

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: P649867

Luminaire Tested: **GLAN-SA4A-835-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4A-835-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12210.1 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

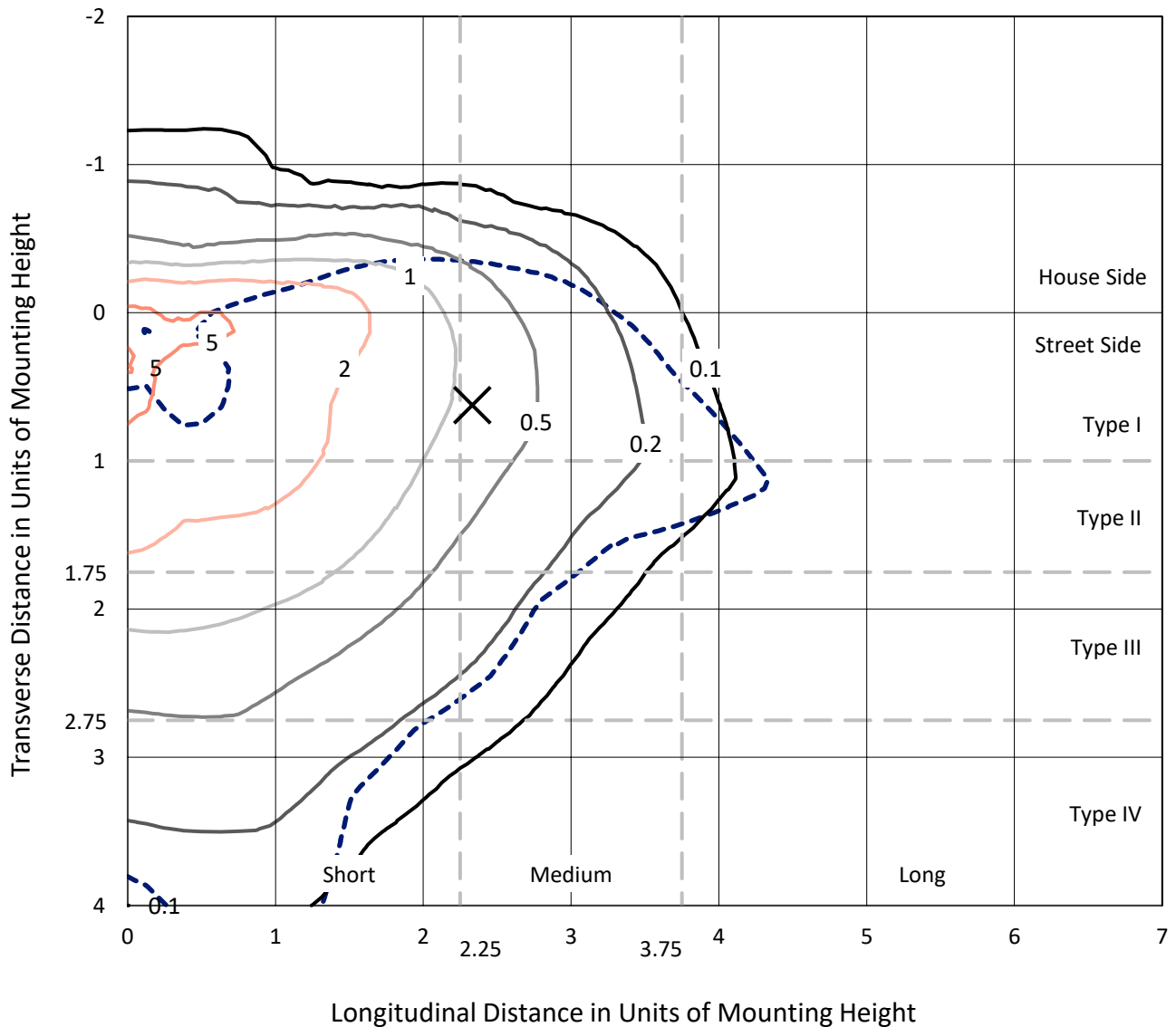
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P649867
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Iso-Footcandle Lines of Horizontal Illumination

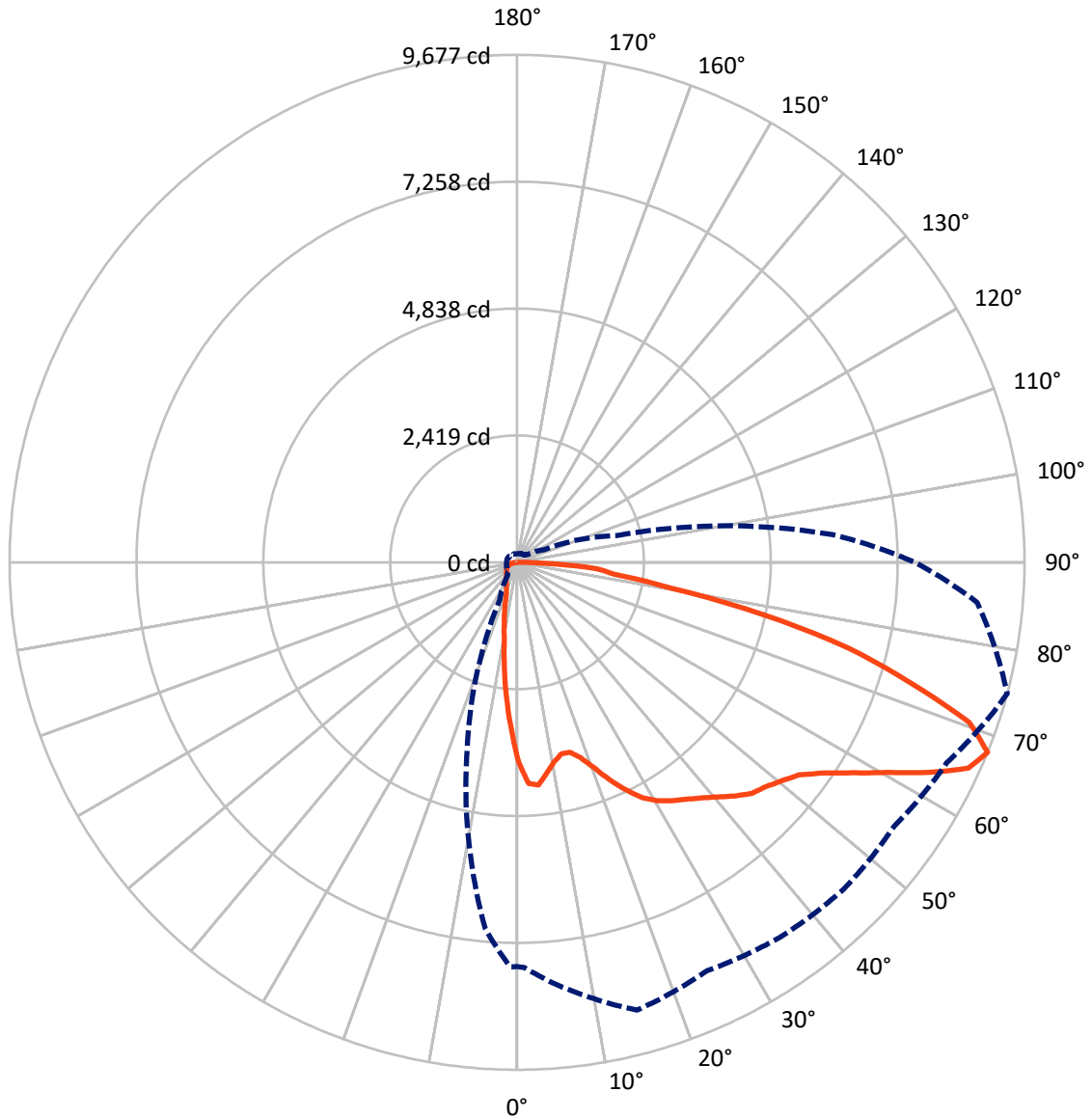
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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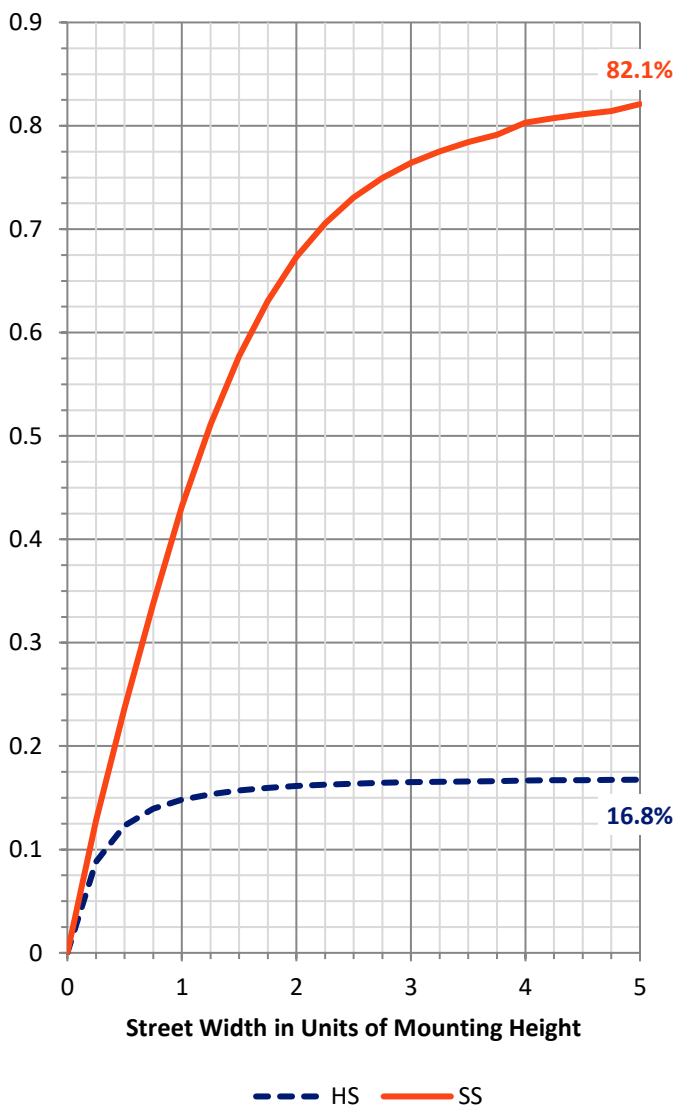
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2063.8 | 0.0 | 2063.8 |
| | % Fixture | 16.9 | 0.0 | 16.9 |
| Street Side | Lumens | 10146.3 | 0.0 | 10146.3 |
| | % Fixture | 83.1 | 0.0 | 83.1 |
| Total | Lumens | 12210.1 | 0.0 | 12210.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 289.3 | 2.4 |
| 10°-20° | 603.4 | 4.9 |
| 20°-30° | 868.3 | 7.1 |
| 30°-40° | 1250.6 | 10.2 |
| 40°-50° | 1756.8 | 14.4 |
| 50°-60° | 2450.1 | 20.1 |
| 60°-70° | 2913.0 | 23.9 |
| 70°-80° | 1715.6 | 14.1 |
| 80°-90° | 362.8 | 3.0 |
| 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° | 12210.1 | 100.0 |
| 0°-180° | 12210.1 | 100.0 |

Coefficient of Utilization



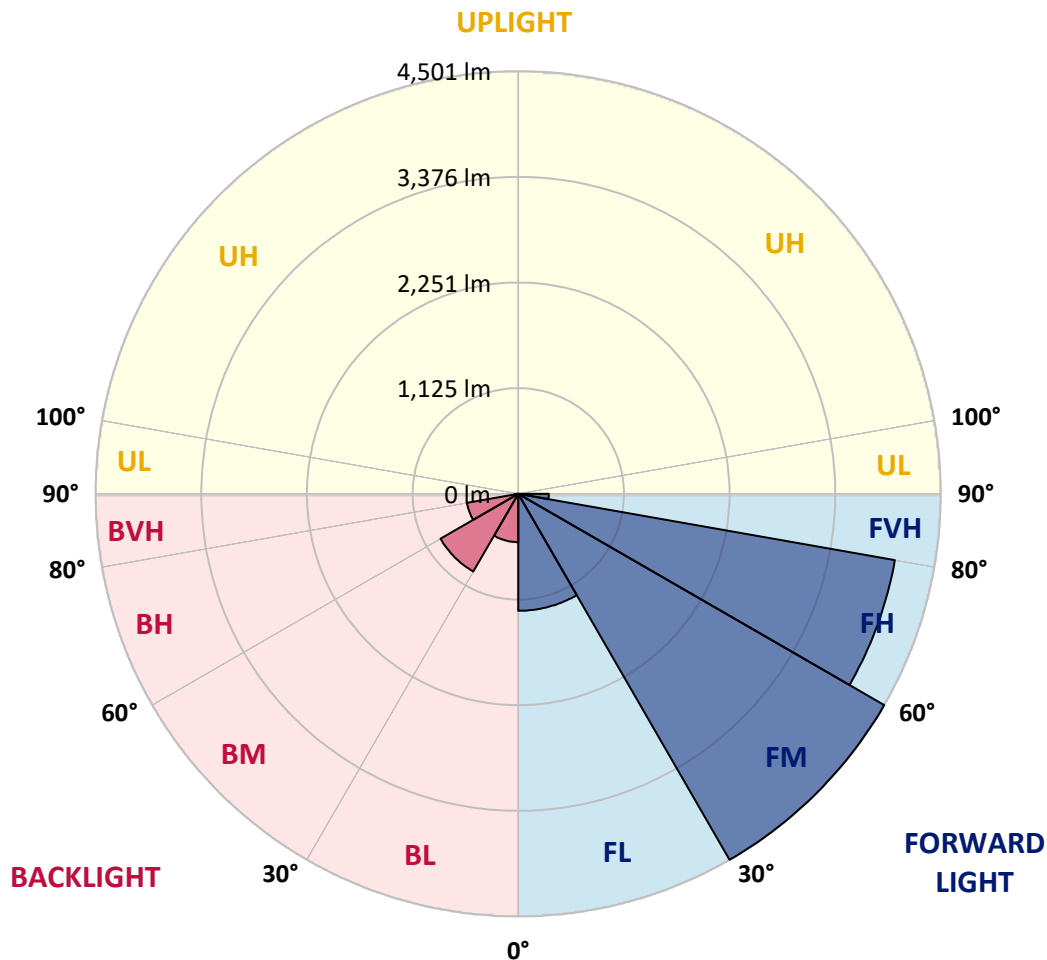
REPORT NUMBER: P649867
 CATALOG NUMBER: GLAN-SA4A-835-U-SLL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1246.3 | 10.2 | | | |
| FM (30°-60°) | 4501.4 | 36.9 | | | |
| FH (60°-80°) | 4073.3 | 33.4 | | | G2/5000 |
| FVH (80°-90°) | 325.3 | 2.7 | | | G3/500 |
| BL (0°-30°) | 514.8 | 4.2 | B2/1000 | | |
| BM (30°-60°) | 956.2 | 7.8 | B1/1000 | | |
| BH (60°-80°) | 555.3 | 4.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 37.5 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G3

Type III Medium





REPORT NUMBER: P649867
 CATALOG NUMBER: GLAN-SA4A-835-U-SLL

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3814.7 | 3814.7 | 3814.7 | 3814.7 | 3814.7 | 3814.7 | 3814.7 | 3814.7 | 3814.7 | 3814.7 | 3814.7 |
| 2.5° | 4113.0 | 4118.5 | 4153.7 | 4256.3 | 4326.8 | 4352.6 | 4370.6 | 4337.0 | 4304.1 | 4224.2 | 4103.6 |
| 5° | 4100.5 | 4132.6 | 4224.2 | 4454.4 | 4636.1 | 4714.4 | 4737.9 | 4636.8 | 4470.1 | 4264.9 | 4018.3 |
| 7.5° | 3860.9 | 3904.0 | 4044.9 | 4430.9 | 4751.2 | 4934.4 | 4910.1 | 4727.7 | 4427.0 | 4061.3 | 3716.8 |
| 10° | 3576.7 | 3624.4 | 3794.3 | 4261.0 | 4673.6 | 4925.8 | 4925.8 | 4703.4 | 4304.1 | 3869.5 | 3472.5 |
| 12.5° | 3351.2 | 3401.3 | 3595.5 | 4086.4 | 4512.4 | 4751.2 | 4791.1 | 4600.0 | 4215.6 | 3748.1 | 3312.0 |
| 15° | 3276.8 | 3325.3 | 3534.4 | 3980.7 | 4341.7 | 4487.3 | 4500.6 | 4438.0 | 4172.5 | 3756.8 | 3305.0 |
| 17.5° | 3369.2 | 3431.8 | 3643.2 | 4012.0 | 4185.1 | 4193.7 | 4203.8 | 4253.2 | 4177.2 | 3914.1 | 3447.5 |
| 20° | 3636.2 | 3703.5 | 3924.3 | 4113.0 | 4048.0 | 3958.8 | 3964.3 | 4091.1 | 4232.8 | 4174.1 | 3788.1 |
| 22.5° | 4021.4 | 4080.1 | 4306.4 | 4290.8 | 3990.1 | 3806.1 | 3767.7 | 3944.7 | 4315.0 | 4498.3 | 4150.6 |
| 25° | 4437.2 | 4506.1 | 4766.0 | 4554.6 | 4006.5 | 3715.3 | 3691.0 | 3858.5 | 4400.4 | 4801.3 | 4569.5 |
| 27.5° | 4913.2 | 4980.6 | 5185.7 | 4820.9 | 4092.7 | 3708.2 | 3679.2 | 3850.7 | 4477.1 | 5081.6 | 4969.6 |
| 30° | 5267.2 | 5329.0 | 5468.4 | 5044.8 | 4198.4 | 3755.2 | 3719.2 | 3912.6 | 4542.9 | 5273.4 | 5359.6 |
| 32.5° | 5545.1 | 5609.3 | 5685.3 | 5184.2 | 4337.7 | 3840.5 | 3774.0 | 4025.3 | 4629.0 | 5419.8 | 5648.5 |
| 35° | 5834.8 | 5910.8 | 5905.3 | 5307.9 | 4467.7 | 3939.2 | 3874.2 | 4188.2 | 4764.5 | 5547.5 | 6014.9 |
| 37.5° | 6202.1 | 6232.6 | 6193.5 | 5419.1 | 4623.5 | 4116.9 | 4080.9 | 4430.1 | 4957.1 | 5701.7 | 6443.2 |
| 40° | 6574.8 | 6635.8 | 6434.6 | 5553.7 | 4813.0 | 4451.3 | 4447.4 | 4788.0 | 5185.7 | 5882.6 | 6858.2 |
| 42.5° | 6894.2 | 6945.9 | 6660.1 | 5671.2 | 5042.4 | 4859.2 | 4889.0 | 5267.9 | 5485.6 | 6092.4 | 7191.8 |
| 45° | 7134.6 | 7180.8 | 6868.4 | 5784.7 | 5344.7 | 5330.6 | 5506.0 | 5782.4 | 5863.8 | 6281.1 | 7387.5 |
| 47.5° | 7339.0 | 7383.6 | 7013.3 | 5957.0 | 5718.2 | 5893.6 | 6198.9 | 6318.7 | 6187.2 | 6389.2 | 7606.8 |
| 50° | 7511.2 | 7524.6 | 7112.7 | 6162.1 | 6181.7 | 6583.4 | 6879.4 | 6956.9 | 6506.7 | 6544.2 | 7797.0 |
| 52.5° | 7690.5 | 7673.3 | 7284.2 | 6420.5 | 6682.8 | 7238.0 | 7453.3 | 7533.9 | 6812.8 | 6735.3 | 8074.2 |
| 55° | 8092.2 | 8108.7 | 7668.6 | 6746.2 | 7189.4 | 7880.8 | 8164.3 | 8086.7 | 7151.8 | 7086.9 | 8426.6 |
| 57.5° | 8577.7 | 8563.6 | 8209.7 | 7256.0 | 7705.4 | 8479.0 | 8690.4 | 8565.9 | 7604.4 | 7570.0 | 8783.5 |
| 60° | 8766.3 | 8785.1 | 8662.3 | 7804.1 | 8214.4 | 9002.8 | 9218.9 | 9025.5 | 8147.0 | 8131.4 | 9052.9 |
| 62.5° | 8576.9 | 8682.6 | 8765.5 | 8291.9 | 8648.2 | 9388.0 | 9602.6 | 9381.7 | 8713.1 | 8826.6 | 9241.6 |
| 65° | 8199.5 | 8222.2 | 8504.9 | 8705.3 | 8857.1 | 9451.4 | 9563.4 | 9446.0 | 9186.0 | 9460.0 | 9233.0 |
| 67.5° | 7709.3 | 7728.9 | 8060.1 | 8840.7 | 8587.9 | 8731.2 | 8809.4 | 8774.9 | 9039.6 | 9676.9 | 8807.8 |
| 70° | 7242.7 | 7227.0 | 7577.0 | 8495.5 | 7476.0 | 7258.3 | 7323.3 | 7215.3 | 7800.2 | 9146.8 | 7974.0 |
| 72.5° | 6334.4 | 6390.8 | 6766.6 | 7535.5 | 5919.4 | 5565.5 | 5707.2 | 5427.7 | 5999.3 | 7833.8 | 6472.2 |
| 75° | 4961.8 | 4975.1 | 5602.3 | 6324.2 | 4465.4 | 3907.1 | 4098.9 | 3982.3 | 4595.3 | 6534.8 | 4469.3 |
| 77.5° | 3435.7 | 3406.0 | 4080.1 | 4830.2 | 3184.4 | 2860.3 | 2863.4 | 2807.8 | 3208.7 | 4811.5 | 3036.4 |
| 80° | 2182.2 | 2136.8 | 2554.1 | 2983.9 | 2188.5 | 2341.2 | 2264.4 | 2262.1 | 2089.0 | 2968.3 | 1836.1 |
| 82.5° | 1179.2 | 1229.3 | 1613.8 | 1870.6 | 1569.9 | 1809.5 | 1658.4 | 1609.8 | 1433.7 | 1858.1 | 1174.5 |
| 85° | 537.1 | 584.1 | 860.5 | 1272.4 | 1192.5 | 1205.8 | 805.7 | 950.6 | 1186.2 | 1508.8 | 627.2 |
| 87.5° | 52.5 | 67.3 | 177.7 | 600.6 | 407.2 | 321.0 | 119.8 | 231.0 | 298.3 | 536.4 | 50.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P649867
 CATALOG NUMBER: GLAN-SA4A-835-U-SLL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3814.7 | 3814.7 | 3814.7 | 3814.7 | 3814.7 | 3814.7 | 3814.7 | 3814.7 | 3814.7 | 3814.7 | 3814.7 |
| 2.5° | 4054.3 | 4013.6 | 3875.0 | 3760.7 | 3639.3 | 3546.9 | 3426.3 | 3345.7 | 3290.1 | 3206.3 | 3196.1 |
| 5° | 3867.9 | 3768.5 | 3527.3 | 3281.5 | 3069.3 | 2909.6 | 2747.5 | 2598.8 | 2511.1 | 2483.7 | 2448.4 |
| 7.5° | 3554.0 | 3386.4 | 3076.3 | 2794.5 | 2551.0 | 2313.0 | 2129.8 | 1999.8 | 1912.9 | 1862.0 | 1800.9 |
| 10° | 3295.6 | 3101.4 | 2724.1 | 2378.8 | 2178.3 | 2030.3 | 1869.0 | 1729.6 | 1622.4 | 1530.8 | 1480.7 |
| 12.5° | 3121.7 | 2902.6 | 2478.2 | 2197.9 | 2042.8 | 1885.5 | 1696.8 | 1540.2 | 1382.0 | 1277.9 | 1233.2 |
| 15° | 3069.3 | 2837.6 | 2402.2 | 2107.8 | 1885.5 | 1679.5 | 1468.1 | 1263.8 | 1107.2 | 1008.5 | 975.6 |
| 17.5° | 3197.7 | 2917.5 | 2401.5 | 1988.0 | 1700.7 | 1454.8 | 1183.9 | 992.1 | 831.5 | 757.9 | 734.5 |
| 20° | 3437.3 | 3070.8 | 2408.5 | 1869.8 | 1500.2 | 1154.1 | 861.3 | 703.9 | 627.2 | 595.9 | 584.1 |
| 22.5° | 3771.6 | 3305.0 | 2429.6 | 1753.1 | 1281.0 | 886.4 | 645.2 | 565.3 | 537.9 | 532.4 | 530.1 |
| 25° | 4183.5 | 3594.7 | 2500.9 | 1648.2 | 1096.2 | 676.5 | 539.5 | 503.5 | 487.8 | 482.3 | 481.5 |
| 27.5° | 4562.5 | 3968.9 | 2587.0 | 1558.2 | 917.7 | 583.3 | 487.8 | 457.3 | 441.6 | 440.8 | 442.4 |
| 30° | 4904.6 | 4282.1 | 2659.1 | 1457.2 | 782.2 | 518.3 | 454.1 | 423.6 | 408.7 | 407.9 | 412.6 |
| 32.5° | 5200.6 | 4539.8 | 2712.3 | 1357.7 | 707.0 | 478.4 | 423.6 | 390.7 | 378.2 | 375.8 | 378.2 |
| 35° | 5516.9 | 4796.6 | 2688.0 | 1280.2 | 664.0 | 445.5 | 400.9 | 368.8 | 353.9 | 346.9 | 346.9 |
| 37.5° | 5877.9 | 5061.2 | 2646.5 | 1216.0 | 644.4 | 418.1 | 381.3 | 350.0 | 335.1 | 328.1 | 327.3 |
| 40° | 6271.8 | 5325.9 | 2589.4 | 1158.8 | 624.8 | 401.7 | 368.0 | 335.1 | 317.1 | 310.1 | 308.5 |
| 42.5° | 6619.4 | 5552.2 | 2542.4 | 1121.3 | 592.7 | 404.8 | 356.3 | 324.2 | 301.5 | 292.1 | 291.3 |
| 45° | 6921.6 | 5780.0 | 2533.8 | 1099.3 | 566.1 | 400.1 | 353.1 | 315.5 | 288.9 | 278.7 | 277.2 |
| 47.5° | 7158.1 | 6017.3 | 2583.1 | 1086.8 | 537.1 | 375.1 | 373.5 | 310.1 | 278.0 | 267.0 | 265.4 |
| 50° | 7446.3 | 6354.0 | 2695.9 | 1061.0 | 510.5 | 351.6 | 394.6 | 309.3 | 269.4 | 255.3 | 251.3 |
| 52.5° | 7829.9 | 6792.4 | 2848.6 | 1014.8 | 472.1 | 329.6 | 376.6 | 309.3 | 259.2 | 245.1 | 240.4 |
| 55° | 8410.1 | 7351.5 | 2998.0 | 949.8 | 418.1 | 300.7 | 339.8 | 299.9 | 244.3 | 231.8 | 228.6 |
| 57.5° | 8794.5 | 7760.2 | 3093.6 | 859.7 | 350.8 | 279.5 | 292.8 | 285.0 | 229.4 | 216.1 | 216.1 |
| 60° | 8814.1 | 7869.9 | 3048.1 | 746.2 | 308.5 | 260.0 | 254.5 | 287.4 | 216.1 | 202.0 | 200.4 |
| 62.5° | 8588.6 | 7601.3 | 2811.8 | 644.4 | 285.8 | 238.8 | 230.2 | 252.1 | 202.8 | 188.7 | 186.4 |
| 65° | 8236.3 | 6916.2 | 2401.5 | 595.9 | 273.3 | 220.0 | 207.5 | 206.7 | 188.7 | 175.4 | 172.3 |
| 67.5° | 7588.8 | 6043.9 | 1973.2 | 567.7 | 267.0 | 198.9 | 187.1 | 183.2 | 172.3 | 161.3 | 159.7 |
| 70° | 6634.3 | 5062.0 | 1582.4 | 555.9 | 263.9 | 177.0 | 167.6 | 162.9 | 153.5 | 144.9 | 144.1 |
| 72.5° | 5161.5 | 4106.0 | 1306.0 | 548.1 | 262.3 | 156.6 | 146.4 | 140.2 | 134.7 | 126.8 | 126.8 |
| 75° | 3707.4 | 3020.7 | 996.8 | 494.1 | 242.7 | 134.7 | 123.7 | 119.8 | 112.0 | 105.7 | 107.3 |
| 77.5° | 2337.3 | 2034.2 | 656.2 | 363.3 | 187.9 | 108.1 | 98.7 | 96.3 | 90.0 | 81.4 | 86.9 |
| 80° | 1578.5 | 1430.5 | 382.9 | 228.6 | 118.2 | 79.1 | 76.0 | 75.2 | 68.1 | 58.7 | 59.5 |
| 82.5° | 1074.3 | 1053.9 | 198.9 | 130.0 | 68.1 | 46.2 | 44.6 | 46.2 | 38.4 | 31.3 | 31.3 |
| 85° | 419.7 | 573.2 | 94.0 | 50.9 | 21.9 | 7.0 | 10.2 | 11.0 | 6.3 | 3.1 | 3.9 |
| 87.5° | 7.8 | 58.7 | 2.3 | 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 |



REPORT NUMBER: P649867

CATALOG NUMBER: GLAN-SA4A-835-U-SLL

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3814.7 | 3814.7 | 3814.7 | 3814.7 | 3814.7 | 3814.7 | 3814.7 | 3814.7 | 3814.7 | 3814.7 | 3814.7 |
| 2.5° | 3180.5 | 3173.4 | 3185.2 | 3135.1 | 3145.2 | 3164.0 | 3173.4 | 3178.9 | 3256.4 | 3238.4 | 3287.7 |
| 5° | 2481.3 | 2474.3 | 2519.7 | 2526.0 | 2549.4 | 2544.8 | 2567.5 | 2572.9 | 2601.1 | 2611.3 | 2680.2 |
| 7.5° | 1804.8 | 1835.4 | 1887.0 | 1913.7 | 1953.6 | 1966.1 | 1954.4 | 1983.3 | 1924.6 | 1966.9 | 1979.4 |
| 10° | 1450.1 | 1413.3 | 1391.4 | 1452.5 | 1460.3 | 1518.2 | 1494.7 | 1476.0 | 1510.4 | 1512.0 | 1544.9 |
| 12.5° | 1207.4 | 1128.3 | 1075.8 | 1093.1 | 1111.9 | 1136.9 | 1140.8 | 1178.4 | 1203.5 | 1227.0 | 1246.5 |
| 15° | 946.6 | 919.2 | 871.5 | 848.0 | 874.6 | 884.8 | 909.1 | 940.4 | 967.0 | 974.1 | 1000.7 |
| 17.5° | 726.6 | 731.3 | 723.5 | 709.4 | 725.8 | 733.7 | 735.2 | 736.0 | 743.1 | 738.4 | 777.5 |
| 20° | 584.9 | 601.3 | 620.9 | 624.1 | 629.5 | 633.4 | 626.4 | 599.8 | 600.6 | 617.0 | 629.5 |
| 22.5° | 529.3 | 532.4 | 554.4 | 561.4 | 578.6 | 571.6 | 551.2 | 538.7 | 537.1 | 541.1 | 547.3 |
| 25° | 485.5 | 490.2 | 505.8 | 516.8 | 530.1 | 517.6 | 502.7 | 490.9 | 489.4 | 493.3 | 499.6 |
| 27.5° | 446.3 | 453.4 | 467.5 | 478.4 | 490.9 | 479.2 | 465.1 | 454.9 | 454.1 | 453.4 | 457.3 |
| 30° | 415.0 | 422.8 | 433.0 | 445.5 | 454.1 | 444.0 | 430.6 | 425.2 | 424.4 | 422.8 | 424.4 |
| 32.5° | 383.7 | 396.2 | 406.4 | 412.6 | 421.3 | 413.4 | 403.2 | 400.1 | 394.6 | 389.9 | 387.6 |
| 35° | 348.4 | 361.7 | 377.4 | 385.2 | 393.8 | 386.0 | 379.0 | 365.7 | 356.3 | 355.5 | 357.0 |
| 37.5° | 328.1 | 333.6 | 346.1 | 359.4 | 368.0 | 364.1 | 350.8 | 337.5 | 335.1 | 335.1 | 336.7 |
| 40° | 310.1 | 312.4 | 317.9 | 335.1 | 350.8 | 339.0 | 322.6 | 318.7 | 318.7 | 317.9 | 318.7 |
| 42.5° | 292.1 | 294.4 | 294.4 | 307.7 | 332.8 | 314.0 | 301.5 | 301.5 | 301.5 | 302.2 | 304.6 |
| 45° | 275.6 | 276.4 | 275.6 | 285.0 | 308.5 | 292.8 | 284.2 | 286.6 | 288.1 | 289.7 | 291.3 |
| 47.5° | 261.5 | 262.3 | 261.5 | 269.4 | 281.1 | 274.8 | 270.1 | 273.3 | 276.4 | 278.7 | 280.3 |
| 50° | 249.0 | 248.2 | 249.8 | 254.5 | 260.0 | 261.5 | 258.4 | 263.1 | 264.7 | 267.8 | 271.7 |
| 52.5° | 238.0 | 237.2 | 238.8 | 241.2 | 249.0 | 249.0 | 249.0 | 252.9 | 256.0 | 259.2 | 264.7 |
| 55° | 225.5 | 226.3 | 228.6 | 231.8 | 241.9 | 240.4 | 241.2 | 244.3 | 247.4 | 252.1 | 255.3 |
| 57.5° | 213.8 | 215.3 | 218.5 | 223.2 | 233.3 | 232.6 | 233.3 | 234.9 | 238.8 | 241.2 | 244.3 |
| 60° | 200.4 | 203.6 | 207.5 | 210.6 | 220.8 | 220.0 | 223.9 | 227.1 | 229.4 | 229.4 | 231.0 |
| 62.5° | 187.1 | 191.8 | 195.8 | 198.1 | 209.1 | 209.8 | 215.3 | 217.7 | 219.2 | 217.7 | 220.0 |
| 65° | 173.8 | 180.9 | 182.4 | 185.6 | 196.5 | 197.3 | 203.6 | 209.1 | 207.5 | 205.9 | 209.8 |
| 67.5° | 160.5 | 169.1 | 168.3 | 172.3 | 183.2 | 184.8 | 190.3 | 199.7 | 196.5 | 195.0 | 198.1 |
| 70° | 145.6 | 151.9 | 152.7 | 155.0 | 169.9 | 167.6 | 176.2 | 184.8 | 182.4 | 183.2 | 183.2 |
| 72.5° | 129.2 | 134.7 | 134.7 | 139.4 | 155.0 | 151.1 | 158.2 | 167.6 | 167.6 | 166.8 | 166.8 |
| 75° | 109.6 | 112.8 | 115.9 | 122.9 | 139.4 | 134.7 | 139.4 | 148.0 | 149.6 | 148.0 | 148.0 |
| 77.5° | 88.5 | 93.2 | 94.7 | 104.1 | 115.9 | 115.1 | 119.8 | 123.7 | 126.8 | 125.3 | 125.3 |
| 80° | 62.6 | 67.3 | 73.6 | 83.8 | 90.8 | 93.2 | 95.5 | 98.7 | 100.2 | 100.2 | 101.8 |
| 82.5° | 35.2 | 42.3 | 47.8 | 57.9 | 61.1 | 72.8 | 72.0 | 74.4 | 72.0 | 63.4 | 70.5 |
| 85° | 7.8 | 14.9 | 21.1 | 26.6 | 30.5 | 42.3 | 44.6 | 50.1 | 41.5 | 38.4 | 38.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.3 | 12.5 | 17.2 | 14.9 | 12.5 | 12.5 |
| 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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| 0° | 3814.7 | 3814.7 | 3814.7 | 3814.7 | 3814.7 | 3814.7 | 3814.7 | 3814.7 | 3814.7 | 3814.7 |
| 2.5° | 3329.2 | 3397.4 | 3479.6 | 3621.3 | 3720.7 | 3828.0 | 3936.1 | 4051.2 | 4081.7 | 4113.0 |
| 5° | 2699.0 | 2832.9 | 2905.7 | 3095.9 | 3295.6 | 3549.3 | 3756.8 | 3983.8 | 4078.6 | 4100.5 |
| 7.5° | 2044.4 | 2135.2 | 2326.3 | 2518.9 | 2766.3 | 3032.5 | 3350.4 | 3704.3 | 3814.7 | 3860.9 |
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| 12.5° | 1379.6 | 1517.5 | 1699.9 | 1918.4 | 2123.5 | 2339.6 | 2701.4 | 3128.0 | 3295.6 | 3351.2 |
| 15° | 1103.2 | 1270.0 | 1480.7 | 1710.9 | 1934.0 | 2170.5 | 2536.9 | 3018.4 | 3211.8 | 3276.8 |
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| 20° | 663.2 | 759.5 | 951.3 | 1215.2 | 1525.3 | 1916.8 | 2511.1 | 3268.9 | 3554.0 | 3636.2 |
| 22.5° | 573.2 | 622.5 | 739.2 | 990.5 | 1337.4 | 1807.2 | 2546.3 | 3540.6 | 3884.4 | 4021.4 |
| 25° | 519.1 | 545.0 | 610.7 | 775.2 | 1158.1 | 1700.7 | 2627.0 | 3906.3 | 4346.4 | 4437.2 |
| 27.5° | 472.9 | 491.7 | 532.4 | 650.7 | 995.2 | 1602.0 | 2720.9 | 4311.9 | 4777.8 | 4913.2 |
| 30° | 429.1 | 454.1 | 492.5 | 577.9 | 891.1 | 1512.0 | 2839.2 | 4640.8 | 5141.1 | 5267.2 |
| 32.5° | 395.4 | 420.5 | 455.7 | 527.0 | 802.6 | 1417.2 | 2909.6 | 4929.7 | 5437.9 | 5545.1 |
| 35° | 368.0 | 389.2 | 426.0 | 486.2 | 735.2 | 1345.2 | 2895.5 | 5159.1 | 5725.2 | 5834.8 |
| 37.5° | 348.4 | 366.4 | 403.2 | 447.9 | 684.3 | 1270.0 | 2888.5 | 5462.1 | 6075.2 | 6202.1 |
| 40° | 330.4 | 349.2 | 382.9 | 422.8 | 633.4 | 1181.5 | 2892.4 | 5762.8 | 6447.9 | 6574.8 |
| 42.5° | 316.3 | 337.5 | 364.9 | 415.8 | 581.0 | 1110.3 | 2892.4 | 6024.3 | 6772.1 | 6894.2 |
| 45° | 304.6 | 327.3 | 353.9 | 415.0 | 539.5 | 1056.3 | 2872.8 | 6249.0 | 7030.5 | 7134.6 |
| 47.5° | 294.4 | 319.5 | 357.8 | 400.9 | 529.3 | 1017.1 | 2855.6 | 6429.1 | 7241.1 | 7339.0 |
| 50° | 287.4 | 317.1 | 380.5 | 384.5 | 532.4 | 1005.4 | 2938.5 | 6656.2 | 7426.7 | 7511.2 |
| 52.5° | 281.9 | 317.9 | 379.8 | 360.2 | 527.0 | 1013.2 | 3111.6 | 7010.9 | 7684.3 | 7690.5 |
| 55° | 270.9 | 317.1 | 360.2 | 332.8 | 504.3 | 1026.5 | 3333.9 | 7526.1 | 8087.5 | 8092.2 |
| 57.5° | 260.0 | 308.5 | 334.3 | 309.3 | 458.1 | 1026.5 | 3601.7 | 8013.9 | 8573.8 | 8577.7 |
| 60° | 249.0 | 321.0 | 293.6 | 288.9 | 397.8 | 1007.7 | 3884.4 | 8228.5 | 8726.5 | 8766.3 |
| 62.5° | 238.0 | 323.4 | 262.3 | 270.9 | 353.9 | 962.3 | 4095.0 | 7991.2 | 8519.7 | 8576.9 |
| 65° | 225.5 | 260.7 | 241.9 | 252.1 | 331.2 | 886.4 | 4028.5 | 7556.7 | 8131.4 | 8199.5 |
| 67.5° | 210.6 | 220.8 | 220.0 | 232.6 | 323.4 | 774.4 | 3677.7 | 7007.0 | 7713.3 | 7709.3 |
| 70° | 192.6 | 198.1 | 200.4 | 213.8 | 308.5 | 687.5 | 3064.6 | 6293.7 | 7155.0 | 7242.7 |
| 72.5° | 173.8 | 178.5 | 180.9 | 192.6 | 293.6 | 638.1 | 2378.8 | 5311.0 | 6197.4 | 6334.4 |
| 75° | 153.5 | 156.6 | 159.7 | 169.9 | 278.0 | 565.3 | 1694.4 | 4054.3 | 4746.5 | 4961.8 |
| 77.5° | 132.3 | 132.3 | 136.2 | 146.4 | 234.1 | 466.7 | 1136.9 | 2843.9 | 3215.7 | 3435.7 |
| 80° | 107.3 | 108.1 | 106.5 | 117.4 | 172.3 | 319.5 | 646.0 | 1899.6 | 2139.9 | 2182.2 |
| 82.5° | 82.2 | 79.9 | 80.6 | 86.1 | 128.4 | 217.7 | 344.5 | 1180.0 | 1202.7 | 1179.2 |
| 85° | 51.7 | 51.7 | 50.1 | 56.4 | 82.2 | 113.5 | 187.9 | 722.7 | 564.5 | 537.1 |
| 87.5° | 21.1 | 17.2 | 19.6 | 22.7 | 39.2 | 46.2 | 73.6 | 148.8 | 57.2 | 52.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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