

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: P651990

Luminaire Tested: **GALN-SA7A-840-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651990
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-840-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22726.3 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 215
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

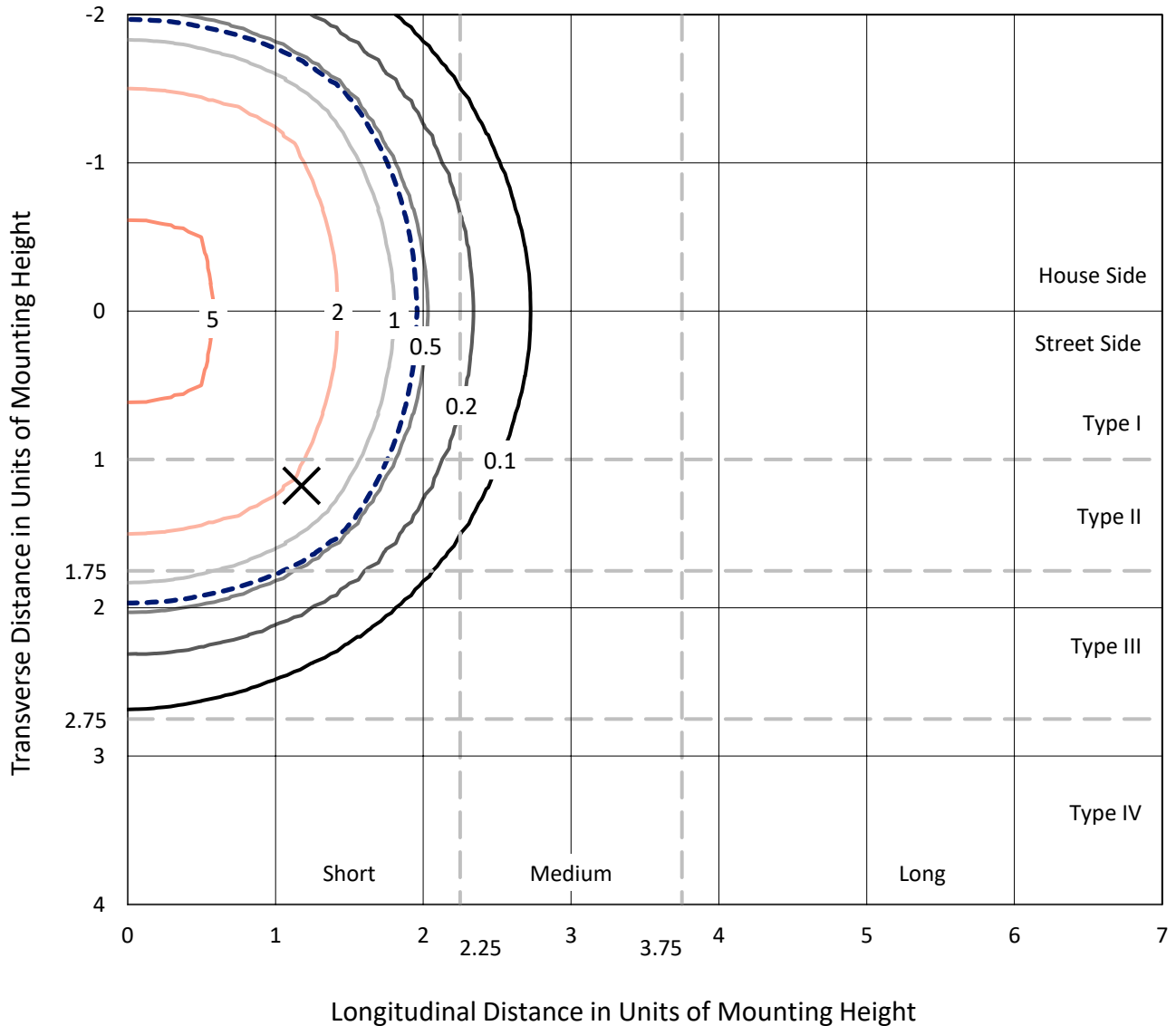




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Iso-Footcandle Lines of Horizontal Illumination

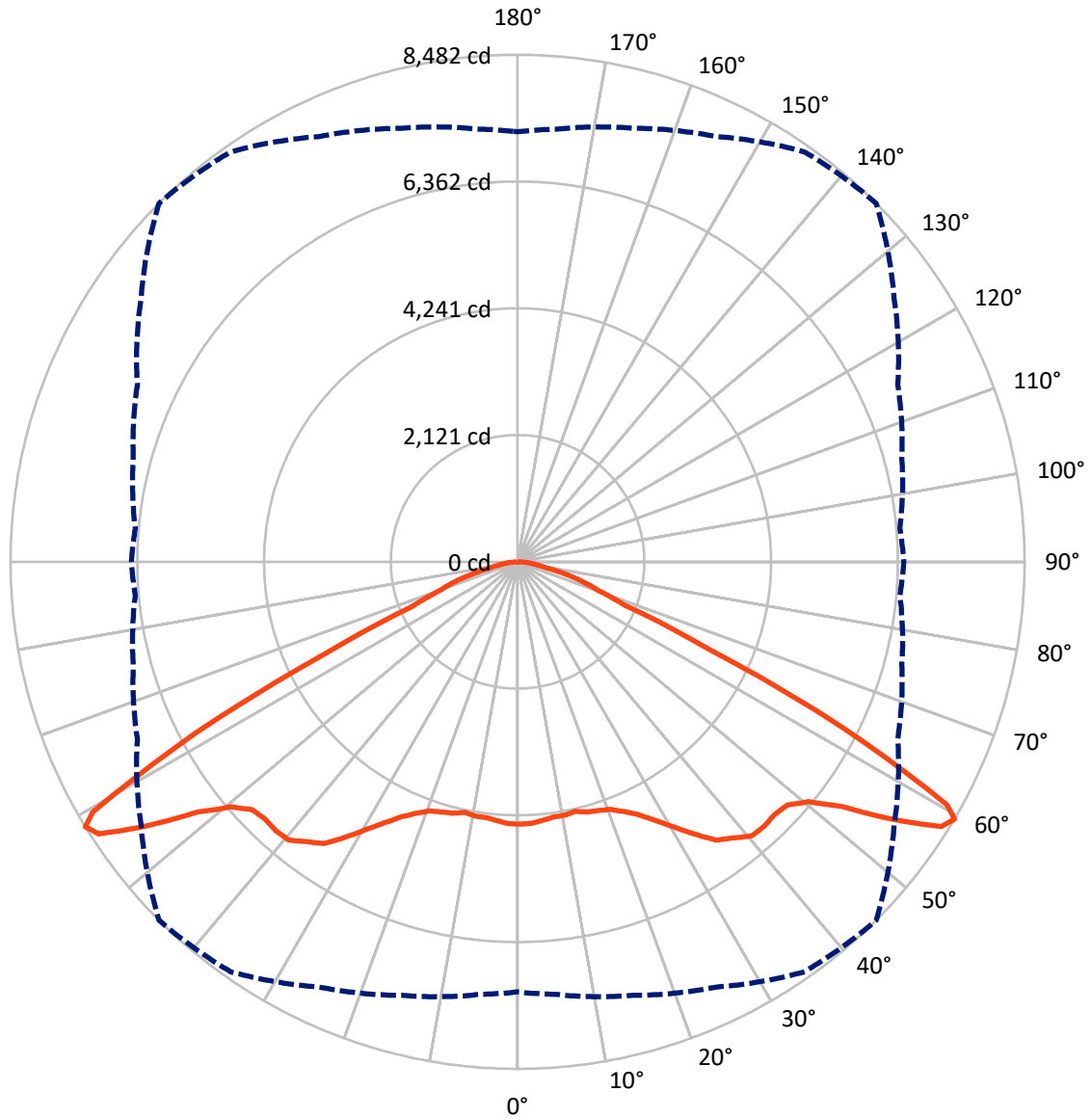
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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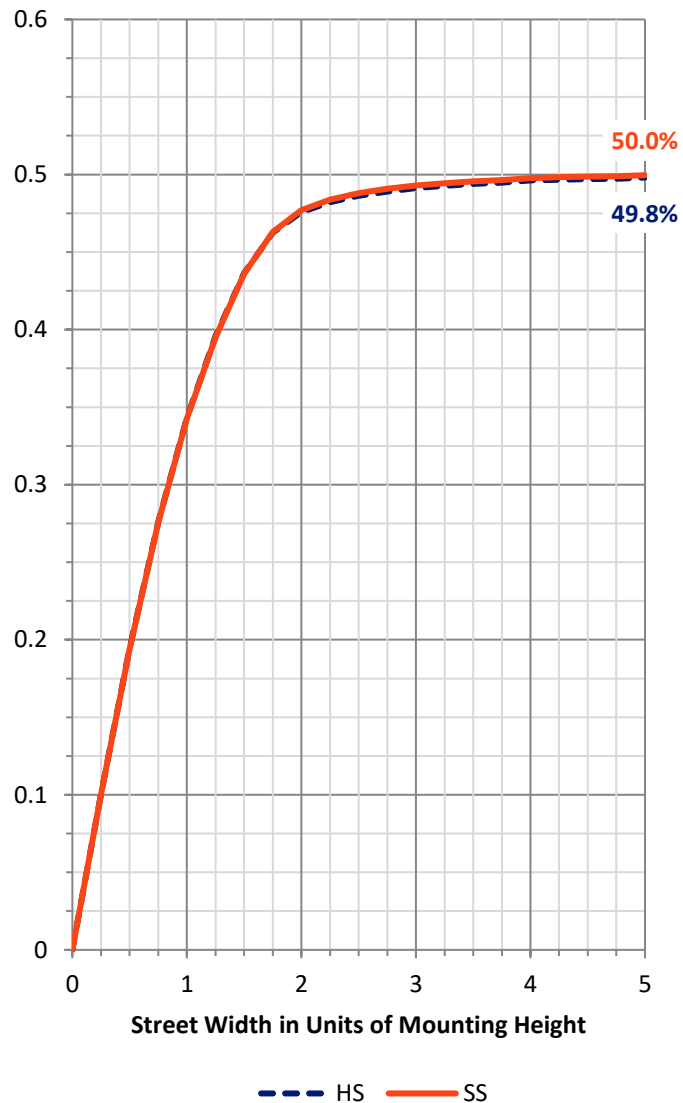
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11363.2 | 0.0 | 11363.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 11363.2 | 0.0 | 11363.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 22726.3 | 0.0 | 22726.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 413.8 | 1.8 |
| 10°-20° | 1230.6 | 5.4 |
| 20°-30° | 2148.7 | 9.5 |
| 30°-40° | 3431.8 | 15.1 |
| 40°-50° | 4674.8 | 20.6 |
| 50°-60° | 6321.6 | 27.8 |
| 60°-70° | 3466.8 | 15.3 |
| 70°-80° | 886.9 | 3.9 |
| 80°-90° | 151.3 | 0.7 |
| 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° | 22726.3 | 100.0 |
| 0°-180° | 22726.3 | 100.0 |

Coefficient of Utilization

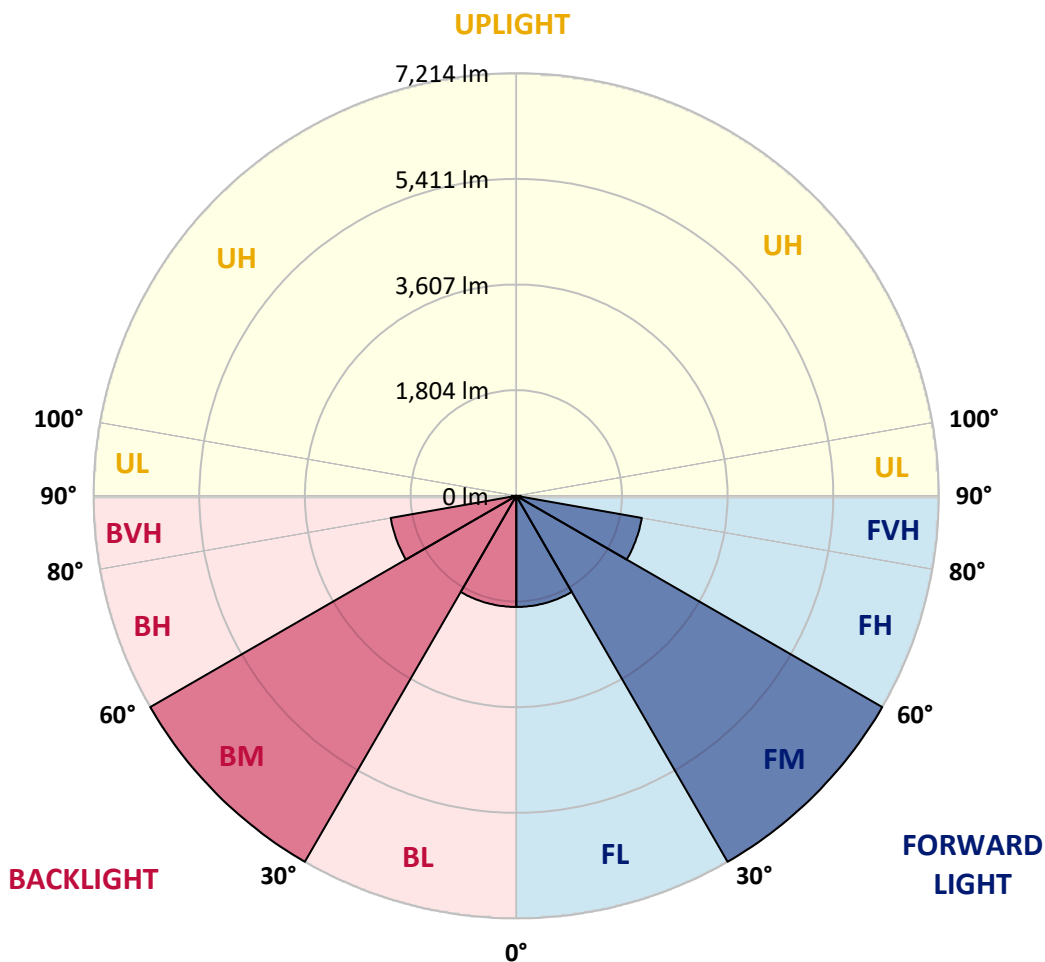


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1896.6 | 8.3 | | | |
| FM (30°-60°) | 7214.1 | 31.7 | | | |
| FH (60°-80°) | 2176.9 | 9.6 | | | G2/5000 |
| FVH (80°-90°) | 75.6 | 0.3 | | | G1/100 |
| BL (0°-30°) | 1896.6 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 7214.1 | 31.7 | B4/8500 | | |
| BH (60°-80°) | 2176.9 | 9.6 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 75.6 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 4389.7 | 4389.7 | 4389.7 | 4389.7 | 4389.7 | 4389.7 | 4389.7 | 4389.7 | 4389.7 | 4389.7 | 4389.7 |
| 2.5° | 4363.4 | 4395.5 | 4372.2 | 4392.5 | 4389.7 | 4380.9 | 4366.3 | 4357.6 | 4346.0 | 4363.4 | 4334.3 |
| 5° | 4346.0 | 4372.2 | 4398.3 | 4363.4 | 4363.4 | 4346.0 | 4337.2 | 4319.7 | 4319.7 | 4316.9 | 4313.9 |
| 7.5° | 4375.1 | 4348.9 | 4337.2 | 4343.0 | 4348.9 | 4311.0 | 4337.2 | 4302.2 | 4273.1 | 4293.6 | 4316.9 |
| 10° | 4348.9 | 4360.5 | 4316.9 | 4337.2 | 4305.2 | 4311.0 | 4293.6 | 4316.9 | 4284.8 | 4284.8 | 4284.8 |
| 12.5° | 4375.1 | 4343.0 | 4357.6 | 4343.0 | 4334.3 | 4284.8 | 4308.1 | 4281.9 | 4278.9 | 4308.1 | 4281.9 |
| 15° | 4427.5 | 4375.1 | 4363.4 | 4334.3 | 4343.0 | 4343.0 | 4319.7 | 4322.7 | 4290.6 | 4308.1 | 4313.9 |
| 17.5° | 4410.0 | 4380.9 | 4372.2 | 4337.2 | 4366.3 | 4375.1 | 4331.4 | 4302.2 | 4322.7 | 4319.7 | 4316.9 |
| 20° | 4424.6 | 4436.3 | 4427.5 | 4433.3 | 4445.0 | 4421.7 | 4380.9 | 4340.1 | 4313.9 | 4351.8 | 4348.9 |
| 22.5° | 4517.8 | 4506.2 | 4500.4 | 4494.5 | 4514.9 | 4538.2 | 4482.9 | 4418.8 | 4418.8 | 4445.0 | 4456.6 |
| 25° | 4593.5 | 4590.6 | 4587.7 | 4613.9 | 4683.9 | 4683.9 | 4613.9 | 4532.4 | 4512.0 | 4529.5 | 4514.9 |
| 27.5° | 4704.2 | 4736.3 | 4724.7 | 4771.2 | 4873.2 | 4896.5 | 4803.3 | 4707.2 | 4651.8 | 4631.4 | 4657.6 |
| 30° | 4957.6 | 4919.8 | 4928.5 | 4978.0 | 5068.4 | 5144.1 | 5001.3 | 4899.4 | 4823.6 | 4820.8 | 4832.4 |
| 32.5° | 5126.6 | 5155.8 | 5181.9 | 5228.6 | 5371.3 | 5429.5 | 5257.7 | 5091.7 | 5045.0 | 5018.8 | 5027.6 |
| 35° | 5464.5 | 5438.2 | 5432.4 | 5479.0 | 5621.7 | 5717.9 | 5502.3 | 5356.7 | 5295.5 | 5353.8 | 5353.8 |
| 37.5° | 5784.9 | 5712.1 | 5656.7 | 5717.9 | 5849.0 | 5860.6 | 5677.1 | 5598.5 | 5566.4 | 5633.4 | 5630.5 |
| 40° | 5936.4 | 5930.6 | 5802.4 | 5837.3 | 6012.1 | 6029.5 | 5857.7 | 5764.5 | 5758.7 | 5846.0 | 5933.4 |
| 42.5° | 6093.6 | 6038.3 | 5910.1 | 5933.4 | 6041.2 | 6047.0 | 5883.9 | 5857.7 | 5921.8 | 6006.3 | 6012.1 |
| 45° | 6119.9 | 6073.3 | 5991.7 | 5933.4 | 6012.1 | 6029.5 | 5933.4 | 5950.9 | 5956.7 | 6058.7 | 6058.7 |
| 47.5° | 6172.3 | 6166.5 | 6119.9 | 6076.1 | 6090.8 | 6076.1 | 6015.0 | 6041.2 | 6128.6 | 6178.2 | 6154.9 |
| 50° | 6317.9 | 6256.8 | 6303.4 | 6265.5 | 6268.4 | 6309.2 | 6253.8 | 6280.1 | 6262.6 | 6218.9 | 6189.8 |
| 52.5° | 6638.3 | 6609.3 | 6650.0 | 6676.2 | 6705.4 | 6798.6 | 6734.5 | 6594.6 | 6463.6 | 6347.0 | 6344.2 |
| 55° | 7107.3 | 7127.7 | 7206.4 | 7340.3 | 7454.0 | 7602.5 | 7293.7 | 6958.8 | 6749.0 | 6565.5 | 6577.2 |
| 57.5° | 7550.1 | 7535.5 | 7643.3 | 7949.1 | 8281.2 | 8356.9 | 7751.1 | 7273.4 | 6932.5 | 6816.1 | 6766.5 |
| 59° | 7194.7 | 7264.6 | 7509.3 | 7850.1 | 8371.5 | 8482.2 | 7689.9 | 7017.1 | 6655.8 | 6419.9 | 6460.6 |
| 60° | 6635.4 | 6661.6 | 6880.1 | 7354.9 | 8059.8 | 8249.1 | 7279.2 | 6620.9 | 6140.2 | 6003.4 | 6064.5 |
| 62.5° | 4689.7 | 4669.3 | 4826.6 | 5213.9 | 5846.0 | 6102.4 | 5412.1 | 4948.9 | 4645.9 | 4494.5 | 4529.5 |
| 65° | 2493.4 | 2586.6 | 2650.7 | 2892.5 | 3227.4 | 3498.3 | 3212.9 | 3011.9 | 2842.9 | 2717.7 | 2714.7 |
| 67.5° | 1683.6 | 1672.0 | 1686.5 | 1741.9 | 1855.5 | 1931.2 | 1925.4 | 1823.5 | 1808.9 | 1785.5 | 1811.8 |
| 70° | 1418.5 | 1412.7 | 1386.5 | 1386.5 | 1409.9 | 1427.3 | 1447.7 | 1459.3 | 1482.6 | 1511.8 | 1508.8 |
| 72.5° | 1150.6 | 1136.0 | 1118.5 | 1109.8 | 1138.9 | 1147.6 | 1173.9 | 1185.6 | 1205.9 | 1203.0 | 1229.2 |
| 75° | 760.3 | 760.3 | 780.6 | 803.9 | 812.7 | 830.2 | 833.1 | 868.0 | 868.0 | 873.9 | 850.6 |
| 77.5° | 425.3 | 413.6 | 428.2 | 451.4 | 471.9 | 503.9 | 536.0 | 562.2 | 576.8 | 571.0 | 571.0 |
| 80° | 247.6 | 247.6 | 262.1 | 288.4 | 314.6 | 343.7 | 367.0 | 387.4 | 402.0 | 396.1 | 384.5 |
| 82.5° | 154.4 | 154.4 | 169.0 | 195.2 | 215.5 | 233.0 | 265.1 | 291.3 | 308.7 | 302.9 | 288.4 |
| 85° | 78.6 | 78.6 | 96.1 | 113.6 | 139.8 | 151.5 | 148.5 | 136.9 | 134.0 | 119.4 | 119.4 |
| 87.5° | 20.4 | 20.4 | 29.1 | 32.0 | 26.2 | 29.1 | 29.1 | 29.1 | 29.1 | 29.1 | 32.0 |
| 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)