

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: P321562

Luminaire Tested: **GAN-SA8B-730-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32078 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

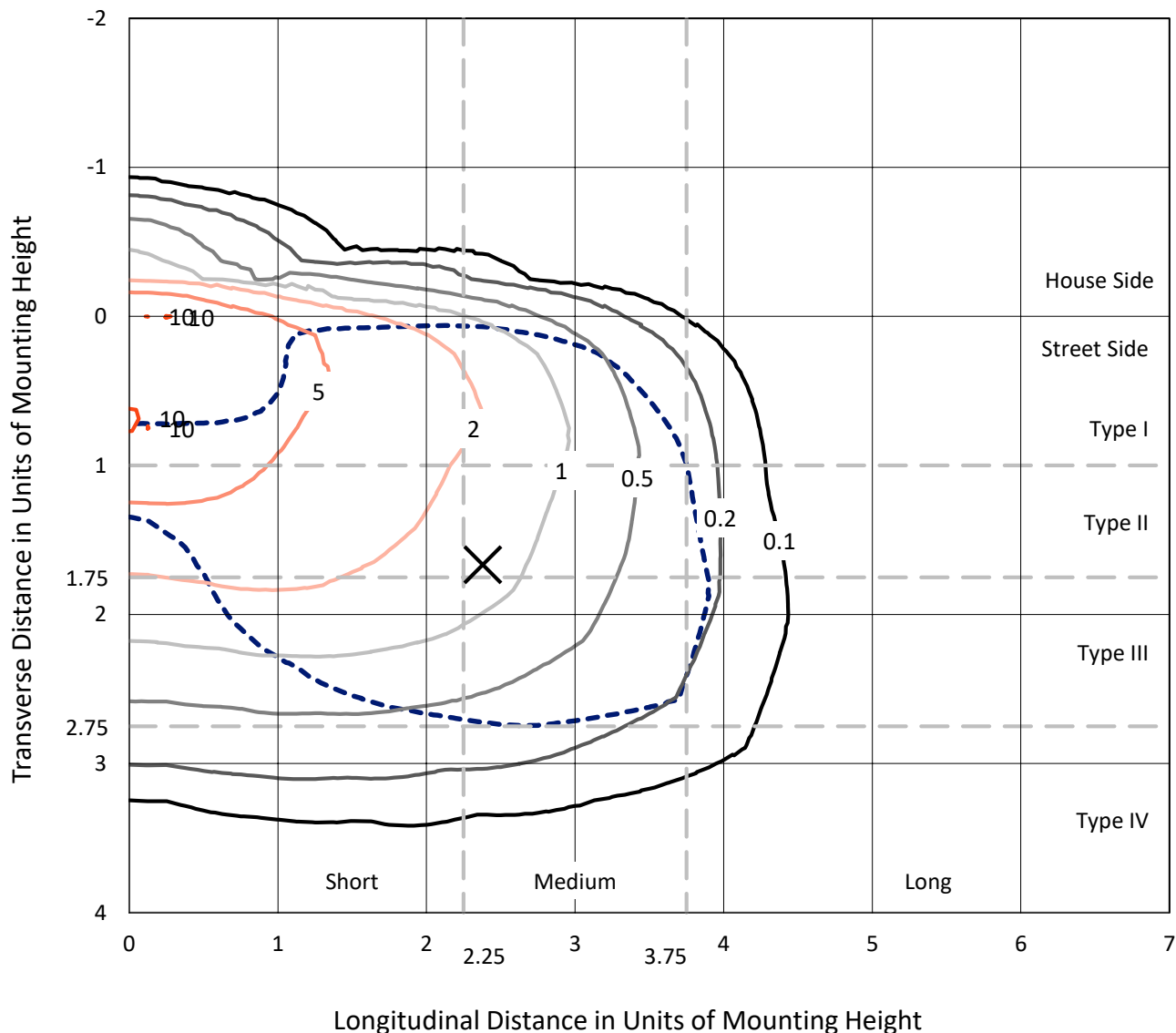
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

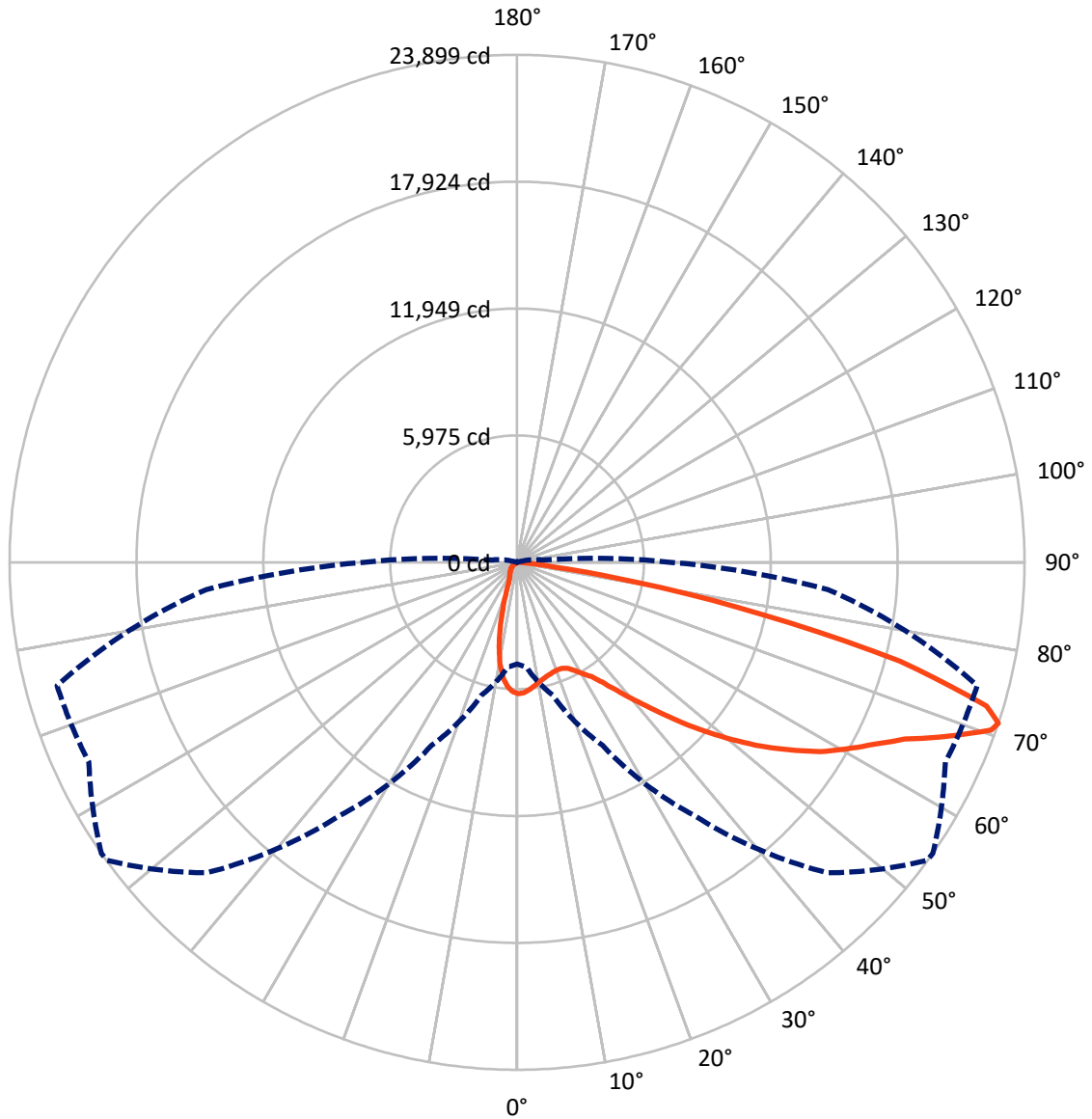
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2539.7 | 0.0 | 2539.7 |
| | % Fixture | 7.9 | 0.0 | 7.9 |
| Street Side | Lumens | 29538.3 | 0.0 | 29538.3 |
| | % Fixture | 92.1 | 0.0 | 92.1 |
| Total | Lumens | 32078.0 | 0.0 | 32078.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 527.5 | 1.6 |
| 10°-20° | 1190.8 | 3.7 |
| 20°-30° | 1913.7 | 6.0 |
| 30°-40° | 3251.4 | 10.1 |
| 40°-50° | 5046.6 | 15.7 |
| 50°-60° | 6785.0 | 21.2 |
| 60°-70° | 8300.3 | 25.9 |
| 70°-80° | 4853.0 | 15.1 |
| 80°-90° | 209.8 | 0.7 |
| 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° | 32078.0 | 100.0 |
| 0°-180° | 32078.0 | 100.0 |

Coefficient of Utilization

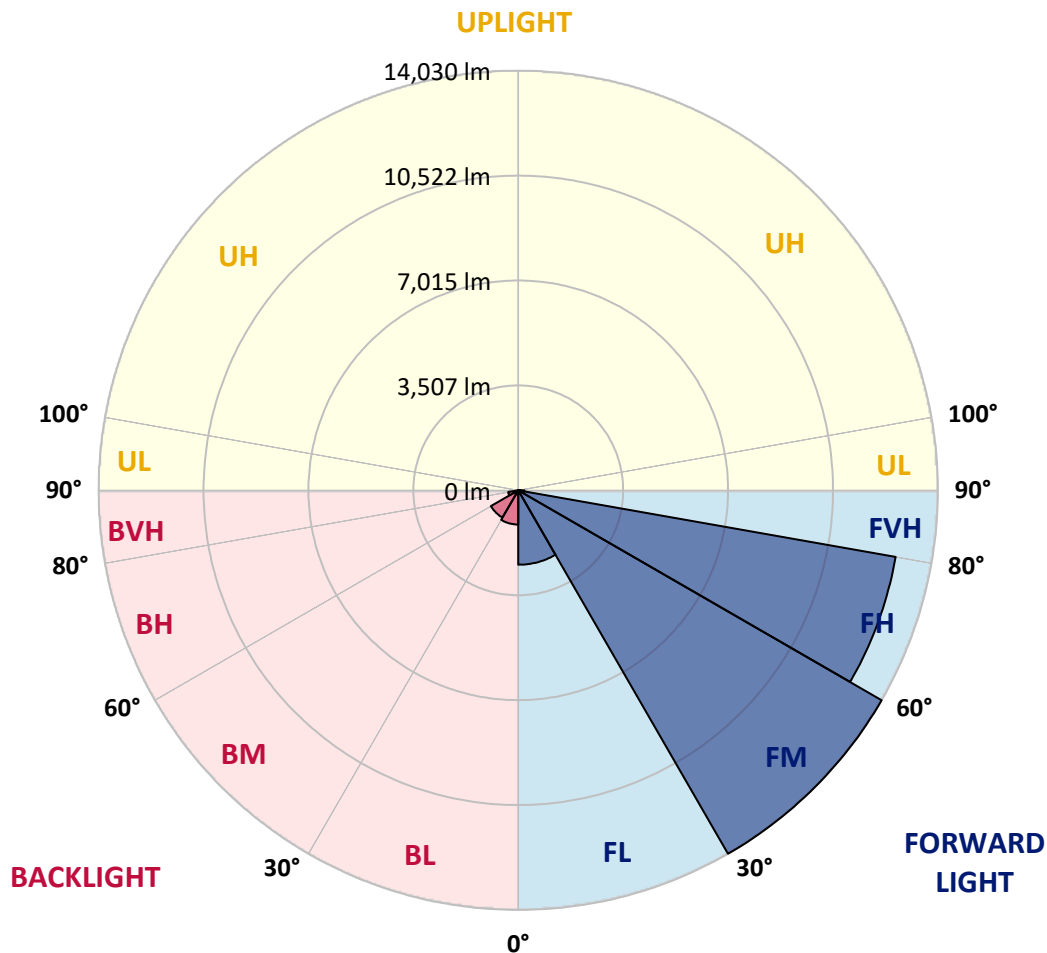


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2488.8 | 7.8 | | | |
| FM (30°-60°) | 14030.0 | 43.7 | | | |
| FH (60°-80°) | 12813.0 | 39.9 | | | G5 |
| FVH (80°-90°) | 206.5 | 0.6 | | | G2/225 |
| BL (0°-30°) | 1143.1 | 3.6 | B3/2500 | | |
| BM (30°-60°) | 1053.0 | 3.3 | B2/2500 | | |
| BH (60°-80°) | 340.3 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 3.3 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 54° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6186.4 | 6186.4 | 6186.4 | 6186.4 | 6186.4 | 6186.4 | 6186.4 | 6186.4 | 6186.4 | 6186.4 | 6186.4 |
| 2.5° | 6004.9 | 6012.1 | 6038.0 | 6049.5 | 6076.9 | 6123.0 | 6146.0 | 6147.5 | 6184.9 | 6199.3 | 6210.8 |
| 5° | 5580.0 | 5623.2 | 5666.4 | 5712.5 | 5796.0 | 5906.9 | 6016.4 | 6026.5 | 6147.5 | 6236.8 | 6284.3 |
| 7.5° | 5214.1 | 5253.0 | 5304.9 | 5378.3 | 5496.4 | 5670.7 | 5853.6 | 5875.2 | 6104.3 | 6307.3 | 6413.9 |
| 10° | 4838.2 | 4869.9 | 4944.8 | 5052.8 | 5215.6 | 5448.9 | 5695.2 | 5731.2 | 6065.4 | 6402.4 | 6589.7 |
| 12.5° | 4436.3 | 4455.0 | 4545.8 | 4701.3 | 4940.4 | 5237.2 | 5561.2 | 5608.8 | 6040.9 | 6511.9 | 6797.1 |
| 15° | 4131.0 | 4139.6 | 4226.0 | 4387.3 | 4661.0 | 5047.0 | 5457.5 | 5515.1 | 6046.6 | 6643.0 | 7023.2 |
| 17.5° | 4053.2 | 4057.5 | 4103.6 | 4214.5 | 4456.5 | 4877.1 | 5375.4 | 5446.0 | 6063.9 | 6771.1 | 7250.8 |
| 20° | 4368.6 | 4338.4 | 4290.8 | 4273.6 | 4377.3 | 4774.8 | 5326.5 | 5405.7 | 6087.0 | 6884.9 | 7455.3 |
| 22.5° | 5234.3 | 5145.0 | 4947.6 | 4684.1 | 4524.2 | 4782.0 | 5339.4 | 5418.6 | 6160.4 | 7024.6 | 7691.5 |
| 25° | 6519.1 | 6395.2 | 6059.6 | 5541.1 | 5042.7 | 4989.4 | 5447.5 | 5528.1 | 6303.0 | 7191.7 | 7917.7 |
| 27.5° | 7981.0 | 7858.6 | 7448.1 | 6707.8 | 5858.0 | 5399.9 | 5695.2 | 5770.1 | 6514.8 | 7340.1 | 8090.5 |
| 30° | 9381.1 | 9346.5 | 8862.6 | 8021.4 | 6883.5 | 6065.4 | 6015.0 | 6078.3 | 6671.8 | 7429.4 | 8227.4 |
| 32.5° | 10567.9 | 10513.2 | 10124.3 | 9306.2 | 8057.4 | 6864.8 | 6390.9 | 6409.6 | 6789.9 | 7544.6 | 8406.0 |
| 35° | 11668.4 | 11600.7 | 11259.3 | 10485.8 | 9261.5 | 7841.3 | 6969.9 | 6942.5 | 7047.7 | 7776.5 | 8665.2 |
| 37.5° | 12629.1 | 12691.0 | 12312.2 | 11576.2 | 10341.8 | 8856.8 | 7750.6 | 7668.5 | 7451.0 | 8153.9 | 9041.2 |
| 40° | 13432.8 | 13432.8 | 13235.5 | 12621.9 | 11508.5 | 9906.8 | 8633.5 | 8525.5 | 8057.4 | 8735.8 | 9517.9 |
| 42.5° | 13722.3 | 13784.3 | 13857.7 | 13510.6 | 12552.8 | 10998.6 | 9617.3 | 9505.0 | 8911.5 | 9561.1 | 10120.0 |
| 45° | 13739.6 | 13837.6 | 14213.5 | 14212.1 | 13496.2 | 12083.2 | 10726.4 | 10673.1 | 10006.2 | 10621.2 | 10866.1 |
| 47.5° | 13496.2 | 13618.6 | 14238.0 | 14589.4 | 14243.7 | 13092.9 | 11939.2 | 11872.9 | 11292.4 | 11920.4 | 11646.8 |
| 50° | 13120.3 | 13255.7 | 13975.8 | 14737.8 | 14752.2 | 13971.5 | 13216.8 | 13117.4 | 12708.3 | 13405.5 | 12453.4 |
| 52.5° | 12447.6 | 12709.8 | 13741.1 | 14772.4 | 15086.4 | 14730.6 | 14432.4 | 14389.2 | 14292.7 | 14835.7 | 13095.8 |
| 55° | 11008.7 | 11299.6 | 13152.0 | 14783.9 | 15396.0 | 15403.2 | 15571.8 | 15583.3 | 15777.7 | 16172.4 | 13574.0 |
| 57.5° | 10328.8 | 10493.0 | 12123.5 | 14838.6 | 15855.5 | 16166.6 | 16732.7 | 16822.0 | 17123.0 | 17441.4 | 14119.9 |
| 60° | 9901.1 | 10095.5 | 11616.5 | 14763.7 | 16577.1 | 17167.7 | 17808.6 | 17838.9 | 18161.5 | 18750.6 | 14858.8 |
| 62.5° | 9559.7 | 9751.3 | 11296.8 | 14475.6 | 17388.1 | 18371.8 | 18860.1 | 18863.0 | 19105.0 | 20310.6 | 15698.5 |
| 65° | 8717.1 | 8878.4 | 10650.0 | 14151.6 | 17923.9 | 19563.0 | 20081.5 | 20062.8 | 20260.1 | 21955.4 | 16673.6 |
| 67.5° | 7498.5 | 7622.4 | 9329.2 | 12922.9 | 17722.2 | 20646.2 | 21925.2 | 21863.3 | 21624.2 | 23377.1 | 17056.8 |
| 70° | 5797.5 | 5842.1 | 7353.1 | 10769.6 | 15832.5 | 21062.4 | 23706.9 | 23675.2 | 22461.0 | 23122.1 | 15652.4 |
| 71° | 4792.1 | 4939.0 | 6480.2 | 9505.0 | 14566.4 | 20677.8 | 23879.8 | 23898.5 | 22250.7 | 22427.9 | 14685.9 |
| 72.5° | 2782.8 | 2908.1 | 4697.0 | 7299.8 | 12367.0 | 19073.3 | 22983.9 | 23119.3 | 21268.4 | 20399.9 | 12544.1 |
| 75° | 596.3 | 638.1 | 1741.4 | 3533.2 | 6802.8 | 13368.0 | 18141.4 | 18623.9 | 17334.8 | 13877.9 | 7560.5 |
| 77.5° | 414.8 | 448.0 | 746.1 | 1603.1 | 2248.4 | 6605.5 | 11269.4 | 11813.9 | 10356.2 | 5215.6 | 2419.8 |
| 80° | 328.4 | 365.9 | 581.9 | 792.2 | 607.8 | 2130.3 | 5278.9 | 5611.7 | 3454.0 | 1163.8 | 407.6 |
| 82.5° | 182.9 | 217.5 | 453.7 | 427.8 | 233.3 | 404.7 | 1477.8 | 1670.8 | 691.4 | 234.8 | 96.5 |
| 85° | 53.3 | 64.8 | 292.4 | 311.1 | 99.4 | 77.8 | 252.1 | 312.6 | 131.1 | 61.9 | 43.2 |
| 87.5° | 0.0 | 0.0 | 141.2 | 119.6 | 28.8 | 11.5 | 23.0 | 25.9 | 25.9 | 25.9 | 28.8 |
| 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-730-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6186.4 | 6186.4 | 6186.4 | 6186.4 | 6186.4 | 6186.4 | 6186.4 | 6186.4 | 6186.4 | 6186.4 | 6186.4 |
| 2.5° | 6210.8 | 6220.9 | 6184.9 | 6137.4 | 6087.0 | 6025.0 | 5960.2 | 5909.8 | 5908.4 | 5883.9 | 5859.4 |
| 5° | 6287.2 | 6281.4 | 6182.0 | 6030.8 | 5852.2 | 5666.4 | 5489.2 | 5289.0 | 5222.8 | 5140.7 | 5113.3 |
| 7.5° | 6428.3 | 6388.0 | 6177.7 | 5846.4 | 5454.7 | 5065.8 | 4663.9 | 4259.2 | 4086.3 | 3930.7 | 3903.4 |
| 10° | 6605.5 | 6529.2 | 6150.3 | 5569.9 | 4851.1 | 4133.8 | 3527.4 | 2977.2 | 2735.2 | 2549.4 | 2540.8 |
| 12.5° | 6789.9 | 6673.2 | 6074.0 | 5152.2 | 4060.4 | 3052.1 | 2353.6 | 1812.0 | 1610.3 | 1480.7 | 1492.2 |
| 15° | 6982.9 | 6808.6 | 5909.8 | 4589.0 | 3160.2 | 2071.2 | 1446.1 | 1127.8 | 1047.1 | 1014.0 | 1022.7 |
| 17.5° | 7180.2 | 6902.2 | 5680.8 | 3910.6 | 2271.5 | 1336.7 | 1001.1 | 911.7 | 911.7 | 919.0 | 921.8 |
| 20° | 7351.6 | 6952.6 | 5343.7 | 3150.1 | 1539.7 | 973.7 | 875.7 | 862.8 | 870.0 | 881.5 | 882.9 |
| 22.5° | 7521.6 | 6955.5 | 4904.4 | 2379.5 | 1077.4 | 852.7 | 834.0 | 828.2 | 832.5 | 845.5 | 846.9 |
| 25° | 7659.8 | 6920.9 | 4354.2 | 1692.4 | 859.9 | 803.7 | 795.1 | 792.2 | 795.1 | 810.9 | 810.9 |
| 27.5° | 7716.0 | 6795.6 | 3683.0 | 1189.7 | 770.6 | 749.0 | 746.1 | 749.0 | 753.3 | 764.8 | 766.3 |
| 30° | 7721.8 | 6576.7 | 2951.3 | 861.3 | 698.6 | 675.5 | 681.3 | 691.4 | 687.1 | 684.2 | 687.1 |
| 32.5° | 7736.2 | 6323.2 | 2238.3 | 708.7 | 638.1 | 602.1 | 594.9 | 594.9 | 577.6 | 567.5 | 561.7 |
| 35° | 7783.7 | 6025.0 | 1623.3 | 636.6 | 576.1 | 534.4 | 507.0 | 475.3 | 442.2 | 424.9 | 420.6 |
| 37.5° | 7858.6 | 5712.5 | 1162.4 | 589.1 | 521.4 | 473.9 | 422.0 | 365.9 | 318.3 | 305.4 | 305.4 |
| 40° | 7995.5 | 5389.8 | 859.9 | 551.7 | 478.2 | 419.1 | 341.4 | 267.9 | 224.7 | 217.5 | 217.5 |
| 42.5° | 8211.5 | 5049.9 | 685.6 | 518.5 | 440.8 | 363.0 | 260.7 | 194.4 | 162.8 | 158.4 | 157.0 |
| 45° | 8436.2 | 4675.4 | 599.2 | 486.8 | 400.4 | 298.2 | 193.0 | 144.0 | 125.3 | 121.0 | 121.0 |
| 47.5° | 8660.9 | 4276.4 | 557.4 | 456.6 | 361.5 | 231.9 | 144.0 | 113.8 | 105.1 | 105.1 | 106.6 |
| 50° | 8851.0 | 3860.2 | 527.2 | 423.5 | 311.1 | 175.7 | 113.8 | 96.5 | 93.6 | 99.4 | 100.8 |
| 52.5° | 8898.6 | 3451.1 | 489.7 | 381.7 | 249.2 | 134.0 | 93.6 | 85.0 | 85.0 | 85.0 | 85.0 |
| 55° | 8869.8 | 3134.2 | 440.8 | 329.8 | 184.4 | 106.6 | 80.7 | 74.9 | 73.5 | 73.5 | 73.5 |
| 57.5° | 8967.7 | 2947.0 | 352.9 | 256.4 | 132.5 | 86.4 | 70.6 | 66.3 | 63.4 | 61.9 | 61.9 |
| 60° | 9165.0 | 2824.6 | 252.1 | 184.4 | 99.4 | 72.0 | 60.5 | 56.2 | 51.9 | 49.0 | 49.0 |
| 62.5° | 9427.2 | 2718.0 | 187.2 | 136.8 | 76.3 | 57.6 | 50.4 | 46.1 | 40.3 | 37.4 | 37.4 |
| 65° | 9628.8 | 2527.8 | 142.6 | 102.3 | 57.6 | 46.1 | 38.9 | 37.4 | 28.8 | 25.9 | 24.5 |
| 67.5° | 9320.6 | 2110.1 | 115.2 | 74.9 | 43.2 | 36.0 | 30.2 | 28.8 | 17.3 | 14.4 | 14.4 |
| 70° | 7994.0 | 1469.2 | 92.2 | 54.7 | 31.7 | 28.8 | 24.5 | 18.7 | 13.0 | 11.5 | 11.5 |
| 71° | 7249.3 | 1227.2 | 83.5 | 46.1 | 27.4 | 27.4 | 23.0 | 15.8 | 11.5 | 10.1 | 10.1 |
| 72.5° | 6022.2 | 871.4 | 70.6 | 36.0 | 24.5 | 28.8 | 24.5 | 14.4 | 11.5 | 10.1 | 8.6 |
| 75° | 3495.8 | 364.4 | 49.0 | 24.5 | 18.7 | 34.6 | 31.7 | 13.0 | 8.6 | 7.2 | 7.2 |
| 77.5° | 1051.5 | 134.0 | 27.4 | 15.8 | 14.4 | 30.2 | 36.0 | 11.5 | 4.3 | 1.4 | 1.4 |
| 80° | 191.6 | 57.6 | 17.3 | 10.1 | 10.1 | 18.7 | 27.4 | 5.8 | 0.0 | 0.0 | 0.0 |
| 82.5° | 67.7 | 28.8 | 10.1 | 5.8 | 4.3 | 8.6 | 13.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 38.9 | 20.2 | 5.8 | 2.9 | 0.0 | 1.4 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 25.9 | 5.8 | 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)