

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: P653473

Luminaire Tested: **GLAN-SA7D-840-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P653473
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7D-840-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47291.1 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

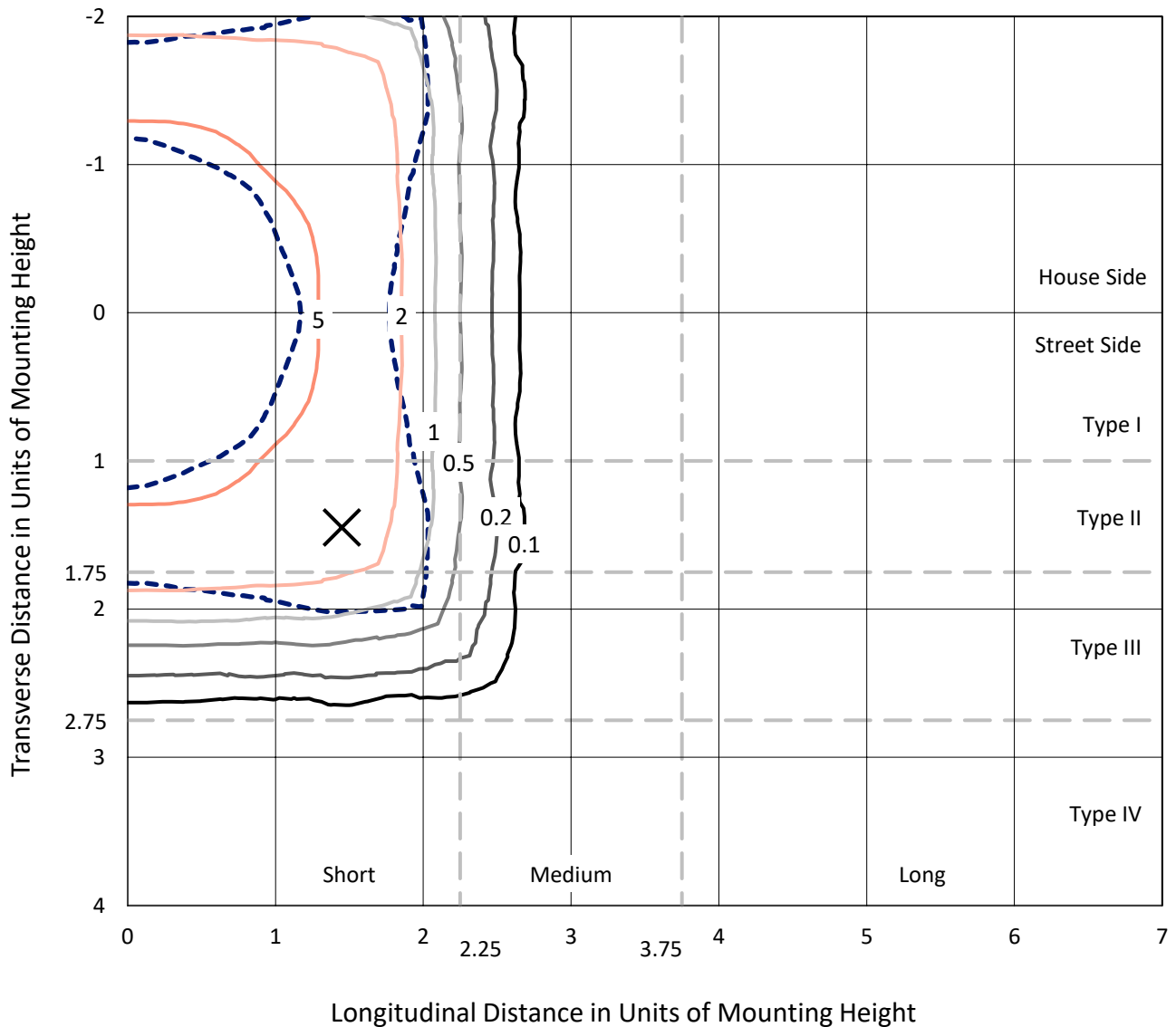
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

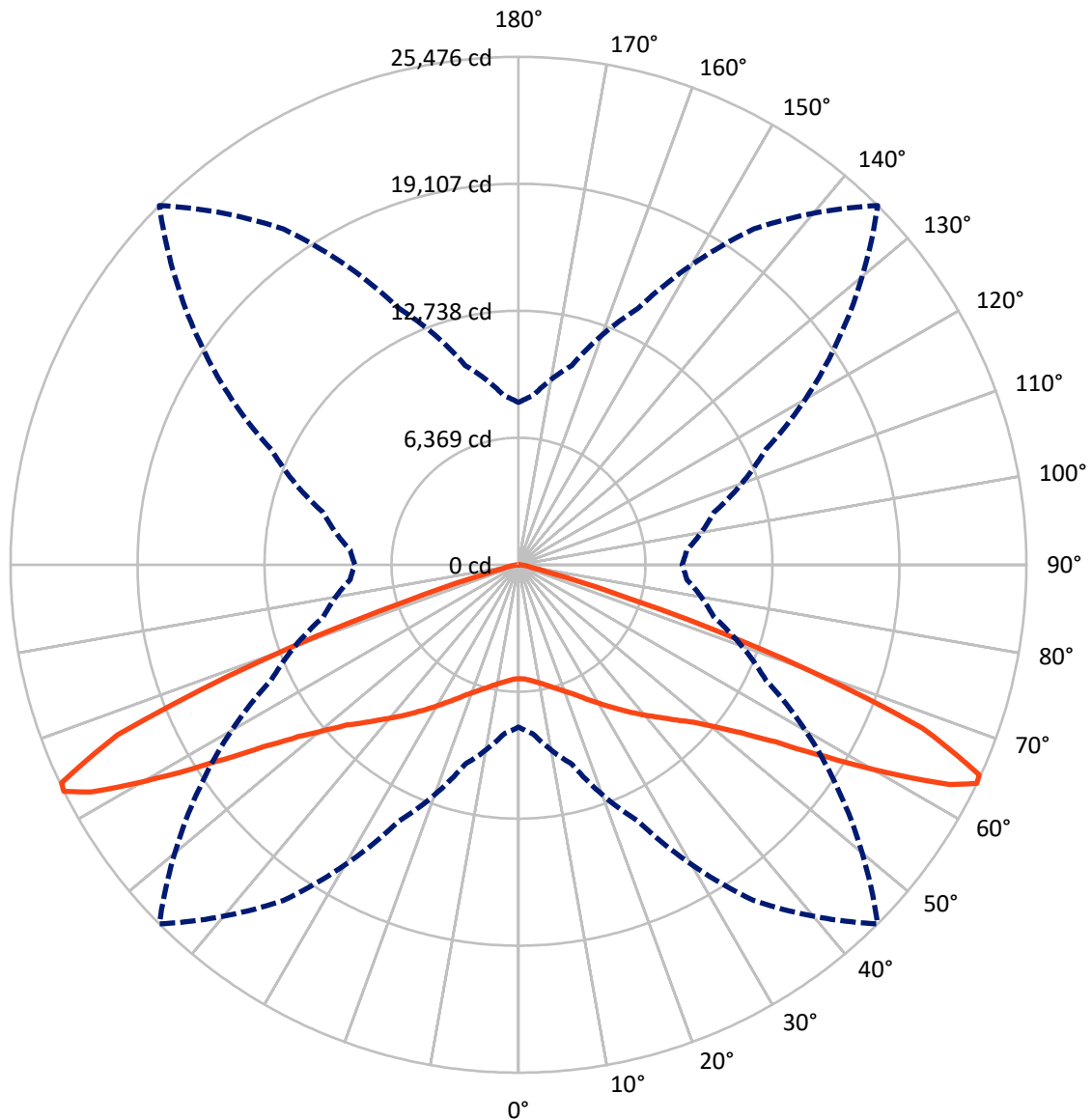
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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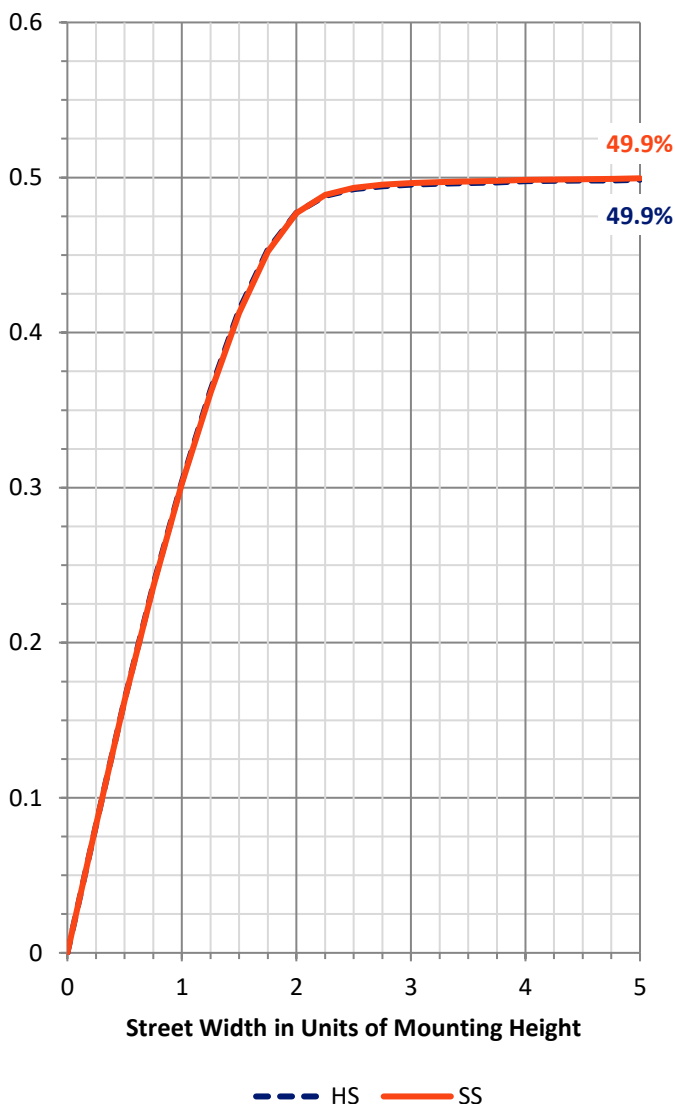
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 23645.6 | 0.0 | 23645.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 23645.6 | 0.0 | 23645.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 47291.1 | 0.0 | 47291.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 561.6 | 1.2 |
| 10°-20° | 1811.4 | 3.8 |
| 20°-30° | 3423.0 | 7.2 |
| 30°-40° | 5668.8 | 12.0 |
| 40°-50° | 8849.9 | 18.7 |
| 50°-60° | 13681.8 | 28.9 |
| 60°-70° | 11797.6 | 24.9 |
| 70°-80° | 1337.0 | 2.8 |
| 80°-90° | 160.2 | 0.3 |
| 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° | 47291.1 | 100.0 |
| 0°-180° | 47291.1 | 100.0 |

Coefficient of Utilization

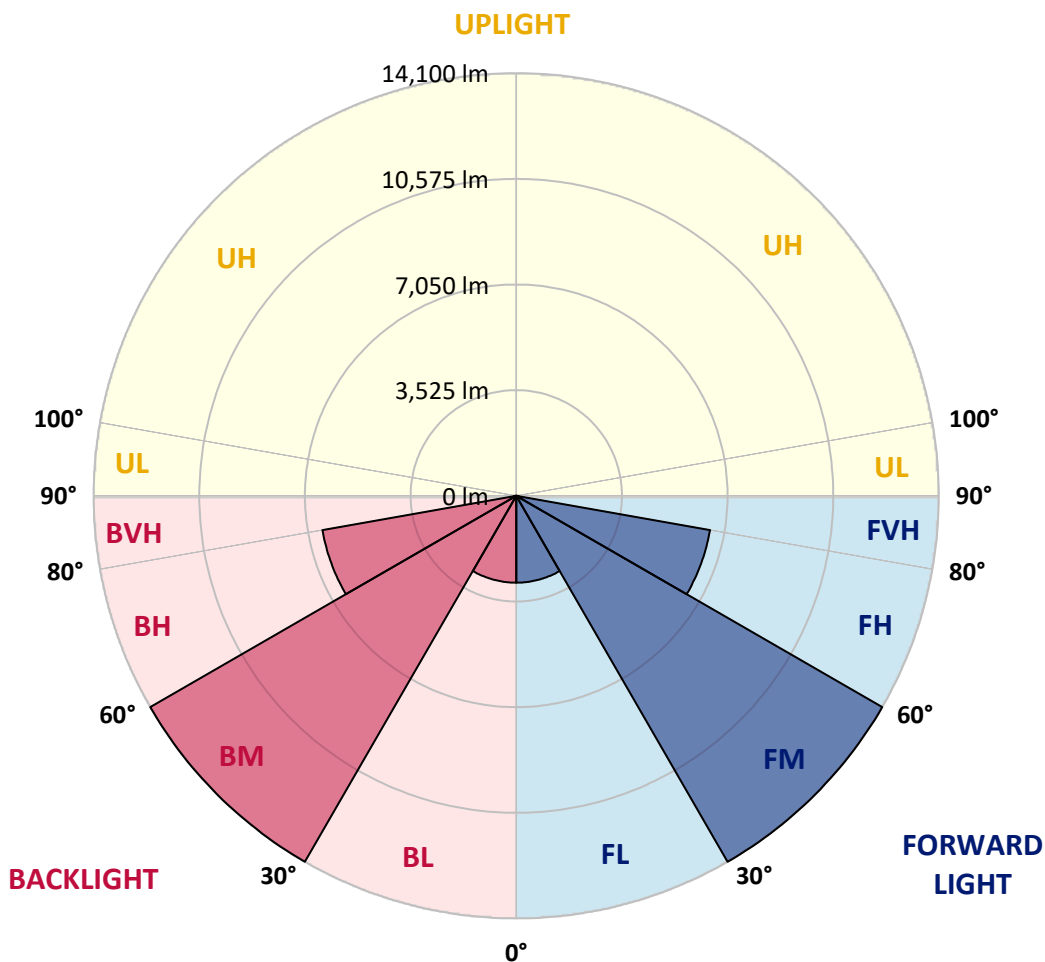


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2897.9 | 6.1 | | | |
| FM (30°-60°) | 14100.2 | 29.8 | | | |
| FH (60°-80°) | 6567.3 | 13.9 | | | G3/7500 |
| FVH (80°-90°) | 80.1 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2897.9 | 6.1 | B4/5000 | | |
| BM (30°-60°) | 14100.2 | 29.8 | B5 | | |
| BH (60°-80°) | 6567.3 | 13.9 | B5 | | G3/7500 |
| BVH (80°-90°) | 80.1 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5715.9 | 5715.9 | 5715.9 | 5715.9 | 5715.9 | 5715.9 | 5715.9 | 5715.9 | 5715.9 | 5715.9 | 5715.9 |
| 2.5° | 5738.5 | 5751.0 | 5741.0 | 5738.5 | 5736.0 | 5736.0 | 5736.0 | 5738.5 | 5748.5 | 5756.0 | 5751.0 |
| 5° | 5811.1 | 5821.1 | 5816.1 | 5813.6 | 5811.1 | 5813.6 | 5808.6 | 5806.1 | 5813.6 | 5813.6 | 5811.1 |
| 7.5° | 5901.3 | 5913.8 | 5908.8 | 5913.8 | 5916.4 | 5918.8 | 5906.3 | 5896.3 | 5893.7 | 5901.3 | 5896.3 |
| 10° | 6024.0 | 6034.0 | 6036.5 | 6039.1 | 6044.0 | 6041.6 | 6026.5 | 6008.9 | 6006.5 | 6004.0 | 6001.5 |
| 12.5° | 6161.8 | 6169.3 | 6171.8 | 6181.9 | 6189.3 | 6191.9 | 6174.3 | 6159.2 | 6134.3 | 6139.2 | 6129.2 |
| 15° | 6317.1 | 6332.1 | 6329.6 | 6344.6 | 6364.7 | 6369.6 | 6352.2 | 6327.1 | 6304.6 | 6292.0 | 6284.5 |
| 17.5° | 6507.4 | 6517.5 | 6512.5 | 6527.5 | 6552.5 | 6565.0 | 6550.0 | 6517.5 | 6494.9 | 6467.4 | 6452.3 |
| 20° | 6732.9 | 6750.4 | 6755.4 | 6755.4 | 6778.0 | 6790.5 | 6767.9 | 6757.9 | 6722.9 | 6702.9 | 6690.3 |
| 22.5° | 6988.4 | 6995.9 | 7010.9 | 7026.0 | 7048.5 | 7043.5 | 7036.0 | 7020.9 | 6988.4 | 6970.8 | 6950.8 |
| 25° | 7276.4 | 7283.9 | 7321.5 | 7354.0 | 7361.6 | 7356.6 | 7346.6 | 7339.1 | 7309.0 | 7268.9 | 7253.9 |
| 27.5° | 7612.1 | 7627.1 | 7677.2 | 7707.3 | 7707.3 | 7709.7 | 7689.7 | 7714.7 | 7649.7 | 7602.1 | 7597.0 |
| 30° | 8032.9 | 8042.9 | 8085.5 | 8115.5 | 8100.5 | 8088.0 | 8082.9 | 8108.0 | 8037.9 | 7952.7 | 7932.6 |
| 32.5° | 8448.7 | 8483.8 | 8521.3 | 8586.4 | 8533.8 | 8511.3 | 8506.3 | 8523.8 | 8443.6 | 8348.4 | 8320.9 |
| 35° | 8894.5 | 8919.6 | 8989.7 | 9044.8 | 8997.2 | 8944.6 | 8967.2 | 9022.2 | 8927.0 | 8799.3 | 8794.3 |
| 37.5° | 9387.9 | 9410.5 | 9500.7 | 9558.3 | 9523.2 | 9433.0 | 9470.6 | 9535.8 | 9440.6 | 9282.7 | 9250.2 |
| 40° | 9901.4 | 9949.0 | 10061.7 | 10121.9 | 10064.2 | 9944.0 | 10014.1 | 10084.3 | 9999.2 | 9816.2 | 9743.7 |
| 42.5° | 10477.5 | 10552.7 | 10715.5 | 10745.5 | 10635.4 | 10472.6 | 10595.3 | 10707.9 | 10647.8 | 10437.5 | 10409.9 |
| 45° | 11151.3 | 11196.4 | 11396.8 | 11461.9 | 11309.1 | 11106.2 | 11259.1 | 11464.4 | 11419.4 | 11176.4 | 11123.7 |
| 47.5° | 11905.3 | 11947.8 | 12155.7 | 12253.5 | 12060.5 | 11787.5 | 12063.1 | 12331.1 | 12303.5 | 12043.0 | 12018.0 |
| 50° | 12797.0 | 12807.0 | 13095.0 | 13205.2 | 13012.4 | 12776.9 | 13022.4 | 13355.5 | 13245.3 | 12912.2 | 12907.2 |
| 52.5° | 13773.8 | 13786.3 | 14149.6 | 14362.4 | 14254.8 | 13989.3 | 14279.8 | 14482.7 | 14202.1 | 13766.3 | 13733.8 |
| 55° | 14620.4 | 14683.1 | 15179.0 | 15745.1 | 15892.9 | 15700.0 | 15787.7 | 15692.5 | 15001.2 | 14390.0 | 14294.8 |
| 57.5° | 14966.1 | 15088.8 | 15842.8 | 16899.8 | 17861.7 | 18147.2 | 17470.9 | 16564.2 | 15319.3 | 14455.1 | 14362.4 |
| 60° | 14122.0 | 14254.8 | 15424.4 | 17430.8 | 19885.5 | 21125.4 | 19224.3 | 16711.9 | 14595.4 | 13380.6 | 13235.3 |
| 62.5° | 11309.1 | 11346.7 | 13067.5 | 16180.9 | 21065.3 | 24276.4 | 19963.2 | 15452.0 | 12488.8 | 10838.2 | 10780.6 |
| 64° | 8138.0 | 8523.8 | 10347.2 | 14187.1 | 20549.2 | 25476.2 | 19537.4 | 13686.2 | 10144.4 | 8473.7 | 8203.2 |
| 65° | 6086.7 | 6191.9 | 8341.0 | 12115.7 | 19640.0 | 25386.0 | 18710.7 | 11998.0 | 8401.1 | 6484.9 | 6184.3 |
| 67.5° | 2299.4 | 2311.9 | 3078.4 | 6039.1 | 13981.7 | 21841.8 | 14279.8 | 6527.5 | 3539.3 | 2559.9 | 2467.2 |
| 70° | 954.3 | 971.9 | 1129.6 | 2031.4 | 6008.9 | 14024.3 | 6885.7 | 2354.5 | 1295.0 | 1049.5 | 1034.5 |
| 72.5° | 698.9 | 708.9 | 756.5 | 901.7 | 1848.5 | 5758.5 | 2264.3 | 999.4 | 758.9 | 678.8 | 671.3 |
| 75° | 548.6 | 553.5 | 588.6 | 663.8 | 861.7 | 1595.5 | 941.8 | 686.3 | 578.6 | 521.0 | 516.0 |
| 77.5° | 418.3 | 430.8 | 455.9 | 505.9 | 578.6 | 756.5 | 623.7 | 513.5 | 445.8 | 398.3 | 390.7 |
| 80° | 288.0 | 303.1 | 350.7 | 370.7 | 388.2 | 491.0 | 425.8 | 388.2 | 348.2 | 290.6 | 273.0 |
| 82.5° | 177.9 | 187.9 | 235.5 | 253.0 | 245.5 | 275.5 | 273.0 | 278.0 | 248.0 | 180.3 | 167.8 |
| 85° | 92.7 | 97.7 | 127.7 | 132.8 | 122.7 | 112.7 | 140.3 | 162.8 | 152.8 | 102.7 | 100.2 |
| 87.5° | 20.0 | 22.5 | 27.6 | 25.1 | 27.6 | 27.6 | 35.1 | 52.6 | 55.1 | 35.1 | 32.5 |
| 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)