

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: P531291

Luminaire Tested: **GALN-SA6C-750-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531291
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-SA6C-750-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1050mA 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: 28639 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

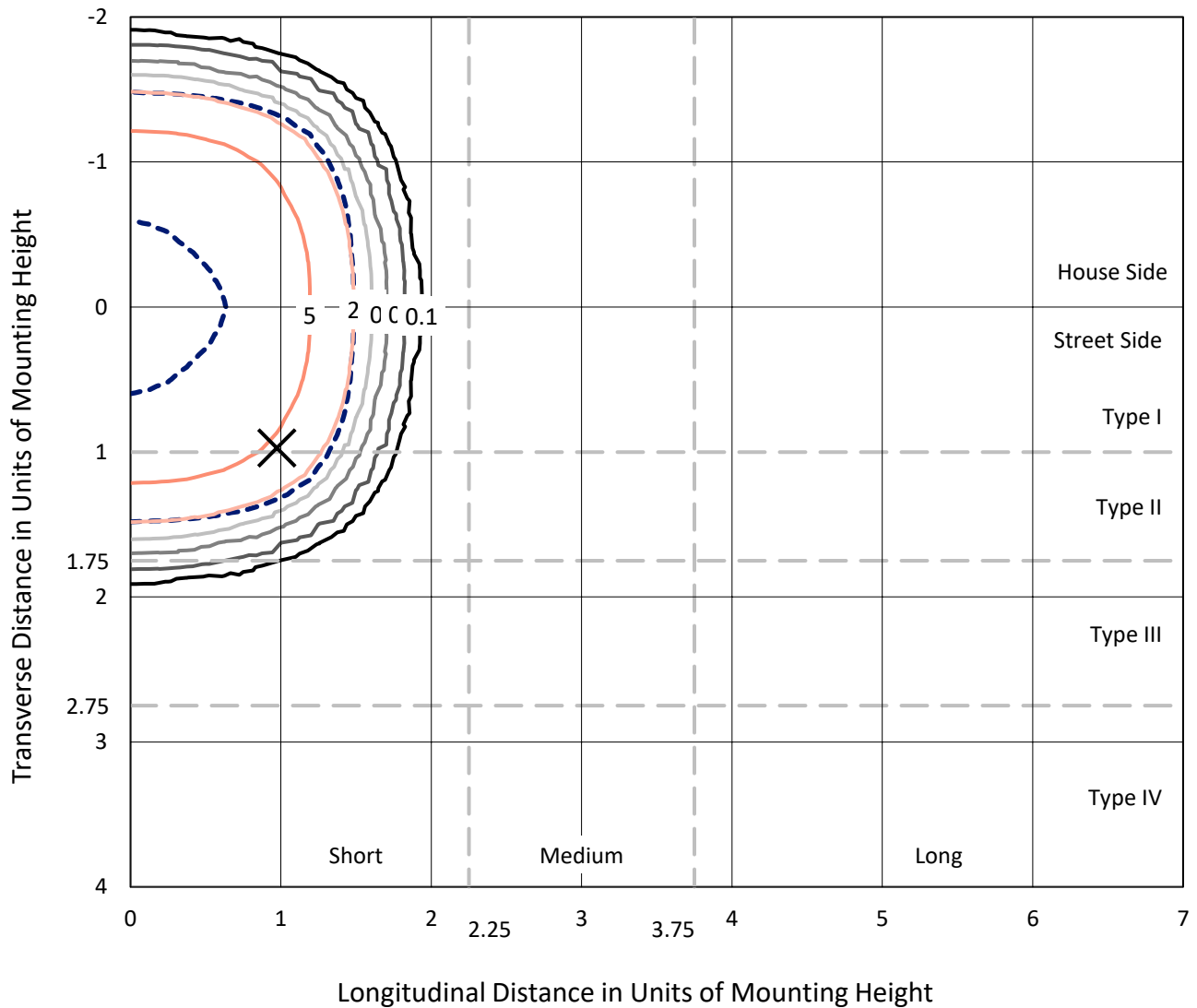
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

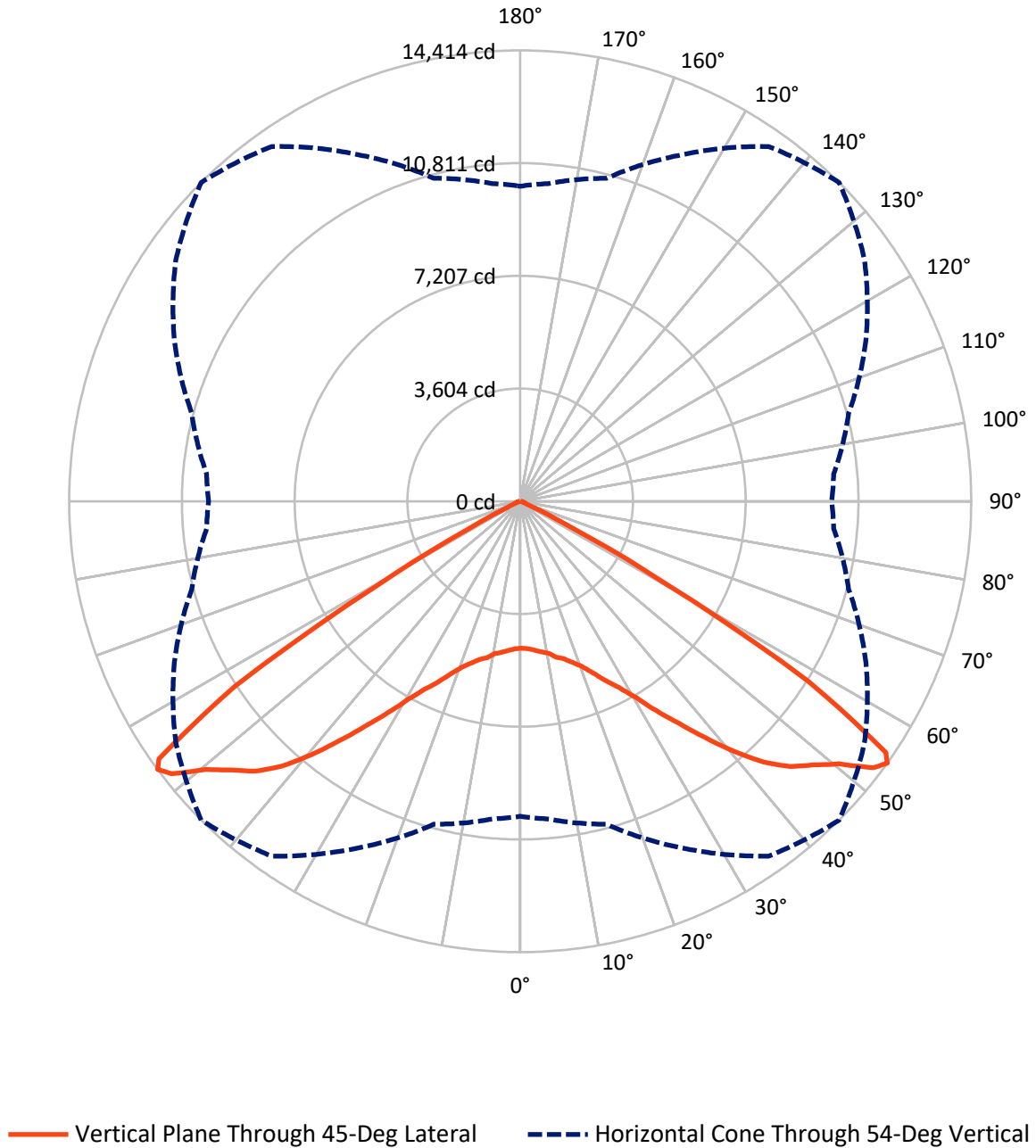
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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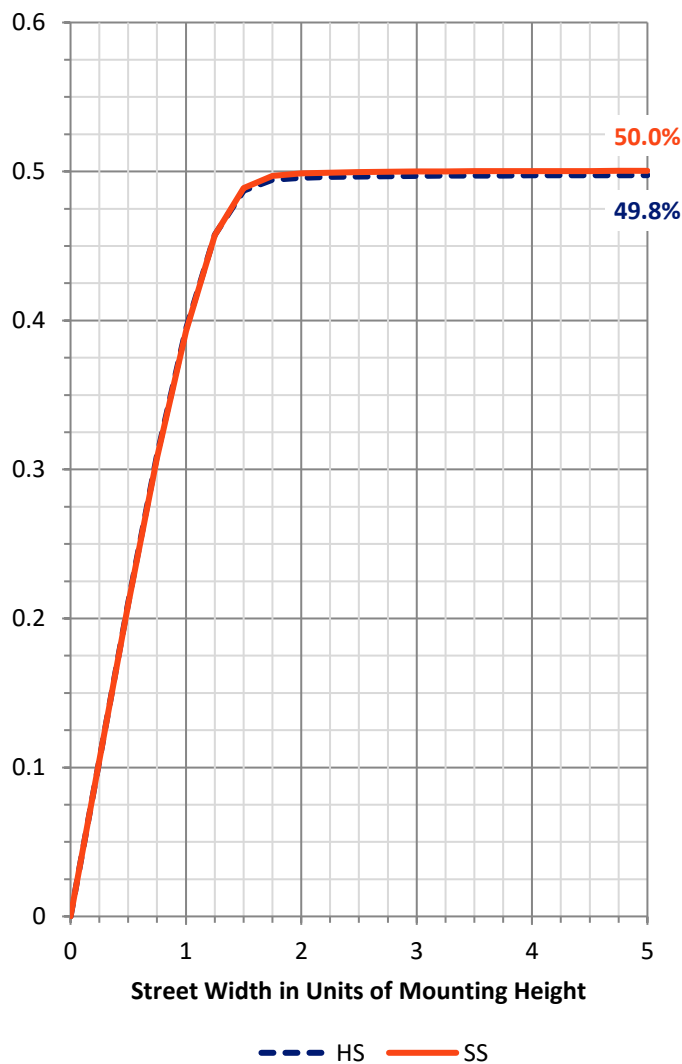
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 14319.5 | 0.0 | 14319.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 14319.5 | 0.0 | 14319.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 28639.0 | 0.0 | 28639.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 459.6 | 1.6 |
| 10°-20° | 1488.4 | 5.2 |
| 20°-30° | 2917.2 | 10.2 |
| 30°-40° | 5245.7 | 18.3 |
| 40°-50° | 8979.7 | 31.4 |
| 50°-60° | 8688.7 | 30.3 |
| 60°-70° | 743.8 | 2.6 |
| 70°-80° | 88.2 | 0.3 |
| 80°-90° | 27.6 | 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° | 28639.0 | 100.0 |
| 0°-180° | 28639.0 | 100.0 |

Coefficient of Utilization



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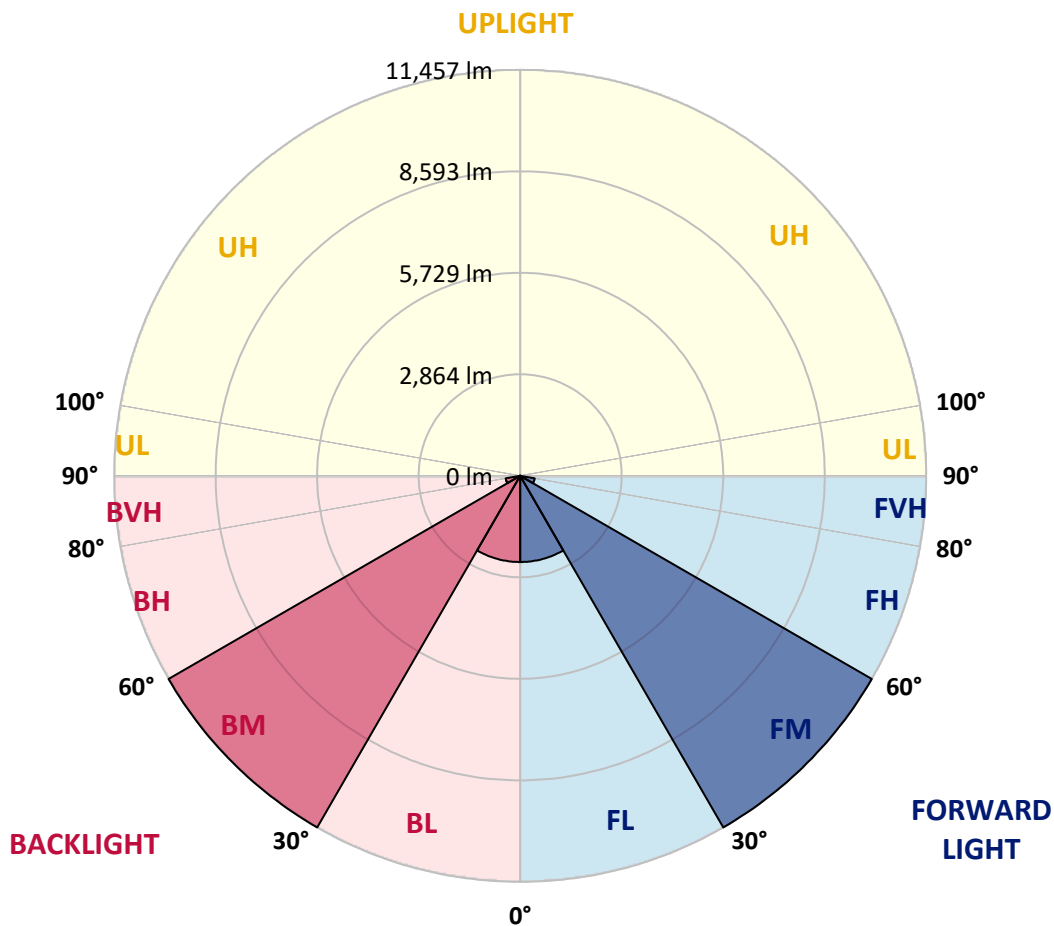
CATALOG NUMBER: GALN-SA6C-750-U-5NQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2432.6 | 8.5 | | | |
| FM (30°-60°) | 11457.1 | 40.0 | | | |
| FH (60°-80°) | 416.0 | 1.5 | | | G0/660 |
| FVH (80°-90°) | 13.8 | 0.0 | | | G1/100 |
| BL (0°-30°) | 2432.6 | 8.5 | B3/2500 | | |
| BM (30°-60°) | 11457.1 | 40.0 | B5 | | |
| BH (60°-80°) | 416.0 | 1.5 | B1/500 | | G0/660 |
| BVH (80°-90°) | 13.8 | 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° | 4695.9 | 4695.9 | 4695.9 | 4695.9 | 4695.9 | 4695.9 | 4695.9 | 4695.9 | 4695.9 | 4695.9 | 4695.9 |
| 2.5° | 4718.6 | 4745.8 | 4727.7 | 4741.3 | 4741.3 | 4718.6 | 4732.2 | 4677.8 | 4714.1 | 4686.8 | 4691.4 |
| 5° | 4791.2 | 4786.6 | 4786.6 | 4791.2 | 4773.0 | 4782.1 | 4764.0 | 4745.8 | 4732.2 | 4714.1 | 4768.5 |
| 7.5° | 4881.9 | 4881.9 | 4850.2 | 4859.2 | 4850.2 | 4863.8 | 4827.5 | 4791.2 | 4777.6 | 4764.0 | 4754.9 |
| 10° | 4968.1 | 4959.1 | 4945.4 | 4986.3 | 4954.5 | 4936.4 | 4918.2 | 4895.5 | 4845.6 | 4827.5 | 4809.3 |
| 12.5° | 5095.2 | 5090.6 | 5072.5 | 5113.3 | 5095.2 | 5113.3 | 5045.3 | 4986.3 | 4977.2 | 4918.2 | 4950.0 |
| 15° | 5244.9 | 5285.7 | 5254.0 | 5254.0 | 5244.9 | 5222.2 | 5195.0 | 5167.8 | 5086.1 | 5063.4 | 5067.9 |
| 17.5° | 5440.0 | 5426.4 | 5430.9 | 5430.9 | 5476.3 | 5417.3 | 5362.9 | 5294.8 | 5254.0 | 5240.4 | 5195.0 |
| 20° | 5626.0 | 5644.2 | 5639.6 | 5671.4 | 5698.6 | 5635.1 | 5576.1 | 5567.0 | 5453.6 | 5471.7 | 5408.2 |
| 22.5° | 5952.7 | 5939.1 | 5961.8 | 5984.4 | 5966.3 | 5957.2 | 5902.8 | 5834.7 | 5734.9 | 5689.5 | 5680.5 |
| 25° | 6297.5 | 6274.8 | 6234.0 | 6288.4 | 6315.7 | 6356.5 | 6252.1 | 6215.8 | 6061.6 | 5993.5 | 5998.1 |
| 27.5° | 6592.4 | 6624.2 | 6669.5 | 6692.2 | 6760.3 | 6746.7 | 6674.1 | 6556.1 | 6438.2 | 6361.0 | 6311.1 |
| 30° | 6996.2 | 7014.4 | 7091.5 | 7123.3 | 7241.2 | 7273.0 | 7159.6 | 7023.4 | 6814.7 | 6714.9 | 6655.9 |
| 32.5° | 7368.3 | 7495.3 | 7490.8 | 7649.6 | 7840.1 | 7971.7 | 7767.5 | 7558.8 | 7350.1 | 7232.1 | 7127.8 |
| 35° | 7971.7 | 7949.0 | 8080.6 | 8248.5 | 8557.0 | 8706.7 | 8484.4 | 8243.9 | 7926.3 | 7735.8 | 7654.1 |
| 37.5° | 8534.3 | 8543.4 | 8720.3 | 8988.0 | 9341.9 | 9573.3 | 9378.2 | 8983.5 | 8656.8 | 8411.8 | 8298.4 |
| 40° | 9351.0 | 9369.1 | 9550.6 | 9854.6 | 10253.9 | 10503.4 | 10276.5 | 9877.3 | 9441.7 | 9251.2 | 9251.2 |
| 42.5° | 10308.3 | 10385.4 | 10503.4 | 10766.6 | 11125.0 | 11401.7 | 11197.6 | 10884.5 | 10444.4 | 10199.4 | 10235.7 |
| 45° | 11292.9 | 11329.2 | 11406.3 | 11796.5 | 11964.3 | 12100.5 | 11909.9 | 11764.7 | 11469.8 | 11170.4 | 11120.4 |
| 47.5° | 12213.9 | 12227.5 | 12454.4 | 12576.9 | 12708.4 | 12595.0 | 12717.5 | 12526.9 | 12195.7 | 11905.4 | 11846.4 |
| 50° | 12622.2 | 12599.5 | 12921.7 | 13293.7 | 13393.5 | 13193.9 | 13089.5 | 12962.5 | 12458.9 | 12109.5 | 11955.3 |
| 52.5° | 11433.5 | 11565.1 | 12164.0 | 13198.4 | 13978.8 | 14146.7 | 13538.7 | 12953.4 | 12014.3 | 11333.7 | 11229.3 |
| 54° | 10072.4 | 10194.9 | 10689.4 | 12223.0 | 13847.2 | 14414.4 | 13434.4 | 12191.2 | 10866.4 | 10058.8 | 9954.4 |
| 55° | 8724.9 | 8588.7 | 9487.1 | 11052.4 | 13230.2 | 14178.5 | 13021.5 | 11206.6 | 9691.3 | 8951.7 | 8806.5 |
| 57.5° | 4723.1 | 4745.8 | 5503.5 | 6982.6 | 9296.5 | 10870.9 | 9600.5 | 7581.5 | 5725.8 | 4895.5 | 4822.9 |
| 60° | 1497.2 | 1533.5 | 1864.8 | 2822.1 | 4441.8 | 5303.9 | 4546.2 | 3044.4 | 2105.2 | 1687.8 | 1619.7 |
| 62.5° | 467.3 | 485.5 | 530.8 | 789.5 | 1215.9 | 1737.7 | 1361.1 | 816.7 | 608.0 | 558.1 | 567.1 |
| 65° | 285.8 | 285.8 | 290.4 | 308.5 | 363.0 | 422.0 | 408.3 | 358.4 | 344.8 | 335.7 | 331.2 |
| 67.5° | 186.0 | 181.5 | 190.6 | 204.2 | 213.2 | 217.8 | 231.4 | 245.0 | 240.5 | 231.4 | 231.4 |
| 70° | 113.4 | 108.9 | 118.0 | 136.1 | 140.7 | 149.7 | 163.3 | 181.5 | 176.9 | 167.9 | 172.4 |
| 72.5° | 63.5 | 63.5 | 68.1 | 81.7 | 95.3 | 104.4 | 118.0 | 131.6 | 136.1 | 131.6 | 131.6 |
| 75° | 22.7 | 27.2 | 36.3 | 49.9 | 59.0 | 72.6 | 86.2 | 99.8 | 113.4 | 104.4 | 99.8 |
| 77.5° | 9.1 | 9.1 | 18.1 | 31.8 | 45.4 | 59.0 | 81.7 | 95.3 | 104.4 | 95.3 | 86.2 |
| 80° | 4.5 | 4.5 | 13.6 | 27.2 | 40.8 | 54.4 | 68.1 | 81.7 | 86.2 | 77.1 | 68.1 |
| 82.5° | 4.5 | 4.5 | 13.6 | 27.2 | 40.8 | 49.9 | 72.6 | 81.7 | 90.7 | 81.7 | 68.1 |
| 85° | 0.0 | 4.5 | 13.6 | 27.2 | 36.3 | 40.8 | 40.8 | 27.2 | 22.7 | 13.6 | 13.6 |
| 87.5° | 0.0 | 0.0 | 4.5 | 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)