

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: P323818

Luminaire Tested: **GAN-SA4D-730-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23134 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

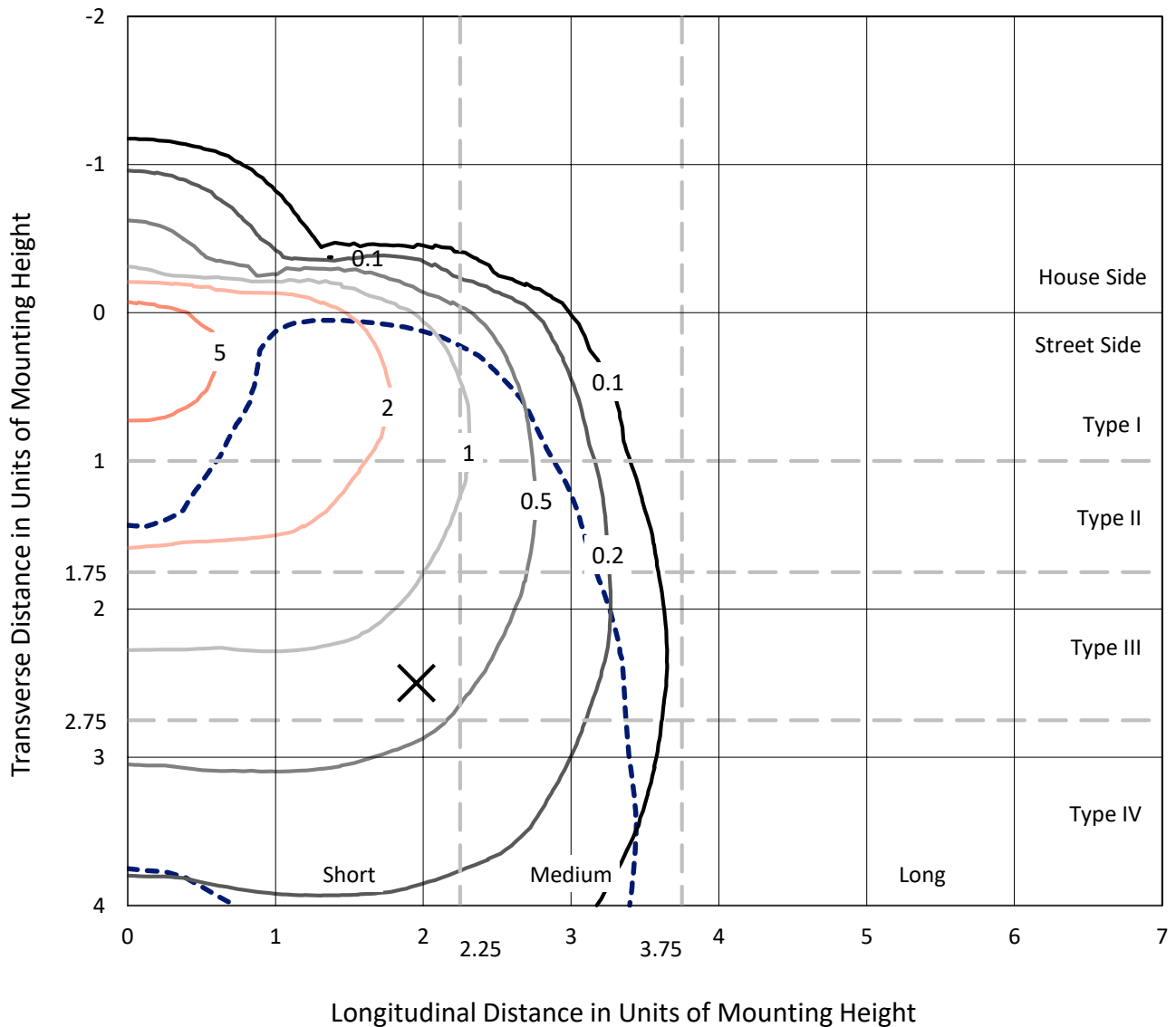
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323818
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Iso-Footcandle Lines of Horizontal Illumination

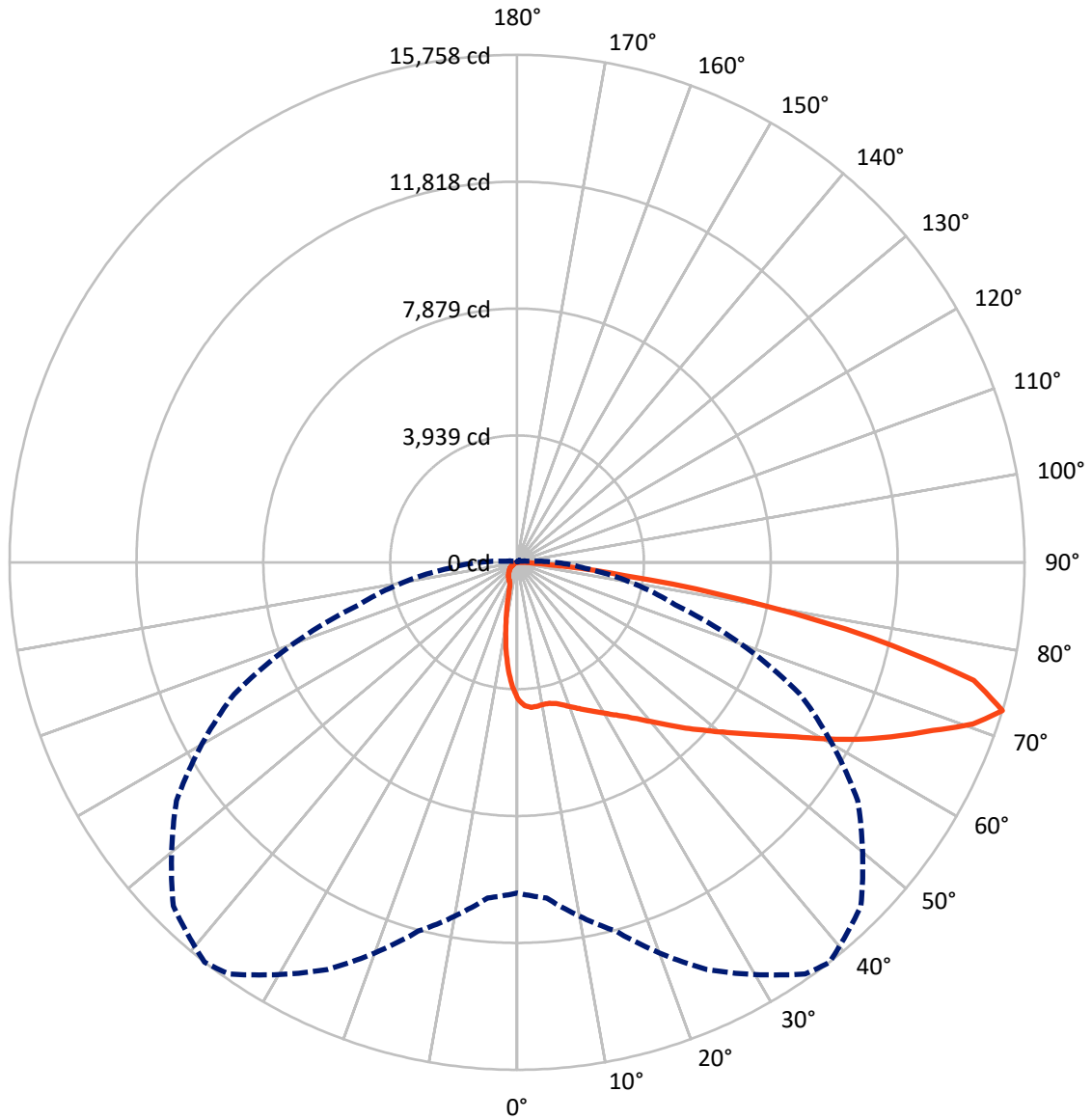
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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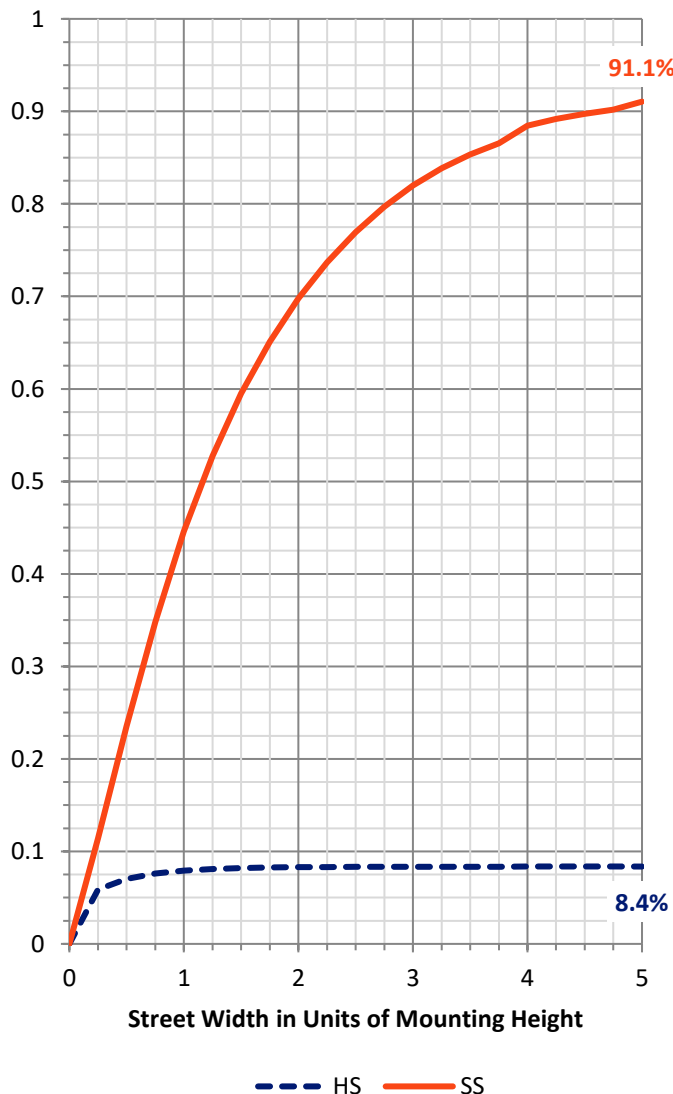
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1946.8 | 0.0 | 1946.8 |
| | % Fixture | 8.4 | 0.0 | 8.4 |
| Street Side | Lumens | 21187.2 | 0.0 | 21187.2 |
| | % Fixture | 91.6 | 0.0 | 91.6 |
| Total | Lumens | 23134.0 | 0.0 | 23134.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 362.5 | 1.6 |
| 10°-20° | 886.5 | 3.8 |
| 20°-30° | 1410.0 | 6.1 |
| 30°-40° | 2119.7 | 9.2 |
| 40°-50° | 3233.8 | 14.0 |
| 50°-60° | 4570.4 | 19.8 |
| 60°-70° | 5732.9 | 24.8 |
| 70°-80° | 4286.6 | 18.5 |
| 80°-90° | 531.5 | 2.3 |
| 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° | 23134.0 | 100.0 |
| 0°-180° | 23134.0 | 100.0 |

Coefficient of Utilization

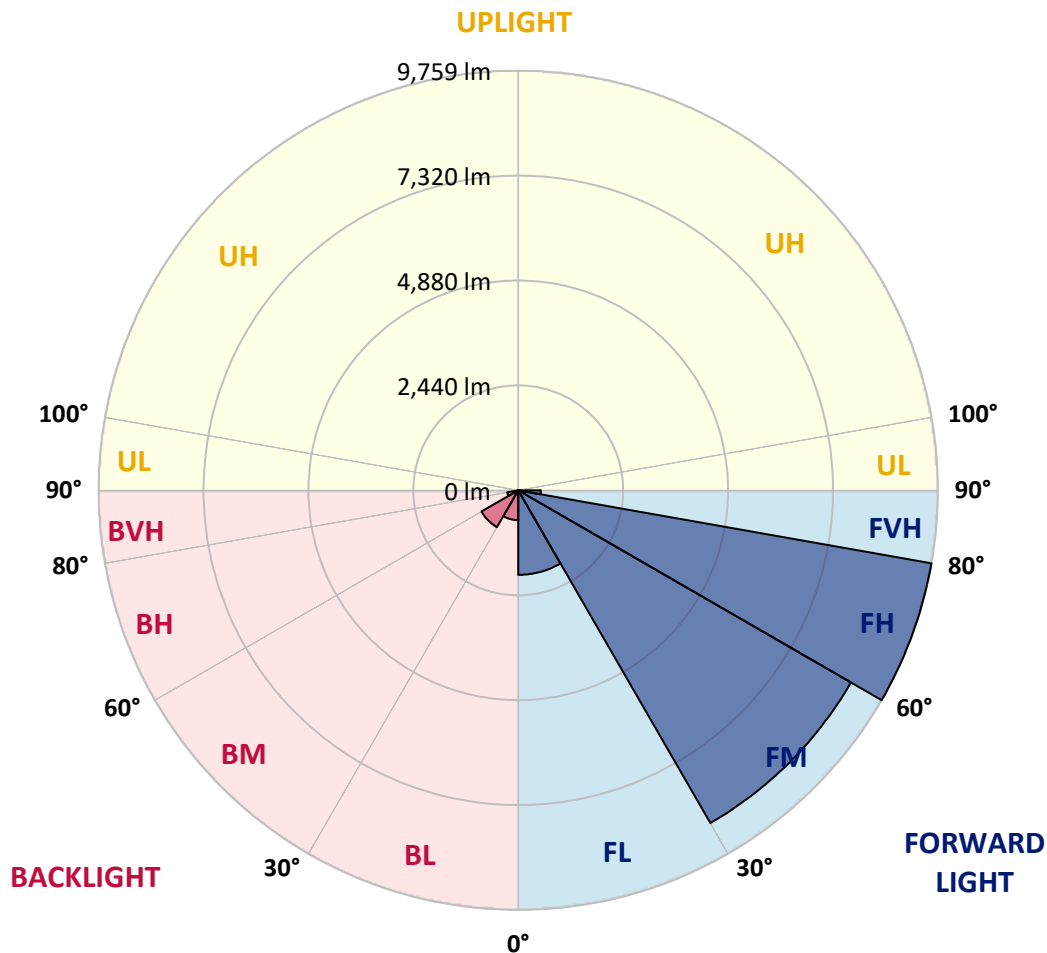


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1965.8 | 8.5 | | | |
| FM (30°-60°) | 8935.4 | 38.6 | | | |
| FH (60°-80°) | 9759.4 | 42.2 | | | G4/12000 |
| FVH (80°-90°) | 526.6 | 2.3 | | | G4/750 |
| BL (0°-30°) | 693.2 | 3.0 | B2/1000 | | |
| BM (30°-60°) | 988.6 | 4.3 | B1/1000 | | |
| BH (60°-80°) | 260.1 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 5.0 | 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





REPORT NUMBER: P323818

CATALOG NUMBER: GAN-SA4D-730-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 38° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 4254.3 | 4254.3 | 4254.3 | 4254.3 | 4254.3 | 4254.3 | 4254.3 | 4254.3 | 4254.3 | 4254.3 | 4254.3 |
| 2.5° | 4515.6 | 4516.6 | 4506.0 | 4488.7 | 4466.6 | 4455.1 | 4435.9 | 4405.1 | 4372.4 | 4313.8 | 4250.4 |
| 5° | 4607.8 | 4607.8 | 4594.4 | 4571.3 | 4535.8 | 4525.2 | 4488.7 | 4439.7 | 4372.4 | 4277.3 | 4170.7 |
| 7.5° | 4598.2 | 4600.1 | 4581.9 | 4557.9 | 4522.3 | 4512.7 | 4468.5 | 4413.8 | 4330.2 | 4214.9 | 4078.4 |
| 10° | 4548.3 | 4553.1 | 4538.7 | 4527.1 | 4494.5 | 4483.9 | 4442.6 | 4387.8 | 4304.2 | 4181.2 | 4024.6 |
| 12.5° | 4497.3 | 4502.1 | 4506.9 | 4517.5 | 4497.3 | 4493.5 | 4460.8 | 4414.7 | 4335.0 | 4207.2 | 4030.4 |
| 15° | 4464.7 | 4474.3 | 4508.9 | 4550.2 | 4555.0 | 4551.1 | 4530.0 | 4486.8 | 4406.1 | 4273.5 | 4071.7 |
| 17.5° | 4464.7 | 4480.0 | 4552.1 | 4630.9 | 4658.7 | 4661.6 | 4643.4 | 4582.8 | 4486.8 | 4344.6 | 4110.2 |
| 20° | 4502.1 | 4523.3 | 4635.7 | 4747.1 | 4793.3 | 4793.3 | 4757.7 | 4673.2 | 4560.8 | 4408.9 | 4136.1 |
| 22.5° | 4598.2 | 4626.1 | 4767.3 | 4896.1 | 4945.1 | 4934.5 | 4886.4 | 4763.5 | 4637.6 | 4482.0 | 4168.8 |
| 25° | 4787.5 | 4808.6 | 4955.6 | 5085.3 | 5115.1 | 5091.1 | 5030.6 | 4873.0 | 4735.6 | 4580.9 | 4228.3 |
| 27.5° | 5031.5 | 5034.4 | 5186.2 | 5295.7 | 5277.5 | 5261.1 | 5185.2 | 5010.4 | 4876.8 | 4722.2 | 4331.1 |
| 30° | 5299.6 | 5299.6 | 5433.1 | 5516.7 | 5461.0 | 5447.5 | 5371.6 | 5176.6 | 5057.5 | 4914.3 | 4477.2 |
| 32.5° | 5559.0 | 5570.5 | 5679.1 | 5731.9 | 5669.5 | 5656.0 | 5582.0 | 5387.0 | 5297.7 | 5207.3 | 4704.9 |
| 35° | 5809.7 | 5818.4 | 5921.2 | 5950.0 | 5890.4 | 5894.3 | 5841.4 | 5676.2 | 5642.6 | 5631.0 | 5047.9 |
| 37.5° | 6052.8 | 6054.7 | 6159.5 | 6177.7 | 6147.9 | 6180.6 | 6185.4 | 6039.4 | 6101.8 | 6195.0 | 5531.1 |
| 40° | 6274.8 | 6276.7 | 6380.4 | 6427.5 | 6478.4 | 6520.7 | 6558.2 | 6480.4 | 6686.9 | 6903.1 | 6106.6 |
| 42.5° | 6452.5 | 6472.7 | 6604.3 | 6693.6 | 6828.2 | 6908.9 | 7010.7 | 7006.9 | 7383.5 | 7708.2 | 6802.2 |
| 45° | 6609.1 | 6643.7 | 6827.2 | 6983.8 | 7214.4 | 7343.1 | 7502.6 | 7627.5 | 8167.5 | 8604.6 | 7506.5 |
| 47.5° | 6815.7 | 6848.3 | 7057.8 | 7314.3 | 7621.7 | 7790.8 | 8055.1 | 8325.0 | 9029.3 | 9484.7 | 8194.4 |
| 50° | 7106.8 | 7092.4 | 7298.9 | 7666.9 | 8061.8 | 8283.7 | 8660.3 | 9064.8 | 9884.3 | 10251.4 | 8598.8 |
| 52.5° | 7417.1 | 7411.3 | 7564.1 | 8050.2 | 8580.6 | 8840.0 | 9337.7 | 9829.6 | 10702.0 | 10779.8 | 8784.3 |
| 55° | 7801.4 | 7760.1 | 7888.8 | 8487.4 | 9196.4 | 9475.1 | 10061.1 | 10586.7 | 11353.4 | 11077.6 | 8877.5 |
| 57.5° | 8204.0 | 8135.8 | 8258.7 | 8974.5 | 9891.1 | 10220.6 | 10862.4 | 11324.5 | 11786.7 | 11281.3 | 8876.5 |
| 60° | 8620.0 | 8539.3 | 8685.3 | 9583.6 | 10753.8 | 11135.3 | 11730.9 | 11823.2 | 12191.1 | 11384.1 | 8811.2 |
| 62.5° | 8967.8 | 8919.7 | 9136.9 | 10235.0 | 11717.5 | 12092.2 | 12387.1 | 12276.7 | 12532.2 | 11463.8 | 8658.4 |
| 65° | 9335.8 | 9338.6 | 9689.3 | 10995.0 | 12741.7 | 12994.3 | 13019.3 | 12864.6 | 12817.6 | 11447.5 | 8141.5 |
| 67.5° | 9833.4 | 9879.5 | 10464.6 | 12026.9 | 13738.0 | 13933.0 | 13931.1 | 13501.6 | 13026.0 | 10798.0 | 6995.3 |
| 70° | 10359.9 | 10468.5 | 11358.2 | 13207.6 | 14825.6 | 15023.5 | 14921.6 | 13907.1 | 12265.1 | 8731.4 | 4950.8 |
| 72.5° | 10271.5 | 10459.8 | 11854.9 | 13952.2 | 15606.7 | 15757.5 | 15095.5 | 12910.8 | 9694.1 | 5074.8 | 2107.9 |
| 75° | 7924.4 | 8142.5 | 10870.1 | 13214.4 | 14787.1 | 14651.7 | 12970.3 | 10046.7 | 5297.7 | 1416.2 | 474.6 |
| 77.5° | 4186.1 | 4302.3 | 7180.8 | 10066.9 | 11530.1 | 11246.7 | 9136.9 | 5573.4 | 1615.0 | 350.7 | 213.3 |
| 80° | 2192.5 | 2219.4 | 3129.2 | 5711.7 | 7116.4 | 7118.3 | 5414.9 | 2448.0 | 665.8 | 179.7 | 143.2 |
| 82.5° | 1174.1 | 1197.1 | 1653.5 | 2639.2 | 3728.7 | 3380.0 | 2073.3 | 1347.0 | 387.2 | 101.8 | 137.4 |
| 85° | 282.5 | 287.3 | 937.7 | 1205.8 | 1466.1 | 1047.2 | 615.9 | 1130.8 | 104.7 | 59.6 | 111.4 |
| 87.5° | 108.6 | 110.5 | 347.8 | 521.7 | 373.7 | 242.1 | 288.2 | 421.8 | 13.5 | 23.1 | 17.3 |
| 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-SA4D-730-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4254.3 | 4254.3 | 4254.3 | 4254.3 | 4254.3 | 4254.3 | 4254.3 | 4254.3 | 4254.3 | 4254.3 | 4254.3 |
| 2.5° | 4212.0 | 4187.0 | 4125.5 | 4047.7 | 3978.5 | 3928.6 | 3853.6 | 3804.6 | 3772.0 | 3771.0 | 3758.5 |
| 5° | 4105.3 | 4054.4 | 3921.8 | 3764.3 | 3621.1 | 3492.4 | 3340.6 | 3220.5 | 3131.1 | 3116.7 | 3086.0 |
| 7.5° | 3991.0 | 3907.4 | 3703.7 | 3457.8 | 3217.6 | 2973.6 | 2690.1 | 2514.3 | 2363.5 | 2291.4 | 2283.7 |
| 10° | 3920.9 | 3803.7 | 3514.5 | 3159.0 | 2782.4 | 2385.6 | 2014.7 | 1758.2 | 1572.8 | 1519.9 | 1480.5 |
| 12.5° | 3906.5 | 3751.8 | 3368.4 | 2878.5 | 2340.4 | 1815.8 | 1405.6 | 1132.7 | 984.8 | 937.7 | 925.2 |
| 15° | 3920.9 | 3727.8 | 3245.5 | 2600.8 | 1892.7 | 1288.4 | 943.5 | 784.9 | 729.2 | 715.8 | 714.8 |
| 17.5° | 3929.5 | 3698.9 | 3106.2 | 2292.4 | 1458.4 | 920.4 | 722.5 | 676.4 | 667.7 | 666.8 | 668.7 |
| 20° | 3928.6 | 3654.7 | 2939.9 | 1948.4 | 1084.7 | 723.5 | 653.3 | 643.7 | 641.8 | 642.8 | 641.8 |
| 22.5° | 3921.8 | 3602.9 | 2757.4 | 1593.9 | 819.5 | 646.6 | 623.5 | 617.8 | 616.8 | 616.8 | 616.8 |
| 25° | 3934.3 | 3561.6 | 2556.6 | 1254.8 | 675.4 | 611.0 | 596.6 | 591.8 | 590.9 | 590.9 | 588.9 |
| 27.5° | 3979.5 | 3538.5 | 2336.6 | 965.6 | 610.1 | 579.3 | 567.8 | 566.9 | 564.0 | 563.0 | 564.9 |
| 30° | 4052.5 | 3538.5 | 2095.4 | 751.3 | 570.7 | 546.7 | 538.0 | 536.1 | 535.1 | 534.2 | 535.1 |
| 32.5° | 4181.2 | 3565.4 | 1832.2 | 624.5 | 533.2 | 510.2 | 504.4 | 507.3 | 504.4 | 504.4 | 504.4 |
| 35° | 4413.8 | 3646.1 | 1556.4 | 544.8 | 493.8 | 474.6 | 468.9 | 472.7 | 470.8 | 470.8 | 469.8 |
| 37.5° | 4752.9 | 3796.0 | 1278.8 | 496.7 | 459.2 | 439.1 | 431.4 | 437.1 | 435.2 | 435.2 | 434.3 |
| 40° | 5166.0 | 4014.1 | 1014.6 | 460.2 | 425.6 | 404.5 | 397.8 | 400.6 | 395.8 | 395.8 | 397.8 |
| 42.5° | 5676.2 | 4290.8 | 784.0 | 424.7 | 392.0 | 371.8 | 368.0 | 365.1 | 356.4 | 351.6 | 352.6 |
| 45° | 6243.0 | 4579.0 | 611.0 | 390.1 | 360.3 | 344.0 | 338.2 | 330.5 | 316.1 | 306.5 | 307.4 |
| 47.5° | 6749.4 | 4800.9 | 496.7 | 356.4 | 331.5 | 319.0 | 310.3 | 295.9 | 274.8 | 263.2 | 264.2 |
| 50° | 7015.5 | 4834.6 | 422.7 | 322.8 | 304.6 | 292.1 | 279.6 | 257.5 | 232.5 | 220.0 | 219.1 |
| 52.5° | 7083.7 | 4677.0 | 368.0 | 292.1 | 277.7 | 263.2 | 246.9 | 217.1 | 189.3 | 175.8 | 173.9 |
| 55° | 7108.7 | 4436.8 | 319.0 | 263.2 | 248.8 | 232.5 | 211.4 | 177.7 | 151.8 | 138.4 | 137.4 |
| 57.5° | 7026.1 | 4078.4 | 280.5 | 237.3 | 220.0 | 199.8 | 173.9 | 142.2 | 117.2 | 106.6 | 106.6 |
| 60° | 6842.6 | 3593.3 | 250.8 | 209.4 | 190.2 | 167.2 | 140.3 | 110.5 | 87.4 | 78.8 | 78.8 |
| 62.5° | 6476.5 | 2964.9 | 222.9 | 180.6 | 162.4 | 138.4 | 113.4 | 83.6 | 61.5 | 56.7 | 57.6 |
| 65° | 5785.7 | 2249.2 | 195.0 | 154.7 | 138.4 | 114.3 | 88.4 | 59.6 | 41.3 | 41.3 | 43.2 |
| 67.5° | 4718.3 | 1562.2 | 166.2 | 131.6 | 119.1 | 93.2 | 67.3 | 41.3 | 28.8 | 32.7 | 36.5 |
| 70° | 3123.4 | 876.2 | 142.2 | 108.6 | 101.8 | 74.0 | 50.0 | 27.9 | 23.1 | 30.7 | 37.5 |
| 72.5° | 1178.9 | 341.1 | 119.1 | 87.4 | 88.4 | 56.7 | 35.5 | 21.1 | 21.1 | 33.6 | 44.2 |
| 75° | 328.6 | 167.2 | 85.5 | 64.4 | 69.2 | 41.3 | 25.9 | 18.3 | 20.2 | 38.4 | 51.9 |
| 77.5° | 193.1 | 123.0 | 55.7 | 37.5 | 47.1 | 28.8 | 17.3 | 14.4 | 17.3 | 32.7 | 50.0 |
| 80° | 155.6 | 65.3 | 32.7 | 19.2 | 25.9 | 16.3 | 11.5 | 8.6 | 4.8 | 12.5 | 25.9 |
| 82.5° | 155.6 | 39.4 | 15.4 | 13.5 | 13.5 | 8.6 | 5.8 | 3.8 | 1.0 | 0.0 | 6.7 |
| 85° | 104.7 | 16.3 | 9.6 | 8.6 | 6.7 | 2.9 | 1.9 | 1.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 17.3 | 6.7 | 3.8 | 1.9 | 1.0 | 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)