

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: P533793

Luminaire Tested: **GALN-SA9B-730-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-730-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30360 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

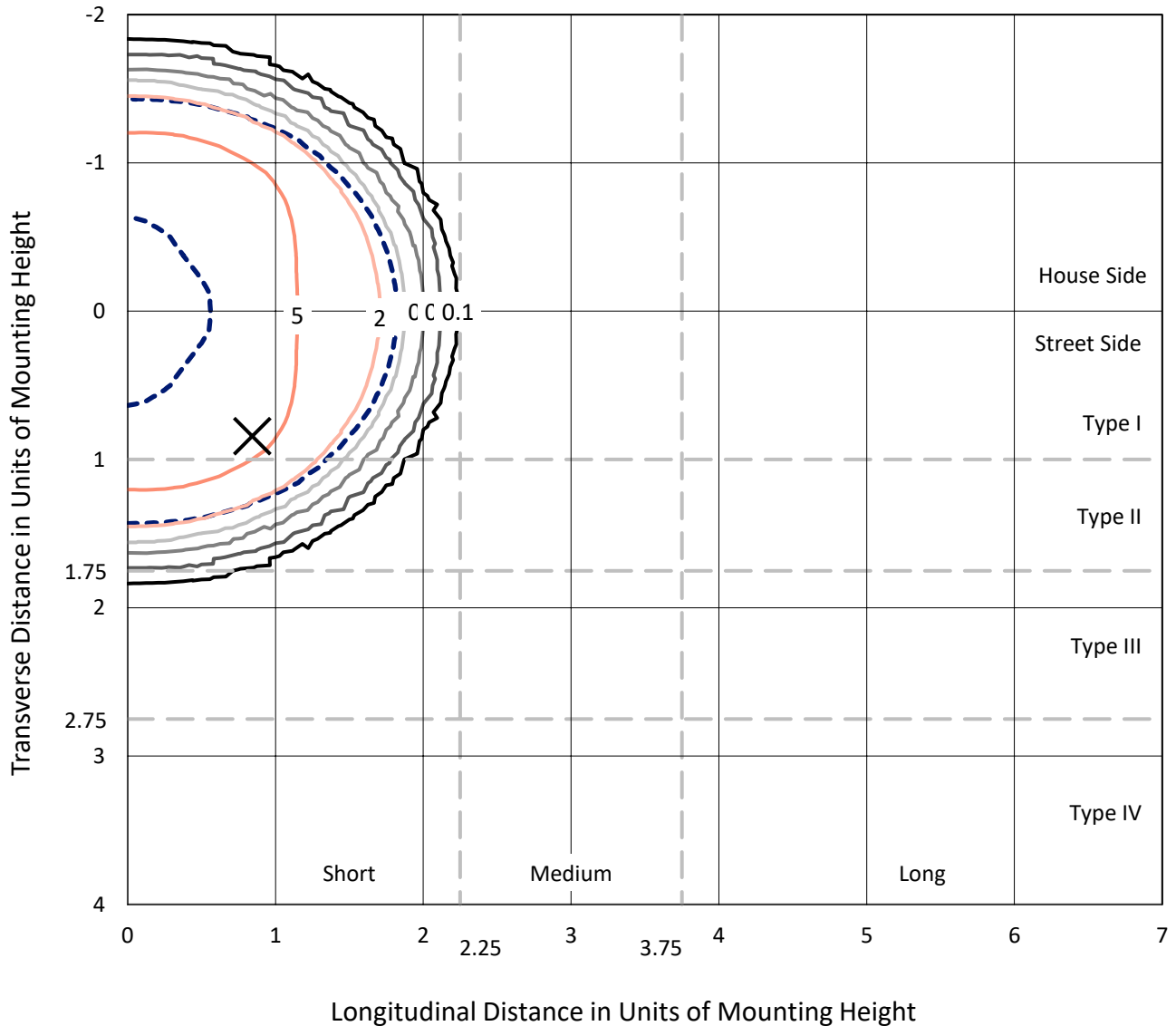
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

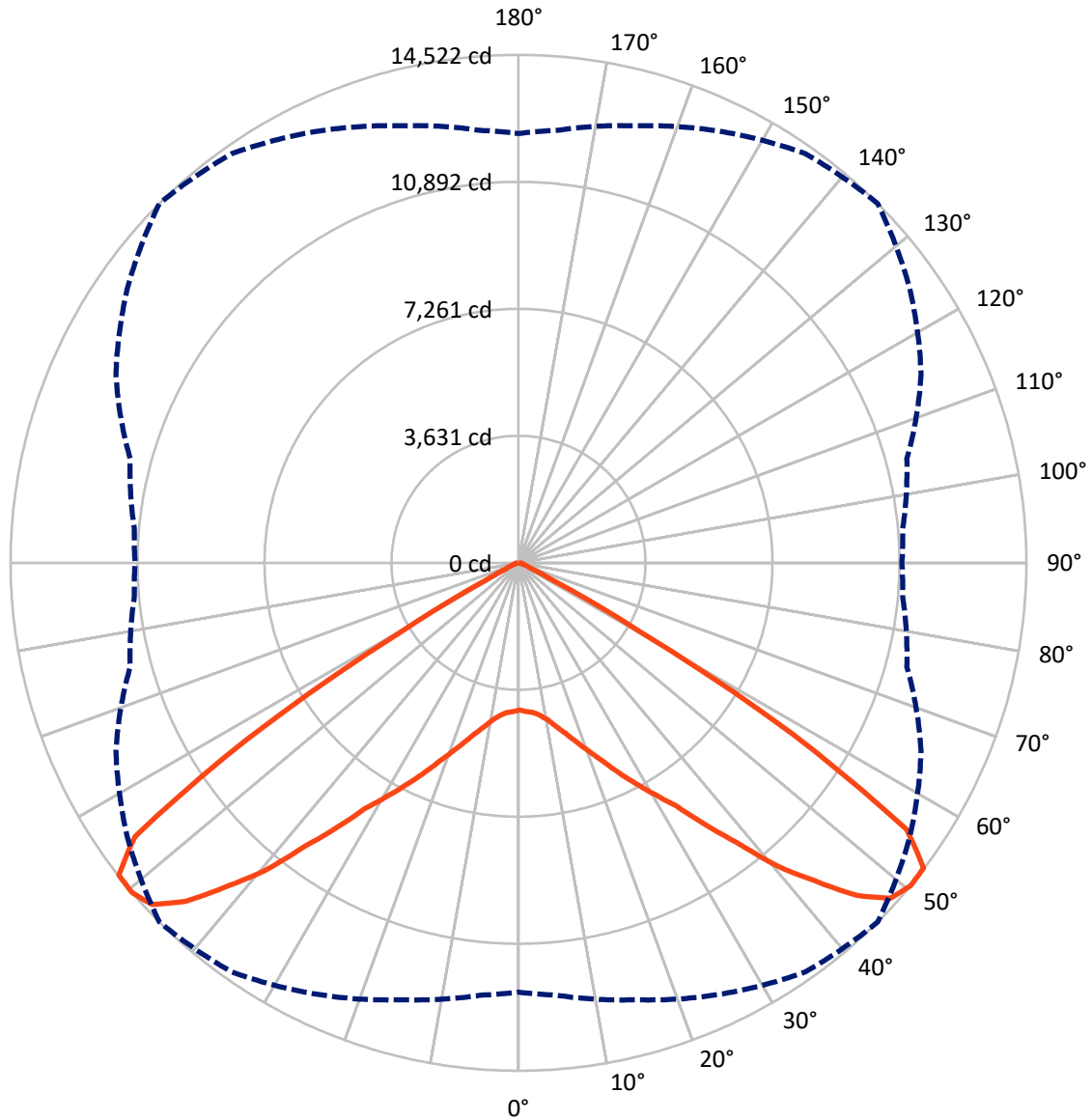
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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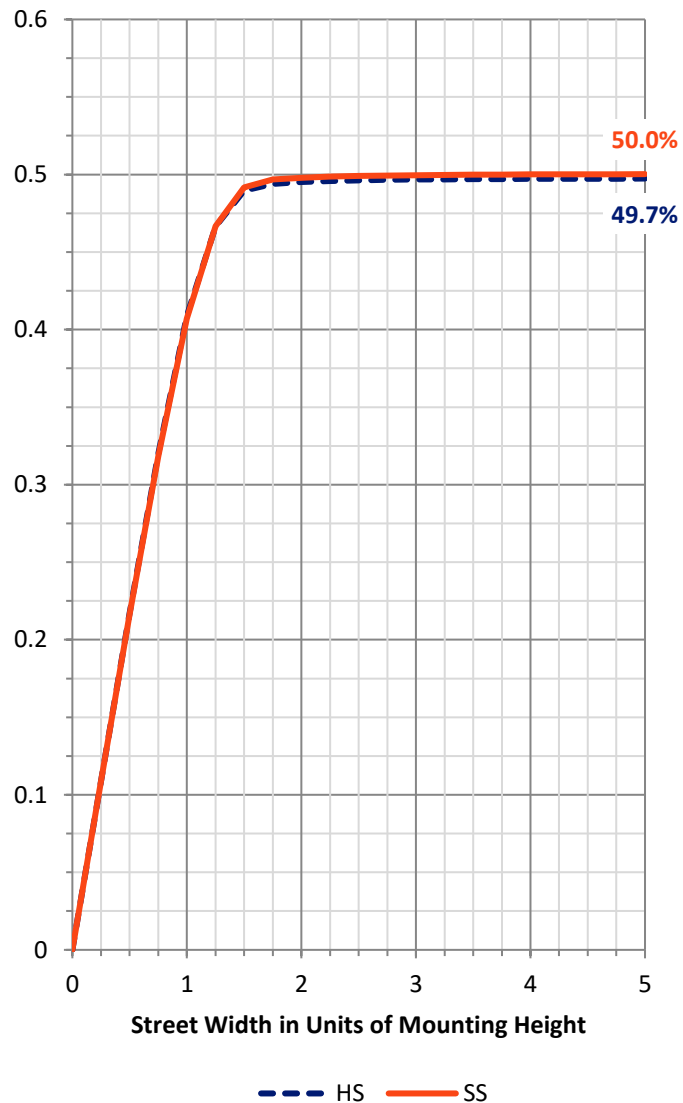
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 15180.0 | 0.0 | 15180.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 15180.0 | 0.0 | 15180.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 30360.0 | 0.0 | 30360.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 418.7 | 1.4 |
| 10°-20° | 1443.2 | 4.8 |
| 20°-30° | 2947.6 | 9.7 |
| 30°-40° | 5621.1 | 18.5 |
| 40°-50° | 9472.4 | 31.2 |
| 50°-60° | 9033.6 | 29.8 |
| 60°-70° | 1261.0 | 4.2 |
| 70°-80° | 120.6 | 0.4 |
| 80°-90° | 41.7 | 0.1 |
| 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° | 30360.0 | 100.0 |
| 0°-180° | 30360.0 | 100.0 |

Coefficient of Utilization



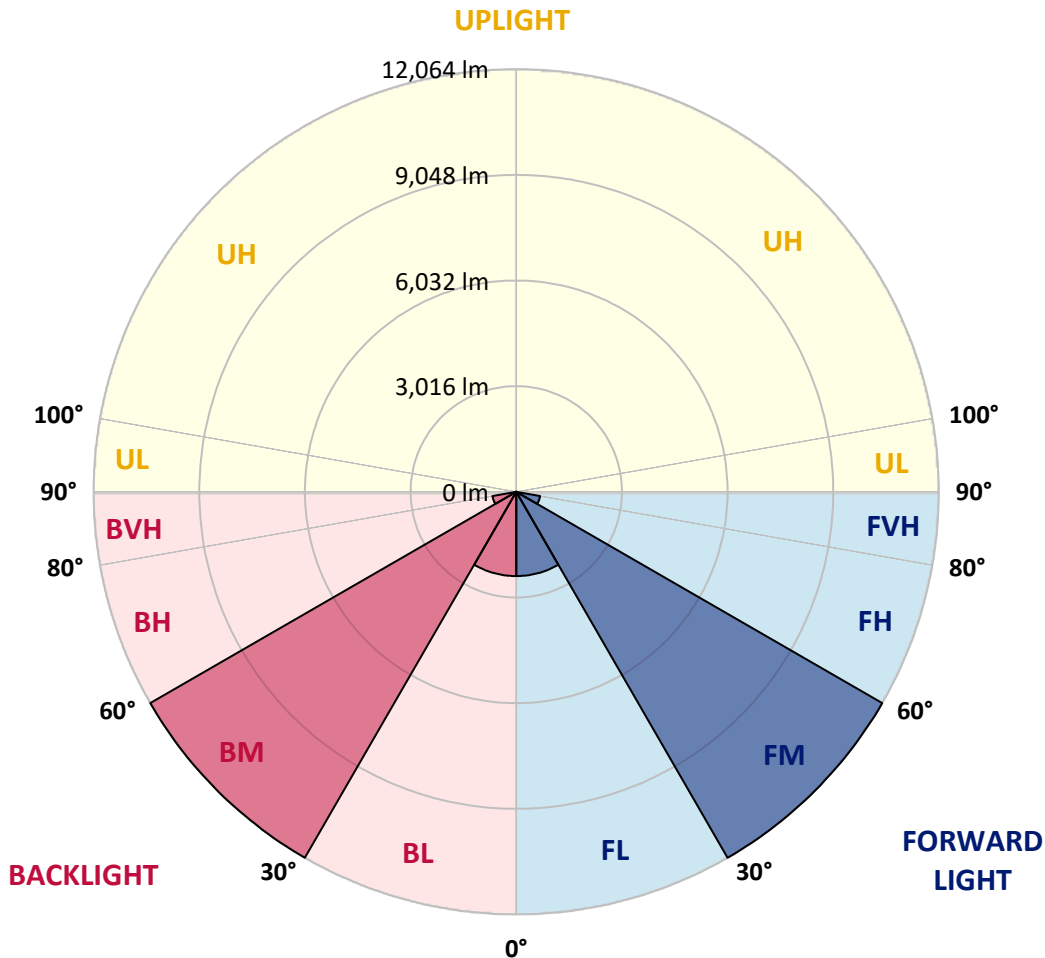
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2404.8 | 7.9 | | | |
| FM (30°-60°) | 12063.6 | 39.7 | | | |
| FH (60°-80°) | 690.8 | 2.3 | | | G1/1800 |
| FVH (80°-90°) | 20.8 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2404.8 | 7.9 | B3/2500 | | |
| BM (30°-60°) | 12063.6 | 39.7 | B5 | | |
| BH (60°-80°) | 690.8 | 2.3 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 20.8 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4209.1 | 4209.1 | 4209.1 | 4209.1 | 4209.1 | 4209.1 | 4209.1 | 4209.1 | 4209.1 | 4209.1 | 4209.1 |
| 2.5° | 4193.8 | 4193.8 | 4188.6 | 4229.5 | 4209.1 | 4255.1 | 4249.9 | 4265.3 | 4280.6 | 4275.5 | 4316.4 |
| 5° | 4158.0 | 4152.9 | 4152.9 | 4198.9 | 4244.8 | 4295.9 | 4341.9 | 4372.5 | 4423.6 | 4423.6 | 4474.7 |
| 7.5° | 4193.8 | 4168.2 | 4204.0 | 4224.4 | 4311.2 | 4398.1 | 4474.7 | 4536.0 | 4653.5 | 4694.4 | 4679.0 |
| 10° | 4204.0 | 4234.6 | 4260.2 | 4321.5 | 4428.7 | 4561.5 | 4627.9 | 4781.2 | 4914.0 | 5005.9 | 5026.4 |
| 12.5° | 4270.4 | 4316.4 | 4387.9 | 4536.0 | 4633.1 | 4806.7 | 4898.7 | 5046.8 | 5230.7 | 5332.9 | 5404.4 |
| 15° | 4398.1 | 4413.4 | 4505.4 | 4694.4 | 4903.8 | 5062.1 | 5205.2 | 5312.4 | 5491.2 | 5608.7 | 5613.8 |
| 17.5° | 4561.5 | 4627.9 | 4755.6 | 4934.4 | 5154.1 | 5389.1 | 5501.4 | 5618.9 | 5685.3 | 5843.7 | 5879.4 |
| 20° | 4888.5 | 4898.7 | 5021.3 | 5256.2 | 5532.1 | 5746.6 | 5828.3 | 5889.6 | 5864.1 | 6027.6 | 6058.2 |
| 22.5° | 5194.9 | 5205.2 | 5358.4 | 5675.1 | 5971.4 | 6155.3 | 6191.0 | 6155.3 | 6078.6 | 6196.1 | 6206.3 |
| 25° | 5506.5 | 5598.5 | 5710.9 | 6027.6 | 6395.3 | 6640.5 | 6645.6 | 6548.6 | 6390.2 | 6410.7 | 6461.8 |
| 27.5° | 5991.8 | 6058.2 | 6175.7 | 6466.9 | 6870.4 | 7146.2 | 7100.3 | 6982.8 | 6778.5 | 6793.8 | 6778.5 |
| 30° | 6558.8 | 6620.1 | 6717.2 | 7090.1 | 7386.3 | 7687.7 | 7754.1 | 7641.7 | 7335.2 | 7268.8 | 7345.5 |
| 32.5° | 7243.3 | 7330.1 | 7508.9 | 7851.2 | 8101.5 | 8285.3 | 8331.3 | 8290.5 | 8004.4 | 7978.9 | 8029.9 |
| 35° | 8075.9 | 8193.4 | 8356.9 | 8658.2 | 8862.6 | 9194.6 | 9194.6 | 9056.7 | 8796.2 | 8826.8 | 8821.7 |
| 37.5° | 8954.5 | 9128.2 | 9383.6 | 9690.1 | 9965.9 | 10144.7 | 10088.5 | 9971.0 | 9710.5 | 9644.1 | 9710.5 |
| 40° | 10057.9 | 10144.7 | 10466.5 | 10864.9 | 11202.1 | 11406.4 | 11166.3 | 10910.9 | 10287.7 | 10384.8 | 10563.6 |
| 42.5° | 11064.2 | 11202.1 | 11447.3 | 11886.6 | 12269.7 | 12438.2 | 12152.2 | 11646.5 | 10895.6 | 10819.0 | 10951.8 |
| 45° | 11922.3 | 12070.5 | 12392.3 | 13020.6 | 13424.1 | 13572.2 | 12938.8 | 12121.5 | 11263.4 | 11069.3 | 11125.5 |
| 47.5° | 12494.4 | 12571.1 | 13020.6 | 13618.2 | 13986.0 | 14323.1 | 13413.9 | 12448.5 | 11437.1 | 11069.3 | 11048.8 |
| 50° | 12274.8 | 12407.6 | 12933.7 | 13613.1 | 14282.3 | 14522.3 | 13654.0 | 12698.8 | 11493.2 | 11023.3 | 10962.0 |
| 52.5° | 10900.7 | 11130.6 | 11718.0 | 12632.3 | 13643.8 | 14501.9 | 13986.0 | 12617.0 | 11472.8 | 11069.3 | 11161.2 |
| 55° | 7585.5 | 7590.6 | 8305.8 | 9654.3 | 11442.2 | 13465.0 | 13500.7 | 12709.0 | 11605.6 | 11355.3 | 11360.4 |
| 57.5° | 3049.5 | 3202.8 | 3749.4 | 5103.0 | 6752.9 | 9245.7 | 10992.6 | 11789.5 | 11620.9 | 11559.6 | 11718.0 |
| 60° | 771.3 | 776.4 | 945.0 | 1440.5 | 2375.3 | 3963.9 | 5756.8 | 7789.9 | 8969.8 | 9373.4 | 9429.6 |
| 62.5° | 393.3 | 398.4 | 439.3 | 510.8 | 648.7 | 1062.5 | 1890.0 | 2998.5 | 4265.3 | 4908.9 | 5077.5 |
| 65° | 321.8 | 321.8 | 347.4 | 383.1 | 388.2 | 408.6 | 490.4 | 699.8 | 1016.5 | 1154.4 | 1169.8 |
| 67.5° | 245.2 | 245.2 | 265.6 | 286.1 | 296.3 | 291.2 | 280.9 | 291.2 | 352.5 | 337.1 | 326.9 |
| 70° | 153.2 | 158.4 | 168.6 | 189.0 | 199.2 | 204.3 | 209.4 | 219.6 | 250.3 | 260.5 | 250.3 |
| 72.5° | 91.9 | 91.9 | 97.1 | 112.4 | 127.7 | 137.9 | 153.2 | 163.5 | 178.8 | 204.3 | 199.2 |
| 75° | 40.9 | 40.9 | 51.1 | 66.4 | 81.7 | 97.1 | 112.4 | 127.7 | 137.9 | 153.2 | 158.4 |
| 77.5° | 10.2 | 15.3 | 25.5 | 46.0 | 61.3 | 81.7 | 102.2 | 117.5 | 127.7 | 127.7 | 122.6 |
| 80° | 5.1 | 5.1 | 20.4 | 35.8 | 66.4 | 86.8 | 112.4 | 122.6 | 137.9 | 127.7 | 112.4 |
| 82.5° | 5.1 | 5.1 | 20.4 | 35.8 | 61.3 | 86.8 | 117.5 | 132.8 | 143.0 | 127.7 | 107.3 |
| 85° | 0.0 | 5.1 | 15.3 | 30.6 | 51.1 | 61.3 | 51.1 | 35.8 | 20.4 | 20.4 | 15.3 |
| 87.5° | 0.0 | 0.0 | 5.1 | 5.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)