

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: P649366

Luminaire Tested: **GLAN-SA4D-835-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4D-835-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23750 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

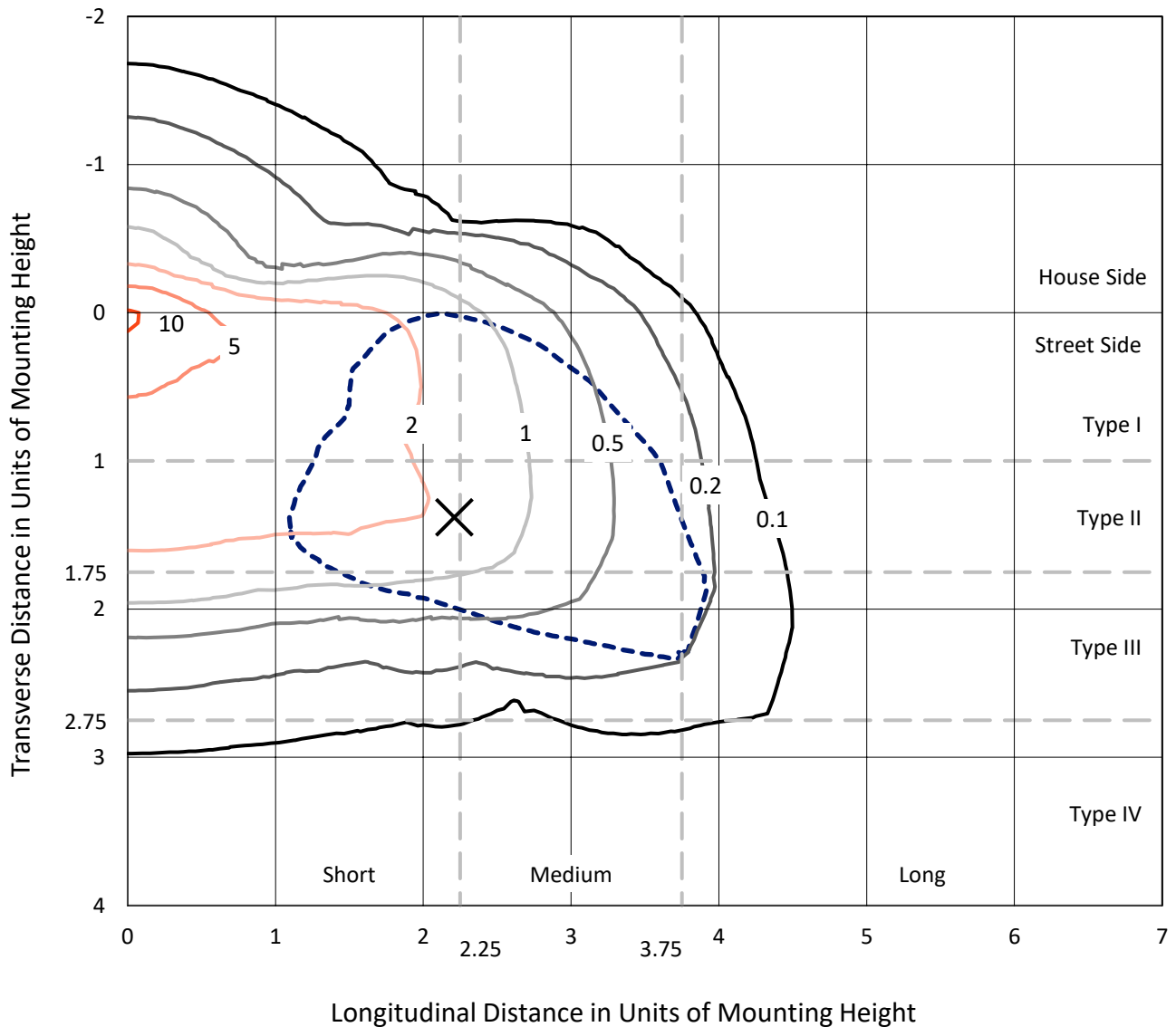
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

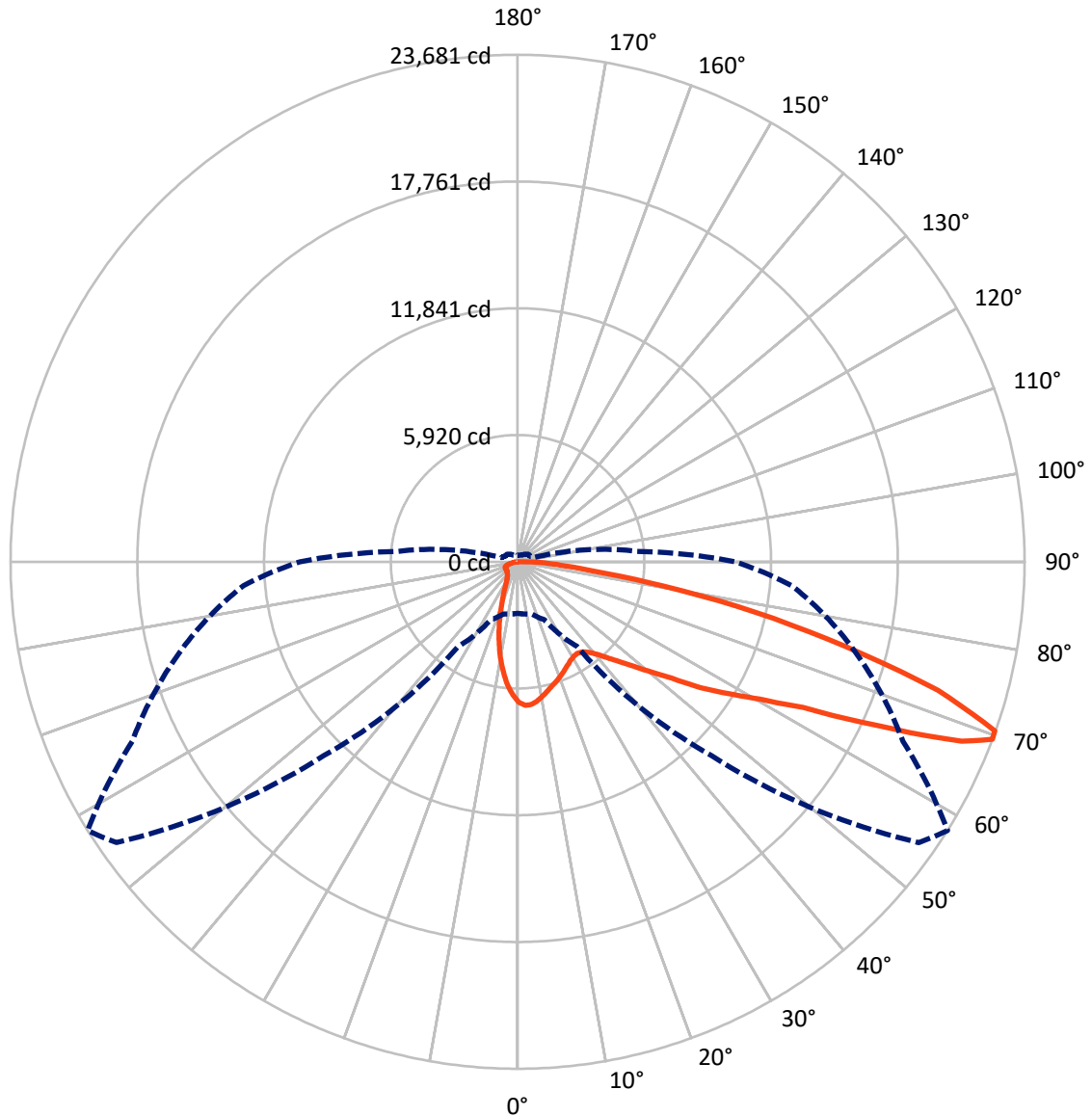
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3480.6 | 0.0 | 3480.6 |
| | % Fixture | 14.7 | 0.0 | 14.7 |
| Street Side | Lumens | 20269.4 | 0.0 | 20269.4 |
| | % Fixture | 85.3 | 0.0 | 85.3 |
| Total | Lumens | 23750.0 | 0.0 | 23750.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 557.4 | 2.3 |
| 10°-20° | 1223.9 | 5.2 |
| 20°-30° | 1581.3 | 6.7 |
| 30°-40° | 2053.8 | 8.6 |
| 40°-50° | 2985.9 | 12.6 |
| 50°-60° | 4764.5 | 20.1 |
| 60°-70° | 6364.8 | 26.8 |
| 70°-80° | 3669.0 | 15.4 |
| 80°-90° | 549.5 | 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° | 23750.0 | 100.0 |
| 0°-180° | 23750.0 | 100.0 |

Coefficient of Utilization



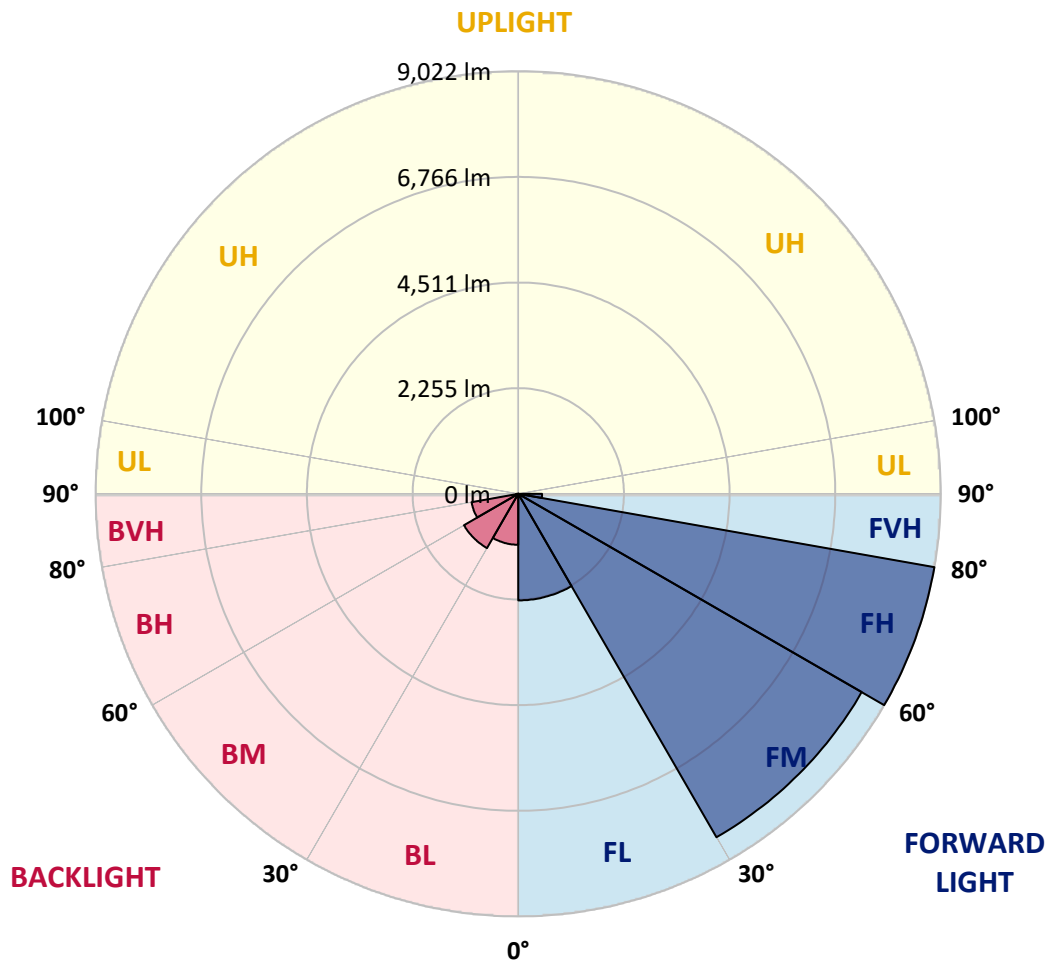
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 2274.6 | 9.6 | | | |
| FM (30°-60°) | 8465.6 | 35.6 | | | |
| FH (60°-80°) | 9021.7 | 38.0 | | | G4/12000 |
| FVH (80°-90°) | 507.4 | 2.1 | | | G4/750 |
| BL (0°-30°) | 1087.9 | 4.6 | B3/2500 | | |
| BM (30°-60°) | 1338.5 | 5.6 | B2/2500 | | |
| BH (60°-80°) | 1012.1 | 4.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 42.1 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 58° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6563.1 | 6563.1 | 6563.1 | 6563.1 | 6563.1 | 6563.1 | 6563.1 | 6563.1 | 6563.1 | 6563.1 | 6563.1 |
| 2.5° | 6806.8 | 6825.3 | 6820.1 | 6813.4 | 6802.9 | 6773.7 | 6726.0 | 6718.1 | 6687.6 | 6622.7 | 6541.9 |
| 5° | 6702.2 | 6718.1 | 6719.4 | 6728.6 | 6741.9 | 6736.6 | 6702.2 | 6698.2 | 6653.2 | 6565.8 | 6430.6 |
| 7.5° | 6343.2 | 6364.4 | 6410.8 | 6462.4 | 6508.8 | 6552.5 | 6563.1 | 6569.7 | 6541.9 | 6441.3 | 6261.1 |
| 10° | 5939.2 | 5960.4 | 5981.7 | 6058.5 | 6172.4 | 6281.0 | 6371.0 | 6382.9 | 6389.6 | 6296.9 | 6077.0 |
| 12.5° | 5491.6 | 5535.3 | 5580.3 | 5694.2 | 5846.5 | 6017.4 | 6176.3 | 6201.5 | 6246.5 | 6176.3 | 5918.1 |
| 15° | 5111.4 | 5156.4 | 5221.4 | 5323.3 | 5507.5 | 5753.8 | 5977.7 | 6018.7 | 6107.5 | 6071.7 | 5769.7 |
| 17.5° | 4847.8 | 4863.7 | 4908.8 | 5025.3 | 5224.0 | 5483.6 | 5782.9 | 5865.1 | 6006.8 | 5997.5 | 5642.5 |
| 20° | 4639.9 | 4659.7 | 4687.6 | 4759.1 | 4965.7 | 5239.9 | 5601.5 | 5707.4 | 5899.5 | 5931.3 | 5516.7 |
| 22.5° | 4552.4 | 4567.0 | 4563.0 | 4601.5 | 4741.8 | 5017.4 | 5417.3 | 5543.2 | 5804.1 | 5886.3 | 5400.1 |
| 25° | 4557.8 | 4571.0 | 4551.1 | 4541.9 | 4625.3 | 4821.3 | 5225.4 | 5385.6 | 5727.3 | 5855.8 | 5294.2 |
| 27.5° | 4646.5 | 4655.8 | 4618.7 | 4581.6 | 4588.2 | 4699.5 | 5066.4 | 5243.8 | 5662.4 | 5869.1 | 5205.5 |
| 30° | 4765.7 | 4782.9 | 4759.1 | 4714.1 | 4665.0 | 4670.4 | 4964.4 | 5139.2 | 5632.0 | 5915.4 | 5163.0 |
| 32.5° | 4919.4 | 4935.2 | 4924.7 | 4888.9 | 4825.3 | 4755.1 | 4939.2 | 5100.8 | 5634.6 | 6009.4 | 5153.8 |
| 35° | 5081.0 | 5112.8 | 5130.0 | 5127.3 | 5075.6 | 4953.8 | 5038.5 | 5172.3 | 5698.2 | 6167.1 | 5208.1 |
| 37.5° | 5263.7 | 5290.2 | 5364.4 | 5412.1 | 5364.4 | 5222.7 | 5262.4 | 5355.1 | 5838.6 | 6394.9 | 5327.3 |
| 40° | 5441.2 | 5480.9 | 5589.5 | 5737.9 | 5719.3 | 5594.8 | 5604.2 | 5665.1 | 6086.3 | 6734.0 | 5560.4 |
| 42.5° | 5626.6 | 5674.3 | 5863.7 | 6083.6 | 6127.3 | 6030.7 | 6055.8 | 6110.1 | 6438.6 | 7204.1 | 5960.4 |
| 45° | 5865.1 | 5922.0 | 6155.2 | 6429.3 | 6601.5 | 6541.9 | 6613.5 | 6639.9 | 6910.1 | 7816.1 | 6487.6 |
| 47.5° | 6172.4 | 6238.6 | 6526.0 | 6867.8 | 7111.4 | 7165.8 | 7290.3 | 7274.4 | 7494.2 | 8540.7 | 7171.0 |
| 50° | 6690.3 | 6727.4 | 6998.8 | 7347.2 | 7682.3 | 7927.4 | 8062.5 | 8087.6 | 8218.8 | 9245.3 | 7935.3 |
| 52.5° | 7306.2 | 7339.3 | 7535.3 | 7839.9 | 8259.9 | 8779.1 | 9112.9 | 9030.7 | 9062.5 | 10103.6 | 8829.4 |
| 55° | 7998.9 | 8054.6 | 8179.1 | 8381.7 | 8926.0 | 9690.3 | 10360.6 | 10380.4 | 10028.1 | 10924.8 | 9686.3 |
| 57.5° | 8535.3 | 8629.4 | 8842.7 | 9131.3 | 9821.5 | 10703.6 | 11604.3 | 11617.5 | 11167.2 | 11801.7 | 10632.1 |
| 60° | 8265.1 | 8376.4 | 8863.8 | 9567.2 | 10996.3 | 12471.9 | 13090.4 | 13014.9 | 12275.9 | 12800.3 | 11785.8 |
| 62.5° | 7099.5 | 7119.4 | 7828.0 | 8927.4 | 11358.0 | 14837.5 | 15302.4 | 14983.2 | 13755.4 | 14066.6 | 12957.9 |
| 65° | 4594.8 | 4724.6 | 5286.3 | 6826.7 | 10169.8 | 16150.2 | 19178.0 | 18440.3 | 15829.6 | 15503.7 | 13939.4 |
| 67.5° | 2900.8 | 2867.7 | 3100.8 | 3898.1 | 6994.9 | 14993.8 | 22485.4 | 22368.8 | 18542.2 | 16411.1 | 13705.0 |
| 69° | 2405.4 | 2442.5 | 2521.9 | 2988.2 | 4813.4 | 12801.7 | 22876.1 | 23681.4 | 19857.5 | 16339.6 | 12853.3 |
| 70° | 2181.5 | 2198.7 | 2282.2 | 2649.0 | 3714.0 | 10722.2 | 22235.1 | 23645.7 | 20374.1 | 16040.1 | 12236.1 |
| 72.5° | 1731.2 | 1729.9 | 1872.9 | 2204.1 | 2776.2 | 6120.7 | 18257.4 | 20529.1 | 19796.6 | 14646.8 | 10110.3 |
| 75° | 1315.3 | 1336.4 | 1494.1 | 1864.9 | 2557.7 | 3344.4 | 12740.7 | 15809.7 | 15811.0 | 11568.5 | 6308.8 |
| 77.5° | 948.4 | 961.6 | 1145.8 | 1565.6 | 2409.4 | 2711.4 | 8486.3 | 11339.4 | 10659.9 | 5300.8 | 1982.9 |
| 80° | 621.2 | 629.1 | 769.5 | 1239.8 | 2172.3 | 2557.7 | 5031.9 | 6940.6 | 5028.0 | 1406.7 | 655.7 |
| 82.5° | 340.4 | 380.1 | 470.2 | 802.7 | 1743.1 | 2363.0 | 3058.4 | 3512.7 | 1886.2 | 626.5 | 341.7 |
| 85° | 170.9 | 181.5 | 264.9 | 468.9 | 1139.1 | 1955.0 | 2129.8 | 2014.7 | 973.5 | 311.2 | 177.5 |
| 87.5° | 50.3 | 63.6 | 109.9 | 181.5 | 462.3 | 1018.6 | 1185.5 | 1063.6 | 374.8 | 112.6 | 37.1 |
| 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: GLAN-SA4D-835-U-SL3

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 6563.1 | 6563.1 | 6563.1 | 6563.1 | 6563.1 | 6563.1 | 6563.1 | 6563.1 | 6563.1 | 6563.1 | 6563.1 |
| 2.5° | 6508.8 | 6485.0 | 6379.0 | 6283.7 | 6196.2 | 6103.5 | 6025.3 | 5956.4 | 5963.1 | 5964.4 | 5894.2 |
| 5° | 6360.5 | 6306.1 | 6104.8 | 5916.7 | 5757.8 | 5556.5 | 5384.2 | 5273.0 | 5217.4 | 5143.2 | 5169.7 |
| 7.5° | 6159.1 | 6054.5 | 5775.0 | 5462.4 | 5169.7 | 4908.8 | 4625.3 | 4430.6 | 4306.1 | 4185.5 | 4201.4 |
| 10° | 5951.2 | 5782.9 | 5376.3 | 4963.0 | 4584.2 | 4167.0 | 3805.4 | 3495.5 | 3265.0 | 3178.9 | 3122.0 |
| 12.5° | 5737.9 | 5516.7 | 5000.2 | 4450.5 | 3927.3 | 3427.9 | 2915.3 | 2582.9 | 2328.6 | 2193.4 | 2210.6 |
| 15° | 5543.2 | 5274.3 | 4608.1 | 3937.9 | 3258.4 | 2663.7 | 2152.4 | 1835.8 | 1658.3 | 1621.2 | 1642.4 |
| 17.5° | 5363.1 | 5010.7 | 4241.2 | 3439.8 | 2646.5 | 1997.4 | 1617.3 | 1438.4 | 1367.0 | 1347.1 | 1345.7 |
| 20° | 5177.7 | 4786.9 | 3829.3 | 2907.4 | 2062.3 | 1548.4 | 1327.2 | 1243.7 | 1230.5 | 1238.5 | 1239.8 |
| 22.5° | 4989.5 | 4510.1 | 3405.4 | 2378.9 | 1642.4 | 1266.3 | 1160.3 | 1137.8 | 1148.3 | 1166.9 | 1169.6 |
| 25° | 4816.0 | 4266.3 | 2997.4 | 1915.3 | 1311.3 | 1112.6 | 1061.0 | 1061.0 | 1084.8 | 1112.6 | 1114.0 |
| 27.5° | 4672.9 | 4030.6 | 2590.8 | 1520.6 | 1098.1 | 1001.4 | 984.2 | 993.4 | 1026.5 | 1047.7 | 1049.1 |
| 30° | 4555.1 | 3810.7 | 2206.7 | 1218.6 | 965.6 | 912.6 | 908.7 | 924.6 | 948.4 | 968.3 | 969.6 |
| 32.5° | 4466.4 | 3617.3 | 1847.7 | 1023.9 | 874.2 | 845.1 | 843.8 | 855.7 | 868.9 | 874.2 | 879.5 |
| 35° | 4431.9 | 3457.0 | 1519.3 | 900.7 | 813.3 | 794.7 | 794.7 | 793.4 | 798.7 | 801.3 | 804.0 |
| 37.5° | 4459.7 | 3333.9 | 1264.9 | 821.2 | 768.2 | 755.0 | 747.1 | 739.1 | 736.4 | 736.4 | 737.7 |
| 40° | 4577.6 | 3268.9 | 1075.5 | 769.5 | 736.4 | 716.6 | 702.0 | 692.7 | 683.5 | 686.1 | 688.7 |
| 42.5° | 4828.0 | 3280.8 | 947.0 | 735.2 | 708.6 | 680.8 | 659.6 | 649.0 | 642.4 | 650.4 | 649.0 |
| 45° | 5226.6 | 3400.1 | 864.9 | 711.3 | 680.8 | 645.0 | 625.1 | 614.6 | 614.6 | 626.5 | 630.5 |
| 47.5° | 5784.3 | 3628.0 | 821.2 | 692.7 | 659.6 | 617.2 | 597.4 | 589.4 | 592.1 | 611.9 | 613.2 |
| 50° | 6465.1 | 4023.9 | 813.3 | 683.5 | 649.0 | 597.4 | 574.9 | 566.9 | 573.5 | 594.7 | 597.4 |
| 52.5° | 7216.1 | 4533.9 | 851.7 | 684.8 | 639.8 | 585.4 | 556.3 | 544.4 | 551.0 | 568.2 | 573.5 |
| 55° | 8106.2 | 5172.3 | 951.0 | 690.1 | 626.5 | 578.8 | 543.1 | 516.5 | 524.5 | 536.4 | 537.8 |
| 57.5° | 9014.8 | 5977.7 | 1125.9 | 691.4 | 615.9 | 566.9 | 520.5 | 486.1 | 486.1 | 494.1 | 498.1 |
| 60° | 10124.8 | 6854.5 | 1356.3 | 692.7 | 617.2 | 549.7 | 490.1 | 451.6 | 446.4 | 450.4 | 451.6 |
| 62.5° | 11226.8 | 7588.3 | 1394.8 | 688.7 | 630.5 | 532.4 | 457.0 | 417.3 | 407.9 | 406.6 | 403.9 |
| 65° | 11712.9 | 7451.9 | 1143.1 | 670.2 | 645.0 | 521.9 | 430.5 | 384.1 | 368.2 | 362.9 | 362.9 |
| 67.5° | 10920.8 | 6303.5 | 859.7 | 645.0 | 635.8 | 511.3 | 405.3 | 356.3 | 337.8 | 327.1 | 327.1 |
| 69° | 10176.4 | 5606.7 | 772.2 | 627.8 | 611.9 | 494.1 | 389.4 | 341.7 | 319.2 | 307.3 | 303.3 |
| 70° | 9601.6 | 5127.3 | 735.2 | 613.2 | 589.4 | 474.2 | 377.5 | 331.1 | 306.0 | 292.7 | 290.1 |
| 72.5° | 7662.4 | 4022.7 | 643.7 | 557.7 | 502.0 | 398.7 | 335.1 | 298.0 | 274.2 | 259.6 | 255.6 |
| 75° | 4416.0 | 2180.2 | 533.8 | 484.8 | 403.9 | 309.9 | 283.4 | 259.6 | 241.1 | 227.9 | 223.9 |
| 77.5° | 1359.0 | 842.4 | 386.8 | 382.8 | 296.7 | 239.8 | 226.5 | 217.2 | 204.0 | 189.4 | 186.7 |
| 80° | 572.2 | 429.2 | 262.2 | 258.3 | 197.4 | 166.9 | 162.9 | 161.6 | 156.3 | 144.4 | 140.4 |
| 82.5° | 313.9 | 242.4 | 182.8 | 158.9 | 119.2 | 96.7 | 100.7 | 102.0 | 98.0 | 86.1 | 78.1 |
| 85° | 153.6 | 132.5 | 88.7 | 71.5 | 54.3 | 34.5 | 33.1 | 39.7 | 37.1 | 26.5 | 29.1 |
| 87.5° | 30.5 | 37.1 | 23.8 | 10.6 | 5.3 | 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)