

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: P653639

Luminaire Tested: **GLAN-SA1A-840-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P653639  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA1A-840-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS  
WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2030.2 lumens  
Efficiency: N/A  
Efficacy: 61.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B1 - U0 - G0

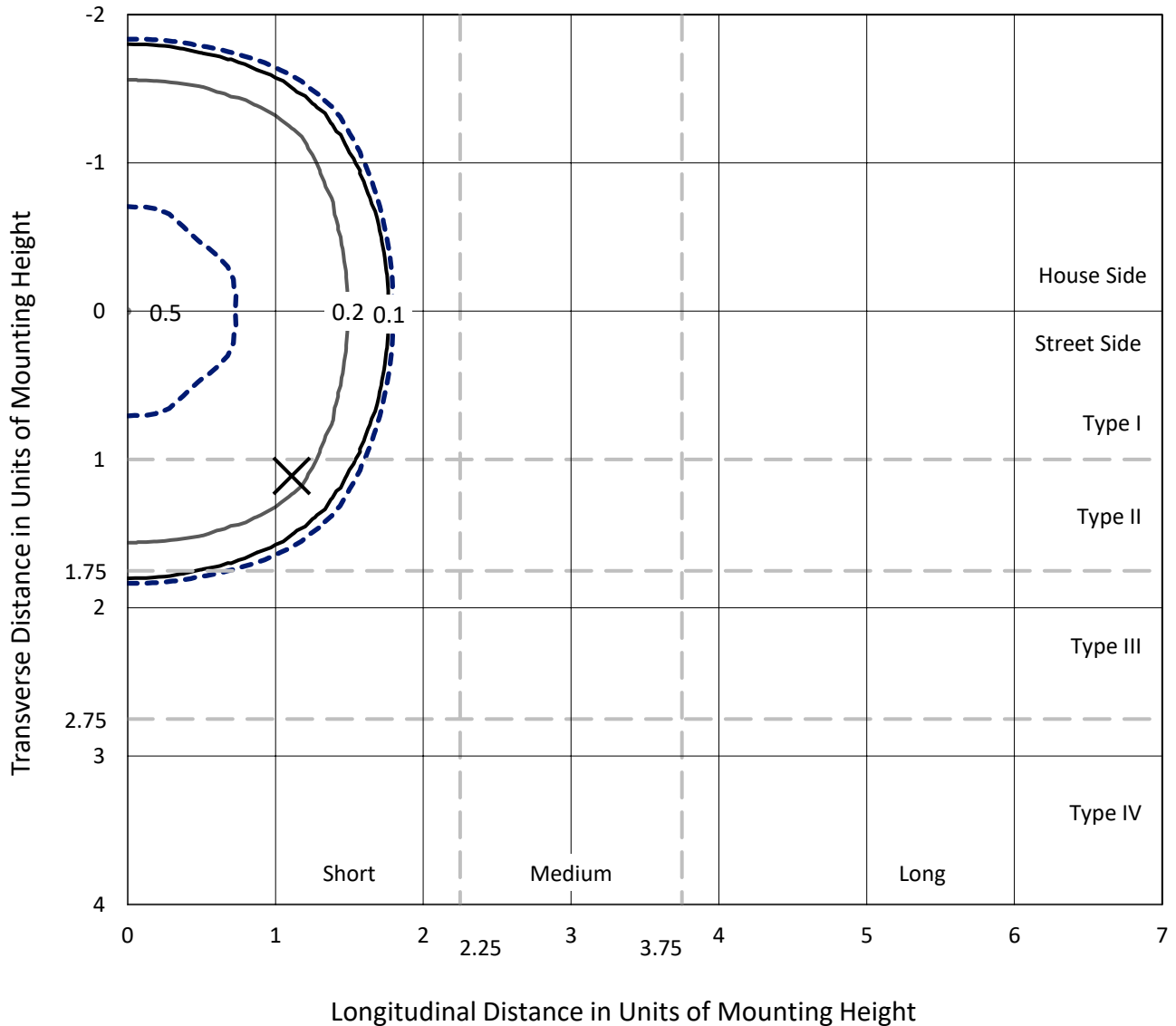
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

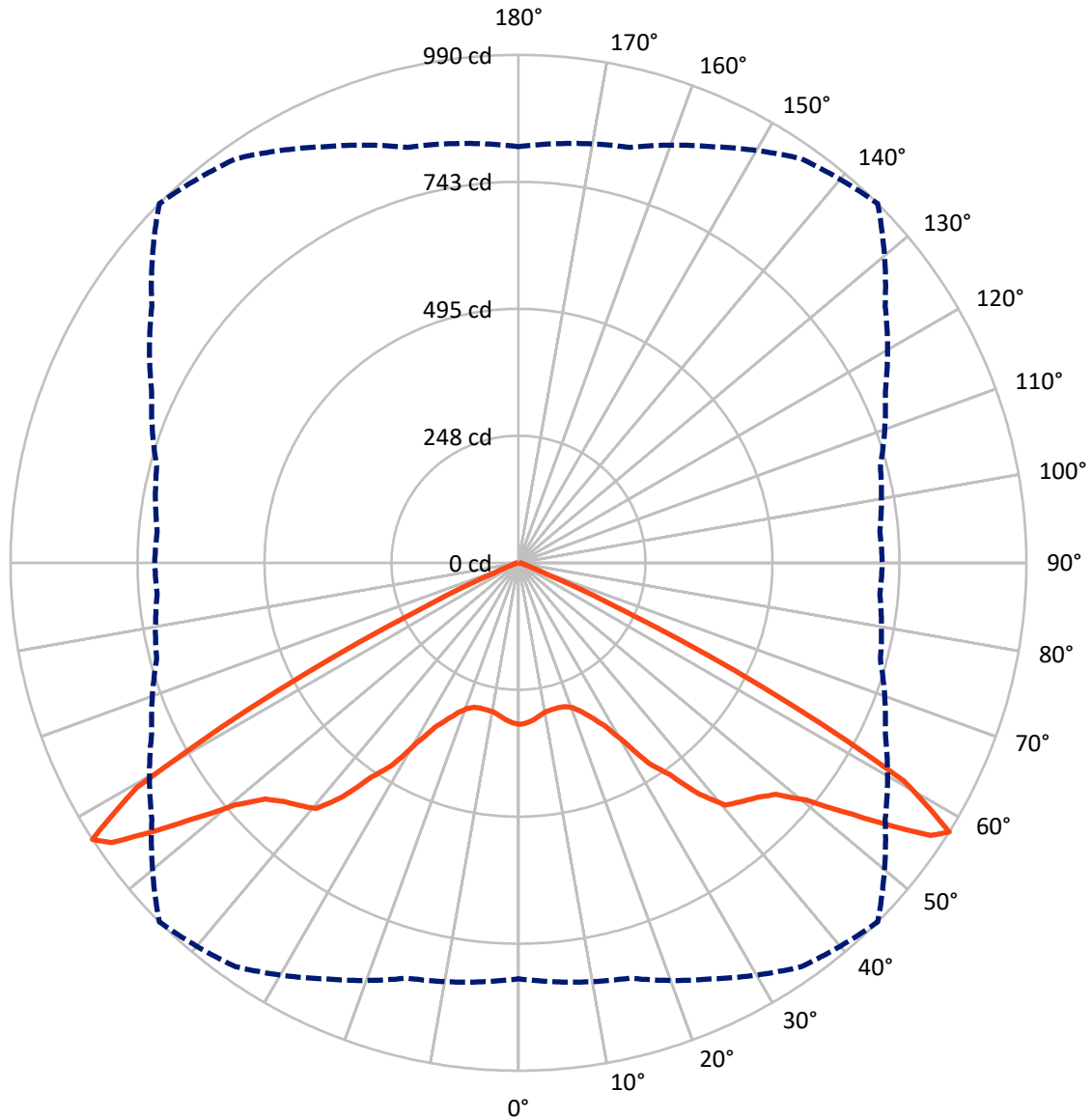
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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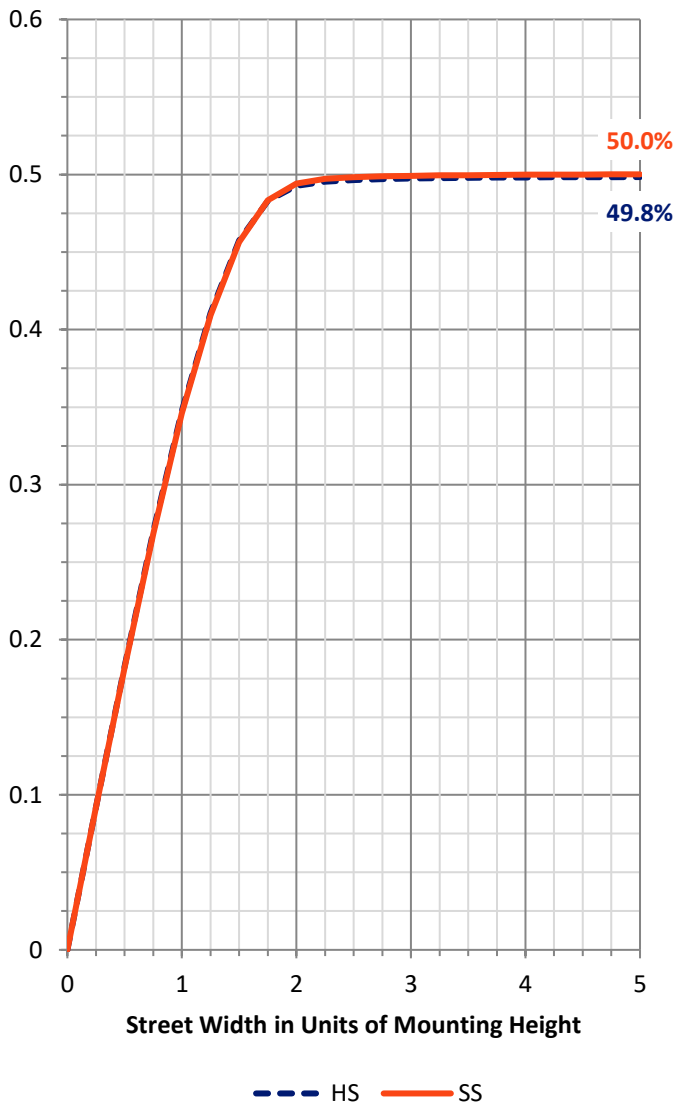
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1015.1   | 0.0    | 1015.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1015.1   | 0.0    | 1015.1 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 2030.2   | 0.0    | 2030.2 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 28.9   | 1.4       |
| 10°-20°   | 83.6   | 4.1       |
| 20°-30°   | 154.4  | 7.6       |
| 30°-40°   | 303.6  | 15.0      |
| 40°-50°   | 494.5  | 24.4      |
| 50°-60°   | 705.3  | 34.7      |
| 60°-70°   | 244.2  | 12.0      |
| 70°-80°   | 13.1   | 0.6       |
| 80°-90°   | 2.5    | 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°    | 2030.2 | 100.0     |
| 0°-180°   | 2030.2 | 100.0     |

**Coefficient of Utilization**

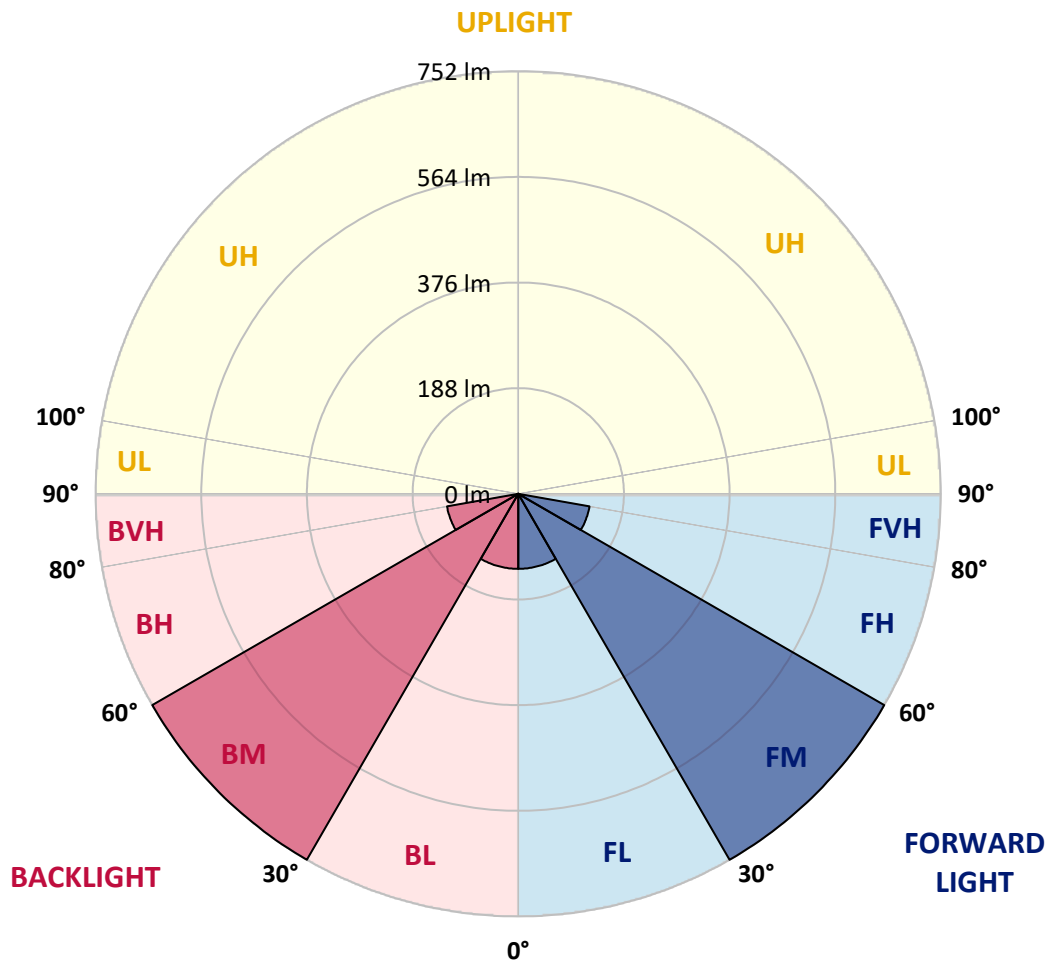


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 133.5  | 6.6       |                         |      |        |
| FM (30°-60°)   | 751.7  | 37.0      |                         |      |        |
| FH (60°-80°)   | 128.6  | 6.3       |                         |      | G0/660 |
| FVH (80°-90°)  | 1.2    | 0.1       |                         |      | G0/10  |
| BL (0°-30°)    | 133.5  | 6.6       | B1/500                  |      |        |
| BM (30°-60°)   | 751.7  | 37.0      | B1/1000                 |      |        |
| BH (60°-80°)   | 128.6  | 6.3       | B1/500                  |      | G0/660 |
| BVH (80°-90°)  | 1.2    | 0.1       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B1-U0-G0**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    | 5°    | 15°   | 25°   | 35°   | 45°   | 55°   | 65°   | 75°   | 85°   | 90°   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 314.9 | 314.9 | 314.9 | 314.9 | 314.9 | 314.9 | 314.9 | 314.9 | 314.9 | 314.9 | 314.9 |
| 2.5°  | 314.0 | 315.7 | 313.6 | 312.8 | 312.3 | 312.3 | 311.1 | 311.1 | 310.7 | 311.1 | 309.4 |
| 5°    | 309.0 | 310.7 | 310.7 | 310.2 | 307.7 | 307.3 | 306.0 | 305.2 | 305.6 | 303.9 | 305.2 |
| 7.5°  | 303.9 | 305.2 | 303.4 | 303.0 | 302.2 | 300.5 | 300.1 | 296.3 | 296.7 | 296.7 | 297.5 |
| 10°   | 303.0 | 302.6 | 300.1 | 298.0 | 295.4 | 295.0 | 293.8 | 292.9 | 292.9 | 292.5 | 293.8 |
| 12.5° | 303.0 | 300.9 | 300.5 | 295.9 | 291.7 | 293.3 | 289.9 | 287.8 | 290.7 | 291.7 | 293.3 |
| 15°   | 302.6 | 304.8 | 297.5 | 295.4 | 292.5 | 292.9 | 289.9 | 287.8 | 289.5 | 290.3 | 291.7 |
| 17.5° | 305.2 | 303.9 | 301.8 | 297.5 | 296.3 | 294.6 | 290.7 | 289.1 | 289.1 | 291.2 | 291.7 |
| 20°   | 311.9 | 308.6 | 304.4 | 302.2 | 303.4 | 301.3 | 296.7 | 290.3 | 292.1 | 293.8 | 295.0 |
| 22.5° | 318.3 | 315.7 | 312.8 | 311.5 | 318.7 | 315.3 | 307.3 | 300.1 | 297.5 | 300.5 | 302.6 |
| 25°   | 330.6 | 330.6 | 325.0 | 326.7 | 334.8 | 335.2 | 325.9 | 313.2 | 311.5 | 312.8 | 313.6 |
| 27.5° | 355.6 | 356.8 | 352.1 | 353.8 | 357.3 | 360.2 | 352.1 | 341.5 | 337.7 | 337.3 | 338.6 |
| 30°   | 382.7 | 385.2 | 384.8 | 391.9 | 401.7 | 403.3 | 391.5 | 374.2 | 362.7 | 360.6 | 362.3 |
| 32.5° | 418.1 | 419.4 | 418.6 | 427.1 | 453.3 | 465.6 | 434.7 | 410.2 | 394.9 | 398.7 | 394.9 |
| 35°   | 485.1 | 483.7 | 474.5 | 476.2 | 497.8 | 506.6 | 477.0 | 461.4 | 454.1 | 461.8 | 460.1 |
| 37.5° | 542.6 | 538.0 | 530.3 | 541.4 | 563.8 | 571.8 | 540.9 | 513.4 | 500.3 | 513.0 | 518.5 |
| 40°   | 591.3 | 579.4 | 568.9 | 579.9 | 609.9 | 620.9 | 575.7 | 553.2 | 548.1 | 557.4 | 569.3 |
| 42.5° | 632.3 | 624.7 | 610.7 | 611.6 | 631.5 | 636.6 | 600.1 | 587.0 | 582.0 | 596.8 | 602.7 |
| 45°   | 661.5 | 654.4 | 641.3 | 640.4 | 655.6 | 652.2 | 619.6 | 610.7 | 613.7 | 623.4 | 626.4 |
| 47.5° | 676.3 | 680.2 | 672.5 | 674.7 | 682.7 | 674.7 | 648.8 | 648.8 | 642.1 | 648.0 | 645.0 |
| 50°   | 719.1 | 707.3 | 717.0 | 717.0 | 725.4 | 726.3 | 700.5 | 691.1 | 673.0 | 662.8 | 662.8 |
| 52.5° | 769.1 | 769.9 | 773.7 | 787.7 | 802.1 | 814.3 | 777.5 | 737.7 | 707.3 | 694.2 | 692.5 |
| 55°   | 810.1 | 818.5 | 833.9 | 860.1 | 901.6 | 918.5 | 855.0 | 783.9 | 746.6 | 726.3 | 722.1 |
| 56°   | 832.5 | 824.5 | 850.8 | 886.8 | 940.9 | 962.9 | 867.7 | 793.1 | 752.1 | 729.2 | 728.8 |
| 57.5° | 811.0 | 819.8 | 838.1 | 894.7 | 961.2 | 990.0 | 872.3 | 788.9 | 730.1 | 706.9 | 709.0 |
| 60°   | 640.4 | 648.8 | 673.4 | 736.9 | 841.0 | 863.5 | 738.1 | 650.5 | 598.0 | 564.6 | 565.1 |
| 62.5° | 362.3 | 368.7 | 387.7 | 446.6 | 511.3 | 532.9 | 460.1 | 401.7 | 365.2 | 346.7 | 340.7 |
| 65°   | 133.3 | 130.8 | 133.7 | 163.8 | 203.6 | 221.8 | 191.3 | 161.7 | 142.6 | 135.9 | 133.3 |
| 67.5° | 50.0  | 46.2  | 43.1  | 46.2  | 57.9  | 61.4  | 56.3  | 47.0  | 44.0  | 45.3  | 46.2  |
| 70°   | 30.9  | 29.2  | 23.3  | 22.0  | 21.6  | 21.2  | 22.5  | 23.7  | 27.1  | 31.7  | 32.6  |
| 72.5° | 21.6  | 20.4  | 16.5  | 15.6  | 14.8  | 14.4  | 16.5  | 18.2  | 21.2  | 24.6  | 25.0  |
| 75°   | 8.5   | 8.9   | 8.5   | 9.3   | 9.8   | 10.2  | 11.9  | 13.1  | 14.4  | 14.4  | 14.0  |
| 77.5° | 1.7   | 1.7   | 2.5   | 3.4   | 4.2   | 5.5   | 8.1   | 9.3   | 9.8   | 9.3   | 8.1   |
| 80°   | 0.0   | 0.0   | 0.8   | 1.7   | 3.4   | 4.6   | 7.2   | 8.1   | 8.9   | 8.1   | 6.3   |
| 82.5° | 0.0   | 0.0   | 0.8   | 2.1   | 3.4   | 4.2   | 6.8   | 8.5   | 9.8   | 8.9   | 6.8   |
| 85°   | 0.0   | 0.0   | 0.8   | 1.7   | 2.5   | 2.9   | 2.9   | 2.1   | 2.1   | 1.3   | 0.8   |
| 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   |

(END OF REPORT)