

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: P533111

Luminaire Tested: **GLAN-SA8C-735-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533111
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-SA8C-735-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 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: 36330 lumens
Efficiency: N/A
Efficacy: 84.7 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

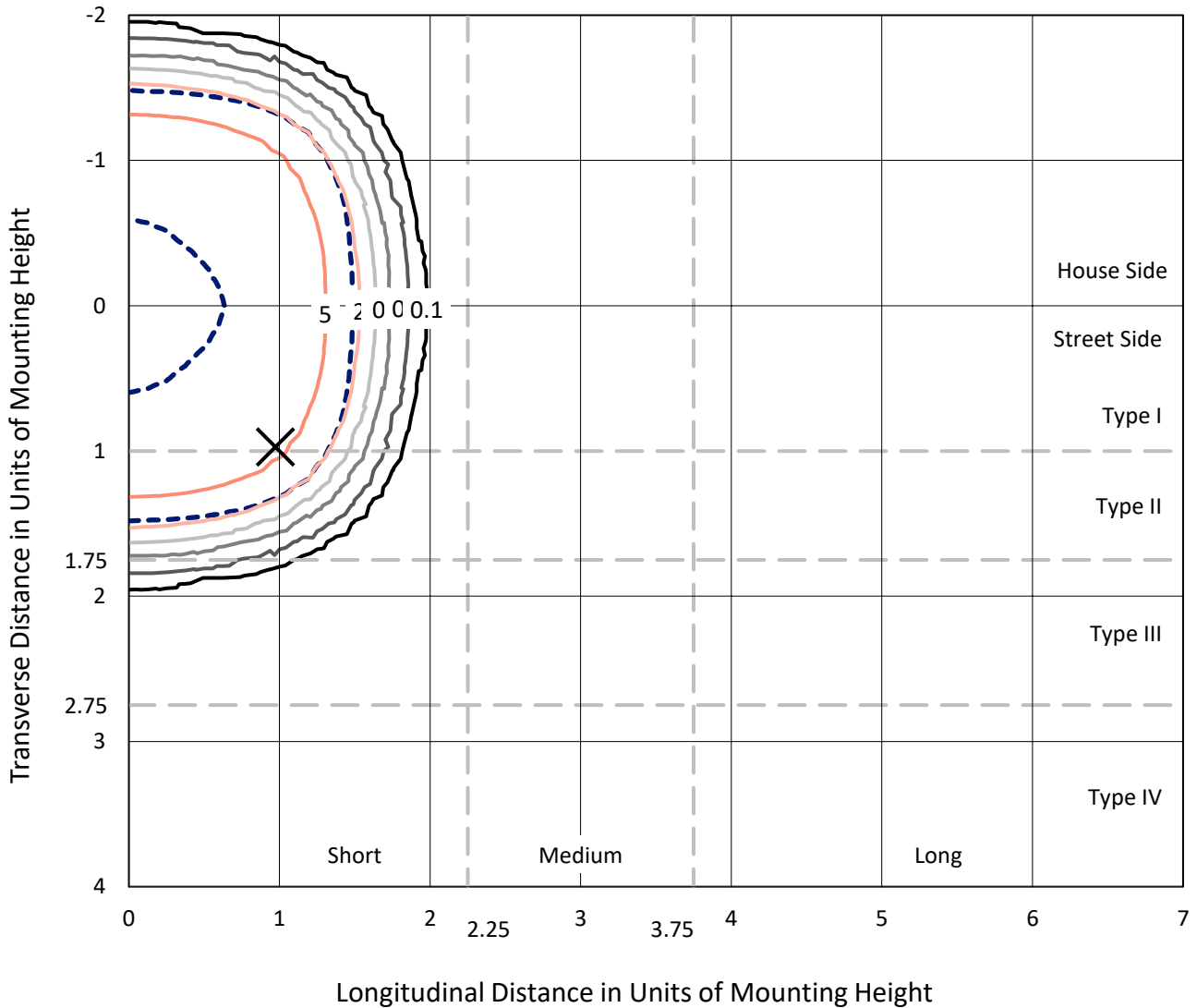
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

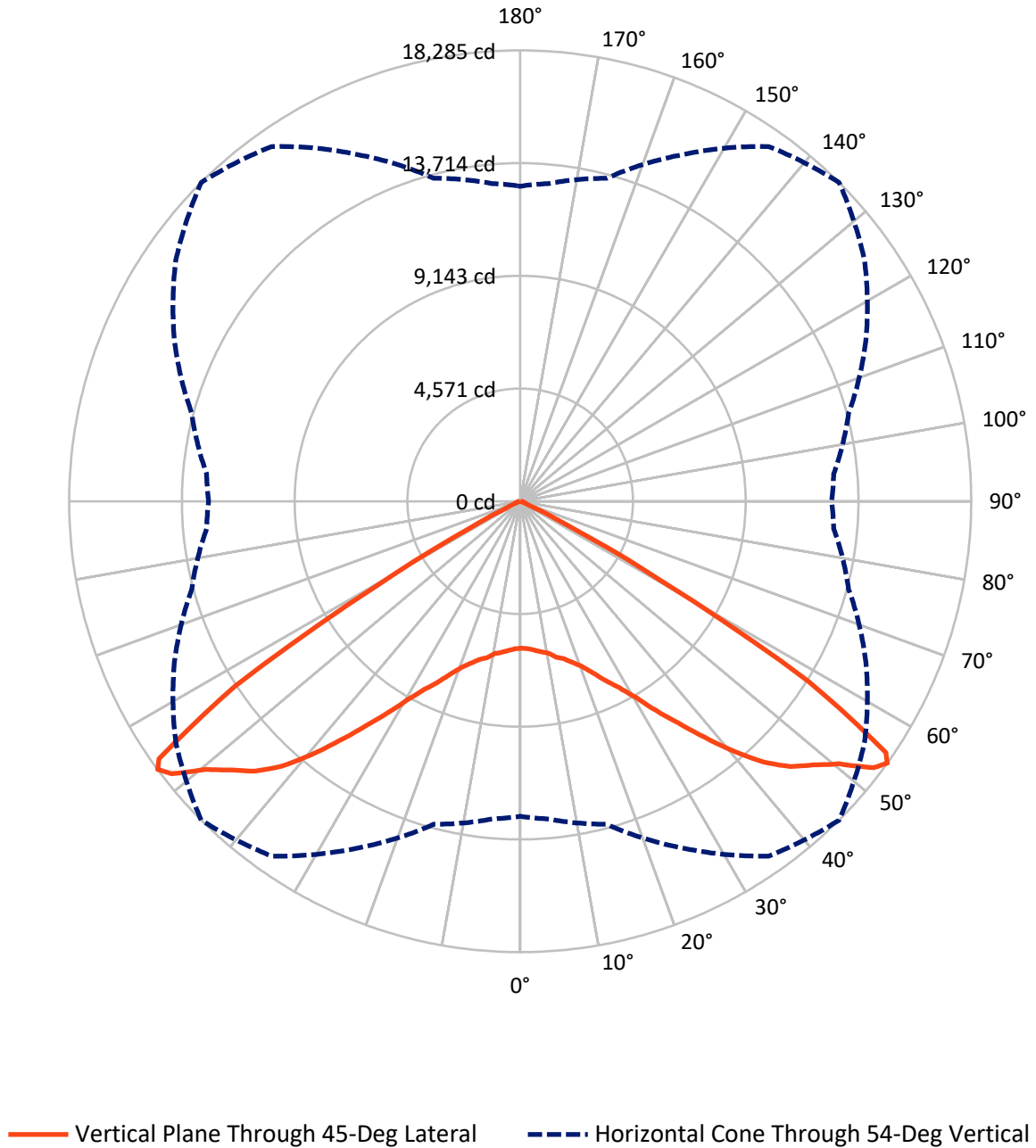
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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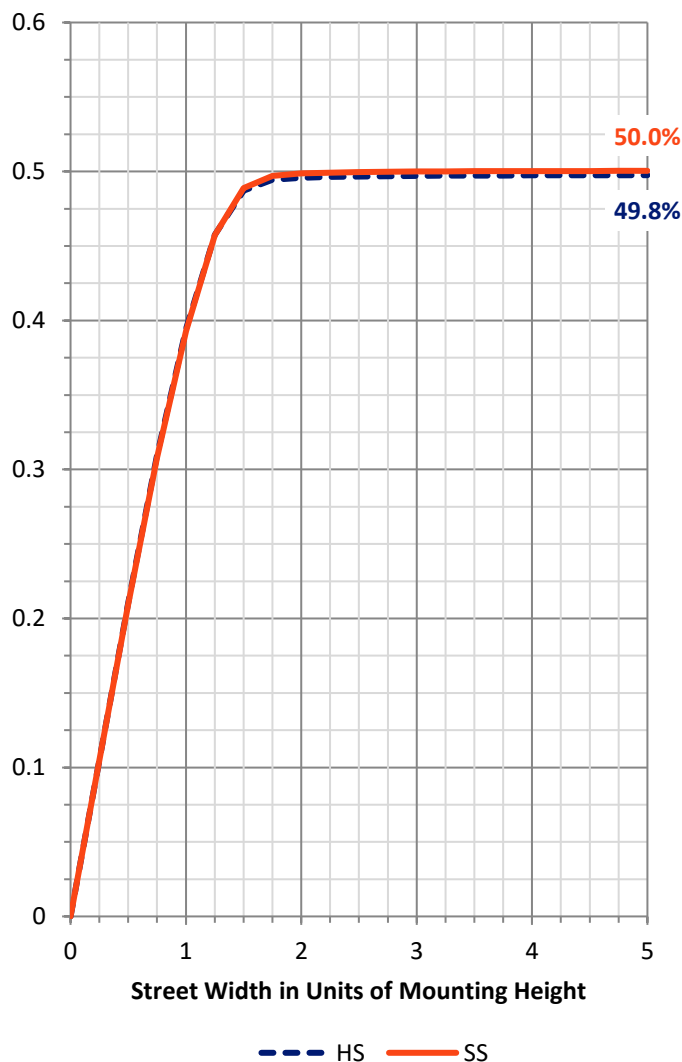
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 18165.0 | 0.0 | 18165.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 18165.0 | 0.0 | 18165.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 36330.0 | 0.0 | 36330.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 583.0 | 1.6 |
| 10°-20° | 1888.1 | 5.2 |
| 20°-30° | 3700.6 | 10.2 |
| 30°-40° | 6654.5 | 18.3 |
| 40°-50° | 11391.2 | 31.4 |
| 50°-60° | 11022.1 | 30.3 |
| 60°-70° | 943.5 | 2.6 |
| 70°-80° | 111.8 | 0.3 |
| 80°-90° | 35.1 | 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° | 36330.0 | 100.0 |
| 0°-180° | 36330.0 | 100.0 |

Coefficient of Utilization



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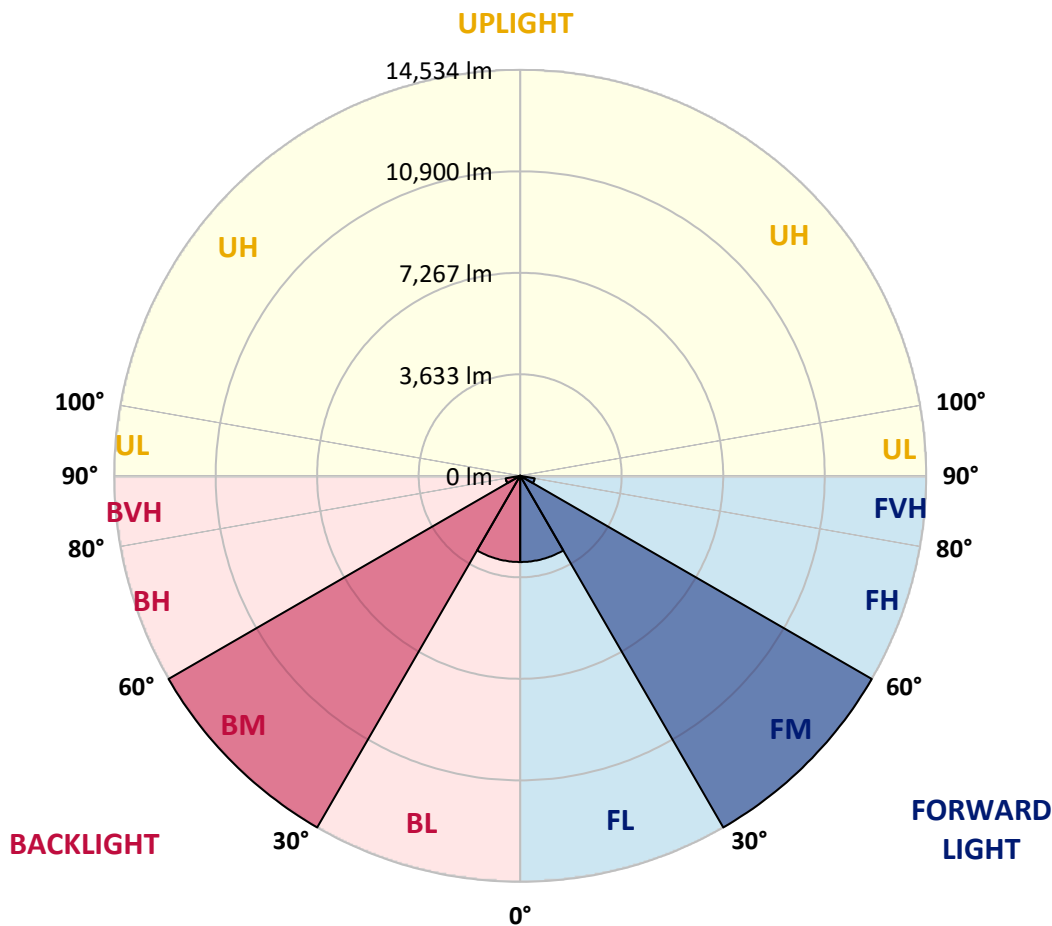
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 3085.9 | 8.5 | | | |
| FM (30°-60°) | 14533.9 | 40.0 | | | |
| FH (60°-80°) | 527.7 | 1.5 | | | G0/660 |
| FVH (80°-90°) | 17.5 | 0.0 | | | G1/100 |
| BL (0°-30°) | 3085.9 | 8.5 | B4/5000 | | |
| BM (30°-60°) | 14533.9 | 40.0 | B5 | | |
| BH (60°-80°) | 527.7 | 1.5 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 17.5 | 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° | 5957.0 | 5957.0 | 5957.0 | 5957.0 | 5957.0 | 5957.0 | 5957.0 | 5957.0 | 5957.0 | 5957.0 | 5957.0 |
| 2.5° | 5985.8 | 6020.3 | 5997.3 | 6014.5 | 6014.5 | 5985.8 | 6003.0 | 5934.0 | 5980.0 | 5945.5 | 5951.2 |
| 5° | 6077.9 | 6072.1 | 6072.1 | 6077.9 | 6054.8 | 6066.3 | 6043.3 | 6020.3 | 6003.0 | 5980.0 | 6049.1 |
| 7.5° | 6193.0 | 6193.0 | 6152.7 | 6164.2 | 6152.7 | 6169.9 | 6123.9 | 6077.9 | 6060.6 | 6043.3 | 6031.8 |
| 10° | 6302.3 | 6290.8 | 6273.5 | 6325.3 | 6285.1 | 6262.0 | 6239.0 | 6210.2 | 6146.9 | 6123.9 | 6100.9 |
| 12.5° | 6463.5 | 6457.7 | 6434.7 | 6486.5 | 6463.5 | 6486.5 | 6400.2 | 6325.3 | 6313.8 | 6239.0 | 6279.3 |
| 15° | 6653.4 | 6705.2 | 6664.9 | 6664.9 | 6653.4 | 6624.6 | 6590.1 | 6555.6 | 6452.0 | 6423.2 | 6428.9 |
| 17.5° | 6900.9 | 6883.6 | 6889.4 | 6889.4 | 6946.9 | 6872.1 | 6803.1 | 6716.7 | 6664.9 | 6647.7 | 6590.1 |
| 20° | 7136.9 | 7159.9 | 7154.1 | 7194.4 | 7229.0 | 7148.4 | 7073.6 | 7062.1 | 6918.2 | 6941.2 | 6860.6 |
| 22.5° | 7551.3 | 7534.0 | 7562.8 | 7591.6 | 7568.5 | 7557.0 | 7488.0 | 7401.6 | 7275.0 | 7217.5 | 7205.9 |
| 25° | 7988.7 | 7959.9 | 7908.1 | 7977.2 | 8011.7 | 8063.5 | 7931.1 | 7885.1 | 7689.4 | 7603.1 | 7608.8 |
| 27.5° | 8362.8 | 8403.1 | 8460.6 | 8489.4 | 8575.8 | 8558.5 | 8466.4 | 8316.8 | 8167.1 | 8069.3 | 8006.0 |
| 30° | 8875.0 | 8898.1 | 8995.9 | 9036.2 | 9185.8 | 9226.1 | 9082.2 | 8909.6 | 8644.8 | 8518.2 | 8443.4 |
| 32.5° | 9347.0 | 9508.2 | 9502.4 | 9703.8 | 9945.6 | 10112.5 | 9853.5 | 9588.7 | 9324.0 | 9174.3 | 9042.0 |
| 35° | 10112.5 | 10083.7 | 10250.6 | 10463.6 | 10855.0 | 11044.9 | 10762.9 | 10457.8 | 10054.9 | 9813.2 | 9709.6 |
| 37.5° | 10826.2 | 10837.7 | 11062.2 | 11401.7 | 11850.7 | 12144.2 | 11896.7 | 11396.0 | 10981.6 | 10670.8 | 10526.9 |
| 40° | 11862.2 | 11885.2 | 12115.4 | 12501.0 | 13007.5 | 13324.1 | 13036.3 | 12529.8 | 11977.3 | 11735.6 | 11735.6 |
| 42.5° | 13076.6 | 13174.4 | 13324.1 | 13657.9 | 14112.6 | 14463.7 | 14204.7 | 13807.6 | 13249.3 | 12938.5 | 12984.5 |
| 45° | 14325.5 | 14371.6 | 14469.4 | 14964.4 | 15177.4 | 15350.0 | 15108.3 | 14924.1 | 14550.0 | 14170.1 | 14106.8 |
| 47.5° | 15493.9 | 15511.2 | 15799.0 | 15954.4 | 16121.3 | 15977.4 | 16132.8 | 15891.1 | 15470.9 | 15102.5 | 15027.7 |
| 50° | 16011.9 | 15983.1 | 16391.8 | 16863.7 | 16990.4 | 16737.1 | 16604.7 | 16443.6 | 15804.7 | 15361.5 | 15165.9 |
| 52.5° | 14504.0 | 14670.9 | 15430.6 | 16742.9 | 17732.8 | 17945.8 | 17174.5 | 16432.1 | 15240.7 | 14377.3 | 14245.0 |
| 54° | 12777.3 | 12932.7 | 13560.1 | 15505.4 | 17565.9 | 18285.4 | 17042.2 | 15465.1 | 13784.5 | 12760.0 | 12627.7 |
| 55° | 11067.9 | 10895.2 | 12034.8 | 14020.5 | 16783.2 | 17986.1 | 16518.4 | 14216.2 | 12293.8 | 11355.7 | 11171.5 |
| 57.5° | 5991.5 | 6020.3 | 6981.5 | 8857.8 | 11793.1 | 13790.3 | 12178.7 | 9617.5 | 7263.5 | 6210.2 | 6118.1 |
| 60° | 1899.3 | 1945.4 | 2365.5 | 3579.9 | 5634.7 | 6728.2 | 5767.1 | 3862.0 | 2670.6 | 2141.1 | 2054.7 |
| 62.5° | 592.8 | 615.8 | 673.4 | 1001.5 | 1542.5 | 2204.4 | 1726.7 | 1036.0 | 771.2 | 707.9 | 719.4 |
| 65° | 362.6 | 362.6 | 368.4 | 391.4 | 460.4 | 535.3 | 518.0 | 454.7 | 437.4 | 425.9 | 420.2 |
| 67.5° | 236.0 | 230.2 | 241.7 | 259.0 | 270.5 | 276.3 | 293.5 | 310.8 | 305.0 | 293.5 | 293.5 |
| 70° | 143.9 | 138.1 | 149.6 | 172.7 | 178.4 | 189.9 | 207.2 | 230.2 | 224.5 | 213.0 | 218.7 |
| 72.5° | 80.6 | 80.6 | 86.3 | 103.6 | 120.9 | 132.4 | 149.6 | 166.9 | 172.7 | 166.9 | 166.9 |
| 75° | 28.8 | 34.5 | 46.0 | 63.3 | 74.8 | 92.1 | 109.4 | 126.6 | 143.9 | 132.4 | 126.6 |
| 77.5° | 11.5 | 11.5 | 23.0 | 40.3 | 57.6 | 74.8 | 103.6 | 120.9 | 132.4 | 120.9 | 109.4 |
| 80° | 5.8 | 5.8 | 17.3 | 34.5 | 51.8 | 69.1 | 86.3 | 103.6 | 109.4 | 97.8 | 86.3 |
| 82.5° | 5.8 | 5.8 | 17.3 | 34.5 | 51.8 | 63.3 | 92.1 | 103.6 | 115.1 | 103.6 | 86.3 |
| 85° | 0.0 | 5.8 | 17.3 | 34.5 | 46.0 | 51.8 | 51.8 | 34.5 | 28.8 | 17.3 | 17.3 |
| 87.5° | 0.0 | 0.0 | 5.8 | 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)