

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: P530017

Luminaire Tested: **GALN-SA5B-727-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-727-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16371 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

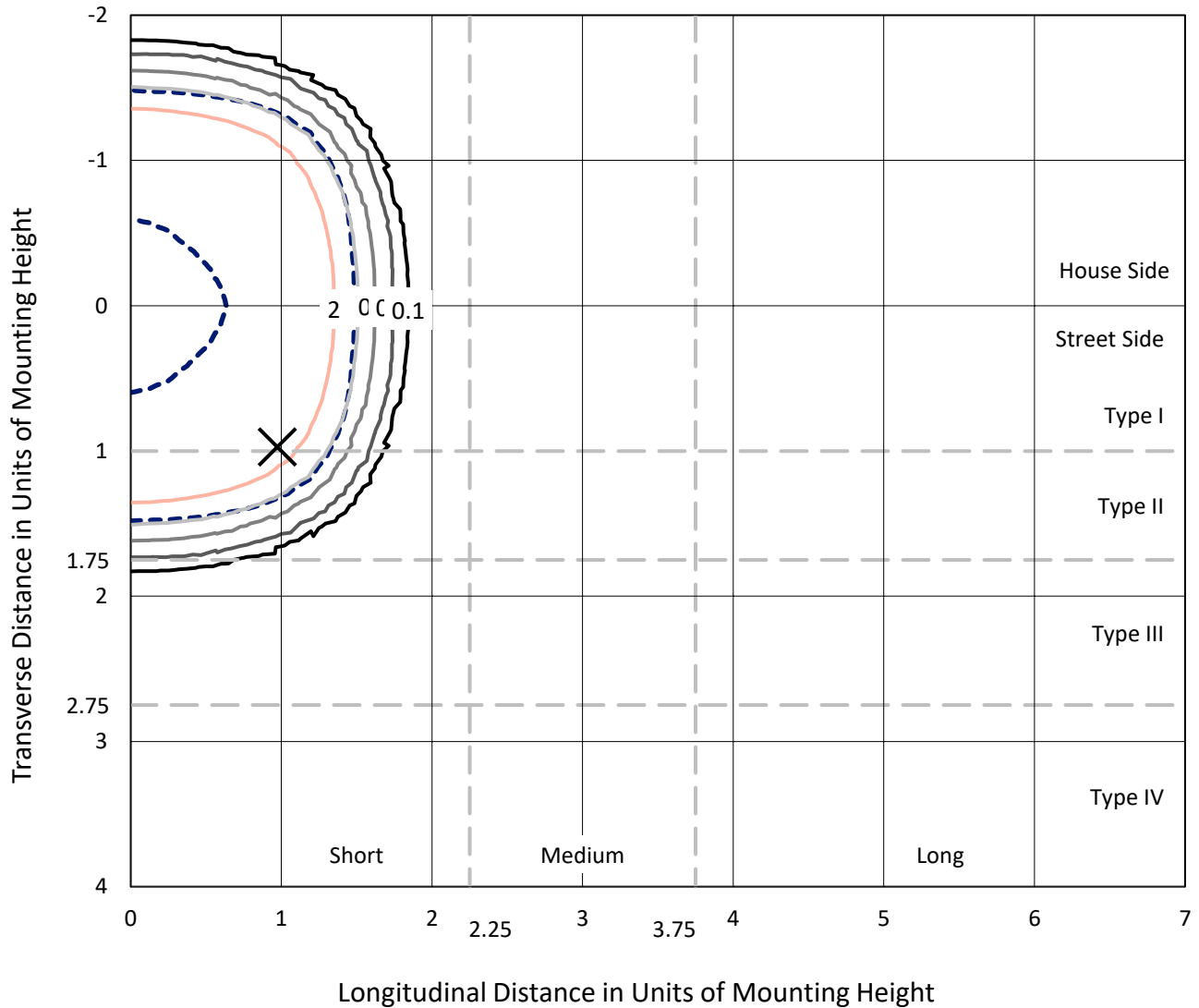
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

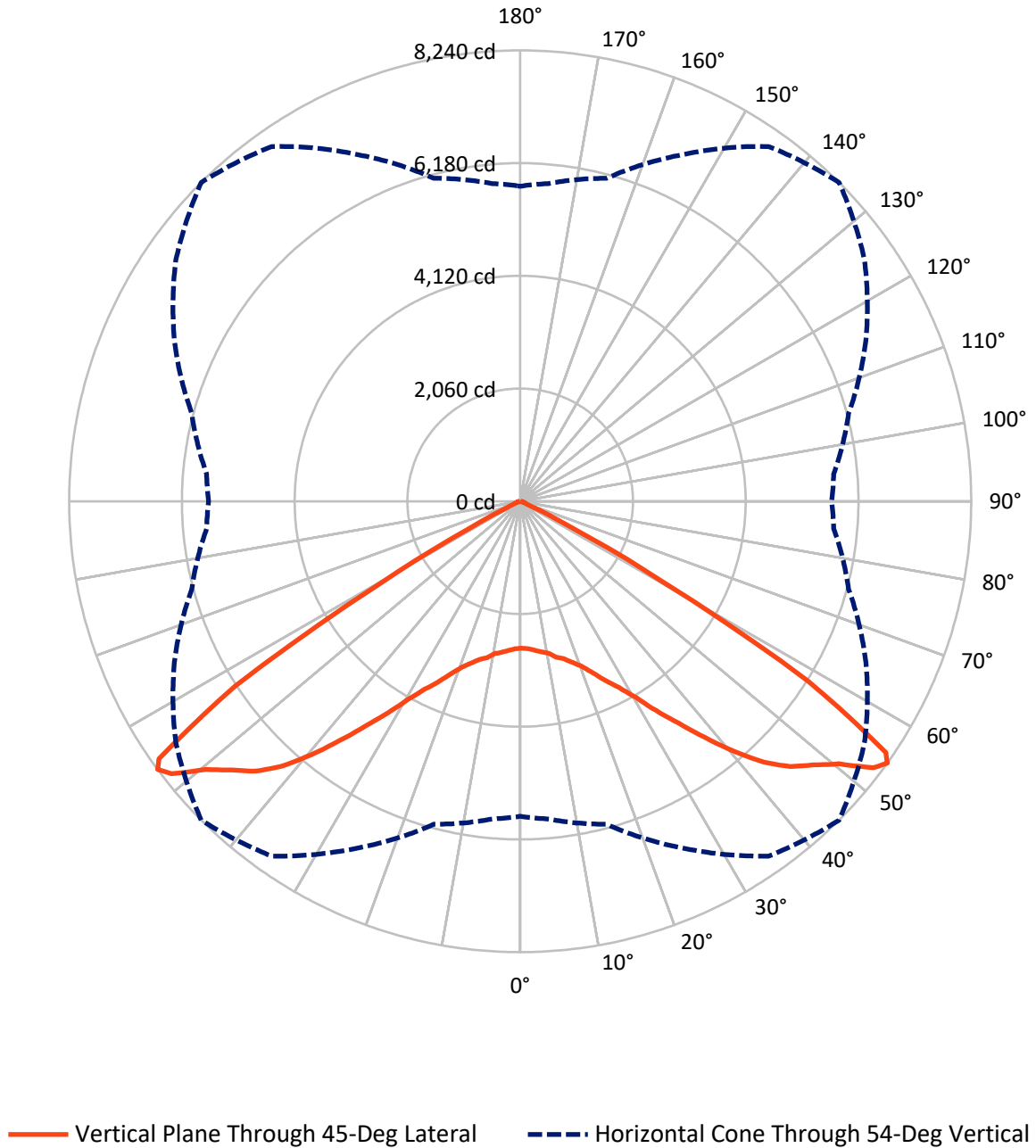
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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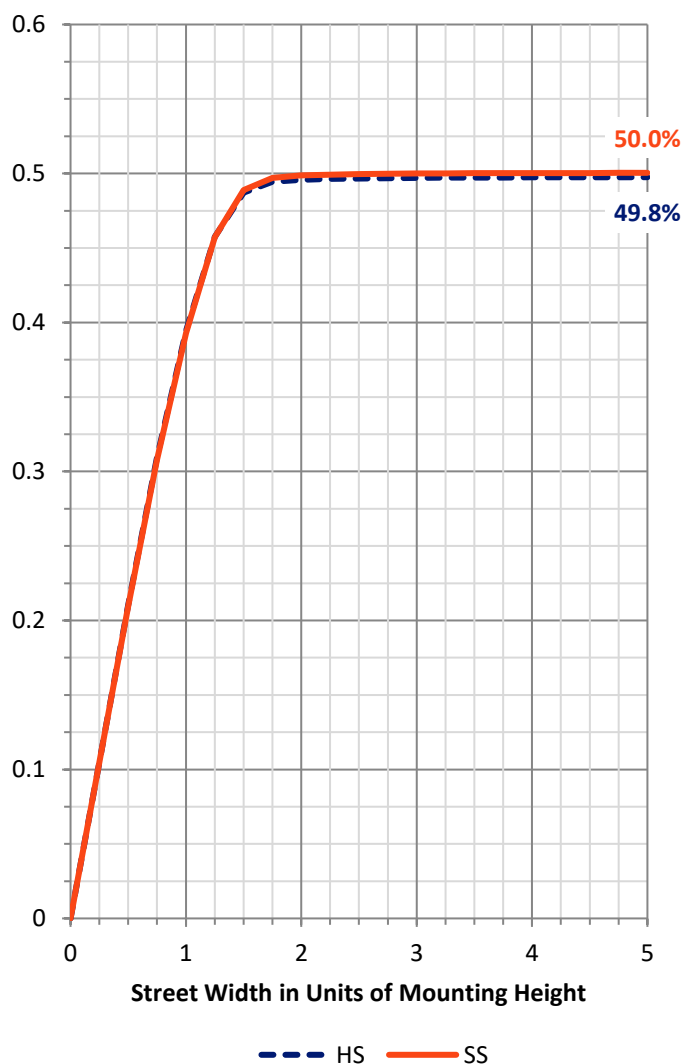
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8185.5 | 0.0 | 8185.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8185.5 | 0.0 | 8185.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 16371.0 | 0.0 | 16371.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 262.7 | 1.6 |
| 10°-20° | 850.8 | 5.2 |
| 20°-30° | 1667.6 | 10.2 |
| 30°-40° | 2998.6 | 18.3 |
| 40°-50° | 5133.1 | 31.4 |
| 50°-60° | 4966.8 | 30.3 |
| 60°-70° | 425.2 | 2.6 |
| 70°-80° | 50.4 | 0.3 |
| 80°-90° | 15.8 | 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° | 16371.0 | 100.0 |
| 0°-180° | 16371.0 | 100.0 |

Coefficient of Utilization



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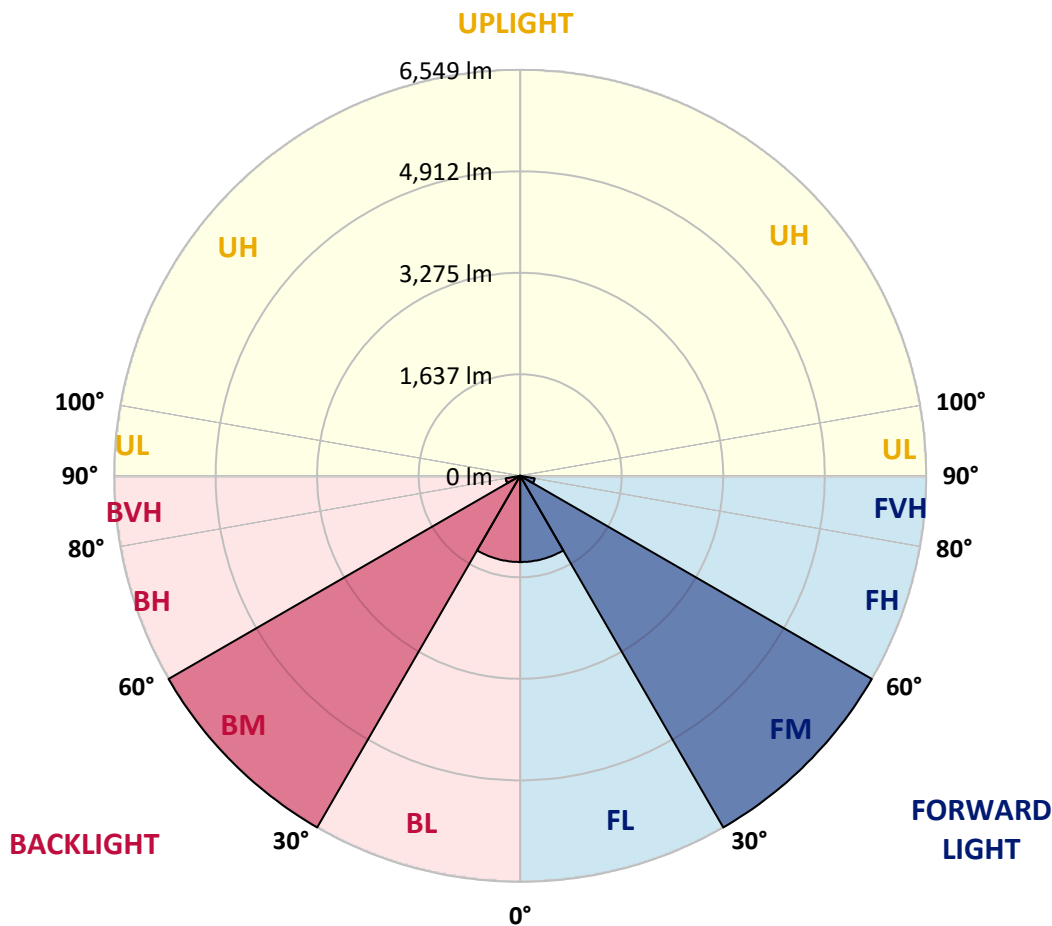
CATALOG NUMBER: GALN-SA5B-727-U-5NQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1390.6 | 8.5 | | | |
| FM (30°-60°) | 6549.2 | 40.0 | | | |
| FH (60°-80°) | 237.8 | 1.5 | | | G0/660 |
| FVH (80°-90°) | 7.9 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1390.6 | 8.5 | B3/2500 | | |
| BM (30°-60°) | 6549.2 | 40.0 | B4/8500 | | |
| BH (60°-80°) | 237.8 | 1.5 | B1/500 | | G0/660 |
| BVH (80°-90°) | 7.9 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2684.3 | 2684.3 | 2684.3 | 2684.3 | 2684.3 | 2684.3 | 2684.3 | 2684.3 | 2684.3 | 2684.3 | 2684.3 |
| 2.5° | 2697.3 | 2712.9 | 2702.5 | 2710.3 | 2710.3 | 2697.3 | 2705.1 | 2674.0 | 2694.7 | 2679.1 | 2681.7 |
| 5° | 2738.8 | 2736.2 | 2736.2 | 2738.8 | 2728.4 | 2733.6 | 2723.2 | 2712.9 | 2705.1 | 2694.7 | 2725.8 |
| 7.5° | 2790.7 | 2790.7 | 2772.5 | 2777.7 | 2772.5 | 2780.3 | 2759.5 | 2738.8 | 2731.0 | 2723.2 | 2718.1 |
| 10° | 2839.9 | 2834.8 | 2827.0 | 2850.3 | 2832.2 | 2821.8 | 2811.4 | 2798.5 | 2769.9 | 2759.5 | 2749.2 |
| 12.5° | 2912.6 | 2910.0 | 2899.6 | 2922.9 | 2912.6 | 2922.9 | 2884.0 | 2850.3 | 2845.1 | 2811.4 | 2829.6 |
| 15° | 2998.2 | 3021.5 | 3003.3 | 3003.3 | 2998.2 | 2985.2 | 2969.6 | 2954.1 | 2907.4 | 2894.4 | 2897.0 |
| 17.5° | 3109.7 | 3101.9 | 3104.5 | 3104.5 | 3130.4 | 3096.7 | 3065.6 | 3026.7 | 3003.3 | 2995.6 | 2969.6 |
| 20° | 3216.0 | 3226.4 | 3223.8 | 3241.9 | 3257.5 | 3221.2 | 3187.5 | 3182.3 | 3117.5 | 3127.8 | 3091.5 |
| 22.5° | 3402.7 | 3395.0 | 3407.9 | 3420.9 | 3410.5 | 3405.3 | 3374.2 | 3335.3 | 3278.3 | 3252.3 | 3247.1 |
| 25° | 3599.9 | 3586.9 | 3563.6 | 3594.7 | 3610.2 | 3633.6 | 3573.9 | 3553.2 | 3465.0 | 3426.1 | 3428.7 |
| 27.5° | 3768.4 | 3786.6 | 3812.5 | 3825.5 | 3864.4 | 3856.6 | 3815.1 | 3747.7 | 3680.3 | 3636.2 | 3607.6 |
| 30° | 3999.3 | 4009.6 | 4053.7 | 4071.9 | 4139.3 | 4157.5 | 4092.6 | 4014.8 | 3895.5 | 3838.5 | 3804.8 |
| 32.5° | 4211.9 | 4284.6 | 4282.0 | 4372.7 | 4481.7 | 4556.9 | 4440.2 | 4320.9 | 4201.6 | 4134.1 | 4074.5 |
| 35° | 4556.9 | 4543.9 | 4619.1 | 4715.1 | 4891.5 | 4977.0 | 4850.0 | 4712.5 | 4530.9 | 4422.0 | 4375.3 |
| 37.5° | 4878.5 | 4883.7 | 4984.8 | 5137.8 | 5340.1 | 5472.4 | 5360.9 | 5135.2 | 4948.5 | 4808.5 | 4743.6 |
| 40° | 5345.3 | 5355.7 | 5459.4 | 5633.2 | 5861.4 | 6004.1 | 5874.4 | 5646.2 | 5397.2 | 5288.3 | 5288.3 |
| 42.5° | 5892.6 | 5936.7 | 6004.1 | 6154.5 | 6359.4 | 6517.6 | 6400.9 | 6221.9 | 5970.4 | 5830.3 | 5851.1 |
| 45° | 6455.4 | 6476.1 | 6520.2 | 6743.3 | 6839.2 | 6917.0 | 6808.1 | 6725.1 | 6556.5 | 6385.3 | 6356.8 |
| 47.5° | 6981.9 | 6989.6 | 7119.3 | 7189.3 | 7264.6 | 7199.7 | 7269.7 | 7160.8 | 6971.5 | 6805.5 | 6771.8 |
| 50° | 7215.3 | 7202.3 | 7386.5 | 7599.1 | 7656.2 | 7542.1 | 7482.4 | 7409.8 | 7121.9 | 6922.2 | 6834.0 |
| 52.5° | 6535.8 | 6611.0 | 6953.3 | 7544.7 | 7990.8 | 8086.7 | 7739.2 | 7404.6 | 6867.7 | 6478.7 | 6419.1 |
| 54° | 5757.7 | 5827.7 | 6110.4 | 6987.0 | 7915.5 | 8239.7 | 7679.5 | 6968.9 | 6211.6 | 5749.9 | 5690.3 |
| 55° | 4987.4 | 4909.6 | 5423.1 | 6317.9 | 7562.8 | 8104.9 | 7443.5 | 6406.1 | 5539.8 | 5117.1 | 5034.1 |
| 57.5° | 2699.9 | 2712.9 | 3146.0 | 3991.5 | 5314.2 | 6214.2 | 5488.0 | 4333.8 | 3273.1 | 2798.5 | 2757.0 |
| 60° | 855.9 | 876.6 | 1066.0 | 1613.2 | 2539.1 | 3031.9 | 2598.7 | 1740.3 | 1203.4 | 964.8 | 925.9 |
| 62.5° | 267.1 | 277.5 | 303.4 | 451.3 | 695.1 | 993.3 | 778.1 | 466.8 | 347.5 | 319.0 | 324.2 |
| 65° | 163.4 | 163.4 | 166.0 | 176.4 | 207.5 | 241.2 | 233.4 | 204.9 | 197.1 | 191.9 | 189.3 |
| 67.5° | 106.3 | 103.7 | 108.9 | 116.7 | 121.9 | 124.5 | 132.3 | 140.1 | 137.5 | 132.3 | 132.3 |
| 70° | 64.8 | 62.2 | 67.4 | 77.8 | 80.4 | 85.6 | 93.4 | 103.7 | 101.1 | 96.0 | 98.6 |
| 72.5° | 36.3 | 36.3 | 38.9 | 46.7 | 54.5 | 59.7 | 67.4 | 75.2 | 77.8 | 75.2 | 75.2 |
| 75° | 13.0 | 15.6 | 20.7 | 28.5 | 33.7 | 41.5 | 49.3 | 57.1 | 64.8 | 59.7 | 57.1 |
| 77.5° | 5.2 | 5.2 | 10.4 | 18.2 | 25.9 | 33.7 | 46.7 | 54.5 | 59.7 | 54.5 | 49.3 |
| 80° | 2.6 | 2.6 | 7.8 | 15.6 | 23.3 | 31.1 | 38.9 | 46.7 | 49.3 | 44.1 | 38.9 |
| 82.5° | 2.6 | 2.6 | 7.8 | 15.6 | 23.3 | 28.5 | 41.5 | 46.7 | 51.9 | 46.7 | 38.9 |
| 85° | 0.0 | 2.6 | 7.8 | 15.6 | 20.7 | 23.3 | 23.3 | 15.6 | 13.0 | 7.8 | 7.8 |
| 87.5° | 0.0 | 0.0 | 2.6 | 0.0 | 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)