

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: P454559

Luminaire Tested: **GLAN-SA5C-830-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5C-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22399 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

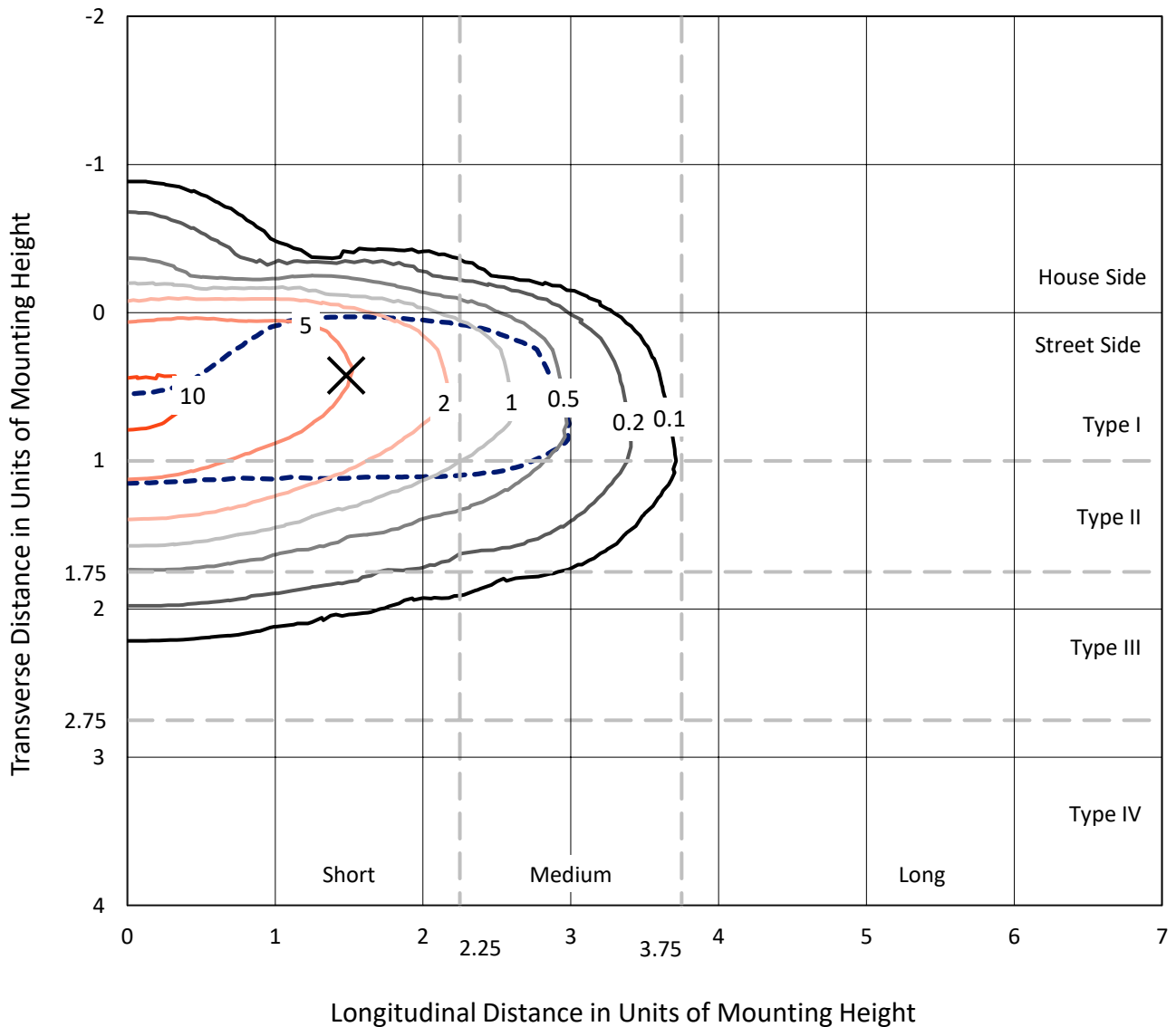
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

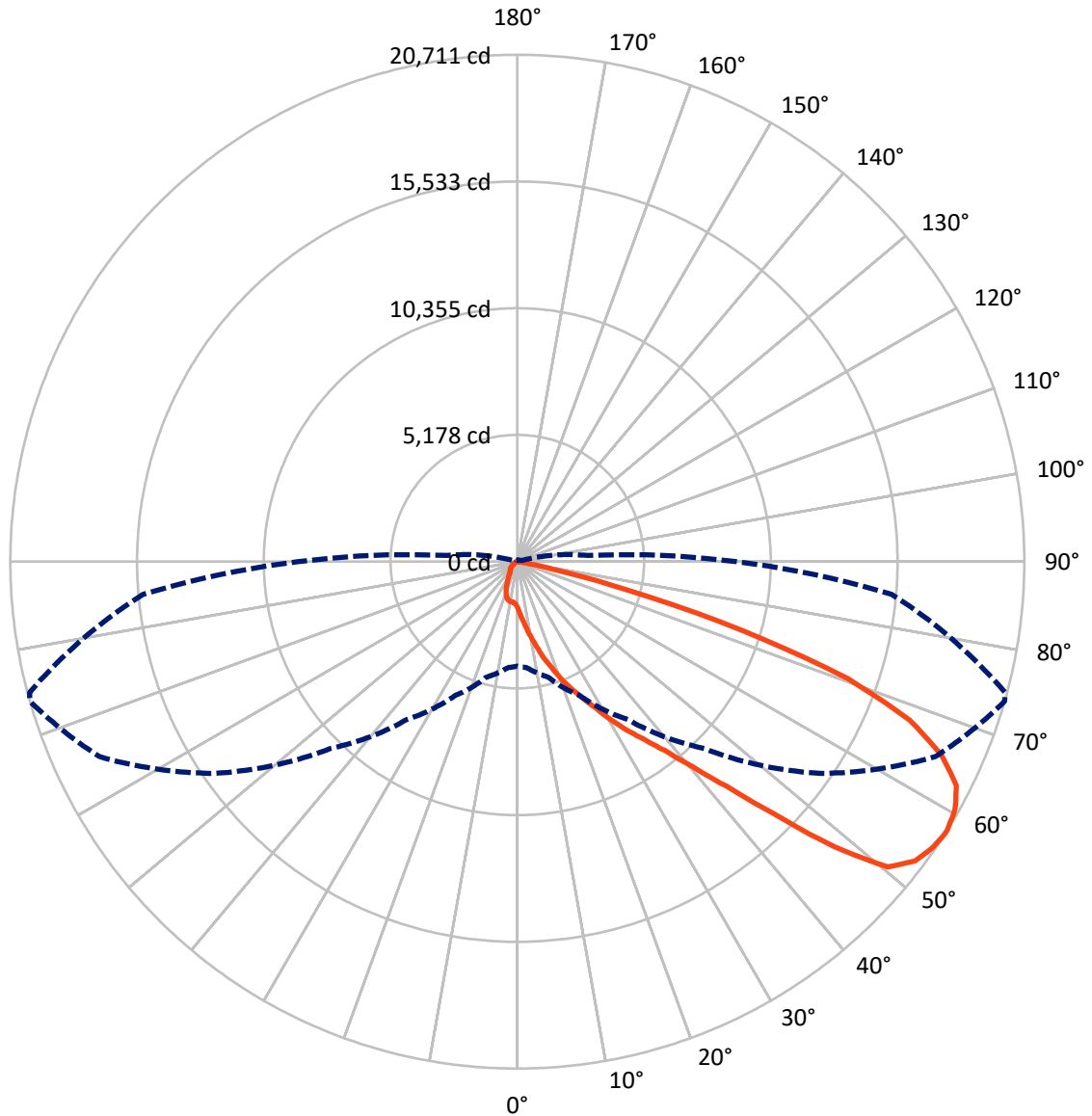
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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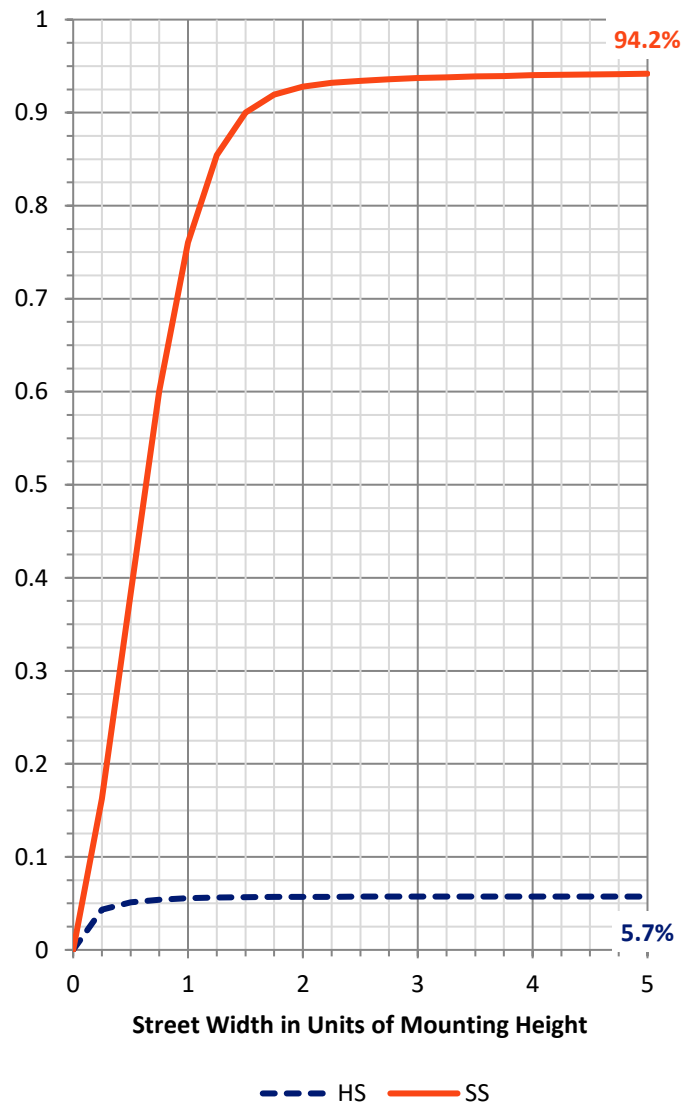
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1291.9 | 0.0 | 1291.9 |
| | % Fixture | 5.8 | 0.0 | 5.8 |
| Street Side | Lumens | 21107.1 | 0.0 | 21107.1 |
| | % Fixture | 94.2 | 0.0 | 94.2 |
| Total | Lumens | 22399.0 | 0.0 | 22399.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 226.4 | 1.0 |
| 10°-20° | 892.5 | 4.0 |
| 20°-30° | 1909.7 | 8.5 |
| 30°-40° | 3510.0 | 15.7 |
| 40°-50° | 5380.8 | 24.0 |
| 50°-60° | 5692.2 | 25.4 |
| 60°-70° | 3717.1 | 16.6 |
| 70°-80° | 1015.7 | 4.5 |
| 80°-90° | 54.7 | 0.2 |
| 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° | 22399.0 | 100.0 |
| 0°-180° | 22399.0 | 100.0 |



REPORT NUMBER: P454559

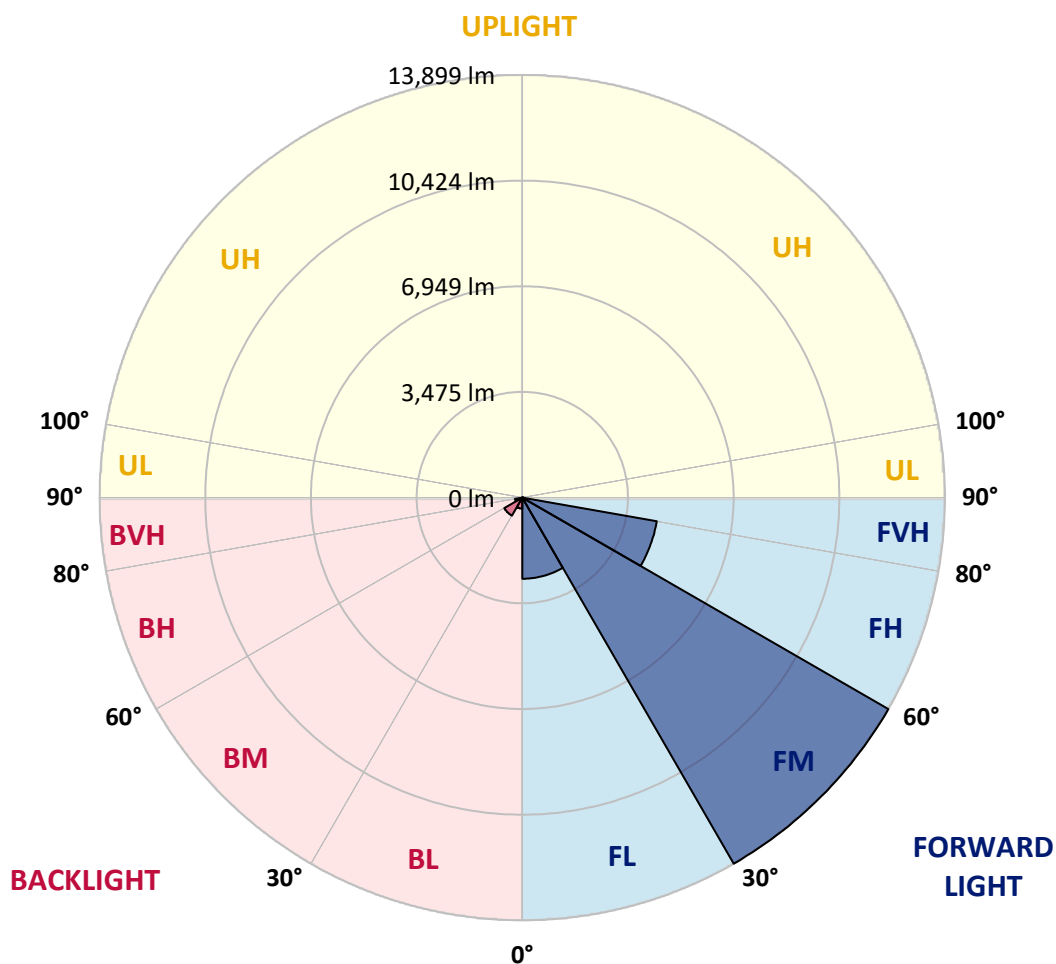
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2667.7 | 11.9 | | | |
| FM (30°-60°) | 13899.0 | 62.1 | | | |
| FH (60°-80°) | 4490.3 | 20.0 | | | G2/5000 |
| FVH (80°-90°) | 50.2 | 0.2 | | | G1/100 |
| BL (0°-30°) | 360.9 | 1.6 | B1/500 | | |
| BM (30°-60°) | 684.0 | 3.1 | B1/1000 | | |
| BH (60°-80°) | 242.5 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 4.5 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 74° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 1875.9 | 1875.9 | 1875.9 | 1875.9 | 1875.9 | 1875.9 | 1875.9 | 1875.9 | 1875.9 | 1875.9 | 1875.9 |
| 2.5° | 2745.0 | 2720.3 | 2670.8 | 2653.8 | 2581.1 | 2468.2 | 2369.2 | 2236.2 | 2131.1 | 2120.2 | 1993.4 |
| 5° | 3676.0 | 3620.3 | 3597.1 | 3485.8 | 3311.0 | 3147.1 | 2865.6 | 2652.2 | 2406.3 | 2387.8 | 2132.6 |
| 7.5° | 4573.0 | 4495.6 | 4472.4 | 4367.3 | 4163.1 | 3904.9 | 3539.9 | 3151.7 | 2762.0 | 2726.5 | 2319.7 |
| 10° | 5222.5 | 5233.3 | 5191.6 | 5122.0 | 4956.5 | 4693.6 | 4243.6 | 3713.1 | 3157.9 | 3113.1 | 2530.1 |
| 12.5° | 5688.0 | 5686.4 | 5694.2 | 5692.6 | 5604.5 | 5405.0 | 4931.7 | 4320.9 | 3594.0 | 3505.9 | 2771.3 |
| 15° | 5991.1 | 5995.7 | 6018.9 | 6099.3 | 6108.6 | 5984.9 | 5590.5 | 4902.4 | 4099.7 | 3989.9 | 3032.7 |
| 17.5° | 6297.3 | 6329.8 | 6366.9 | 6442.7 | 6510.7 | 6461.2 | 6182.8 | 5508.6 | 4557.5 | 4475.5 | 3312.6 |
| 20° | 6803.0 | 6847.8 | 6826.2 | 6872.6 | 6908.2 | 6912.8 | 6697.8 | 6068.4 | 5112.7 | 4975.0 | 3632.7 |
| 22.5° | 7611.8 | 7610.3 | 7554.6 | 7471.1 | 7401.5 | 7398.4 | 7203.5 | 6643.7 | 5616.8 | 5483.8 | 3954.4 |
| 25° | 8634.0 | 8638.7 | 8530.4 | 8292.3 | 8119.0 | 7907.2 | 7682.9 | 7147.9 | 6156.6 | 5992.6 | 4293.0 |
| 27.5° | 9806.3 | 9776.9 | 9613.0 | 9285.1 | 8941.8 | 8579.9 | 8256.7 | 7734.0 | 6728.8 | 6592.7 | 4681.2 |
| 30° | 10859.4 | 10848.6 | 10656.8 | 10256.3 | 9804.7 | 9441.3 | 8972.7 | 8468.6 | 7469.5 | 7302.5 | 5115.8 |
| 32.5° | 11839.9 | 11855.4 | 11589.4 | 11174.9 | 10738.8 | 10319.7 | 9824.8 | 9170.7 | 8196.4 | 7959.8 | 5589.0 |
| 35° | 12605.4 | 12620.9 | 12345.6 | 12000.7 | 11552.2 | 11204.3 | 10732.6 | 9919.2 | 8913.9 | 8714.4 | 6133.4 |
| 37.5° | 13013.7 | 13033.8 | 12874.5 | 12614.7 | 12334.8 | 12160.0 | 11720.8 | 10882.6 | 9786.2 | 9665.5 | 6776.7 |
| 40° | 13091.0 | 13114.2 | 13044.6 | 12975.0 | 12959.5 | 13084.8 | 12956.5 | 12017.7 | 10995.5 | 10806.8 | 7735.5 |
| 42.5° | 12859.0 | 12890.0 | 12920.9 | 13075.5 | 13391.0 | 13850.3 | 14297.3 | 13558.0 | 12552.8 | 12299.2 | 8907.8 |
| 45° | 12249.7 | 12246.6 | 12368.8 | 12769.3 | 13476.1 | 14456.5 | 15698.4 | 15486.5 | 14674.6 | 14373.0 | 10564.0 |
| 47.5° | 11207.4 | 11191.9 | 11456.4 | 12027.0 | 13128.1 | 14567.9 | 16841.2 | 17827.9 | 17382.5 | 17104.1 | 12344.0 |
| 50° | 9619.1 | 9694.9 | 10110.9 | 10907.4 | 12263.6 | 14230.8 | 17193.8 | 19363.5 | 19604.8 | 19309.4 | 13782.3 |
| 52.5° | 7758.7 | 7755.6 | 8408.2 | 9489.2 | 10983.1 | 13488.4 | 16947.9 | 19641.9 | 20327.0 | 20101.2 | 14490.6 |
| 55° | 5742.1 | 5782.3 | 6461.2 | 7551.5 | 9320.7 | 12133.7 | 16145.3 | 19355.8 | 20602.3 | 20443.0 | 14957.6 |
| 57° | 4271.4 | 4342.5 | 4886.9 | 6040.6 | 7873.2 | 10792.9 | 15076.7 | 18843.9 | 20710.5 | 20623.9 | 15345.8 |
| 57.5° | 3986.8 | 3989.9 | 4520.4 | 5568.9 | 7449.4 | 10277.9 | 14770.5 | 18630.5 | 20707.4 | 20659.5 | 15409.2 |
| 60° | 2454.3 | 2531.6 | 2898.1 | 3764.1 | 5452.9 | 8021.6 | 12718.3 | 17404.1 | 20546.6 | 20616.2 | 15679.8 |
| 62.5° | 1469.2 | 1501.6 | 1739.8 | 2268.7 | 3515.2 | 5855.0 | 10407.8 | 15834.5 | 20127.5 | 20339.4 | 15661.3 |
| 65° | 944.9 | 952.6 | 1060.9 | 1373.3 | 2197.6 | 3957.5 | 8020.1 | 13760.6 | 19043.4 | 19433.1 | 15048.9 |
| 67.5° | 729.9 | 742.3 | 785.6 | 901.6 | 1274.3 | 2465.1 | 5672.5 | 11547.6 | 17289.7 | 17792.3 | 13564.2 |
| 70° | 648.0 | 654.2 | 669.6 | 706.7 | 842.8 | 1391.8 | 3529.1 | 9020.7 | 14337.5 | 14479.7 | 10615.1 |
| 72.5° | 528.9 | 545.9 | 593.9 | 606.2 | 668.1 | 869.1 | 1964.0 | 6054.5 | 9633.1 | 9668.6 | 5938.5 |
| 75° | 409.8 | 412.9 | 484.1 | 519.6 | 562.9 | 598.5 | 876.9 | 3052.8 | 4627.1 | 4379.6 | 2288.8 |
| 77.5° | 306.2 | 320.1 | 352.6 | 397.4 | 459.3 | 428.4 | 392.8 | 1150.6 | 1436.7 | 1410.4 | 665.0 |
| 80° | 196.4 | 204.1 | 245.9 | 298.5 | 357.2 | 279.9 | 221.1 | 337.1 | 315.5 | 324.8 | 159.3 |
| 82.5° | 99.0 | 100.5 | 157.7 | 242.8 | 227.3 | 140.7 | 139.2 | 137.6 | 117.5 | 116.0 | 74.2 |
| 85° | 10.8 | 23.2 | 102.1 | 139.2 | 102.1 | 46.4 | 65.0 | 63.4 | 61.9 | 63.4 | 43.3 |
| 87.5° | 1.5 | 1.5 | 17.0 | 20.1 | 13.9 | 15.5 | 18.6 | 20.1 | 24.7 | 23.2 | 18.6 |
| 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: P454559
 CATALOG NUMBER: GLAN-SA5C-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1875.9 | 1875.9 | 1875.9 | 1875.9 | 1875.9 | 1875.9 | 1875.9 | 1875.9 | 1875.9 | 1875.9 | 1875.9 |
| 2.5° | 1931.6 | 1869.7 | 1755.3 | 1645.5 | 1563.5 | 1510.9 | 1442.9 | 1418.1 | 1382.6 | 1377.9 | 1360.9 |
| 5° | 2015.1 | 1897.5 | 1698.0 | 1540.3 | 1413.5 | 1317.6 | 1234.1 | 1164.5 | 1108.8 | 1096.5 | 1102.6 |
| 7.5° | 2134.2 | 1959.4 | 1681.0 | 1466.1 | 1289.8 | 1125.8 | 992.8 | 910.9 | 852.1 | 830.5 | 833.6 |
| 10° | 2268.7 | 2041.4 | 1677.9 | 1387.2 | 1118.1 | 917.1 | 771.7 | 699.0 | 665.0 | 652.6 | 638.7 |
| 12.5° | 2428.0 | 2135.7 | 1670.2 | 1265.0 | 929.4 | 731.5 | 627.9 | 584.6 | 552.1 | 542.8 | 542.8 |
| 15° | 2607.4 | 2236.2 | 1633.1 | 1113.5 | 754.7 | 604.7 | 535.1 | 501.1 | 490.2 | 481.0 | 481.0 |
| 17.5° | 2794.5 | 2335.2 | 1555.8 | 926.3 | 626.3 | 518.1 | 474.8 | 454.7 | 439.2 | 428.4 | 428.4 |
| 20° | 3007.9 | 2432.6 | 1432.0 | 760.9 | 528.9 | 462.4 | 428.4 | 405.2 | 392.8 | 383.5 | 380.4 |
| 22.5° | 3210.5 | 2511.5 | 1274.3 | 624.8 | 460.9 | 416.0 | 385.1 | 360.3 | 348.0 | 343.3 | 343.3 |
| 25° | 3420.8 | 2559.4 | 1084.1 | 516.5 | 420.6 | 377.3 | 343.3 | 323.2 | 312.4 | 309.3 | 307.8 |
| 27.5° | 3625.0 | 2587.3 | 917.1 | 451.6 | 383.5 | 341.8 | 309.3 | 293.8 | 283.0 | 279.9 | 281.5 |
| 30° | 3872.4 | 2591.9 | 754.7 | 405.2 | 351.1 | 307.8 | 278.4 | 264.4 | 258.3 | 255.2 | 253.6 |
| 32.5° | 4122.9 | 2585.7 | 634.1 | 377.3 | 320.1 | 278.4 | 253.6 | 242.8 | 238.2 | 233.5 | 233.5 |
| 35° | 4404.4 | 2553.2 | 539.7 | 349.5 | 290.7 | 253.6 | 232.0 | 222.7 | 216.5 | 211.9 | 210.3 |
| 37.5° | 4753.9 | 2536.2 | 485.6 | 318.6 | 264.4 | 230.4 | 210.3 | 201.0 | 196.4 | 190.2 | 188.7 |
| 40° | 5304.4 | 2612.0 | 468.6 | 290.7 | 238.2 | 208.8 | 190.2 | 179.4 | 173.2 | 167.0 | 165.5 |
| 42.5° | 5991.1 | 2745.0 | 440.7 | 262.9 | 215.0 | 188.7 | 170.1 | 157.7 | 146.9 | 139.2 | 136.1 |
| 45° | 6880.3 | 2919.8 | 397.4 | 233.5 | 194.9 | 167.0 | 150.0 | 134.5 | 120.6 | 114.4 | 112.9 |
| 47.5° | 7812.8 | 3088.3 | 358.8 | 210.3 | 173.2 | 148.5 | 129.9 | 112.9 | 100.5 | 95.9 | 94.3 |
| 50° | 8385.0 | 3122.4 | 334.0 | 184.0 | 151.6 | 128.4 | 109.8 | 94.3 | 86.6 | 82.0 | 82.0 |
| 52.5° | 8646.4 | 3068.2 | 300.0 | 160.8 | 131.5 | 112.9 | 94.3 | 82.0 | 77.3 | 74.2 | 72.7 |
| 55° | 8828.9 | 2984.7 | 255.2 | 139.2 | 112.9 | 95.9 | 83.5 | 74.2 | 68.0 | 65.0 | 63.4 |
| 57° | 8935.6 | 2871.8 | 221.1 | 122.2 | 97.4 | 83.5 | 74.2 | 66.5 | 60.3 | 54.1 | 54.1 |
| 57.5° | 8940.2 | 2828.5 | 211.9 | 120.6 | 92.8 | 80.4 | 72.7 | 65.0 | 57.2 | 51.0 | 49.5 |
| 60° | 8802.6 | 2531.6 | 170.1 | 102.1 | 74.2 | 68.0 | 60.3 | 51.0 | 40.2 | 34.0 | 32.5 |
| 62.5° | 8360.3 | 2154.3 | 140.7 | 86.6 | 60.3 | 52.6 | 43.3 | 38.7 | 27.8 | 20.1 | 20.1 |
| 65° | 7690.7 | 1747.5 | 120.6 | 69.6 | 49.5 | 38.7 | 29.4 | 27.8 | 17.0 | 9.3 | 7.7 |
| 67.5° | 6722.6 | 1360.9 | 102.1 | 57.2 | 41.8 | 27.8 | 20.1 | 18.6 | 9.3 | 3.1 | 0.0 |
| 70° | 5122.0 | 927.9 | 85.1 | 46.4 | 30.9 | 20.1 | 13.9 | 10.8 | 6.2 | 1.5 | 0.0 |
| 72.5° | 2952.2 | 510.3 | 71.1 | 35.6 | 23.2 | 15.5 | 10.8 | 6.2 | 6.2 | 0.0 | 0.0 |
| 75° | 1054.7 | 219.6 | 54.1 | 26.3 | 18.6 | 12.4 | 7.7 | 3.1 | 4.6 | 1.5 | 0.0 |
| 77.5° | 335.6 | 117.5 | 35.6 | 20.1 | 15.5 | 9.3 | 6.2 | 3.1 | 3.1 | 1.5 | 0.0 |
| 80° | 99.0 | 61.9 | 21.7 | 17.0 | 10.8 | 7.7 | 4.6 | 1.5 | 3.1 | 1.5 | 0.0 |
| 82.5° | 54.1 | 30.9 | 17.0 | 12.4 | 10.8 | 6.2 | 4.6 | 1.5 | 1.5 | 1.5 | 0.0 |
| 85° | 27.8 | 18.6 | 13.9 | 12.4 | 10.8 | 6.2 | 4.6 | 1.5 | 0.0 | 1.5 | 1.5 |
| 87.5° | 15.5 | 13.9 | 13.9 | 12.4 | 10.8 | 7.7 | 4.6 | 1.5 | 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)