

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: P533084

Luminaire Tested: **GALN-SA8C-730-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-730-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45635 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

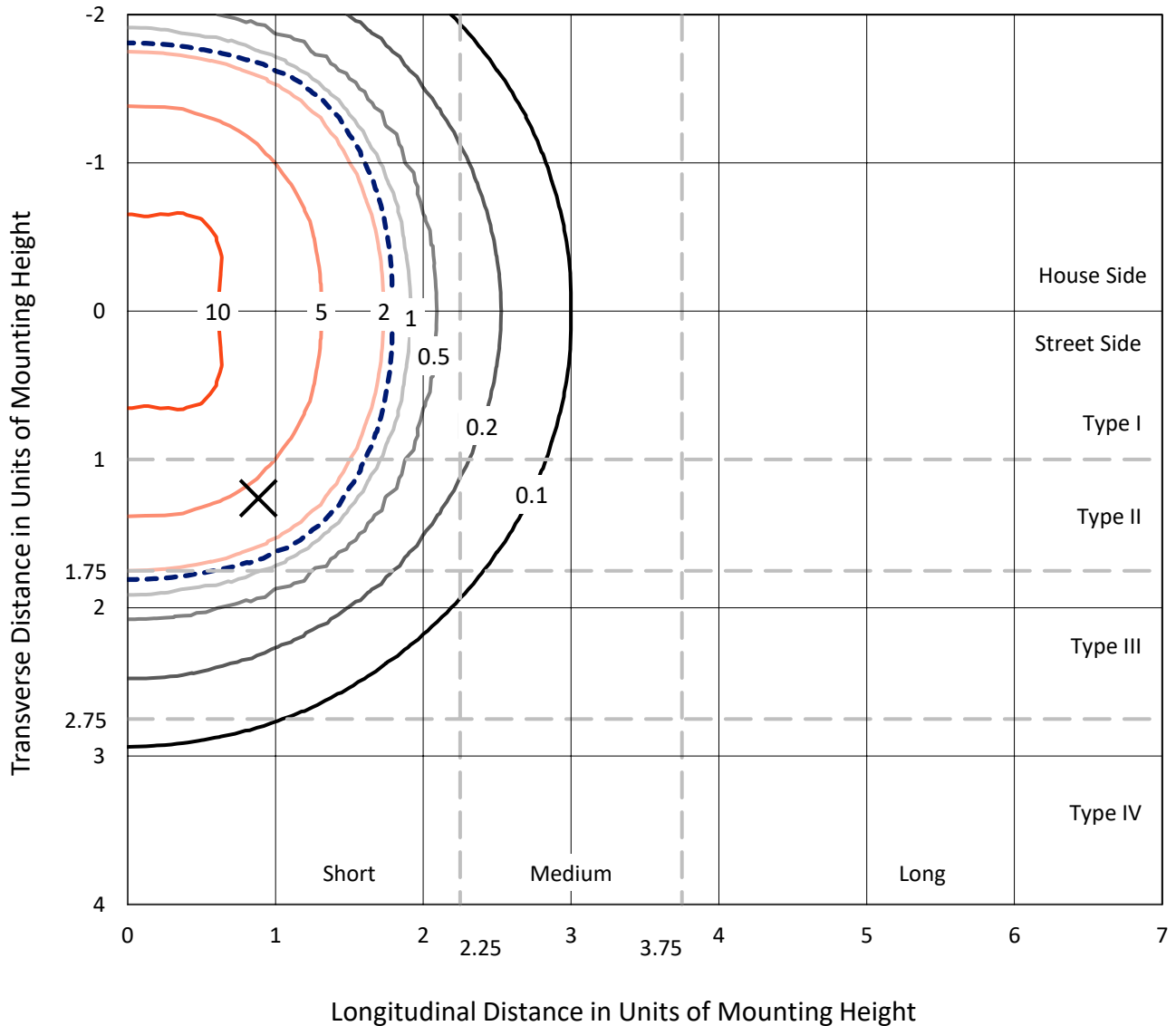
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

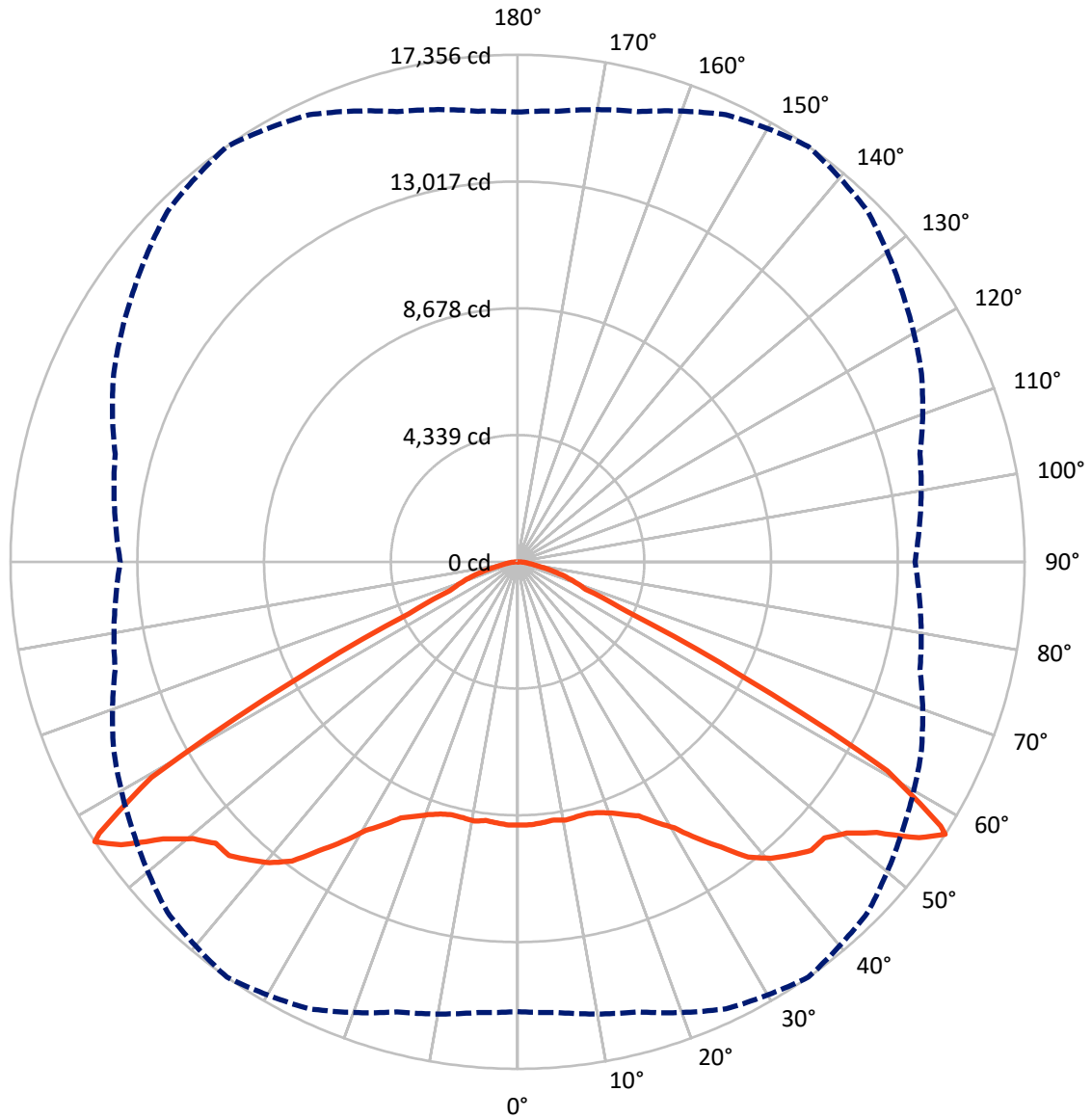
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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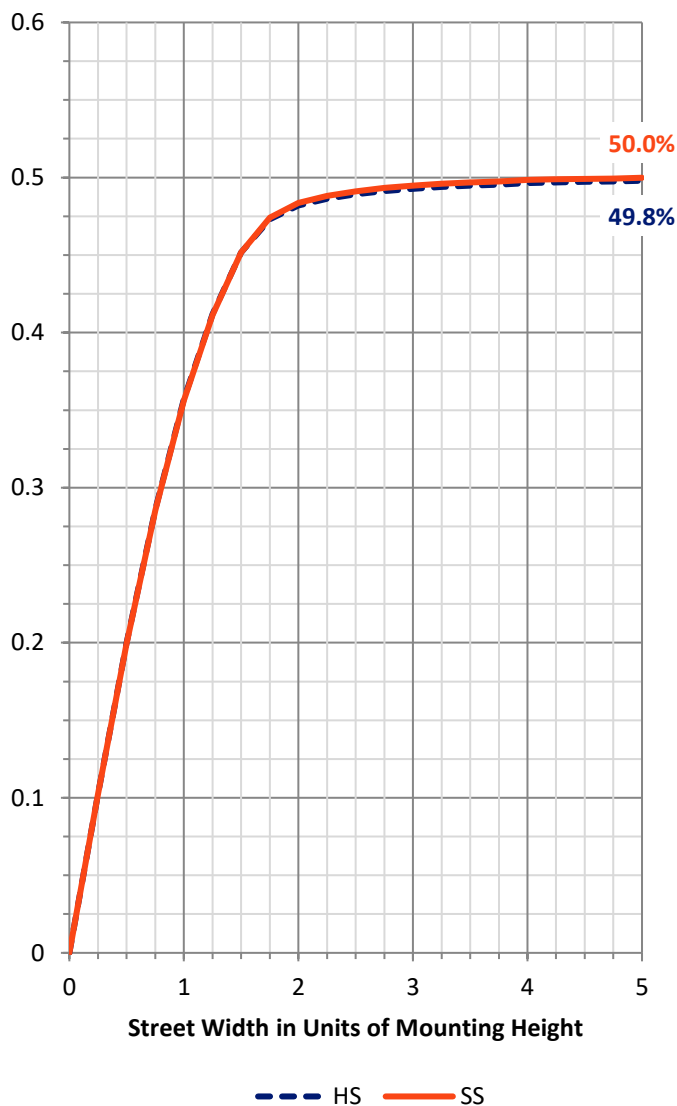
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 22817.5 | 0.0 | 22817.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 22817.5 | 0.0 | 22817.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 45635.0 | 0.0 | 45635.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 854.4 | 1.9 |
| 10°-20° | 2530.6 | 5.5 |
| 20°-30° | 4419.6 | 9.7 |
| 30°-40° | 7241.6 | 15.9 |
| 40°-50° | 10618.0 | 23.3 |
| 50°-60° | 13374.2 | 29.3 |
| 60°-70° | 5029.9 | 11.0 |
| 70°-80° | 1337.4 | 2.9 |
| 80°-90° | 229.3 | 0.5 |
| 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° | 45635.0 | 100.0 |
| 0°-180° | 45635.0 | 100.0 |

Coefficient of Utilization



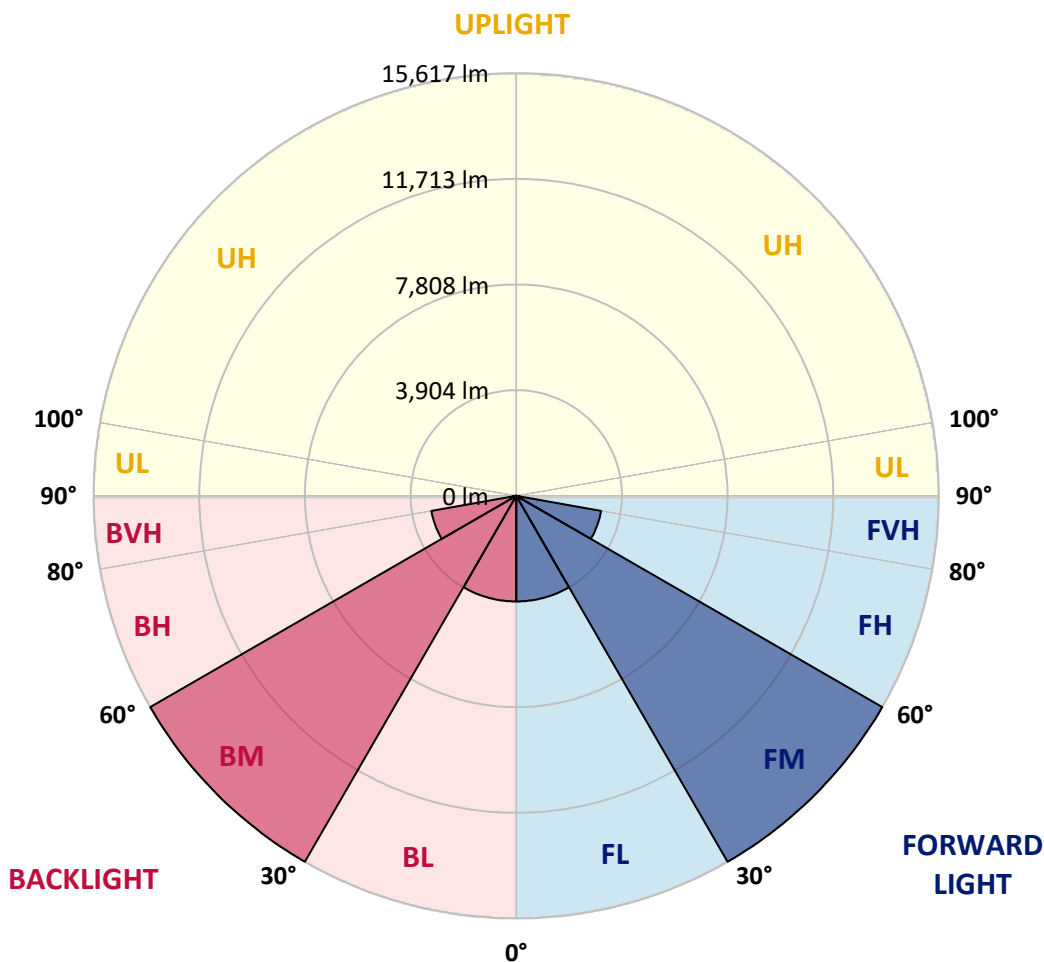
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3902.3 | 8.6 | | | |
| FM (30°-60°) | 15616.9 | 34.2 | | | |
| FH (60°-80°) | 3183.7 | 7.0 | | | G2/5000 |
| FVH (80°-90°) | 114.7 | 0.3 | | | G2/225 |
| BL (0°-30°) | 3902.3 | 8.6 | B4/5000 | | |
| BM (30°-60°) | 15616.9 | 34.2 | B5 | | |
| BH (60°-80°) | 3183.7 | 7.0 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 114.7 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9012.6 | 9012.6 | 9012.6 | 9012.6 | 9012.6 | 9012.6 | 9012.6 | 9012.6 | 9012.6 | 9012.6 | 9012.6 |
| 2.5° | 8967.6 | 9057.6 | 9018.2 | 8995.7 | 9012.6 | 8984.5 | 8939.5 | 8990.1 | 8978.8 | 8933.9 | 8917.0 |
| 5° | 8945.1 | 9012.6 | 8967.6 | 9012.6 | 8967.6 | 9046.3 | 9023.8 | 8939.5 | 9040.7 | 8945.1 | 8978.8 |
| 7.5° | 8928.2 | 8950.7 | 8962.0 | 8939.5 | 8922.6 | 9018.2 | 8967.6 | 8928.2 | 8872.0 | 8855.2 | 8883.3 |
| 10° | 8888.9 | 8945.1 | 8860.8 | 8973.2 | 8995.7 | 8928.2 | 8928.2 | 8855.2 | 8810.2 | 8782.1 | 8877.6 |
| 12.5° | 8990.1 | 8894.5 | 8883.3 | 8939.5 | 8956.4 | 8984.5 | 8905.8 | 8866.4 | 8782.1 | 8793.3 | 8776.4 |
| 15° | 8872.0 | 8911.4 | 8917.0 | 8928.2 | 8945.1 | 9012.6 | 8939.5 | 8855.2 | 8821.4 | 8703.3 | 8714.6 |
| 17.5° | 8917.0 | 8877.6 | 8917.0 | 9046.3 | 9023.8 | 9074.4 | 8995.7 | 8866.4 | 8787.7 | 8720.2 | 8810.2 |
| 20° | 8995.7 | 8978.8 | 8995.7 | 9153.1 | 9181.2 | 9226.2 | 9158.8 | 9040.7 | 8888.9 | 8810.2 | 8855.2 |
| 22.5° | 9080.0 | 9068.8 | 9080.0 | 9231.8 | 9394.9 | 9451.1 | 9383.6 | 9108.2 | 9029.4 | 8883.3 | 8832.7 |
| 25° | 9231.8 | 9243.1 | 9361.2 | 9529.8 | 9636.7 | 9743.5 | 9619.8 | 9423.0 | 9170.0 | 9080.0 | 8973.2 |
| 27.5° | 9569.2 | 9597.3 | 9664.8 | 9912.1 | 10097.7 | 10193.3 | 10019.0 | 9749.1 | 9591.7 | 9406.1 | 9378.0 |
| 30° | 9985.2 | 9985.2 | 10103.3 | 10317.0 | 10570.0 | 10716.1 | 10502.5 | 10182.0 | 9990.9 | 9889.7 | 9827.8 |
| 32.5° | 10536.2 | 10474.4 | 10519.4 | 10896.1 | 11289.6 | 11413.3 | 11126.6 | 10733.0 | 10429.4 | 10294.5 | 10249.5 |
| 35° | 11008.5 | 11047.9 | 11149.1 | 11553.9 | 11992.4 | 12279.1 | 11829.4 | 11317.7 | 11008.5 | 10884.8 | 10862.3 |
| 37.5° | 11621.3 | 11688.8 | 11739.4 | 12296.0 | 12824.5 | 12931.3 | 12498.4 | 12088.0 | 11711.3 | 11610.1 | 11553.9 |
| 40° | 12487.2 | 12442.2 | 12459.1 | 12869.5 | 13347.4 | 13414.9 | 12987.6 | 12695.2 | 12386.0 | 12324.1 | 12324.1 |
| 42.5° | 13201.2 | 13150.6 | 13206.8 | 13358.6 | 13724.1 | 13673.5 | 13437.3 | 13223.7 | 13094.4 | 13026.9 | 13094.4 |
| 45° | 13634.1 | 13622.9 | 13724.1 | 13836.5 | 14095.2 | 13926.5 | 13740.9 | 13774.7 | 13651.0 | 13538.5 | 13532.9 |
| 47.5° | 14106.4 | 14033.3 | 14157.0 | 14325.7 | 14128.9 | 14050.2 | 14038.9 | 14112.0 | 14072.7 | 13875.9 | 13814.0 |
| 50° | 14336.9 | 14308.8 | 14505.6 | 14702.4 | 14595.5 | 14415.6 | 14455.0 | 14573.0 | 14067.0 | 13802.8 | 13651.0 |
| 52.5° | 14955.4 | 14961.0 | 15337.7 | 15444.5 | 15399.5 | 15135.3 | 15219.6 | 14899.1 | 14303.2 | 13932.1 | 13949.0 |
| 55° | 15928.0 | 15888.7 | 16310.3 | 16625.2 | 16675.8 | 16338.5 | 15933.7 | 15483.9 | 14736.1 | 14359.4 | 14247.0 |
| 57° | 15393.9 | 15483.9 | 15950.5 | 16883.8 | 17356.1 | 16956.9 | 16074.2 | 15253.3 | 14258.2 | 13802.8 | 13600.4 |
| 57.5° | 14679.9 | 14826.1 | 15635.7 | 16574.6 | 17069.4 | 17035.6 | 15899.9 | 14826.1 | 13937.7 | 13229.3 | 13246.2 |
| 60° | 10755.5 | 10783.6 | 11514.5 | 13004.4 | 14550.6 | 14584.3 | 13201.2 | 11778.8 | 10789.2 | 10019.0 | 10125.8 |
| 62.5° | 5672.9 | 5802.2 | 6094.6 | 7292.1 | 8630.3 | 8956.4 | 8118.6 | 7387.7 | 6533.1 | 5948.4 | 6004.6 |
| 65° | 3002.3 | 2985.5 | 3126.0 | 3463.3 | 4121.2 | 4289.8 | 4177.4 | 3598.3 | 3300.3 | 3204.7 | 3210.3 |
| 67.5° | 2440.1 | 2468.2 | 2451.3 | 2468.2 | 2513.2 | 2586.3 | 2569.4 | 2591.9 | 2608.8 | 2636.9 | 2631.2 |
| 70° | 2069.0 | 2069.0 | 2080.3 | 2085.9 | 2085.9 | 2119.6 | 2159.0 | 2232.1 | 2237.7 | 2265.8 | 2277.0 |
| 72.5° | 1630.5 | 1619.2 | 1636.1 | 1675.5 | 1681.1 | 1709.2 | 1765.4 | 1810.4 | 1827.3 | 1827.3 | 1793.5 |
| 75° | 1107.6 | 1118.8 | 1141.3 | 1175.1 | 1208.8 | 1259.4 | 1304.4 | 1332.5 | 1343.7 | 1326.9 | 1310.0 |
| 77.5° | 624.1 | 635.3 | 652.2 | 702.8 | 742.1 | 787.1 | 837.7 | 865.8 | 893.9 | 899.6 | 865.8 |
| 80° | 371.1 | 371.1 | 399.2 | 438.5 | 483.5 | 528.5 | 573.5 | 607.2 | 618.5 | 618.5 | 601.6 |
| 82.5° | 224.9 | 230.5 | 253.0 | 292.4 | 331.7 | 359.8 | 399.2 | 427.3 | 449.8 | 444.2 | 432.9 |
| 85° | 118.1 | 118.1 | 140.6 | 174.3 | 202.4 | 230.5 | 230.5 | 213.6 | 202.4 | 174.3 | 163.0 |
| 87.5° | 39.4 | 33.7 | 45.0 | 45.0 | 39.4 | 45.0 | 45.0 | 50.6 | 50.6 | 50.6 | 50.6 |
| 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)