

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: P647536

Luminaire Tested: **GALN-SA7D-835-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-835-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44155.7 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

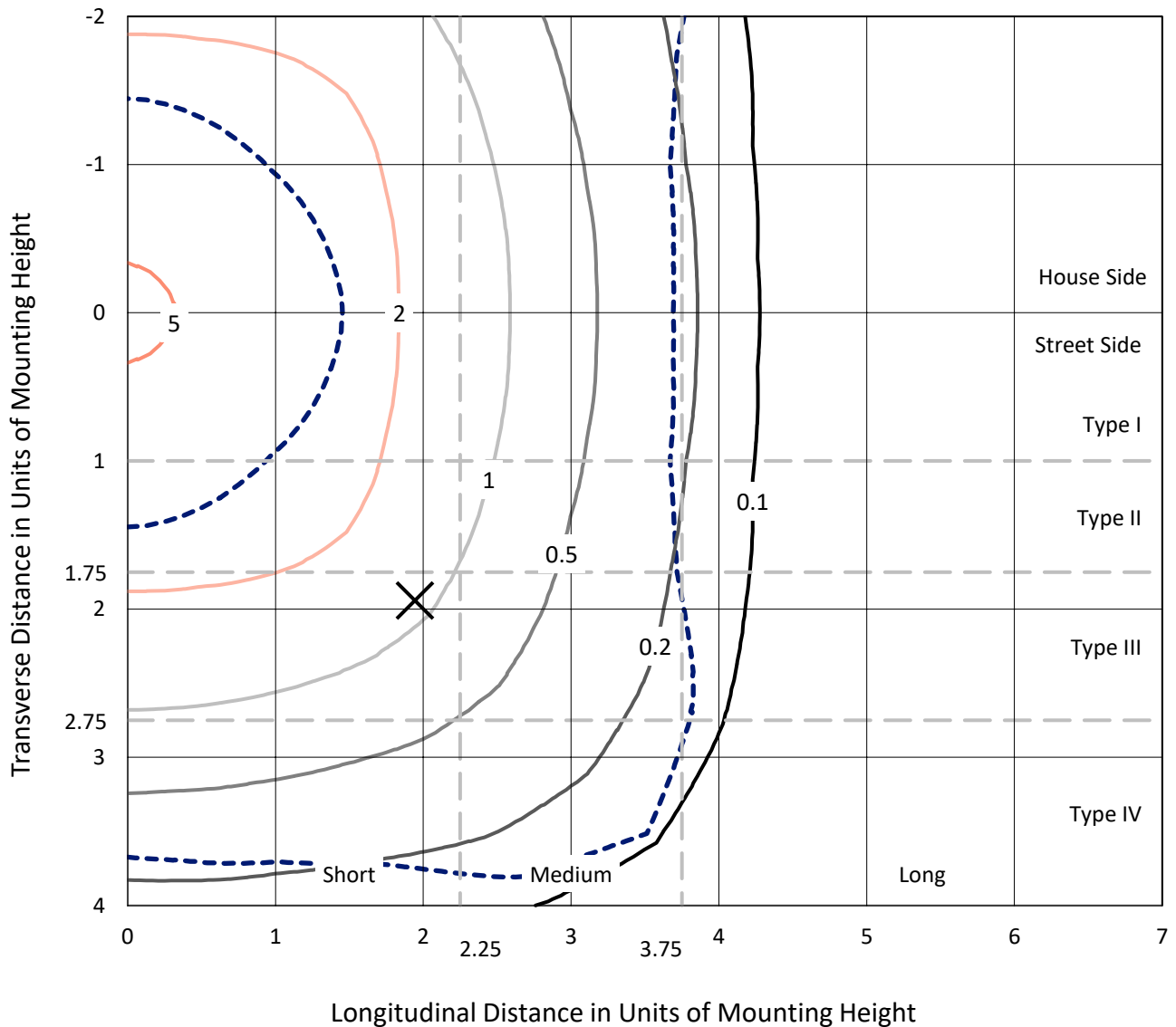
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

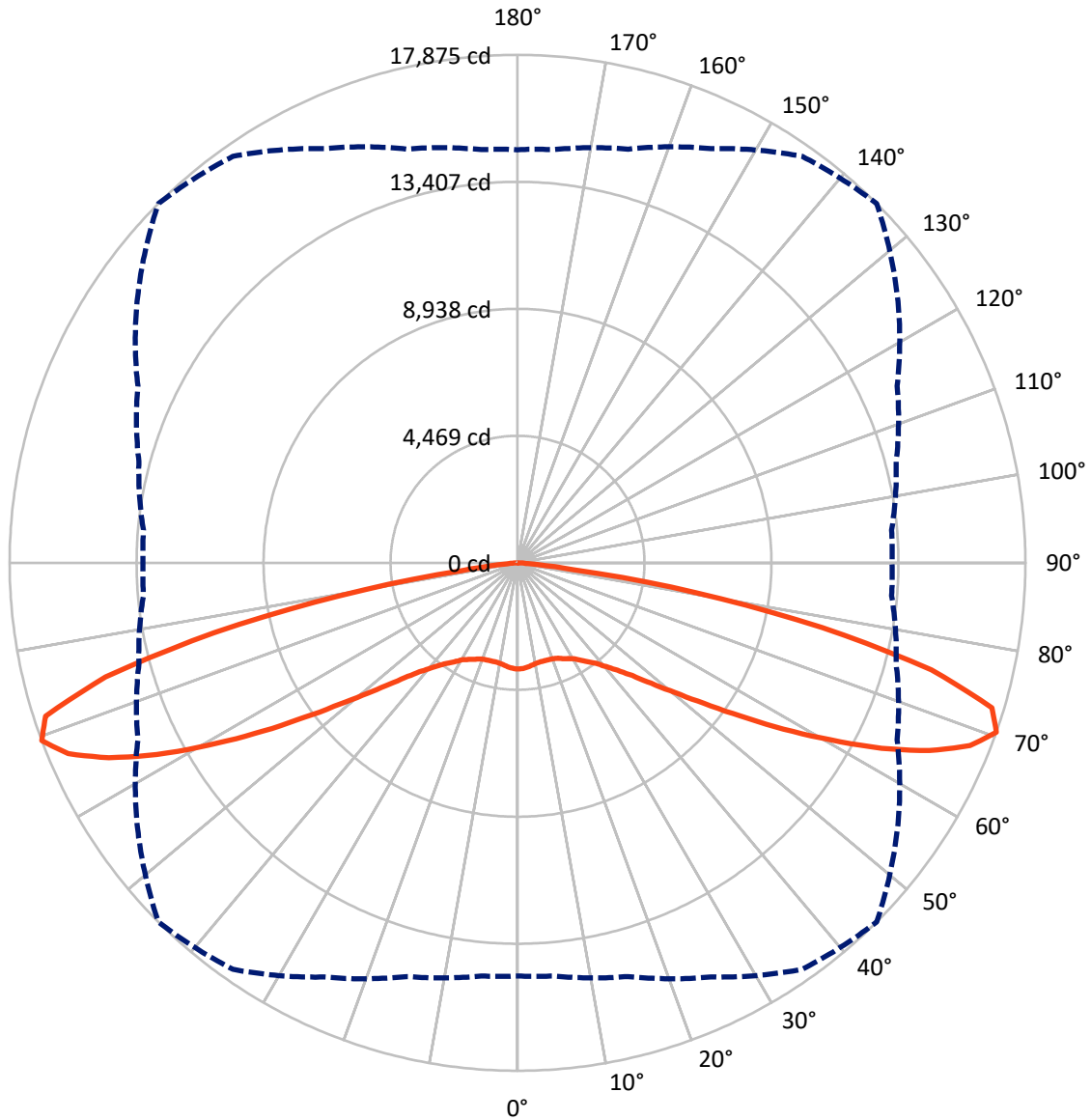
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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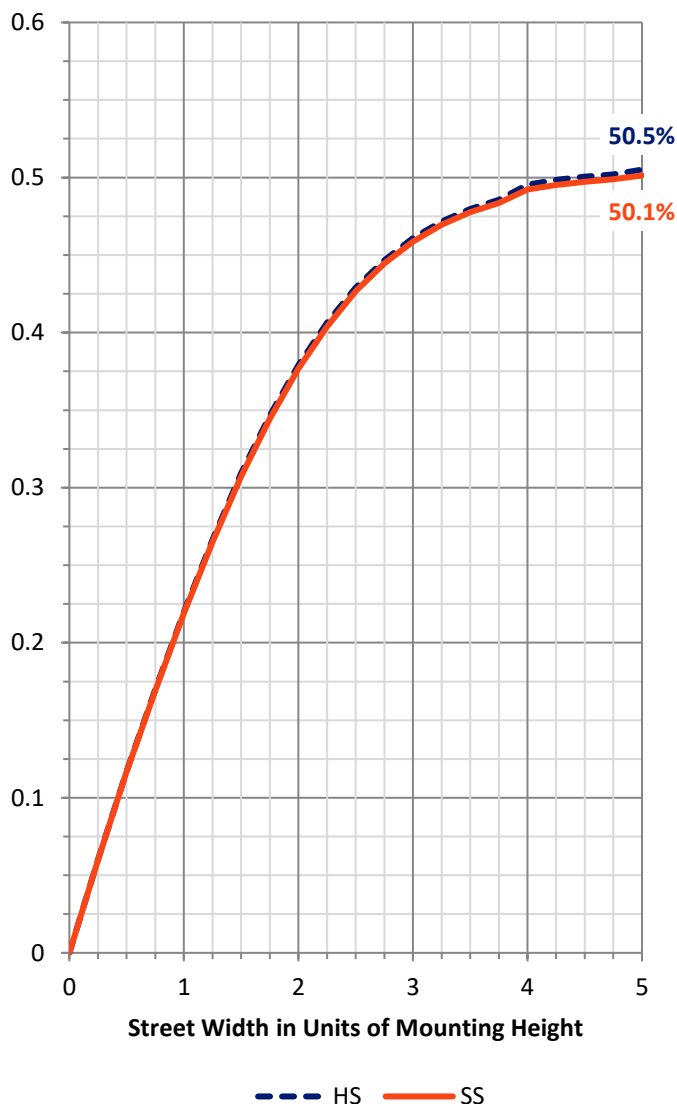
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 22077.9 | 0.0 | 22077.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 22077.9 | 0.0 | 22077.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 44155.7 | 0.0 | 44155.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 349.6 | 0.8 |
| 10°-20° | 1023.5 | 2.3 |
| 20°-30° | 1743.8 | 3.9 |
| 30°-40° | 2702.8 | 6.1 |
| 40°-50° | 4549.3 | 10.3 |
| 50°-60° | 8277.2 | 18.7 |
| 60°-70° | 14013.0 | 31.7 |
| 70°-80° | 10846.6 | 24.6 |
| 80°-90° | 649.9 | 1.5 |
| 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° | 44155.7 | 100.0 |
| 0°-180° | 44155.7 | 100.0 |

Coefficient of Utilization



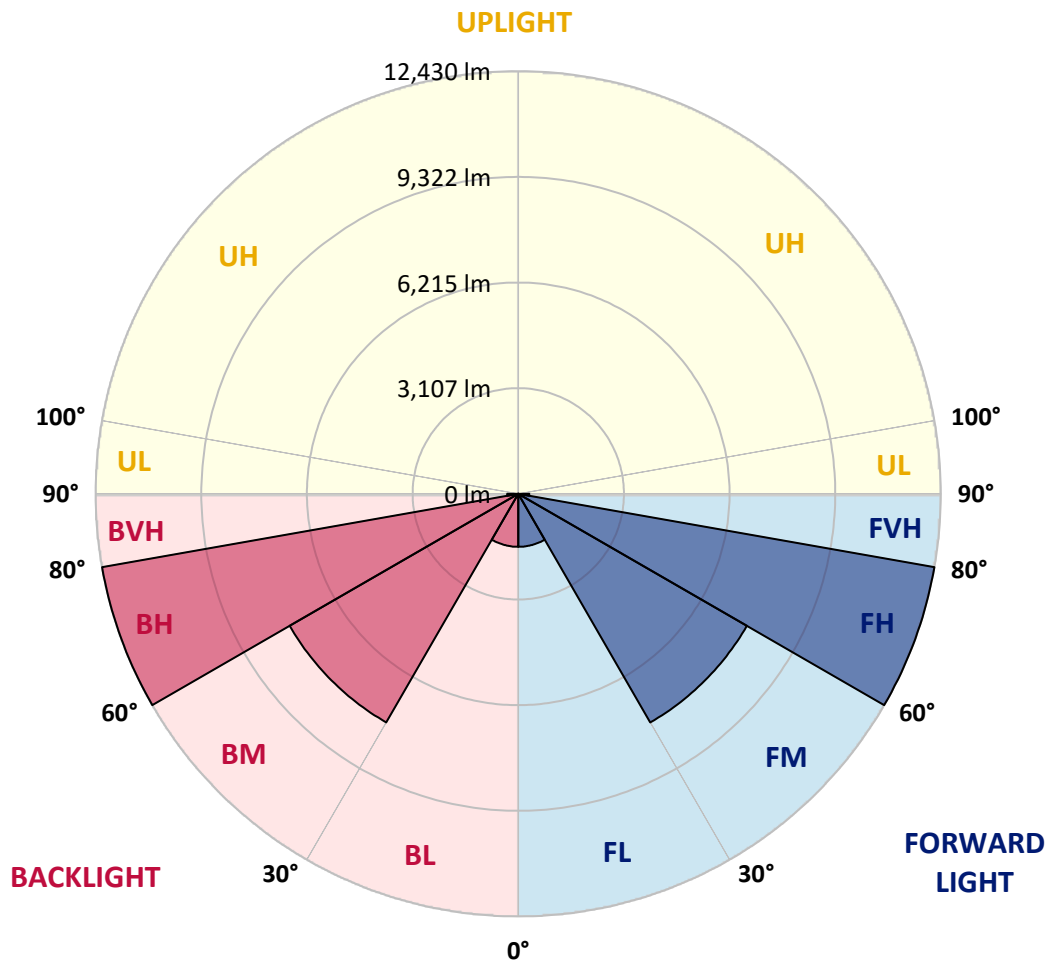
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1558.4 | 3.5 | | | |
| FM (30°-60°) | 7764.6 | 17.6 | | | |
| FH (60°-80°) | 12429.8 | 28.1 | | | G5 |
| FVH (80°-90°) | 325.0 | 0.7 | | | G3/500 |
| BL (0°-30°) | 1558.4 | 3.5 | B3/2500 | | |
| BM (30°-60°) | 7764.6 | 17.6 | B4/8500 | | |
| BH (60°-80°) | 12429.8 | 28.1 | B5 | | G5 |
| BVH (80°-90°) | 325.0 | 0.7 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3738.4 | 3738.4 | 3738.4 | 3738.4 | 3738.4 | 3738.4 | 3738.4 | 3738.4 | 3738.4 | 3738.4 | 3738.4 |
| 2.5° | 3729.0 | 3731.3 | 3731.3 | 3726.7 | 3724.3 | 3724.3 | 3722.0 | 3722.0 | 3729.0 | 3731.3 | 3733.7 |
| 5° | 3696.3 | 3696.3 | 3696.3 | 3694.0 | 3689.3 | 3689.3 | 3684.7 | 3684.7 | 3687.0 | 3694.0 | 3689.3 |
| 7.5° | 3652.1 | 3656.7 | 3656.7 | 3647.4 | 3640.4 | 3640.4 | 3638.1 | 3640.4 | 3642.7 | 3649.7 | 3647.4 |
| 10° | 3638.1 | 3640.4 | 3628.7 | 3612.4 | 3600.7 | 3593.7 | 3596.1 | 3600.7 | 3612.4 | 3617.1 | 3619.4 |
| 12.5° | 3647.4 | 3647.4 | 3626.4 | 3603.1 | 3582.1 | 3572.8 | 3570.4 | 3586.8 | 3607.8 | 3621.7 | 3626.4 |
| 15° | 3659.0 | 3654.3 | 3628.7 | 3598.4 | 3577.4 | 3575.1 | 3572.8 | 3584.4 | 3614.7 | 3642.7 | 3645.0 |
| 17.5° | 3666.0 | 3663.7 | 3631.1 | 3593.7 | 3582.1 | 3582.1 | 3579.7 | 3589.0 | 3621.7 | 3656.7 | 3659.0 |
| 20° | 3689.3 | 3682.4 | 3645.0 | 3605.4 | 3596.1 | 3600.7 | 3593.7 | 3605.4 | 3640.4 | 3682.4 | 3691.7 |
| 22.5° | 3736.0 | 3729.0 | 3691.7 | 3652.1 | 3647.4 | 3647.4 | 3645.0 | 3656.7 | 3694.0 | 3738.4 | 3745.3 |
| 25° | 3792.0 | 3784.9 | 3749.9 | 3722.0 | 3726.7 | 3736.0 | 3731.3 | 3733.7 | 3764.0 | 3801.3 | 3813.0 |
| 27.5° | 3866.6 | 3854.9 | 3824.6 | 3801.3 | 3815.2 | 3815.2 | 3815.2 | 3813.0 | 3831.6 | 3866.6 | 3878.3 |
| 30° | 3957.5 | 3952.9 | 3920.2 | 3917.9 | 3929.6 | 3917.9 | 3917.9 | 3920.2 | 3922.6 | 3955.2 | 3966.8 |
| 32.5° | 4076.5 | 4067.1 | 4050.9 | 4046.2 | 4078.8 | 4088.1 | 4055.5 | 4025.2 | 4041.5 | 4074.1 | 4081.2 |
| 35° | 4272.4 | 4258.3 | 4235.1 | 4209.4 | 4235.1 | 4279.3 | 4209.4 | 4186.1 | 4228.0 | 4272.4 | 4277.1 |
| 37.5° | 4538.2 | 4531.2 | 4494.0 | 4447.3 | 4444.9 | 4491.6 | 4419.3 | 4417.0 | 4496.2 | 4549.9 | 4556.9 |
| 40° | 4871.7 | 4878.7 | 4832.0 | 4787.7 | 4764.4 | 4801.7 | 4745.8 | 4766.7 | 4843.7 | 4904.4 | 4899.7 |
| 42.5° | 5340.5 | 5314.8 | 5242.5 | 5200.5 | 5174.8 | 5160.9 | 5146.9 | 5179.5 | 5265.8 | 5331.1 | 5382.4 |
| 45° | 5888.5 | 5879.2 | 5788.2 | 5736.9 | 5681.0 | 5660.0 | 5655.3 | 5713.6 | 5818.6 | 5897.8 | 5904.8 |
| 47.5° | 6508.8 | 6487.9 | 6429.5 | 6375.9 | 6354.9 | 6329.2 | 6306.0 | 6350.3 | 6455.2 | 6511.2 | 6527.5 |
| 50° | 7147.9 | 7152.5 | 7152.5 | 7143.2 | 7164.1 | 7168.8 | 7105.9 | 7122.2 | 7180.5 | 7175.8 | 7171.1 |
| 52.5° | 7877.8 | 7903.4 | 8024.7 | 8036.3 | 8136.6 | 8204.3 | 8090.0 | 8022.4 | 8001.4 | 7875.4 | 7884.7 |
| 55° | 8735.9 | 8759.3 | 8941.2 | 9123.1 | 9393.7 | 9507.9 | 9267.7 | 9057.8 | 8908.5 | 8717.3 | 8726.6 |
| 57.5° | 9806.4 | 9818.0 | 9990.6 | 10340.5 | 10769.5 | 11037.7 | 10615.6 | 10200.5 | 9897.4 | 9715.5 | 9643.1 |
| 60° | 10958.5 | 10970.1 | 11222.0 | 11648.8 | 12315.7 | 12642.2 | 12119.8 | 11441.2 | 11058.7 | 10781.2 | 10799.8 |
| 62.5° | 12341.3 | 12388.0 | 12614.2 | 13201.9 | 14011.2 | 14377.3 | 13684.6 | 12777.5 | 12259.7 | 11914.6 | 11928.6 |
| 65° | 13822.2 | 13901.5 | 14148.7 | 14794.7 | 15541.0 | 15935.1 | 15086.2 | 14039.1 | 13395.5 | 12973.4 | 13017.7 |
| 67.5° | 14783.0 | 14853.0 | 15209.9 | 15923.4 | 16853.9 | 17180.4 | 16084.4 | 14864.7 | 14060.1 | 13556.4 | 13463.1 |
| 70° | 14538.2 | 14596.5 | 15072.2 | 16084.4 | 17462.6 | 17875.4 | 16322.2 | 14743.4 | 13796.6 | 13215.9 | 13178.6 |
| 72.5° | 12833.4 | 12712.2 | 13407.2 | 14860.0 | 16767.6 | 17460.3 | 15573.6 | 13465.4 | 12273.8 | 11676.7 | 11606.7 |
| 75° | 8505.1 | 8768.6 | 9794.7 | 11506.5 | 14186.0 | 15044.2 | 13292.8 | 10811.5 | 9312.0 | 8815.2 | 8738.3 |
| 77.5° | 2842.8 | 3045.7 | 3957.5 | 6522.9 | 9671.1 | 10960.7 | 9685.2 | 7070.9 | 5002.3 | 4029.9 | 4048.5 |
| 80° | 753.2 | 743.9 | 963.2 | 1793.4 | 4179.1 | 6347.9 | 4864.7 | 2395.0 | 1310.7 | 949.2 | 900.2 |
| 82.5° | 270.5 | 303.2 | 389.5 | 496.7 | 1107.7 | 1972.9 | 1392.3 | 671.7 | 492.0 | 363.8 | 352.1 |
| 85° | 118.9 | 116.6 | 167.9 | 198.3 | 277.5 | 368.5 | 326.5 | 284.5 | 249.5 | 165.6 | 153.9 |
| 87.5° | 25.7 | 25.7 | 39.6 | 30.3 | 48.9 | 48.9 | 60.6 | 72.3 | 74.6 | 48.9 | 39.6 |
| 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)