

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: P456894

Luminaire Tested: **GALN-SA8B-722-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456894
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-722-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2200K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34849 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

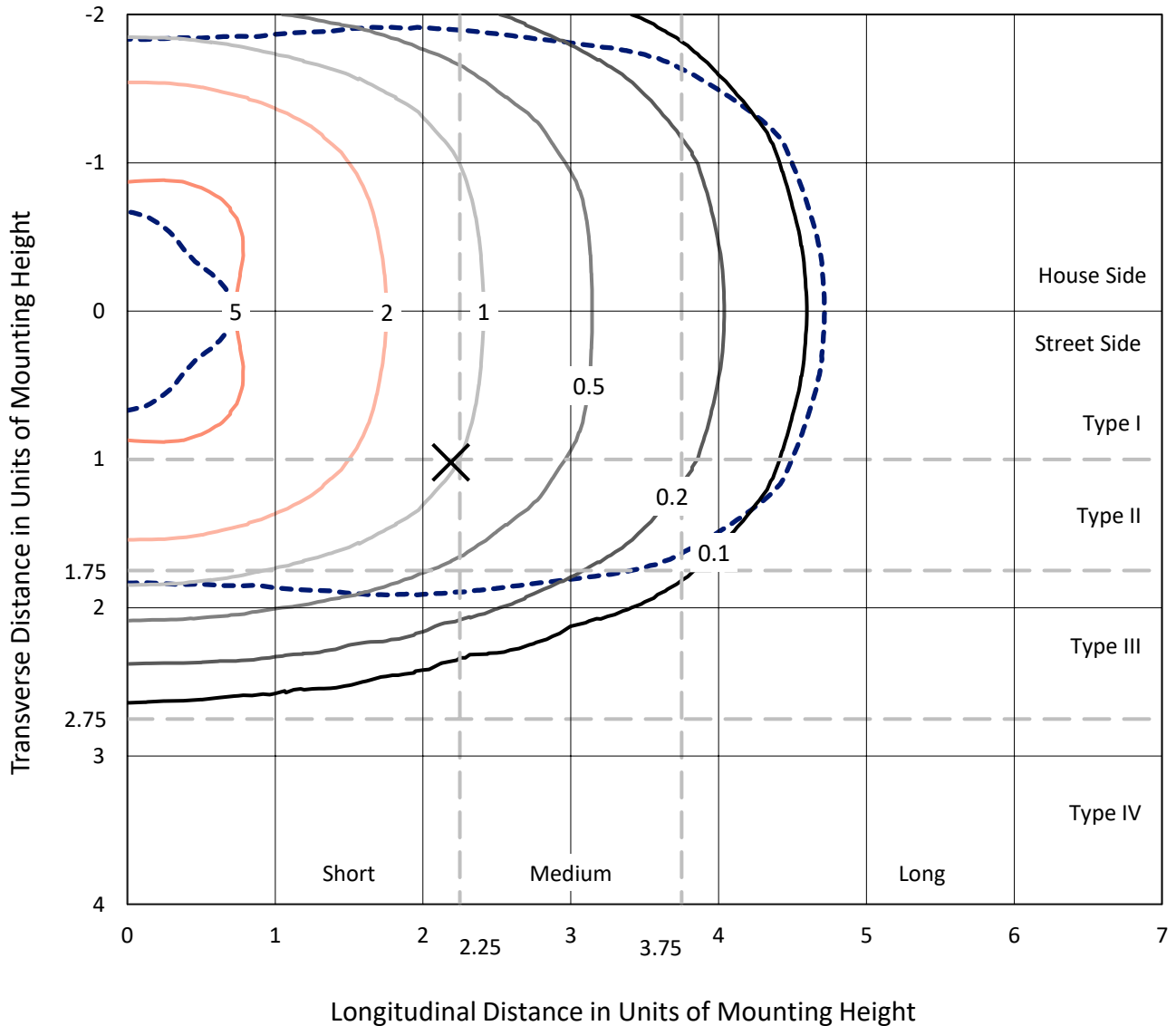
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

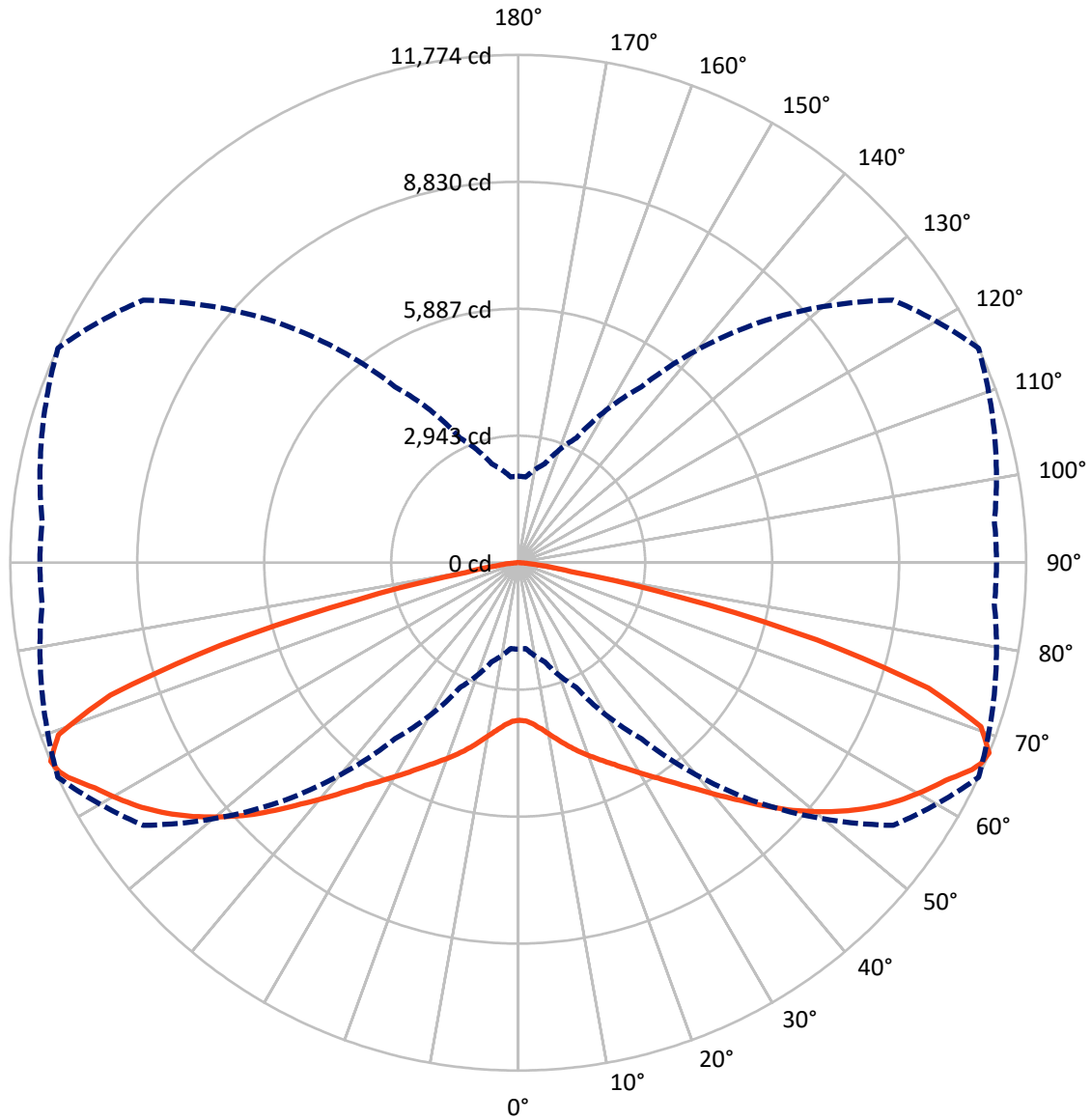
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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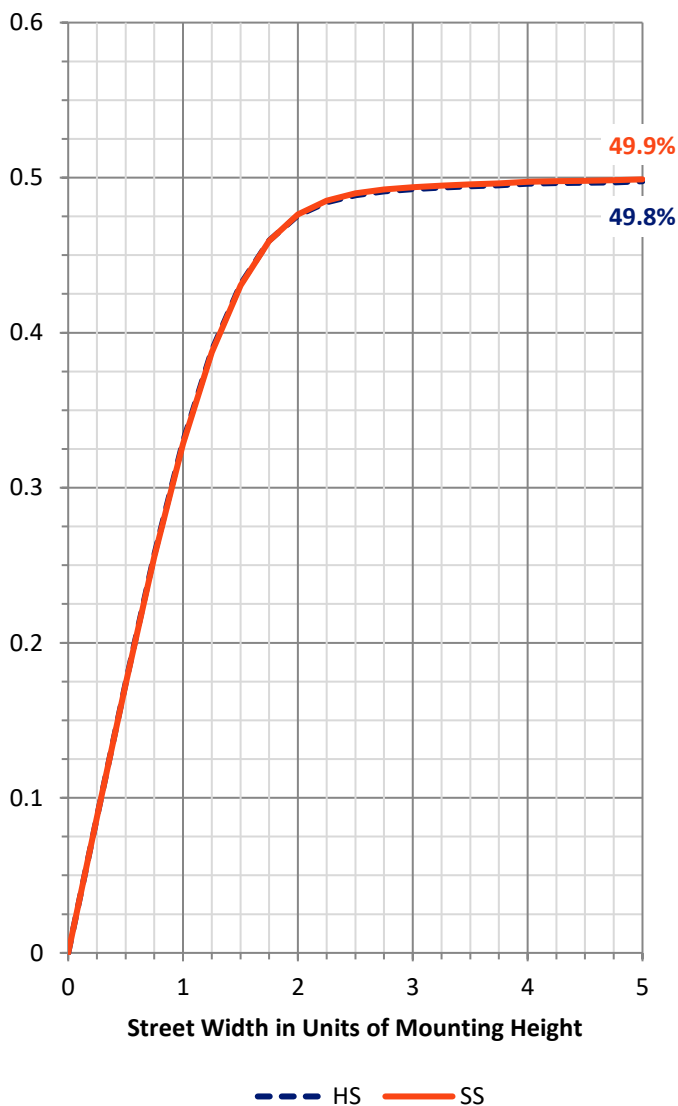
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 17424.5 | 0.0 | 17424.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 17424.5 | 0.0 | 17424.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 34849.0 | 0.0 | 34849.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 360.0 | 1.0 |
| 10°-20° | 1204.9 | 3.5 |
| 20°-30° | 2356.9 | 6.8 |
| 30°-40° | 4008.7 | 11.5 |
| 40°-50° | 6344.6 | 18.2 |
| 50°-60° | 8412.8 | 24.1 |
| 60°-70° | 7935.8 | 22.8 |
| 70°-80° | 3923.1 | 11.3 |
| 80°-90° | 302.3 | 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° | 34849.0 | 100.0 |
| 0°-180° | 34849.0 | 100.0 |

Coefficient of Utilization



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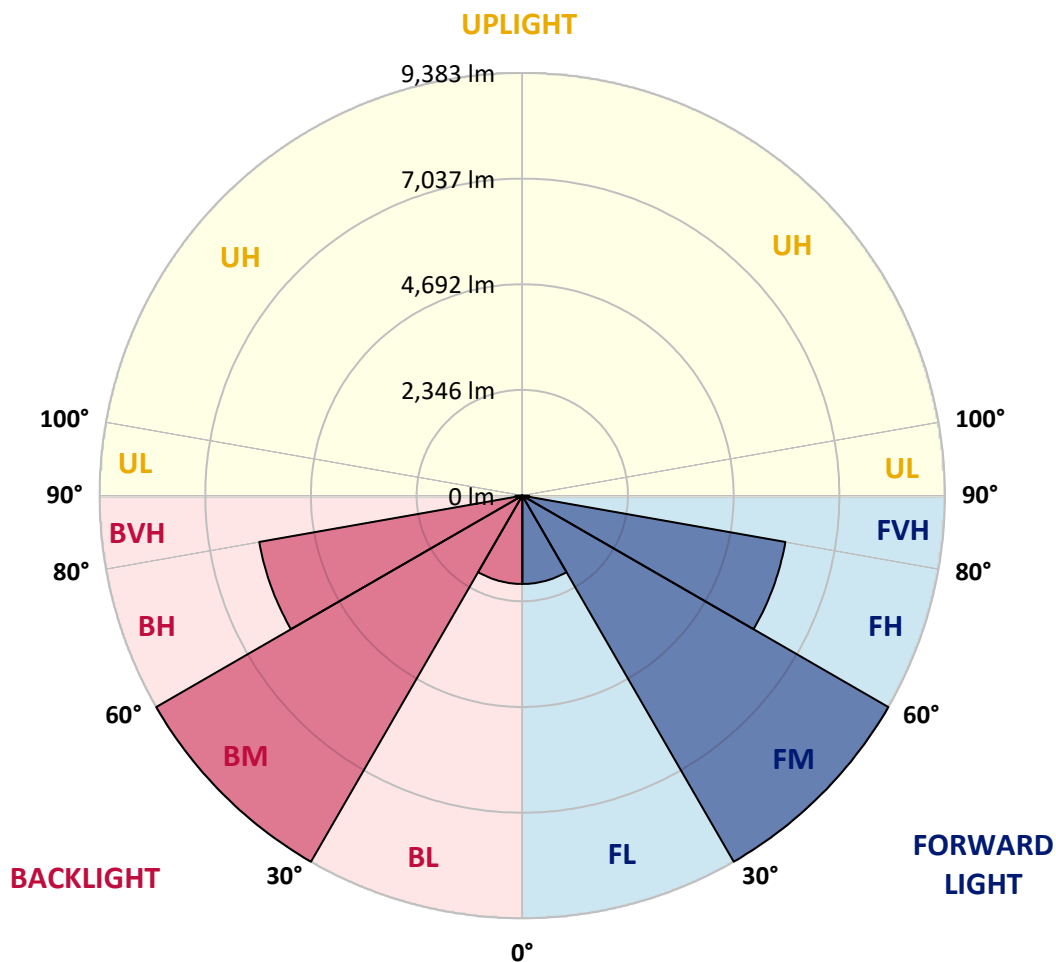
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1960.9 | 5.6 | | | |
| FM | (30°-60°) | 9383.0 | 26.9 | | | |
| FH | (60°-80°) | 5929.5 | 17.0 | | | G3/7500 |
| FVH | (80°-90°) | 151.2 | 0.4 | | | G2/225 |
| BL | (0°-30°) | 1960.9 | 5.6 | B3/2500 | | |
| BM | (30°-60°) | 9383.0 | 26.9 | B5 | | |
| BH | (60°-80°) | 5929.5 | 17.0 | B5 | | G5 |
| BVH | (80°-90°) | 151.2 | 0.4 | | | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| 0° | 3650.1 | 3650.1 | 3650.1 | 3650.1 | 3650.1 | 3650.1 | 3650.1 | 3650.1 | 3650.1 | 3650.1 | 3650.1 |
| 2.5° | 3631.5 | 3635.2 | 3638.9 | 3644.5 | 3652.0 | 3663.2 | 3670.7 | 3676.3 | 3691.2 | 3693.1 | 3691.2 |
| 5° | 3618.4 | 3622.1 | 3631.5 | 3648.3 | 3672.5 | 3706.1 | 3732.3 | 3764.0 | 3788.3 | 3805.1 | 3801.4 |
| 7.5° | 3616.5 | 3624.0 | 3638.9 | 3674.4 | 3721.1 | 3779.0 | 3838.7 | 3892.8 | 3939.5 | 3976.9 | 3971.3 |
| 10° | 3646.4 | 3655.7 | 3680.0 | 3732.3 | 3805.1 | 3889.1 | 3973.1 | 4053.4 | 4120.6 | 4169.2 | 4186.0 |
| 12.5° | 3696.8 | 3704.3 | 3749.1 | 3827.5 | 3932.1 | 4036.6 | 4131.8 | 4230.8 | 4324.1 | 4406.3 | 4406.3 |
| 15° | 3784.6 | 3797.6 | 3853.6 | 3967.5 | 4096.4 | 4217.7 | 4314.8 | 4419.4 | 4520.2 | 4613.5 | 4641.5 |
| 17.5° | 3905.9 | 3924.6 | 4008.6 | 4154.2 | 4318.5 | 4430.6 | 4522.0 | 4607.9 | 4695.7 | 4785.3 | 4798.4 |
| 20° | 4072.1 | 4090.8 | 4202.8 | 4378.3 | 4572.5 | 4706.9 | 4768.5 | 4789.0 | 4832.0 | 4917.9 | 4929.1 |
| 22.5° | 4298.0 | 4316.7 | 4441.8 | 4639.7 | 4856.3 | 5001.9 | 5028.0 | 4979.5 | 4968.3 | 5035.5 | 5043.0 |
| 25° | 4553.8 | 4570.6 | 4714.4 | 4927.2 | 5151.3 | 5310.0 | 5302.5 | 5183.0 | 5115.8 | 5156.9 | 5168.1 |
| 27.5° | 4841.3 | 4865.6 | 5011.2 | 5231.5 | 5474.3 | 5614.3 | 5591.9 | 5418.2 | 5274.5 | 5267.0 | 5270.7 |
| 30° | 5209.1 | 5235.3 | 5373.4 | 5584.4 | 5823.4 | 5952.2 | 5905.5 | 5672.2 | 5450.0 | 5375.3 | 5375.3 |
| 32.5° | 5597.5 | 5662.8 | 5802.9 | 6023.2 | 6209.9 | 6303.2 | 6232.3 | 5952.2 | 5657.2 | 5552.7 | 5547.1 |
| 35° | 6103.5 | 6138.9 | 6277.1 | 6491.8 | 6631.8 | 6704.7 | 6568.4 | 6267.8 | 5928.0 | 5804.7 | 5787.9 |
| 37.5° | 6598.2 | 6628.1 | 6788.7 | 6994.1 | 7164.0 | 7160.2 | 6975.4 | 6643.0 | 6264.0 | 6125.9 | 6114.7 |
| 40° | 7104.2 | 7135.9 | 7318.9 | 7507.5 | 7677.4 | 7662.5 | 7438.4 | 7066.9 | 6663.6 | 6508.6 | 6538.5 |
| 42.5° | 7543.0 | 7578.4 | 7785.7 | 8054.5 | 8207.6 | 8203.9 | 7944.4 | 7526.2 | 7106.1 | 6967.9 | 6994.1 |
| 45° | 7942.5 | 7974.3 | 8215.1 | 8523.2 | 8747.2 | 8775.2 | 8491.4 | 8048.9 | 7617.7 | 7440.3 | 7447.7 |
| 47.5° | 8224.5 | 8284.2 | 8536.3 | 8889.1 | 9193.5 | 9292.4 | 9014.2 | 8581.1 | 8084.4 | 7899.6 | 7910.8 |
| 50° | 8439.2 | 8476.5 | 8751.0 | 9152.4 | 9537.0 | 9742.4 | 9518.3 | 9074.0 | 8551.2 | 8355.1 | 8381.3 |
| 52.5° | 8465.3 | 8510.1 | 8808.8 | 9271.9 | 9764.8 | 10076.6 | 9966.4 | 9555.7 | 9027.3 | 8825.6 | 8881.7 |
| 55° | 8252.5 | 8278.6 | 8635.2 | 9197.2 | 9854.4 | 10324.9 | 10352.9 | 10003.8 | 9481.0 | 9327.9 | 9365.2 |
| 57.5° | 7645.7 | 7712.9 | 8164.7 | 8848.1 | 9731.2 | 10457.5 | 10642.3 | 10410.8 | 9940.3 | 9789.1 | 9848.8 |
| 60° | 6650.5 | 6717.7 | 7171.4 | 8037.7 | 9266.3 | 10395.9 | 10881.3 | 10771.1 | 10356.6 | 10235.3 | 10267.0 |
| 62.5° | 5211.0 | 5205.4 | 5767.4 | 6829.7 | 8342.1 | 10093.4 | 11058.7 | 11118.4 | 10767.4 | 10614.3 | 10662.8 |
| 65° | 3377.5 | 3394.3 | 3937.7 | 5082.2 | 6947.4 | 9324.2 | 11097.9 | 11560.9 | 11170.7 | 10939.2 | 10974.6 |
| 66° | 2716.6 | 2767.0 | 3228.2 | 4283.1 | 6236.0 | 8820.0 | 10980.2 | 11691.6 | 11293.9 | 11013.9 | 11030.7 |
| 67.5° | 2005.2 | 1995.9 | 2374.9 | 3189.0 | 4979.5 | 7862.2 | 10612.4 | 11773.8 | 11433.9 | 11081.1 | 11088.5 |
| 70° | 1144.5 | 1142.6 | 1277.1 | 1751.3 | 2927.6 | 5535.9 | 8945.1 | 11379.8 | 11717.7 | 11323.8 | 11303.3 |
| 72.5° | 836.4 | 830.8 | 849.5 | 967.1 | 1428.3 | 2795.0 | 6170.7 | 9945.9 | 11572.1 | 11284.6 | 11226.7 |
| 75° | 702.0 | 698.3 | 694.6 | 709.5 | 801.0 | 1265.9 | 3274.8 | 7154.6 | 10041.1 | 10591.9 | 10532.2 |
| 77.5° | 573.2 | 573.2 | 575.1 | 571.3 | 575.1 | 666.5 | 1357.4 | 3835.0 | 6114.7 | 6826.0 | 6992.2 |
| 80° | 448.1 | 446.2 | 478.0 | 464.9 | 435.0 | 427.6 | 601.2 | 1234.1 | 2029.5 | 2018.3 | 1665.4 |
| 82.5° | 330.5 | 308.1 | 364.1 | 354.7 | 321.1 | 272.6 | 351.0 | 526.5 | 677.7 | 440.6 | 326.7 |
| 85° | 209.1 | 207.2 | 257.7 | 235.3 | 196.0 | 128.8 | 168.0 | 225.9 | 280.1 | 169.9 | 138.2 |
| 87.5° | 37.3 | 35.5 | 82.2 | 59.7 | 59.7 | 37.3 | 46.7 | 61.6 | 91.5 | 63.5 | 46.7 |
| 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)