

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: P532617

Luminaire Tested: **GALN-SA8A-730-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532617
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-SA8A-730-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA 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: 23103 lumens
Efficiency: N/A
Efficacy: 94.7 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

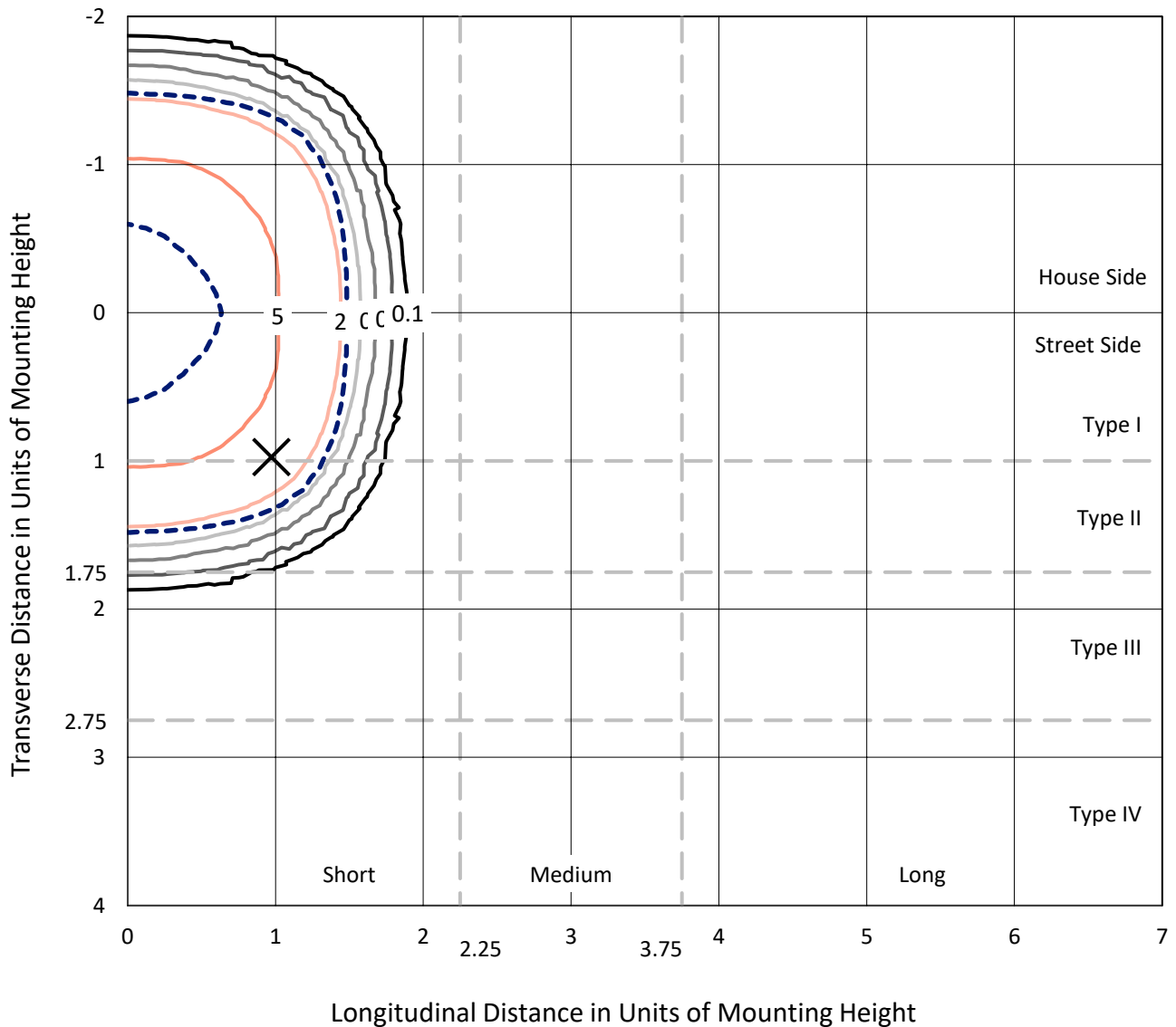
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

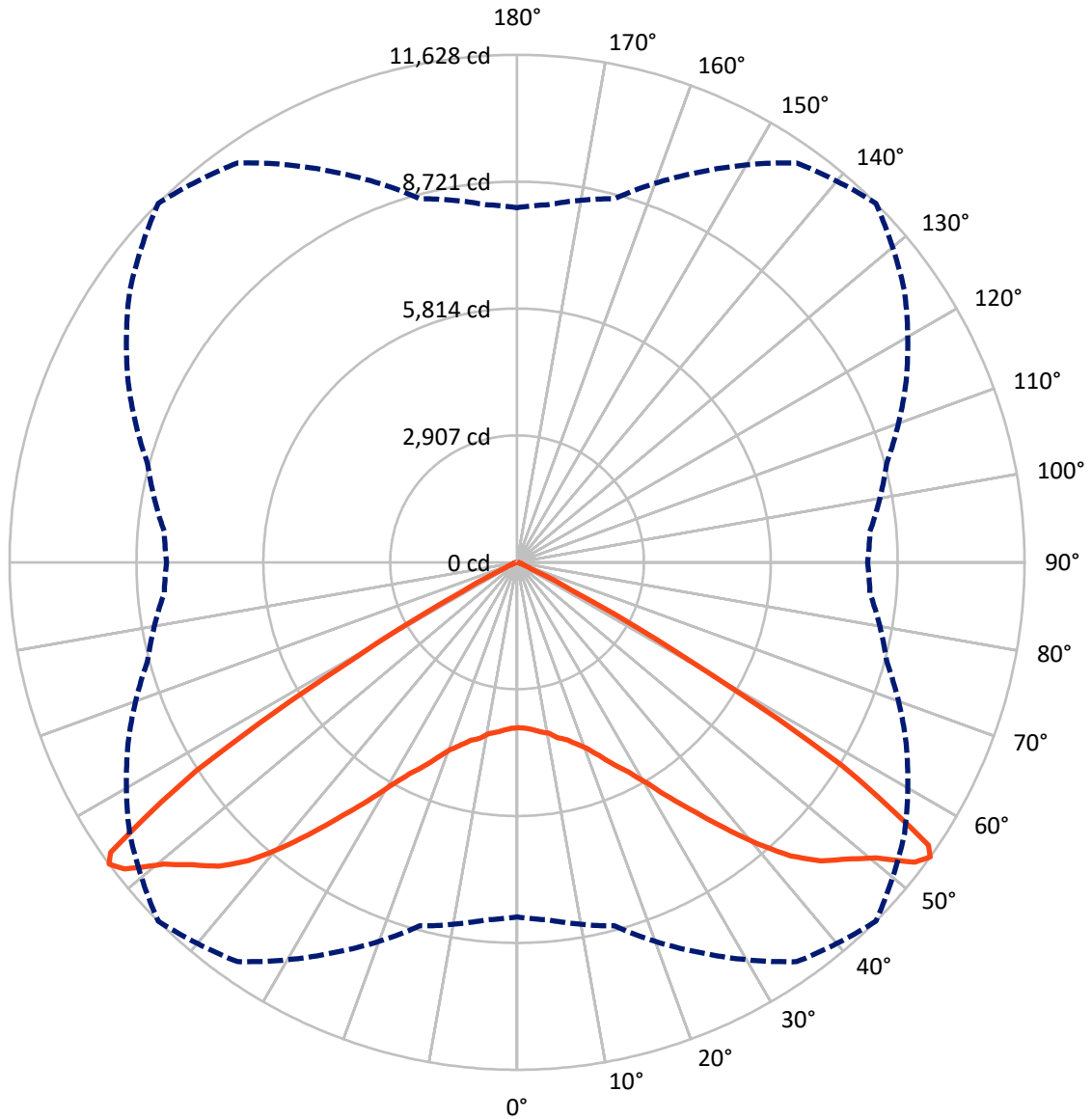
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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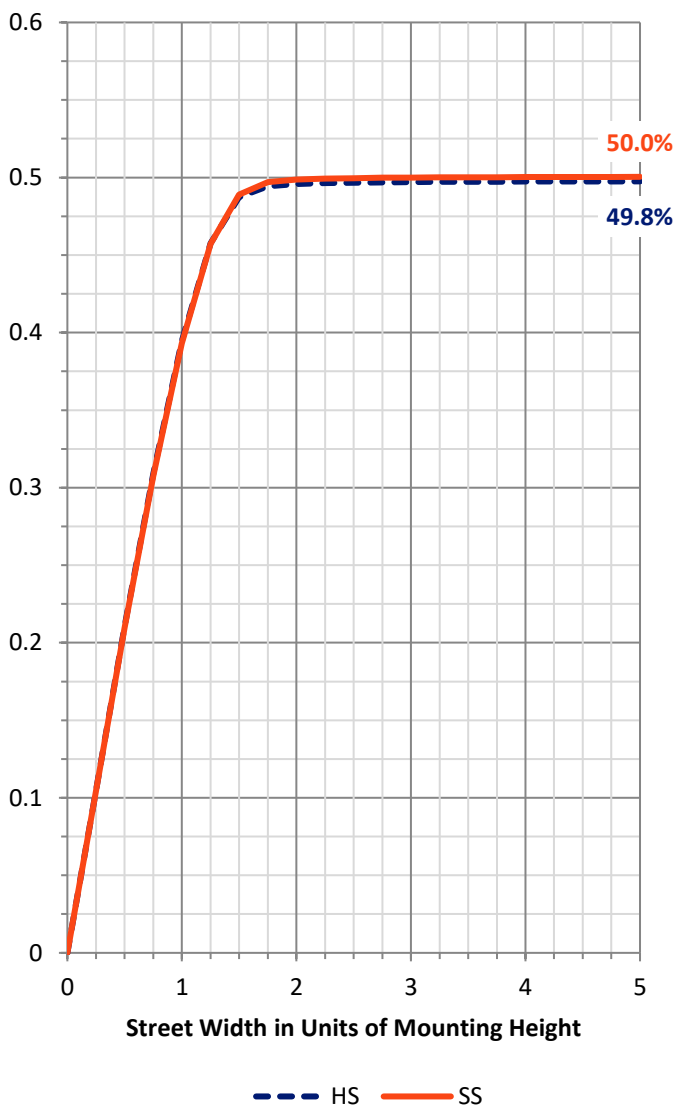
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11551.5 | 0.0 | 11551.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 11551.5 | 0.0 | 11551.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 23103.0 | 0.0 | 23103.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 370.8 | 1.6 |
| 10°-20° | 1200.7 | 5.2 |
| 20°-30° | 2353.3 | 10.2 |
| 30°-40° | 4231.7 | 18.3 |
| 40°-50° | 7243.9 | 31.4 |
| 50°-60° | 7009.2 | 30.3 |
| 60°-70° | 600.0 | 2.6 |
| 70°-80° | 71.1 | 0.3 |
| 80°-90° | 22.3 | 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° | 23103.0 | 100.0 |
| 0°-180° | 23103.0 | 100.0 |

Coefficient of Utilization

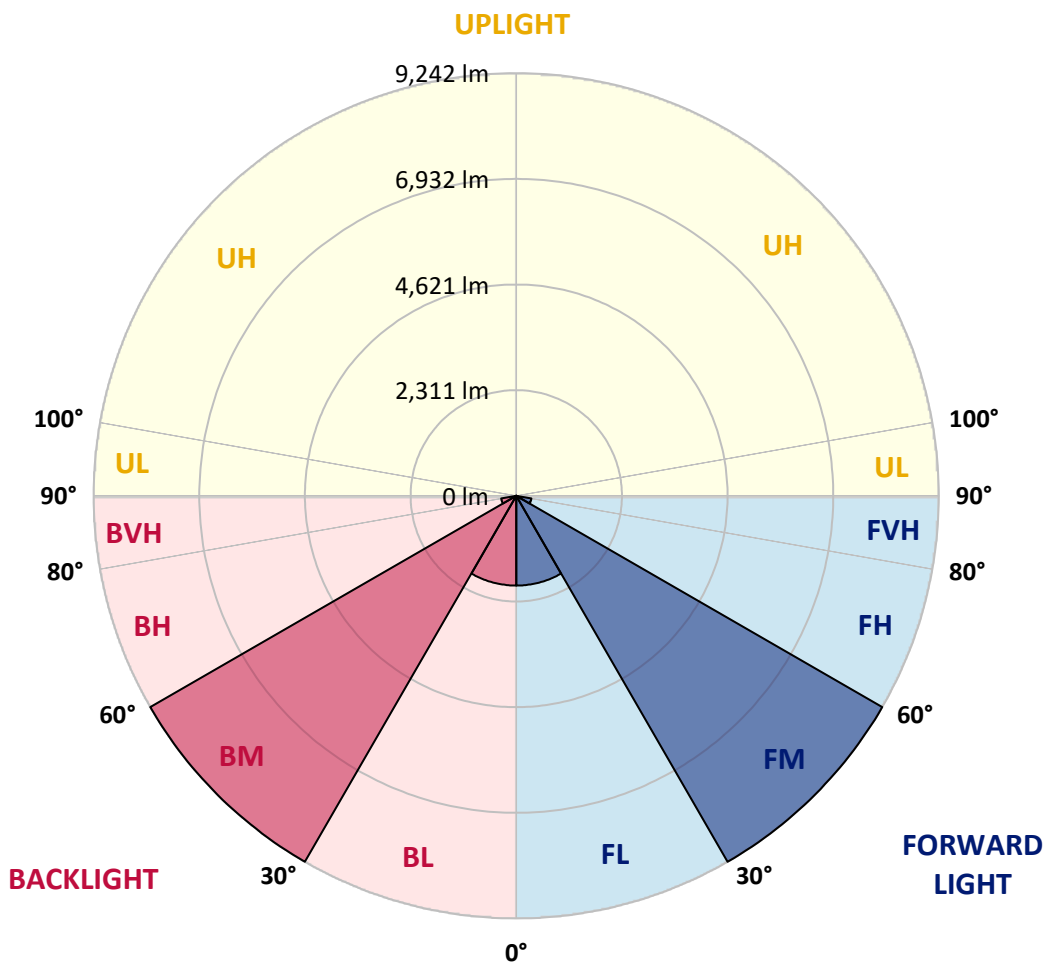


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1962.4 | 8.5 | | | |
| FM (30°-60°) | 9242.4 | 40.0 | | | |
| FH (60°-80°) | 335.6 | 1.5 | | | G0/660 |
| FVH (80°-90°) | 11.2 | 0.0 | | | G1/100 |
| BL (0°-30°) | 1962.4 | 8.5 | B3/2500 | | |
| BM (30°-60°) | 9242.4 | 40.0 | B5 | | |
| BH (60°-80°) | 335.6 | 1.5 | B1/500 | | G0/660 |
| BVH (80°-90°) | 11.2 | 0.0 | | | 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° | 3788.2 | 3788.2 | 3788.2 | 3788.2 | 3788.2 | 3788.2 | 3788.2 | 3788.2 | 3788.2 | 3788.2 | 3788.2 |
| 2.5° | 3806.5 | 3828.4 | 3813.8 | 3824.8 | 3824.8 | 3806.5 | 3817.5 | 3773.5 | 3802.8 | 3780.9 | 3784.5 |
| 5° | 3865.0 | 3861.4 | 3861.4 | 3865.0 | 3850.4 | 3857.7 | 3843.1 | 3828.4 | 3817.5 | 3802.8 | 3846.7 |
| 7.5° | 3938.2 | 3938.2 | 3912.6 | 3919.9 | 3912.6 | 3923.6 | 3894.3 | 3865.0 | 3854.1 | 3843.1 | 3835.8 |
| 10° | 4007.8 | 4000.5 | 3989.5 | 4022.4 | 3996.8 | 3982.2 | 3967.5 | 3949.2 | 3909.0 | 3894.3 | 3879.7 |
| 12.5° | 4110.3 | 4106.6 | 4092.0 | 4124.9 | 4110.3 | 4124.9 | 4070.0 | 4022.4 | 4015.1 | 3967.5 | 3993.1 |
| 15° | 4231.0 | 4264.0 | 4238.4 | 4238.4 | 4231.0 | 4212.7 | 4190.8 | 4168.8 | 4102.9 | 4084.6 | 4088.3 |
| 17.5° | 4388.4 | 4377.4 | 4381.1 | 4381.1 | 4417.7 | 4370.1 | 4326.2 | 4271.3 | 4238.4 | 4227.4 | 4190.8 |
| 20° | 4538.5 | 4553.1 | 4549.5 | 4575.1 | 4597.0 | 4545.8 | 4498.2 | 4490.9 | 4399.4 | 4414.0 | 4362.8 |
| 22.5° | 4802.0 | 4791.0 | 4809.3 | 4827.6 | 4813.0 | 4805.7 | 4761.8 | 4706.8 | 4626.3 | 4589.7 | 4582.4 |
| 25° | 5080.2 | 5061.9 | 5028.9 | 5072.9 | 5094.8 | 5127.8 | 5043.6 | 5014.3 | 4889.9 | 4835.0 | 4838.6 |
| 27.5° | 5318.1 | 5343.7 | 5380.3 | 5398.6 | 5453.5 | 5442.5 | 5384.0 | 5288.8 | 5193.6 | 5131.4 | 5091.2 |
| 30° | 5643.8 | 5658.5 | 5720.7 | 5746.3 | 5841.5 | 5867.1 | 5775.6 | 5665.8 | 5497.4 | 5416.9 | 5369.3 |
| 32.5° | 5944.0 | 6046.4 | 6042.8 | 6170.9 | 6324.6 | 6430.7 | 6266.0 | 6097.7 | 5929.3 | 5834.2 | 5750.0 |
| 35° | 6430.7 | 6412.4 | 6518.6 | 6654.0 | 6902.9 | 7023.7 | 6844.3 | 6650.3 | 6394.1 | 6240.4 | 6174.5 |
| 37.5° | 6884.6 | 6891.9 | 7034.7 | 7250.6 | 7536.1 | 7722.7 | 7565.4 | 7246.9 | 6983.4 | 6785.8 | 6694.3 |
| 40° | 7543.4 | 7558.0 | 7704.4 | 7949.7 | 8271.8 | 8473.1 | 8290.1 | 7968.0 | 7616.6 | 7462.9 | 7462.9 |
| 42.5° | 8315.7 | 8377.9 | 8473.1 | 8685.3 | 8974.5 | 9197.8 | 9033.1 | 8780.5 | 8425.5 | 8227.8 | 8257.1 |
| 45° | 9109.9 | 9139.2 | 9201.4 | 9516.2 | 9651.6 | 9761.4 | 9607.7 | 9490.6 | 9252.7 | 9011.1 | 8970.8 |
| 47.5° | 9852.9 | 9863.9 | 10046.9 | 10145.7 | 10251.9 | 10160.4 | 10259.2 | 10105.5 | 9838.3 | 9604.0 | 9556.4 |
| 50° | 10182.3 | 10164.0 | 10423.9 | 10724.0 | 10804.5 | 10643.5 | 10559.3 | 10456.8 | 10050.6 | 9768.7 | 9644.3 |
| 52.5° | 9223.4 | 9329.5 | 9812.6 | 10647.1 | 11276.7 | 11412.1 | 10921.6 | 10449.5 | 9691.9 | 9142.9 | 9058.7 |
| 54° | 8125.4 | 8224.2 | 8623.1 | 9860.2 | 11170.5 | 11628.0 | 10837.5 | 9834.6 | 8765.9 | 8114.4 | 8030.2 |
| 55° | 7038.3 | 6928.5 | 7653.2 | 8915.9 | 10672.8 | 11437.7 | 10504.4 | 9040.4 | 7817.9 | 7221.3 | 7104.2 |
| 57.5° | 3810.1 | 3828.4 | 4439.7 | 5632.8 | 7499.5 | 8769.5 | 7744.7 | 6116.0 | 4619.0 | 3949.2 | 3890.7 |
| 60° | 1207.8 | 1237.1 | 1504.3 | 2276.6 | 3583.2 | 4278.6 | 3667.4 | 2455.9 | 1698.3 | 1361.5 | 1306.6 |
| 62.5° | 377.0 | 391.6 | 428.2 | 636.9 | 980.9 | 1401.8 | 1098.0 | 658.8 | 490.4 | 450.2 | 457.5 |
| 65° | 230.6 | 230.6 | 234.2 | 248.9 | 292.8 | 340.4 | 329.4 | 289.1 | 278.2 | 270.8 | 267.2 |
| 67.5° | 150.1 | 146.4 | 153.7 | 164.7 | 172.0 | 175.7 | 186.7 | 197.6 | 194.0 | 186.7 | 186.7 |
| 70° | 91.5 | 87.8 | 95.2 | 109.8 | 113.5 | 120.8 | 131.8 | 146.4 | 142.7 | 135.4 | 139.1 |
| 72.5° | 51.2 | 51.2 | 54.9 | 65.9 | 76.9 | 84.2 | 95.2 | 106.1 | 109.8 | 106.1 | 106.1 |
| 75° | 18.3 | 22.0 | 29.3 | 40.3 | 47.6 | 58.6 | 69.5 | 80.5 | 91.5 | 84.2 | 80.5 |
| 77.5° | 7.3 | 7.3 | 14.6 | 25.6 | 36.6 | 47.6 | 65.9 | 76.9 | 84.2 | 76.9 | 69.5 |
| 80° | 3.7 | 3.7 | 11.0 | 22.0 | 32.9 | 43.9 | 54.9 | 65.9 | 69.5 | 62.2 | 54.9 |
| 82.5° | 3.7 | 3.7 | 11.0 | 22.0 | 32.9 | 40.3 | 58.6 | 65.9 | 73.2 | 65.9 | 54.9 |
| 85° | 0.0 | 3.7 | 11.0 | 22.0 | 29.3 | 32.9 | 32.9 | 22.0 | 18.3 | 11.0 | 11.0 |
| 87.5° | 0.0 | 0.0 | 3.7 | 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)