

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: McGRAW-EDISON

Report Number: P526175

Luminaire Tested: **GALN-SA1A-760-U-RW-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526175  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-760-U-RW-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 16 LEDS AND RECTANGULAR WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2990 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G0

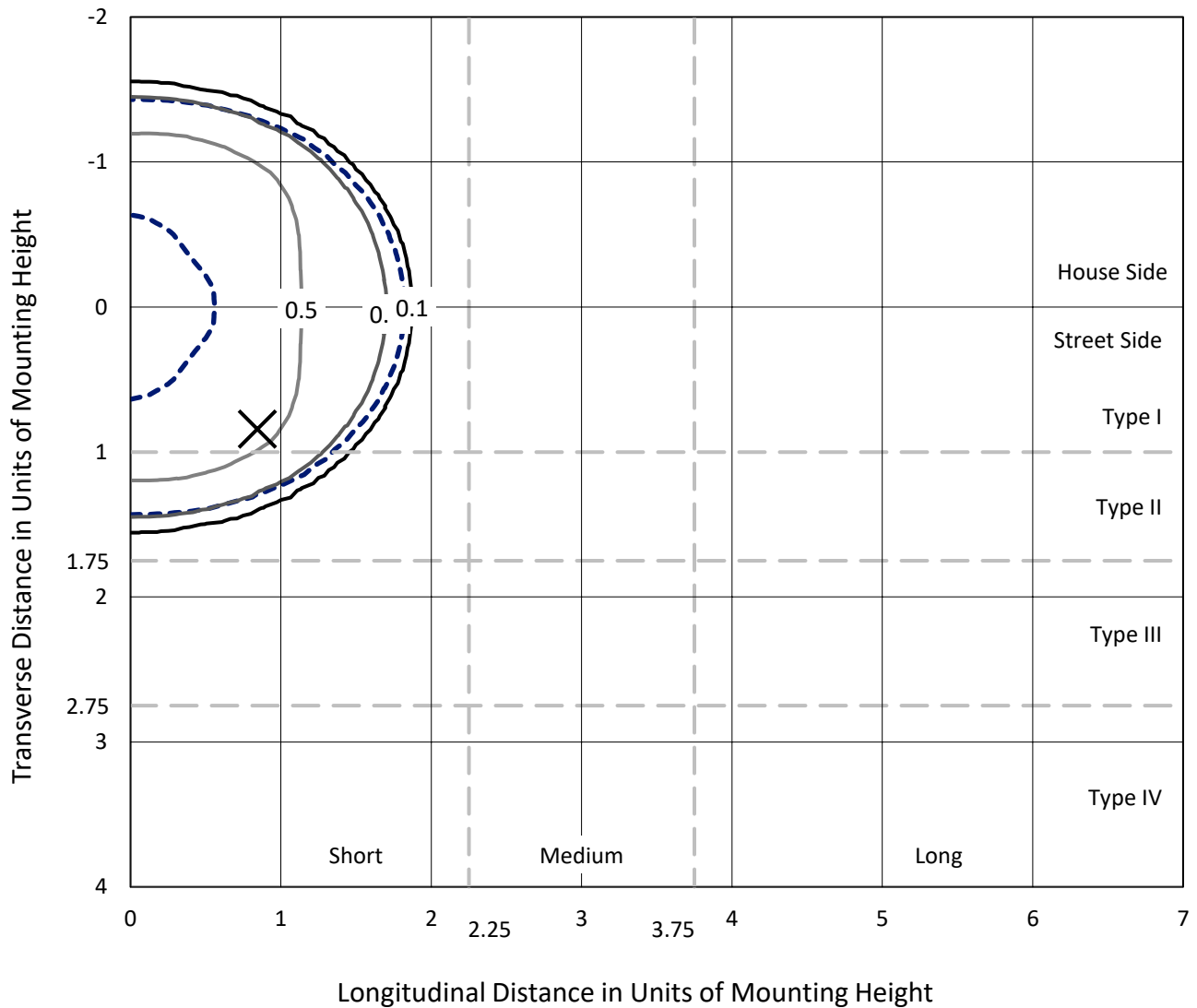
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

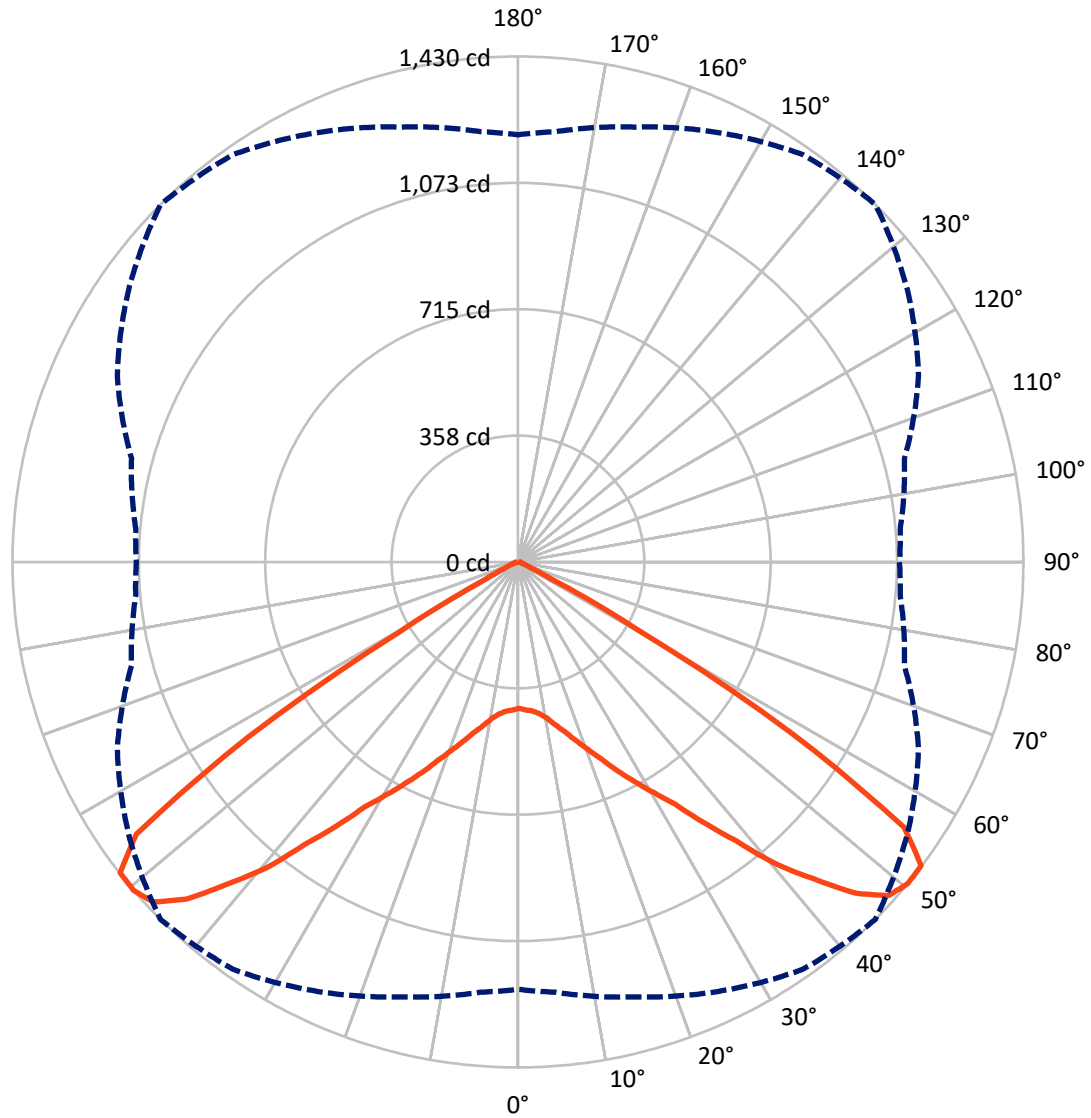
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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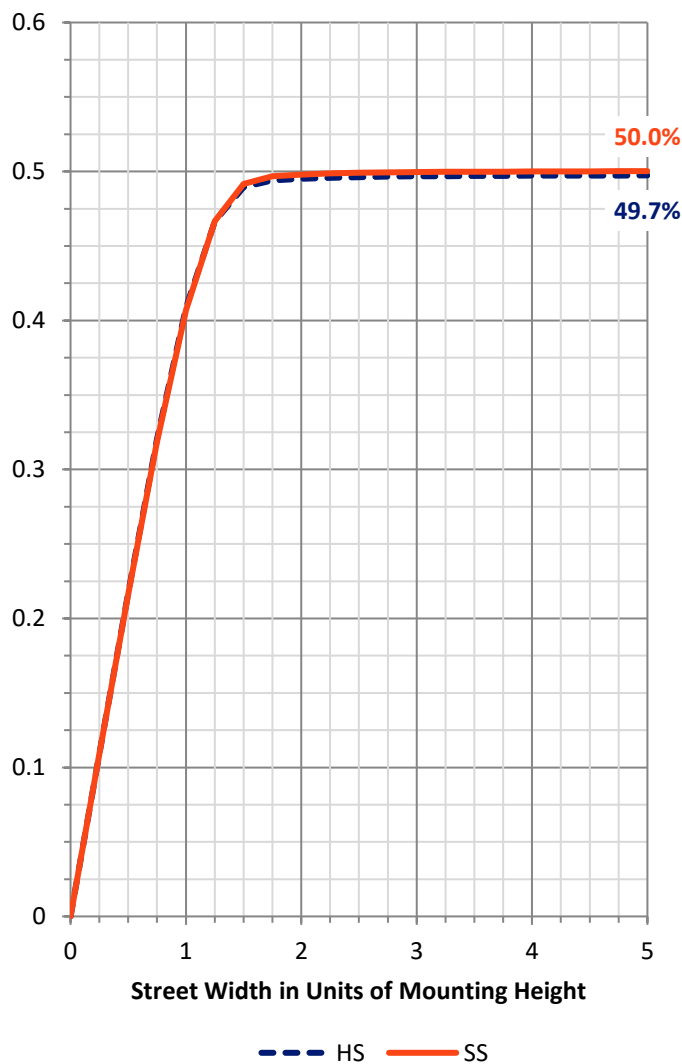
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1495.0   | 0.0    | 1495.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 1495.0   | 0.0    | 1495.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 2990.0   | 0.0    | 2990.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 41.2   | 1.4       |
| 10°-20°   | 142.1  | 4.8       |
| 20°-30°   | 290.3  | 9.7       |
| 30°-40°   | 553.6  | 18.5      |
| 40°-50°   | 932.9  | 31.2      |
| 50°-60°   | 889.7  | 29.8      |
| 60°-70°   | 124.2  | 4.2       |
| 70°-80°   | 11.9   | 0.4       |
| 80°-90°   | 4.1    | 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°    | 2990.0 | 100.0     |
| 0°-180°   | 2990.0 | 100.0     |

**Coefficient of Utilization**



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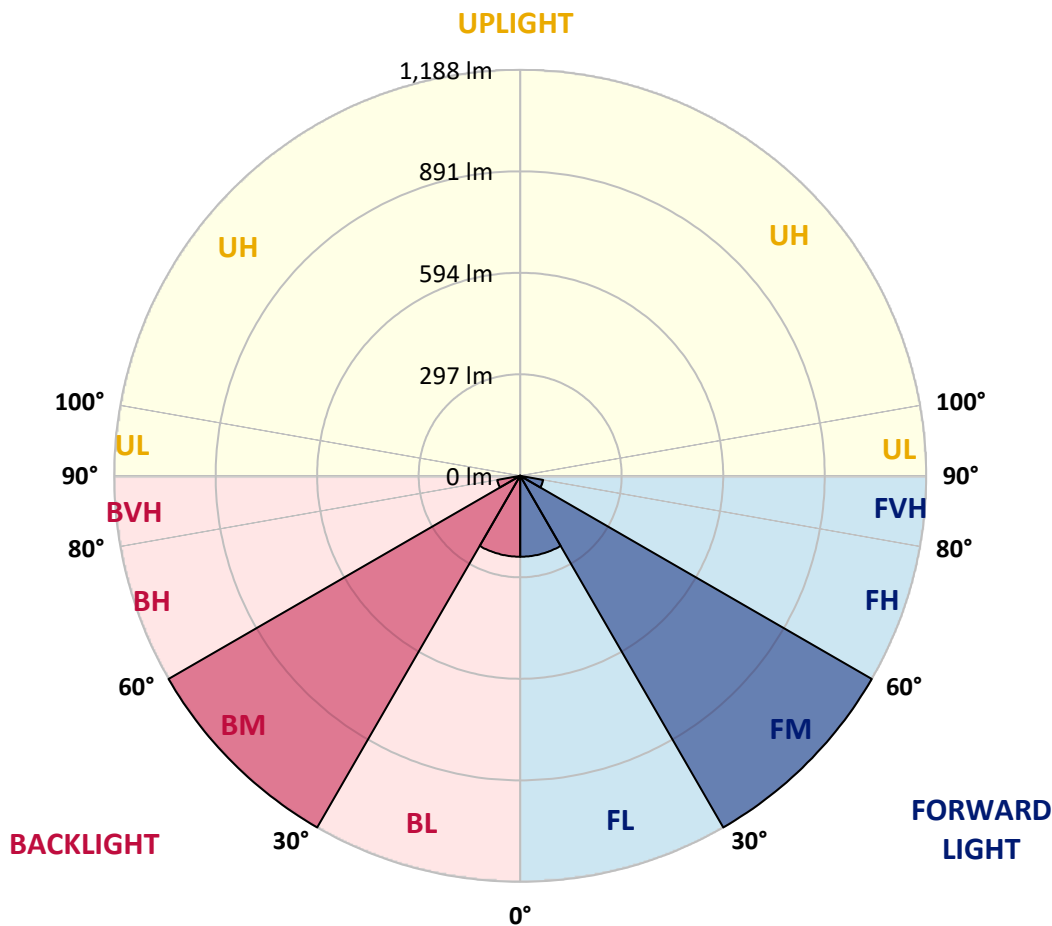
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |        |
|----------------|--------|-----------|-------------------------|------|--------|
|                |        |           | B                       | U    | G      |
| FL (0°-30°)    | 236.8  | 7.9       |                         |      |        |
| FM (30°-60°)   | 1188.1 | 39.7      |                         |      |        |
| FH (60°-80°)   | 68.0   | 2.3       |                         |      | G0/660 |
| FVH (80°-90°)  | 2.1    | 0.1       |                         |      | G0/10  |
| BL (0°-30°)    | 236.8  | 7.9       | B1/500                  |      |        |
| BM (30°-60°)   | 1188.1 | 39.7      | B2/2500                 |      |        |
| BH (60°-80°)   | 68.0   | 2.3       | B0/110                  |      | G0/660 |
| BVH (80°-90°)  | 2.1    | 0.1       |                         |      | G0/10  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |        |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |        |

**BUG Rating: B2-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 414.5  | 414.5  | 414.5  | 414.5  | 414.5  | 414.5  | 414.5  | 414.5  | 414.5  | 414.5  | 414.5  |
| 2.5°  | 413.0  | 413.0  | 412.5  | 416.5  | 414.5  | 419.1  | 418.6  | 420.1  | 421.6  | 421.1  | 425.1  |
| 5°    | 409.5  | 409.0  | 409.0  | 413.5  | 418.1  | 423.1  | 427.6  | 430.6  | 435.7  | 435.7  | 440.7  |
| 7.5°  | 413.0  | 410.5  | 414.0  | 416.0  | 424.6  | 433.1  | 440.7  | 446.7  | 458.3  | 462.3  | 460.8  |
| 10°   | 414.0  | 417.0  | 419.6  | 425.6  | 436.2  | 449.2  | 455.8  | 470.9  | 484.0  | 493.0  | 495.0  |
| 12.5° | 420.6  | 425.1  | 432.1  | 446.7  | 456.3  | 473.4  | 482.4  | 497.0  | 515.1  | 525.2  | 532.2  |
| 15°   | 433.1  | 434.7  | 443.7  | 462.3  | 482.9  | 498.5  | 512.6  | 523.2  | 540.8  | 552.4  | 552.9  |
| 17.5° | 449.2  | 455.8  | 468.4  | 486.0  | 507.6  | 530.7  | 541.8  | 553.4  | 559.9  | 575.5  | 579.0  |
| 20°   | 481.4  | 482.4  | 494.5  | 517.7  | 544.8  | 566.0  | 574.0  | 580.0  | 577.5  | 593.6  | 596.6  |
| 22.5° | 511.6  | 512.6  | 527.7  | 558.9  | 588.1  | 606.2  | 609.7  | 606.2  | 598.7  | 610.2  | 611.2  |
| 25°   | 542.3  | 551.4  | 562.4  | 593.6  | 629.8  | 654.0  | 654.5  | 644.9  | 629.3  | 631.4  | 636.4  |
| 27.5° | 590.1  | 596.6  | 608.2  | 636.9  | 676.6  | 703.8  | 699.3  | 687.7  | 667.6  | 669.1  | 667.6  |
| 30°   | 645.9  | 652.0  | 661.5  | 698.3  | 727.4  | 757.1  | 763.7  | 752.6  | 722.4  | 715.9  | 723.4  |
| 32.5° | 713.4  | 721.9  | 739.5  | 773.2  | 797.9  | 816.0  | 820.5  | 816.5  | 788.3  | 785.8  | 790.8  |
| 35°   | 795.4  | 806.9  | 823.0  | 852.7  | 872.8  | 905.5  | 905.5  | 891.9  | 866.3  | 869.3  | 868.8  |
| 37.5° | 881.9  | 899.0  | 924.1  | 954.3  | 981.5  | 999.1  | 993.6  | 982.0  | 956.3  | 949.8  | 956.3  |
| 40°   | 990.5  | 999.1  | 1030.8 | 1070.0 | 1103.2 | 1123.4 | 1099.7 | 1074.6 | 1013.2 | 1022.7 | 1040.4 |
| 42.5° | 1089.7 | 1103.2 | 1127.4 | 1170.6 | 1208.4 | 1225.0 | 1196.8 | 1147.0 | 1073.1 | 1065.5 | 1078.6 |
| 45°   | 1174.2 | 1188.8 | 1220.5 | 1282.3 | 1322.1 | 1336.7 | 1274.3 | 1193.8 | 1109.3 | 1090.2 | 1095.7 |
| 47.5° | 1230.5 | 1238.1 | 1282.3 | 1341.2 | 1377.4 | 1410.6 | 1321.1 | 1226.0 | 1126.4 | 1090.2 | 1088.1 |
| 50°   | 1208.9 | 1222.0 | 1273.8 | 1340.7 | 1406.6 | 1430.2 | 1344.7 | 1250.6 | 1131.9 | 1085.6 | 1079.6 |
| 52.5° | 1073.6 | 1096.2 | 1154.0 | 1244.1 | 1343.7 | 1428.2 | 1377.4 | 1242.6 | 1129.9 | 1090.2 | 1099.2 |
| 55°   | 747.1  | 747.6  | 818.0  | 950.8  | 1126.9 | 1326.1 | 1329.6 | 1251.6 | 1143.0 | 1118.3 | 1118.8 |
| 57.5° | 300.3  | 315.4  | 369.3  | 502.6  | 665.1  | 910.6  | 1082.6 | 1161.1 | 1144.5 | 1138.4 | 1154.0 |
| 60°   | 76.0   | 76.5   | 93.1   | 141.9  | 233.9  | 390.4  | 567.0  | 767.2  | 883.4  | 923.1  | 928.7  |
| 62.5° | 38.7   | 39.2   | 43.3   | 50.3   | 63.9   | 104.6  | 186.1  | 295.3  | 420.1  | 483.5  | 500.1  |
| 65°   | 31.7   | 31.7   | 34.2   | 37.7   | 38.2   | 40.2   | 48.3   | 68.9   | 100.1  | 113.7  | 115.2  |
| 67.5° | 24.1   | 24.1   | 26.2   | 28.2   | 29.2   | 28.7   | 27.7   | 28.7   | 34.7   | 33.2   | 32.2   |
| 70°   | 15.1   | 15.6   | 16.6   | 18.6   | 19.6   | 20.1   | 20.6   | 21.6   | 24.7   | 25.7   | 24.7   |
| 72.5° | 9.1    | 9.1    | 9.6    | 11.1   | 12.6   | 13.6   | 15.1   | 16.1   | 17.6   | 20.1   | 19.6   |
| 75°   | 4.0    | 4.0    | 5.0    | 6.5    | 8.0    | 9.6    | 11.1   | 12.6   | 13.6   | 15.1   | 15.6   |
| 77.5° | 1.0    | 1.5    | 2.5    | 4.5    | 6.0    | 8.0    | 10.1   | 11.6   | 12.6   | 12.6   | 12.1   |
| 80°   | 0.5    | 0.5    | 2.0    | 3.5    | 6.5    | 8.6    | 11.1   | 12.1   | 13.6   | 12.6   | 11.1   |
| 82.5° | 0.5    | 0.5    | 2.0    | 3.5    | 6.0    | 8.6    | 11.6   | 13.1   | 14.1   | 12.6   | 10.6   |
| 85°   | 0.0    | 0.5    | 1.5    | 3.0    | 5.0    | 6.0    | 5.0    | 3.5    | 2.0    | 2.0    | 1.5    |
| 87.5° | 0.0    | 0.0    | 0.5    | 0.5    | 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)