

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: P941783

Luminaire Tested: **GALN-SB5C-727-U-T1**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P941783  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5C-727-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 34713 lumens  
Efficiency: N/A  
Efficacy: 139.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 249.5  
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

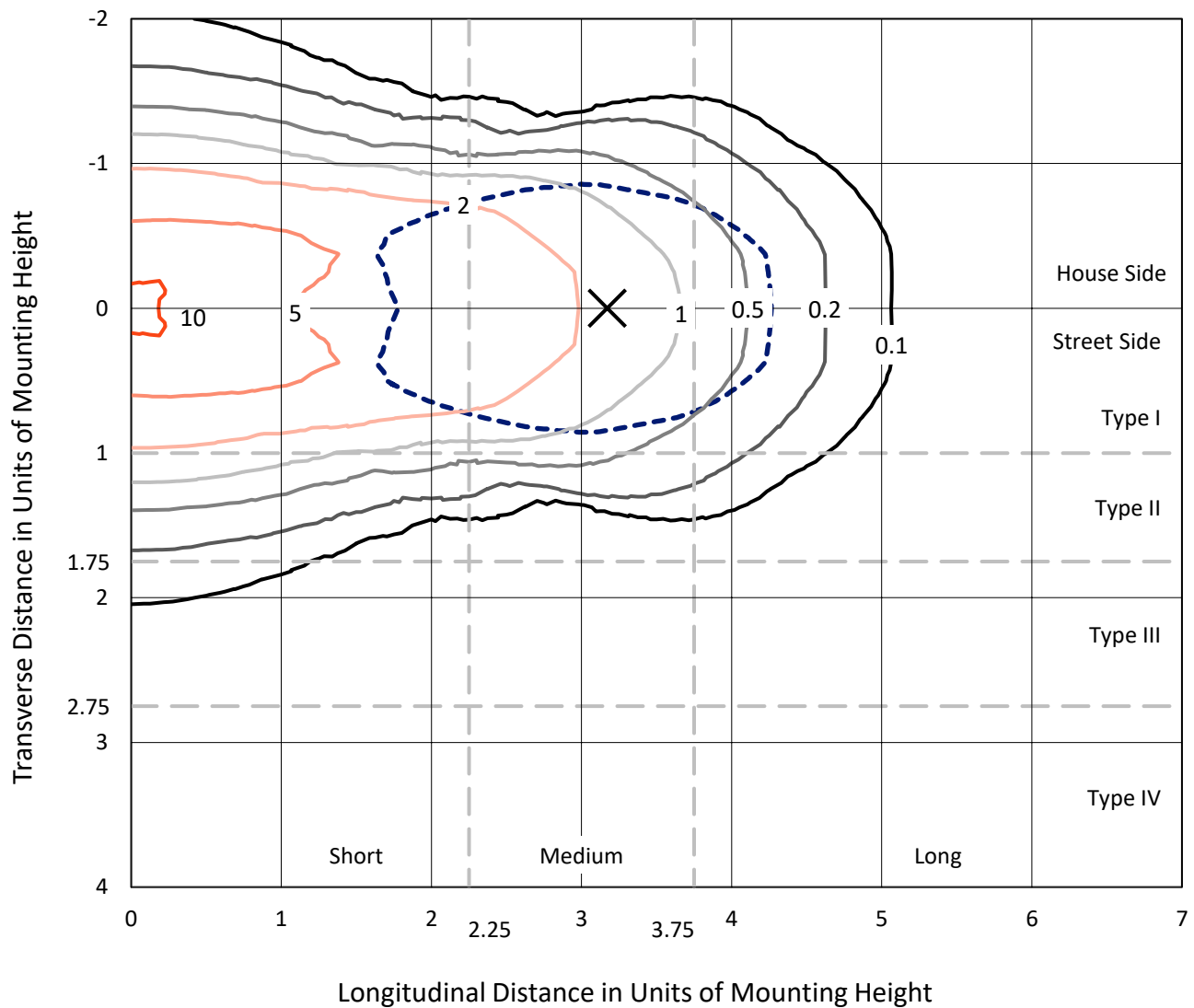


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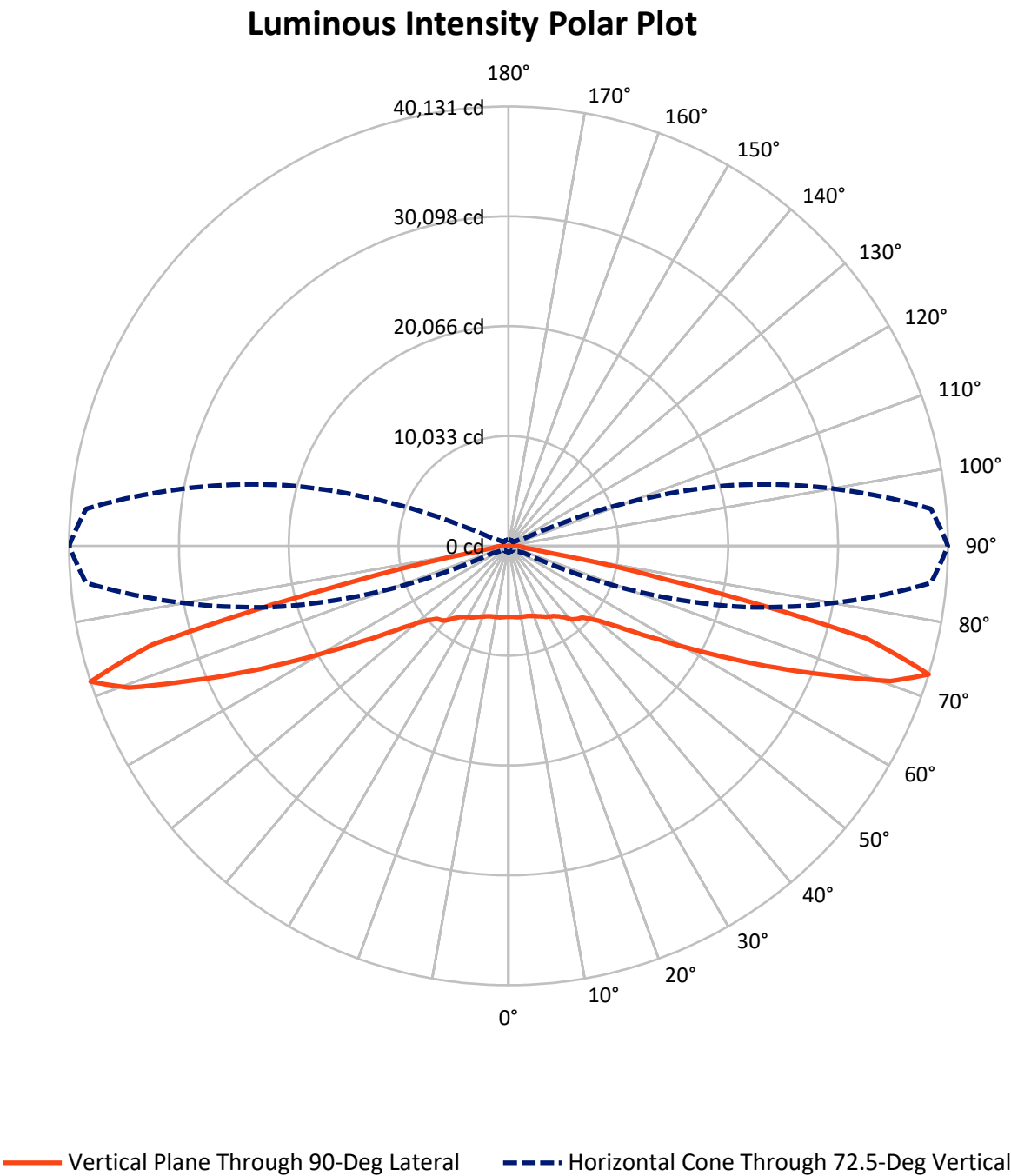
## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc  
Type I - Short - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 17356.5  | 0.0    | 17356.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 17356.5  | 0.0    | 17356.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 34713.0  | 0.0    | 34713.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 628.9   | 1.8       |
| 10°-20°   | 1923.1  | 5.5       |
| 20°-30°   | 3206.5  | 9.2       |
| 30°-40°   | 4410.0  | 12.7      |
| 40°-50°   | 5385.8  | 15.5      |
| 50°-60°   | 6229.2  | 17.9      |
| 60°-70°   | 7427.3  | 21.4      |
| 70°-80°   | 5183.8  | 14.9      |
| 80°-90°   | 318.4   | 0.9       |
| 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°    | 34713.0 | 100.0     |
| 0°-180°   | 34713.0 | 100.0     |

**Coefficient of Utilization**



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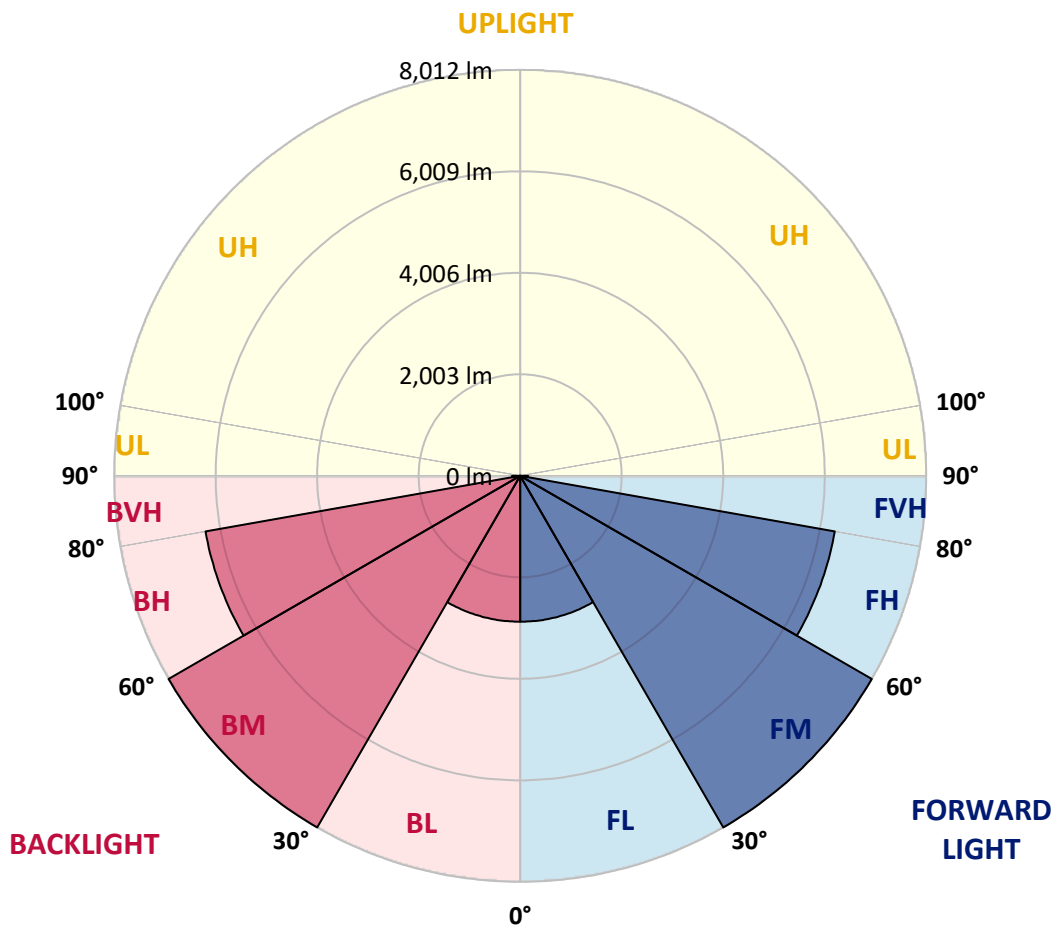
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2879.3 | 8.3       |                         |      |         |
| FM   | (30°-60°)   | 8012.5 | 23.1      |                         |      |         |
| FH   | (60°-80°)   | 6305.6 | 18.2      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 159.2  | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 2879.3 | 8.3       | B4/5000                 |      |         |
| BM   | (30°-60°)   | 8012.5 | 23.1      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 6305.6 | 18.2      | B5                      |      | G5      |
| BVH  | (80°-90°)   | 159.2  | 0.5       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G5**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 85°     | 90°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 6486.5 | 6486.5 | 6486.5 | 6486.5 | 6486.5 | 6486.5 | 6486.5 | 6486.5  | 6486.5  | 6486.5  | 6486.5  |
| 2.5°  | 6492.0 | 6499.4 | 6499.4 | 6493.9 | 6506.8 | 6495.7 | 6495.7 | 6490.2  | 6495.7  | 6490.2  | 6490.2  |
| 5°    | 6525.2 | 6534.5 | 6538.1 | 6536.3 | 6552.9 | 6543.7 | 6543.7 | 6536.3  | 6538.1  | 6532.6  | 6532.6  |
| 7.5°  | 6588.0 | 6600.9 | 6608.3 | 6617.5 | 6641.5 | 6630.4 | 6623.0 | 6600.9  | 6591.6  | 6576.9  | 6576.9  |
| 10°   | 6608.3 | 6623.0 | 6647.0 | 6695.0 | 6750.3 | 6752.1 | 6730.0 | 6674.7  | 6632.2  | 6599.0  | 6593.5  |
| 12.5° | 6545.5 | 6565.8 | 6615.6 | 6713.4 | 6837.0 | 6886.8 | 6851.8 | 6759.5  | 6676.5  | 6617.5  | 6608.3  |
| 15°   | 6466.2 | 6488.3 | 6564.0 | 6711.6 | 6894.2 | 7010.4 | 7006.7 | 6885.0  | 6752.1  | 6659.9  | 6645.1  |
| 17.5° | 6342.6 | 6364.7 | 6473.6 | 6680.2 | 6938.5 | 7130.3 | 7182.0 | 7056.5  | 6870.2  | 6746.6  | 6726.3  |
| 20°   | 6119.4 | 6139.7 | 6290.9 | 6580.6 | 6953.2 | 7257.6 | 7392.3 | 7281.6  | 7049.2  | 6881.3  | 6849.9  |
| 22.5° | 5829.7 | 5861.1 | 6038.2 | 6409.0 | 6918.2 | 7390.5 | 7632.1 | 7556.5  | 7257.6  | 7025.2  | 6982.8  |
| 25°   | 5519.8 | 5553.0 | 5759.6 | 6198.7 | 6827.8 | 7486.4 | 7916.2 | 7868.3  | 7493.8  | 7204.1  | 7145.1  |
| 27.5° | 5252.3 | 5287.3 | 5512.4 | 5990.2 | 6687.6 | 7523.3 | 8196.7 | 8220.6  | 7779.7  | 7401.5  | 7338.8  |
| 30°   | 5042.0 | 5075.2 | 5315.0 | 5822.3 | 6506.8 | 7486.4 | 8442.0 | 8608.1  | 8071.2  | 7573.1  | 7482.7  |
| 32.5° | 4811.4 | 4853.8 | 5106.5 | 5617.6 | 6292.8 | 7397.8 | 8656.0 | 9026.8  | 8408.8  | 7757.6  | 7643.2  |
| 35°   | 4519.9 | 4558.6 | 4824.3 | 5337.1 | 6012.4 | 7255.8 | 8835.0 | 9491.8  | 8892.2  | 8038.0  | 7910.7  |
| 37.5° | 4165.7 | 4202.6 | 4466.4 | 4986.6 | 5733.8 | 7056.5 | 8971.5 | 10015.7 | 9467.8  | 8442.0  | 8272.3  |
| 40°   | 3809.6 | 3844.7 | 4091.9 | 4595.5 | 5399.9 | 6802.0 | 9019.5 | 10528.6 | 10128.2 | 8997.3  | 8816.5  |
| 42.5° | 3483.1 | 3514.4 | 3741.4 | 4209.9 | 5025.4 | 6477.3 | 8956.7 | 10975.0 | 10720.4 | 9384.7  | 9152.3  |
| 45°   | 3182.4 | 3210.0 | 3411.1 | 3848.4 | 4636.1 | 6082.5 | 8768.6 | 11454.7 | 11425.2 | 9661.5  | 9347.9  |
| 47.5° | 2839.2 | 2866.9 | 3075.4 | 3497.8 | 4246.8 | 5619.4 | 8449.4 | 11927.0 | 12404.8 | 10288.7 | 9927.1  |
| 50°   | 2420.4 | 2444.4 | 2658.4 | 3093.8 | 3842.8 | 5126.8 | 8006.6 | 12297.8 | 13640.8 | 11238.8 | 10785.0 |
| 52.5° | 1924.2 | 1950.0 | 2158.5 | 2593.9 | 3363.2 | 4597.4 | 7423.7 | 12539.4 | 15068.7 | 12626.1 | 12067.2 |
| 55°   | 1431.6 | 1450.1 | 1630.8 | 2022.0 | 2769.1 | 3994.1 | 6693.1 | 12607.7 | 16688.5 | 14522.7 | 13823.5 |
| 57.5° | 1038.7 | 1049.7 | 1165.9 | 1457.4 | 2099.4 | 3239.6 | 5805.7 | 12430.6 | 18616.4 | 16954.2 | 16074.2 |
| 60°   | 841.3  | 844.9  | 880.0  | 1009.1 | 1459.3 | 2387.2 | 4733.9 | 11821.8 | 20708.4 | 20088.6 | 18979.8 |
| 62.5° | 763.8  | 763.8  | 773.0  | 808.0  | 987.0  | 1575.5 | 3437.0 | 10559.9 | 22951.8 | 24049.5 | 22564.4 |
| 65°   | 710.3  | 710.3  | 714.0  | 730.6  | 778.5  | 1003.6 | 2169.5 | 8504.8  | 24842.7 | 28689.3 | 26811.2 |
| 67.5° | 662.3  | 664.1  | 662.3  | 667.8  | 695.5  | 741.6  | 1258.2 | 5874.0  | 25861.1 | 33496.9 | 31469.4 |
| 70°   | 612.5  | 616.2  | 607.0  | 607.0  | 629.1  | 630.9  | 787.8  | 3221.1  | 25016.2 | 37526.1 | 36992.9 |
| 72.5° | 553.5  | 559.0  | 544.2  | 540.5  | 557.1  | 549.8  | 592.2  | 1546.0  | 21477.7 | 38728.9 | 40131.0 |
| 75°   | 501.8  | 509.2  | 476.0  | 466.7  | 466.7  | 461.2  | 481.5  | 793.3   | 13939.7 | 31593.0 | 33792.1 |
| 77.5° | 455.7  | 470.4  | 416.9  | 387.4  | 380.0  | 363.4  | 393.0  | 485.2   | 6097.2  | 14832.6 | 14524.5 |
| 80°   | 376.3  | 396.6  | 343.1  | 308.1  | 295.2  | 276.7  | 309.9  | 339.5   | 1813.5  | 3444.3  | 3298.6  |
| 82.5° | 280.4  | 289.6  | 243.5  | 219.5  | 208.5  | 195.6  | 232.5  | 236.1   | 590.4   | 1219.4  | 1378.1  |
| 85°   | 179.0  | 182.6  | 149.4  | 129.1  | 123.6  | 118.1  | 147.6  | 129.1   | 225.1   | 896.6   | 1302.5  |
| 87.5° | 62.7   | 71.9   | 57.2   | 51.7   | 55.3   | 46.1   | 68.3   | 38.7    | 62.7    | 632.8   | 784.1   |
| 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)