

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: P647543

Luminaire Tested: **GALN-SA7D-835-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647543
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-SA7D-835-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43528.5 lumens
Efficiency: N/A
Efficacy: 100.5 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

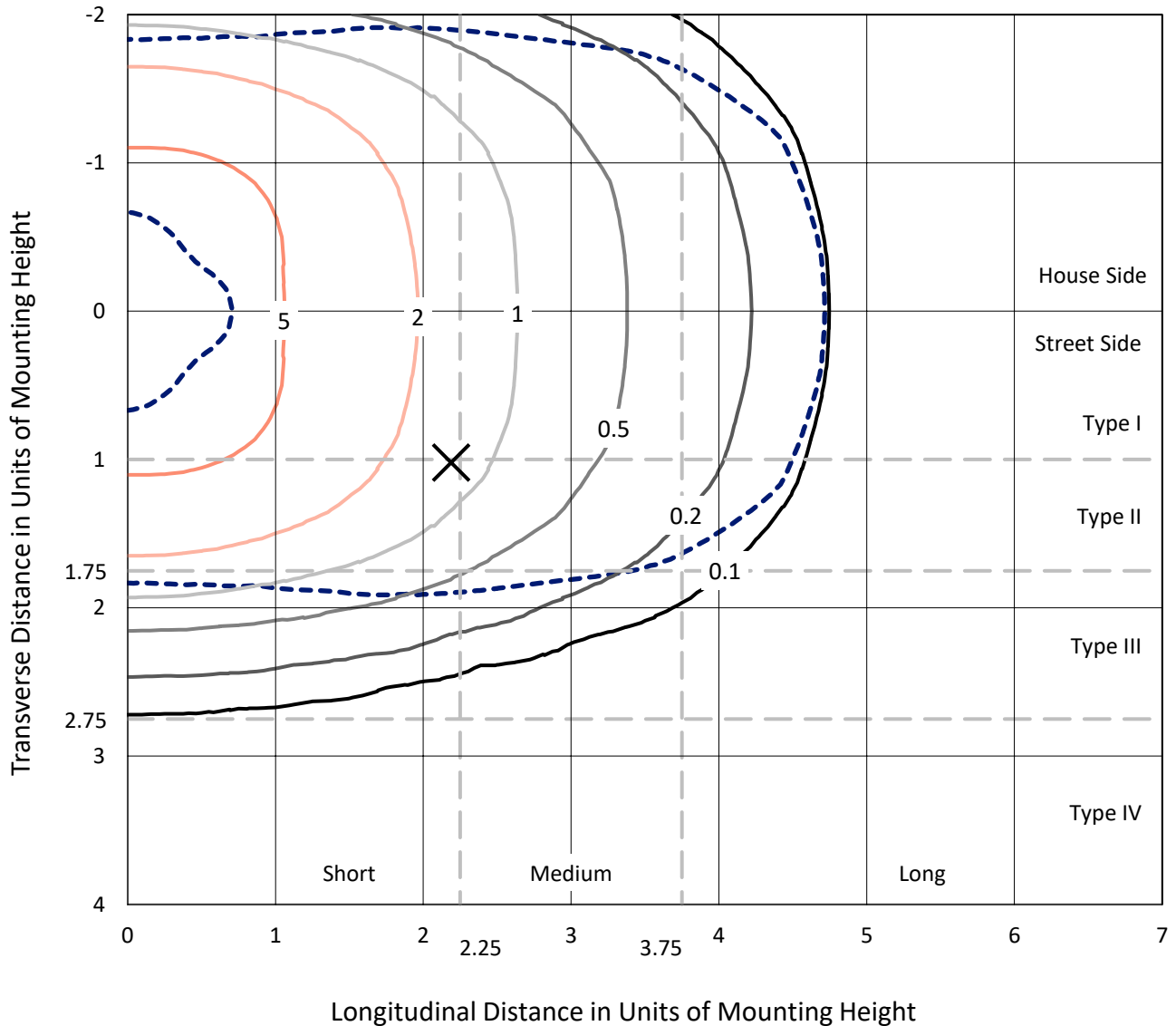
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

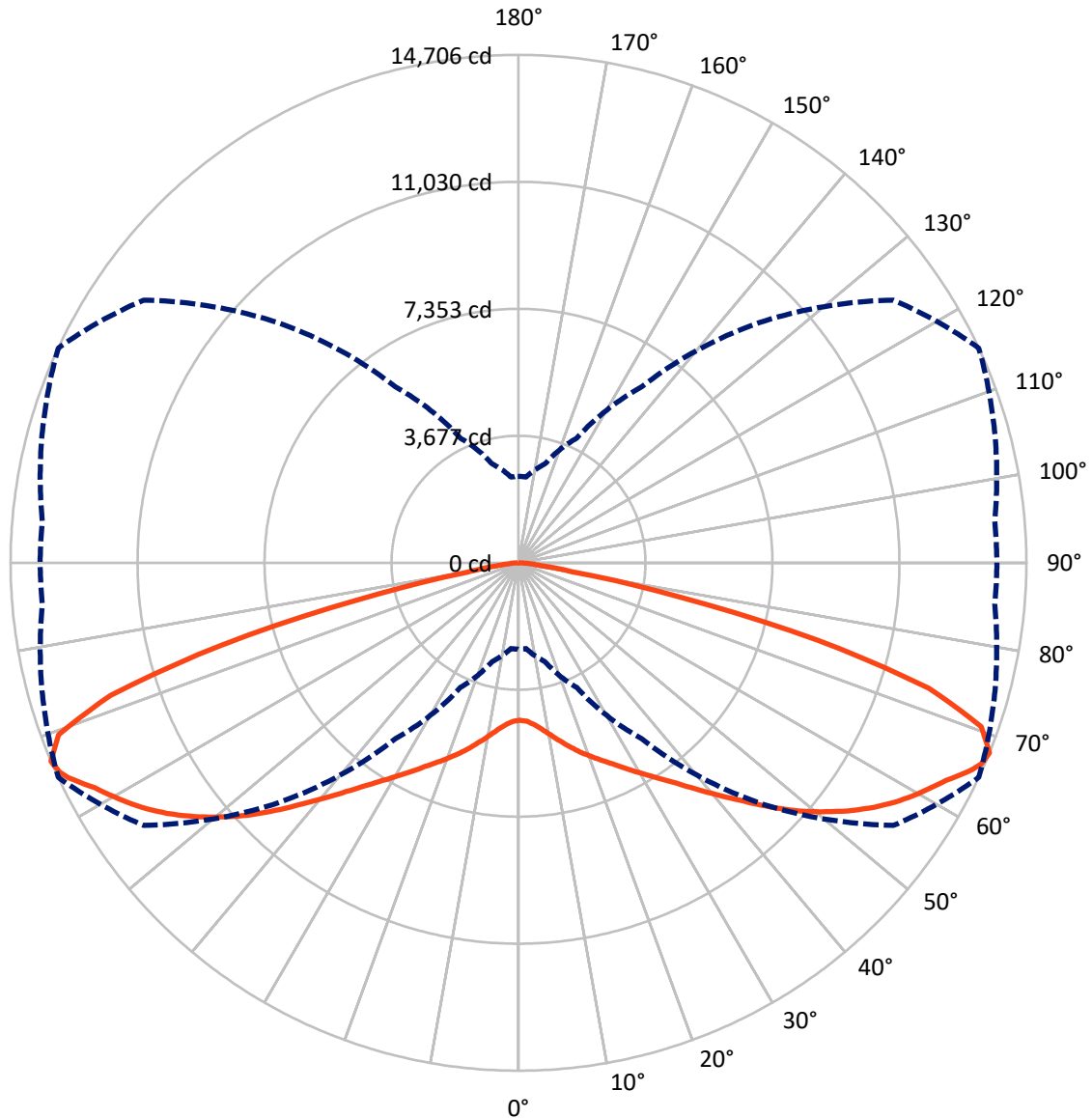
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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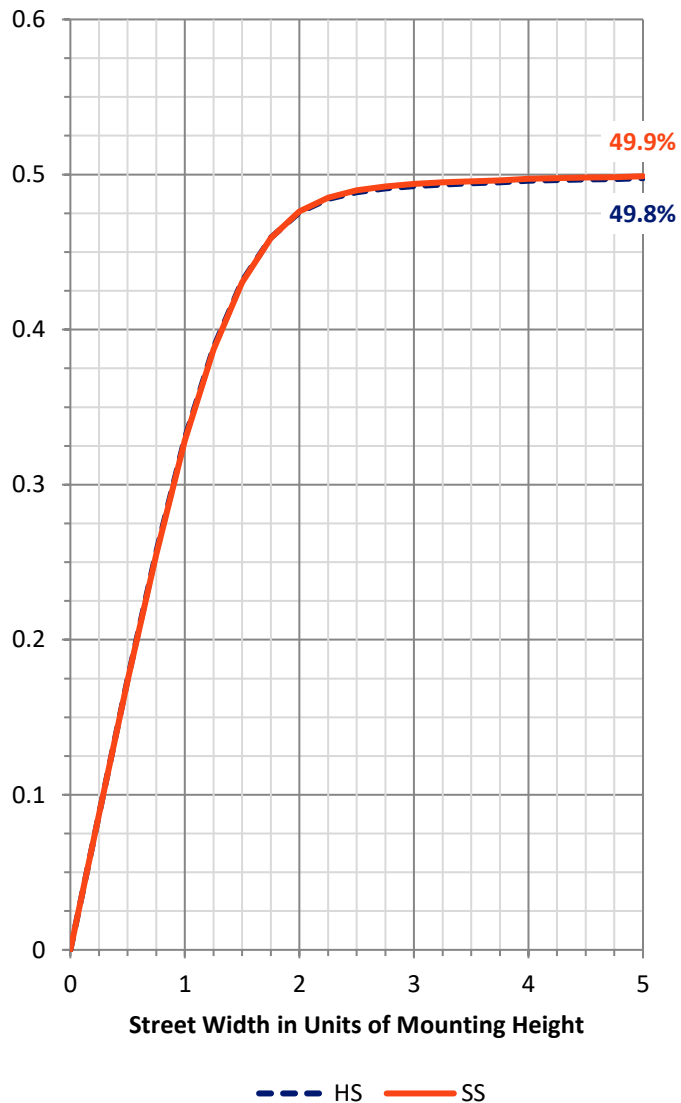
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 21764.3 | 0.0 | 21764.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 21764.3 | 0.0 | 21764.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 43528.5 | 0.0 | 43528.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 449.7 | 1.0 |
| 10°-20° | 1505.0 | 3.5 |
| 20°-30° | 2943.8 | 6.8 |
| 30°-40° | 5007.1 | 11.5 |
| 40°-50° | 7924.7 | 18.2 |
| 50°-60° | 10508.0 | 24.1 |
| 60°-70° | 9912.3 | 22.8 |
| 70°-80° | 4900.2 | 11.3 |
| 80°-90° | 377.6 | 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° | 43528.5 | 100.0 |
| 0°-180° | 43528.5 | 100.0 |

Coefficient of Utilization

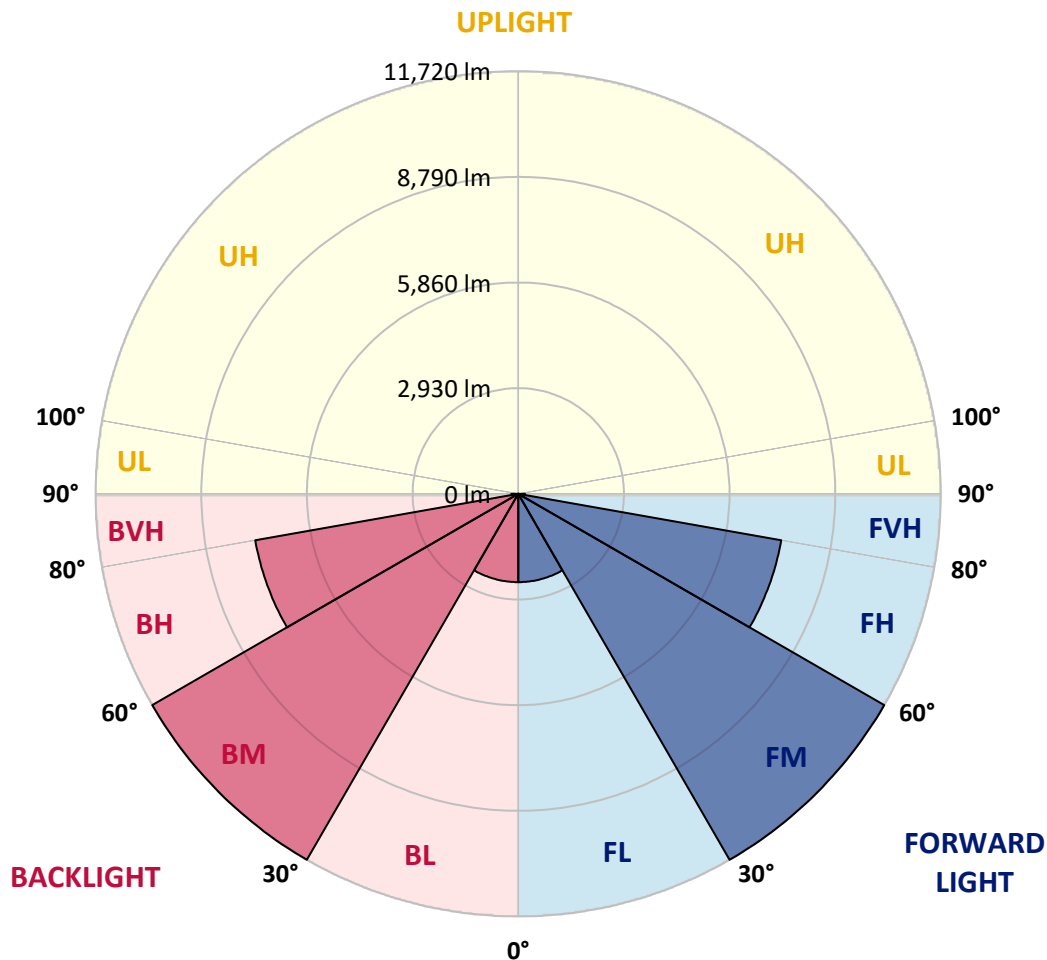


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2449.2 | 5.6 | | | |
| FM (30°-60°) | 11720.0 | 26.9 | | | |
| FH (60°-80°) | 7406.2 | 17.0 | | | G3/7500 |
| FVH (80°-90°) | 188.8 | 0.4 | | | G2/225 |
| BL (0°-30°) | 2449.2 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 11720.0 | 26.9 | B5 | | |
| BH (60°-80°) | 7406.2 | 17.0 | B5 | | G5 |
| BVH (80°-90°) | 188.8 | 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° | 4559.3 | 4559.3 | 4559.3 | 4559.3 | 4559.3 | 4559.3 | 4559.3 | 4559.3 | 4559.3 | 4559.3 | 4559.3 |
| 2.5° | 4535.9 | 4540.5 | 4545.2 | 4552.2 | 4561.5 | 4575.5 | 4584.9 | 4591.9 | 4610.5 | 4612.9 | 4610.5 |
| 5° | 4519.6 | 4524.3 | 4535.9 | 4556.9 | 4587.2 | 4629.2 | 4661.8 | 4701.5 | 4731.8 | 4752.8 | 4748.1 |
| 7.5° | 4517.3 | 4526.6 | 4545.2 | 4589.6 | 4647.9 | 4720.2 | 4794.8 | 4862.4 | 4920.7 | 4967.4 | 4960.4 |
| 10° | 4554.6 | 4566.2 | 4596.5 | 4661.8 | 4752.8 | 4857.7 | 4962.7 | 5063.0 | 5146.9 | 5207.6 | 5228.6 |
| 12.5° | 4617.5 | 4626.8 | 4682.8 | 4780.8 | 4911.4 | 5042.0 | 5160.9 | 5284.5 | 5401.1 | 5503.7 | 5503.7 |
| 15° | 4727.1 | 4743.5 | 4813.4 | 4955.7 | 5116.6 | 5268.2 | 5389.5 | 5520.1 | 5646.0 | 5762.6 | 5797.6 |
| 17.5° | 4878.7 | 4902.0 | 5007.0 | 5188.9 | 5394.1 | 5534.0 | 5648.3 | 5755.6 | 5865.2 | 5977.1 | 5993.5 |
| 20° | 5086.3 | 5109.6 | 5249.5 | 5468.7 | 5711.3 | 5879.2 | 5956.1 | 5981.8 | 6035.4 | 6142.7 | 6156.7 |
| 22.5° | 5368.5 | 5391.8 | 5548.0 | 5795.2 | 6065.7 | 6247.6 | 6280.3 | 6219.7 | 6205.7 | 6289.6 | 6299.0 |
| 25° | 5687.9 | 5708.9 | 5888.6 | 6154.4 | 6434.2 | 6632.5 | 6623.2 | 6473.8 | 6389.9 | 6441.2 | 6455.2 |
| 27.5° | 6047.1 | 6077.4 | 6259.3 | 6534.5 | 6837.7 | 7012.5 | 6984.6 | 6767.7 | 6588.2 | 6578.8 | 6583.5 |
| 30° | 6506.5 | 6539.1 | 6711.7 | 6975.3 | 7273.8 | 7434.7 | 7376.4 | 7084.9 | 6807.3 | 6714.1 | 6714.1 |
| 32.5° | 6991.6 | 7073.2 | 7248.2 | 7523.3 | 7756.6 | 7873.1 | 7784.5 | 7434.7 | 7066.3 | 6935.7 | 6928.6 |
| 35° | 7623.6 | 7667.9 | 7840.5 | 8108.7 | 8283.6 | 8374.5 | 8204.3 | 7828.8 | 7404.4 | 7250.4 | 7229.4 |
| 37.5° | 8241.6 | 8278.9 | 8479.5 | 8736.0 | 8948.2 | 8943.6 | 8712.7 | 8297.5 | 7824.1 | 7651.6 | 7637.6 |
| 40° | 8873.6 | 8913.2 | 9141.8 | 9377.3 | 9589.6 | 9570.9 | 9291.0 | 8826.9 | 8323.2 | 8129.7 | 8167.0 |
| 42.5° | 9421.6 | 9465.9 | 9724.8 | 10060.6 | 10251.8 | 10247.2 | 9923.0 | 9400.6 | 8875.9 | 8703.4 | 8736.0 |
| 45° | 9920.7 | 9960.3 | 10261.2 | 10646.0 | 10925.8 | 10960.8 | 10606.4 | 10053.6 | 9514.9 | 9293.3 | 9302.7 |
| 47.5° | 10272.9 | 10347.5 | 10662.3 | 11103.1 | 11483.2 | 11606.8 | 11259.3 | 10718.3 | 10098.0 | 9867.1 | 9881.1 |
| 50° | 10541.1 | 10587.6 | 10930.5 | 11431.9 | 11912.3 | 12168.8 | 11889.0 | 11333.9 | 10681.0 | 10436.1 | 10468.7 |
| 52.5° | 10573.7 | 10629.6 | 11002.8 | 11581.1 | 12196.8 | 12586.3 | 12448.7 | 11935.7 | 11275.7 | 11023.8 | 11093.7 |
| 55° | 10307.8 | 10340.5 | 10785.9 | 11487.9 | 12308.8 | 12896.5 | 12931.4 | 12495.3 | 11842.3 | 11651.1 | 11697.8 |
| 57.5° | 9549.9 | 9633.9 | 10198.2 | 11051.7 | 12154.8 | 13062.0 | 13292.9 | 13003.8 | 12416.0 | 12227.2 | 12301.8 |
| 60° | 8306.9 | 8390.9 | 8957.5 | 10039.6 | 11574.1 | 12985.0 | 13591.4 | 13453.8 | 12936.1 | 12784.5 | 12824.1 |
| 62.5° | 6508.8 | 6501.9 | 7203.8 | 8530.8 | 10419.8 | 12607.2 | 13813.0 | 13887.6 | 13449.1 | 13257.9 | 13318.5 |
| 65° | 4218.7 | 4239.7 | 4918.3 | 6347.9 | 8677.7 | 11646.4 | 13861.9 | 14440.3 | 13952.9 | 13663.7 | 13708.0 |
| 66° | 3393.2 | 3456.2 | 4032.2 | 5349.8 | 7789.2 | 11016.8 | 13715.0 | 14603.5 | 14106.8 | 13757.0 | 13778.0 |
| 67.5° | 2504.7 | 2493.0 | 2966.4 | 3983.2 | 6219.7 | 9820.4 | 13255.6 | 14706.1 | 14281.7 | 13840.9 | 13850.3 |
| 70° | 1429.6 | 1427.3 | 1595.1 | 2187.5 | 3656.7 | 6914.7 | 11173.0 | 14214.0 | 14636.1 | 14144.1 | 14118.4 |
| 72.5° | 1044.8 | 1037.8 | 1061.1 | 1208.0 | 1784.1 | 3491.2 | 7707.5 | 12423.0 | 14454.3 | 14095.1 | 14022.8 |
| 75° | 876.9 | 872.2 | 867.6 | 886.2 | 1000.4 | 1581.2 | 4090.5 | 8936.5 | 12541.9 | 13230.0 | 13155.3 |
| 77.5° | 716.0 | 716.0 | 718.2 | 713.6 | 718.2 | 832.6 | 1695.4 | 4790.1 | 7637.6 | 8526.1 | 8733.7 |
| 80° | 559.7 | 557.3 | 597.0 | 580.7 | 543.4 | 534.1 | 750.9 | 1541.5 | 2535.0 | 2521.0 | 2080.2 |
| 82.5° | 412.8 | 384.8 | 454.8 | 443.1 | 401.1 | 340.4 | 438.4 | 657.6 | 846.6 | 550.4 | 408.1 |
| 85° | 261.2 | 258.9 | 321.8 | 293.9 | 244.8 | 160.9 | 209.9 | 282.2 | 349.8 | 212.2 | 172.6 |
| 87.5° | 46.7 | 44.3 | 102.6 | 74.6 | 74.6 | 46.7 | 58.3 | 77.0 | 114.2 | 79.3 | 58.3 |
| 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)