

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: P533400

Luminaire Tested: **GALN-SA8D-750-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533400
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-SA8D-750-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1200mA 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: 52996 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

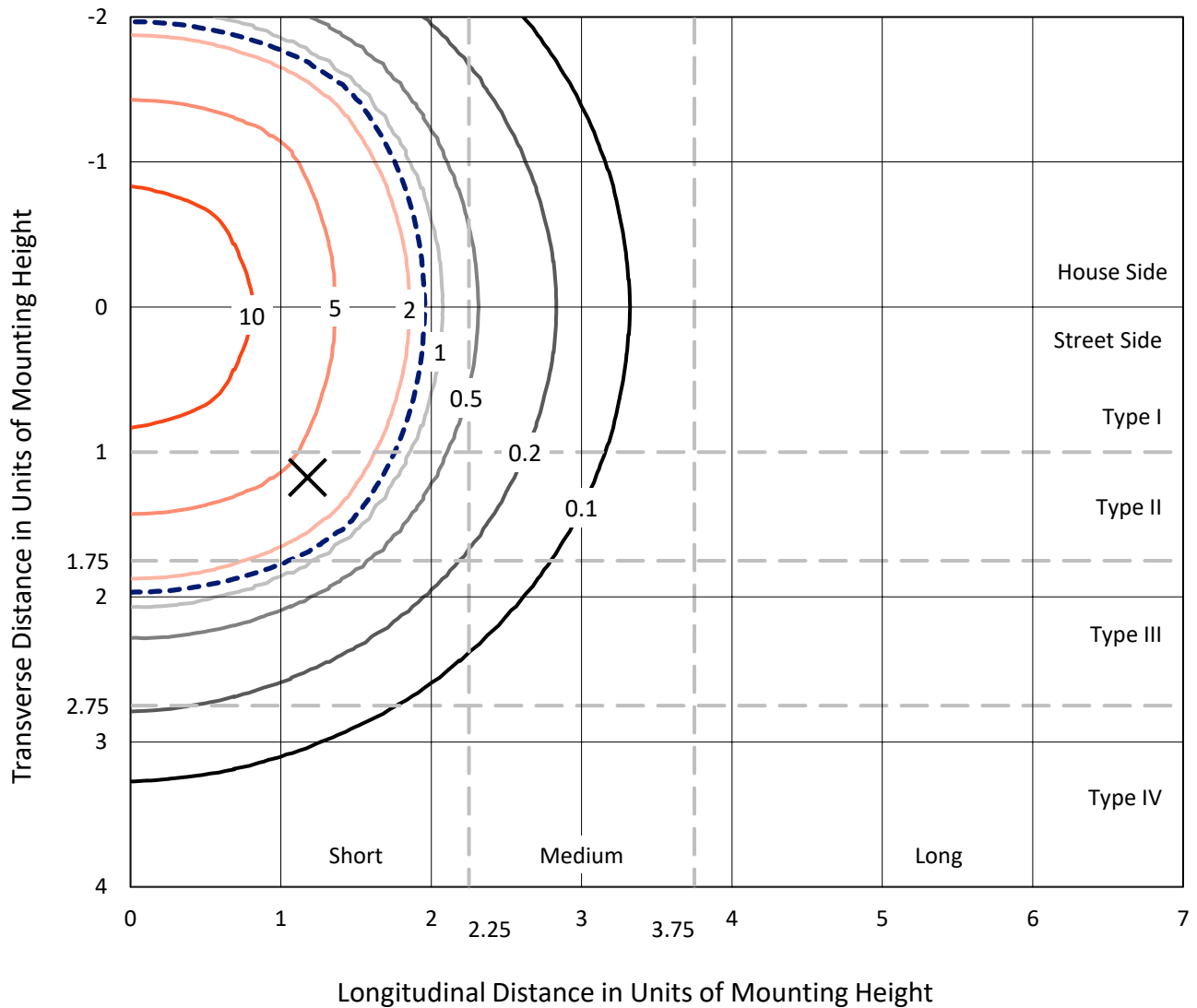
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

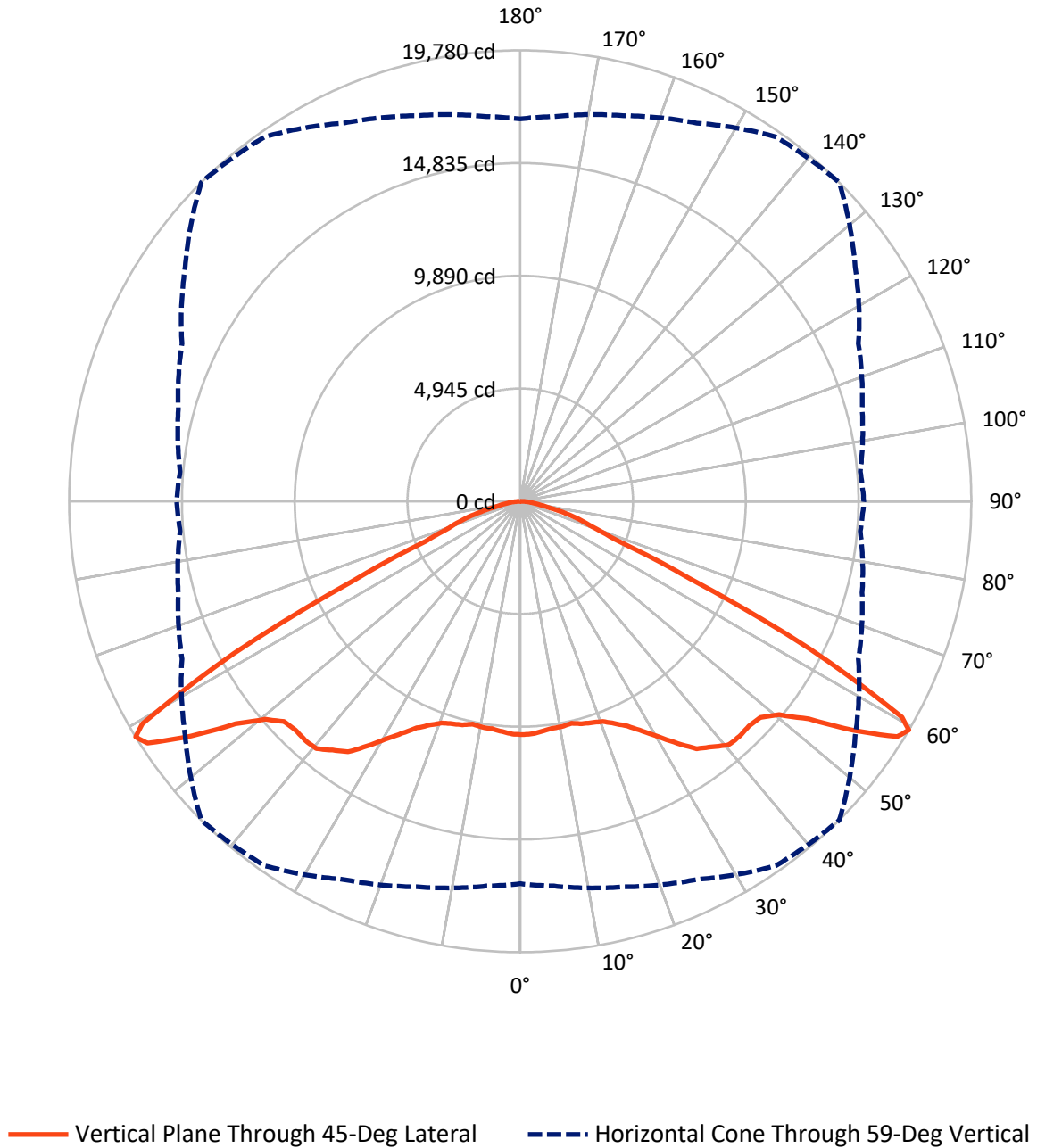
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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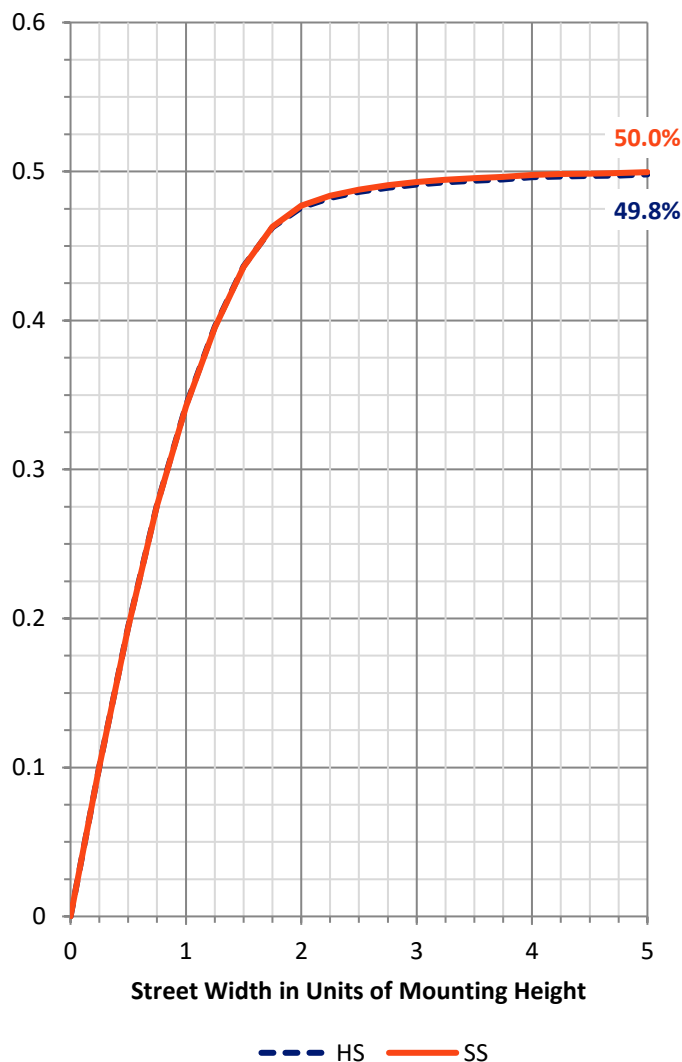
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 26498.0 | 0.0 | 26498.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 26498.0 | 0.0 | 26498.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 52996.0 | 0.0 | 52996.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 965.0 | 1.8 |
| 10°-20° | 2869.6 | 5.4 |
| 20°-30° | 5010.7 | 9.5 |
| 30°-40° | 8002.7 | 15.1 |
| 40°-50° | 10901.3 | 20.6 |
| 50°-60° | 14741.5 | 27.8 |
| 60°-70° | 8084.3 | 15.3 |
| 70°-80° | 2068.2 | 3.9 |
| 80°-90° | 352.7 | 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° | 52996.0 | 100.0 |
| 0°-180° | 52996.0 | 100.0 |

Coefficient of Utilization

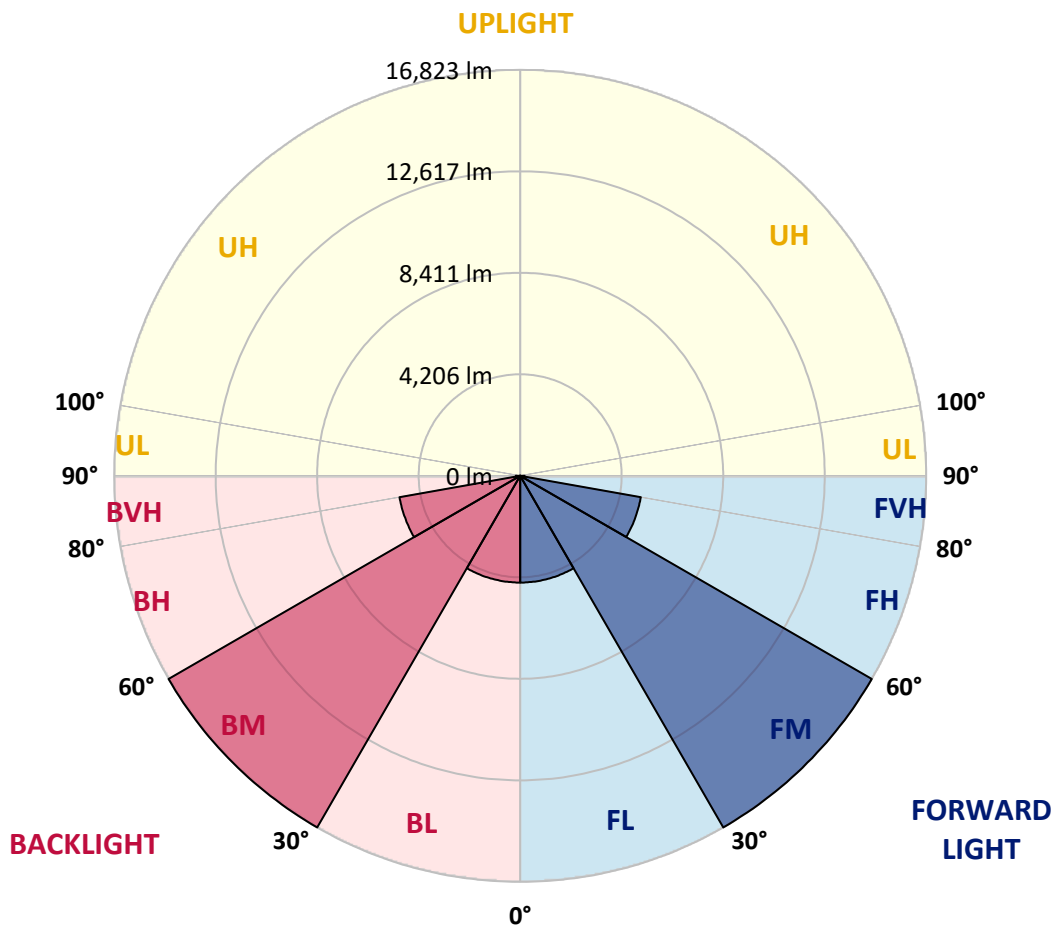


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4422.6 | 8.3 | | | |
| FM (30°-60°) | 16822.8 | 31.7 | | | |
| FH (60°-80°) | 5076.2 | 9.6 | | | G3/7500 |
| FVH (80°-90°) | 176.4 | 0.3 | | | G2/225 |
| BL (0°-30°) | 4422.6 | 8.3 | B4/5000 | | |
| BM (30°-60°) | 16822.8 | 31.7 | B5 | | |
| BH (60°-80°) | 5076.2 | 9.6 | B5 | | G3/7500 |
| BVH (80°-90°) | 176.4 | 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-G3
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 10236.3 | 10236.3 | 10236.3 | 10236.3 | 10236.3 | 10236.3 | 10236.3 | 10236.3 | 10236.3 | 10236.3 | 10236.3 |
| 2.5° | 10175.2 | 10249.9 | 10195.5 | 10243.1 | 10236.3 | 10215.9 | 10182.0 | 10161.6 | 10134.4 | 10175.2 | 10107.2 |
| 5° | 10134.4 | 10195.5 | 10256.7 | 10175.2 | 10175.2 | 10134.4 | 10114.0 | 10073.3 | 10073.3 | 10066.5 | 10059.7 |
| 7.5° | 10202.3 | 10141.2 | 10114.0 | 10127.6 | 10141.2 | 10052.9 | 10114.0 | 10032.5 | 9964.6 | 10012.1 | 10066.5 |
| 10° | 10141.2 | 10168.4 | 10066.5 | 10114.0 | 10039.3 | 10052.9 | 10012.1 | 10066.5 | 9991.8 | 9991.8 | 9991.8 |
| 12.5° | 10202.3 | 10127.6 | 10161.6 | 10127.6 | 10107.2 | 9991.8 | 10046.1 | 9985.0 | 9978.2 | 10046.1 | 9985.0 |
| 15° | 10324.6 | 10202.3 | 10175.2 | 10107.2 | 10127.6 | 10127.6 | 10073.3 | 10080.1 | 10005.3 | 10046.1 | 10059.7 |
| 17.5° | 10283.8 | 10215.9 | 10195.5 | 10114.0 | 10182.0 | 10202.3 | 10100.4 | 10032.5 | 10080.1 | 10073.3 | 10066.5 |
| 20° | 10317.8 | 10345.0 | 10324.6 | 10338.2 | 10365.4 | 10311.0 | 10215.9 | 10120.8 | 10059.7 | 10148.0 | 10141.2 |
| 22.5° | 10535.2 | 10508.0 | 10494.4 | 10480.8 | 10528.4 | 10582.7 | 10453.7 | 10304.2 | 10304.2 | 10365.4 | 10392.5 |
| 25° | 10711.8 | 10705.0 | 10698.2 | 10759.3 | 10922.3 | 10922.3 | 10759.3 | 10569.1 | 10521.6 | 10562.3 | 10528.4 |
| 27.5° | 10969.9 | 11044.6 | 11017.4 | 11126.1 | 11363.8 | 11418.2 | 11200.8 | 10976.7 | 10847.6 | 10800.1 | 10861.2 |
| 30° | 11560.8 | 11472.5 | 11492.9 | 11608.4 | 11818.9 | 11995.5 | 11662.7 | 11425.0 | 11248.4 | 11241.6 | 11268.8 |
| 32.5° | 11954.8 | 12022.7 | 12083.9 | 12192.5 | 12525.4 | 12661.2 | 12260.5 | 11873.3 | 11764.6 | 11703.5 | 11723.8 |
| 35° | 12742.7 | 12681.6 | 12668.0 | 12776.7 | 13109.5 | 13333.7 | 12831.0 | 12491.4 | 12348.8 | 12484.6 | 12484.6 |
| 37.5° | 13489.9 | 13320.1 | 13191.0 | 13333.7 | 13639.3 | 13666.5 | 13238.6 | 13055.2 | 12980.5 | 13136.7 | 13129.9 |
| 40° | 13843.1 | 13829.5 | 13530.7 | 13612.2 | 14019.7 | 14060.5 | 13659.7 | 13442.4 | 13428.8 | 13632.5 | 13836.3 |
| 42.5° | 14209.9 | 14080.8 | 13782.0 | 13836.3 | 14087.6 | 14101.2 | 13720.8 | 13659.7 | 13809.1 | 14006.1 | 14019.7 |
| 45° | 14271.0 | 14162.4 | 13972.2 | 13836.3 | 14019.7 | 14060.5 | 13836.3 | 13877.1 | 13890.7 | 14128.4 | 14128.4 |
| 47.5° | 14393.3 | 14379.7 | 14271.0 | 14169.1 | 14203.1 | 14169.1 | 14026.5 | 14087.6 | 14291.4 | 14406.9 | 14352.5 |
| 50° | 14732.9 | 14590.3 | 14699.0 | 14610.7 | 14617.5 | 14712.5 | 14583.5 | 14644.6 | 14603.9 | 14502.0 | 14434.1 |
| 52.5° | 15480.1 | 15412.2 | 15507.3 | 15568.4 | 15636.3 | 15853.7 | 15704.3 | 15378.2 | 15072.6 | 14800.9 | 14794.1 |
| 55° | 16573.7 | 16621.2 | 16804.6 | 17117.1 | 17382.0 | 17728.4 | 17008.4 | 16227.3 | 15738.2 | 15310.3 | 15337.5 |
| 57.5° | 17606.2 | 17572.2 | 17823.5 | 18536.7 | 19311.1 | 19487.7 | 18074.8 | 16960.9 | 16166.1 | 15894.4 | 15779.0 |
| 59° | 16777.5 | 16940.5 | 17511.1 | 18305.8 | 19521.6 | 19779.8 | 17932.2 | 16363.1 | 15520.9 | 14970.7 | 15065.8 |
| 60° | 15473.3 | 15534.4 | 16043.9 | 17151.1 | 18794.8 | 19236.4 | 16974.4 | 15439.3 | 14318.6 | 13999.3 | 14142.0 |
| 62.5° | 10935.9 | 10888.4 | 11255.2 | 12158.6 | 13632.5 | 14230.3 | 12620.5 | 11540.5 | 10834.0 | 10480.8 | 10562.3 |
| 65° | 5814.4 | 6031.7 | 6181.2 | 6744.9 | 7526.1 | 8157.8 | 7492.1 | 7023.4 | 6629.5 | 6337.4 | 6330.6 |
| 67.5° | 3926.1 | 3898.9 | 3932.9 | 4061.9 | 4326.8 | 4503.4 | 4489.8 | 4252.1 | 4218.1 | 4163.8 | 4224.9 |
| 70° | 3307.9 | 3294.4 | 3233.2 | 3233.2 | 3287.6 | 3328.3 | 3375.9 | 3403.0 | 3457.4 | 3525.3 | 3518.5 |
| 72.5° | 2683.0 | 2649.1 | 2608.3 | 2587.9 | 2655.9 | 2676.2 | 2737.4 | 2764.5 | 2812.1 | 2805.3 | 2866.4 |
| 75° | 1772.8 | 1772.8 | 1820.4 | 1874.7 | 1895.1 | 1935.9 | 1942.7 | 2024.2 | 2024.2 | 2037.7 | 1983.4 |
| 77.5° | 991.7 | 964.5 | 998.5 | 1052.8 | 1100.4 | 1175.1 | 1249.8 | 1311.0 | 1344.9 | 1331.3 | 1331.3 |
| 80° | 577.4 | 577.4 | 611.3 | 672.5 | 733.6 | 801.5 | 855.9 | 903.4 | 937.4 | 923.8 | 896.6 |
| 82.5° | 360.0 | 360.0 | 394.0 | 455.1 | 502.6 | 543.4 | 618.1 | 679.2 | 720.0 | 706.4 | 672.5 |
| 85° | 183.4 | 183.4 | 224.2 | 264.9 | 326.0 | 353.2 | 346.4 | 319.2 | 312.5 | 278.5 | 278.5 |
| 87.5° | 47.5 | 47.5 | 67.9 | 74.7 | 61.1 | 67.9 | 67.9 | 67.9 | 67.9 | 67.9 | 74.7 |
| 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)