

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: STREETWORKS

Report Number: P533475

Luminaire Tested: **GLAN-SA8D-830-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533475
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: STREETWORKS
Catalog Number: GLAN-SA8D-830-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA 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: 34101 lumens
Efficiency: N/A
Efficacy: 69.2 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

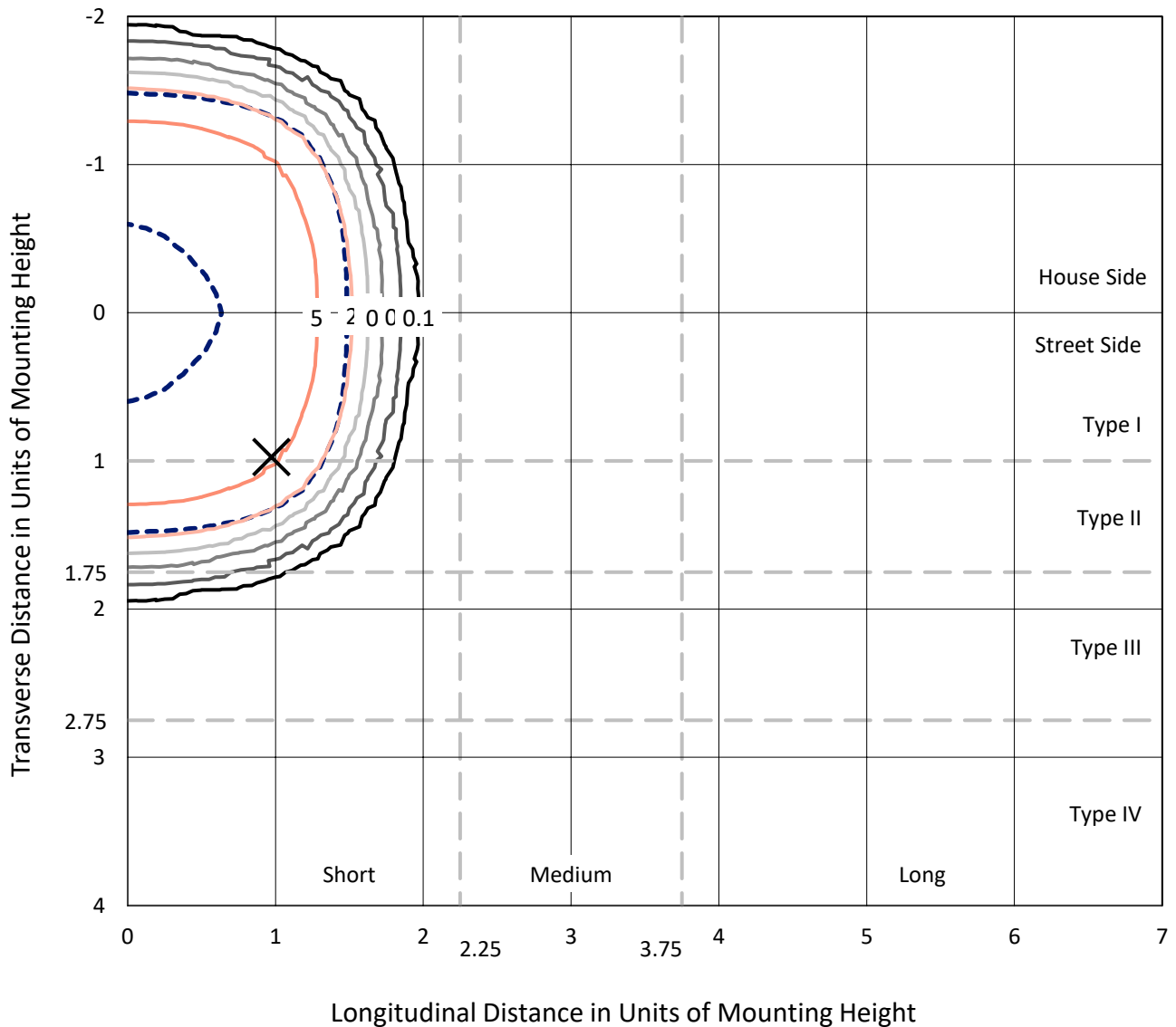
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

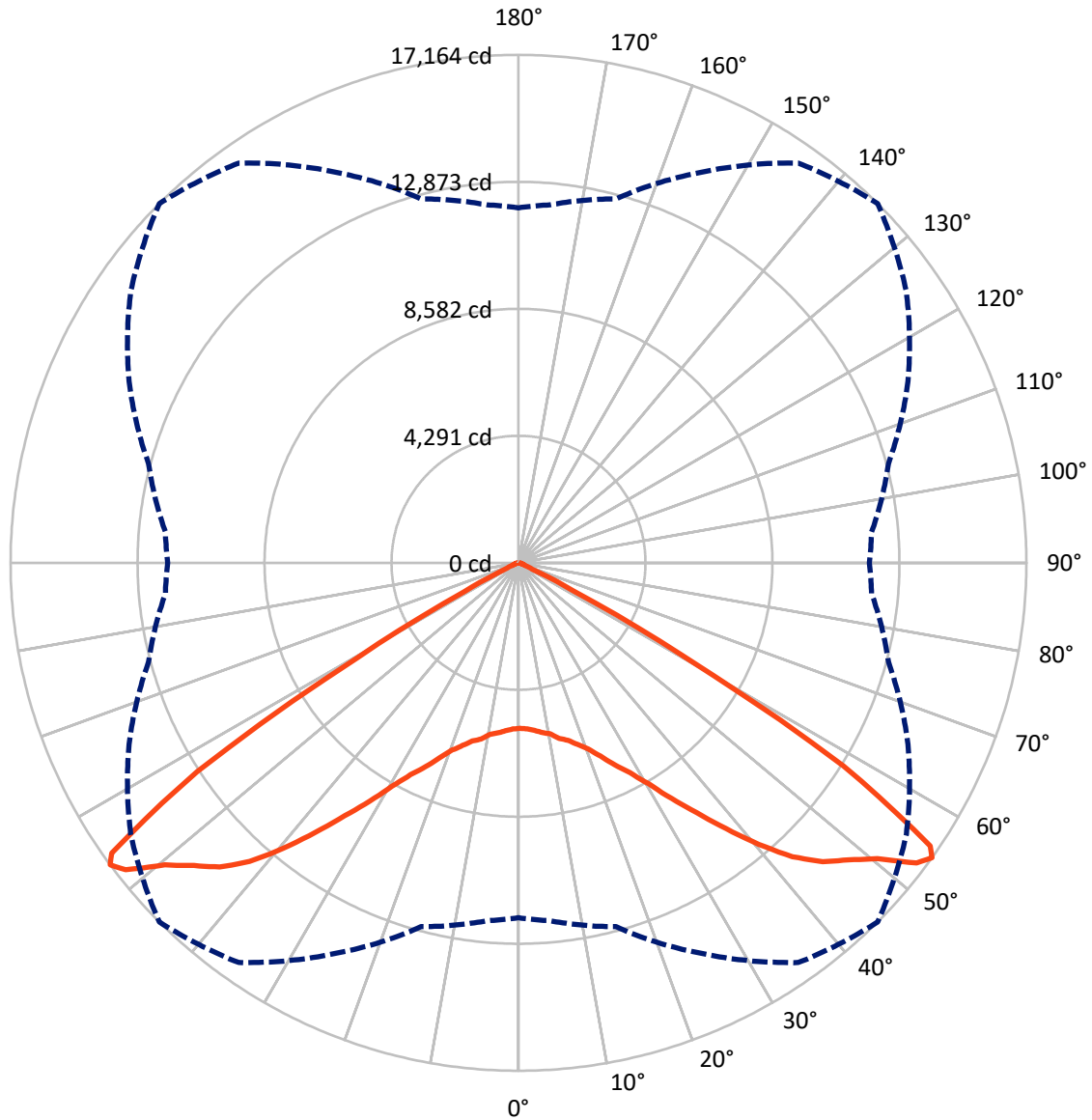
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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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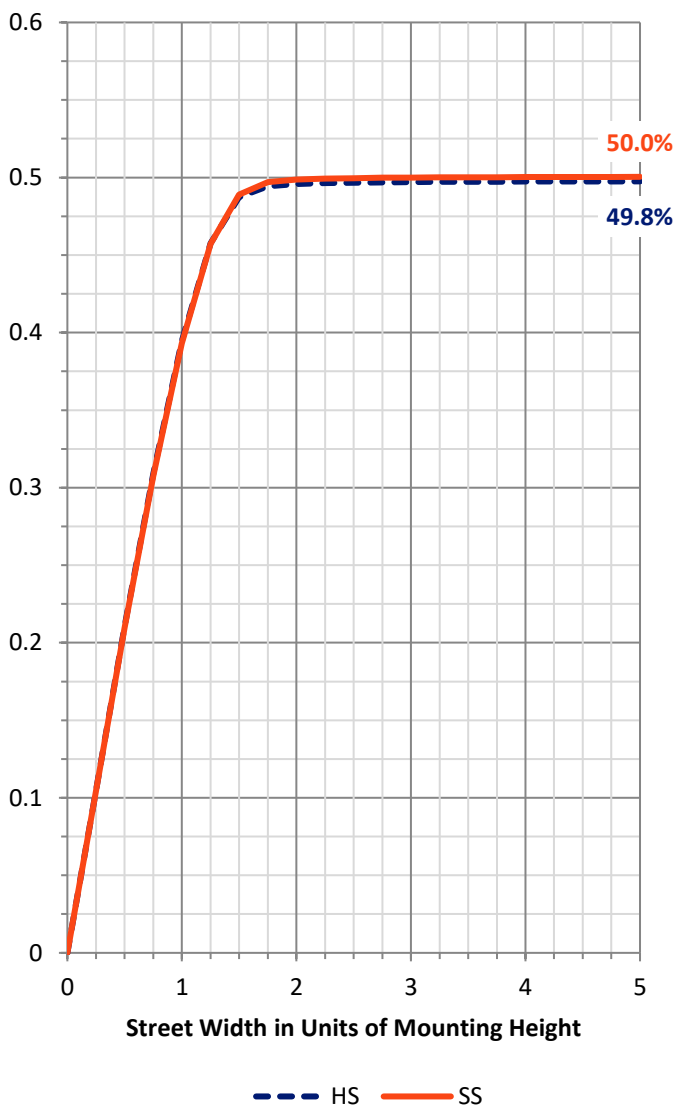
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 17050.5 | 0.0 | 17050.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 17050.5 | 0.0 | 17050.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 34101.0 | 0.0 | 34101.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 547.3 | 1.6 |
| 10°-20° | 1772.3 | 5.2 |
| 20°-30° | 3473.6 | 10.2 |
| 30°-40° | 6246.2 | 18.3 |
| 40°-50° | 10692.3 | 31.4 |
| 50°-60° | 10345.8 | 30.3 |
| 60°-70° | 885.6 | 2.6 |
| 70°-80° | 105.0 | 0.3 |
| 80°-90° | 32.9 | 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° | 34101.0 | 100.0 |
| 0°-180° | 34101.0 | 100.0 |

Coefficient of Utilization



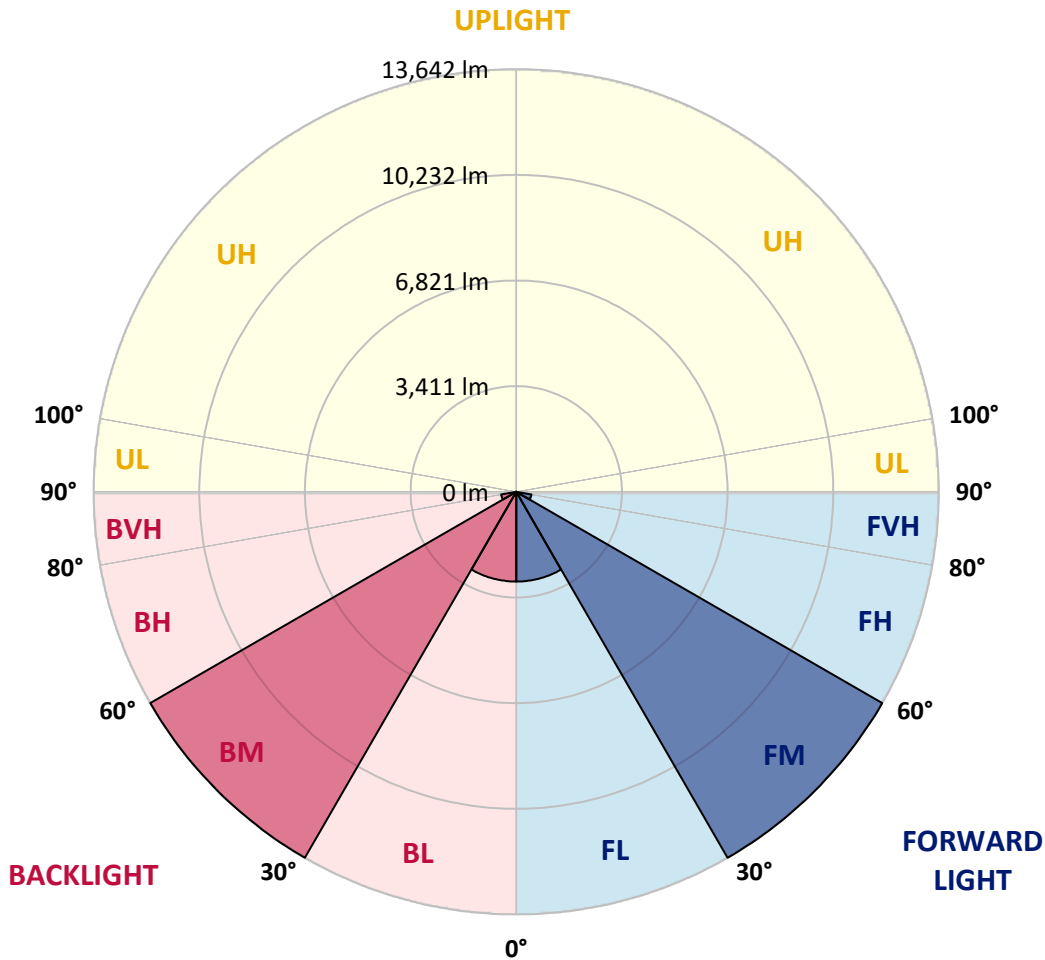
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2896.6 | 8.5 | | | |
| FM (30°-60°) | 13642.2 | 40.0 | | | |
| FH (60°-80°) | 495.3 | 1.5 | | | G0/660 |
| FVH (80°-90°) | 16.5 | 0.0 | | | G1/100 |
| BL (0°-30°) | 2896.6 | 8.5 | B4/5000 | | |
| BM (30°-60°) | 13642.2 | 40.0 | B5 | | |
| BH (60°-80°) | 495.3 | 1.5 | B1/500 | | G0/660 |
| BVH (80°-90°) | 16.5 | 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° | 5591.5 | 5591.5 | 5591.5 | 5591.5 | 5591.5 | 5591.5 | 5591.5 | 5591.5 | 5591.5 | 5591.5 | 5591.5 |
| 2.5° | 5618.5 | 5650.9 | 5629.3 | 5645.5 | 5645.5 | 5618.5 | 5634.7 | 5569.9 | 5613.1 | 5580.7 | 5586.1 |
| 5° | 5705.0 | 5699.5 | 5699.5 | 5705.0 | 5683.3 | 5694.1 | 5672.5 | 5650.9 | 5634.7 | 5613.1 | 5677.9 |
| 7.5° | 5813.0 | 5813.0 | 5775.2 | 5786.0 | 5775.2 | 5791.4 | 5748.2 | 5705.0 | 5688.7 | 5672.5 | 5661.7 |
| 10° | 5915.6 | 5904.8 | 5888.6 | 5937.3 | 5899.4 | 5877.8 | 5856.2 | 5829.2 | 5769.8 | 5748.2 | 5726.6 |
| 12.5° | 6066.9 | 6061.5 | 6039.9 | 6088.5 | 6066.9 | 6088.5 | 6007.5 | 5937.3 | 5926.5 | 5856.2 | 5894.0 |
| 15° | 6245.2 | 6293.8 | 6256.0 | 6256.0 | 6245.2 | 6218.2 | 6185.8 | 6153.4 | 6056.1 | 6029.1 | 6034.5 |
| 17.5° | 6477.5 | 6461.3 | 6466.7 | 6466.7 | 6520.7 | 6450.5 | 6385.7 | 6304.6 | 6256.0 | 6239.8 | 6185.8 |
| 20° | 6699.0 | 6720.6 | 6715.2 | 6753.0 | 6785.4 | 6709.8 | 6639.6 | 6628.8 | 6493.7 | 6515.3 | 6439.7 |
| 22.5° | 7088.0 | 7071.8 | 7098.8 | 7125.8 | 7104.2 | 7093.4 | 7028.5 | 6947.5 | 6828.7 | 6774.6 | 6763.8 |
| 25° | 7498.6 | 7471.5 | 7422.9 | 7487.7 | 7520.2 | 7568.8 | 7444.5 | 7401.3 | 7217.6 | 7136.6 | 7142.0 |
| 27.5° | 7849.7 | 7887.5 | 7941.6 | 7968.6 | 8049.6 | 8033.4 | 7947.0 | 7806.5 | 7666.0 | 7574.2 | 7514.8 |
| 30° | 8330.5 | 8352.1 | 8444.0 | 8481.8 | 8622.3 | 8660.1 | 8525.0 | 8362.9 | 8114.4 | 7995.6 | 7925.3 |
| 32.5° | 8773.5 | 8924.8 | 8919.4 | 9108.5 | 9335.4 | 9492.0 | 9248.9 | 9000.4 | 8751.9 | 8611.5 | 8487.2 |
| 35° | 9492.0 | 9465.0 | 9621.7 | 9821.6 | 10189.0 | 10367.2 | 10102.5 | 9816.2 | 9438.0 | 9211.1 | 9113.9 |
| 37.5° | 10161.9 | 10172.8 | 10383.4 | 10702.2 | 11123.6 | 11399.1 | 11166.8 | 10696.8 | 10307.8 | 10016.1 | 9881.0 |
| 40° | 11134.4 | 11156.0 | 11372.1 | 11734.0 | 12209.5 | 12506.6 | 12236.5 | 11761.1 | 11242.4 | 11015.5 | 11015.5 |
| 42.5° | 12274.3 | 12366.1 | 12506.6 | 12819.9 | 13246.7 | 13576.3 | 13333.2 | 12960.4 | 12436.4 | 12144.6 | 12187.9 |
| 45° | 13446.6 | 13489.8 | 13581.7 | 14046.3 | 14246.2 | 14408.2 | 14181.3 | 14008.5 | 13657.3 | 13300.8 | 13241.3 |
| 47.5° | 14543.3 | 14559.5 | 14829.6 | 14975.5 | 15132.2 | 14997.1 | 15143.0 | 14916.1 | 14521.7 | 14175.9 | 14105.7 |
| 50° | 15029.5 | 15002.5 | 15386.1 | 15829.1 | 15947.9 | 15710.2 | 15586.0 | 15434.7 | 14835.0 | 14419.1 | 14235.4 |
| 52.5° | 13614.1 | 13770.8 | 14483.9 | 15715.6 | 16644.8 | 16844.7 | 16120.8 | 15423.9 | 14305.6 | 13495.2 | 13371.0 |
| 54° | 11993.4 | 12139.2 | 12728.1 | 14554.1 | 16488.2 | 17163.5 | 15996.6 | 14516.3 | 12938.8 | 11977.2 | 11852.9 |
| 55° | 10388.8 | 10226.8 | 11296.5 | 13160.3 | 15753.4 | 16882.6 | 15504.9 | 13344.0 | 11539.6 | 10659.0 | 10486.1 |
| 57.5° | 5623.9 | 5650.9 | 6553.1 | 8314.3 | 11069.6 | 12944.2 | 11431.5 | 9027.4 | 6817.9 | 5829.2 | 5742.8 |
| 60° | 1782.8 | 1826.0 | 2220.4 | 3360.3 | 5289.0 | 6315.4 | 5413.2 | 3625.0 | 2506.7 | 2009.7 | 1928.7 |
| 62.5° | 556.4 | 578.1 | 632.1 | 940.0 | 1447.8 | 2069.1 | 1620.7 | 972.4 | 723.9 | 664.5 | 675.3 |
| 65° | 340.4 | 340.4 | 345.8 | 367.4 | 432.2 | 502.4 | 486.2 | 426.8 | 410.6 | 399.8 | 394.4 |
| 67.5° | 221.5 | 216.1 | 226.9 | 243.1 | 253.9 | 259.3 | 275.5 | 291.7 | 286.3 | 275.5 | 275.5 |
| 70° | 135.1 | 129.7 | 140.5 | 162.1 | 167.5 | 178.3 | 194.5 | 216.1 | 210.7 | 199.9 | 205.3 |
| 72.5° | 75.6 | 75.6 | 81.0 | 97.2 | 113.5 | 124.3 | 140.5 | 156.7 | 162.1 | 156.7 | 156.7 |
| 75° | 27.0 | 32.4 | 43.2 | 59.4 | 70.2 | 86.4 | 102.6 | 118.9 | 135.1 | 124.3 | 118.9 |
| 77.5° | 10.8 | 10.8 | 21.6 | 37.8 | 54.0 | 70.2 | 97.2 | 113.5 | 124.3 | 113.5 | 102.6 |
| 80° | 5.4 | 5.4 | 16.2 | 32.4 | 48.6 | 64.8 | 81.0 | 97.2 | 102.6 | 91.8 | 81.0 |
| 82.5° | 5.4 | 5.4 | 16.2 | 32.4 | 48.6 | 59.4 | 86.4 | 97.2 | 108.0 | 97.2 | 81.0 |
| 85° | 0.0 | 5.4 | 16.2 | 32.4 | 43.2 | 48.6 | 48.6 | 32.4 | 27.0 | 16.2 | 16.2 |
| 87.5° | 0.0 | 0.0 | 5.4 | 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)