

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: P653445

Luminaire Tested: **GLAN-SA6D-840-U-SLR-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P653445  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA6D-840-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27705.9 lumens  
Efficiency: N/A  
Efficacy: 75.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

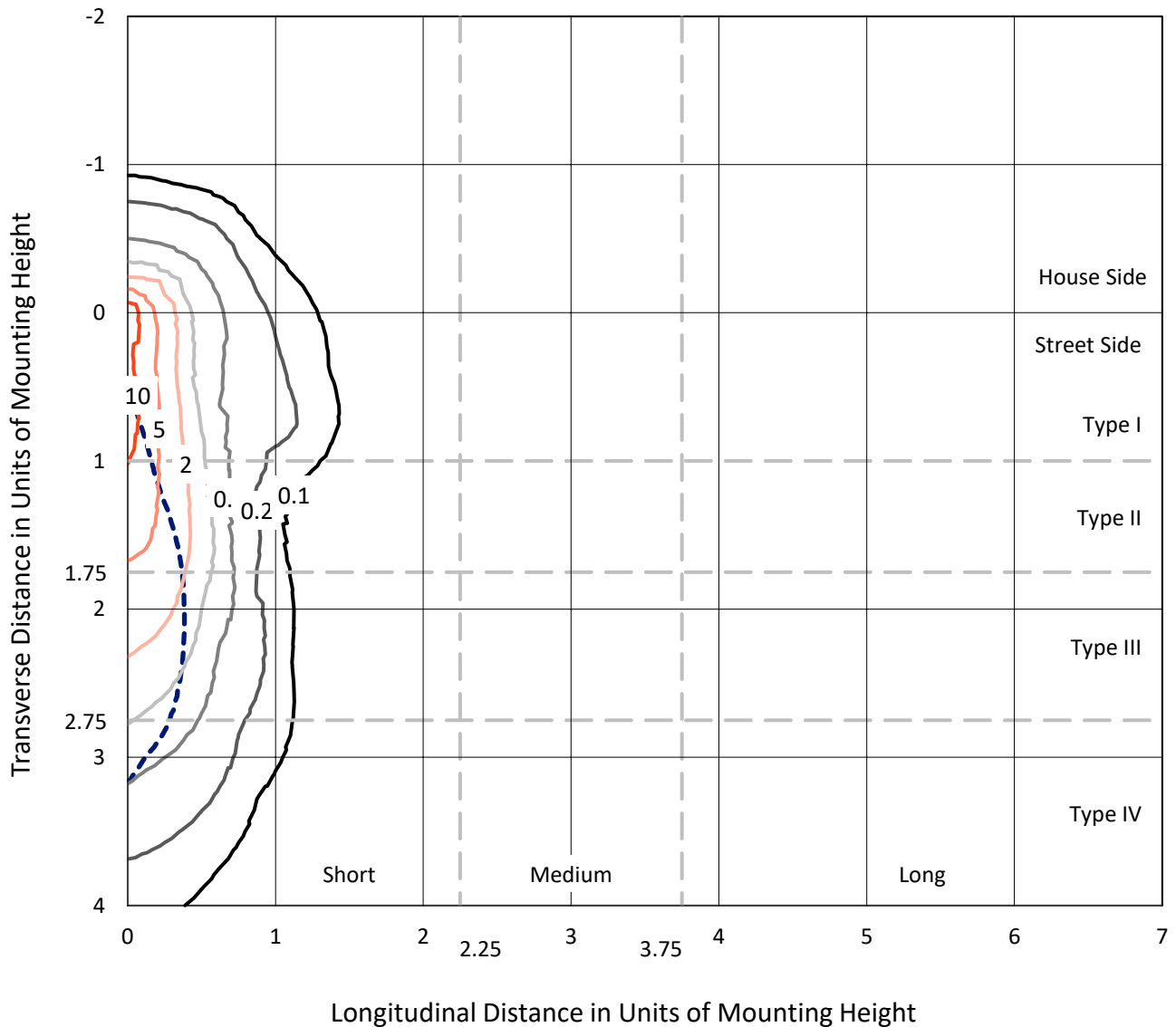
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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 CATALOG NUMBER: GLAN-SA6D-840-U-SLR-HSS

### Iso-Footcandle Lines of Horizontal Illumination

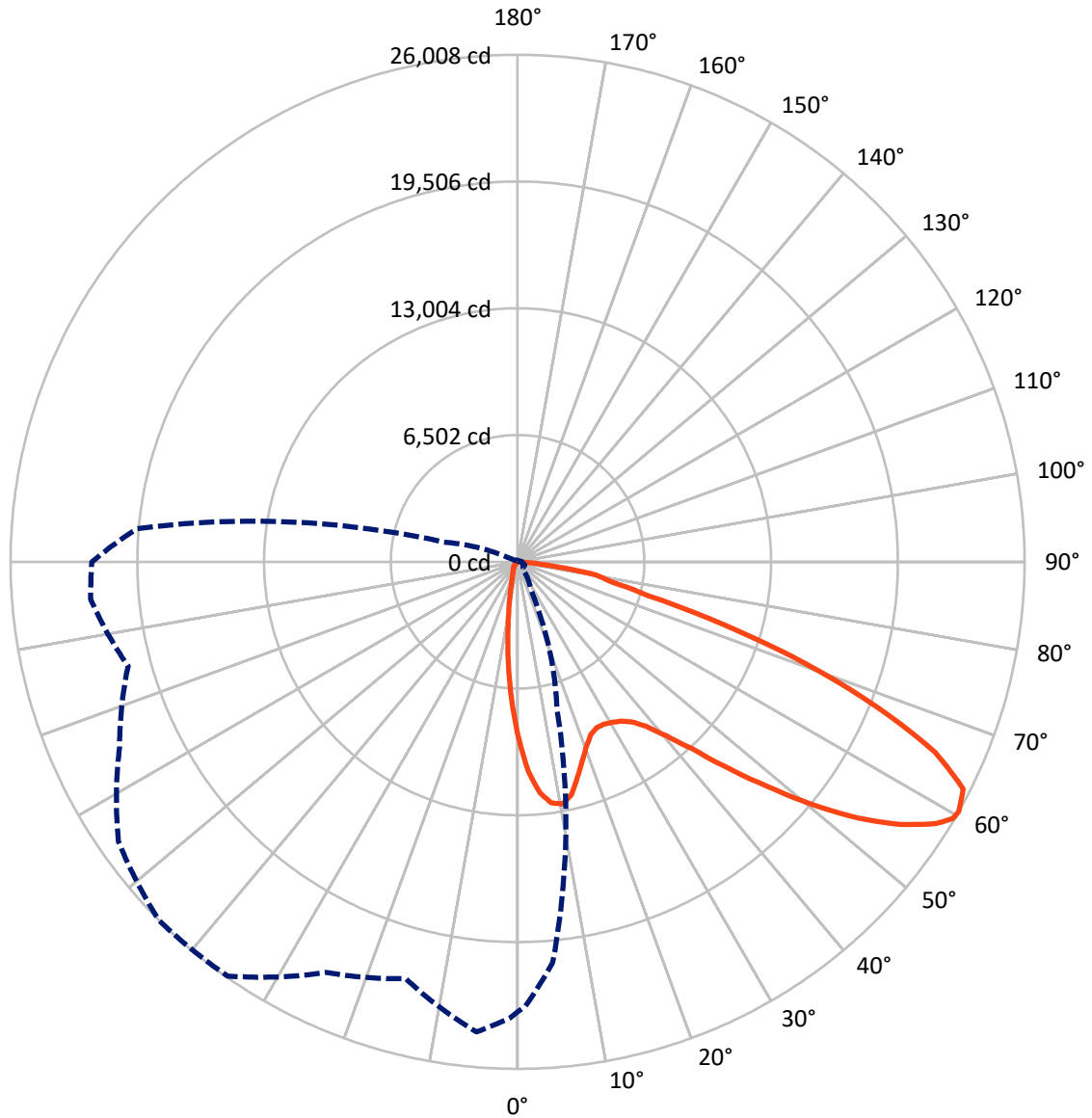
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc  
 Type IV - Short - N/A

REPORT NUMBER: P653445  
CATALOG NUMBER: GLAN-SA6D-840-U-SLR-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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 CATALOG NUMBER: GLAN-SA6D-840-U-SLR-HSS

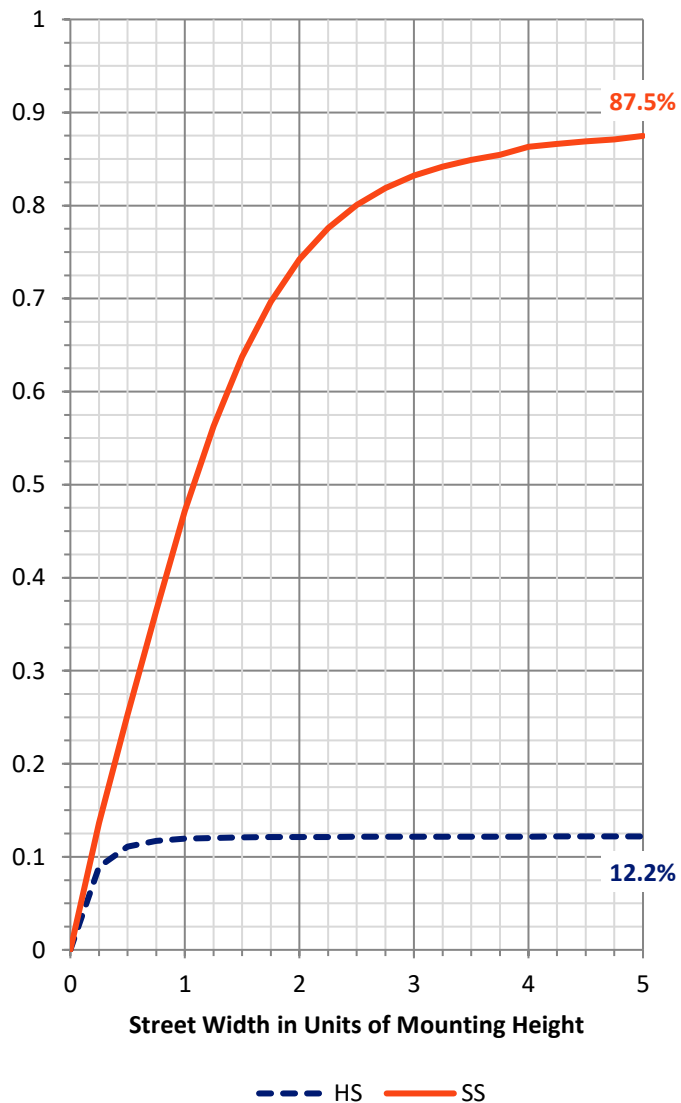
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 3417.2   | 0.0    | 3417.2  |
|                    | % Fixture | 12.3     | 0.0    | 12.3    |
| <b>Street Side</b> | Lumens    | 24288.6  | 0.0    | 24288.6 |
|                    | % Fixture | 87.7     | 0.0    | 87.7    |
| <b>Total</b>       | Lumens    | 27705.9  | 0.0    | 27705.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 681.1   | 2.5       |
| 10°-20°   | 1352.6  | 4.9       |
| 20°-30°   | 1983.3  | 7.2       |
| 30°-40°   | 2949.6  | 10.6      |
| 40°-50°   | 4292.5  | 15.5      |
| 50°-60°   | 6190.1  | 22.3      |
| 60°-70°   | 6808.5  | 24.6      |
| 70°-80°   | 3049.6  | 11.0      |
| 80°-90°   | 398.5   | 1.4       |
| 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°    | 27705.9 | 100.0     |
| 0°-180°   | 27705.9 | 100.0     |

**Coefficient of Utilization**

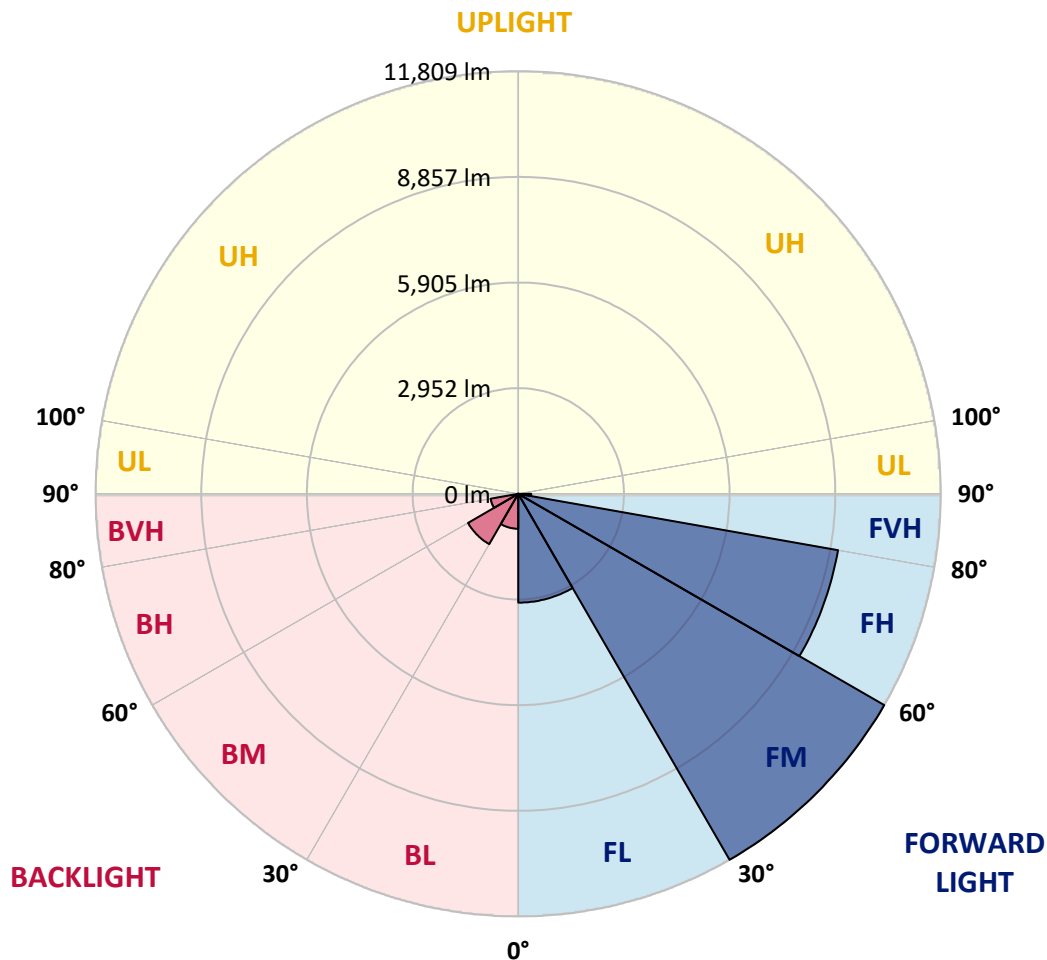


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|---------|-----------|-------------------------|------|----------|
|                |         |           | B                       | U    | G        |
| FL (0°-30°)    | 3040.6  | 11.0      |                         |      |          |
| FM (30°-60°)   | 11809.1 | 42.6      |                         |      |          |
| FH (60°-80°)   | 9074.5  | 32.8      |                         |      | G4/12000 |
| FVH (80°-90°)  | 364.4   | 1.3       |                         |      | G3/500   |
| BL (0°-30°)    | 976.4   | 3.5       | B2/1000                 |      |          |
| BM (30°-60°)   | 1623.1  | 5.9       | B2/2500                 |      |          |
| BH (60°-80°)   | 783.6   | 2.8       | B2/1000                 |      | G2/1000  |
| BVH (80°-90°)  | 34.1    | 0.1       |                         |      | G1/100   |
| UL (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B2-U0-G4**  
 Type IV Short





REPORT NUMBER: P653445

CATALOG NUMBER: GLAN-SA6D-840-U-SLR-HSS

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 9157.2  | 9157.2  | 9157.2  | 9157.2 | 9157.2 | 9157.2 | 9157.2 | 9157.2 | 9157.2 | 9157.2 | 9157.2 |
| 2.5°  | 10067.0 | 10022.8 | 9921.7  | 9614.2 | 9346.7 | 8997.1 | 8643.3 | 8365.3 | 8194.7 | 7880.9 | 7737.7 |
| 5°    | 9753.2  | 9774.3  | 9481.5  | 8849.7 | 8146.3 | 7666.1 | 7141.7 | 6724.7 | 6265.5 | 5974.9 | 5669.5 |
| 7.5°  | 8933.9  | 8891.8  | 8573.8  | 7693.5 | 6838.4 | 6143.4 | 5480.0 | 4940.9 | 4601.8 | 4330.1 | 4102.7 |
| 10°   | 8232.6  | 8201.0  | 7794.6  | 6661.5 | 5743.3 | 5223.0 | 4774.4 | 4302.7 | 3938.3 | 3540.3 | 3222.3 |
| 12.5° | 7792.5  | 7720.9  | 7253.3  | 6069.7 | 5322.0 | 4837.7 | 4349.1 | 3858.3 | 3355.0 | 2952.8 | 2567.3 |
| 15°   | 7645.0  | 7541.8  | 7021.7  | 5865.4 | 5052.5 | 4437.5 | 3824.6 | 3260.2 | 2681.0 | 2236.6 | 1946.0 |
| 17.5° | 7912.5  | 7741.9  | 7188.0  | 5829.6 | 4730.2 | 3915.2 | 3161.2 | 2426.2 | 1823.9 | 1484.8 | 1305.7 |
| 20°   | 8525.4  | 8329.5  | 7609.2  | 5793.8 | 4372.2 | 3329.7 | 2403.0 | 1714.4 | 1261.5 | 1076.2 | 977.2  |
| 22.5° | 9435.2  | 9165.6  | 8232.6  | 5850.7 | 4041.5 | 2759.0 | 1735.4 | 1211.0 | 1002.5 | 886.7  | 817.1  |
| 25°   | 10528.2 | 10302.9 | 9022.4  | 6052.8 | 3780.4 | 2310.4 | 1341.6 | 989.9  | 844.5  | 773.0  | 720.3  |
| 27.5° | 11726.6 | 11366.5 | 10043.9 | 6295.1 | 3542.4 | 1962.9 | 1177.3 | 884.6  | 751.9  | 686.6  | 659.2  |
| 30°   | 12579.6 | 12299.5 | 10898.9 | 6463.5 | 3245.4 | 1701.7 | 1076.2 | 871.9  | 754.0  | 676.1  | 625.5  |
| 32.5° | 13422.0 | 13063.9 | 11615.0 | 6541.5 | 3028.5 | 1520.6 | 930.9  | 760.3  | 661.3  | 621.3  | 570.8  |
| 35°   | 14323.4 | 13948.5 | 12329.0 | 6499.3 | 2866.4 | 1400.5 | 844.5  | 678.2  | 566.5  | 499.1  | 448.6  |
| 37.5° | 15235.3 | 14839.4 | 13038.7 | 6347.7 | 2765.3 | 1352.1 | 777.2  | 644.5  | 535.0  | 465.4  | 410.7  |
| 40°   | 16317.8 | 15789.2 | 13704.2 | 6223.4 | 2660.0 | 1326.8 | 732.9  | 623.4  | 511.7  | 438.1  | 383.3  |
| 42.5° | 17202.4 | 16699.1 | 14333.9 | 6158.1 | 2588.3 | 1267.9 | 732.9  | 606.5  | 497.0  | 414.9  | 358.0  |
| 45°   | 18040.6 | 17518.3 | 15014.2 | 6210.8 | 2558.9 | 1194.1 | 741.3  | 604.4  | 486.5  | 398.0  | 341.2  |
| 47.5° | 18741.9 | 18289.1 | 15713.4 | 6408.8 | 2521.0 | 1114.1 | 697.1  | 633.9  | 480.2  | 383.3  | 324.4  |
| 50°   | 19569.6 | 19131.6 | 16637.9 | 6808.9 | 2453.5 | 1034.1 | 642.4  | 682.4  | 478.1  | 370.6  | 309.6  |
| 52.5° | 20736.4 | 20262.5 | 17914.2 | 7263.8 | 2346.1 | 911.9  | 591.8  | 676.1  | 469.6  | 349.6  | 294.9  |
| 55°   | 22162.2 | 21778.9 | 19392.7 | 7809.3 | 2198.7 | 775.1  | 511.7  | 600.2  | 444.4  | 313.8  | 269.5  |
| 57.5° | 23076.2 | 22749.8 | 20500.5 | 8045.2 | 1973.4 | 633.9  | 450.7  | 503.3  | 406.5  | 280.1  | 240.1  |
| 59°   | 23183.6 | 22888.7 | 20732.2 | 7967.3 | 1826.0 | 579.2  | 421.2  | 431.8  | 395.9  | 261.1  | 223.3  |
| 60°   | 23093.1 | 22787.7 | 20639.5 | 7815.7 | 1689.1 | 541.3  | 395.9  | 383.3  | 398.0  | 250.6  | 210.6  |
| 62.5° | 22511.8 | 21989.5 | 19740.2 | 7046.9 | 1476.4 | 497.0  | 351.7  | 313.8  | 351.7  | 225.4  | 187.5  |
| 65°   | 21389.2 | 20605.8 | 17960.6 | 5964.4 | 1392.1 | 471.8  | 299.1  | 263.2  | 267.4  | 198.0  | 162.1  |
| 67.5° | 19428.5 | 18440.8 | 15591.2 | 4846.1 | 1356.3 | 473.9  | 252.7  | 235.9  | 206.4  | 168.5  | 143.2  |
| 70°   | 16328.4 | 15342.7 | 12510.0 | 3986.8 | 1339.5 | 473.9  | 214.8  | 202.2  | 172.7  | 141.1  | 124.3  |
| 72.5° | 11570.7 | 10509.3 | 8439.0  | 3131.7 | 1206.8 | 471.8  | 183.3  | 183.3  | 141.1  | 117.9  | 101.1  |
| 75°   | 6537.3  | 6545.7  | 5305.2  | 2215.6 | 1002.5 | 389.6  | 147.4  | 145.3  | 103.2  | 90.6   | 75.9   |
| 77.5° | 3809.9  | 3742.4  | 3576.1  | 951.9  | 465.4  | 176.9  | 103.2  | 88.5   | 71.6   | 65.3   | 54.7   |
| 80°   | 1958.6  | 1611.1  | 1569.1  | 345.4  | 166.3  | 111.6  | 71.6   | 50.5   | 46.3   | 42.1   | 37.9   |
| 82.5° | 579.2   | 581.3   | 518.1   | 139.0  | 92.7   | 73.7   | 35.8   | 27.4   | 25.3   | 23.1   | 23.1   |
| 85°   | 40.0    | 25.3    | 29.5    | 42.1   | 56.9   | 29.5   | 2.1    | 6.3    | 6.3    | 8.4    | 10.5   |
| 87.5° | 4.2     | 2.1     | 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    |



REPORT NUMBER: P653445

CATALOG NUMBER: GLAN-SA6D-840-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 9157.2 | 9157.2 | 9157.2 | 9157.2 | 9157.2 | 9157.2 | 9157.2 | 9157.2 | 9157.2 | 9157.2 | 9157.2 |
| 2.5°  | 7579.8 | 7672.4 | 7499.7 | 7503.9 | 7360.7 | 7407.0 | 7238.6 | 7293.3 | 7194.3 | 7270.2 | 7493.4 |
| 5°    | 5703.2 | 5724.3 | 5585.3 | 5541.1 | 5562.1 | 5648.5 | 5682.2 | 5528.4 | 5593.7 | 5465.2 | 5456.8 |
| 7.5°  | 4018.4 | 4043.7 | 3963.6 | 3953.1 | 4104.8 | 4068.9 | 4134.2 | 3976.2 | 3826.7 | 3892.0 | 3772.0 |
| 10°   | 3121.2 | 3015.9 | 2851.6 | 2805.3 | 2775.8 | 2794.7 | 2794.7 | 2651.5 | 2630.5 | 2573.6 | 2660.0 |
| 12.5° | 2464.1 | 2335.6 | 2179.8 | 1969.2 | 1916.6 | 1912.3 | 1834.4 | 1708.0 | 1668.0 | 1619.6 | 1691.2 |
| 15°   | 1790.2 | 1737.5 | 1606.9 | 1489.0 | 1369.0 | 1345.8 | 1219.4 | 1116.3 | 979.3  | 960.3  | 954.0  |
| 17.5° | 1259.4 | 1181.5 | 1179.4 | 1112.0 | 1042.5 | 996.2  | 878.3  | 760.3  | 707.6  | 701.3  | 701.3  |
| 20°   | 943.5  | 916.1  | 871.9  | 863.5  | 842.4  | 789.8  | 684.5  | 621.3  | 596.0  | 598.1  | 606.5  |
| 22.5° | 794.0  | 775.1  | 735.0  | 716.0  | 707.6  | 661.3  | 583.4  | 541.3  | 528.7  | 528.7  | 530.8  |
| 25°   | 709.7  | 692.9  | 648.7  | 619.1  | 608.6  | 575.0  | 513.9  | 482.3  | 471.8  | 471.8  | 471.8  |
| 27.5° | 646.6  | 625.5  | 579.2  | 553.9  | 535.0  | 497.0  | 459.1  | 427.6  | 417.0  | 417.0  | 419.1  |
| 30°   | 602.3  | 579.2  | 537.1  | 503.3  | 473.9  | 440.2  | 408.6  | 381.2  | 368.5  | 366.4  | 368.5  |
| 32.5° | 543.4  | 522.3  | 480.2  | 459.1  | 425.5  | 385.4  | 360.1  | 334.9  | 322.2  | 324.4  | 322.2  |
| 35°   | 423.4  | 417.0  | 387.5  | 393.8  | 374.9  | 341.2  | 318.0  | 290.6  | 275.9  | 273.8  | 278.0  |
| 37.5° | 385.4  | 360.1  | 326.5  | 328.6  | 322.2  | 309.6  | 271.6  | 242.2  | 231.7  | 231.7  | 233.8  |
| 40°   | 355.9  | 330.7  | 292.8  | 273.8  | 275.9  | 275.9  | 235.9  | 204.3  | 193.8  | 191.7  | 195.9  |
| 42.5° | 330.7  | 305.4  | 263.2  | 231.7  | 223.3  | 233.8  | 200.1  | 168.5  | 157.9  | 153.7  | 157.9  |
| 45°   | 313.8  | 286.4  | 238.0  | 202.2  | 176.9  | 189.6  | 164.2  | 139.0  | 126.4  | 126.4  | 124.3  |
| 47.5° | 297.0  | 271.6  | 219.0  | 174.8  | 147.4  | 141.1  | 134.8  | 111.6  | 99.0   | 96.9   | 99.0   |
| 50°   | 282.2  | 256.9  | 198.0  | 151.6  | 124.3  | 109.5  | 109.5  | 88.5   | 80.1   | 75.9   | 78.0   |
| 52.5° | 267.4  | 240.1  | 179.0  | 134.8  | 107.4  | 88.5   | 78.0   | 71.6   | 65.3   | 63.2   | 65.3   |
| 55°   | 246.4  | 219.0  | 160.0  | 115.8  | 92.7   | 73.7   | 61.1   | 59.0   | 54.7   | 50.5   | 54.7   |
| 57.5° | 221.1  | 195.9  | 141.1  | 99.0   | 73.7   | 56.9   | 50.5   | 48.4   | 44.2   | 42.1   | 42.1   |
| 59°   | 206.4  | 183.3  | 130.6  | 86.4   | 65.3   | 50.5   | 46.3   | 44.2   | 40.0   | 35.8   | 37.9   |
| 60°   | 198.0  | 179.0  | 124.3  | 80.1   | 59.0   | 46.3   | 42.1   | 40.0   | 35.8   | 33.7   | 35.8   |
| 62.5° | 174.8  | 160.0  | 109.5  | 65.3   | 46.3   | 33.7   | 29.5   | 31.6   | 29.5   | 27.4   | 29.5   |
| 65°   | 153.7  | 141.1  | 92.7   | 50.5   | 35.8   | 23.1   | 21.0   | 27.4   | 25.3   | 23.1   | 25.3   |
| 67.5° | 136.9  | 122.1  | 78.0   | 37.9   | 25.3   | 12.6   | 14.7   | 23.1   | 23.1   | 21.0   | 23.1   |
| 70°   | 117.9  | 105.3  | 63.2   | 27.4   | 12.6   | 6.3    | 10.5   | 16.8   | 21.0   | 18.9   | 21.0   |
| 72.5° | 96.9   | 82.2   | 48.4   | 18.9   | 6.3    | 0.0    | 6.3    | 14.7   | 21.0   | 18.9   | 21.0   |
| 75°   | 75.9   | 61.1   | 35.8   | 10.5   | 0.0    | 0.0    | 2.1    | 12.6   | 21.0   | 18.9   | 21.0   |
| 77.5° | 54.7   | 44.2   | 21.0   | 2.1    | 0.0    | 0.0    | 2.1    | 12.6   | 21.0   | 18.9   | 21.0   |
| 80°   | 35.8   | 31.6   | 8.4    | 0.0    | 0.0    | 0.0    | 2.1    | 12.6   | 21.0   | 21.0   | 23.1   |
| 82.5° | 23.1   | 16.8   | 0.0    | 0.0    | 0.0    | 0.0    | 4.2    | 16.8   | 23.1   | 25.3   | 25.3   |
| 85°   | 10.5   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 8.4    | 21.0   | 27.4   | 27.4   | 27.4   |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 4.2    | 14.7   | 25.3   | 31.6   | 31.6   | 31.6   |
| 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: P653445

CATALOG NUMBER: GLAN-SA6D-840-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

|       | 185°   | 195°   | 205°   | 215°   | 225°   | 235°   | 245°   | 255°   | 265°    | 270°    | 275°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 9157.2 | 9157.2 | 9157.2 | 9157.2 | 9157.2 | 9157.2 | 9157.2 | 9157.2 | 9157.2  | 9157.2  | 9157.2  |
| 2.5°  | 7531.3 | 7664.0 | 7851.4 | 8140.0 | 8373.8 | 8742.3 | 9024.5 | 9409.9 | 9799.6  | 9917.5  | 10100.7 |
| 5°    | 5543.2 | 5713.8 | 6139.2 | 6526.7 | 6771.1 | 7550.2 | 8043.1 | 8820.2 | 9517.3  | 9852.2  | 10216.6 |
| 7.5°  | 3849.9 | 4052.1 | 4376.4 | 4917.7 | 5431.6 | 6065.5 | 6861.6 | 7750.3 | 8771.8  | 9249.8  | 9763.8  |
| 10°   | 2702.0 | 2954.9 | 3411.9 | 3856.2 | 4502.8 | 5105.1 | 5890.7 | 6872.1 | 7998.8  | 8563.3  | 9207.8  |
| 12.5° | 1705.9 | 1931.3 | 2535.7 | 3034.8 | 3841.4 | 4540.7 | 5265.2 | 6153.9 | 7459.7  | 8038.9  | 8714.9  |
| 15°   | 975.1  | 1164.6 | 1446.9 | 2087.1 | 2982.2 | 3906.8 | 4810.3 | 5842.3 | 7183.8  | 7897.7  | 8628.6  |
| 17.5° | 726.6  | 777.2  | 903.5  | 1265.8 | 2080.8 | 3161.2 | 4391.2 | 5747.5 | 7371.3  | 8209.5  | 9043.4  |
| 20°   | 610.7  | 644.5  | 703.4  | 846.6  | 1326.8 | 2434.6 | 3982.6 | 5764.3 | 7977.8  | 9030.8  | 9822.7  |
| 22.5° | 547.6  | 568.6  | 617.0  | 709.7  | 905.6  | 1773.3 | 3504.5 | 5863.3 | 8712.8  | 10039.6 | 10953.7 |
| 25°   | 480.2  | 507.5  | 549.7  | 629.7  | 754.0  | 1230.0 | 3032.7 | 6084.5 | 9742.6  | 11320.1 | 12179.4 |
| 27.5° | 427.6  | 452.8  | 494.9  | 568.6  | 661.3  | 939.3  | 2483.1 | 6273.9 | 10829.4 | 12609.0 | 13312.4 |
| 30°   | 374.9  | 400.1  | 442.3  | 501.2  | 585.5  | 760.3  | 1891.2 | 6385.6 | 11884.6 | 13575.8 | 14117.0 |
| 32.5° | 330.7  | 351.7  | 391.7  | 444.4  | 513.9  | 644.5  | 1491.1 | 6269.7 | 12691.2 | 14453.9 | 14816.2 |
| 35°   | 286.4  | 311.7  | 345.4  | 393.8  | 454.9  | 549.7  | 1240.5 | 5869.6 | 13384.1 | 15357.5 | 15488.0 |
| 37.5° | 240.1  | 269.5  | 305.4  | 349.6  | 398.0  | 505.4  | 996.2  | 5427.3 | 14125.4 | 16484.2 | 16269.4 |
| 40°   | 202.2  | 229.6  | 263.2  | 311.7  | 355.9  | 463.3  | 766.6  | 4955.6 | 14925.7 | 17541.5 | 17122.3 |
| 42.5° | 164.2  | 193.8  | 233.8  | 278.0  | 351.7  | 404.4  | 593.9  | 4467.0 | 15643.9 | 18461.8 | 17893.2 |
| 45°   | 130.6  | 155.8  | 198.0  | 254.8  | 349.6  | 347.5  | 459.1  | 3984.7 | 16185.1 | 19118.9 | 18468.1 |
| 47.5° | 103.2  | 124.3  | 166.3  | 248.5  | 322.2  | 294.9  | 368.5  | 3685.6 | 16753.8 | 19710.7 | 18908.3 |
| 50°   | 82.2   | 103.2  | 143.2  | 259.0  | 282.2  | 252.7  | 309.6  | 3734.0 | 17303.5 | 20011.8 | 19089.4 |
| 52.5° | 69.5   | 90.6   | 124.3  | 204.3  | 216.9  | 221.1  | 271.6  | 3957.3 | 18013.2 | 20334.1 | 19449.6 |
| 55°   | 61.1   | 80.1   | 105.3  | 143.2  | 168.5  | 198.0  | 248.5  | 4119.5 | 18963.0 | 21024.9 | 20243.5 |
| 57.5° | 48.4   | 69.5   | 94.8   | 122.1  | 139.0  | 172.7  | 229.6  | 4132.1 | 19822.4 | 21911.6 | 21298.7 |
| 59°   | 44.2   | 63.2   | 88.5   | 115.8  | 124.3  | 155.8  | 216.9  | 4024.7 | 19853.9 | 22044.2 | 21783.1 |
| 60°   | 40.0   | 61.1   | 84.3   | 107.4  | 117.9  | 147.4  | 206.4  | 3900.5 | 19567.5 | 21833.6 | 21983.2 |
| 62.5° | 33.7   | 52.6   | 73.7   | 86.4   | 101.1  | 122.1  | 179.0  | 3449.8 | 18179.6 | 20879.6 | 21612.5 |
| 65°   | 29.5   | 46.3   | 63.2   | 71.6   | 84.3   | 105.3  | 157.9  | 2761.1 | 16646.4 | 19586.5 | 20551.0 |
| 67.5° | 27.4   | 42.1   | 54.7   | 61.1   | 73.7   | 96.9   | 141.1  | 1950.2 | 14660.4 | 17945.8 | 18956.7 |
| 70°   | 25.3   | 40.0   | 48.4   | 56.9   | 65.3   | 82.2   | 120.0  | 1137.3 | 11292.8 | 15069.0 | 16136.7 |
| 72.5° | 25.3   | 37.9   | 42.1   | 48.4   | 56.9   | 73.7   | 111.6  | 614.9  | 7720.9  | 11495.0 | 12874.4 |
| 75°   | 25.3   | 35.8   | 37.9   | 42.1   | 50.5   | 67.4   | 99.0   | 322.2  | 4991.4  | 7986.2  | 9856.4  |
| 77.5° | 25.3   | 33.7   | 37.9   | 40.0   | 48.4   | 59.0   | 86.4   | 202.2  | 3325.5  | 5593.7  | 6661.5  |
| 80°   | 27.4   | 33.7   | 35.8   | 40.0   | 46.3   | 54.7   | 71.6   | 134.8  | 1954.4  | 3365.5  | 4054.2  |
| 82.5° | 29.5   | 33.7   | 37.9   | 42.1   | 48.4   | 52.6   | 63.2   | 84.3   | 901.4   | 2226.1  | 2518.9  |
| 85°   | 31.6   | 35.8   | 40.0   | 44.2   | 50.5   | 52.6   | 59.0   | 61.1   | 147.4   | 1004.6  | 1358.4  |
| 87.5° | 33.7   | 37.9   | 42.1   | 46.3   | 54.7   | 54.7   | 54.7   | 54.7   | 50.5    | 107.4   | 273.8   |
| 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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|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 9157.2  | 9157.2  | 9157.2  | 9157.2  | 9157.2  | 9157.2  | 9157.2  | 9157.2  | 9157.2  | 9157.2  |
| 2.5°  | 10332.4 | 10570.4 | 10736.7 | 10778.8 | 10658.8 | 10604.1 | 10452.5 | 10216.6 | 10073.3 | 10067.0 |
| 5°    | 10888.4 | 11446.5 | 11834.0 | 11899.3 | 11667.6 | 11275.9 | 10810.5 | 10210.2 | 9858.5  | 9753.2  |
| 7.5°  | 10793.6 | 11770.8 | 12394.2 | 12484.8 | 12095.2 | 11347.5 | 10446.1 | 9479.4  | 9096.1  | 8933.9  |
| 10°   | 10404.0 | 11596.0 | 12486.9 | 12630.1 | 12109.9 | 11056.9 | 9911.2  | 8832.9  | 8356.8  | 8232.6  |
| 12.5° | 10071.2 | 11275.9 | 12067.8 | 12265.7 | 11871.9 | 10821.0 | 9591.0  | 8418.0  | 7908.3  | 7792.5  |
| 15°   | 9925.9  | 10896.8 | 11381.2 | 11482.3 | 11417.0 | 10673.6 | 9557.4  | 8354.7  | 7771.4  | 7645.0  |
| 17.5° | 10071.2 | 10574.6 | 10635.6 | 10738.9 | 10884.1 | 10658.8 | 9881.7  | 8698.0  | 8068.4  | 7912.5  |
| 20°   | 10452.5 | 10294.5 | 10041.7 | 10085.9 | 10418.7 | 10719.9 | 10458.8 | 9458.4  | 8691.7  | 8525.4  |
| 22.5° | 11101.1 | 10225.0 | 9652.2  | 9614.2  | 10035.4 | 10924.2 | 11305.4 | 10488.2 | 9599.5  | 9435.2  |
| 25°   | 11897.2 | 10399.8 | 9508.9  | 9426.8  | 9885.9  | 11223.2 | 12225.7 | 11749.8 | 10778.8 | 10528.2 |
| 27.5° | 12764.9 | 10762.0 | 9508.9  | 9428.9  | 9873.3  | 11488.6 | 13013.4 | 12866.0 | 12000.4 | 11726.6 |
| 30°   | 13240.9 | 11061.1 | 9645.8  | 9555.3  | 10029.1 | 11642.4 | 13434.6 | 13857.9 | 12918.6 | 12579.6 |
| 32.5° | 13666.3 | 11475.9 | 9913.3  | 9742.6  | 10355.6 | 11869.8 | 13811.6 | 14700.3 | 13649.4 | 13422.0 |
| 35°   | 14058.0 | 11920.3 | 10281.8 | 10083.8 | 10785.2 | 12181.5 | 14228.6 | 15584.9 | 14666.7 | 14323.4 |
| 37.5° | 14489.8 | 12436.4 | 10856.8 | 10688.3 | 11503.4 | 12788.1 | 14723.6 | 16747.5 | 15667.1 | 15235.3 |
| 40°   | 14959.5 | 13034.5 | 11802.4 | 11730.9 | 12644.9 | 13474.7 | 15349.0 | 17988.0 | 16808.6 | 16317.8 |
| 42.5° | 15437.5 | 13723.2 | 12960.7 | 13078.7 | 13938.0 | 14437.1 | 15991.4 | 18942.0 | 17743.7 | 17202.4 |
| 45°   | 15871.4 | 14603.5 | 14466.6 | 15049.9 | 15445.9 | 15376.4 | 16467.4 | 19613.8 | 18558.7 | 18040.6 |
| 47.5° | 16418.9 | 15886.1 | 16288.3 | 17187.7 | 17198.2 | 16397.9 | 16827.5 | 20163.6 | 19260.0 | 18741.9 |
| 50°   | 17031.8 | 17400.4 | 18640.8 | 19557.0 | 19310.5 | 17402.5 | 17248.7 | 20814.3 | 19984.5 | 19569.6 |
| 52.5° | 17741.6 | 19095.7 | 20814.3 | 21831.5 | 21256.6 | 18497.6 | 17950.1 | 21517.7 | 21134.4 | 20736.4 |
| 55°   | 18567.1 | 20252.0 | 22981.4 | 23792.3 | 23213.1 | 19858.1 | 19015.7 | 22471.8 | 22433.8 | 22162.2 |
| 57.5° | 19500.1 | 21473.5 | 24236.7 | 25333.9 | 24817.9 | 21454.6 | 20504.7 | 23371.1 | 23227.8 | 23076.2 |
| 59°   | 20237.2 | 22101.1 | 24790.6 | 25927.9 | 25616.1 | 22572.9 | 21505.1 | 23931.3 | 23411.1 | 23183.6 |
| 60°   | 20683.7 | 22526.5 | 24994.9 | 26007.8 | 25936.3 | 23238.4 | 22139.0 | 24205.1 | 23409.0 | 23093.1 |
| 62.5° | 22008.5 | 23270.0 | 24916.9 | 25651.9 | 25932.1 | 24514.6 | 23998.7 | 24506.2 | 22975.1 | 22511.8 |
| 65°   | 22480.2 | 23023.6 | 23625.9 | 23535.4 | 23775.4 | 24449.4 | 25186.5 | 24175.6 | 22048.5 | 21389.2 |
| 67.5° | 21562.0 | 20321.5 | 20534.2 | 19929.8 | 19811.8 | 21736.7 | 24704.2 | 22558.1 | 20235.1 | 19428.5 |
| 70°   | 18175.4 | 15568.1 | 15460.7 | 15738.6 | 14976.3 | 17598.3 | 22183.2 | 19443.2 | 17242.4 | 16328.4 |
| 72.5° | 14306.5 | 11002.1 | 10096.5 | 11120.0 | 11096.9 | 13426.2 | 18428.2 | 13796.9 | 11648.7 | 11570.7 |
| 75°   | 11250.6 | 7659.7  | 6722.6  | 6889.0  | 7209.1  | 9719.5  | 14677.2 | 8761.3  | 7173.3  | 6537.3  |
| 77.5° | 7552.3  | 5427.3  | 5063.0  | 4858.7  | 5204.1  | 6240.3  | 9285.6  | 4751.3  | 4022.6  | 3809.9  |
| 80°   | 4353.3  | 3942.5  | 4477.5  | 4064.7  | 4250.1  | 3932.0  | 4618.6  | 2179.8  | 1809.1  | 1958.6  |
| 82.5° | 2832.7  | 2245.0  | 2392.5  | 1777.5  | 2430.4  | 2451.4  | 1482.7  | 644.5   | 545.5   | 579.2   |
| 85°   | 1771.2  | 1053.0  | 591.8   | 421.2   | 838.2   | 1541.6  | 463.3   | 40.0    | 46.3    | 40.0    |
| 87.5° | 459.1   | 174.8   | 73.7    | 109.5   | 134.8   | 120.0   | 107.4   | 6.3     | 2.1     | 4.2     |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)