

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: P316772

Luminaire Tested: **GAN-SA8C-730-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316772
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-730-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53250 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

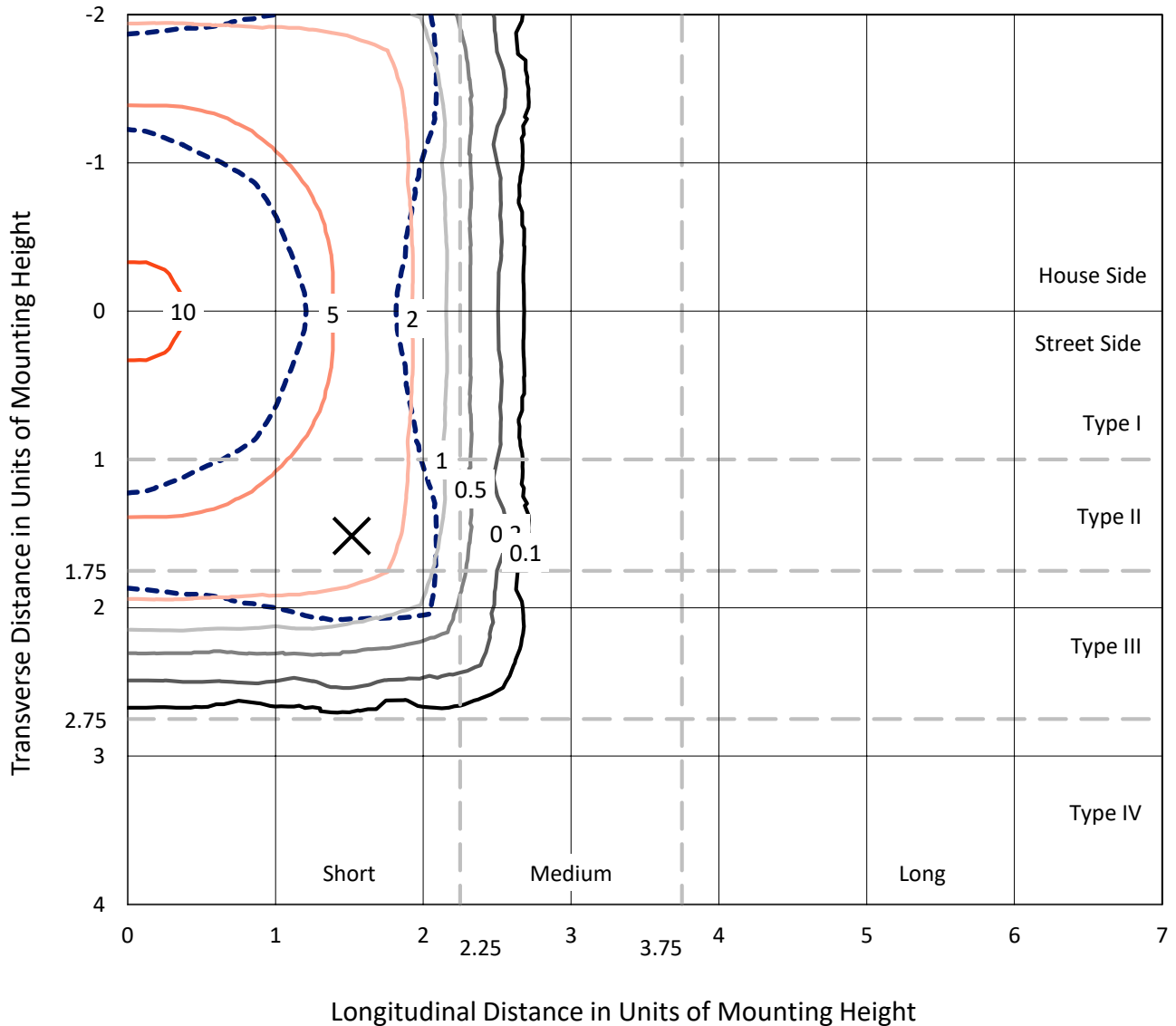
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P316772
 CATALOG NUMBER: GAN-SA8C-730-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

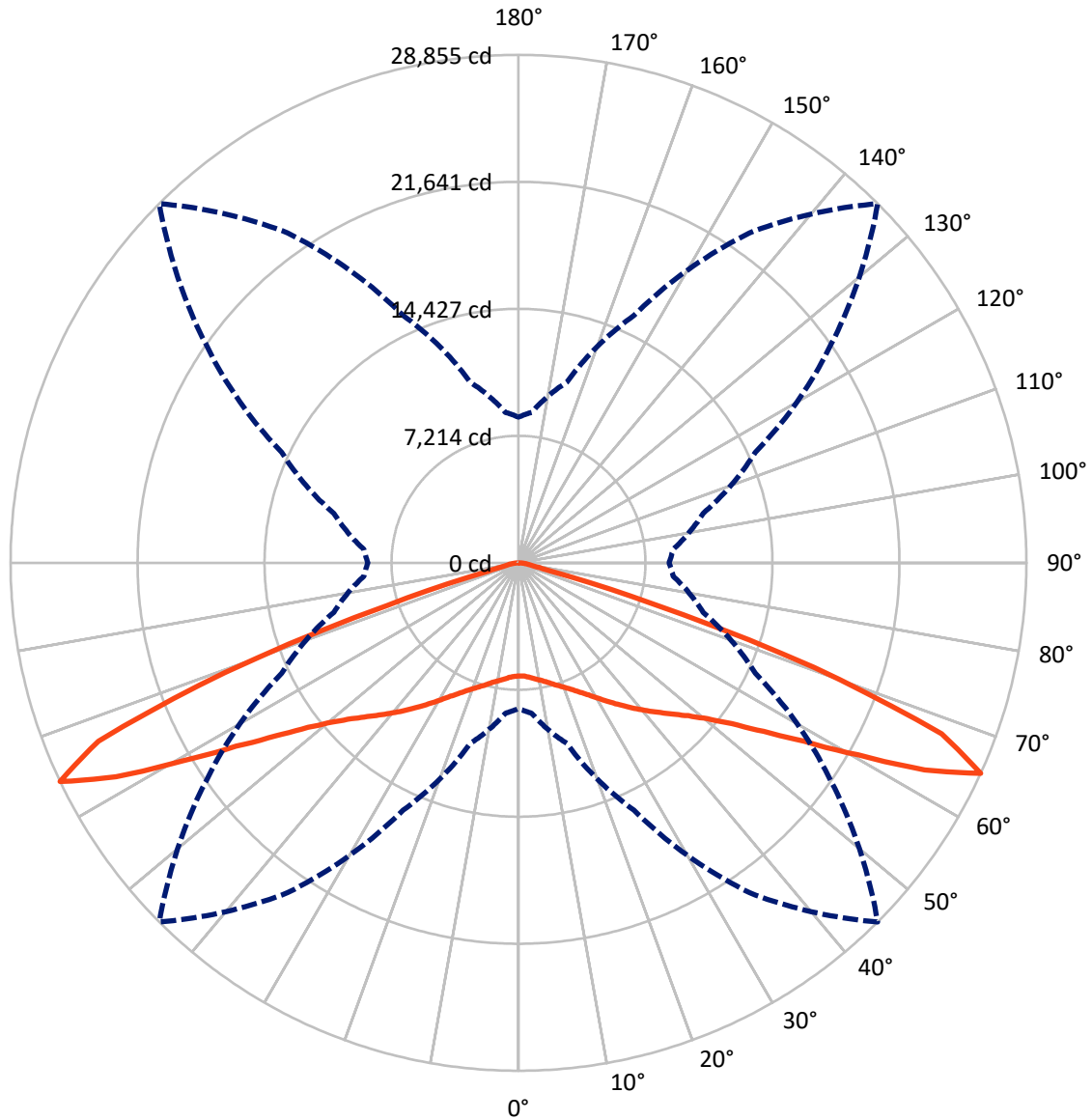
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type V - Short - N/A

REPORT NUMBER: P316772
CATALOG NUMBER: GAN-SA8C-730-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P316772
 CATALOG NUMBER: GAN-SA8C-730-U-5NQ

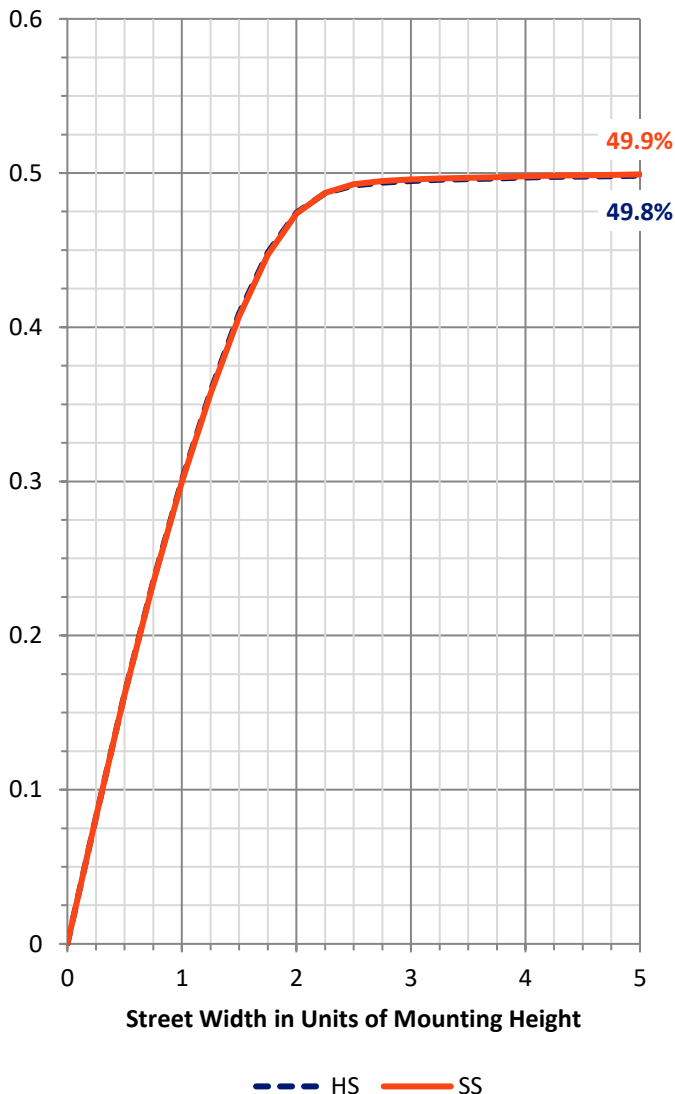
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 26625.0 | 0.0 | 26625.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 26625.0 | 0.0 | 26625.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 53250.0 | 0.0 | 53250.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 630.9 | 1.2 |
| 10°-20° | 2028.0 | 3.8 |
| 20°-30° | 3804.9 | 7.1 |
| 30°-40° | 6292.5 | 11.8 |
| 40°-50° | 9746.2 | 18.3 |
| 50°-60° | 14948.0 | 28.1 |
| 60°-70° | 13948.1 | 26.2 |
| 70°-80° | 1623.4 | 3.0 |
| 80°-90° | 228.1 | 0.4 |
| 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° | 53250.0 | 100.0 |
| 0°-180° | 53250.0 | 100.0 |

Coefficient of Utilization



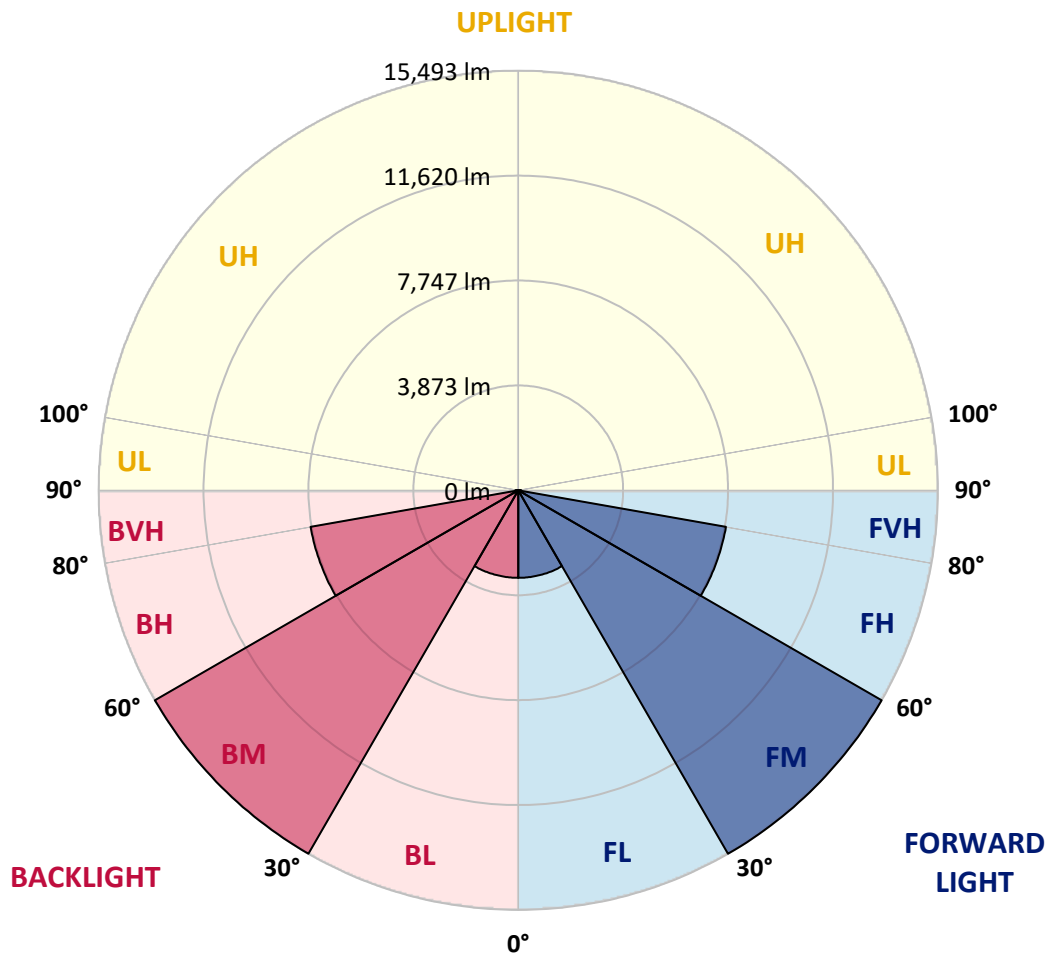
REPORT NUMBER: P316772
 CATALOG NUMBER: GAN-SA8C-730-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3231.9 | 6.1 | | | |
| FM (30°-60°) | 15493.3 | 29.1 | | | |
| FH (60°-80°) | 7785.7 | 14.6 | | | G4/12000 |
| FVH (80°-90°) | 114.1 | 0.2 | | | G2/225 |
| BL (0°-30°) | 3231.9 | 6.1 | B4/5000 | | |
| BM (30°-60°) | 15493.3 | 29.1 | B5 | | |
| BH (60°-80°) | 7785.7 | 14.6 | B5 | | G4/12000 |
| BVH (80°-90°) | 114.1 | 0.2 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G4

Type V Short





REPORT NUMBER: P316772
 CATALOG NUMBER: GAN-SA8C-730-U-5NQ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6430.6 | 6430.6 | 6430.6 | 6430.6 | 6430.6 | 6430.6 | 6430.6 | 6430.6 | 6430.6 | 6430.6 | 6430.6 |
| 2.5° | 6451.8 | 6448.3 | 6451.8 | 6453.6 | 6443.0 | 6448.3 | 6446.5 | 6455.4 | 6458.9 | 6455.4 | 6455.4 |
| 5° | 6526.1 | 6520.8 | 6527.8 | 6536.7 | 6522.5 | 6526.1 | 6520.8 | 6531.4 | 6534.9 | 6527.8 | 6533.1 |
| 7.5° | 6628.6 | 6630.4 | 6637.4 | 6653.3 | 6644.5 | 6651.6 | 6641.0 | 6642.7 | 6641.0 | 6630.4 | 6632.1 |
| 10° | 6739.9 | 6741.7 | 6754.1 | 6775.3 | 6778.8 | 6778.8 | 6771.8 | 6766.5 | 6759.4 | 6752.3 | 6754.1 |
| 12.5° | 6874.3 | 6883.1 | 6892.0 | 6918.5 | 6918.5 | 6932.6 | 6929.1 | 6914.9 | 6902.6 | 6892.0 | 6892.0 |
| 15° | 7056.4 | 7054.6 | 7065.2 | 7091.7 | 7104.1 | 7127.1 | 7127.1 | 7107.6 | 7091.7 | 7081.1 | 7077.6 |
| 17.5° | 7247.3 | 7252.6 | 7259.6 | 7291.4 | 7310.9 | 7337.4 | 7340.9 | 7325.0 | 7314.4 | 7300.3 | 7291.4 |
| 20° | 7470.0 | 7478.8 | 7507.1 | 7519.5 | 7537.1 | 7561.9 | 7570.7 | 7567.2 | 7556.6 | 7549.5 | 7551.3 |
| 22.5° | 7729.8 | 7752.8 | 7770.5 | 7788.1 | 7809.4 | 7827.0 | 7835.9 | 7848.2 | 7837.6 | 7832.3 | 7828.8 |
| 25° | 8044.5 | 8060.4 | 8095.7 | 8127.5 | 8141.7 | 8147.0 | 8157.6 | 8175.3 | 8173.5 | 8161.1 | 8161.1 |
| 27.5° | 8401.5 | 8431.6 | 8475.8 | 8521.7 | 8521.7 | 8504.0 | 8539.4 | 8569.4 | 8558.8 | 8542.9 | 8521.7 |
| 30° | 8834.6 | 8862.9 | 8914.1 | 8977.8 | 8945.9 | 8933.6 | 8981.3 | 9036.1 | 9020.2 | 8993.7 | 8990.1 |
| 32.5° | 9301.2 | 9327.7 | 9394.9 | 9463.9 | 9423.2 | 9405.5 | 9456.8 | 9536.3 | 9508.0 | 9455.0 | 9423.2 |
| 35° | 9806.8 | 9833.3 | 9928.7 | 10011.8 | 9942.9 | 9912.8 | 9955.3 | 10041.9 | 9992.4 | 9893.4 | 9868.6 |
| 37.5° | 10356.5 | 10370.6 | 10494.4 | 10579.2 | 10531.5 | 10452.0 | 10505.0 | 10568.6 | 10526.2 | 10406.0 | 10358.3 |
| 40° | 10927.4 | 10978.7 | 11121.9 | 11220.9 | 11137.8 | 11012.3 | 11100.7 | 11189.1 | 11125.4 | 10971.6 | 10890.3 |
| 42.5° | 11593.8 | 11632.7 | 11823.6 | 11912.0 | 11777.7 | 11600.9 | 11721.1 | 11841.3 | 11777.7 | 11629.2 | 11558.5 |
| 45° | 12286.7 | 12346.8 | 12574.9 | 12663.2 | 12468.8 | 12244.3 | 12391.0 | 12601.4 | 12596.1 | 12382.2 | 12308.0 |
| 47.5° | 13041.5 | 13101.6 | 13373.8 | 13490.5 | 13280.2 | 12979.7 | 13186.5 | 13483.4 | 13462.2 | 13227.1 | 13167.0 |
| 50° | 13913.0 | 13976.6 | 14316.0 | 14462.7 | 14266.5 | 13916.5 | 14227.6 | 14489.2 | 14450.3 | 14160.4 | 14165.7 |
| 52.5° | 15007.1 | 15003.6 | 15426.0 | 15680.6 | 15479.1 | 15169.7 | 15456.1 | 15710.6 | 15549.8 | 15148.5 | 15136.2 |
| 55° | 15965.2 | 16023.5 | 16546.7 | 17029.3 | 17016.9 | 16898.5 | 17013.4 | 17024.0 | 16564.4 | 16030.6 | 15965.2 |
| 57.5° | 16594.4 | 16705.8 | 17442.9 | 18316.1 | 18970.1 | 19127.4 | 18904.7 | 18229.5 | 17153.0 | 16299.3 | 16195.0 |
| 60° | 16207.3 | 16377.0 | 17534.8 | 19314.8 | 21241.5 | 22166.0 | 20909.2 | 18814.6 | 16695.2 | 15505.6 | 15364.2 |
| 62.5° | 13594.8 | 13881.1 | 15576.3 | 18832.3 | 23196.5 | 25899.2 | 22362.2 | 17876.0 | 14874.5 | 13236.0 | 12993.8 |
| 65° | 8279.5 | 8581.8 | 10625.2 | 15500.3 | 22880.1 | 28854.7 | 21699.3 | 14837.4 | 10856.7 | 8818.7 | 8557.1 |
| 67.5° | 2759.3 | 2847.6 | 4051.4 | 8567.7 | 17982.0 | 25925.7 | 18012.1 | 8882.3 | 4724.9 | 3132.2 | 3040.3 |
| 70° | 1080.0 | 1088.9 | 1285.1 | 2483.5 | 8491.7 | 17807.0 | 9370.2 | 2527.7 | 1343.4 | 1062.3 | 1085.3 |
| 72.5° | 793.7 | 797.2 | 852.0 | 1037.6 | 2213.1 | 7844.7 | 2292.6 | 1042.9 | 829.0 | 744.2 | 744.2 |
| 75° | 638.1 | 638.1 | 677.0 | 756.5 | 991.6 | 1799.4 | 1005.8 | 747.7 | 648.7 | 593.9 | 586.9 |
| 77.5° | 503.8 | 514.4 | 544.4 | 595.7 | 671.7 | 866.1 | 696.4 | 592.2 | 523.2 | 472.0 | 461.3 |
| 80° | 374.7 | 385.3 | 434.8 | 459.6 | 482.6 | 601.0 | 514.4 | 463.1 | 413.6 | 353.5 | 342.9 |
| 82.5° | 245.7 | 256.3 | 318.2 | 332.3 | 327.0 | 392.4 | 346.5 | 341.2 | 304.0 | 228.0 | 217.4 |
| 85° | 160.9 | 164.4 | 212.1 | 221.0 | 203.3 | 178.5 | 221.0 | 233.3 | 212.1 | 148.5 | 143.2 |
| 87.5° | 76.0 | 76.0 | 107.8 | 100.8 | 91.9 | 74.2 | 100.8 | 118.4 | 120.2 | 72.5 | 70.7 |
| 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)