

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: P531109

Luminaire Tested: **GALN-SA6B-827-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531109
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-SA6B-827-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 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: 17040 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

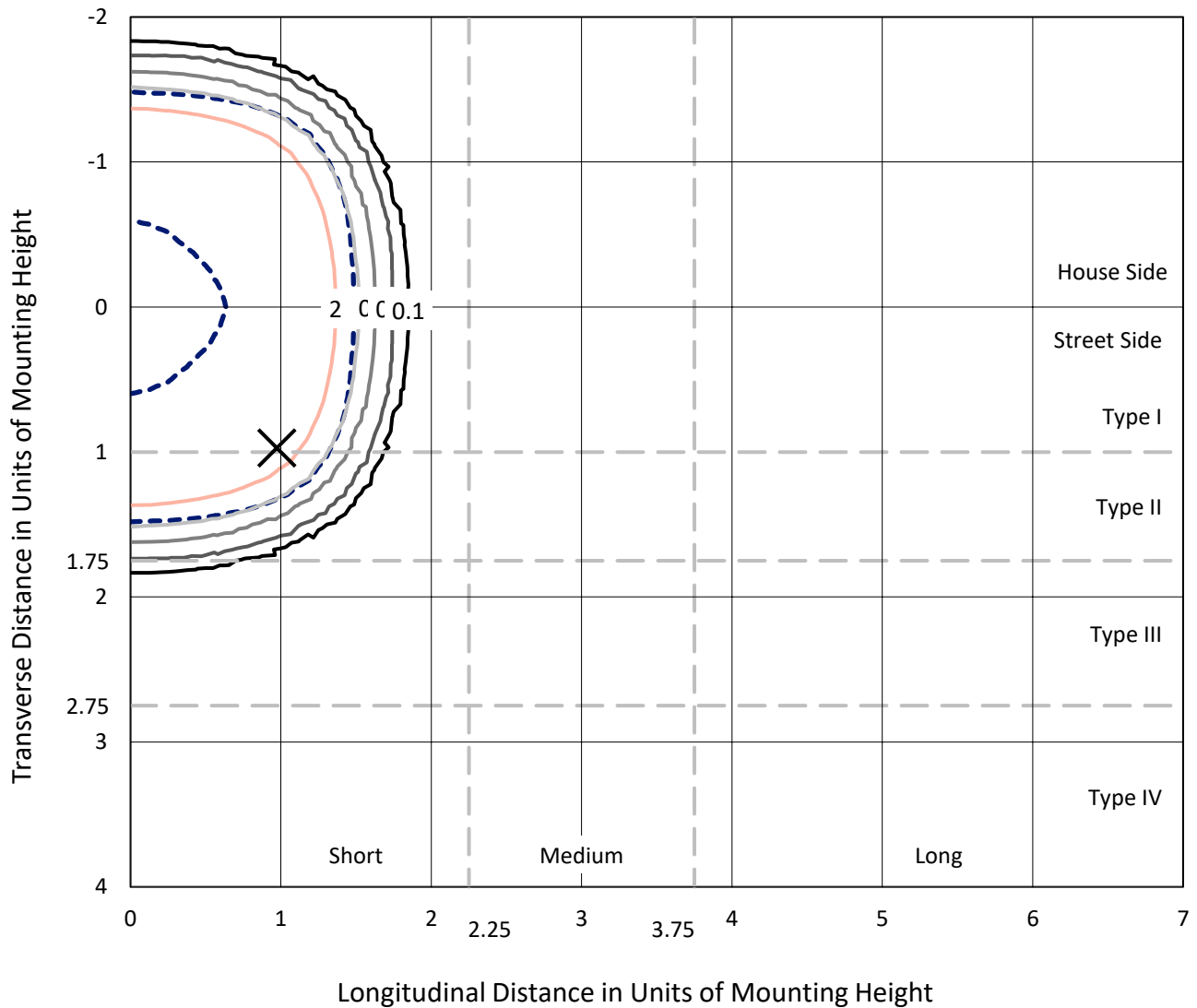
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531109
 CATALOG NUMBER: GALN-SA6B-827-U-5NQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

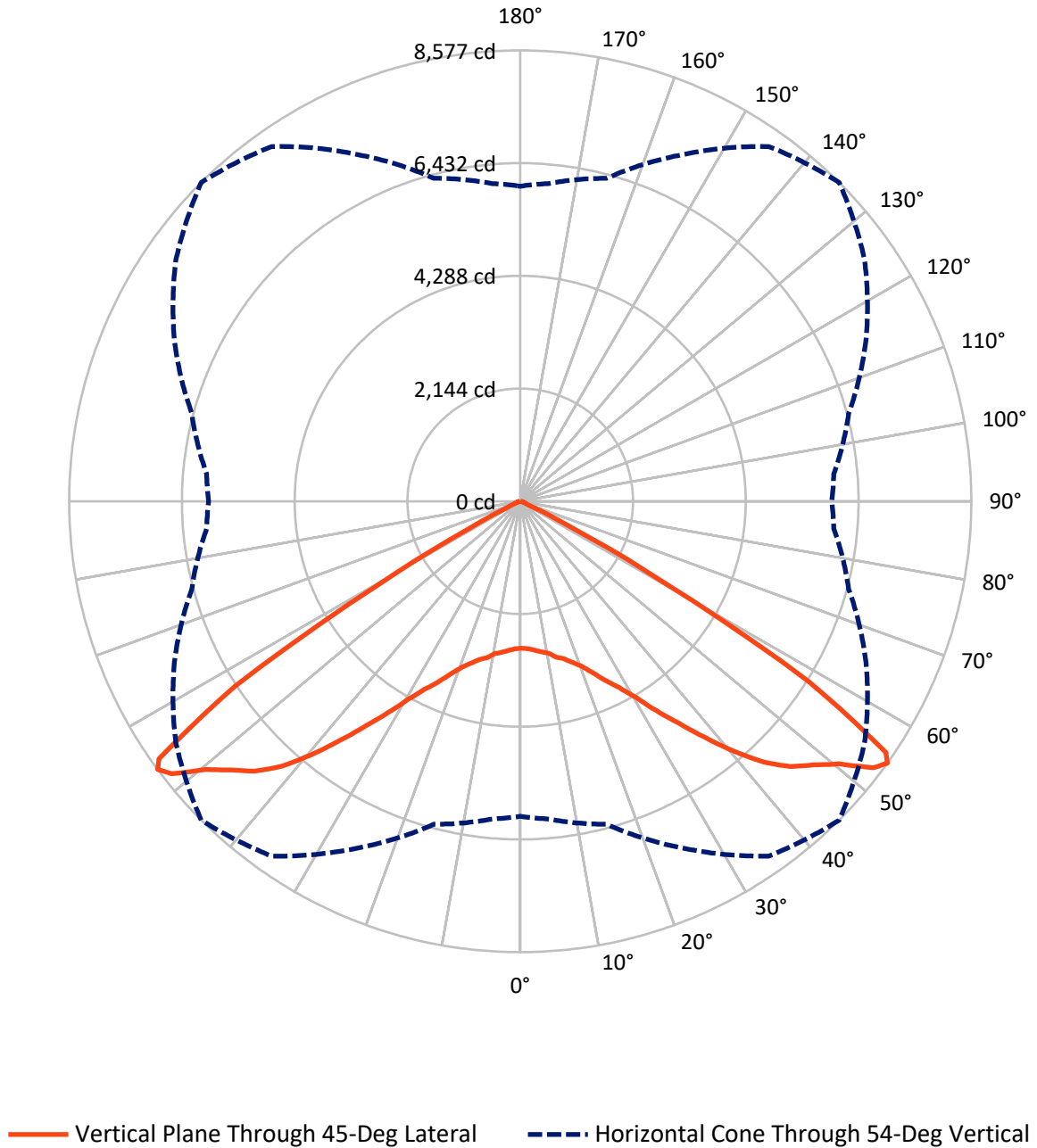
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - N/A

REPORT NUMBER: P531109
CATALOG NUMBER: GALN-SA6B-827-U-5NQ-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P531109
 CATALOG NUMBER: GALN-SA6B-827-U-5NQ-GRSBK

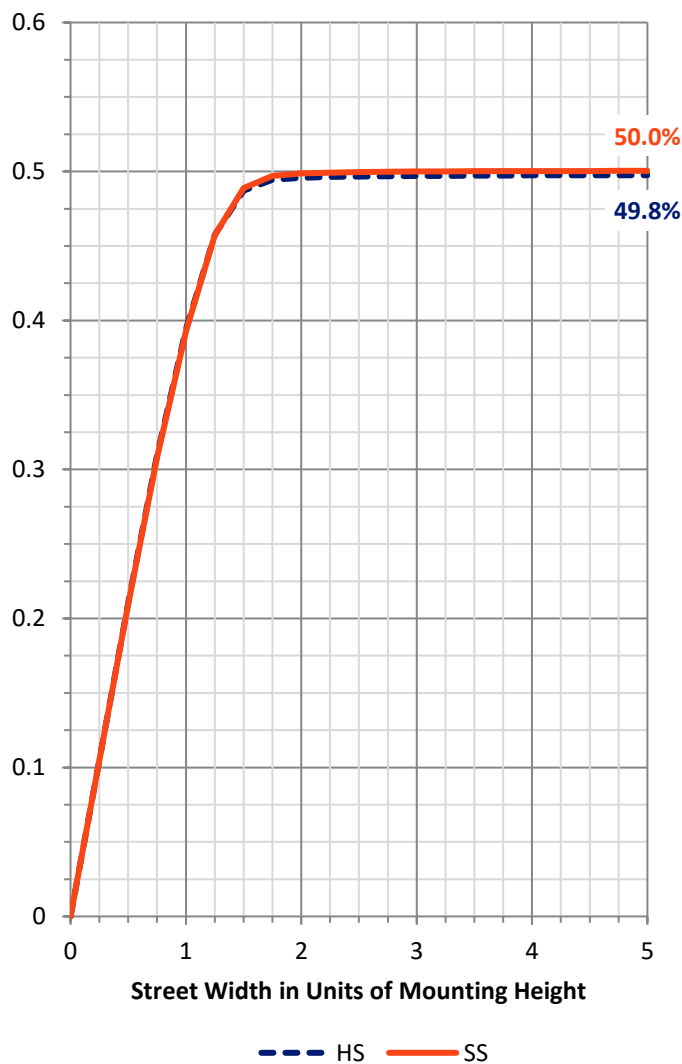
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8520.0 | 0.0 | 8520.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8520.0 | 0.0 | 8520.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 17040.0 | 0.0 | 17040.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 273.5 | 1.6 |
| 10°-20° | 885.6 | 5.2 |
| 20°-30° | 1735.7 | 10.2 |
| 30°-40° | 3121.2 | 18.3 |
| 40°-50° | 5342.9 | 31.4 |
| 50°-60° | 5169.7 | 30.3 |
| 60°-70° | 442.6 | 2.6 |
| 70°-80° | 52.5 | 0.3 |
| 80°-90° | 16.5 | 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° | 17040.0 | 100.0 |
| 0°-180° | 17040.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P531109

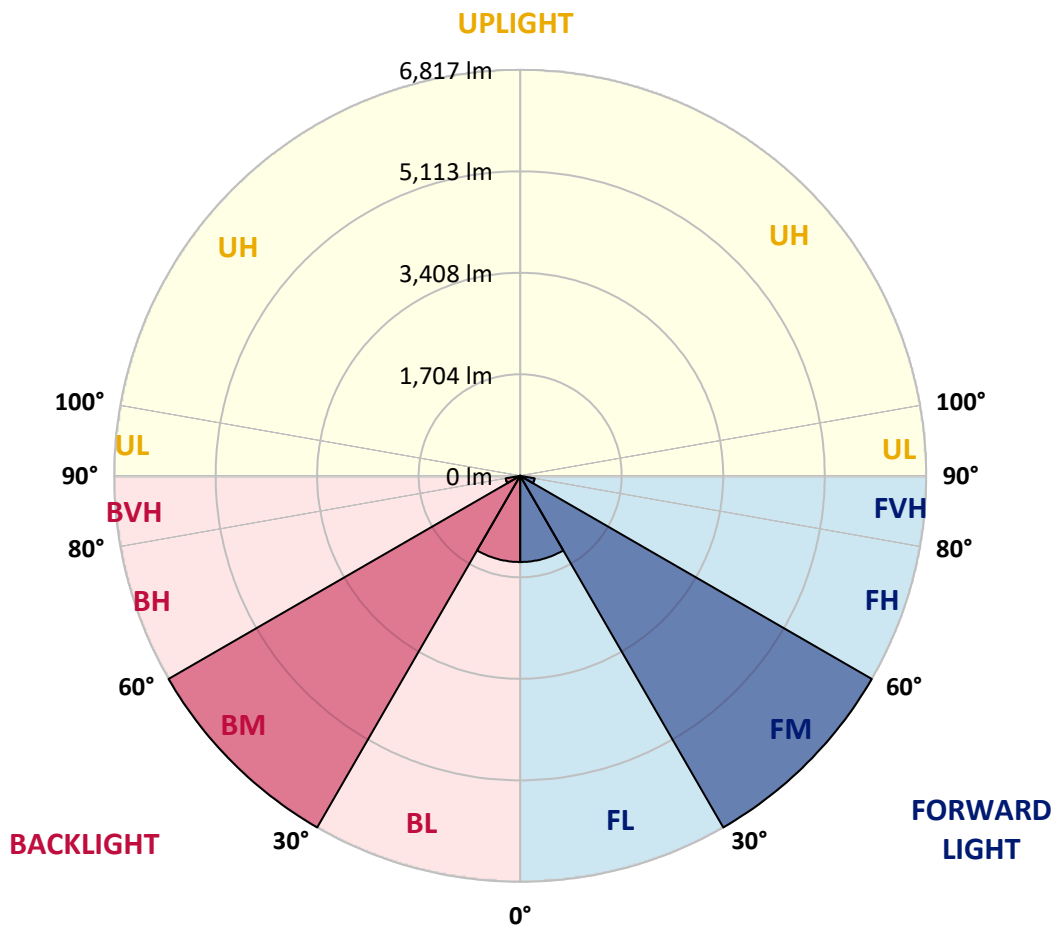
CATALOG NUMBER: GALN-SA6B-827-U-5NQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1447.4 | 8.5 | | | |
| FM (30°-60°) | 6816.9 | 40.0 | | | |
| FH (60°-80°) | 247.5 | 1.5 | | | G0/660 |
| FVH (80°-90°) | 8.2 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1447.4 | 8.5 | B3/2500 | | |
| BM (30°-60°) | 6816.9 | 40.0 | B4/8500 | | |
| BH (60°-80°) | 247.5 | 1.5 | B1/500 | | G0/660 |
| BVH (80°-90°) | 8.2 | 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





REPORT NUMBER: P531109

CATALOG NUMBER: GALN-SA6B-827-U-5NQ-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 | 2794.0 |
| 2.5° | 2807.5 | 2823.7 | 2812.9 | 2821.0 | 2821.0 | 2807.5 | 2815.6 | 2783.2 | 2804.8 | 2788.6 | 2791.3 |
| 5° | 2850.7 | 2848.0 | 2848.0 | 2850.7 | 2839.9 | 2845.3 | 2834.5 | 2823.7 | 2815.6 | 2804.8 | 2837.2 |
| 7.5° | 2904.7 | 2904.7 | 2885.8 | 2891.2 | 2885.8 | 2893.9 | 2872.3 | 2850.7 | 2842.6 | 2834.5 | 2829.1 |
| 10° | 2956.0 | 2950.6 | 2942.5 | 2966.8 | 2947.9 | 2937.1 | 2926.3 | 2912.8 | 2883.1 | 2872.3 | 2861.5 |
| 12.5° | 3031.6 | 3028.9 | 3018.1 | 3042.4 | 3031.6 | 3042.4 | 3001.9 | 2966.8 | 2961.4 | 2926.3 | 2945.2 |
| 15° | 3120.7 | 3145.0 | 3126.1 | 3126.1 | 3120.7 | 3107.2 | 3091.0 | 3074.8 | 3026.2 | 3012.7 | 3015.4 |
| 17.5° | 3236.8 | 3228.7 | 3231.4 | 3231.4 | 3258.4 | 3223.3 | 3190.9 | 3150.4 | 3126.1 | 3118.0 | 3091.0 |
| 20° | 3347.4 | 3358.2 | 3355.5 | 3374.4 | 3390.6 | 3352.8 | 3317.7 | 3312.3 | 3244.9 | 3255.7 | 3217.9 |
| 22.5° | 3541.8 | 3533.7 | 3547.2 | 3560.7 | 3549.9 | 3544.5 | 3512.1 | 3471.6 | 3412.2 | 3385.2 | 3379.8 |
| 25° | 3747.0 | 3733.5 | 3709.2 | 3741.6 | 3757.8 | 3782.1 | 3720.0 | 3698.4 | 3606.6 | 3566.1 | 3568.8 |
| 27.5° | 3922.4 | 3941.3 | 3968.3 | 3981.8 | 4022.3 | 4014.2 | 3971.0 | 3900.8 | 3830.7 | 3784.8 | 3755.1 |
| 30° | 4162.7 | 4173.5 | 4219.4 | 4238.3 | 4308.5 | 4327.4 | 4259.9 | 4178.9 | 4054.7 | 3995.3 | 3960.2 |
| 32.5° | 4384.1 | 4459.6 | 4456.9 | 4551.4 | 4664.8 | 4743.1 | 4621.6 | 4497.4 | 4373.3 | 4303.1 | 4241.0 |
| 35° | 4743.1 | 4729.6 | 4807.9 | 4907.8 | 5091.3 | 5180.4 | 5048.1 | 4905.1 | 4716.1 | 4602.7 | 4554.1 |
| 37.5° | 5077.8 | 5083.2 | 5188.5 | 5347.8 | 5558.4 | 5696.0 | 5580.0 | 5345.1 | 5150.7 | 5005.0 | 4937.5 |
| 40° | 5563.8 | 5574.6 | 5682.5 | 5863.4 | 6101.0 | 6249.4 | 6114.5 | 5876.9 | 5617.8 | 5504.4 | 5504.4 |
| 42.5° | 6133.4 | 6179.3 | 6249.4 | 6406.0 | 6619.3 | 6784.0 | 6662.5 | 6476.2 | 6214.4 | 6068.6 | 6090.2 |
| 45° | 6719.2 | 6740.8 | 6786.7 | 7018.8 | 7118.7 | 7199.7 | 7086.3 | 6999.9 | 6824.4 | 6646.3 | 6616.6 |
| 47.5° | 7267.2 | 7275.3 | 7410.3 | 7483.1 | 7561.4 | 7493.9 | 7566.8 | 7453.4 | 7256.4 | 7083.6 | 7048.5 |
| 50° | 7510.1 | 7496.6 | 7688.3 | 7909.7 | 7969.1 | 7850.3 | 7788.2 | 7712.6 | 7413.0 | 7205.1 | 7113.3 |
| 52.5° | 6802.9 | 6881.1 | 7237.5 | 7853.0 | 8317.3 | 8417.2 | 8055.4 | 7707.2 | 7148.4 | 6743.5 | 6681.4 |
| 54° | 5993.0 | 6065.9 | 6360.1 | 7272.6 | 8239.0 | 8576.5 | 7993.4 | 7253.7 | 6465.4 | 5984.9 | 5922.8 |
| 55° | 5191.2 | 5110.2 | 5644.7 | 6576.1 | 7871.9 | 8436.1 | 7747.7 | 6667.9 | 5766.2 | 5326.2 | 5239.8 |
| 57.5° | 2810.2 | 2823.7 | 3274.5 | 4154.6 | 5531.4 | 6468.1 | 5712.2 | 4510.9 | 3406.8 | 2912.8 | 2869.6 |
| 60° | 890.8 | 912.4 | 1109.5 | 1679.1 | 2642.9 | 3155.8 | 2704.9 | 1811.4 | 1252.6 | 1004.2 | 963.7 |
| 62.5° | 278.1 | 288.9 | 315.8 | 469.7 | 723.5 | 1033.9 | 809.9 | 485.9 | 361.7 | 332.0 | 337.4 |
| 65° | 170.1 | 170.1 | 172.8 | 183.6 | 216.0 | 251.1 | 243.0 | 213.3 | 205.2 | 199.8 | 197.1 |
| 67.5° | 110.7 | 108.0 | 113.4 | 121.5 | 126.9 | 129.6 | 137.7 | 145.8 | 143.1 | 137.7 | 137.7 |
| 70° | 67.5 | 64.8 | 70.2 | 81.0 | 83.7 | 89.1 | 97.2 | 108.0 | 105.3 | 99.9 | 102.6 |
| 72.5° | 37.8 | 37.8 | 40.5 | 48.6 | 56.7 | 62.1 | 70.2 | 78.3 | 81.0 | 78.3 | 78.3 |
| 75° | 13.5 | 16.2 | 21.6 | 29.7 | 35.1 | 43.2 | 51.3 | 59.4 | 67.5 | 62.1 | 59.4 |
| 77.5° | 5.4 | 5.4 | 10.8 | 18.9 | 27.0 | 35.1 | 48.6 | 56.7 | 62.1 | 56.7 | 51.3 |
| 80° | 2.7 | 2.7 | 8.1 | 16.2 | 24.3 | 32.4 | 40.5 | 48.6 | 51.3 | 45.9 | 40.5 |
| 82.5° | 2.7 | 2.7 | 8.1 | 16.2 | 24.3 | 29.7 | 43.2 | 48.6 | 54.0 | 48.6 | 40.5 |
| 85° | 0.0 | 2.7 | 8.1 | 16.2 | 21.6 | 24.3 | 24.3 | 16.2 | 13.5 | 8.1 | 8.1 |
| 87.5° | 0.0 | 0.0 | 2.7 | 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)