

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: P955710

Luminaire Tested: **GLAN-SB8C-830-U-AFL-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P955710  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB8C-830-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 46395 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

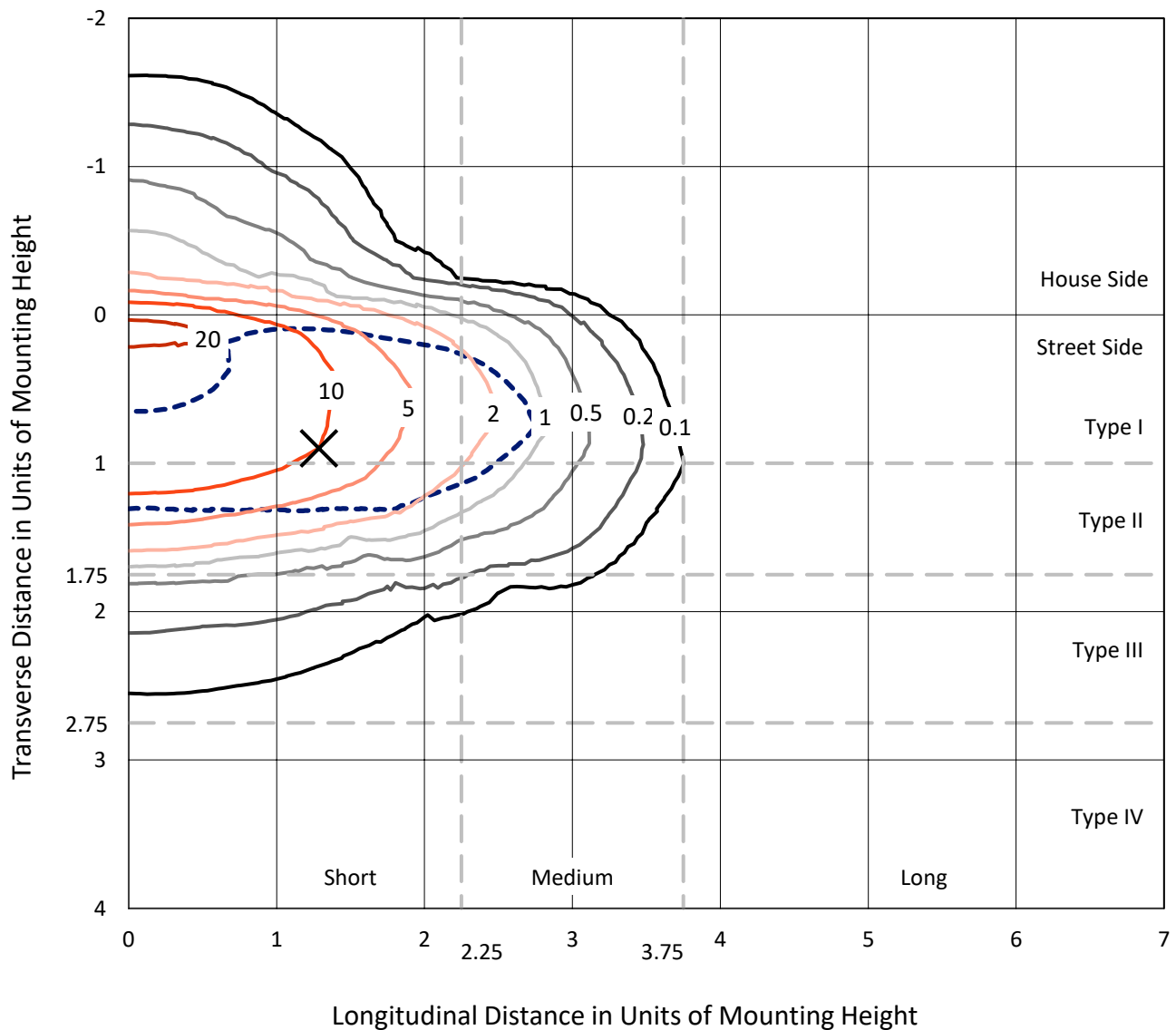
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P955710  
CATALOG NUMBER: GLAN-SB8C-830-U-AFL-HSS

## Iso-Footcandle Lines of Horizontal Illumination

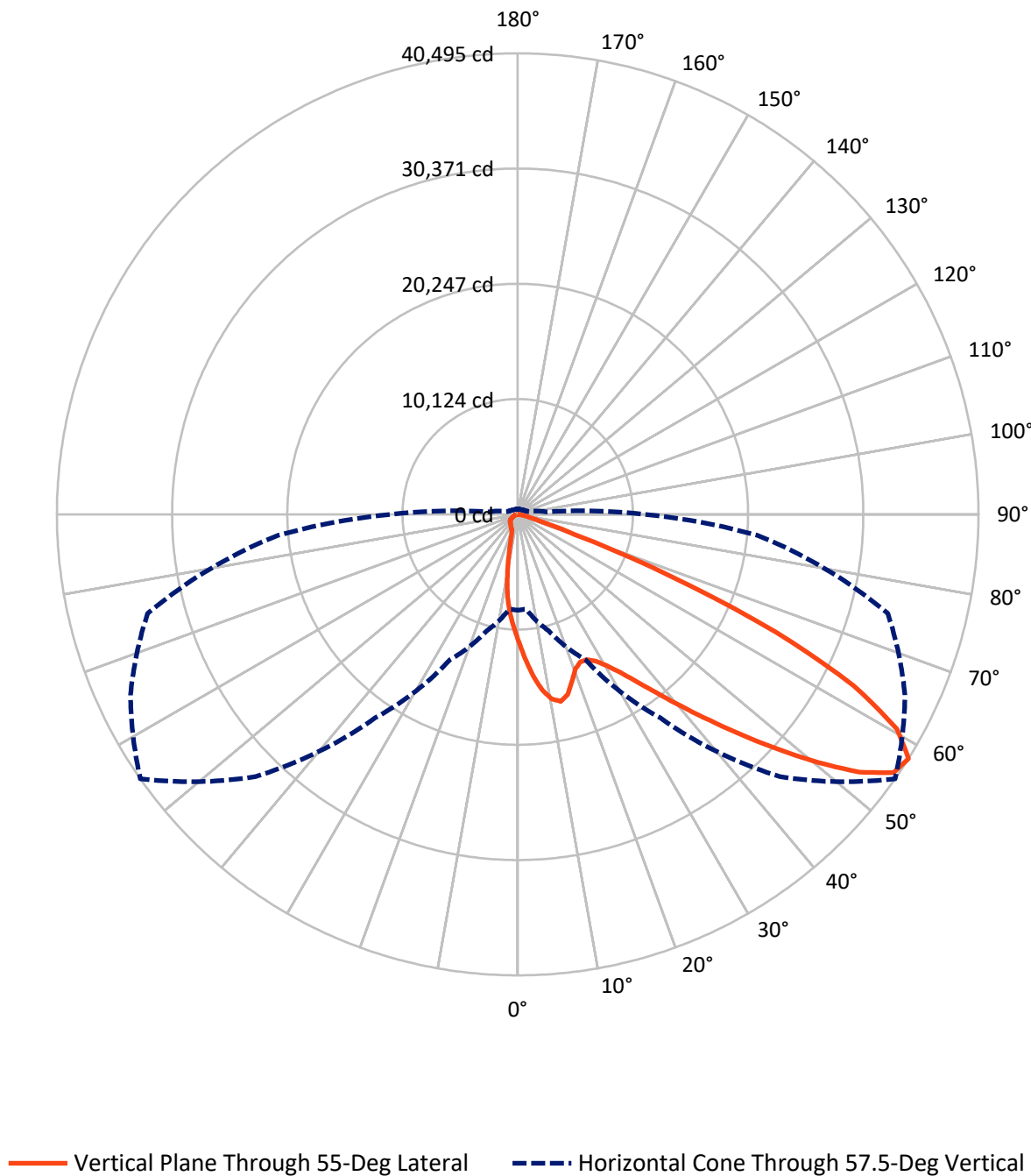
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.6 fc  
Type II - Short - N/A

REPORT NUMBER: P955710  
CATALOG NUMBER: GLAN-SB8C-830-U-AFL-HSS

## Luminous Intensity Polar Plot



REPORT NUMBER: P955710

CATALOG NUMBER: GLAN-SB8C-830-U-AFL-HSS

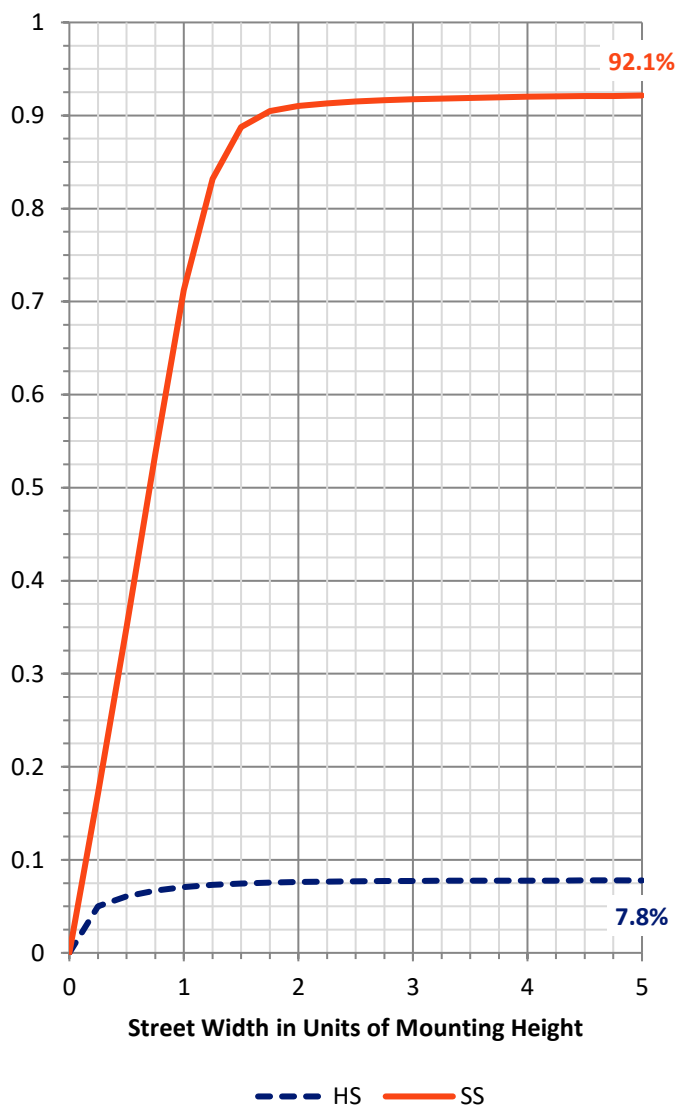
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3623.3   | 0.0    | 3623.3  |
|                    | % Fixture | 7.8      | 0.0    | 7.8     |
| <b>Street Side</b> | Lumens    | 42771.7  | 0.0    | 42771.7 |
|                    | % Fixture | 92.2     | 0.0    | 92.2    |
| <b>Total</b>       | Lumens    | 46395.0  | 0.0    | 46395.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1040.2  | 2.2       |
| 10°-20°   | 2512.7  | 5.4       |
| 20°-30°   | 4020.3  | 8.7       |
| 30°-40°   | 6804.6  | 14.7      |
| 40°-50°   | 11171.7 | 24.1      |
| 50°-60°   | 12278.5 | 26.5      |
| 60°-70°   | 7043.0  | 15.2      |
| 70°-80°   | 1439.1  | 3.1       |
| 80°-90°   | 84.9    | 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°    | 46395.0 | 100.0     |
| 0°-180°   | 46395.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P955710

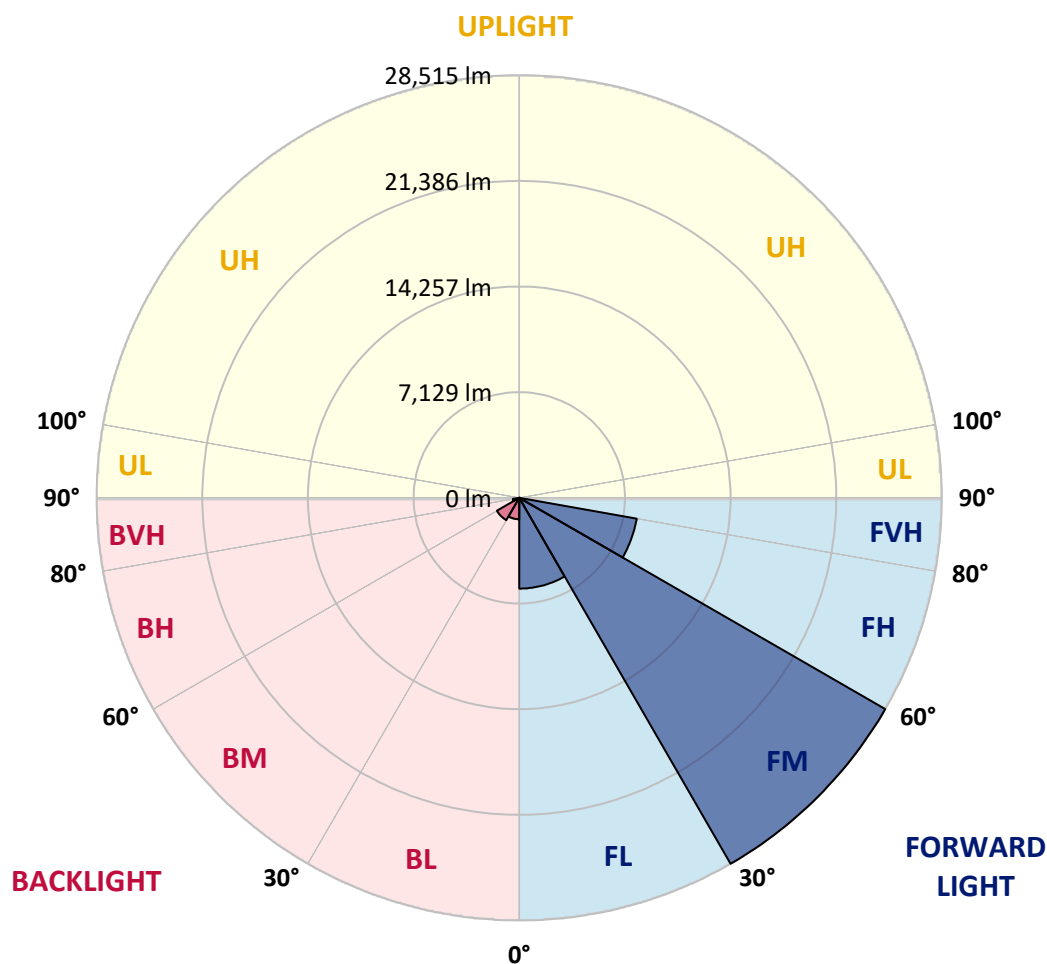
CATALOG NUMBER: GLAN-SB8C-830-U-AFL-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 6126.7  | 13.2      |                         |      |          |
| FM   | (30°-60°)   | 28514.7 | 61.5      |                         |      |          |
| FH   | (60°-80°)   | 8051.1  | 17.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 79.2    | 0.2       |                         |      | G1/100   |
| BL   | (0°-30°)    | 1446.5  | 3.1       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 1740.1  | 3.8       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 430.9   | 0.9       | B1/500                  |      | G1/500   |
| BVH  | (80°-90°)   | 5.7     | 0.0       |                         |      | G0/10    |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B3-U0-G4**

Type II Short



REPORT NUMBER: P955710

CATALOG NUMBER: GLAN-SB8C-830-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 11180.1 | 11180.1 | 11180.1 | 11180.1 | 11180.1 | 11180.1 | 11180.1 | 11180.1 | 11180.1 | 11180.1 |
| 2.5°  | 13872.1 | 13697.6 | 13671.8 | 13637.5 | 13305.6 | 13056.7 | 12696.3 | 12301.5 | 11858.1 | 11406.1 |
| 5°    | 16026.3 | 15888.9 | 15863.2 | 15703.0 | 15325.4 | 14902.0 | 14261.1 | 13451.5 | 12624.8 | 11652.1 |
| 7.5°  | 16443.9 | 16418.2 | 16535.5 | 16529.8 | 16478.3 | 16143.6 | 15602.9 | 14638.8 | 13397.2 | 11955.3 |
| 10°   | 14581.6 | 14647.4 | 14996.4 | 15302.5 | 16129.3 | 16609.9 | 16492.6 | 15697.3 | 14192.5 | 12301.5 |
| 12.5° | 12885.1 | 12807.9 | 13056.7 | 13402.9 | 14364.1 | 15794.5 | 16861.6 | 16581.3 | 15102.2 | 12693.4 |
| 15°   | 11820.9 | 11789.4 | 11929.6 | 12089.8 | 12822.2 | 14264.0 | 16432.5 | 17299.3 | 15977.6 | 13156.9 |
| 17.5° | 11480.4 | 11454.7 | 11497.6 | 11537.7 | 12012.5 | 13128.3 | 15411.2 | 17739.9 | 16815.9 | 13686.1 |
| 20°   | 11757.9 | 11723.6 | 11717.9 | 11686.4 | 11883.8 | 12644.8 | 14487.1 | 17771.4 | 17568.2 | 14166.7 |
| 22.5° | 12567.5 | 12527.5 | 12387.3 | 12261.4 | 12278.6 | 12710.6 | 14075.2 | 17456.7 | 18134.7 | 14615.9 |
| 25°   | 14035.1 | 13969.3 | 13677.5 | 13254.1 | 12985.2 | 13168.3 | 14138.1 | 17041.9 | 18675.4 | 14967.8 |
| 27.5° | 15871.8 | 15786.0 | 15411.2 | 14781.8 | 14166.7 | 13943.6 | 14593.0 | 16755.8 | 19124.5 | 15236.7 |
| 30°   | 17671.2 | 17559.7 | 17190.6 | 16701.4 | 15803.1 | 15099.4 | 15414.1 | 16881.6 | 19659.5 | 15517.0 |
| 32.5° | 19613.7 | 19507.9 | 19018.7 | 18412.2 | 17668.4 | 16721.4 | 16538.4 | 17496.7 | 20314.6 | 15909.0 |
| 35°   | 22071.2 | 21905.2 | 21210.1 | 20383.3 | 19593.7 | 18635.3 | 18060.3 | 18558.1 | 21187.2 | 16506.9 |
| 37.5° | 24869.0 | 24645.9 | 23896.4 | 22754.9 | 21725.0 | 20652.2 | 19914.1 | 20017.1 | 22466.0 | 17307.9 |
| 40°   | 27506.7 | 27303.6 | 26611.3 | 25535.6 | 24242.5 | 22940.8 | 22154.1 | 21925.3 | 24231.1 | 18283.4 |
| 42.5° | 29088.7 | 28905.6 | 28613.8 | 28159.0 | 27069.0 | 25741.6 | 24748.9 | 24254.0 | 26319.5 | 19450.7 |
| 45°   | 29177.4 | 29017.2 | 29409.1 | 29938.4 | 29723.8 | 28839.8 | 27629.7 | 26722.8 | 28416.4 | 20546.3 |
| 47.5° | 27758.5 | 27649.7 | 28839.8 | 30687.9 | 31609.1 | 31981.0 | 30865.3 | 28985.7 | 30147.2 | 21333.1 |
| 50°   | 23890.6 | 23850.6 | 26299.4 | 29692.4 | 32327.2 | 34733.1 | 34278.2 | 31091.3 | 31489.0 | 21739.3 |
| 52.5° | 20715.1 | 20569.2 | 21996.8 | 26505.4 | 31283.0 | 36180.7 | 37614.0 | 33156.8 | 32427.3 | 21816.5 |
| 55°   | 15711.6 | 15582.8 | 17373.7 | 21172.9 | 27915.8 | 35665.7 | 40054.2 | 35288.1 | 33099.6 | 21619.2 |
| 57.5° | 8428.0  | 8347.8  | 10610.8 | 14092.4 | 21822.3 | 32576.1 | 40494.8 | 37542.4 | 33666.0 | 21095.6 |
| 60°   | 3281.4  | 3267.0  | 4113.8  | 6837.3  | 13262.7 | 26502.6 | 38271.9 | 38895.6 | 34020.8 | 20451.9 |
| 62.5° | 1985.4  | 2028.3  | 2165.6  | 3069.7  | 5858.9  | 16464.0 | 33148.2 | 37356.5 | 34258.2 | 19862.6 |
| 65°   | 1642.1  | 1645.0  | 1662.1  | 2108.4  | 2806.5  | 6888.8  | 24954.9 | 32292.8 | 33671.8 | 18812.7 |
| 67.5° | 1407.5  | 1433.3  | 1499.1  | 1673.6  | 1979.7  | 3021.0  | 14367.0 | 25014.9 | 30104.3 | 16369.6 |
| 70°   | 1110.0  | 1144.3  | 1227.3  | 1376.1  | 1527.7  | 1891.0  | 5309.7  | 16644.2 | 22998.1 | 12338.7 |
| 72.5° | 935.5   | 932.6   | 975.5   | 1118.6  | 1213.0  | 1330.3  | 2042.6  | 9326.2  | 13365.7 | 5890.4  |
| 75°   | 723.8   | 752.4   | 806.7   | 935.5   | 992.7   | 964.1   | 1107.1  | 3407.2  | 4789.0  | 1785.1  |
| 77.5° | 566.4   | 589.3   | 638.0   | 763.8   | 821.1   | 683.7   | 638.0   | 1218.7  | 1539.1  | 640.8   |
| 80°   | 254.6   | 274.6   | 434.8   | 563.6   | 669.4   | 472.0   | 346.2   | 623.7   | 683.7   | 291.8   |
| 82.5° | 45.8    | 77.2    | 254.6   | 297.5   | 343.3   | 306.1   | 180.2   | 323.3   | 334.7   | 117.3   |
| 85°   | 2.9     | 5.7     | 88.7    | 108.7   | 137.3   | 100.1   | 54.4    | 128.7   | 111.6   | 40.1    |
| 87.5° | 0.0     | 0.0     | 0.0     | 2.9     | 2.9     | 14.3    | 17.2    | 22.9    | 17.2    | 14.3    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

REPORT NUMBER: P955710

CATALOG NUMBER: GLAN-SB8C-830-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

| 90°     |       | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|---------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 11180.1 | 0°    | 11180.1 | 11180.1 | 11180.1 | 11180.1 | 11180.1 | 11180.1 | 11180.1 | 11180.1 | 11180.1 | 11180.1 |
| 11205.8 | 2.5°  | 10999.8 | 10593.6 | 10198.8 | 9875.5  | 9686.7  | 9366.3  | 9154.6  | 9120.3  | 9031.6  | 9108.8  |
| 11234.4 | 5°    | 10788.1 | 10061.5 | 9326.2  | 8668.3  | 8127.6  | 7429.5  | 6908.9  | 6688.6  | 6496.9  | 6562.7  |
| 11308.8 | 7.5°  | 10688.0 | 9540.8  | 8396.5  | 7272.2  | 6116.4  | 5000.7  | 4171.1  | 3824.9  | 3561.7  | 3598.9  |
| 11391.8 | 10°   | 10553.5 | 9000.1  | 7206.4  | 5489.9  | 3942.2  | 2840.8  | 2268.6  | 2056.9  | 1939.6  | 1942.5  |
| 11514.8 | 12.5° | 10450.5 | 8353.6  | 5824.6  | 3721.9  | 2400.2  | 1813.8  | 1636.4  | 1584.9  | 1550.6  | 1553.4  |
| 11700.7 | 15°   | 10399.1 | 7592.6  | 4460.0  | 2480.3  | 1716.5  | 1536.3  | 1493.3  | 1470.5  | 1447.6  | 1444.7  |
| 11906.7 | 17.5° | 10313.2 | 6745.8  | 3264.2  | 1810.9  | 1501.9  | 1439.0  | 1401.8  | 1376.1  | 1347.4  | 1341.7  |
| 12084.1 | 20°   | 10184.5 | 5784.6  | 2385.9  | 1530.5  | 1407.5  | 1358.9  | 1307.4  | 1273.1  | 1238.7  | 1233.0  |
| 12195.6 | 22.5° | 9947.0  | 4769.0  | 1833.8  | 1416.1  | 1338.9  | 1284.5  | 1221.6  | 1181.5  | 1147.2  | 1141.5  |
| 12141.3 | 25°   | 9506.5  | 3816.3  | 1544.8  | 1344.6  | 1278.8  | 1213.0  | 1144.3  | 1090.0  | 1058.5  | 1052.8  |
| 12024.0 | 27.5° | 8948.6  | 2998.1  | 1401.8  | 1278.8  | 1201.5  | 1141.5  | 1064.2  | 1012.7  | 984.1   | 978.4   |
| 11869.5 | 30°   | 8290.6  | 2308.7  | 1318.8  | 1204.4  | 1110.0  | 1058.5  | 989.8   | 946.9   | 929.8   | 929.8   |
| 11760.8 | 32.5° | 7581.2  | 1845.2  | 1284.5  | 1130.0  | 1029.9  | 972.7   | 918.3   | 901.2   | 895.4   | 892.6   |
| 11820.9 | 35°   | 6914.6  | 1602.1  | 1267.3  | 1069.9  | 958.4   | 904.0   | 881.1   | 884.0   | 895.4   | 895.4   |
| 12006.8 | 37.5° | 6322.4  | 1524.8  | 1258.8  | 1027.0  | 895.4   | 846.8   | 861.1   | 886.9   | 875.4   | 875.4   |
| 12333.0 | 40°   | 5787.4  | 1533.4  | 1253.0  | 995.6   | 843.9   | 815.3   | 843.9   | 823.9   | 795.3   | 792.4   |
| 12730.6 | 42.5° | 5378.3  | 1604.9  | 1241.6  | 969.8   | 812.5   | 792.4   | 781.0   | 749.5   | 746.7   | 752.4   |
| 13142.6 | 45°   | 5080.8  | 1667.9  | 1238.7  | 958.4   | 778.1   | 741.0   | 726.6   | 695.2   | 752.4   | 766.7   |
| 13311.4 | 47.5° | 4728.9  | 1667.9  | 1238.7  | 918.3   | 720.9   | 706.6   | 683.7   | 649.4   | 706.6   | 720.9   |
| 13151.2 | 50°   | 4274.1  | 1562.0  | 1190.1  | 872.5   | 675.2   | 666.6   | 626.5   | 583.6   | 572.2   | 580.7   |
| 12776.4 | 52.5° | 3699.0  | 1370.3  | 1067.1  | 809.6   | 629.4   | 612.2   | 563.6   | 532.1   | 523.5   | 523.5   |
| 12104.1 | 55°   | 3043.9  | 1147.2  | 901.2   | 718.1   | 580.7   | 549.3   | 514.9   | 500.6   | 492.1   | 486.3   |
| 11162.9 | 57.5° | 2474.6  | 941.2   | 723.8   | 638.0   | 535.0   | 494.9   | 483.5   | 466.3   | 452.0   | 443.4   |
| 10376.2 | 60°   | 2031.2  | 741.0   | 597.9   | 566.4   | 489.2   | 452.0   | 449.1   | 426.3   | 389.1   | 383.3   |
| 9726.8  | 62.5° | 1567.7  | 543.6   | 503.5   | 492.1   | 443.4   | 412.0   | 406.2   | 360.5   | 303.2   | 291.8   |
| 8805.6  | 65°   | 1107.1  | 423.4   | 406.2   | 432.0   | 394.8   | 366.2   | 351.9   | 283.2   | 223.1   | 214.6   |
| 7369.5  | 67.5° | 778.1   | 354.7   | 320.4   | 377.6   | 343.3   | 306.1   | 297.5   | 240.3   | 186.0   | 180.2   |
| 5572.9  | 70°   | 555.0   | 288.9   | 263.2   | 323.3   | 274.6   | 268.9   | 251.8   | 200.3   | 151.6   | 145.9   |
| 2757.8  | 72.5° | 391.9   | 220.3   | 203.1   | 280.4   | 188.8   | 231.7   | 206.0   | 154.5   | 114.4   | 108.7   |
| 938.3   | 75°   | 288.9   | 157.3   | 143.0   | 163.1   | 137.3   | 174.5   | 145.9   | 103.0   | 71.5    | 68.7    |
| 423.4   | 77.5° | 211.7   | 100.1   | 85.8    | 80.1    | 80.1    | 108.7   | 80.1    | 42.9    | 31.5    | 28.6    |
| 214.6   | 80°   | 148.8   | 45.8    | 40.1    | 34.3    | 31.5    | 25.7    | 11.4    | 5.7     | 2.9     | 2.9     |
| 74.4    | 82.5° | 88.7    | 20.0    | 20.0    | 14.3    | 8.6     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 28.6    | 85°   | 20.0    | 8.6     | 8.6     | 2.9     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 11.4    | 87.5° | 2.9     | 2.9     | 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     |

(END OF RI

