

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: P383551

Luminaire Tested: **GLEON-SA8C-735-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8C-735-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54469.4 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

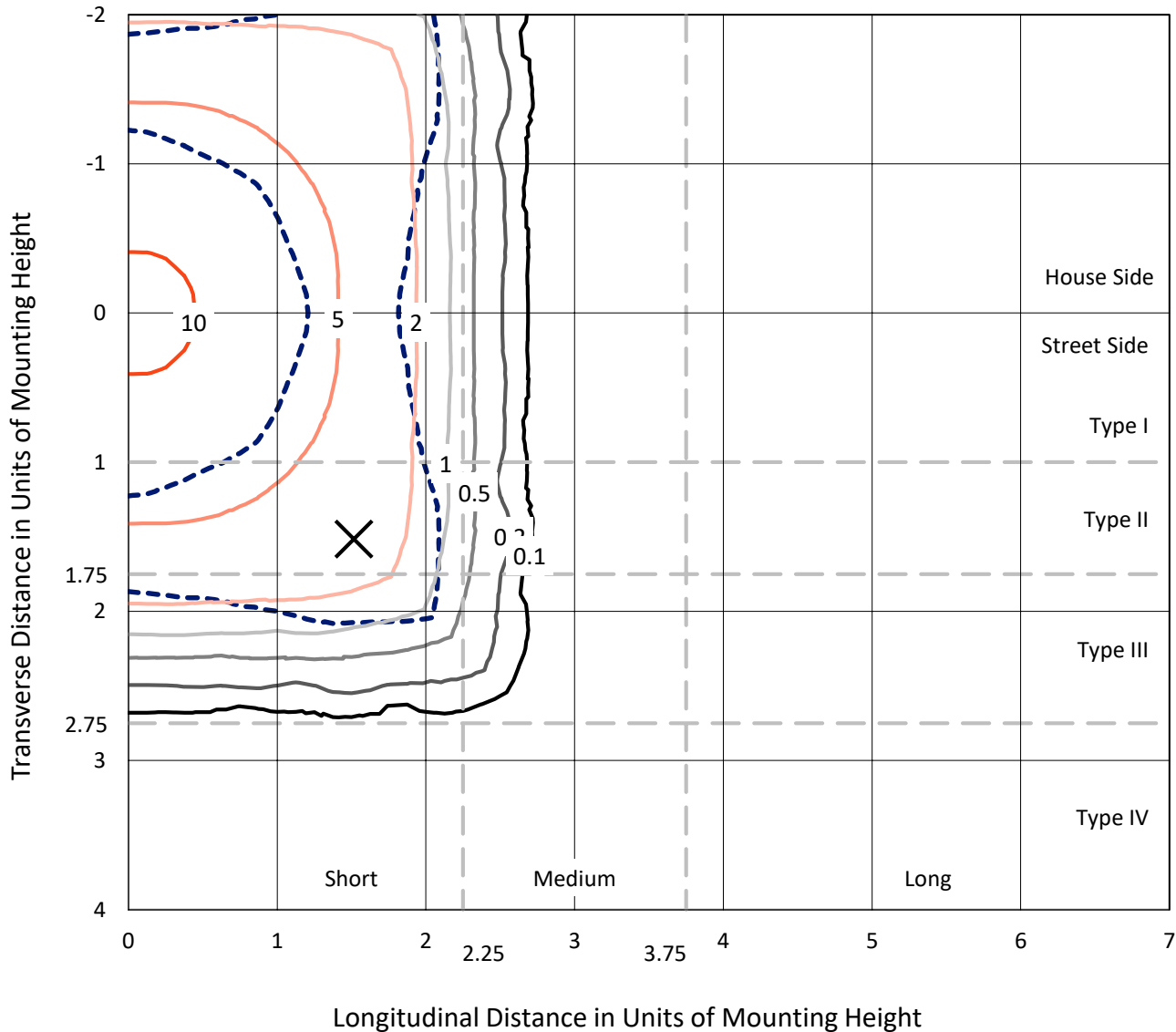
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

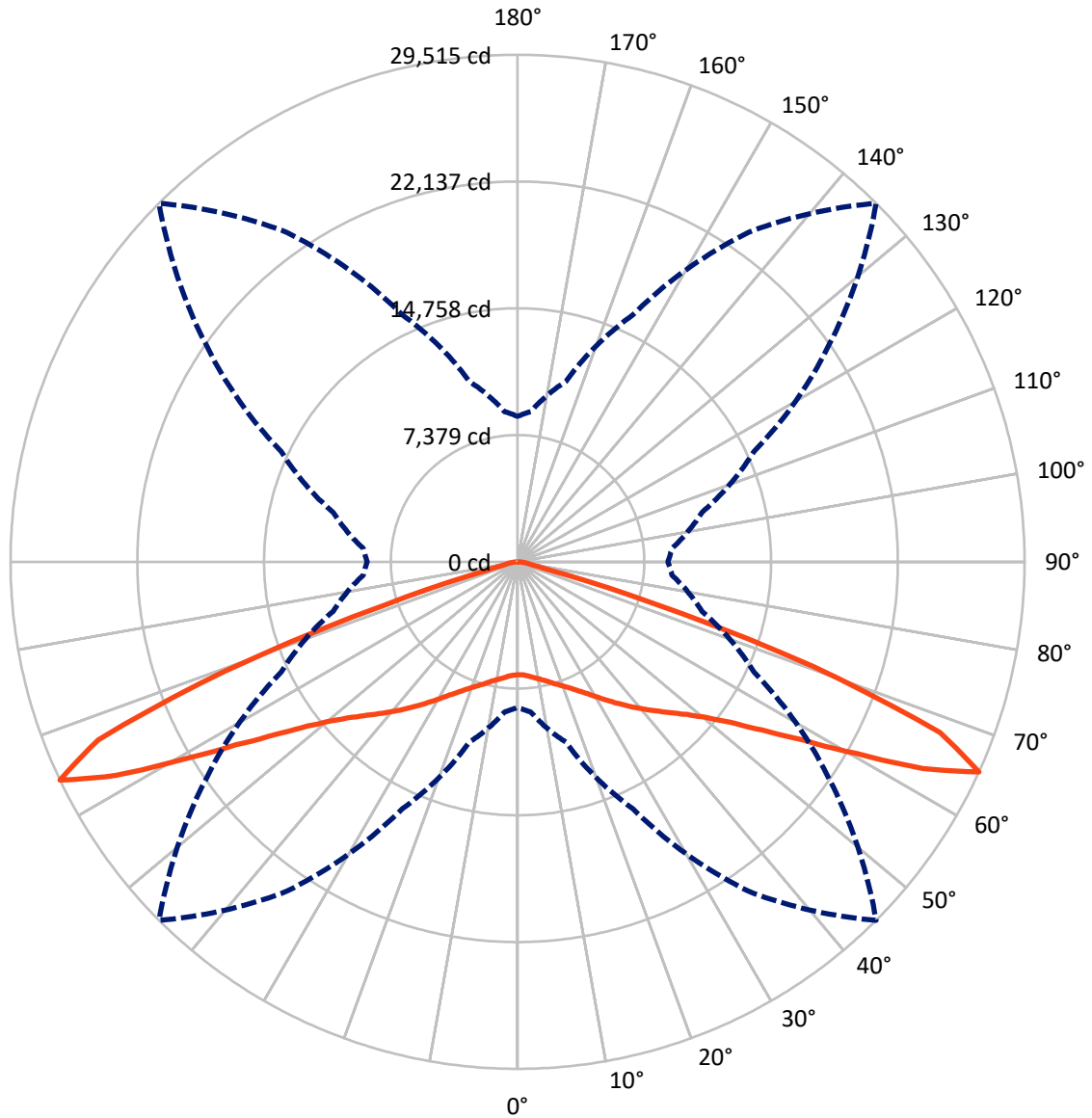
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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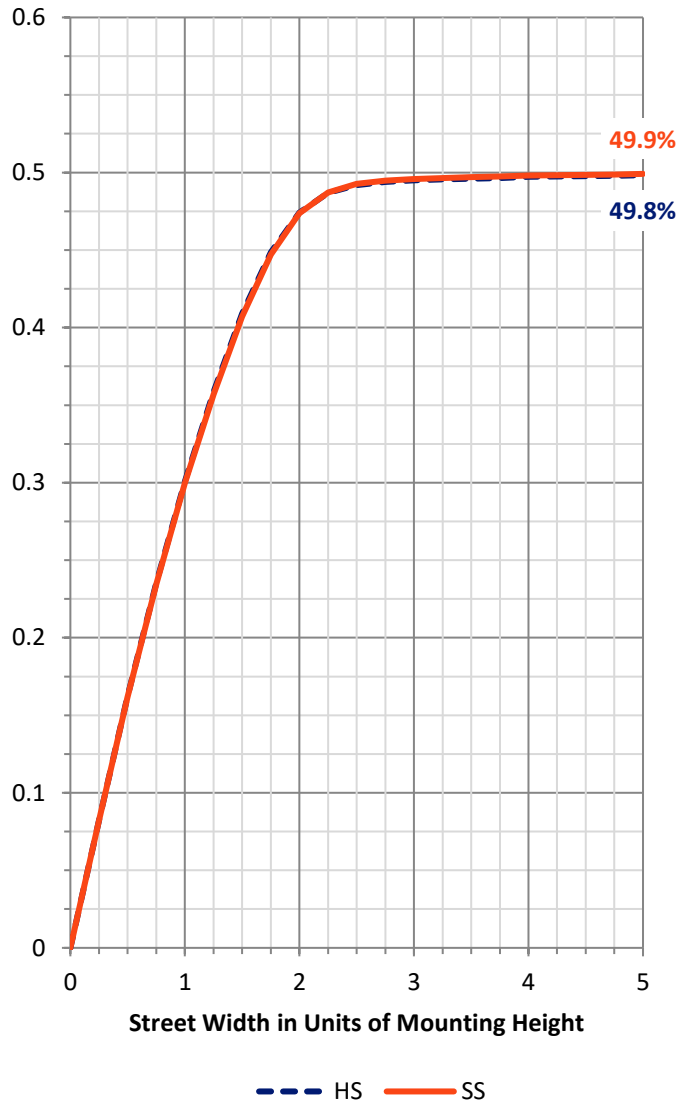
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 27234.7 | 0.0 | 27234.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 27234.7 | 0.0 | 27234.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 54469.4 | 0.0 | 54469.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 645.4 | 1.2 |
| 10°-20° | 2074.4 | 3.8 |
| 20°-30° | 3892.0 | 7.1 |
| 30°-40° | 6436.6 | 11.8 |
| 40°-50° | 9969.4 | 18.3 |
| 50°-60° | 15290.3 | 28.1 |
| 60°-70° | 14267.6 | 26.2 |
| 70°-80° | 1660.5 | 3.0 |
| 80°-90° | 233.3 | 0.4 |
| 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° | 54469.4 | 100.0 |
| 0°-180° | 54469.4 | 100.0 |

Coefficient of Utilization



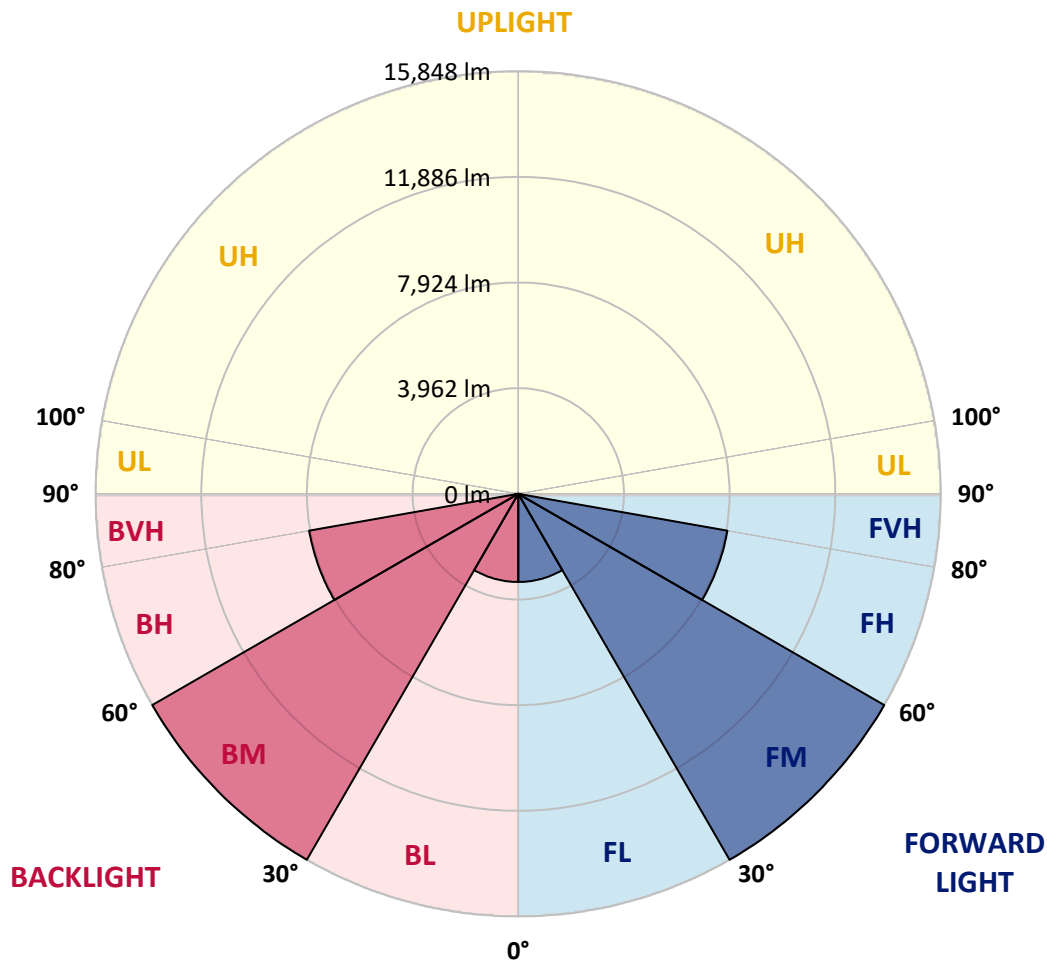
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3305.9 | 6.1 | | | |
| FM (30°-60°) | 15848.1 | 29.1 | | | |
| FH (60°-80°) | 7964.0 | 14.6 | | | G4/12000 |
| FVH (80°-90°) | 116.7 | 0.2 | | | G2/225 |
| BL (0°-30°) | 3305.9 | 6.1 | B4/5000 | | |
| BM (30°-60°) | 15848.1 | 29.1 | B5 | | |
| BH (60°-80°) | 7964.0 | 14.6 | B5 | | G4/12000 |
| BVH (80°-90°) | 116.7 | 0.2 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6577.8 | 6577.8 | 6577.8 | 6577.8 | 6577.8 | 6577.8 | 6577.8 | 6577.8 | 6577.8 | 6577.8 | 6577.8 |
| 2.5° | 6599.5 | 6595.9 | 6599.5 | 6601.4 | 6590.5 | 6595.9 | 6594.1 | 6603.2 | 6606.8 | 6603.2 | 6603.2 |
| 5° | 6675.5 | 6670.1 | 6677.3 | 6686.4 | 6671.9 | 6675.5 | 6670.1 | 6681.0 | 6684.6 | 6677.3 | 6682.7 |
| 7.5° | 6780.4 | 6782.2 | 6789.4 | 6805.7 | 6796.7 | 6803.9 | 6793.0 | 6794.9 | 6793.0 | 6782.2 | 6784.0 |
| 10° | 6894.3 | 6896.1 | 6908.7 | 6930.4 | 6934.1 | 6934.1 | 6926.8 | 6921.4 | 6914.2 | 6907.0 | 6908.7 |
| 12.5° | 7031.7 | 7040.7 | 7049.8 | 7076.9 | 7076.9 | 7091.4 | 7087.8 | 7073.3 | 7060.7 | 7049.8 | 7049.8 |
| 15° | 7217.9 | 7216.1 | 7226.9 | 7254.1 | 7266.7 | 7290.3 | 7290.3 | 7270.4 | 7254.1 | 7243.2 | 7239.6 |
| 17.5° | 7413.3 | 7418.7 | 7425.8 | 7458.4 | 7478.3 | 7505.5 | 7509.0 | 7492.8 | 7481.9 | 7467.5 | 7458.4 |
| 20° | 7641.0 | 7650.1 | 7679.0 | 7691.7 | 7709.8 | 7735.1 | 7744.1 | 7740.5 | 7729.6 | 7722.4 | 7724.2 |
| 22.5° | 7906.8 | 7930.4 | 7948.4 | 7966.5 | 7988.2 | 8006.3 | 8015.3 | 8028.0 | 8017.1 | 8011.7 | 8008.0 |
| 25° | 8228.6 | 8244.9 | 8281.1 | 8313.7 | 8328.1 | 8333.5 | 8344.4 | 8362.5 | 8360.6 | 8348.0 | 8348.0 |
| 27.5° | 8593.9 | 8624.6 | 8669.8 | 8716.9 | 8716.9 | 8698.8 | 8734.9 | 8765.7 | 8754.9 | 8738.6 | 8716.9 |
| 30° | 9036.9 | 9065.8 | 9118.3 | 9183.4 | 9150.8 | 9138.1 | 9186.9 | 9243.0 | 9226.7 | 9199.6 | 9196.1 |
| 32.5° | 9514.3 | 9541.4 | 9610.0 | 9680.5 | 9639.0 | 9620.9 | 9673.4 | 9754.7 | 9725.8 | 9671.5 | 9639.0 |
| 35° | 10031.4 | 10058.5 | 10156.1 | 10241.1 | 10170.5 | 10139.8 | 10183.2 | 10271.8 | 10221.2 | 10120.0 | 10094.6 |
| 37.5° | 10593.7 | 10608.1 | 10734.7 | 10821.5 | 10772.7 | 10691.3 | 10745.6 | 10810.6 | 10767.3 | 10644.3 | 10595.5 |
| 40° | 11177.7 | 11230.1 | 11376.6 | 11477.9 | 11392.8 | 11264.5 | 11354.9 | 11445.3 | 11380.2 | 11222.9 | 11139.7 |
| 42.5° | 11859.3 | 11899.1 | 12094.4 | 12184.8 | 12047.4 | 11866.6 | 11989.5 | 12112.4 | 12047.4 | 11895.5 | 11823.2 |
| 45° | 12568.2 | 12629.5 | 12862.8 | 12953.3 | 12754.4 | 12524.8 | 12674.8 | 12889.9 | 12884.5 | 12665.8 | 12589.8 |
| 47.5° | 13340.1 | 13401.6 | 13680.1 | 13799.5 | 13584.3 | 13276.9 | 13488.4 | 13792.2 | 13770.5 | 13530.0 | 13468.6 |
| 50° | 14231.5 | 14296.6 | 14643.8 | 14793.9 | 14593.2 | 14235.2 | 14553.4 | 14821.0 | 14781.2 | 14484.7 | 14490.1 |
| 52.5° | 15350.8 | 15347.2 | 15779.3 | 16039.7 | 15833.5 | 15517.2 | 15810.0 | 16070.4 | 15905.9 | 15495.5 | 15482.8 |
| 55° | 16330.8 | 16390.5 | 16925.7 | 17419.3 | 17406.6 | 17285.4 | 17403.0 | 17413.8 | 16943.7 | 16397.7 | 16330.8 |
| 57.5° | 16974.5 | 17088.4 | 17842.4 | 18735.6 | 19404.5 | 19565.5 | 19337.6 | 18647.0 | 17545.8 | 16672.5 | 16565.8 |
| 60° | 16578.5 | 16752.1 | 17936.4 | 19757.1 | 21728.0 | 22673.6 | 21388.1 | 19245.4 | 17077.5 | 15860.7 | 15716.0 |
| 62.5° | 13906.1 | 14199.0 | 15933.0 | 19263.6 | 23727.7 | 26492.3 | 22874.3 | 18285.3 | 15215.2 | 13539.1 | 13291.3 |
| 65° | 8469.2 | 8778.3 | 10868.5 | 15855.2 | 23404.1 | 29515.4 | 22196.3 | 15177.2 | 11105.4 | 9020.6 | 8753.0 |
| 67.5° | 2822.4 | 2912.9 | 4144.2 | 8763.9 | 18393.8 | 26519.4 | 18424.5 | 9085.8 | 4833.1 | 3204.0 | 3110.0 |
| 70° | 1104.7 | 1113.8 | 1314.5 | 2540.4 | 8686.1 | 18214.8 | 9584.8 | 2585.6 | 1374.1 | 1086.7 | 1110.2 |
| 72.5° | 811.8 | 815.5 | 871.5 | 1061.3 | 2263.8 | 8024.4 | 2345.1 | 1066.8 | 848.0 | 761.2 | 761.2 |
| 75° | 652.7 | 652.7 | 692.5 | 773.8 | 1014.4 | 1840.6 | 1028.8 | 764.8 | 663.5 | 607.6 | 600.3 |
| 77.5° | 515.3 | 526.1 | 556.9 | 609.3 | 687.1 | 886.0 | 712.4 | 605.7 | 535.2 | 482.7 | 471.9 |
| 80° | 383.3 | 394.1 | 444.8 | 470.2 | 493.6 | 614.7 | 526.1 | 473.7 | 423.1 | 361.6 | 350.7 |
| 82.5° | 251.3 | 262.1 | 325.5 | 339.9 | 334.5 | 401.4 | 354.4 | 349.0 | 311.0 | 233.3 | 222.4 |
| 85° | 164.5 | 168.1 | 217.0 | 226.0 | 207.9 | 182.6 | 226.0 | 238.7 | 217.0 | 151.8 | 146.4 |
| 87.5° | 77.8 | 77.8 | 110.3 | 103.0 | 94.0 | 75.9 | 103.0 | 121.1 | 123.0 | 74.2 | 72.3 |
| 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)