

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: P325002

Luminaire Tested: **GAN-SA8B-722-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P325002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-722-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27561 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

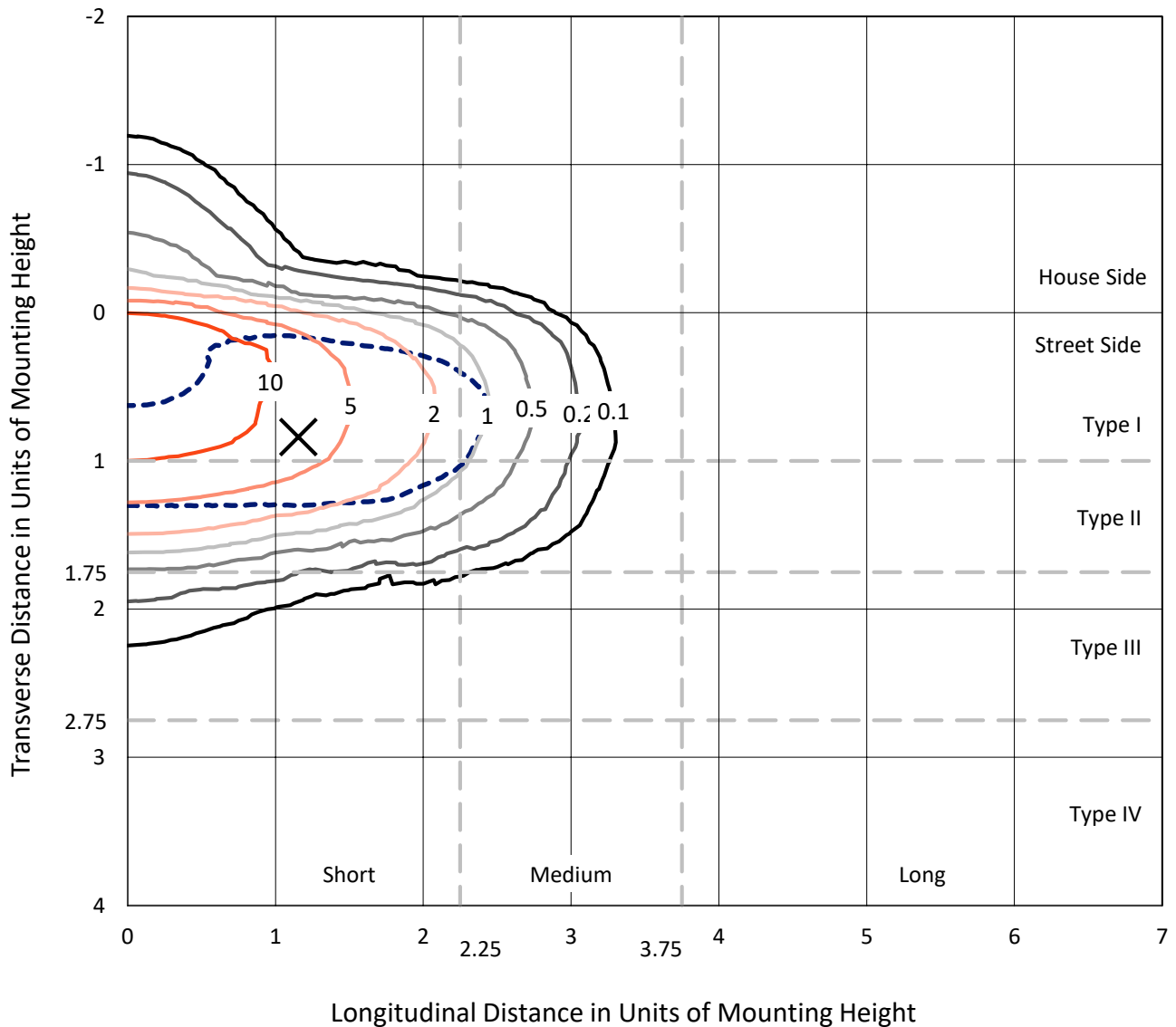
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

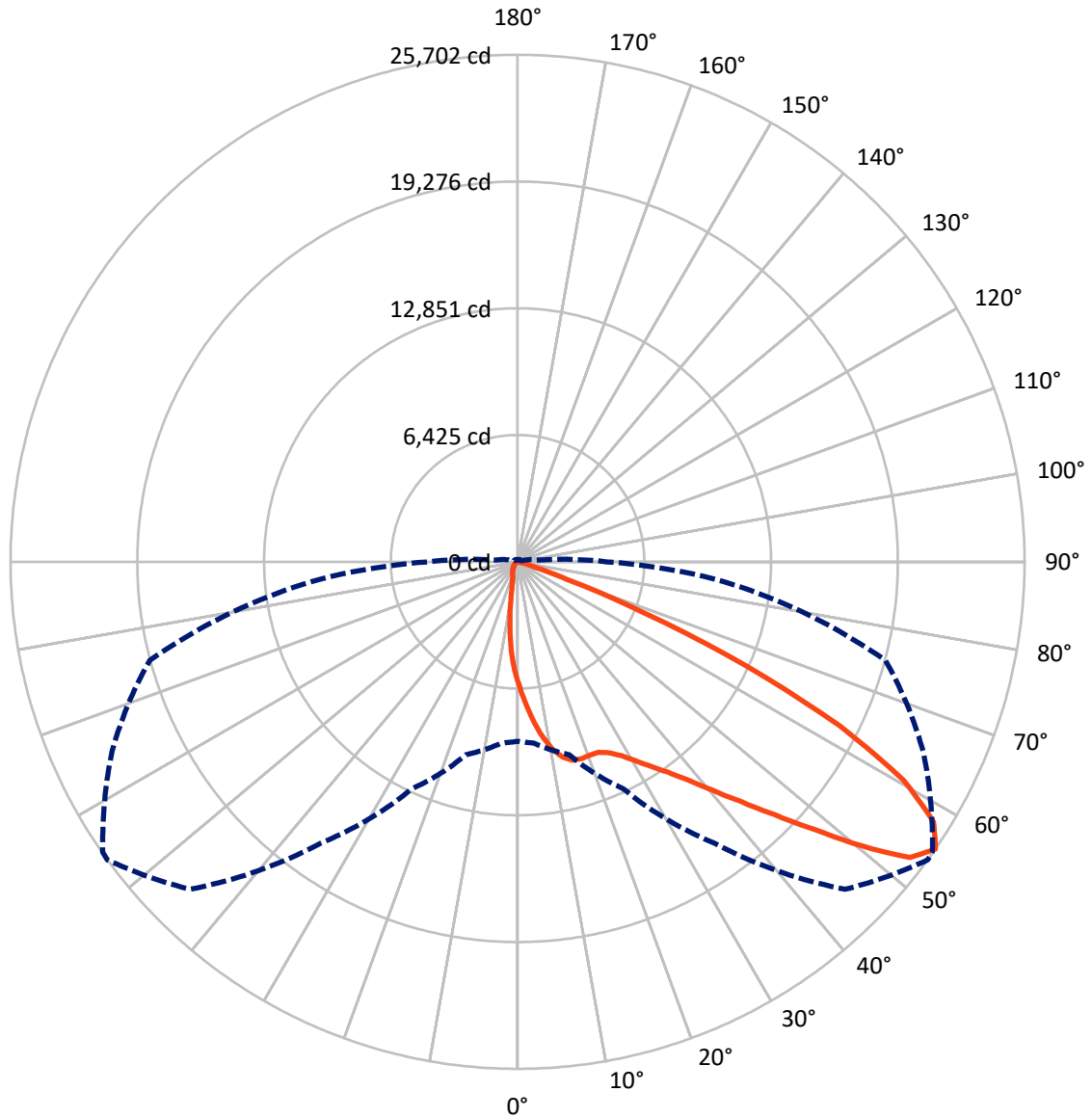
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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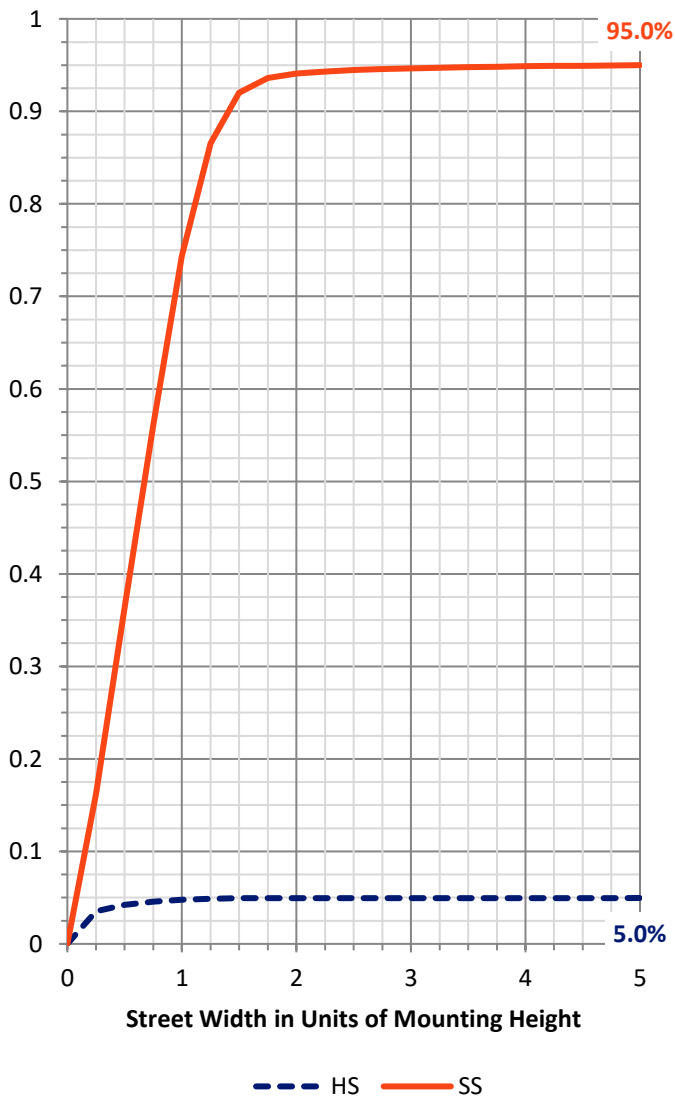
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1375.1 | 0.0 | 1375.1 |
| | % Fixture | 5.0 | 0.0 | 5.0 |
| Street Side | Lumens | 26185.9 | 0.0 | 26185.9 |
| | % Fixture | 95.0 | 0.0 | 95.0 |
| Total | Lumens | 27561.0 | 0.0 | 27561.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 568.4 | 2.1 |
| 10°-20° | 1558.9 | 5.7 |
| 20°-30° | 2661.6 | 9.7 |
| 30°-40° | 4271.4 | 15.5 |
| 40°-50° | 6825.7 | 24.8 |
| 50°-60° | 7313.9 | 26.5 |
| 60°-70° | 3755.2 | 13.6 |
| 70°-80° | 568.8 | 2.1 |
| 80°-90° | 37.0 | 0.1 |
| 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° | 27561.0 | 100.0 |
| 0°-180° | 27561.0 | 100.0 |

Coefficient of Utilization



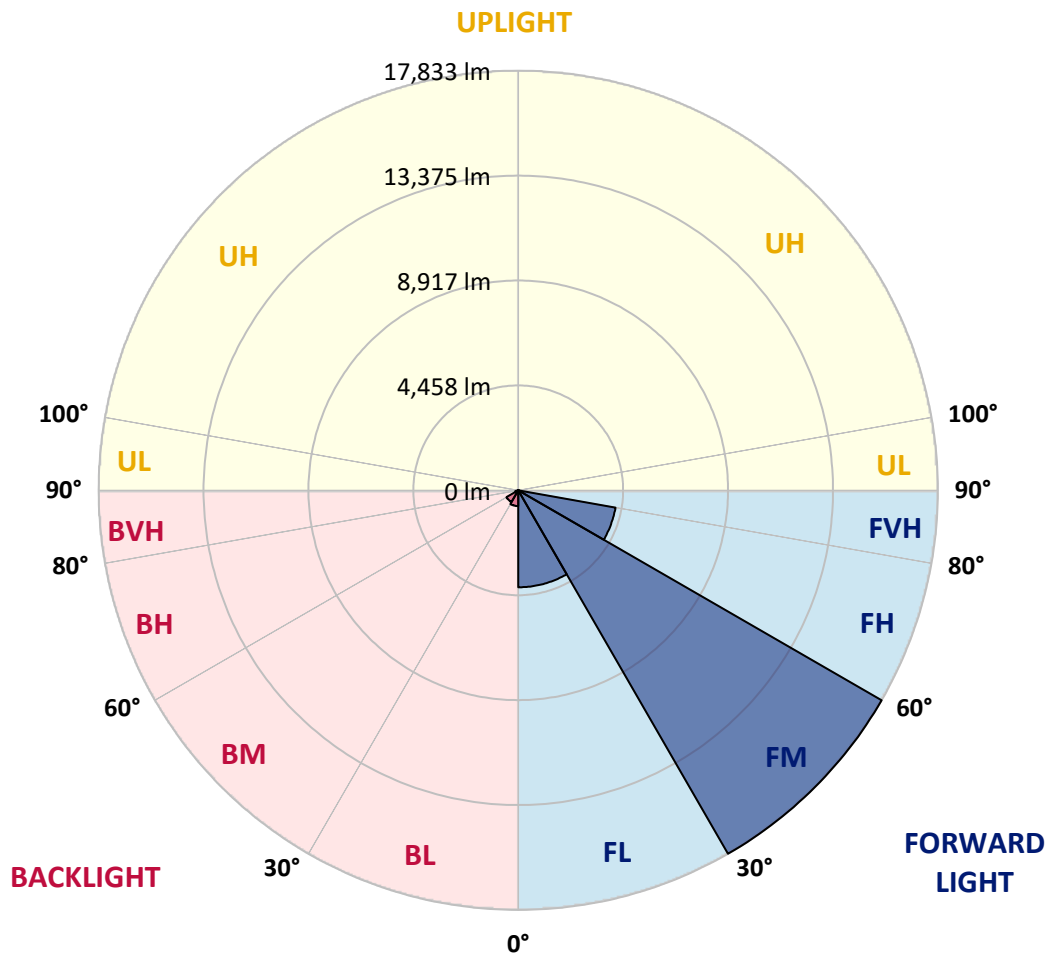
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4119.9 | 14.9 | | | |
| FM (30°-60°) | 17833.2 | 64.7 | | | |
| FH (60°-80°) | 4197.3 | 15.2 | | | G2/5000 |
| FVH (80°-90°) | 35.5 | 0.1 | | | G1/100 |
| BL (0°-30°) | 669.0 | 2.4 | B2/1000 | | |
| BM (30°-60°) | 577.8 | 2.1 | B1/1000 | | |
| BH (60°-80°) | 126.7 | 0.5 | 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: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6172.6 | 6172.6 | 6172.6 | 6172.6 | 6172.6 | 6172.6 | 6172.6 | 6172.6 | 6172.6 | 6172.6 | 6172.6 |
| 2.5° | 7746.0 | 7630.6 | 7634.2 | 7581.8 | 7390.2 | 7240.2 | 7084.3 | 7047.4 | 6804.6 | 6549.9 | 6304.7 |
| 5° | 9085.1 | 9000.6 | 8980.3 | 8879.2 | 8612.5 | 8330.5 | 8028.1 | 7957.9 | 7483.0 | 6961.7 | 6448.7 |
| 7.5° | 9773.0 | 9774.2 | 9757.5 | 9720.6 | 9554.0 | 9280.3 | 8911.3 | 8837.5 | 8191.2 | 7409.2 | 6598.7 |
| 10° | 9573.1 | 9618.3 | 9711.1 | 9833.7 | 9961.1 | 9926.6 | 9649.2 | 9582.6 | 8880.3 | 7882.9 | 6765.3 |
| 12.5° | 9106.5 | 9112.4 | 9216.0 | 9417.1 | 9783.7 | 10159.8 | 10164.6 | 10142.0 | 9538.5 | 8378.1 | 6948.6 |
| 15° | 8874.4 | 8897.0 | 8935.1 | 9064.8 | 9412.4 | 10014.6 | 10445.5 | 10477.6 | 10142.0 | 8904.1 | 7143.8 |
| 17.5° | 9026.7 | 9058.9 | 9026.7 | 9042.2 | 9243.4 | 9784.9 | 10494.3 | 10576.4 | 10669.3 | 9424.3 | 7328.3 |
| 20° | 9439.8 | 9469.5 | 9412.4 | 9349.3 | 9388.6 | 9718.3 | 10459.8 | 10570.5 | 11082.3 | 9886.1 | 7483.0 |
| 22.5° | 9996.8 | 10008.7 | 9921.8 | 9818.2 | 9789.7 | 9944.4 | 10488.3 | 10602.6 | 11413.2 | 10303.9 | 7580.6 |
| 25° | 10609.8 | 10620.5 | 10512.2 | 10393.1 | 10325.3 | 10388.4 | 10722.8 | 10808.5 | 11704.8 | 10702.6 | 7636.5 |
| 27.5° | 11277.5 | 11287.0 | 11151.3 | 11004.9 | 10926.4 | 10928.7 | 11109.7 | 11201.3 | 12015.4 | 11157.3 | 7681.8 |
| 30° | 11983.3 | 11978.5 | 11853.5 | 11650.0 | 11550.0 | 11547.7 | 11666.7 | 11759.5 | 12465.3 | 11740.5 | 7743.7 |
| 32.5° | 12776.0 | 12766.5 | 12589.1 | 12336.8 | 12223.7 | 12240.4 | 12346.3 | 12399.9 | 13023.5 | 12361.8 | 7854.4 |
| 35° | 13819.8 | 13792.4 | 13524.6 | 13211.6 | 13003.3 | 12997.4 | 13086.6 | 13129.5 | 13735.3 | 13114.0 | 8038.8 |
| 37.5° | 15174.3 | 15149.3 | 14786.3 | 14331.6 | 14038.8 | 13929.3 | 14035.2 | 14090.0 | 14750.6 | 14079.3 | 8335.2 |
| 40° | 16509.7 | 16484.8 | 16269.3 | 15852.7 | 15401.6 | 15138.6 | 15221.9 | 15280.2 | 16018.2 | 15250.5 | 8708.9 |
| 42.5° | 17431.0 | 17452.4 | 17527.4 | 17561.9 | 17139.4 | 16587.1 | 16625.2 | 16685.9 | 17350.1 | 16502.6 | 9136.2 |
| 45° | 17673.8 | 17720.2 | 18143.9 | 18975.9 | 19134.2 | 18703.4 | 18304.6 | 18337.9 | 18703.4 | 17754.7 | 9563.5 |
| 47.5° | 16944.2 | 17029.9 | 17847.6 | 19394.9 | 20735.1 | 21039.8 | 20285.2 | 20241.1 | 20001.9 | 18767.6 | 9867.0 |
| 50° | 15286.2 | 15364.7 | 16424.1 | 18712.9 | 21220.7 | 23270.3 | 22658.5 | 22528.8 | 21141.0 | 19373.5 | 9974.2 |
| 52.5° | 12886.7 | 12981.9 | 13842.4 | 16565.7 | 20305.4 | 24265.3 | 24905.7 | 24797.4 | 21976.5 | 19421.1 | 9992.0 |
| 55° | 9100.5 | 9216.0 | 10126.5 | 12696.2 | 17404.8 | 23473.8 | 25701.9 | 25669.8 | 22670.4 | 19294.9 | 10030.1 |
| 57.5° | 5114.4 | 5197.8 | 6179.7 | 8138.8 | 12747.4 | 20445.9 | 24870.0 | 25083.0 | 23089.4 | 19075.9 | 10087.2 |
| 60° | 2271.0 | 2293.6 | 2801.8 | 4051.6 | 7462.8 | 15625.4 | 22488.3 | 22847.7 | 22729.9 | 18783.1 | 10183.6 |
| 62.5° | 1259.3 | 1240.2 | 1240.2 | 1684.2 | 3243.4 | 9673.0 | 18337.9 | 18931.9 | 21195.7 | 18436.7 | 10188.4 |
| 65° | 986.7 | 968.9 | 917.7 | 924.8 | 1235.5 | 4293.2 | 12698.6 | 13754.4 | 18282.0 | 17421.5 | 9845.6 |
| 67.5° | 836.7 | 821.3 | 770.1 | 749.8 | 767.7 | 1416.4 | 6977.2 | 8073.4 | 13872.2 | 14782.7 | 8528.0 |
| 70° | 707.0 | 696.3 | 670.1 | 645.1 | 599.9 | 699.9 | 2669.7 | 3414.8 | 8548.3 | 9833.7 | 5821.4 |
| 72.5° | 568.9 | 564.2 | 573.7 | 552.3 | 497.5 | 466.6 | 912.9 | 1105.7 | 3839.7 | 4388.4 | 2398.3 |
| 75° | 490.4 | 488.0 | 492.8 | 471.3 | 409.4 | 324.9 | 464.2 | 507.0 | 1083.1 | 1073.6 | 485.6 |
| 77.5° | 319.0 | 322.6 | 408.3 | 398.7 | 352.3 | 216.6 | 240.4 | 259.5 | 328.5 | 246.4 | 147.6 |
| 80° | 203.5 | 201.1 | 207.1 | 330.9 | 316.6 | 165.4 | 120.2 | 126.2 | 158.3 | 121.4 | 71.4 |
| 82.5° | 123.8 | 121.4 | 135.7 | 154.7 | 159.5 | 115.5 | 73.8 | 75.0 | 98.8 | 78.6 | 38.1 |
| 85° | 10.7 | 14.3 | 82.1 | 76.2 | 54.8 | 35.7 | 35.7 | 38.1 | 52.4 | 46.4 | 21.4 |
| 87.5° | 0.0 | 0.0 | 14.3 | 21.4 | 11.9 | 13.1 | 13.1 | 14.3 | 20.2 | 20.2 | 10.7 |
| 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-SA8B-722-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6172.6 | 6172.6 | 6172.6 | 6172.6 | 6172.6 | 6172.6 | 6172.6 | 6172.6 | 6172.6 | 6172.6 | 6172.6 |
| 2.5° | 6177.3 | 6053.5 | 5803.6 | 5563.2 | 5359.6 | 5163.2 | 4939.5 | 4718.1 | 4614.5 | 4572.9 | 4530.0 |
| 5° | 6188.0 | 5933.3 | 5417.9 | 4899.0 | 4361.0 | 3876.6 | 3463.6 | 3039.9 | 2828.0 | 2735.2 | 2692.3 |
| 7.5° | 6202.3 | 5814.3 | 4981.1 | 4109.9 | 3243.4 | 2586.4 | 2012.7 | 1643.7 | 1484.2 | 1459.2 | 1397.3 |
| 10° | 6204.7 | 5670.3 | 4474.1 | 3238.6 | 2174.6 | 1559.2 | 1199.8 | 1009.3 | 939.1 | 927.2 | 907.0 |
| 12.5° | 6209.5 | 5500.1 | 3911.1 | 2398.3 | 1449.7 | 1042.6 | 867.7 | 804.6 | 785.6 | 784.4 | 784.4 |
| 15° | 6223.7 | 5321.5 | 3326.7 | 1728.2 | 1041.5 | 826.0 | 761.8 | 736.8 | 729.6 | 733.2 | 732.0 |
| 17.5° | 6223.7 | 5110.9 | 2753.0 | 1287.8 | 841.5 | 742.7 | 707.0 | 690.3 | 688.0 | 691.5 | 692.7 |
| 20° | 6178.5 | 4855.0 | 2226.9 | 1002.2 | 746.3 | 689.1 | 657.0 | 641.5 | 635.6 | 638.0 | 639.2 |
| 22.5° | 6070.2 | 4540.7 | 1798.4 | 829.6 | 683.2 | 640.3 | 605.8 | 582.0 | 572.5 | 573.7 | 573.7 |
| 25° | 5901.2 | 4168.2 | 1406.9 | 717.7 | 632.0 | 588.0 | 547.5 | 520.1 | 514.2 | 513.0 | 515.4 |
| 27.5° | 5684.6 | 3756.4 | 1120.0 | 632.0 | 571.3 | 529.7 | 489.2 | 466.6 | 461.8 | 463.0 | 464.2 |
| 30° | 5471.5 | 3329.1 | 883.2 | 559.4 | 503.5 | 464.2 | 433.2 | 422.5 | 422.5 | 426.1 | 427.3 |
| 32.5° | 5276.3 | 2918.5 | 698.7 | 496.3 | 442.8 | 407.1 | 389.2 | 388.0 | 394.0 | 396.3 | 397.5 |
| 35° | 5108.5 | 2538.8 | 578.5 | 447.5 | 395.2 | 364.2 | 358.3 | 363.0 | 370.2 | 374.9 | 376.1 |
| 37.5° | 4989.5 | 2199.6 | 505.8 | 407.1 | 358.3 | 333.3 | 332.1 | 341.6 | 351.1 | 361.8 | 364.2 |
| 40° | 4939.5 | 1912.7 | 455.9 | 371.4 | 328.5 | 309.5 | 305.9 | 319.0 | 336.8 | 352.3 | 354.7 |
| 42.5° | 4897.8 | 1678.2 | 413.0 | 336.8 | 304.7 | 277.3 | 276.1 | 292.8 | 314.2 | 329.7 | 333.3 |
| 45° | 4862.1 | 1490.2 | 373.7 | 299.9 | 273.8 | 238.0 | 241.6 | 263.0 | 279.7 | 296.4 | 299.9 |
| 47.5° | 4788.3 | 1335.4 | 330.9 | 260.7 | 226.1 | 203.5 | 210.7 | 229.7 | 242.8 | 267.8 | 271.4 |
| 50° | 4656.2 | 1209.3 | 286.8 | 213.1 | 184.5 | 176.2 | 186.9 | 200.0 | 216.6 | 238.0 | 240.4 |
| 52.5° | 4566.9 | 1114.1 | 248.8 | 178.5 | 152.4 | 154.7 | 165.4 | 170.2 | 179.7 | 188.1 | 185.7 |
| 55° | 4515.8 | 1061.7 | 217.8 | 154.7 | 129.7 | 136.9 | 139.3 | 133.3 | 128.5 | 120.2 | 116.6 |
| 57.5° | 4509.8 | 1014.1 | 194.0 | 134.5 | 114.3 | 117.8 | 109.5 | 89.3 | 72.6 | 63.1 | 60.7 |
| 60° | 4500.3 | 955.8 | 175.0 | 113.1 | 101.2 | 96.4 | 78.6 | 48.8 | 34.5 | 32.1 | 32.1 |
| 62.5° | 4396.7 | 865.3 | 160.7 | 95.2 | 85.7 | 72.6 | 45.2 | 22.6 | 19.0 | 20.2 | 20.2 |
| 65° | 4067.0 | 739.1 | 146.4 | 77.4 | 67.8 | 52.4 | 22.6 | 13.1 | 7.1 | 8.3 | 8.3 |
| 67.5° | 3457.6 | 589.2 | 130.9 | 59.5 | 51.2 | 33.3 | 13.1 | 6.0 | 0.0 | 0.0 | 0.0 |
| 70° | 2315.0 | 365.4 | 110.7 | 41.7 | 33.3 | 20.2 | 9.5 | 1.2 | 0.0 | 0.0 | 0.0 |
| 72.5° | 887.9 | 197.6 | 89.3 | 25.0 | 21.4 | 14.3 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 200.0 | 129.7 | 61.9 | 17.9 | 15.5 | 9.5 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 76.2 | 94.0 | 35.7 | 11.9 | 10.7 | 6.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 36.9 | 55.9 | 16.7 | 7.1 | 6.0 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 19.0 | 21.4 | 7.1 | 3.6 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 10.7 | 10.7 | 3.6 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 6.0 | 3.6 | 1.2 | 1.2 | 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)