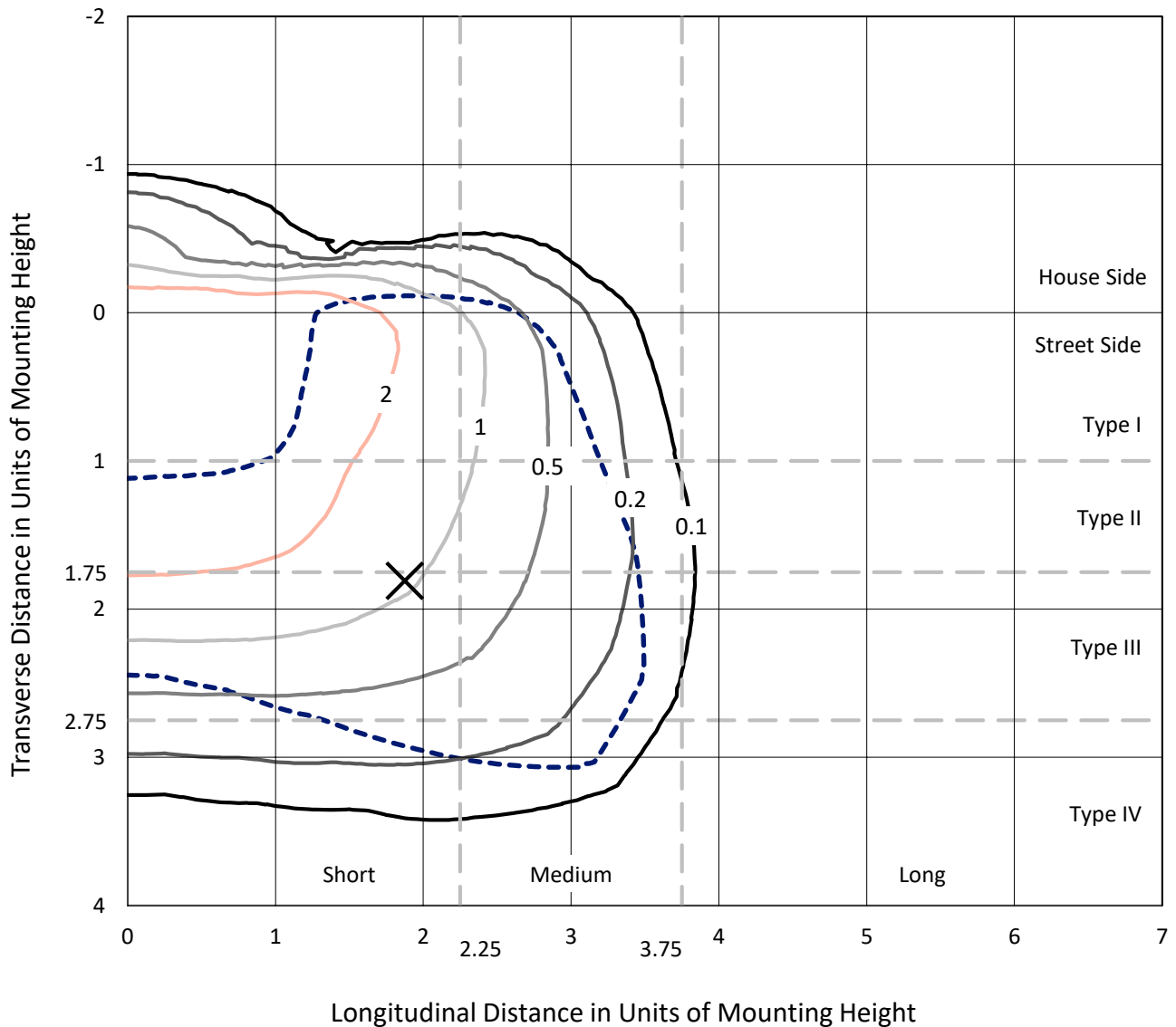
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

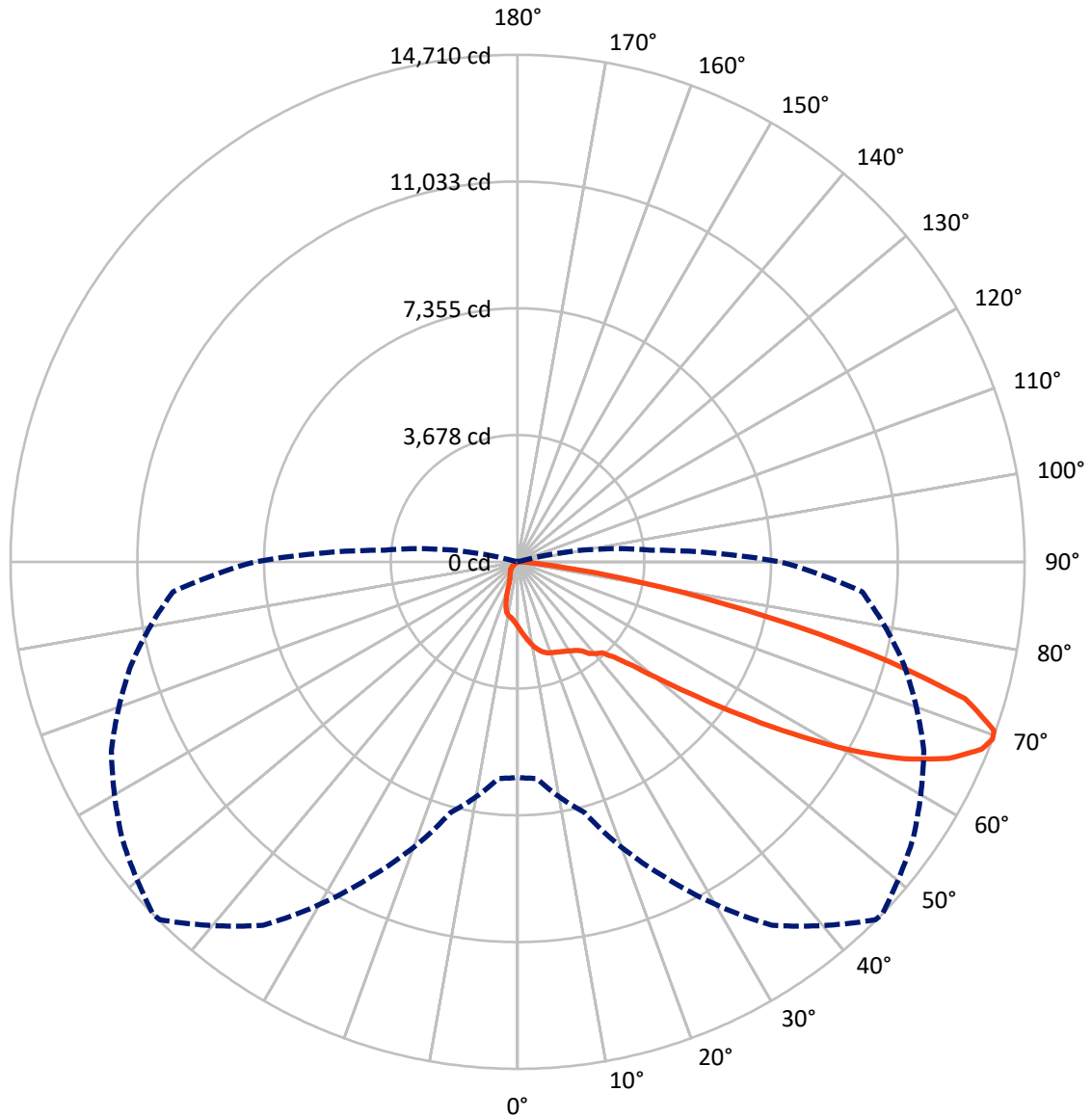
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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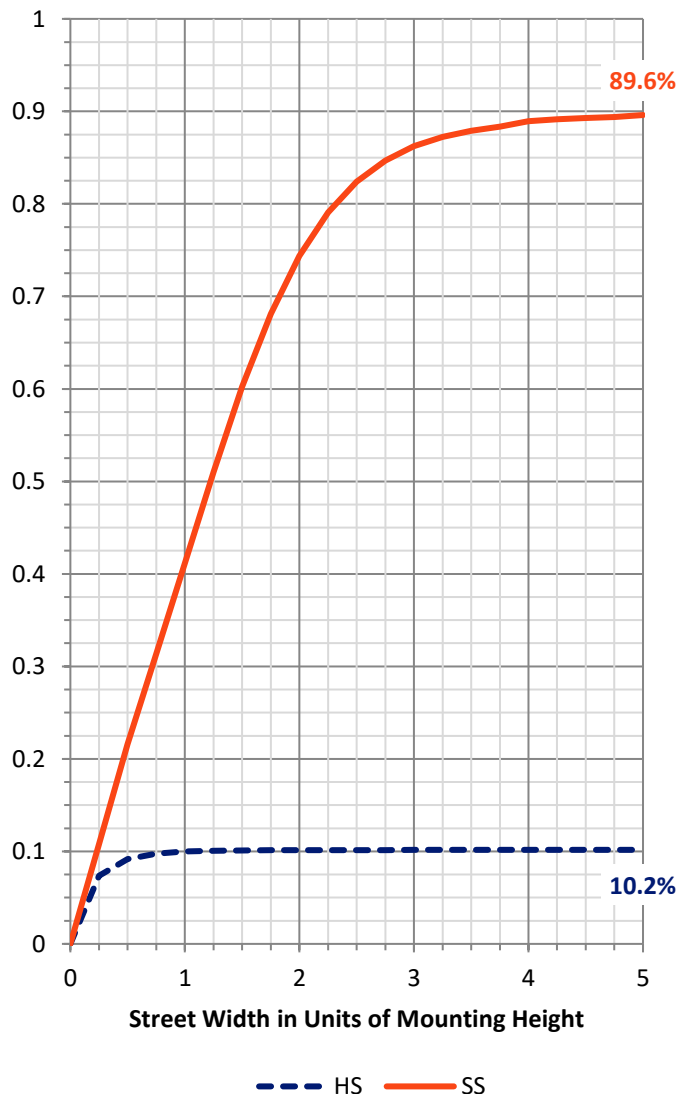
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1932.8 | 0.0 | 1932.8 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 16900.2 | 0.0 | 16900.2 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 18833.0 | 0.0 | 18833.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 187.8 | 1.0 |
| 10°-20° | 569.8 | 3.0 |
| 20°-30° | 896.1 | 4.8 |
| 30°-40° | 1285.0 | 6.8 |
| 40°-50° | 2221.0 | 11.8 |
| 50°-60° | 4387.8 | 23.3 |
| 60°-70° | 6132.4 | 32.6 |
| 70°-80° | 2962.6 | 15.7 |
| 80°-90° | 190.4 | 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° | 18833.0 | 100.0 |
| 0°-180° | 18833.0 | 100.0 |

Coefficient of Utilization



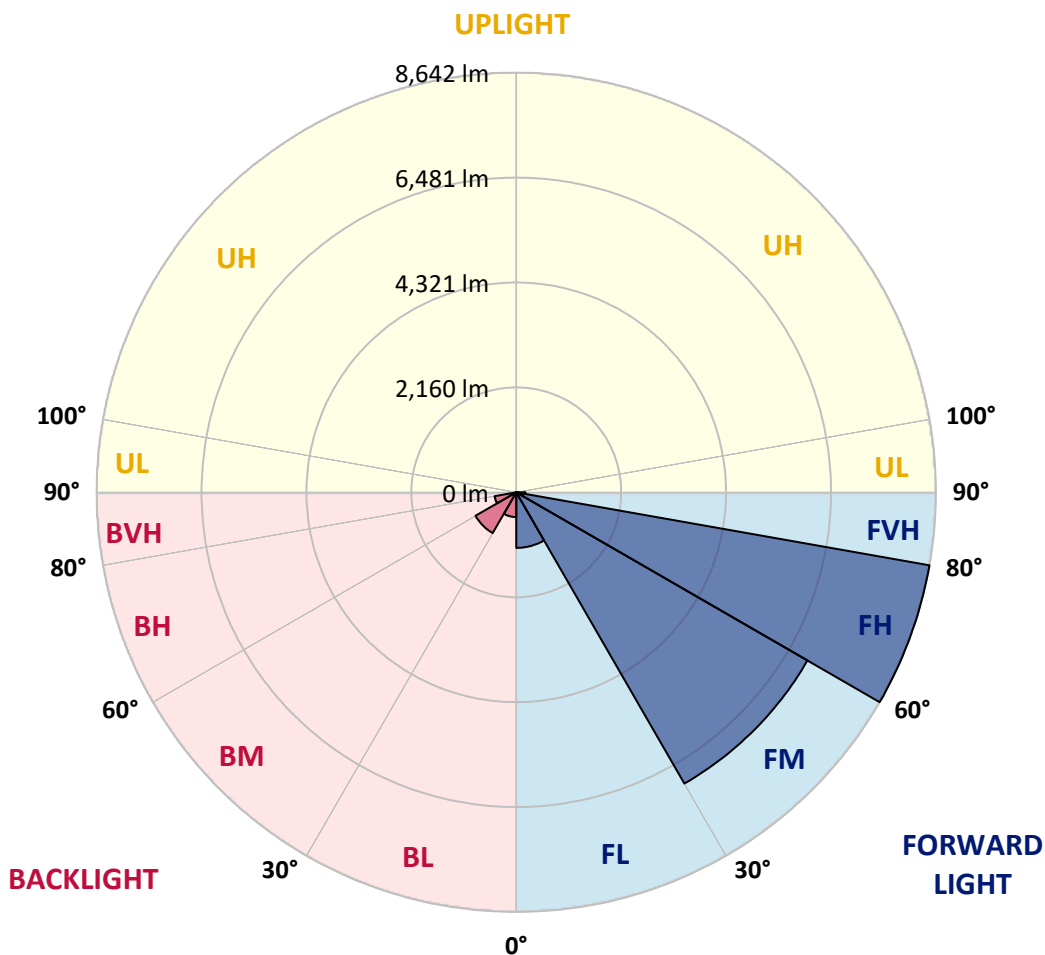
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1144.3 | 6.1 | | | |
| FM (30°-60°) | 6925.3 | 36.8 | | | |
| FH (60°-80°) | 8641.8 | 45.9 | | | G4/12000 |
| FVH (80°-90°) | 188.8 | 1.0 | | | G2/225 |
| BL (0°-30°) | 509.4 | 2.7 | B2/1000 | | |
| BM (30°-60°) | 968.6 | 5.1 | B1/1000 | | |
| BH (60°-80°) | 453.2 | 2.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1887.0 | 1887.0 | 1887.0 | 1887.0 | 1887.0 | 1887.0 | 1887.0 | 1887.0 | 1887.0 | 1887.0 | 1887.0 |
| 2.5° | 2096.3 | 2093.6 | 2081.3 | 2076.0 | 2045.9 | 2028.3 | 2021.2 | 1999.1 | 1967.4 | 1935.6 | 1900.2 |
| 5° | 2334.7 | 2333.8 | 2310.8 | 2288.8 | 2232.3 | 2179.3 | 2169.6 | 2118.3 | 2046.8 | 1979.7 | 1912.6 |
| 7.5° | 2578.4 | 2566.9 | 2544.0 | 2501.6 | 2419.5 | 2334.7 | 2326.7 | 2254.3 | 2152.8 | 2055.7 | 1959.4 |
| 10° | 2785.0 | 2778.0 | 2747.9 | 2683.5 | 2587.2 | 2491.0 | 2481.3 | 2392.1 | 2277.3 | 2158.1 | 2035.3 |
| 12.5° | 2945.7 | 2940.4 | 2900.7 | 2820.3 | 2717.9 | 2618.1 | 2604.9 | 2525.4 | 2402.7 | 2269.3 | 2124.5 |
| 15° | 3043.7 | 3041.1 | 2992.5 | 2906.9 | 2806.2 | 2719.7 | 2708.2 | 2638.4 | 2524.5 | 2385.0 | 2221.7 |
| 17.5° | 3066.7 | 3067.6 | 3017.3 | 2930.7 | 2847.7 | 2785.9 | 2777.1 | 2724.1 | 2628.7 | 2490.1 | 2318.8 |
| 20° | 3015.5 | 3026.1 | 2981.0 | 2906.0 | 2854.8 | 2822.1 | 2815.0 | 2783.3 | 2702.9 | 2572.2 | 2396.5 |
| 22.5° | 2943.1 | 2948.4 | 2917.5 | 2867.1 | 2845.9 | 2852.1 | 2848.6 | 2830.9 | 2762.9 | 2642.9 | 2473.3 |
| 25° | 2898.9 | 2898.9 | 2880.4 | 2838.0 | 2852.1 | 2890.1 | 2891.0 | 2887.4 | 2833.6 | 2729.4 | 2566.9 |
| 27.5° | 2897.2 | 2891.9 | 2870.7 | 2838.9 | 2877.7 | 2936.0 | 2939.5 | 2963.4 | 2929.8 | 2834.5 | 2683.5 |
| 30° | 2967.8 | 2961.6 | 2916.6 | 2875.1 | 2924.5 | 2987.2 | 2996.1 | 3048.2 | 3031.4 | 2948.4 | 2813.3 |
| 32.5° | 3132.9 | 3110.9 | 3011.1 | 2943.1 | 2980.2 | 3055.2 | 3066.7 | 3149.7 | 3176.2 | 3088.8 | 2938.7 |
| 35° | 3359.0 | 3289.2 | 3145.3 | 3072.0 | 3075.5 | 3154.1 | 3164.7 | 3286.6 | 3365.2 | 3217.7 | 3035.8 |
| 37.5° | 3670.7 | 3636.2 | 3402.2 | 3206.2 | 3222.1 | 3341.3 | 3372.2 | 3504.7 | 3482.6 | 3288.3 | 3146.2 |
| 40° | 4354.1 | 4300.3 | 4051.3 | 3582.4 | 3362.5 | 3493.2 | 3502.9 | 3573.5 | 3575.3 | 3448.2 | 3375.8 |
| 42.5° | 5284.8 | 5262.8 | 5000.5 | 4264.9 | 3638.9 | 3594.7 | 3612.4 | 3731.6 | 3864.9 | 3785.5 | 3781.9 |
| 45° | 6315.3 | 6303.8 | 6025.7 | 5170.9 | 4197.8 | 3927.6 | 3949.7 | 4109.5 | 4364.7 | 4382.4 | 4494.5 |
| 47.5° | 7144.4 | 7139.2 | 6979.3 | 6182.0 | 5053.5 | 4491.9 | 4498.9 | 4668.5 | 5117.1 | 5338.7 | 5517.9 |
| 50° | 7900.3 | 7925.9 | 7799.6 | 7276.0 | 6219.1 | 5375.8 | 5359.0 | 5472.0 | 6192.6 | 6555.5 | 6778.0 |
| 52.5° | 8951.1 | 8987.3 | 8633.2 | 8296.8 | 7442.0 | 6472.5 | 6459.2 | 6577.6 | 7485.3 | 7757.3 | 7797.0 |
| 55° | 9879.1 | 9817.3 | 9537.4 | 9440.3 | 8933.4 | 7827.0 | 7823.5 | 7927.7 | 8735.6 | 8851.3 | 8924.6 |
| 57.5° | 10288.9 | 10265.0 | 10400.1 | 10622.6 | 10495.5 | 9427.9 | 9420.0 | 9340.5 | 9854.4 | 9866.8 | 10091.9 |
| 60° | 10547.6 | 10576.7 | 10990.8 | 11676.9 | 11993.9 | 11150.7 | 11099.5 | 10614.7 | 10922.9 | 10895.5 | 11136.5 |
| 62.5° | 10353.3 | 10410.7 | 11156.0 | 12299.5 | 13115.4 | 12654.4 | 12582.0 | 11782.0 | 11835.9 | 11741.4 | 11965.7 |
| 65° | 9322.0 | 9411.1 | 10632.3 | 12182.0 | 13671.7 | 13829.7 | 13756.4 | 12812.5 | 12560.8 | 12405.4 | 12280.9 |
| 67.5° | 7569.2 | 7622.2 | 8897.2 | 11160.4 | 13420.9 | 14530.8 | 14515.8 | 13715.8 | 13108.3 | 12293.3 | 11327.3 |
| 69° | 6255.3 | 6307.4 | 7534.7 | 10084.9 | 12869.0 | 14681.0 | 14710.1 | 14005.5 | 13004.1 | 11611.6 | 10036.3 |
| 70° | 5298.1 | 5353.7 | 6497.2 | 9163.0 | 12228.8 | 14611.2 | 14663.3 | 13978.1 | 12705.7 | 10822.2 | 8903.4 |
| 72.5° | 2778.8 | 2826.5 | 4000.0 | 6312.7 | 9969.2 | 13416.5 | 13574.5 | 12796.6 | 10770.1 | 7859.7 | 5264.5 |
| 75° | 873.3 | 900.7 | 1562.0 | 3299.8 | 6825.7 | 10431.9 | 10468.1 | 10038.1 | 7647.8 | 4323.2 | 2192.5 |
| 77.5° | 332.9 | 324.9 | 520.1 | 1215.9 | 3450.8 | 6568.7 | 6790.4 | 6272.9 | 4013.3 | 1528.5 | 506.0 |
| 80° | 179.3 | 180.1 | 270.2 | 503.3 | 1476.4 | 3375.8 | 3563.0 | 3040.2 | 1426.1 | 476.8 | 116.6 |
| 82.5° | 77.7 | 81.2 | 151.9 | 266.7 | 678.2 | 1245.0 | 1338.6 | 1114.4 | 544.8 | 320.5 | 43.3 |
| 85° | 16.8 | 18.5 | 73.3 | 144.8 | 276.4 | 349.7 | 366.4 | 361.2 | 347.0 | 249.0 | 16.8 |
| 87.5° | 0.0 | 0.0 | 32.7 | 52.1 | 69.8 | 79.5 | 69.8 | 91.0 | 191.6 | 167.8 | 8.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P322848

CATALOG NUMBER: GAN-SA4C-730-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1887.0 | 1887.0 | 1887.0 | 1887.0 | 1887.0 | 1887.0 | 1887.0 | 1887.0 | 1887.0 | 1887.0 | 1887.0 |
| 2.5° | 1888.8 | 1872.9 | 1845.5 | 1815.5 | 1794.3 | 1772.2 | 1754.5 | 1746.6 | 1737.8 | 1731.6 | 1739.5 |
| 5° | 1885.2 | 1854.3 | 1801.3 | 1750.1 | 1713.0 | 1683.0 | 1658.3 | 1648.6 | 1638.9 | 1631.8 | 1630.9 |
| 7.5° | 1916.1 | 1872.9 | 1791.6 | 1716.6 | 1659.2 | 1618.6 | 1585.0 | 1570.9 | 1559.4 | 1554.1 | 1549.7 |
| 10° | 1975.3 | 1919.7 | 1811.1 | 1713.0 | 1638.9 | 1570.0 | 1497.6 | 1442.0 | 1405.8 | 1389.0 | 1382.8 |
| 12.5° | 2052.1 | 1982.4 | 1848.1 | 1731.6 | 1623.9 | 1491.4 | 1337.8 | 1205.3 | 1119.7 | 1091.4 | 1074.6 |
| 15° | 2142.2 | 2055.7 | 1896.7 | 1755.4 | 1569.1 | 1327.2 | 1066.7 | 893.6 | 814.1 | 798.2 | 780.6 |
| 17.5° | 2228.7 | 2133.4 | 1955.0 | 1759.8 | 1449.0 | 1060.5 | 781.5 | 664.0 | 633.1 | 643.7 | 646.4 |
| 20° | 2304.7 | 2210.2 | 2012.4 | 1721.0 | 1230.9 | 795.6 | 604.9 | 575.7 | 587.2 | 607.5 | 611.0 |
| 22.5° | 2381.5 | 2284.4 | 2065.4 | 1618.6 | 951.9 | 604.0 | 544.8 | 551.9 | 563.4 | 583.7 | 587.2 |
| 25° | 2475.1 | 2374.4 | 2114.8 | 1430.5 | 714.4 | 513.9 | 517.4 | 528.0 | 539.5 | 558.1 | 559.8 |
| 27.5° | 2582.8 | 2488.3 | 2147.5 | 1185.9 | 529.8 | 472.4 | 483.9 | 499.8 | 511.3 | 528.9 | 532.5 |
| 30° | 2725.9 | 2638.4 | 2158.1 | 932.5 | 444.2 | 435.3 | 440.6 | 460.0 | 476.8 | 492.7 | 495.4 |
| 32.5° | 2860.1 | 2786.8 | 2122.8 | 703.8 | 411.5 | 400.9 | 400.9 | 412.4 | 431.8 | 446.8 | 450.3 |
| 35° | 2983.7 | 2936.0 | 2009.7 | 514.8 | 386.8 | 369.1 | 360.3 | 360.3 | 372.6 | 385.0 | 388.5 |
| 37.5° | 3147.1 | 3145.3 | 1827.0 | 410.6 | 362.9 | 342.6 | 324.1 | 309.9 | 305.5 | 308.2 | 309.9 |
| 40° | 3427.0 | 3429.6 | 1588.5 | 368.2 | 342.6 | 315.2 | 287.0 | 261.4 | 237.5 | 229.6 | 228.7 |
| 42.5° | 3864.1 | 3824.3 | 1338.6 | 347.9 | 324.9 | 287.0 | 244.6 | 210.2 | 173.1 | 161.6 | 160.7 |
| 45° | 4558.1 | 4322.3 | 1073.7 | 329.4 | 306.4 | 255.2 | 202.2 | 155.4 | 125.4 | 116.6 | 116.6 |
| 47.5° | 5569.2 | 4976.7 | 831.8 | 309.1 | 281.7 | 219.0 | 152.8 | 112.1 | 91.8 | 87.4 | 88.3 |
| 50° | 6614.6 | 5617.7 | 637.5 | 283.4 | 251.7 | 181.0 | 113.0 | 81.2 | 69.8 | 69.8 | 70.6 |
| 52.5° | 7541.8 | 6087.5 | 497.1 | 256.1 | 214.6 | 142.2 | 85.7 | 63.6 | 58.3 | 57.4 | 58.3 |
| 55° | 8409.8 | 6390.4 | 380.6 | 224.3 | 170.4 | 106.0 | 65.3 | 52.1 | 48.6 | 46.8 | 45.9 |
| 57.5° | 9246.9 | 6540.5 | 285.2 | 181.0 | 123.6 | 76.8 | 52.1 | 44.2 | 40.6 | 38.0 | 37.1 |
| 60° | 9804.1 | 6418.6 | 196.0 | 133.3 | 85.7 | 55.6 | 43.3 | 38.0 | 33.6 | 30.9 | 30.0 |
| 62.5° | 10118.4 | 6085.7 | 126.3 | 96.2 | 60.9 | 41.5 | 34.4 | 31.8 | 25.6 | 23.0 | 23.0 |
| 65° | 9991.3 | 5536.5 | 88.3 | 68.9 | 44.2 | 30.9 | 25.6 | 25.6 | 18.5 | 15.0 | 14.1 |
| 67.5° | 8854.0 | 4677.3 | 67.1 | 51.2 | 31.8 | 23.0 | 19.4 | 22.1 | 11.5 | 7.1 | 7.1 |
| 69° | 7617.7 | 3876.4 | 57.4 | 42.4 | 26.5 | 18.5 | 16.8 | 20.3 | 7.9 | 5.3 | 4.4 |
| 70° | 6620.8 | 3344.0 | 52.1 | 37.1 | 22.1 | 15.9 | 15.0 | 19.4 | 7.9 | 4.4 | 3.5 |
| 72.5° | 3961.2 | 1864.9 | 39.7 | 26.5 | 14.1 | 12.4 | 12.4 | 22.1 | 7.9 | 4.4 | 3.5 |
| 75° | 1600.9 | 657.0 | 29.1 | 18.5 | 10.6 | 10.6 | 15.0 | 28.3 | 7.1 | 3.5 | 2.6 |
| 77.5° | 362.9 | 143.9 | 16.8 | 11.5 | 7.1 | 10.6 | 17.7 | 22.1 | 4.4 | 1.8 | 0.0 |
| 80° | 88.3 | 35.3 | 10.6 | 7.1 | 4.4 | 7.9 | 13.2 | 12.4 | 0.9 | 0.0 | 0.0 |
| 82.5° | 29.1 | 12.4 | 4.4 | 3.5 | 0.9 | 2.6 | 6.2 | 3.5 | 0.0 | 0.0 | 0.0 |
| 85° | 12.4 | 7.1 | 1.8 | 0.9 | 0.0 | 0.0 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 7.9 | 2.6 | 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)