

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: P457800

Luminaire Tested: **GLAN-SA9A-830-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9A-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23659 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

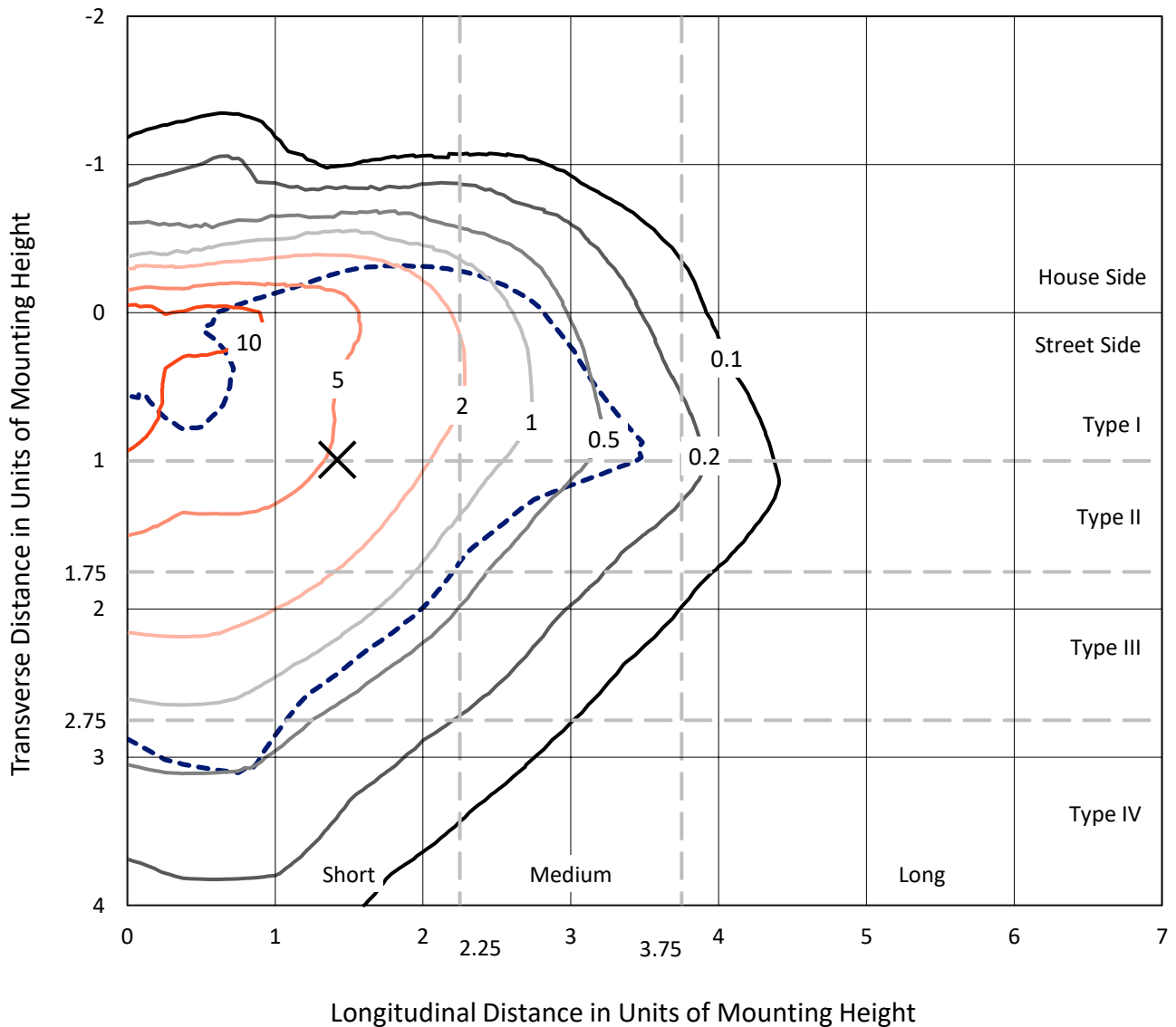
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457800
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Iso-Footcandle Lines of Horizontal Illumination

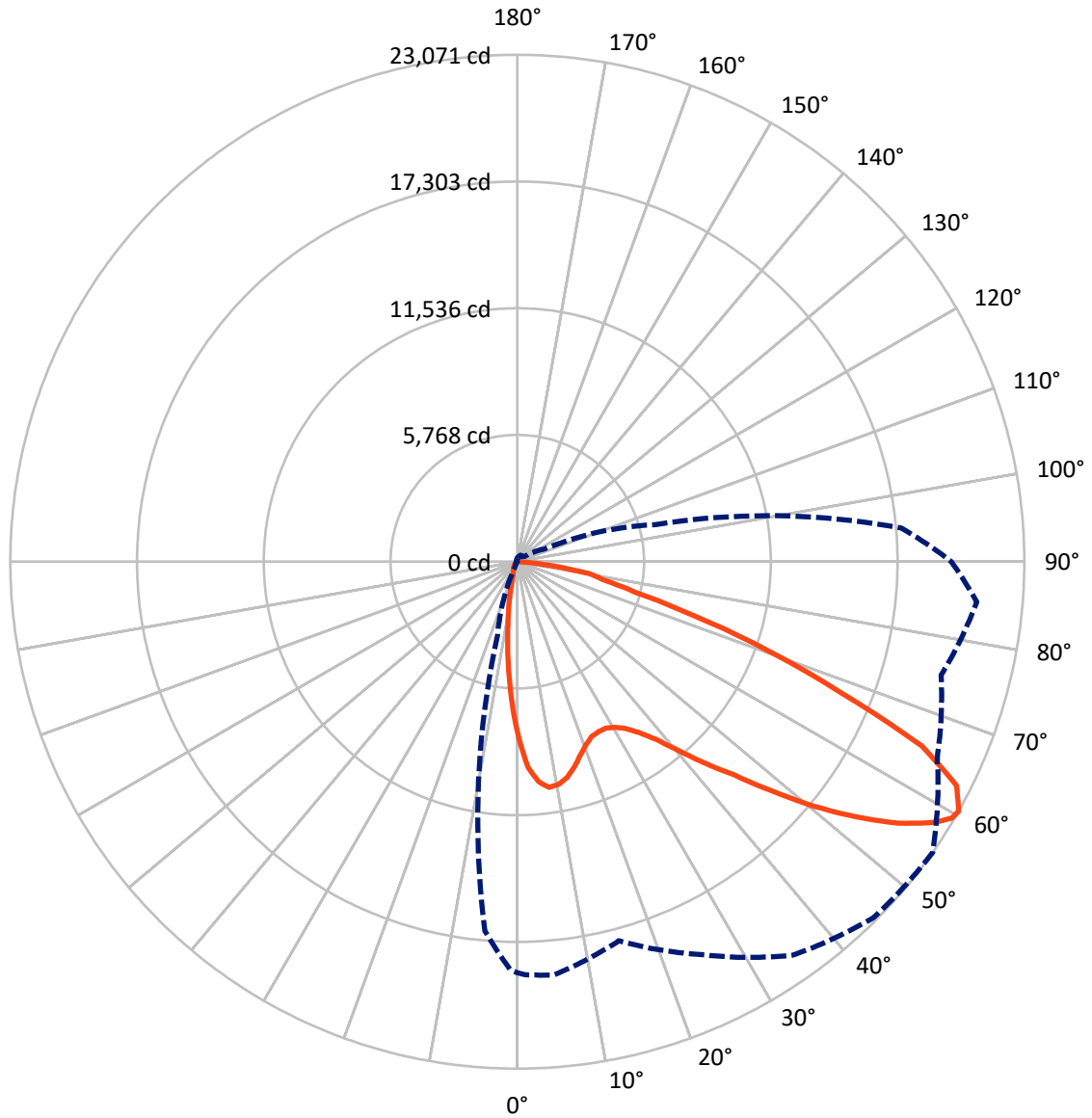
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc
 Type III - Short - N/A

REPORT NUMBER: P457800
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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 3511.2 | 0.0 | 3511.2 |
| | % Fixture | 14.8 | 0.0 | 14.8 |
| Street Side | Lumens | 20147.8 | 0.0 | 20147.8 |
| | % Fixture | 85.2 | 0.0 | 85.2 |
| Total | Lumens | 23659.0 | 0.0 | 23659.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 593.2 | 2.5 |
| 10°-20° | 1168.2 | 4.9 |
| 20°-30° | 1729.1 | 7.3 |
| 30°-40° | 2577.4 | 10.9 |
| 40°-50° | 3774.7 | 16.0 |
| 50°-60° | 5449.5 | 23.0 |
| 60°-70° | 5732.6 | 24.2 |
| 70°-80° | 2358.2 | 10.0 |
| 80°-90° | 276.2 | 1.2 |
| 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° | 23659.0 | 100.0 |
| 0°-180° | 23659.0 | 100.0 |

Coefficient of Utilization

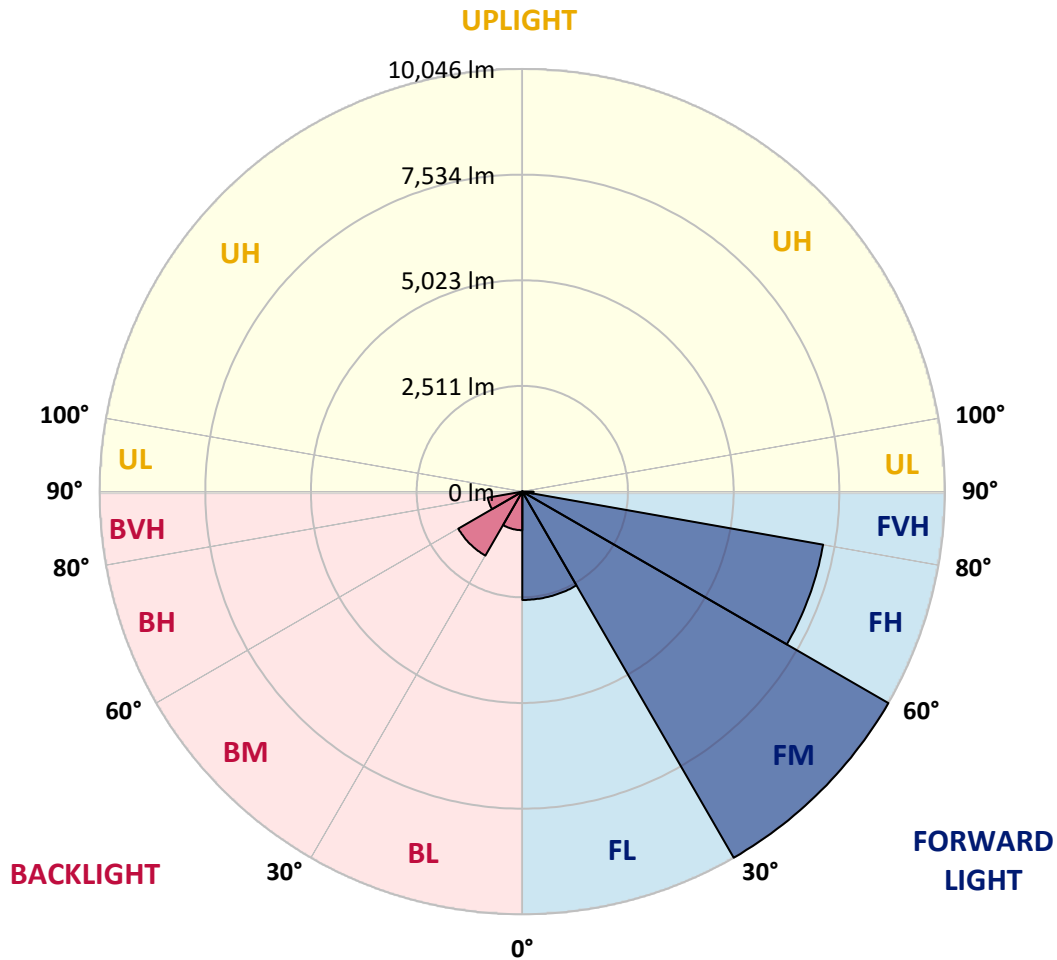


REPORT NUMBER: P457800
 CATALOG NUMBER: GLAN-SA9A-830-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2574.4 | 10.9 | | | |
| FM | (30°-60°) | 10045.6 | 42.5 | | | |
| FH | (60°-80°) | 7259.7 | 30.7 | | | G3/7500 |
| FVH | (80°-90°) | 268.1 | 1.1 | | | G3/500 |
| BL | (0°-30°) | 916.1 | 3.9 | B2/1000 | | |
| BM | (30°-60°) | 1755.9 | 7.4 | B2/2500 | | |
| BH | (60°-80°) | 831.1 | 3.5 | B2/1000 | | G2/1000 |
| BVH | (80°-90°) | 8.1 | 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-G3
 Type III Short





REPORT NUMBER: P457800

CATALOG NUMBER: GLAN-SA9A-830-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

| | 0° | 1° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8010.9 | 8010.9 | 8010.9 | 8010.9 | 8010.9 | 8010.9 | 8010.9 | 8010.9 | 8010.9 | 8010.9 | 8010.9 |
| 2.5° | 8752.0 | 8737.5 | 8866.8 | 9078.0 | 9291.1 | 9402.2 | 9380.3 | 9371.2 | 9194.6 | 9065.3 | 8793.9 |
| 5° | 8733.8 | 8808.5 | 9039.8 | 9611.6 | 10045.0 | 10254.4 | 10316.3 | 10055.9 | 9711.7 | 9212.8 | 8597.3 |
| 7.5° | 8211.2 | 8304.1 | 8681.0 | 9575.2 | 10345.5 | 10800.7 | 10784.4 | 10367.3 | 9657.1 | 8885.0 | 8007.2 |
| 10° | 7562.9 | 7672.2 | 8114.7 | 9200.0 | 10199.8 | 10800.7 | 10833.5 | 10305.4 | 9422.2 | 8431.5 | 7508.3 |
| 12.5° | 7105.8 | 7235.1 | 7725.0 | 8850.4 | 9824.7 | 10416.5 | 10454.7 | 10072.3 | 9245.6 | 8256.7 | 7236.9 |
| 15° | 6951.0 | 7073.0 | 7570.2 | 8673.7 | 9425.8 | 9744.5 | 9735.4 | 9695.4 | 9176.4 | 8298.6 | 7251.5 |
| 17.5° | 7216.9 | 7317.0 | 7877.9 | 8753.9 | 9052.5 | 9019.7 | 9067.1 | 9260.1 | 9190.9 | 8650.1 | 7710.4 |
| 20° | 7903.4 | 8005.4 | 8608.2 | 8999.7 | 8766.6 | 8559.0 | 8580.9 | 8903.2 | 9325.7 | 9311.1 | 8427.9 |
| 22.5° | 8848.6 | 9021.6 | 9567.9 | 9476.8 | 8728.4 | 8273.1 | 8227.6 | 8646.4 | 9555.1 | 10072.3 | 9396.7 |
| 25° | 10045.0 | 10219.8 | 10646.0 | 10238.0 | 8915.9 | 8205.7 | 8163.8 | 8568.1 | 9833.8 | 10815.3 | 10487.5 |
| 27.5° | 11050.2 | 11183.2 | 11607.5 | 10979.2 | 9192.7 | 8234.9 | 8165.7 | 8579.0 | 10059.6 | 11447.2 | 11407.2 |
| 30° | 11855.1 | 11953.5 | 12203.0 | 11325.2 | 9431.3 | 8362.3 | 8282.2 | 8739.3 | 10159.7 | 11755.0 | 12152.0 |
| 32.5° | 12503.4 | 12669.2 | 12747.5 | 11694.9 | 9773.7 | 8602.7 | 8466.1 | 9047.1 | 10403.8 | 12135.6 | 12933.2 |
| 35° | 13244.6 | 13435.8 | 13335.7 | 12048.2 | 10225.3 | 8977.9 | 8810.3 | 9546.0 | 10773.4 | 12487.1 | 13840.1 |
| 37.5° | 14184.3 | 14404.6 | 14013.1 | 12419.7 | 10702.4 | 9542.4 | 9464.1 | 10247.1 | 11334.3 | 12989.7 | 14812.6 |
| 40° | 15156.7 | 15284.2 | 14670.5 | 12871.3 | 11288.8 | 10363.7 | 10438.4 | 11288.8 | 12068.2 | 13592.4 | 15846.9 |
| 42.5° | 15916.1 | 16036.3 | 15346.1 | 13250.1 | 11887.9 | 11338.0 | 11649.4 | 12545.3 | 12909.5 | 14209.8 | 16619.1 |
| 45° | 16497.0 | 16599.0 | 15814.1 | 13663.5 | 12696.5 | 12749.3 | 13337.5 | 13840.1 | 13752.7 | 14586.7 | 17214.5 |
| 47.5° | 16948.7 | 17036.1 | 16174.7 | 14107.8 | 13907.5 | 14475.7 | 15375.3 | 15588.3 | 14626.8 | 14994.7 | 17753.6 |
| 50° | 17134.4 | 17159.9 | 16287.6 | 14674.2 | 15282.4 | 16675.5 | 17613.4 | 17484.1 | 15628.4 | 15448.1 | 18327.2 |
| 52.5° | 17376.6 | 17371.2 | 16609.9 | 15213.2 | 16575.3 | 18642.3 | 19578.3 | 19285.1 | 16761.1 | 16127.4 | 18971.9 |
| 55° | 18012.2 | 18019.5 | 17300.1 | 15978.0 | 17677.1 | 20230.2 | 21231.8 | 21018.8 | 17955.7 | 17274.6 | 19724.0 |
| 57.5° | 18784.3 | 18811.6 | 18281.7 | 16872.2 | 18729.7 | 21381.1 | 22466.5 | 22384.6 | 19571.0 | 18551.2 | 20434.2 |
| 59° | 18884.5 | 18939.1 | 18746.1 | 17502.3 | 19354.3 | 21734.4 | 22889.0 | 22969.1 | 20436.0 | 19392.5 | 20818.4 |
| 60° | 18702.4 | 18793.4 | 18880.8 | 17859.2 | 19720.3 | 21861.9 | 22914.5 | 23071.1 | 21086.1 | 19964.4 | 20993.3 |
| 62.5° | 17908.4 | 18052.2 | 18491.1 | 18957.3 | 20177.4 | 21464.9 | 22100.5 | 22428.3 | 21891.0 | 21466.7 | 21009.6 |
| 65° | 16868.5 | 16943.2 | 17576.9 | 19152.2 | 19290.6 | 19611.1 | 19807.7 | 20228.4 | 20924.1 | 22045.8 | 20257.5 |
| 67.5° | 15164.0 | 15384.4 | 16160.1 | 18021.3 | 16673.7 | 16294.9 | 16245.7 | 15826.9 | 17633.4 | 20665.5 | 18403.7 |
| 70° | 12527.1 | 12625.5 | 13581.5 | 14774.3 | 12583.6 | 12000.8 | 12233.9 | 12077.3 | 13668.9 | 17790.0 | 14812.6 |
| 72.5° | 9473.2 | 9695.4 | 10629.6 | 11776.8 | 8562.7 | 7806.9 | 8449.7 | 8391.5 | 10267.2 | 14297.2 | 10176.1 |
| 75° | 6739.8 | 6883.6 | 8074.6 | 9216.4 | 5996.8 | 5080.8 | 5312.1 | 5528.8 | 7167.7 | 11288.8 | 6013.2 |
| 77.5° | 4631.0 | 4754.8 | 5648.9 | 6095.1 | 4374.2 | 4190.3 | 3833.3 | 4042.8 | 4696.5 | 6697.9 | 3272.5 |
| 80° | 2793.5 | 2788.1 | 3376.3 | 3485.5 | 3046.6 | 3538.3 | 2968.3 | 3332.6 | 2839.0 | 2866.4 | 1267.5 |
| 82.5° | 1813.8 | 1795.6 | 2065.1 | 2250.8 | 1695.4 | 1782.8 | 1196.4 | 1724.6 | 1850.2 | 799.4 | 400.6 |
| 85° | 812.2 | 846.8 | 992.5 | 1309.3 | 743.0 | 395.2 | 244.0 | 529.9 | 788.5 | 402.5 | 0.0 |
| 87.5° | 83.8 | 65.6 | 174.8 | 318.7 | 102.0 | 10.9 | 36.4 | 18.2 | 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: P457800

CATALOG NUMBER: GLAN-SA9A-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8010.9 | 8010.9 | 8010.9 | 8010.9 | 8010.9 | 8010.9 | 8010.9 | 8010.9 | 8010.9 | 8010.9 | 8010.9 |
| 2.5° | 8668.3 | 8562.7 | 8247.6 | 7952.6 | 7699.5 | 7389.9 | 7189.6 | 6874.5 | 6683.3 | 6625.0 | 6634.1 |
| 5° | 8320.5 | 8016.3 | 7417.2 | 6938.3 | 6404.7 | 6100.6 | 5638.0 | 5193.7 | 4953.3 | 4864.1 | 4824.0 |
| 7.5° | 7592.0 | 7266.1 | 6543.1 | 5791.0 | 5219.2 | 4685.6 | 4341.4 | 3949.9 | 3682.2 | 3461.8 | 3423.6 |
| 10° | 7051.2 | 6623.2 | 5727.3 | 4918.7 | 4467.1 | 4066.4 | 3722.3 | 3330.7 | 3015.7 | 2764.4 | 2695.2 |
| 12.5° | 6727.0 | 6248.1 | 5248.3 | 4570.9 | 4142.9 | 3731.4 | 3283.4 | 2829.9 | 2507.6 | 2236.3 | 2110.6 |
| 15° | 6668.7 | 6113.3 | 5113.6 | 4321.4 | 3793.3 | 3296.1 | 2700.6 | 2210.8 | 1879.3 | 1622.6 | 1544.3 |
| 17.5° | 7020.2 | 6355.5 | 5093.5 | 4061.0 | 3336.2 | 2631.4 | 2012.3 | 1606.2 | 1232.9 | 1089.0 | 1032.5 |
| 20° | 7646.7 | 6783.5 | 5091.7 | 3758.7 | 2866.4 | 2026.8 | 1413.1 | 1047.1 | 896.0 | 826.8 | 794.0 |
| 22.5° | 8500.7 | 7366.2 | 5188.2 | 3498.3 | 2378.3 | 1495.1 | 1008.9 | 834.0 | 746.6 | 690.2 | 677.4 |
| 25° | 9544.2 | 8229.4 | 5425.0 | 3321.6 | 2005.0 | 1172.8 | 832.2 | 713.9 | 641.0 | 615.5 | 604.6 |
| 27.5° | 10471.1 | 9056.2 | 5685.4 | 3139.5 | 1737.3 | 1038.0 | 772.1 | 653.8 | 595.5 | 575.5 | 559.1 |
| 30° | 11270.6 | 9806.4 | 5811.0 | 2899.1 | 1522.4 | 950.6 | 783.1 | 699.3 | 622.8 | 562.7 | 535.4 |
| 32.5° | 11937.1 | 10381.9 | 5893.0 | 2680.6 | 1340.3 | 777.6 | 619.2 | 540.9 | 506.3 | 484.4 | 466.2 |
| 35° | 12771.1 | 11004.7 | 5843.8 | 2556.8 | 1247.4 | 708.4 | 564.5 | 466.2 | 407.9 | 364.2 | 346.0 |
| 37.5° | 13645.3 | 11627.5 | 5758.2 | 2454.8 | 1205.5 | 657.4 | 537.2 | 442.5 | 378.8 | 333.3 | 309.6 |
| 40° | 14550.3 | 12204.8 | 5658.1 | 2360.1 | 1167.3 | 624.6 | 520.8 | 422.5 | 358.8 | 309.6 | 284.1 |
| 42.5° | 15378.9 | 12767.5 | 5618.0 | 2298.2 | 1105.4 | 630.1 | 508.1 | 413.4 | 338.7 | 287.7 | 265.9 |
| 45° | 16049.1 | 13301.1 | 5672.6 | 2265.4 | 1038.0 | 621.0 | 511.7 | 402.5 | 322.3 | 273.2 | 251.3 |
| 47.5° | 16764.7 | 14055.0 | 5849.3 | 2232.6 | 972.4 | 577.3 | 539.0 | 400.6 | 315.0 | 264.1 | 240.4 |
| 50° | 17597.0 | 15020.2 | 6253.5 | 2152.5 | 892.3 | 529.9 | 573.6 | 398.8 | 305.9 | 253.1 | 229.5 |
| 52.5° | 18706.0 | 16116.4 | 6670.6 | 2012.3 | 775.8 | 484.4 | 548.1 | 393.4 | 287.7 | 240.4 | 216.7 |
| 55° | 19702.1 | 17271.0 | 7023.9 | 1846.6 | 628.3 | 418.8 | 493.5 | 369.7 | 256.8 | 218.5 | 196.7 |
| 57.5° | 20113.7 | 17922.9 | 7012.9 | 1617.1 | 502.6 | 367.9 | 406.1 | 338.7 | 224.0 | 193.0 | 174.8 |
| 59° | 19962.5 | 17841.0 | 6778.0 | 1447.7 | 458.9 | 340.5 | 336.9 | 335.1 | 209.4 | 174.8 | 160.3 |
| 60° | 19749.5 | 17542.3 | 6524.9 | 1364.0 | 431.6 | 322.3 | 309.6 | 331.4 | 196.7 | 163.9 | 149.3 |
| 62.5° | 18933.6 | 16304.0 | 5685.4 | 1221.9 | 395.2 | 273.2 | 247.7 | 280.4 | 174.8 | 142.0 | 129.3 |
| 65° | 17751.8 | 14401.0 | 4813.1 | 1181.9 | 384.2 | 225.8 | 205.8 | 200.3 | 149.3 | 120.2 | 109.3 |
| 67.5° | 15446.3 | 12186.6 | 3898.9 | 1154.6 | 387.9 | 189.4 | 180.3 | 151.1 | 123.8 | 100.2 | 92.9 |
| 70° | 12366.9 | 9502.3 | 3192.3 | 1123.6 | 391.5 | 154.8 | 151.1 | 120.2 | 100.2 | 83.8 | 76.5 |
| 72.5° | 7513.7 | 5632.6 | 2513.1 | 976.1 | 380.6 | 123.8 | 134.8 | 91.1 | 72.8 | 60.1 | 56.5 |
| 75° | 4645.5 | 3855.2 | 1558.8 | 759.4 | 251.3 | 91.1 | 94.7 | 56.5 | 49.2 | 38.2 | 38.2 |
| 77.5° | 2691.5 | 2434.8 | 557.2 | 273.2 | 111.1 | 54.6 | 41.9 | 29.1 | 27.3 | 16.4 | 16.4 |
| 80° | 1116.3 | 894.1 | 193.0 | 92.9 | 60.1 | 25.5 | 9.1 | 1.8 | 0.0 | 0.0 | 0.0 |
| 82.5° | 326.0 | 289.5 | 52.8 | 41.9 | 18.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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 |



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CATALOG NUMBER: GLAN-SA9A-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

| | 185° | 195° | 205° | 215° | 225° | 235° | 245° | 255° | 265° | 270° | 275° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8010.9 | 8010.9 | 8010.9 | 8010.9 | 8010.9 | 8010.9 | 8010.9 | 8010.9 | 8010.9 | 8010.9 | 8010.9 |
| 2.5° | 6479.4 | 6419.3 | 6391.9 | 6484.8 | 6399.2 | 6508.5 | 6424.7 | 6461.1 | 6568.6 | 6615.9 | 6737.9 |
| 5° | 4849.5 | 4787.6 | 4758.4 | 4898.7 | 4891.4 | 4960.6 | 4953.3 | 5017.0 | 5071.7 | 4949.7 | 5075.3 |
| 7.5° | 3378.1 | 3336.2 | 3405.4 | 3514.7 | 3631.2 | 3593.0 | 3593.0 | 3507.4 | 3536.5 | 3518.3 | 3512.8 |
| 10° | 2569.5 | 2425.7 | 2389.2 | 2385.6 | 2429.3 | 2438.4 | 2389.2 | 2270.9 | 2314.6 | 2327.3 | 2403.8 |
| 12.5° | 2021.4 | 1910.3 | 1740.9 | 1664.5 | 1644.4 | 1660.8 | 1498.7 | 1394.9 | 1444.1 | 1415.0 | 1489.6 |
| 15° | 1449.6 | 1358.5 | 1258.4 | 1172.8 | 1149.1 | 1116.3 | 939.7 | 815.8 | 801.3 | 806.7 | 819.5 |
| 17.5° | 1034.4 | 972.4 | 972.4 | 881.4 | 832.2 | 733.9 | 644.7 | 590.0 | 584.6 | 590.0 | 599.1 |
| 20° | 763.0 | 730.2 | 726.6 | 702.9 | 648.3 | 582.7 | 520.8 | 509.9 | 506.3 | 515.4 | 519.0 |
| 22.5° | 657.4 | 622.8 | 593.7 | 591.8 | 540.9 | 486.2 | 457.1 | 442.5 | 444.3 | 448.0 | 457.1 |
| 25° | 588.2 | 551.8 | 520.8 | 502.6 | 466.2 | 428.0 | 400.6 | 393.4 | 393.4 | 398.8 | 400.6 |
| 27.5° | 539.0 | 493.5 | 466.2 | 440.7 | 407.9 | 375.1 | 351.5 | 346.0 | 342.4 | 346.0 | 355.1 |
| 30° | 504.4 | 458.9 | 424.3 | 386.1 | 360.6 | 329.6 | 309.6 | 302.3 | 300.5 | 302.3 | 309.6 |
| 32.5° | 431.6 | 404.3 | 377.0 | 342.4 | 311.4 | 291.4 | 269.5 | 256.8 | 256.8 | 260.4 | 267.7 |
| 35° | 326.0 | 311.4 | 309.6 | 300.5 | 275.0 | 253.1 | 227.6 | 214.9 | 214.9 | 222.2 | 225.8 |
| 37.5° | 287.7 | 260.4 | 256.8 | 253.1 | 242.2 | 213.1 | 189.4 | 178.5 | 176.6 | 182.1 | 189.4 |
| 40° | 262.2 | 231.3 | 214.9 | 211.2 | 213.1 | 180.3 | 154.8 | 143.9 | 143.9 | 145.7 | 153.0 |
| 42.5° | 242.2 | 205.8 | 176.6 | 173.0 | 180.3 | 151.1 | 125.7 | 114.7 | 114.7 | 114.7 | 123.8 |
| 45° | 225.8 | 183.9 | 149.3 | 131.1 | 142.0 | 123.8 | 102.0 | 91.1 | 87.4 | 91.1 | 94.7 |
| 47.5° | 214.9 | 167.5 | 131.1 | 105.6 | 105.6 | 98.3 | 81.9 | 69.2 | 65.6 | 67.4 | 72.8 |
| 50° | 205.8 | 153.0 | 111.1 | 85.6 | 76.5 | 78.3 | 61.9 | 52.8 | 49.2 | 49.2 | 54.6 |
| 52.5° | 191.2 | 138.4 | 96.5 | 72.8 | 58.3 | 52.8 | 45.5 | 38.2 | 36.4 | 38.2 | 41.9 |
| 55° | 173.0 | 125.7 | 83.8 | 60.1 | 45.5 | 36.4 | 32.8 | 27.3 | 25.5 | 27.3 | 32.8 |
| 57.5° | 153.0 | 105.6 | 67.4 | 47.3 | 31.0 | 23.7 | 21.9 | 18.2 | 14.6 | 16.4 | 20.0 |
| 59° | 140.2 | 94.7 | 58.3 | 38.2 | 23.7 | 16.4 | 16.4 | 12.7 | 9.1 | 10.9 | 16.4 |
| 60° | 134.8 | 87.4 | 49.2 | 32.8 | 20.0 | 12.7 | 12.7 | 9.1 | 5.5 | 7.3 | 12.7 |
| 62.5° | 114.7 | 72.8 | 38.2 | 20.0 | 9.1 | 1.8 | 5.5 | 1.8 | 0.0 | 1.8 | 5.5 |
| 65° | 96.5 | 58.3 | 25.5 | 9.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 |
| 67.5° | 80.1 | 43.7 | 12.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 63.7 | 29.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 43.7 | 16.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 27.3 | 5.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 10.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 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 |



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| 2.5° | 6745.2 | 7005.6 | 7165.9 | 7468.2 | 7777.8 | 8016.3 | 8315.0 | 8582.7 | 8693.8 | 8752.0 |
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| 22.5° | 478.9 | 524.5 | 599.1 | 764.8 | 1482.3 | 3081.2 | 5179.1 | 7626.6 | 8555.4 | 8848.6 |
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| 27.5° | 375.1 | 417.0 | 473.5 | 559.1 | 766.7 | 2076.0 | 5608.9 | 9567.9 | 10788.0 | 11050.2 |
| 30° | 331.4 | 366.0 | 420.7 | 486.2 | 637.4 | 1600.7 | 5710.9 | 10405.6 | 11563.8 | 11855.1 |
| 32.5° | 287.7 | 320.5 | 373.3 | 426.1 | 524.5 | 1220.1 | 5639.8 | 11021.1 | 12317.7 | 12503.4 |
| 35° | 245.8 | 280.4 | 324.1 | 373.3 | 453.4 | 985.2 | 5284.7 | 11713.1 | 13098.9 | 13244.6 |
| 37.5° | 211.2 | 240.4 | 285.9 | 324.1 | 409.7 | 788.5 | 4855.0 | 12335.9 | 13974.9 | 14184.3 |
| 40° | 178.5 | 207.6 | 253.1 | 287.7 | 377.0 | 621.0 | 4467.1 | 13027.9 | 14898.1 | 15156.7 |
| 42.5° | 145.7 | 180.3 | 220.3 | 276.8 | 324.1 | 473.5 | 3997.2 | 13588.8 | 15592.0 | 15916.1 |
| 45° | 116.5 | 154.8 | 198.5 | 275.0 | 282.3 | 360.6 | 3543.8 | 14025.9 | 16205.7 | 16497.0 |
| 47.5° | 92.9 | 131.1 | 191.2 | 256.8 | 231.3 | 285.9 | 3285.2 | 14482.9 | 16715.6 | 16948.7 |
| 50° | 74.7 | 109.3 | 200.3 | 225.8 | 193.0 | 242.2 | 3277.9 | 14992.8 | 16979.6 | 17134.4 |
| 52.5° | 60.1 | 89.2 | 169.4 | 173.0 | 163.9 | 213.1 | 3474.6 | 15566.5 | 17249.1 | 17376.6 |
| 55° | 51.0 | 74.7 | 111.1 | 127.5 | 147.5 | 193.0 | 3622.1 | 16449.7 | 17892.0 | 18012.2 |
| 57.5° | 40.1 | 63.7 | 85.6 | 102.0 | 131.1 | 176.6 | 3642.1 | 17130.8 | 18706.0 | 18784.3 |
| 59° | 34.6 | 54.6 | 76.5 | 91.1 | 120.2 | 165.7 | 3560.2 | 17172.7 | 18758.8 | 18884.5 |
| 60° | 29.1 | 49.2 | 67.4 | 85.6 | 111.1 | 156.6 | 3471.0 | 16868.5 | 18562.1 | 18702.4 |
| 62.5° | 21.9 | 38.2 | 49.2 | 69.2 | 91.1 | 134.8 | 3048.5 | 15806.9 | 17810.0 | 17908.4 |
| 65° | 14.6 | 27.3 | 36.4 | 51.0 | 71.0 | 116.5 | 2483.9 | 14430.1 | 16648.2 | 16868.5 |
| 67.5° | 9.1 | 20.0 | 29.1 | 38.2 | 58.3 | 98.3 | 1770.1 | 12374.1 | 15022.0 | 15164.0 |
| 70° | 5.5 | 12.7 | 21.9 | 31.0 | 45.5 | 78.3 | 1050.8 | 9780.9 | 12498.0 | 12527.1 |
| 72.5° | 3.6 | 9.1 | 14.6 | 21.9 | 36.4 | 71.0 | 509.9 | 6375.6 | 9125.4 | 9473.2 |
| 75° | 1.8 | 5.5 | 9.1 | 16.4 | 29.1 | 58.3 | 244.0 | 4259.5 | 6639.6 | 6739.8 |
| 77.5° | 0.0 | 1.8 | 5.5 | 10.9 | 21.9 | 45.5 | 142.0 | 2797.2 | 4527.2 | 4631.0 |
| 80° | 0.0 | 0.0 | 3.6 | 9.1 | 16.4 | 29.1 | 85.6 | 1649.9 | 2742.5 | 2793.5 |
| 82.5° | 0.0 | 0.0 | 1.8 | 7.3 | 10.9 | 21.9 | 43.7 | 724.8 | 1795.6 | 1813.8 |
| 85° | 0.0 | 0.0 | 1.8 | 7.3 | 9.1 | 14.6 | 16.4 | 98.3 | 797.6 | 812.2 |
| 87.5° | 0.0 | 0.0 | 1.8 | 9.1 | 9.1 | 9.1 | 9.1 | 5.5 | 67.4 | 83.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)