

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: P322937

Luminaire Tested: **GAN-SA3D-750-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322937
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-SA3D-750-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1200mA 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: 17168 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 191
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

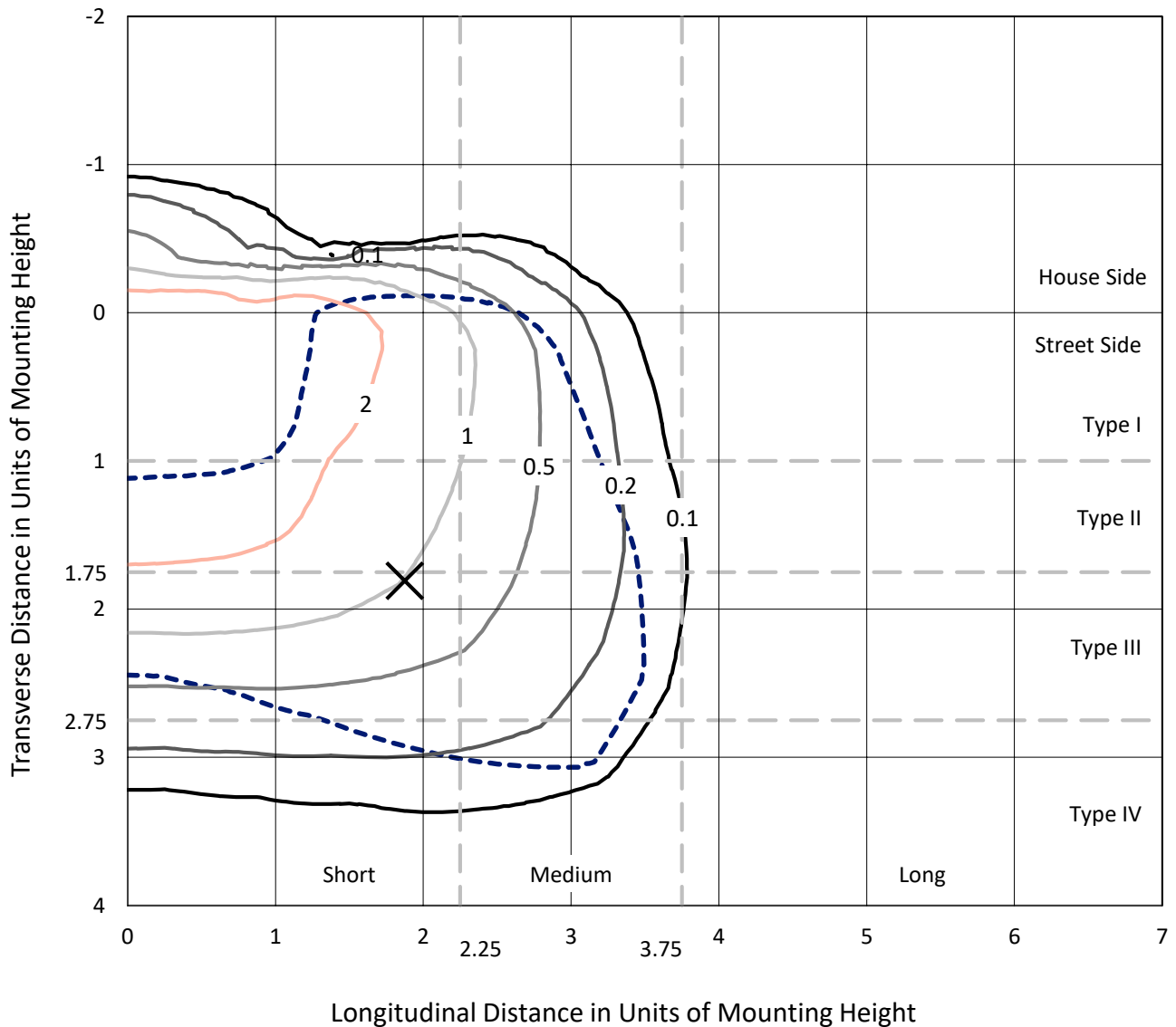




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Iso-Footcandle Lines of Horizontal Illumination

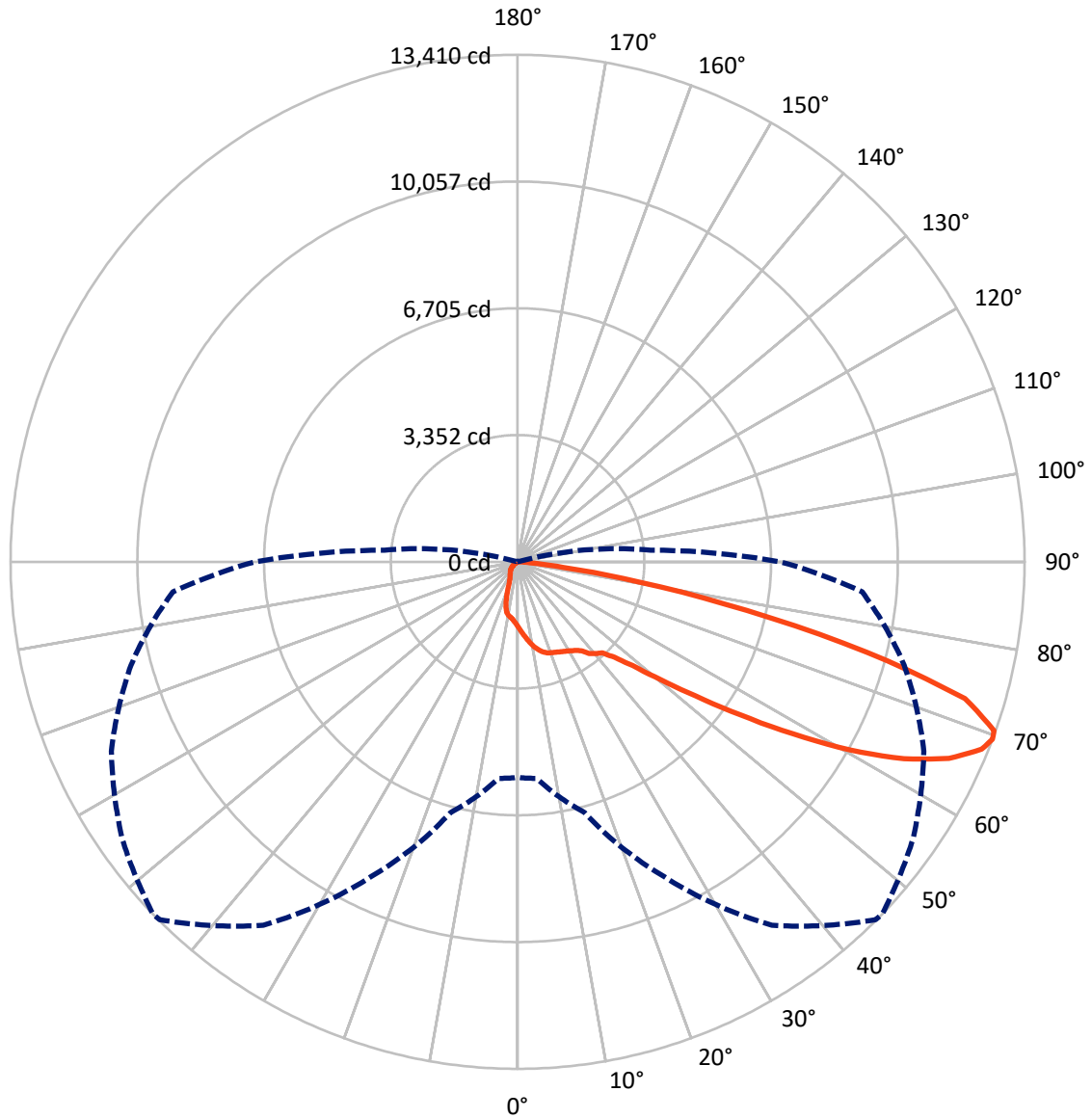
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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 | 1761.9 | 0.0 | 1761.9 |
| | % Fixture | 10.3 | 0.0 | 10.3 |
| Street Side | Lumens | 15406.1 | 0.0 | 15406.1 |
| | % Fixture | 89.7 | 0.0 | 89.7 |
| Total | Lumens | 17168.0 | 0.0 | 17168.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 171.2 | 1.0 |
| 10°-20° | 519.4 | 3.0 |
| 20°-30° | 816.9 | 4.8 |
| 30°-40° | 1171.4 | 6.8 |
| 40°-50° | 2024.7 | 11.8 |
| 50°-60° | 3999.9 | 23.3 |
| 60°-70° | 5590.2 | 32.6 |
| 70°-80° | 2700.7 | 15.7 |
| 80°-90° | 173.6 | 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° | 17168.0 | 100.0 |
| 0°-180° | 17168.0 | 100.0 |

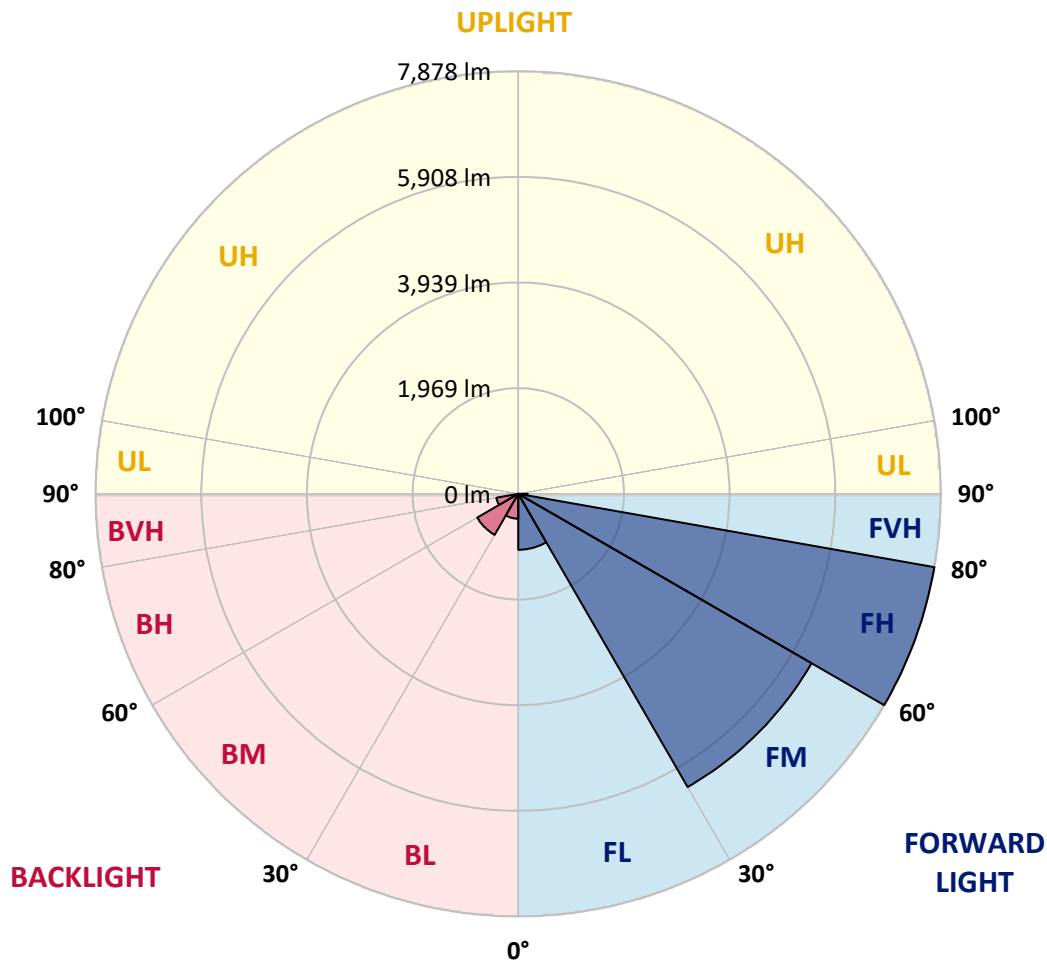


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1043.2 | 6.1 | | | |
| FM (30°-60°) | 6313.1 | 36.8 | | | |
| FH (60°-80°) | 7877.8 | 45.9 | | | G4/12000 |
| FVH (80°-90°) | 172.1 | 1.0 | | | G2/225 |
| BL (0°-30°) | 464.4 | 2.7 | B1/500 | | |
| BM (30°-60°) | 882.9 | 5.1 | B1/1000 | | |
| BH (60°-80°) | 413.1 | 2.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.5 | 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-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 46° | 55° | 65° | 75° | 85° |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1720.2 | 1720.2 | 1720.2 | 1720.2 | 1720.2 | 1720.2 | 1720.2 | 1720.2 | 1720.2 | 1720.2 | 1720.2 |
| 2.5° | 1910.9 | 1908.5 | 1897.3 | 1892.4 | 1865.1 | 1849.0 | 1842.5 | 1822.4 | 1793.4 | 1764.4 | 1732.2 |
| 5° | 2128.3 | 2127.5 | 2106.5 | 2086.4 | 2034.9 | 1986.6 | 1977.8 | 1931.1 | 1865.9 | 1804.7 | 1743.5 |
| 7.5° | 2350.4 | 2340.0 | 2319.0 | 2280.4 | 2205.6 | 2128.3 | 2121.0 | 2055.0 | 1962.5 | 1873.9 | 1786.2 |
| 10° | 2538.8 | 2532.4 | 2505.0 | 2446.2 | 2358.5 | 2270.8 | 2261.9 | 2180.6 | 2076.0 | 1967.3 | 1855.4 |
| 12.5° | 2685.3 | 2680.5 | 2644.2 | 2571.0 | 2477.6 | 2386.7 | 2374.6 | 2302.1 | 2190.3 | 2068.7 | 1936.7 |
| 15° | 2774.6 | 2772.2 | 2728.0 | 2649.9 | 2558.1 | 2479.2 | 2468.8 | 2405.2 | 2301.3 | 2174.2 | 2025.2 |
| 17.5° | 2795.6 | 2796.4 | 2750.5 | 2671.6 | 2596.0 | 2539.6 | 2531.6 | 2483.3 | 2396.3 | 2269.9 | 2113.8 |
| 20° | 2748.9 | 2758.5 | 2717.5 | 2649.1 | 2602.4 | 2572.6 | 2566.2 | 2537.2 | 2463.9 | 2344.8 | 2184.6 |
| 22.5° | 2682.9 | 2687.7 | 2659.5 | 2613.7 | 2594.3 | 2600.0 | 2596.8 | 2580.7 | 2518.7 | 2409.2 | 2254.7 |
| 25° | 2642.6 | 2642.6 | 2625.7 | 2587.1 | 2600.0 | 2634.6 | 2635.4 | 2632.2 | 2583.1 | 2488.1 | 2340.0 |
| 27.5° | 2641.0 | 2636.2 | 2616.9 | 2587.9 | 2623.3 | 2676.4 | 2679.7 | 2701.4 | 2670.8 | 2583.9 | 2446.2 |
| 30° | 2705.4 | 2699.8 | 2658.7 | 2620.9 | 2666.0 | 2723.1 | 2731.2 | 2778.7 | 2763.4 | 2687.7 | 2564.6 |
| 32.5° | 2855.9 | 2835.8 | 2744.9 | 2682.9 | 2716.7 | 2785.1 | 2795.6 | 2871.2 | 2895.4 | 2815.7 | 2678.9 |
| 35° | 3062.0 | 2998.4 | 2867.2 | 2800.4 | 2803.6 | 2875.3 | 2884.9 | 2996.0 | 3067.6 | 2933.2 | 2767.4 |
| 37.5° | 3346.2 | 3314.8 | 3101.5 | 2922.8 | 2937.2 | 3045.9 | 3074.1 | 3194.8 | 3174.7 | 2997.6 | 2868.0 |
| 40° | 3969.2 | 3920.1 | 3693.1 | 3265.7 | 3065.2 | 3184.4 | 3193.2 | 3257.6 | 3259.2 | 3143.3 | 3077.3 |
| 42.5° | 4817.6 | 4797.5 | 4558.4 | 3887.9 | 3317.2 | 3276.9 | 3293.0 | 3401.7 | 3523.2 | 3450.8 | 3447.6 |
| 45° | 5757.0 | 5746.5 | 5493.0 | 4713.8 | 3826.7 | 3580.4 | 3600.5 | 3746.2 | 3978.8 | 3994.9 | 4097.2 |
| 47.5° | 6512.8 | 6508.0 | 6362.3 | 5635.4 | 4606.7 | 4094.8 | 4101.2 | 4255.7 | 4664.7 | 4866.7 | 5030.1 |
| 50° | 7201.9 | 7225.2 | 7110.1 | 6632.8 | 5669.2 | 4900.5 | 4885.2 | 4988.2 | 5645.1 | 5975.9 | 6178.8 |
| 52.5° | 8159.7 | 8192.7 | 7870.0 | 7563.3 | 6784.1 | 5900.3 | 5888.2 | 5996.0 | 6823.5 | 7071.4 | 7107.7 |
| 55° | 9005.7 | 8949.4 | 8694.2 | 8605.7 | 8143.6 | 7135.0 | 7131.8 | 7226.8 | 7963.3 | 8068.8 | 8135.6 |
| 57.5° | 9379.2 | 9357.5 | 9480.7 | 9683.5 | 9567.6 | 8594.4 | 8587.2 | 8514.7 | 8983.2 | 8994.5 | 9199.7 |
| 60° | 9615.1 | 9641.6 | 10019.2 | 10644.6 | 10933.6 | 10164.9 | 10118.2 | 9676.3 | 9957.2 | 9932.2 | 10152.0 |
| 62.5° | 9438.0 | 9490.3 | 10169.7 | 11212.1 | 11955.9 | 11535.7 | 11469.7 | 10740.4 | 10789.5 | 10703.4 | 10907.8 |
| 65° | 8497.8 | 8579.1 | 9692.4 | 11105.0 | 12463.0 | 12607.1 | 12540.3 | 11679.8 | 11450.4 | 11308.7 | 11195.2 |
| 67.5° | 6900.0 | 6948.3 | 8110.6 | 10173.7 | 12234.4 | 13246.2 | 13232.5 | 12503.2 | 11949.4 | 11206.5 | 10325.8 |
| 69° | 5702.2 | 5749.7 | 6868.6 | 9193.3 | 11731.3 | 13383.0 | 13409.6 | 12767.2 | 11854.4 | 10585.0 | 9149.0 |
| 70° | 4829.7 | 4880.4 | 5922.8 | 8352.9 | 11147.7 | 13319.4 | 13366.9 | 12742.3 | 11582.4 | 9865.4 | 8116.3 |
| 72.5° | 2533.2 | 2576.6 | 3646.4 | 5754.6 | 9087.8 | 12230.3 | 12374.4 | 11665.3 | 9817.9 | 7164.8 | 4799.1 |
| 75° | 796.1 | 821.0 | 1423.9 | 3008.1 | 6222.2 | 9509.6 | 9542.6 | 9150.6 | 6971.6 | 3941.0 | 1998.7 |
| 77.5° | 303.5 | 296.2 | 474.1 | 1108.4 | 3145.7 | 5988.0 | 6190.0 | 5718.3 | 3658.5 | 1393.4 | 461.2 |
| 80° | 163.4 | 164.2 | 246.3 | 458.8 | 1345.9 | 3077.3 | 3248.0 | 2771.4 | 1300.0 | 434.7 | 106.3 |
| 82.5° | 70.8 | 74.1 | 138.5 | 243.1 | 618.2 | 1135.0 | 1220.3 | 1015.8 | 496.7 | 292.2 | 39.4 |
| 85° | 15.3 | 16.9 | 66.8 | 132.0 | 251.9 | 318.8 | 334.1 | 329.2 | 316.3 | 227.0 | 15.3 |
| 87.5° | 0.0 | 0.0 | 29.8 | 47.5 | 63.6 | 72.4 | 63.6 | 82.9 | 174.7 | 152.9 | 8.0 |
| 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-SA3D-750-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1720.2 | 1720.2 | 1720.2 | 1720.2 | 1720.2 | 1720.2 | 1720.2 | 1720.2 | 1720.2 | 1720.2 | 1720.2 |
| 2.5° | 1721.8 | 1707.3 | 1682.3 | 1655.0 | 1635.7 | 1615.5 | 1599.4 | 1592.2 | 1584.1 | 1578.5 | 1585.7 |
| 5° | 1718.6 | 1690.4 | 1642.1 | 1595.4 | 1561.6 | 1534.2 | 1511.7 | 1502.8 | 1494.0 | 1487.5 | 1486.7 |
| 7.5° | 1746.7 | 1707.3 | 1633.2 | 1564.8 | 1512.5 | 1475.5 | 1444.9 | 1432.0 | 1421.5 | 1416.7 | 1412.7 |
| 10° | 1800.7 | 1750.0 | 1650.9 | 1561.6 | 1494.0 | 1431.2 | 1365.2 | 1314.5 | 1281.5 | 1266.2 | 1260.5 |
| 12.5° | 1870.7 | 1807.1 | 1684.8 | 1578.5 | 1480.3 | 1359.6 | 1219.5 | 1098.8 | 1020.7 | 994.9 | 979.6 |
| 15° | 1952.8 | 1873.9 | 1729.0 | 1600.2 | 1430.4 | 1209.8 | 972.4 | 814.6 | 742.2 | 727.7 | 711.6 |
| 17.5° | 2031.7 | 1944.7 | 1782.2 | 1604.3 | 1320.9 | 966.7 | 712.4 | 605.3 | 577.1 | 586.8 | 589.2 |
| 20° | 2100.9 | 2014.8 | 1834.5 | 1568.8 | 1122.1 | 725.3 | 551.4 | 524.8 | 535.3 | 553.8 | 557.0 |
| 22.5° | 2170.9 | 2082.4 | 1882.8 | 1475.5 | 867.7 | 550.6 | 496.7 | 503.1 | 513.6 | 532.1 | 535.3 |
| 25° | 2256.3 | 2164.5 | 1927.8 | 1304.0 | 651.2 | 468.5 | 471.7 | 481.4 | 491.8 | 508.7 | 510.3 |
| 27.5° | 2354.5 | 2268.3 | 1957.6 | 1081.0 | 483.0 | 430.6 | 441.1 | 455.6 | 466.1 | 482.2 | 485.4 |
| 30° | 2484.9 | 2405.2 | 1967.3 | 850.0 | 404.9 | 396.8 | 401.7 | 419.4 | 434.7 | 449.2 | 451.6 |
| 32.5° | 2607.2 | 2540.4 | 1935.1 | 641.5 | 375.1 | 365.4 | 365.4 | 375.9 | 393.6 | 407.3 | 410.5 |
| 35° | 2719.9 | 2676.4 | 1832.1 | 469.3 | 352.6 | 336.5 | 328.4 | 328.4 | 339.7 | 351.0 | 354.2 |
| 37.5° | 2868.8 | 2867.2 | 1665.4 | 374.3 | 330.8 | 312.3 | 295.4 | 282.5 | 278.5 | 280.9 | 282.5 |
| 40° | 3124.0 | 3126.4 | 1448.1 | 335.7 | 312.3 | 287.4 | 261.6 | 238.3 | 216.5 | 209.3 | 208.5 |
| 42.5° | 3522.4 | 3486.2 | 1220.3 | 317.1 | 296.2 | 261.6 | 223.0 | 191.6 | 157.8 | 147.3 | 146.5 |
| 45° | 4155.1 | 3940.2 | 978.8 | 300.2 | 279.3 | 232.6 | 184.3 | 141.7 | 114.3 | 106.3 | 106.3 |
| 47.5° | 5076.8 | 4536.7 | 758.3 | 281.7 | 256.8 | 199.6 | 139.3 | 102.2 | 83.7 | 79.7 | 80.5 |
| 50° | 6029.8 | 5121.1 | 581.2 | 258.4 | 229.4 | 165.0 | 103.0 | 74.1 | 63.6 | 63.6 | 64.4 |
| 52.5° | 6875.0 | 5549.3 | 453.2 | 233.4 | 195.6 | 129.6 | 78.1 | 58.0 | 53.1 | 52.3 | 53.1 |
| 55° | 7666.3 | 5825.4 | 346.9 | 204.5 | 155.4 | 96.6 | 59.6 | 47.5 | 44.3 | 42.7 | 41.9 |
| 57.5° | 8429.4 | 5962.2 | 260.0 | 165.0 | 112.7 | 70.0 | 47.5 | 40.2 | 37.0 | 34.6 | 33.8 |
| 60° | 8937.3 | 5851.2 | 178.7 | 121.5 | 78.1 | 50.7 | 39.4 | 34.6 | 30.6 | 28.2 | 27.4 |
| 62.5° | 9223.9 | 5547.7 | 115.1 | 87.7 | 55.5 | 37.8 | 31.4 | 29.0 | 23.3 | 20.9 | 20.9 |
| 65° | 9108.0 | 5047.0 | 80.5 | 62.8 | 40.2 | 28.2 | 23.3 | 23.3 | 16.9 | 13.7 | 12.9 |
| 67.5° | 8071.2 | 4263.8 | 61.2 | 46.7 | 29.0 | 20.9 | 17.7 | 20.1 | 10.5 | 6.4 | 6.4 |
| 69° | 6944.3 | 3533.7 | 52.3 | 38.6 | 24.1 | 16.9 | 15.3 | 18.5 | 7.2 | 4.8 | 4.0 |
| 70° | 6035.5 | 3048.3 | 47.5 | 33.8 | 20.1 | 14.5 | 13.7 | 17.7 | 7.2 | 4.0 | 3.2 |
| 72.5° | 3611.0 | 1700.0 | 36.2 | 24.1 | 12.9 | 11.3 | 11.3 | 20.1 | 7.2 | 4.0 | 3.2 |
| 75° | 1459.4 | 598.9 | 26.6 | 16.9 | 9.7 | 9.7 | 13.7 | 25.8 | 6.4 | 3.2 | 2.4 |
| 77.5° | 330.8 | 131.2 | 15.3 | 10.5 | 6.4 | 9.7 | 16.1 | 20.1 | 4.0 | 1.6 | 0.0 |
| 80° | 80.5 | 32.2 | 9.7 | 6.4 | 4.0 | 7.2 | 12.1 | 11.3 | 0.8 | 0.0 | 0.0 |
| 82.5° | 26.6 | 11.3 | 4.0 | 3.2 | 0.8 | 2.4 | 5.6 | 3.2 | 0.0 | 0.0 | 0.0 |
| 85° | 11.3 | 6.4 | 1.6 | 0.8 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 7.2 | 2.4 | 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)