

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: P318762

Luminaire Tested: **GAN-SA8B-750-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-750-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46073 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

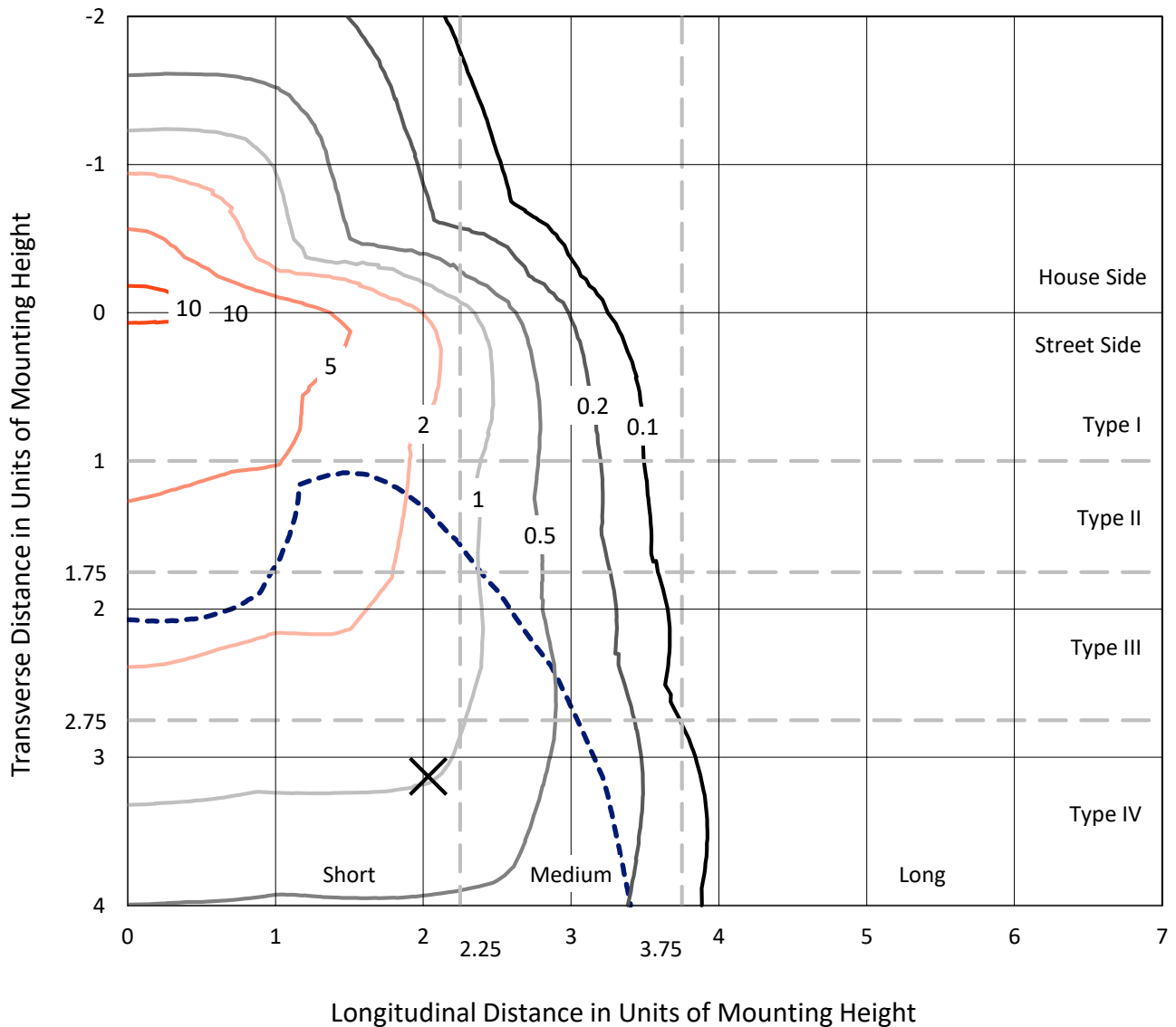
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

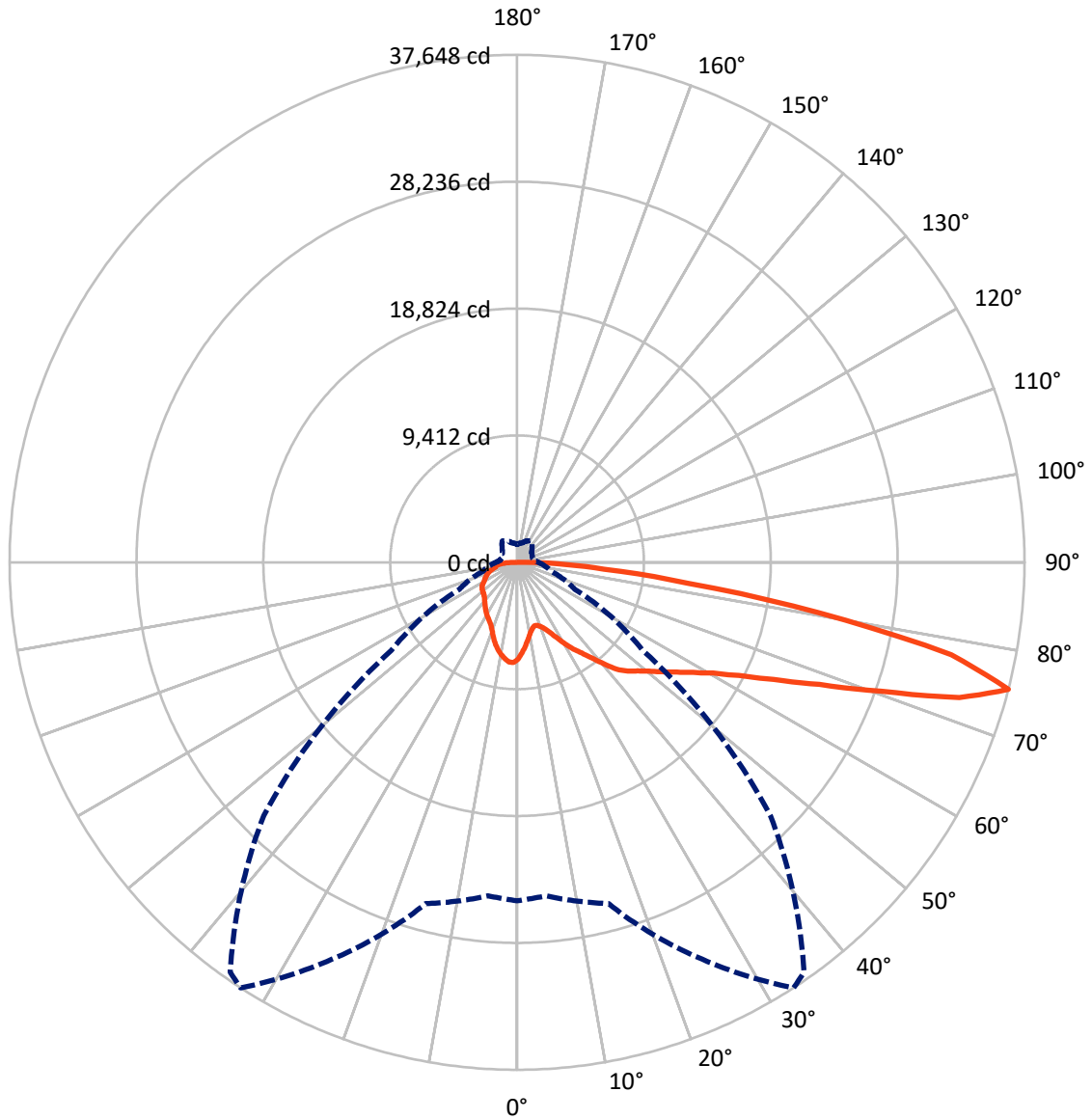
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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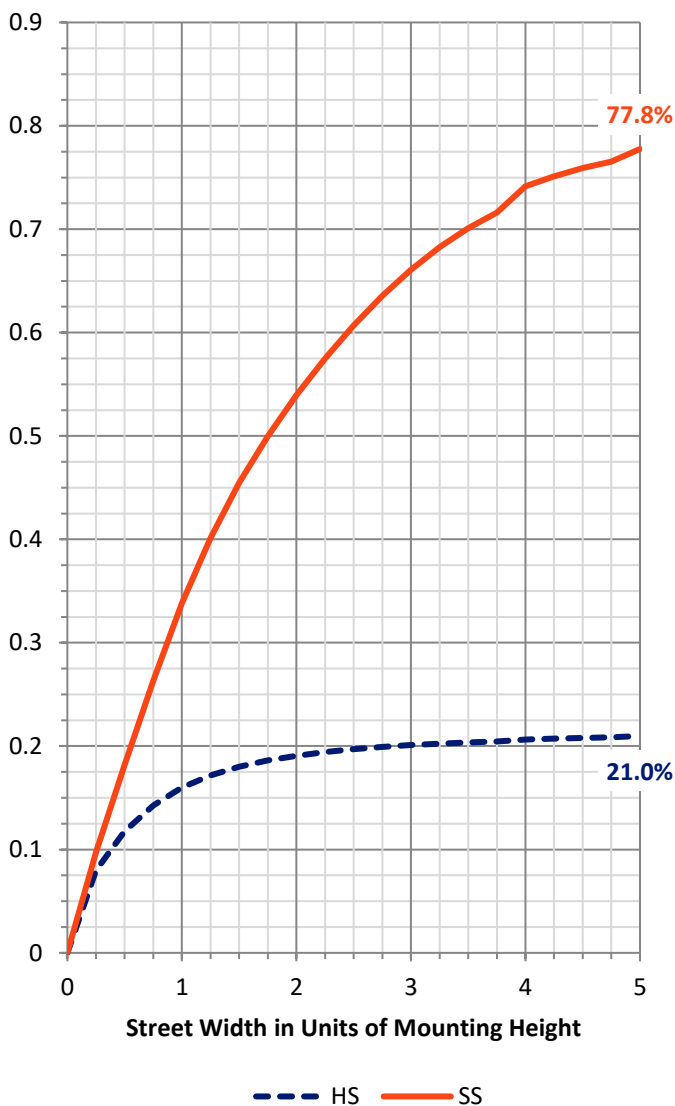
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9893.1 | 0.0 | 9893.1 |
| | % Fixture | 21.5 | 0.0 | 21.5 |
| Street Side | Lumens | 36179.9 | 0.0 | 36179.9 |
| | % Fixture | 78.5 | 0.0 | 78.5 |
| Total | Lumens | 46073.0 | 0.0 | 46073.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 651.3 | 1.4 |
| 10°-20° | 1763.9 | 3.8 |
| 20°-30° | 2880.8 | 6.3 |
| 30°-40° | 4290.2 | 9.3 |
| 40°-50° | 6153.3 | 13.4 |
| 50°-60° | 8447.5 | 18.3 |
| 60°-70° | 10575.9 | 23.0 |
| 70°-80° | 9567.5 | 20.8 |
| 80°-90° | 1742.8 | 3.8 |
| 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° | 46073.0 | 100.0 |
| 0°-180° | 46073.0 | 100.0 |

Coefficient of Utilization



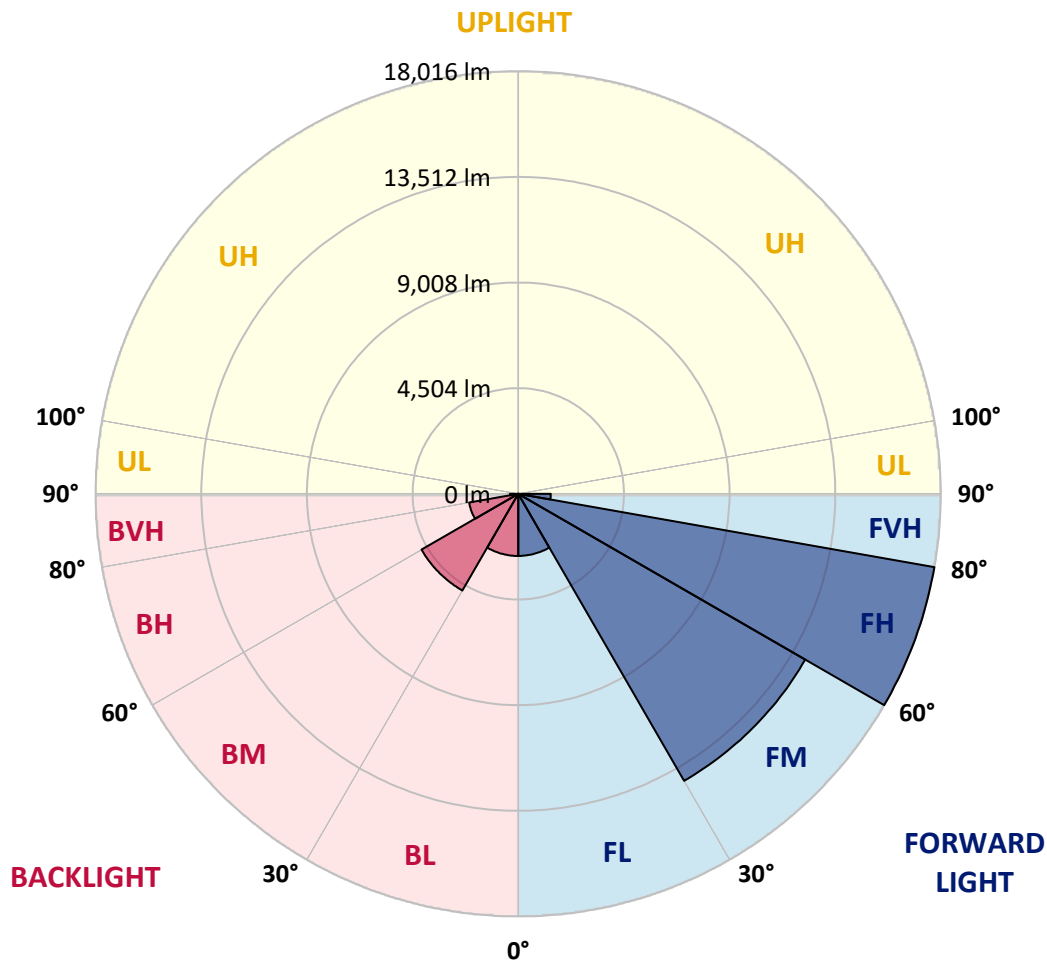
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2646.2 | 5.7 | | | |
| FM (30°-60°) | 14129.6 | 30.7 | | | |
| FH (60°-80°) | 18016.1 | 39.1 | | | G5 |
| FVH (80°-90°) | 1388.0 | 3.0 | | | G5 |
| BL (0°-30°) | 2649.8 | 5.8 | B4/5000 | | |
| BM (30°-60°) | 4761.3 | 10.3 | B3/5000 | | |
| BH (60°-80°) | 2127.2 | 4.6 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 354.8 | 0.8 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 33° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7201.5 | 7201.5 | 7201.5 | 7201.5 | 7201.5 | 7201.5 | 7201.5 | 7201.5 | 7201.5 | 7201.5 | 7201.5 |
| 2.5° | 6687.4 | 6662.0 | 6709.7 | 6716.1 | 6757.4 | 6773.4 | 6830.7 | 6919.8 | 6993.0 | 7077.3 | 7153.7 |
| 5° | 6081.1 | 6063.6 | 6130.4 | 6178.1 | 6268.9 | 6307.1 | 6442.3 | 6631.7 | 6800.4 | 6991.4 | 7164.9 |
| 7.5° | 5504.9 | 5495.4 | 5570.2 | 5678.4 | 5783.5 | 5836.0 | 6069.9 | 6345.2 | 6626.9 | 6935.7 | 7201.5 |
| 10° | 5019.5 | 5016.4 | 5088.0 | 5194.6 | 5349.0 | 5407.9 | 5710.2 | 6073.1 | 6467.8 | 6892.7 | 7263.5 |
| 12.5° | 4747.4 | 4758.5 | 4792.0 | 4881.1 | 5024.3 | 5083.2 | 5419.0 | 5845.5 | 6334.1 | 6878.4 | 7354.3 |
| 15° | 4814.2 | 4831.7 | 4774.5 | 4771.3 | 4873.1 | 4919.3 | 5234.4 | 5683.2 | 6238.6 | 6902.3 | 7486.3 |
| 17.5° | 5099.1 | 5102.3 | 4951.1 | 4855.6 | 4917.7 | 4941.6 | 5177.1 | 5590.9 | 6182.9 | 6956.4 | 7651.9 |
| 20° | 5500.2 | 5492.2 | 5224.8 | 5065.7 | 5099.1 | 5105.5 | 5258.3 | 5592.5 | 6178.1 | 7050.3 | 7866.7 |
| 22.5° | 6031.7 | 5972.8 | 5613.2 | 5396.7 | 5388.8 | 5379.2 | 5466.7 | 5710.2 | 6248.2 | 7203.1 | 8122.9 |
| 25° | 6725.6 | 6669.9 | 6175.0 | 5878.9 | 5815.3 | 5791.4 | 5804.1 | 5961.7 | 6386.6 | 7367.0 | 8409.4 |
| 27.5° | 7497.5 | 7400.4 | 6923.0 | 6504.4 | 6372.3 | 6338.9 | 6262.5 | 6316.6 | 6537.8 | 7524.5 | 8750.0 |
| 30° | 8143.6 | 8091.1 | 7674.1 | 7177.6 | 7021.6 | 6973.9 | 6773.4 | 6714.5 | 6755.9 | 7739.4 | 9179.7 |
| 32.5° | 8504.9 | 8469.9 | 8216.8 | 7815.8 | 7671.0 | 7604.1 | 7320.8 | 7203.1 | 7106.0 | 8078.4 | 9762.2 |
| 35° | 8942.6 | 8920.3 | 8767.5 | 8476.2 | 8261.4 | 8191.4 | 7971.7 | 7849.2 | 7599.3 | 8544.7 | 10514.9 |
| 37.5° | 9499.6 | 9475.7 | 9478.9 | 9243.3 | 8987.1 | 8921.9 | 8777.0 | 8648.1 | 8239.1 | 9157.4 | 11333.0 |
| 40° | 10129.8 | 10083.6 | 10066.1 | 10055.0 | 9892.7 | 9856.1 | 9779.7 | 9604.6 | 9041.2 | 9889.5 | 12139.8 |
| 42.5° | 11078.3 | 10914.4 | 10564.3 | 10696.4 | 10857.1 | 10838.0 | 10900.1 | 10648.6 | 9932.5 | 10755.3 | 12927.6 |
| 45° | 11993.4 | 11724.5 | 11119.7 | 11148.4 | 11500.1 | 11606.7 | 12071.4 | 11893.2 | 10898.5 | 11703.8 | 13742.5 |
| 47.5° | 12410.4 | 12206.7 | 11692.6 | 11694.2 | 12042.8 | 12264.0 | 13282.5 | 13155.2 | 11913.9 | 12781.2 | 14737.1 |
| 50° | 12876.7 | 12673.0 | 12211.5 | 12384.9 | 12688.9 | 12924.4 | 14452.3 | 14387.0 | 12879.9 | 13960.5 | 15929.2 |
| 52.5° | 13386.0 | 13040.6 | 12747.8 | 13058.1 | 13484.6 | 13758.4 | 15623.6 | 15445.4 | 13766.3 | 15147.8 | 17299.4 |
| 55° | 13392.3 | 13298.4 | 13521.3 | 13748.8 | 14387.0 | 14722.8 | 16850.6 | 16379.6 | 14488.9 | 16314.3 | 18415.1 |
| 57.5° | 14154.7 | 14001.9 | 14474.6 | 14579.6 | 15413.5 | 15792.3 | 18071.3 | 17192.8 | 15224.1 | 17208.7 | 19016.7 |
| 60° | 15163.7 | 15033.2 | 15419.9 | 15696.8 | 16683.5 | 17189.6 | 19374.7 | 18028.3 | 15801.9 | 17883.5 | 18988.0 |
| 62.5° | 16906.3 | 16758.3 | 16753.6 | 17141.9 | 18470.8 | 19059.6 | 20837.3 | 18848.0 | 16031.0 | 18017.2 | 18177.9 |
| 65° | 19457.5 | 19222.0 | 18777.9 | 18962.5 | 20939.2 | 21526.4 | 22471.8 | 19441.6 | 15728.6 | 17301.0 | 16091.5 |
| 67.5° | 21940.2 | 21932.3 | 21386.4 | 21765.1 | 24198.5 | 24669.6 | 24333.8 | 19500.5 | 14784.9 | 14807.2 | 12389.7 |
| 70° | 24415.0 | 24446.8 | 24354.5 | 25672.2 | 28602.2 | 29092.3 | 26316.8 | 18709.5 | 12663.4 | 10693.2 | 7422.7 |
| 72.5° | 26375.7 | 26367.7 | 26832.4 | 30230.3 | 34317.2 | 34207.4 | 27987.8 | 16312.7 | 9092.2 | 5772.3 | 3547.4 |
| 75° | 25105.7 | 24828.8 | 26213.3 | 32487.0 | 37648.2 | 37111.8 | 26566.7 | 11379.1 | 4718.8 | 2627.5 | 1909.8 |
| 77.5° | 16374.8 | 16637.4 | 18669.7 | 26837.2 | 32931.0 | 32278.5 | 19490.9 | 5309.2 | 2223.3 | 1723.6 | 1384.6 |
| 80° | 5929.9 | 6206.8 | 8742.0 | 15201.9 | 22688.2 | 22581.6 | 9598.2 | 2181.9 | 1504.0 | 1301.8 | 1009.0 |
| 82.5° | 2040.3 | 2142.1 | 3448.7 | 6751.1 | 12809.9 | 13287.3 | 3611.1 | 1239.8 | 1093.3 | 923.1 | 690.7 |
| 85° | 800.5 | 916.7 | 1577.2 | 3248.2 | 6461.4 | 6509.2 | 1462.6 | 741.6 | 760.7 | 604.8 | 378.8 |
| 87.5° | 304.0 | 369.2 | 754.4 | 1508.7 | 2950.6 | 2710.3 | 523.6 | 353.3 | 432.9 | 359.7 | 179.8 |
| 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-SA8B-750-U-T4FT

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7201.5 | 7201.5 | 7201.5 | 7201.5 | 7201.5 | 7201.5 | 7201.5 | 7201.5 | 7201.5 | 7201.5 | 7201.5 |
| 2.5° | 7212.6 | 7246.0 | 7316.1 | 7363.8 | 7414.7 | 7429.1 | 7435.4 | 7448.1 | 7460.9 | 7456.1 | 7457.7 |
| 5° | 7257.2 | 7322.4 | 7435.4 | 7483.2 | 7505.4 | 7480.0 | 7430.6 | 7390.9 | 7362.2 | 7346.3 | 7341.5 |
| 7.5° | 7330.4 | 7422.7 | 7543.6 | 7535.7 | 7484.8 | 7371.8 | 7244.4 | 7148.9 | 7069.4 | 7040.7 | 7024.8 |
| 10° | 7427.5 | 7535.7 | 7620.0 | 7529.3 | 7381.3 | 7185.6 | 6994.6 | 6846.6 | 6727.2 | 6681.1 | 6673.1 |
| 12.5° | 7551.6 | 7661.4 | 7677.3 | 7484.8 | 7239.7 | 6972.3 | 6712.9 | 6517.1 | 6338.9 | 6281.6 | 6268.9 |
| 15° | 7712.3 | 7815.8 | 7717.1 | 7406.8 | 7064.6 | 6704.9 | 6369.1 | 6103.3 | 5915.5 | 5845.5 | 5820.1 |
| 17.5° | 7881.0 | 7979.7 | 7725.1 | 7277.9 | 6835.4 | 6388.2 | 5966.5 | 5694.3 | 5479.5 | 5398.3 | 5388.8 |
| 20° | 8083.2 | 8127.7 | 7691.6 | 7093.2 | 6520.3 | 5977.6 | 5533.6 | 5277.4 | 5162.8 | 5105.5 | 5099.1 |
| 22.5° | 8333.0 | 8285.3 | 7615.3 | 6843.4 | 6120.9 | 5503.4 | 5142.1 | 5022.7 | 4994.1 | 4981.3 | 4986.1 |
| 25° | 8597.2 | 8450.8 | 7502.3 | 6517.1 | 5616.3 | 5029.1 | 4855.6 | 4889.0 | 4927.2 | 4922.5 | 4922.5 |
| 27.5° | 8888.4 | 8619.5 | 7328.8 | 6084.2 | 5057.7 | 4640.8 | 4661.5 | 4784.0 | 4841.3 | 4839.7 | 4838.1 |
| 30° | 9262.4 | 8810.5 | 7107.6 | 5563.8 | 4535.7 | 4367.0 | 4492.8 | 4642.4 | 4720.3 | 4717.2 | 4718.8 |
| 32.5° | 9722.4 | 9020.5 | 6806.8 | 4982.9 | 4158.5 | 4164.9 | 4309.7 | 4457.7 | 4548.5 | 4540.5 | 4542.1 |
| 35° | 10260.3 | 9256.1 | 6399.4 | 4410.0 | 3908.7 | 4004.2 | 4118.8 | 4222.2 | 4308.1 | 4297.0 | 4285.9 |
| 37.5° | 10846.0 | 9486.8 | 5858.3 | 3897.5 | 3705.0 | 3854.6 | 3950.1 | 3967.6 | 4007.4 | 3978.7 | 3958.0 |
| 40° | 11403.0 | 9663.5 | 5161.2 | 3477.4 | 3499.7 | 3727.3 | 3789.3 | 3719.3 | 3647.7 | 3638.1 | 3609.5 |
| 42.5° | 11888.4 | 9722.4 | 4456.2 | 3141.6 | 3283.2 | 3593.6 | 3631.8 | 3485.4 | 3356.4 | 3296.0 | 3270.5 |
| 45° | 12400.8 | 9743.1 | 3798.9 | 2859.9 | 3074.7 | 3474.2 | 3515.6 | 3319.8 | 3138.4 | 3007.9 | 2964.9 |
| 47.5° | 13070.9 | 9892.7 | 3288.0 | 2651.4 | 2915.6 | 3394.6 | 3453.5 | 3187.7 | 2952.2 | 2766.0 | 2726.2 |
| 50° | 13947.8 | 10188.7 | 2872.6 | 2492.3 | 2812.2 | 3342.1 | 3409.0 | 3058.8 | 2799.4 | 2575.0 | 2535.2 |
| 52.5° | 14921.8 | 10460.8 | 2536.8 | 2363.4 | 2711.9 | 3249.8 | 3351.7 | 2966.5 | 2656.2 | 2398.4 | 2355.4 |
| 55° | 15602.9 | 10252.3 | 2266.3 | 2229.7 | 2581.4 | 3117.7 | 3272.1 | 2888.5 | 2450.9 | 2226.5 | 2188.3 |
| 57.5° | 15733.4 | 9539.4 | 2061.0 | 2091.2 | 2423.8 | 2952.2 | 3149.5 | 2715.1 | 2339.5 | 2151.7 | 2111.9 |
| 60° | 15376.9 | 8546.3 | 1908.2 | 1963.9 | 2255.1 | 2743.7 | 2920.4 | 2592.5 | 2232.9 | 2072.1 | 2038.7 |
| 62.5° | 14480.9 | 7529.3 | 1795.2 | 1849.3 | 2097.6 | 2532.1 | 2777.1 | 2463.6 | 2124.6 | 1981.4 | 1948.0 |
| 65° | 12671.4 | 6321.4 | 1687.0 | 1747.5 | 1951.2 | 2349.0 | 2648.2 | 2344.3 | 2018.0 | 1908.2 | 1876.4 |
| 67.5° | 9564.8 | 4734.7 | 1585.1 | 1639.2 | 1820.7 | 2189.9 | 2508.2 | 2226.5 | 1914.6 | 1844.5 | 1806.3 |
| 70° | 5632.3 | 2964.9 | 1468.9 | 1526.2 | 1683.8 | 2024.4 | 2358.6 | 2097.6 | 1785.6 | 1753.8 | 1704.5 |
| 72.5° | 2621.2 | 1784.1 | 1336.8 | 1392.5 | 1511.9 | 1803.2 | 2166.0 | 1928.9 | 1632.9 | 1562.8 | 1496.0 |
| 75° | 1564.4 | 1305.0 | 1180.9 | 1230.2 | 1314.6 | 1567.6 | 1924.1 | 1757.0 | 1488.0 | 1395.7 | 1325.7 |
| 77.5° | 1169.7 | 997.9 | 1009.0 | 1061.5 | 1130.0 | 1371.9 | 1704.5 | 1621.7 | 1376.6 | 1305.0 | 1257.3 |
| 80° | 841.9 | 757.5 | 822.8 | 880.1 | 951.7 | 1247.7 | 1632.9 | 1499.2 | 1244.5 | 1149.1 | 1104.5 |
| 82.5° | 561.8 | 544.3 | 619.1 | 678.0 | 748.0 | 1091.8 | 1534.2 | 1313.0 | 1063.1 | 942.2 | 843.5 |
| 85° | 310.3 | 327.8 | 417.0 | 442.4 | 502.9 | 768.7 | 1257.3 | 1055.2 | 800.5 | 644.6 | 615.9 |
| 87.5° | 128.9 | 151.2 | 224.4 | 216.4 | 267.4 | 458.3 | 827.6 | 636.6 | 509.3 | 380.4 | 296.0 |
| 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)