

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: P649300

Luminaire Tested: **GLAN-SA3D-835-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P649300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3D-835-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18259.6 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

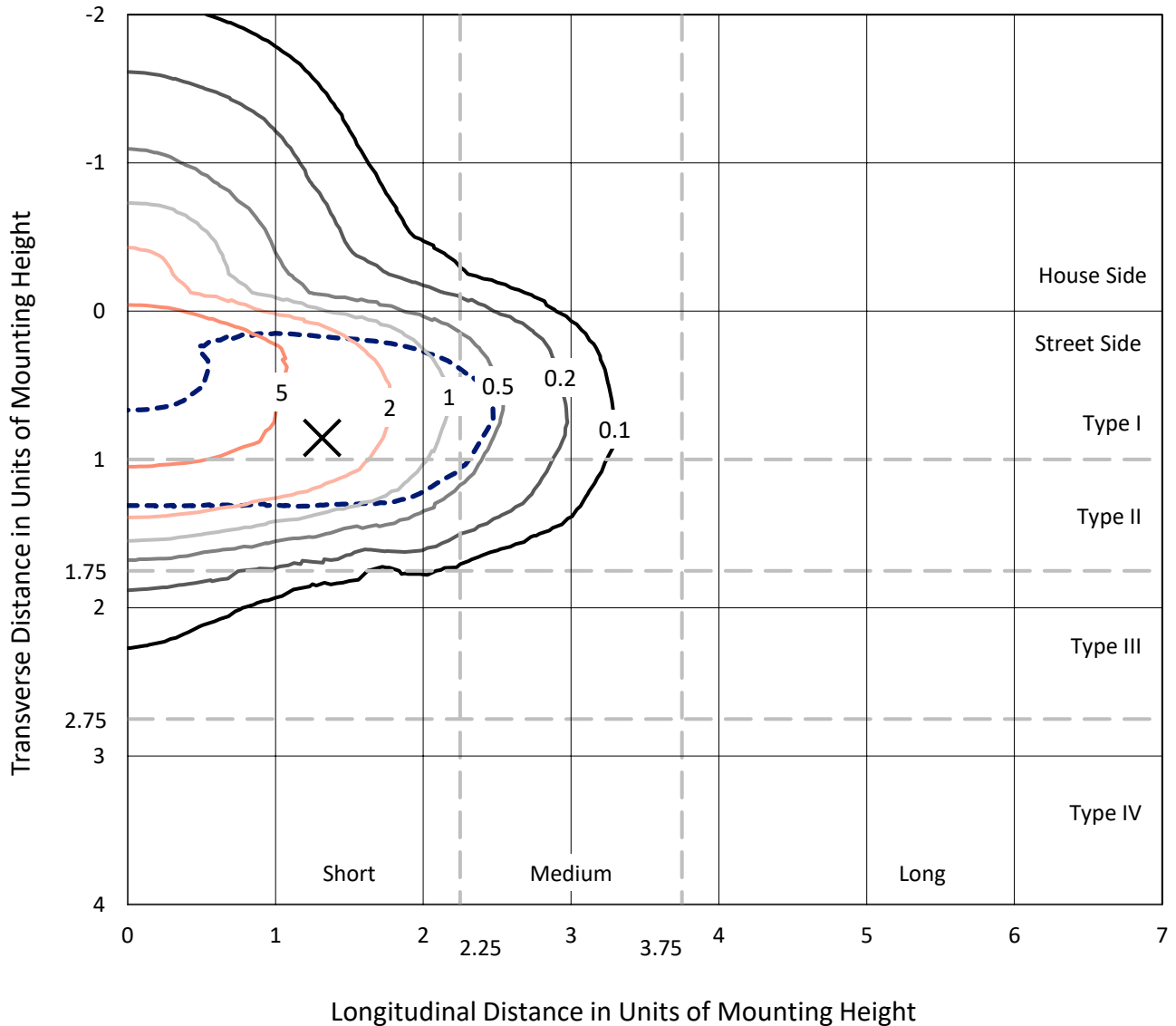
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P649300
 CATALOG NUMBER: GLAN-SA3D-835-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

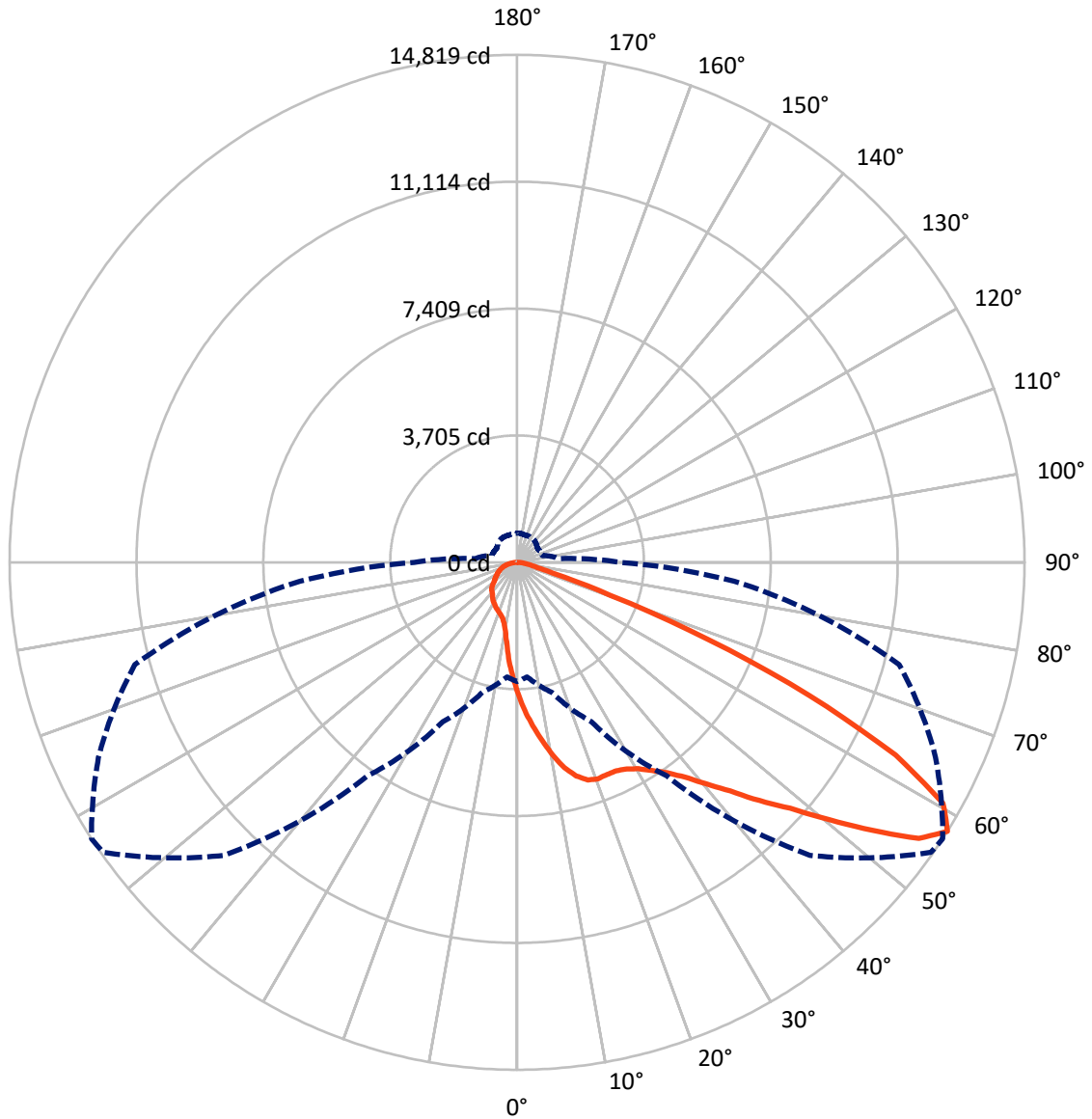
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

REPORT NUMBER: P649300
CATALOG NUMBER: GLAN-SA3D-835-U-AFL

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P649300
 CATALOG NUMBER: GLAN-SA3D-835-U-AFL

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2776.8 | 0.0 | 2776.8 |
| | % Fixture | 15.2 | 0.0 | 15.2 |
| Street Side | Lumens | 15482.8 | 0.0 | 15482.8 |
| | % Fixture | 84.8 | 0.0 | 84.8 |
| Total | Lumens | 18259.6 | 0.0 | 18259.6 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 368.7 | 2.0 |
| 10°-20° | 1086.5 | 6.0 |
| 20°-30° | 1804.2 | 9.9 |
| 30°-40° | 2717.7 | 14.9 |
| 40°-50° | 4080.4 | 22.3 |
| 50°-60° | 4573.6 | 25.0 |
| 60°-70° | 2676.7 | 14.7 |
| 70°-80° | 791.7 | 4.3 |
| 80°-90° | 160.0 | 0.9 |
| 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° | 18259.6 | 100.0 |
| 0°-180° | 18259.6 | 100.0 |

Coefficient of Utilization



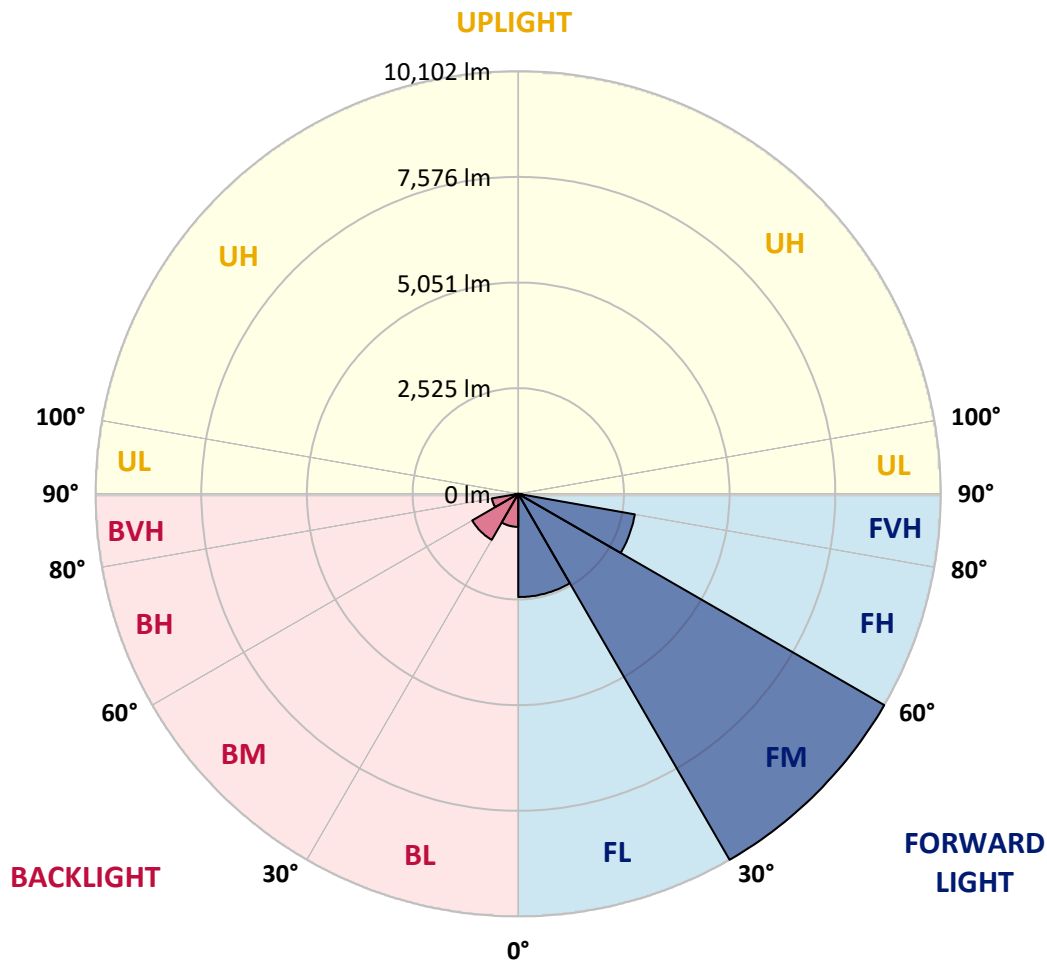
REPORT NUMBER: P649300
 CATALOG NUMBER: GLAN-SA3D-835-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2468.3 | 13.5 | | | |
| FM (30°-60°) | 10102.0 | 55.3 | | | |
| FH (60°-80°) | 2829.5 | 15.5 | | | G2/5000 |
| FVH (80°-90°) | 83.0 | 0.5 | | | G1/100 |
| BL (0°-30°) | 791.2 | 4.3 | B2/1000 | | |
| BM (30°-60°) | 1269.6 | 7.0 | B2/2500 | | |
| BH (60°-80°) | 638.9 | 3.5 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 77.0 | 0.4 | | | G1/100 |
| 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





REPORT NUMBER: P649300

CATALOG NUMBER: GLAN-SA3D-835-U-AFL

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 57° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|--------|
| 0° | 3836.2 | 3836.2 | 3836.2 | 3836.2 | 3836.2 | 3836.2 | 3836.2 | 3836.2 | 3836.2 | 3836.2 | 3836.2 |
| 2.5° | 4766.7 | 4714.7 | 4673.7 | 4637.7 | 4590.7 | 4463.8 | 4336.9 | 4334.8 | 4233.9 | 4078.0 | 3918.1 |
| 5° | 5543.3 | 5473.3 | 5482.3 | 5370.4 | 5258.4 | 5074.5 | 4805.7 | 4791.6 | 4576.8 | 4284.9 | 3988.1 |
| 7.5° | 6049.1 | 6050.0 | 6022.1 | 5958.1 | 5837.1 | 5628.3 | 5323.4 | 5254.4 | 4955.6 | 4512.8 | 4068.0 |
| 10° | 6023.1 | 6050.0 | 6097.0 | 6152.0 | 6189.0 | 6086.0 | 5808.1 | 5724.2 | 5335.4 | 4788.7 | 4156.9 |
| 12.5° | 5677.2 | 5719.2 | 5786.1 | 5924.1 | 6147.0 | 6316.9 | 6222.0 | 6154.0 | 5775.2 | 5063.5 | 4254.9 |
| 15° | 5461.3 | 5486.3 | 5523.3 | 5616.2 | 5856.1 | 6262.9 | 6508.8 | 6472.8 | 6190.0 | 5374.4 | 4364.8 |
| 17.5° | 5395.3 | 5420.3 | 5432.4 | 5489.3 | 5660.2 | 6077.0 | 6621.8 | 6685.7 | 6557.8 | 5660.2 | 4475.8 |
| 20° | 5461.3 | 5473.3 | 5473.3 | 5507.3 | 5641.3 | 5968.1 | 6616.7 | 6745.7 | 6859.6 | 6003.0 | 4579.8 |
| 22.5° | 5634.2 | 5639.2 | 5632.3 | 5644.3 | 5744.2 | 5998.1 | 6569.8 | 6729.7 | 7103.5 | 6293.9 | 4660.7 |
| 25° | 5915.1 | 5923.1 | 5877.1 | 5849.2 | 5922.1 | 6130.0 | 6595.8 | 6742.7 | 7294.4 | 6571.8 | 4714.7 |
| 27.5° | 6233.9 | 6244.0 | 6188.0 | 6123.0 | 6157.0 | 6292.9 | 6697.7 | 6829.6 | 7437.3 | 6845.7 | 4748.7 |
| 30° | 6624.7 | 6628.7 | 6534.8 | 6456.9 | 6434.9 | 6535.8 | 6871.6 | 6994.6 | 7615.3 | 7168.5 | 4799.6 |
| 32.5° | 7024.5 | 7054.5 | 6933.6 | 6823.7 | 6786.7 | 6817.7 | 7128.5 | 7247.4 | 7827.2 | 7515.3 | 4881.6 |
| 35° | 7568.3 | 7573.3 | 7428.4 | 7294.4 | 7172.5 | 7212.4 | 7457.4 | 7543.3 | 8120.0 | 7916.1 | 4997.6 |
| 37.5° | 8246.9 | 8292.9 | 8093.0 | 7843.2 | 7693.2 | 7635.3 | 7855.1 | 7949.1 | 8530.9 | 8407.9 | 5172.5 |
| 40° | 9000.6 | 9017.6 | 8846.6 | 8690.8 | 8416.9 | 8249.0 | 8400.9 | 8502.8 | 9037.5 | 8994.6 | 5375.4 |
| 42.5° | 9474.4 | 9511.3 | 9524.3 | 9508.4 | 9302.4 | 9020.6 | 9078.6 | 9126.6 | 9637.3 | 9545.3 | 5583.3 |
| 45° | 9634.3 | 9689.2 | 9875.2 | 10269.0 | 10291.0 | 10013.1 | 9878.2 | 9924.1 | 10291.0 | 10101.1 | 5782.1 |
| 47.5° | 9369.5 | 9463.3 | 9806.2 | 10613.8 | 11218.5 | 11239.5 | 10832.7 | 10731.7 | 10886.7 | 10561.8 | 5926.1 |
| 50° | 8684.7 | 8704.8 | 9229.5 | 10398.9 | 11653.3 | 12412.0 | 11991.2 | 11803.3 | 11452.4 | 10902.6 | 6025.0 |
| 52.5° | 7625.2 | 7648.3 | 8088.1 | 9400.4 | 11385.4 | 13231.5 | 13346.5 | 13010.6 | 12027.1 | 11167.5 | 6090.0 |
| 55° | 5660.2 | 5793.2 | 6276.9 | 7545.3 | 10116.0 | 13154.6 | 14424.0 | 14233.1 | 12721.8 | 11377.5 | 6192.0 |
| 57.5° | 3480.3 | 3358.4 | 3932.1 | 5133.5 | 7608.3 | 12097.1 | 14756.8 | 14818.7 | 13486.4 | 11553.3 | 6362.9 |
| 60° | 1601.2 | 1625.2 | 1862.1 | 2647.7 | 4637.7 | 9463.3 | 13899.2 | 14291.0 | 13909.2 | 11547.4 | 6405.9 |
| 62.5° | 1103.5 | 1081.5 | 1021.5 | 1162.4 | 2115.0 | 5985.1 | 11740.2 | 12404.0 | 13061.6 | 11188.5 | 6235.0 |
| 65° | 986.5 | 964.5 | 848.6 | 809.6 | 971.5 | 2608.7 | 8534.9 | 9372.4 | 10997.6 | 10283.0 | 5809.2 |
| 67.5° | 921.5 | 891.6 | 771.6 | 695.7 | 693.7 | 1038.5 | 5032.6 | 6041.1 | 8157.0 | 8693.7 | 5033.5 |
| 70° | 853.5 | 829.6 | 710.7 | 626.7 | 590.7 | 652.7 | 2211.9 | 2895.6 | 5296.4 | 6264.9 | 3921.1 |
| 72.5° | 785.6 | 757.6 | 650.7 | 560.7 | 513.7 | 488.7 | 847.6 | 1102.5 | 2992.5 | 3756.1 | 2403.8 |
| 75° | 686.7 | 672.7 | 581.7 | 507.8 | 456.8 | 394.8 | 537.8 | 613.7 | 1431.3 | 1725.2 | 1206.4 |
| 77.5° | 600.7 | 585.7 | 516.8 | 443.8 | 406.8 | 320.9 | 381.8 | 416.8 | 603.7 | 699.7 | 544.7 |
| 80° | 439.8 | 454.8 | 435.8 | 391.8 | 362.8 | 251.9 | 256.9 | 285.9 | 358.8 | 396.8 | 332.9 |
| 82.5° | 278.8 | 306.9 | 335.8 | 301.8 | 274.8 | 198.9 | 177.9 | 188.9 | 244.8 | 259.9 | 147.9 |
| 85° | 117.0 | 118.9 | 194.9 | 183.9 | 156.9 | 117.9 | 107.0 | 112.9 | 130.9 | 136.9 | 69.0 |
| 87.5° | 44.9 | 44.0 | 69.0 | 64.0 | 48.9 | 34.0 | 34.0 | 38.0 | 52.0 | 48.0 | 22.0 |
| 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: P649300
 CATALOG NUMBER: GLAN-SA3D-835-U-AFL

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3836.2 | 3836.2 | 3836.2 | 3836.2 | 3836.2 | 3836.2 | 3836.2 | 3836.2 | 3836.2 | 3836.2 | 3836.2 |
| 2.5° | 3849.1 | 3778.1 | 3637.2 | 3462.3 | 3334.4 | 3190.4 | 3063.5 | 2972.6 | 2938.6 | 2922.5 | 2892.6 |
| 5° | 3846.1 | 3706.2 | 3414.3 | 3108.5 | 2862.6 | 2610.8 | 2397.9 | 2259.9 | 2247.9 | 2155.9 | 2147.0 |
| 7.5° | 3847.1 | 3633.2 | 3168.5 | 2718.7 | 2343.8 | 2086.0 | 1910.1 | 1864.1 | 1809.1 | 1795.1 | 1802.2 |
| 10° | 3850.1 | 3540.3 | 2904.6 | 2332.9 | 1970.0 | 1801.1 | 1735.1 | 1717.2 | 1719.2 | 1725.2 | 1726.1 |
| 12.5° | 3854.1 | 3450.3 | 2630.7 | 2040.0 | 1760.1 | 1690.2 | 1683.2 | 1699.2 | 1716.2 | 1729.2 | 1732.2 |
| 15° | 3859.1 | 3347.3 | 2363.9 | 1804.1 | 1655.2 | 1649.2 | 1672.2 | 1699.2 | 1723.1 | 1742.2 | 1745.2 |
| 17.5° | 3853.1 | 3227.4 | 2139.9 | 1659.2 | 1597.2 | 1626.2 | 1664.2 | 1698.2 | 1720.2 | 1738.2 | 1740.1 |
| 20° | 3839.1 | 3093.5 | 1924.1 | 1557.2 | 1561.2 | 1608.2 | 1649.2 | 1681.2 | 1705.1 | 1714.1 | 1721.2 |
| 22.5° | 3785.2 | 2933.6 | 1736.1 | 1478.3 | 1518.2 | 1583.2 | 1632.2 | 1651.2 | 1624.2 | 1605.2 | 1610.2 |
| 25° | 3693.2 | 2725.7 | 1561.2 | 1414.3 | 1479.2 | 1548.2 | 1598.2 | 1552.2 | 1530.2 | 1522.2 | 1526.2 |
| 27.5° | 3578.2 | 2497.8 | 1429.3 | 1347.3 | 1429.3 | 1509.2 | 1495.3 | 1487.3 | 1477.3 | 1464.3 | 1467.3 |
| 30° | 3454.3 | 2274.8 | 1317.3 | 1295.4 | 1375.3 | 1421.3 | 1427.3 | 1440.3 | 1429.3 | 1409.3 | 1417.3 |
| 32.5° | 3339.3 | 2065.0 | 1232.4 | 1251.4 | 1337.4 | 1330.3 | 1375.3 | 1390.3 | 1339.3 | 1272.4 | 1275.4 |
| 35° | 3241.4 | 1870.1 | 1168.4 | 1208.4 | 1272.4 | 1275.4 | 1320.4 | 1268.4 | 1213.4 | 1181.4 | 1183.4 |
| 37.5° | 3167.5 | 1718.1 | 1126.4 | 1171.4 | 1189.5 | 1227.4 | 1203.4 | 1176.5 | 1169.4 | 1147.4 | 1148.4 |
| 40° | 3123.5 | 1585.3 | 1099.5 | 1142.5 | 1139.4 | 1165.4 | 1088.4 | 1115.5 | 1125.5 | 1118.4 | 1119.5 |
| 42.5° | 3079.5 | 1491.3 | 1071.5 | 1102.5 | 1101.4 | 1050.5 | 1033.5 | 1056.5 | 1082.5 | 1085.5 | 1083.4 |
| 45° | 3044.5 | 1418.3 | 1042.5 | 1041.5 | 1061.5 | 981.5 | 976.6 | 990.5 | 1027.5 | 1045.5 | 1044.5 |
| 47.5° | 3005.5 | 1357.3 | 998.5 | 970.5 | 976.6 | 938.5 | 930.5 | 936.5 | 981.5 | 1010.5 | 1018.5 |
| 50° | 2956.5 | 1296.3 | 943.5 | 905.5 | 880.6 | 898.6 | 900.5 | 901.5 | 946.6 | 979.5 | 986.5 |
| 52.5° | 2917.5 | 1250.4 | 880.6 | 852.6 | 822.6 | 862.6 | 877.6 | 879.5 | 906.6 | 933.6 | 938.5 |
| 55° | 2940.6 | 1224.4 | 818.6 | 798.6 | 771.6 | 825.6 | 854.6 | 858.6 | 864.6 | 884.6 | 887.5 |
| 57.5° | 3009.5 | 1230.4 | 768.6 | 742.7 | 722.6 | 781.6 | 830.6 | 833.6 | 829.6 | 853.5 | 857.5 |
| 60° | 3030.5 | 1227.4 | 731.6 | 680.7 | 668.7 | 734.6 | 795.6 | 801.6 | 800.6 | 835.6 | 842.6 |
| 62.5° | 2942.6 | 1189.5 | 694.7 | 628.7 | 620.7 | 686.7 | 746.7 | 770.6 | 775.6 | 825.6 | 834.6 |
| 65° | 2735.6 | 1111.5 | 645.7 | 573.7 | 573.7 | 635.7 | 699.7 | 732.7 | 746.7 | 813.6 | 823.6 |
| 67.5° | 2462.8 | 1019.5 | 595.7 | 526.7 | 524.8 | 586.7 | 649.7 | 683.6 | 705.6 | 796.6 | 802.6 |
| 70° | 2044.0 | 895.6 | 533.8 | 475.8 | 475.8 | 531.7 | 588.7 | 629.7 | 661.7 | 764.6 | 764.6 |
| 72.5° | 1400.3 | 744.6 | 458.8 | 417.8 | 418.8 | 470.7 | 528.8 | 574.7 | 612.7 | 700.6 | 702.7 |
| 75° | 885.6 | 581.7 | 376.8 | 355.8 | 359.8 | 408.8 | 468.8 | 516.8 | 592.7 | 692.6 | 695.7 |
| 77.5° | 470.7 | 408.8 | 299.9 | 294.9 | 299.9 | 344.8 | 411.8 | 477.8 | 594.7 | 600.7 | 590.7 |
| 80° | 304.8 | 289.9 | 236.9 | 226.9 | 228.9 | 277.9 | 366.8 | 453.7 | 477.8 | 483.7 | 461.7 |
| 82.5° | 165.9 | 183.9 | 168.0 | 157.9 | 157.9 | 216.9 | 312.8 | 360.8 | 342.8 | 284.9 | 271.9 |
| 85° | 70.9 | 86.0 | 87.0 | 76.0 | 73.0 | 134.0 | 209.9 | 196.9 | 182.9 | 174.9 | 172.9 |
| 87.5° | 20.0 | 28.0 | 28.0 | 21.0 | 16.0 | 37.0 | 42.0 | 12.0 | 0.0 | 1.0 | 2.0 |
| 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)