

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: P531625

Luminaire Tested: **GLAN-SA6D-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA6D-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22170 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

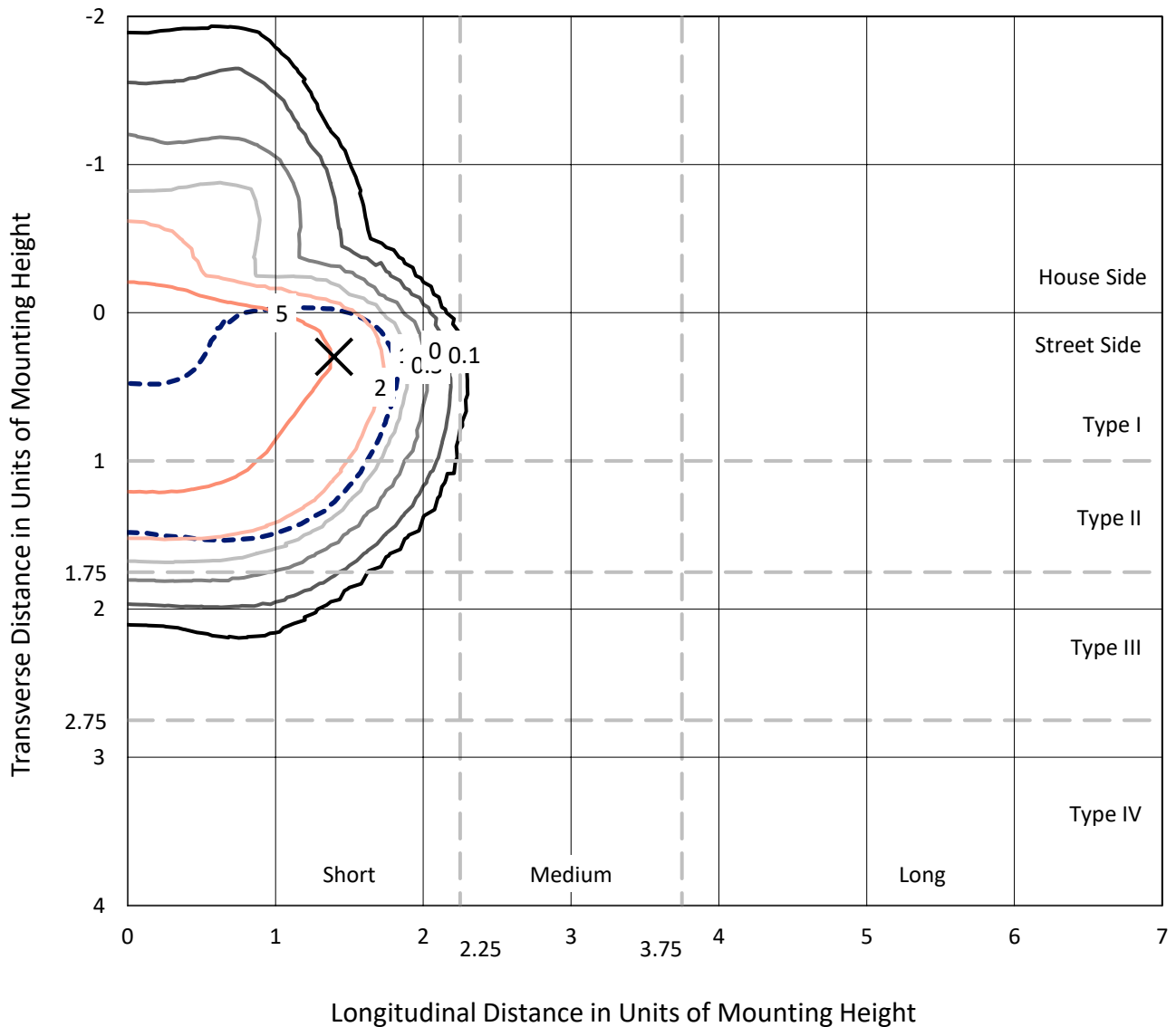
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531625
 CATALOG NUMBER: GLAN-SA6D-830-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

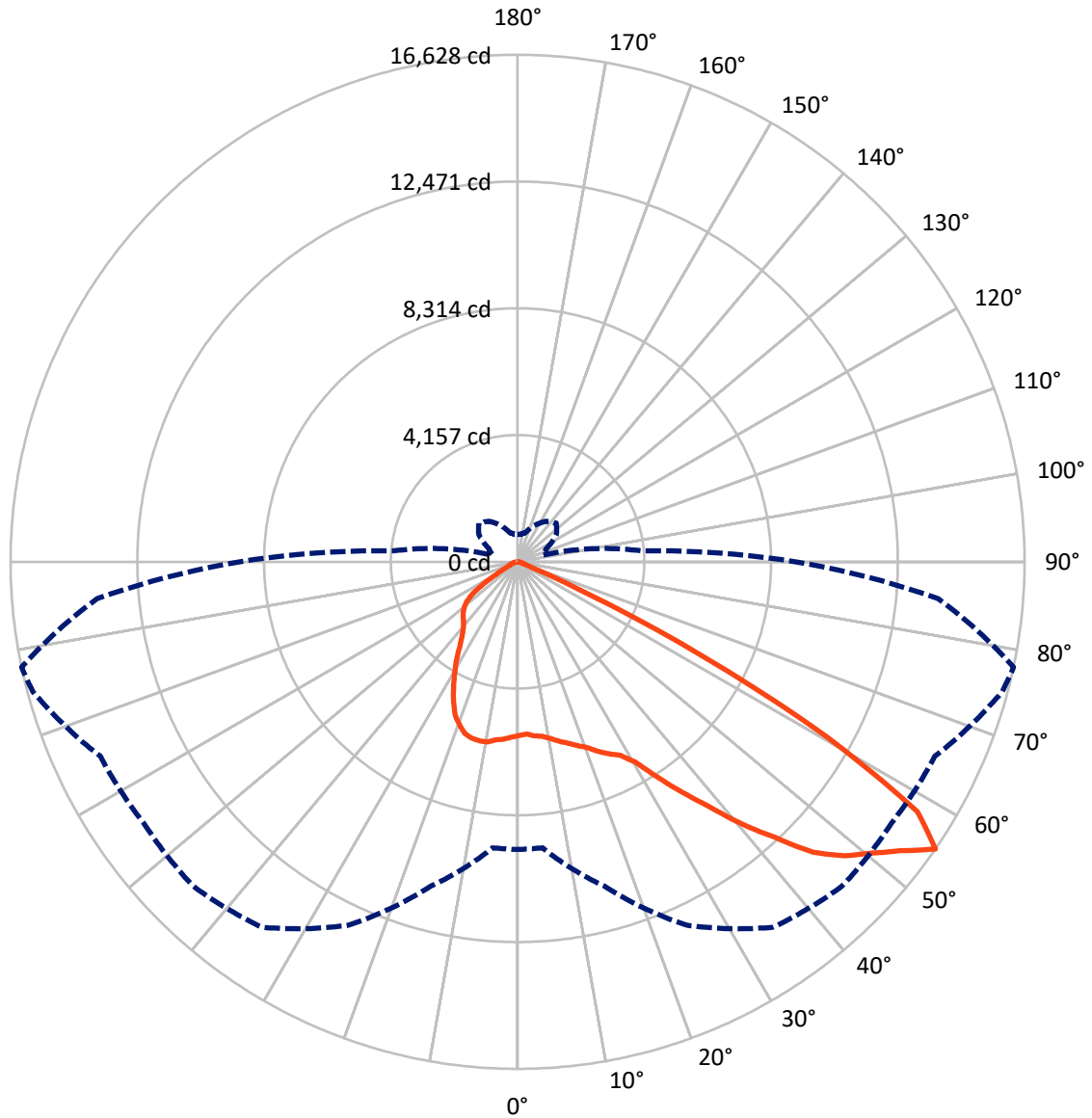
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - N/A

REPORT NUMBER: P531625
CATALOG NUMBER: GLAN-SA6D-830-U-T3R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P531625
 CATALOG NUMBER: GLAN-SA6D-830-U-T3R-GRSBK

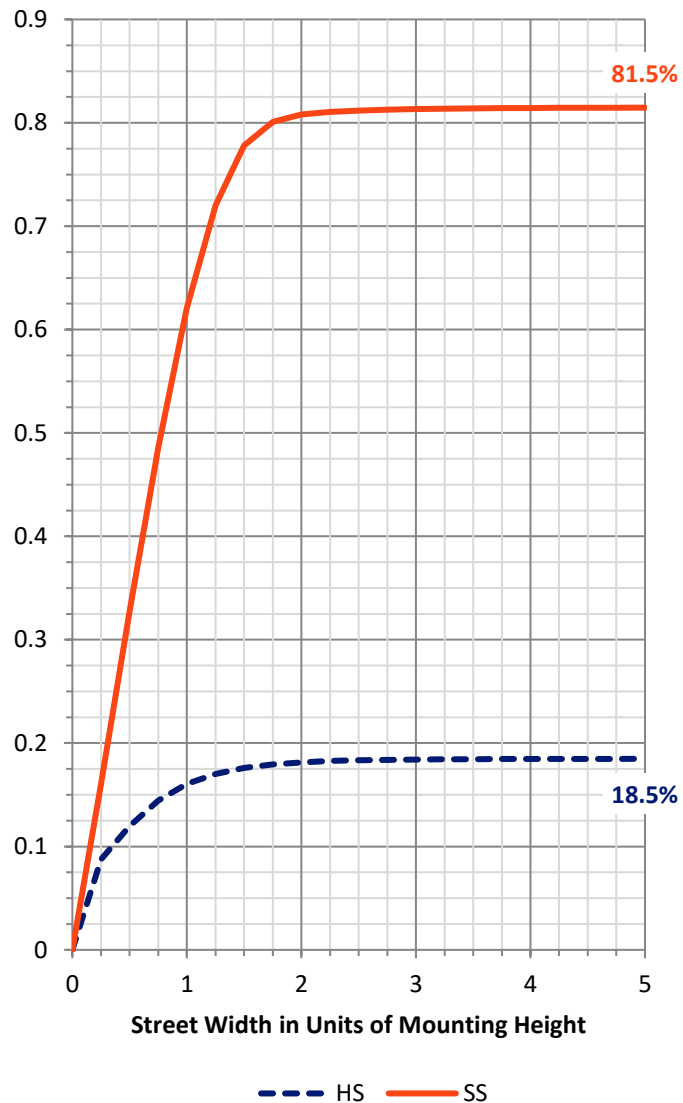
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4117.8 | 0.0 | 4117.8 |
| | % Fixture | 18.6 | 0.0 | 18.6 |
| Street Side | Lumens | 18052.2 | 0.0 | 18052.2 |
| | % Fixture | 81.4 | 0.0 | 81.4 |
| Total | Lumens | 22170.0 | 0.0 | 22170.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 508.3 | 2.3 |
| 10°-20° | 1345.1 | 6.1 |
| 20°-30° | 2357.7 | 10.6 |
| 30°-40° | 3887.6 | 17.5 |
| 40°-50° | 5656.9 | 25.5 |
| 50°-60° | 6409.9 | 28.9 |
| 60°-70° | 1832.7 | 8.3 |
| 70°-80° | 142.3 | 0.6 |
| 80°-90° | 29.6 | 0.1 |
| 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° | 22170.0 | 100.0 |
| 0°-180° | 22170.0 | 100.0 |

Coefficient of Utilization



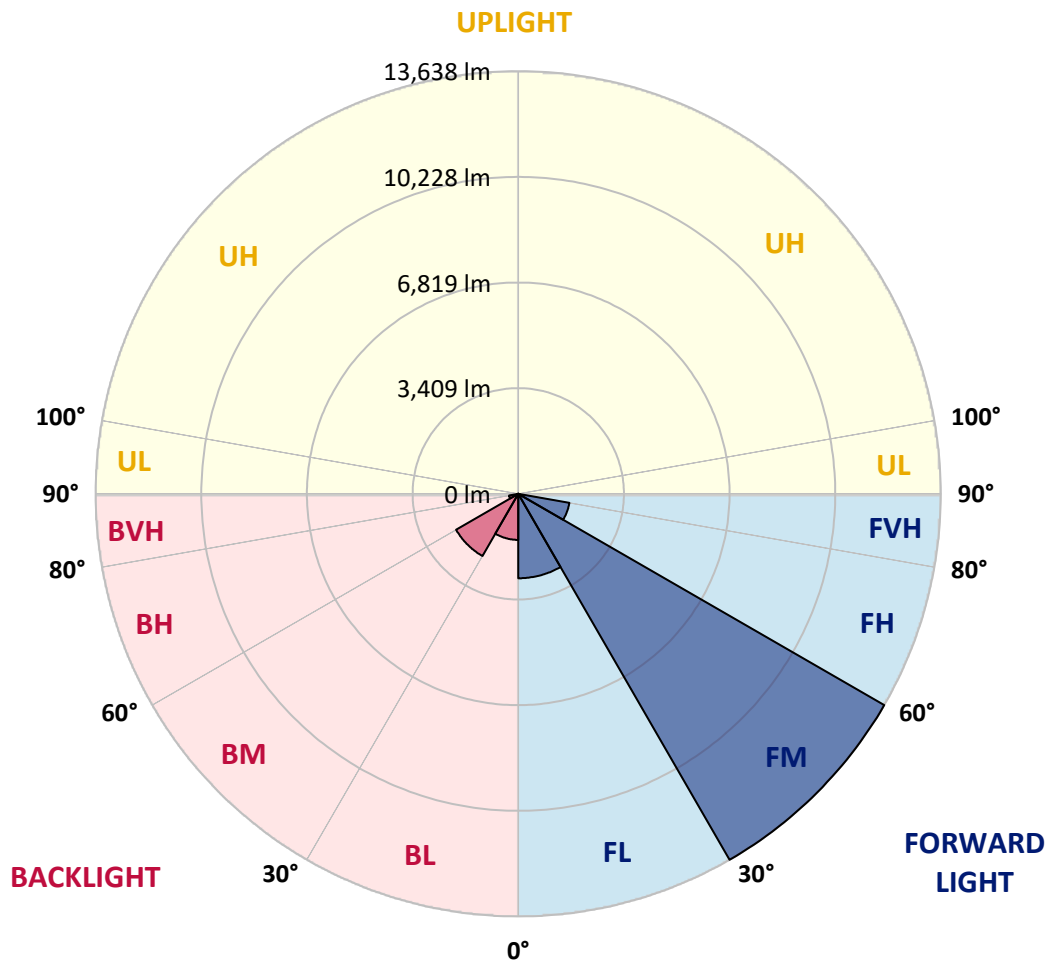
REPORT NUMBER: P531625
 CATALOG NUMBER: GLAN-SA6D-830-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2725.3 | 12.3 | | | |
| FM (30°-60°) | 13638.0 | 61.5 | | | |
| FH (60°-80°) | 1674.4 | 7.6 | | | G1/1800 |
| FVH (80°-90°) | 14.4 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1485.7 | 6.7 | B3/2500 | | |
| BM (30°-60°) | 2316.3 | 10.4 | B2/2500 | | |
| BH (60°-80°) | 300.6 | 1.4 | B1/500 | | G1/500 |
| BVH (80°-90°) | 15.2 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type II Short





REPORT NUMBER: P531625

CATALOG NUMBER: GLAN-SA6D-830-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 78° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5699.9 | 5699.9 | 5699.9 | 5699.9 | 5699.9 | 5699.9 | 5699.9 | 5699.9 | 5699.9 | 5699.9 | 5699.9 |
| 2.5° | 5359.0 | 5410.6 | 5418.5 | 5481.9 | 5477.9 | 5585.0 | 5616.7 | 5620.6 | 5692.0 | 5656.3 | 5747.5 |
| 5° | 5208.4 | 5180.7 | 5168.8 | 5279.8 | 5311.5 | 5406.6 | 5485.9 | 5533.4 | 5680.1 | 5731.6 | 5826.8 |
| 7.5° | 5073.6 | 5073.6 | 5081.6 | 5180.7 | 5168.8 | 5291.7 | 5374.9 | 5521.5 | 5735.6 | 5779.2 | 5894.1 |
| 10° | 4942.8 | 4895.3 | 4954.7 | 5057.8 | 5145.0 | 5200.5 | 5374.9 | 5513.6 | 5763.3 | 5890.2 | 6048.7 |
| 12.5° | 4875.5 | 4899.2 | 4907.2 | 4982.5 | 5077.6 | 5244.1 | 5339.2 | 5569.1 | 5961.5 | 6036.8 | 6207.3 |
| 15° | 5299.6 | 5252.0 | 5137.1 | 5069.7 | 5149.0 | 5228.2 | 5466.1 | 5699.9 | 6064.6 | 6171.6 | 6361.9 |
| 17.5° | 5791.1 | 5751.4 | 5656.3 | 5474.0 | 5295.6 | 5442.3 | 5628.6 | 5842.6 | 6175.6 | 6334.1 | 6615.6 |
| 20° | 6433.2 | 6369.8 | 6274.7 | 5917.9 | 5763.3 | 5604.8 | 5803.0 | 6056.7 | 6357.9 | 6500.6 | 6790.0 |
| 22.5° | 7198.2 | 7198.2 | 6984.2 | 6552.1 | 6231.1 | 6080.4 | 6163.7 | 6310.3 | 6560.1 | 6754.3 | 7039.7 |
| 25° | 7995.0 | 7971.2 | 7776.9 | 7329.0 | 6786.0 | 6607.6 | 6702.8 | 6805.8 | 6873.2 | 6980.2 | 7170.5 |
| 27.5° | 8906.6 | 8767.9 | 8522.1 | 8026.7 | 7547.0 | 7202.2 | 7305.3 | 7214.1 | 7130.8 | 7186.3 | 7459.8 |
| 30° | 9525.0 | 9612.2 | 9299.0 | 8823.4 | 8371.5 | 7987.0 | 8006.8 | 7927.6 | 7547.0 | 7626.3 | 7788.8 |
| 32.5° | 10167.1 | 10222.6 | 10048.2 | 9786.6 | 9334.7 | 8886.8 | 8724.3 | 8656.9 | 8371.5 | 8407.2 | 8248.6 |
| 35° | 10702.2 | 10809.2 | 10654.6 | 10539.7 | 10408.9 | 10048.2 | 9600.3 | 9818.3 | 9358.5 | 9271.3 | 8859.1 |
| 37.5° | 11193.7 | 11162.0 | 11344.3 | 11225.4 | 11197.7 | 10944.0 | 10452.5 | 10496.1 | 10186.9 | 10167.1 | 9691.4 |
| 40° | 11633.7 | 11641.6 | 11891.3 | 11946.8 | 11835.9 | 11384.0 | 10670.5 | 11015.4 | 11265.1 | 11288.9 | 10678.4 |
| 42.5° | 11998.4 | 12105.4 | 12319.4 | 12767.3 | 12600.9 | 11847.7 | 10896.4 | 11273.0 | 12200.5 | 12347.2 | 11613.9 |
| 45° | 12315.5 | 12533.5 | 12799.1 | 13199.4 | 13104.3 | 12505.7 | 11459.3 | 11804.1 | 13199.4 | 13583.9 | 12493.8 |
| 47.5° | 12335.3 | 12620.7 | 12910.0 | 13504.6 | 13623.5 | 12858.5 | 12042.0 | 12644.5 | 13992.2 | 14408.4 | 13136.0 |
| 50° | 12256.0 | 12406.6 | 12985.4 | 13631.4 | 13901.0 | 13433.3 | 12858.5 | 13350.0 | 14761.1 | 15022.7 | 13461.0 |
| 52.5° | 11316.6 | 11431.6 | 12592.9 | 13750.4 | 14400.4 | 14083.3 | 13940.6 | 14333.0 | 15546.0 | 15740.2 | 13766.2 |
| 55° | 9433.8 | 9414.0 | 11011.4 | 13151.8 | 14630.3 | 15046.5 | 14959.3 | 15098.0 | 16453.7 | 16628.1 | 13841.5 |
| 57.5° | 6453.0 | 6813.7 | 8193.1 | 10951.9 | 13223.2 | 14820.6 | 14911.8 | 14681.9 | 15395.3 | 15462.7 | 12065.8 |
| 60° | 3480.2 | 3630.8 | 4740.7 | 7309.2 | 10068.0 | 12077.6 | 12315.5 | 11899.3 | 11843.8 | 11653.5 | 8613.3 |
| 62.5° | 1383.4 | 1458.7 | 2088.9 | 3618.9 | 5485.9 | 7340.9 | 7852.3 | 7681.8 | 7317.1 | 6817.7 | 4459.3 |
| 65° | 658.0 | 705.6 | 1038.5 | 1692.5 | 2433.8 | 3060.0 | 3571.4 | 3729.9 | 2750.9 | 2477.4 | 1470.6 |
| 67.5° | 447.9 | 483.6 | 757.1 | 967.2 | 868.1 | 907.7 | 1181.2 | 1098.0 | 646.1 | 551.0 | 408.3 |
| 70° | 340.9 | 364.7 | 606.5 | 658.0 | 388.5 | 273.5 | 305.2 | 285.4 | 265.6 | 269.5 | 265.6 |
| 72.5° | 241.8 | 261.6 | 443.9 | 388.5 | 170.4 | 126.8 | 162.5 | 194.2 | 194.2 | 194.2 | 190.3 |
| 75° | 146.7 | 166.5 | 257.6 | 150.6 | 67.4 | 67.4 | 103.1 | 130.8 | 138.7 | 142.7 | 134.8 |
| 77.5° | 75.3 | 95.1 | 87.2 | 43.6 | 43.6 | 51.5 | 75.3 | 91.2 | 99.1 | 99.1 | 95.1 |
| 80° | 15.9 | 15.9 | 15.9 | 23.8 | 43.6 | 55.5 | 75.3 | 83.2 | 95.1 | 95.1 | 87.2 |
| 82.5° | 0.0 | 4.0 | 11.9 | 23.8 | 39.6 | 51.5 | 71.3 | 83.2 | 95.1 | 99.1 | 91.2 |
| 85° | 0.0 | 4.0 | 7.9 | 15.9 | 27.7 | 31.7 | 27.7 | 23.8 | 23.8 | 23.8 | 23.8 |
| 87.5° | 0.0 | 0.0 | 4.0 | 4.0 | 4.0 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 |
| 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: P531625

CATALOG NUMBER: GLAN-SA6D-830-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5699.9 | 5699.9 | 5699.9 | 5699.9 | 5699.9 | 5699.9 | 5699.9 | 5699.9 | 5699.9 | 5699.9 | 5699.9 |
| 2.5° | 5755.4 | 5767.3 | 5747.5 | 5743.5 | 5727.7 | 5775.2 | 5660.3 | 5632.5 | 5703.9 | 5636.5 | 5652.4 |
| 5° | 5830.7 | 5858.5 | 5822.8 | 5763.3 | 5676.1 | 5541.4 | 5426.4 | 5275.8 | 5204.4 | 5152.9 | 5145.0 |
| 7.5° | 5886.2 | 5906.0 | 5870.4 | 5680.1 | 5418.5 | 5077.6 | 4823.9 | 4637.6 | 4491.0 | 4447.4 | 4376.0 |
| 10° | 6112.2 | 6116.1 | 5937.7 | 5517.6 | 5006.3 | 4558.4 | 4169.9 | 3884.5 | 3737.8 | 3646.7 | 3607.0 |
| 12.5° | 6262.8 | 6254.8 | 5894.1 | 5196.5 | 4514.7 | 3920.2 | 3476.2 | 3131.4 | 2996.6 | 2953.0 | 2925.3 |
| 15° | 6453.0 | 6409.4 | 5791.1 | 4867.5 | 3880.5 | 3238.4 | 2838.1 | 2600.2 | 2588.4 | 2560.6 | 2588.4 |
| 17.5° | 6603.7 | 6480.8 | 5640.5 | 4269.0 | 3274.1 | 2667.6 | 2406.0 | 2421.9 | 2453.6 | 2481.3 | 2485.3 |
| 20° | 6849.4 | 6595.7 | 5295.6 | 3745.8 | 2711.2 | 2287.1 | 2283.1 | 2354.5 | 2433.8 | 2465.5 | 2497.2 |
| 22.5° | 7035.7 | 6643.3 | 4927.0 | 3186.9 | 2251.4 | 2132.5 | 2199.9 | 2306.9 | 2366.4 | 2398.1 | 2445.7 |
| 25° | 7103.1 | 6512.5 | 4435.5 | 2628.0 | 2029.5 | 2061.2 | 2164.2 | 2235.6 | 2310.9 | 2346.6 | 2326.7 |
| 27.5° | 7170.5 | 6445.1 | 3848.8 | 2164.2 | 1910.5 | 2013.6 | 2100.8 | 2172.2 | 2195.9 | 2243.5 | 2275.2 |
| 30° | 7333.0 | 6211.2 | 3321.7 | 1870.9 | 1851.1 | 1981.9 | 2045.3 | 2069.1 | 2132.5 | 2160.3 | 2160.3 |
| 32.5° | 7463.8 | 6120.1 | 2762.8 | 1732.2 | 1843.2 | 1997.7 | 2005.7 | 2005.7 | 2013.6 | 1993.8 | 1985.9 |
| 35° | 7733.3 | 5806.9 | 2263.3 | 1648.9 | 1839.2 | 2001.7 | 2021.5 | 1954.1 | 1771.8 | 1700.5 | 1680.6 |
| 37.5° | 8066.3 | 5604.8 | 1894.7 | 1629.1 | 1866.9 | 2049.3 | 2081.0 | 1827.3 | 1589.5 | 1474.5 | 1454.7 |
| 40° | 8470.6 | 5462.1 | 1652.9 | 1621.2 | 1930.4 | 2160.3 | 2065.1 | 1728.2 | 1419.0 | 1252.6 | 1244.6 |
| 42.5° | 8942.3 | 5331.3 | 1490.4 | 1617.2 | 2009.6 | 2275.2 | 2049.3 | 1645.0 | 1244.6 | 1133.6 | 1149.5 |
| 45° | 9318.9 | 5259.9 | 1379.4 | 1589.5 | 2037.4 | 2342.6 | 2061.2 | 1498.3 | 1173.3 | 1101.9 | 1109.9 |
| 47.5° | 9612.2 | 5109.3 | 1288.2 | 1541.9 | 2033.4 | 2366.4 | 1954.1 | 1438.9 | 1137.6 | 1157.4 | 1177.2 |
| 50° | 9620.1 | 4907.2 | 1173.3 | 1438.9 | 1974.0 | 2322.8 | 1831.3 | 1383.4 | 1129.7 | 1212.9 | 1252.6 |
| 52.5° | 9513.1 | 4621.8 | 1050.4 | 1292.2 | 1835.2 | 2172.2 | 1720.3 | 1359.6 | 1094.0 | 1086.1 | 1133.6 |
| 55° | 9132.6 | 4086.7 | 844.3 | 1046.4 | 1549.8 | 1791.6 | 1621.2 | 1316.0 | 987.0 | 895.8 | 903.7 |
| 57.5° | 7380.6 | 2929.2 | 622.3 | 749.2 | 1098.0 | 1312.0 | 1462.6 | 1296.2 | 887.9 | 761.0 | 765.0 |
| 60° | 4570.2 | 1660.8 | 455.8 | 511.3 | 677.8 | 796.7 | 1185.2 | 1205.0 | 792.8 | 642.1 | 634.2 |
| 62.5° | 2346.6 | 820.5 | 352.8 | 360.7 | 416.2 | 467.7 | 812.6 | 1010.8 | 717.4 | 610.4 | 610.4 |
| 65° | 784.8 | 404.3 | 309.2 | 277.5 | 277.5 | 289.4 | 491.5 | 701.6 | 606.5 | 511.3 | 511.3 |
| 67.5° | 336.9 | 301.2 | 269.5 | 241.8 | 222.0 | 210.1 | 277.5 | 408.3 | 451.9 | 388.5 | 372.6 |
| 70° | 261.6 | 253.7 | 233.9 | 202.2 | 174.4 | 158.6 | 162.5 | 210.1 | 257.6 | 249.7 | 241.8 |
| 72.5° | 194.2 | 194.2 | 186.3 | 158.6 | 134.8 | 114.9 | 107.0 | 111.0 | 122.9 | 126.8 | 130.8 |
| 75° | 134.8 | 138.7 | 138.7 | 122.9 | 99.1 | 83.2 | 71.3 | 59.5 | 47.6 | 39.6 | 35.7 |
| 77.5° | 91.2 | 95.1 | 103.1 | 91.2 | 75.3 | 55.5 | 43.6 | 31.7 | 19.8 | 7.9 | 7.9 |
| 80° | 79.3 | 91.2 | 99.1 | 91.2 | 79.3 | 59.5 | 43.6 | 23.8 | 11.9 | 0.0 | 0.0 |
| 82.5° | 83.2 | 91.2 | 103.1 | 87.2 | 75.3 | 55.5 | 43.6 | 27.7 | 11.9 | 4.0 | 0.0 |
| 85° | 19.8 | 19.8 | 23.8 | 27.7 | 35.7 | 39.6 | 31.7 | 19.8 | 11.9 | 4.0 | 0.0 |
| 87.5° | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 4.0 | 4.0 | 4.0 | 4.0 | 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)