

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: P532460

Luminaire Tested: **GLAN-SA7D-750-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7D-750-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47559 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

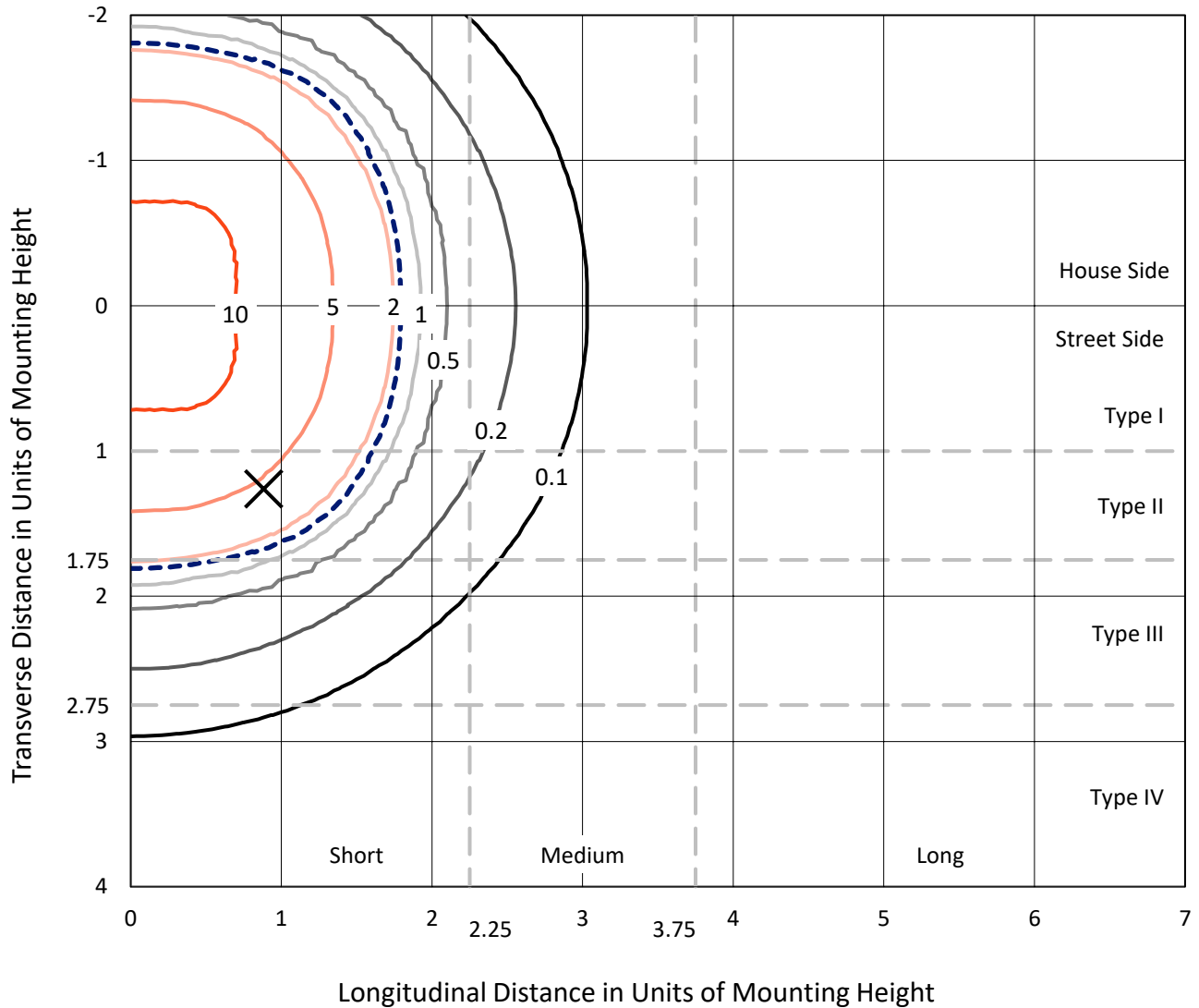
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

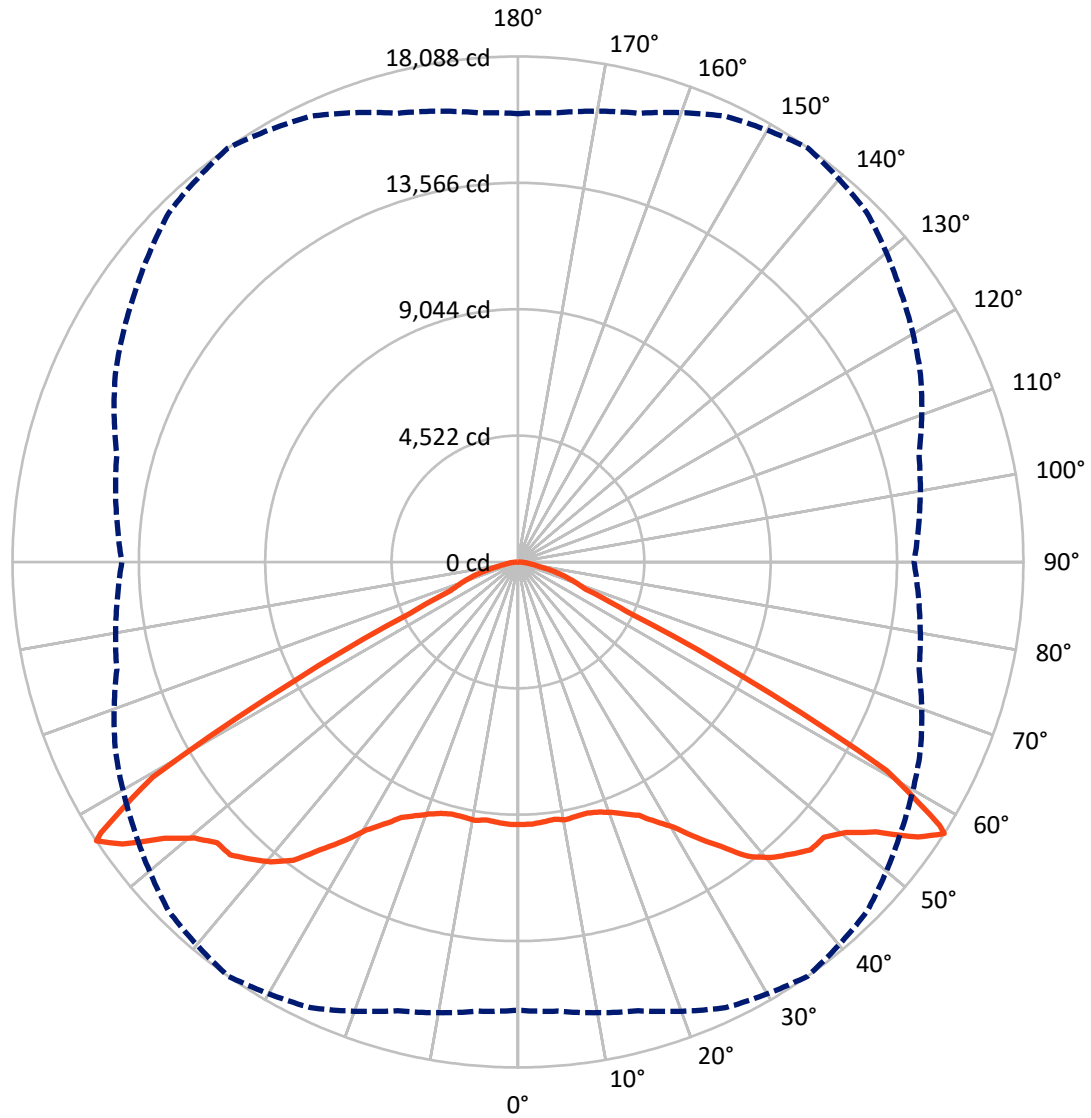
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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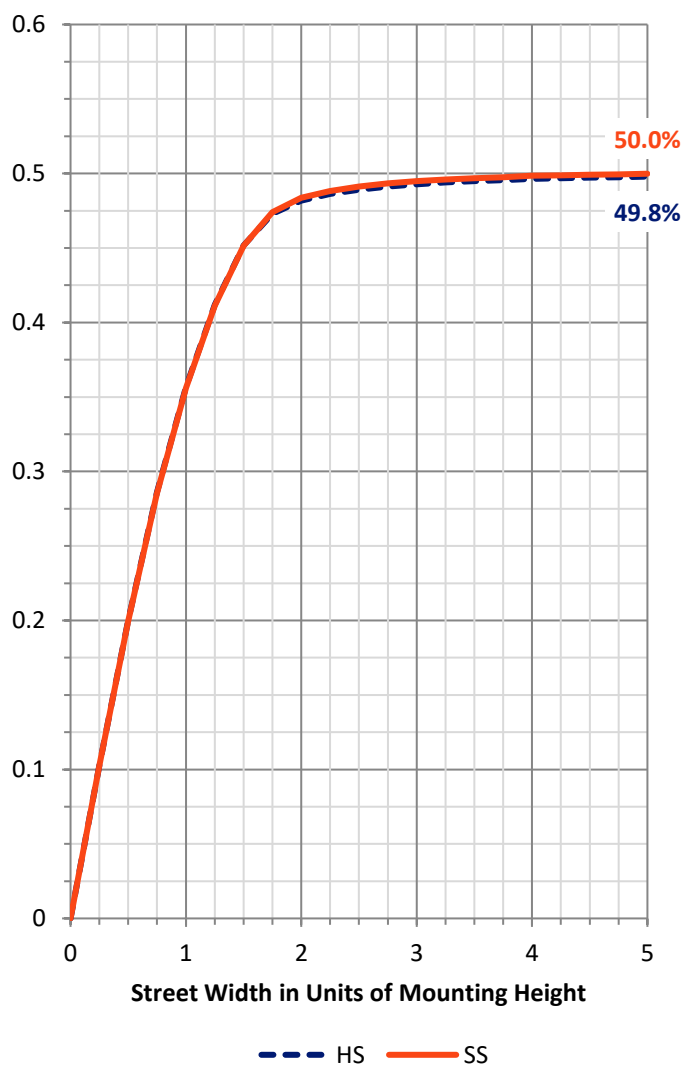
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 23779.5 | 0.0 | 23779.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 23779.5 | 0.0 | 23779.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 47559.0 | 0.0 | 47559.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 890.4 | 1.9 |
| 10°-20° | 2637.3 | 5.5 |
| 20°-30° | 4605.9 | 9.7 |
| 30°-40° | 7546.9 | 15.9 |
| 40°-50° | 11065.6 | 23.3 |
| 50°-60° | 13938.0 | 29.3 |
| 60°-70° | 5242.0 | 11.0 |
| 70°-80° | 1393.8 | 2.9 |
| 80°-90° | 239.0 | 0.5 |
| 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° | 47559.0 | 100.0 |
| 0°-180° | 47559.0 | 100.0 |

Coefficient of Utilization



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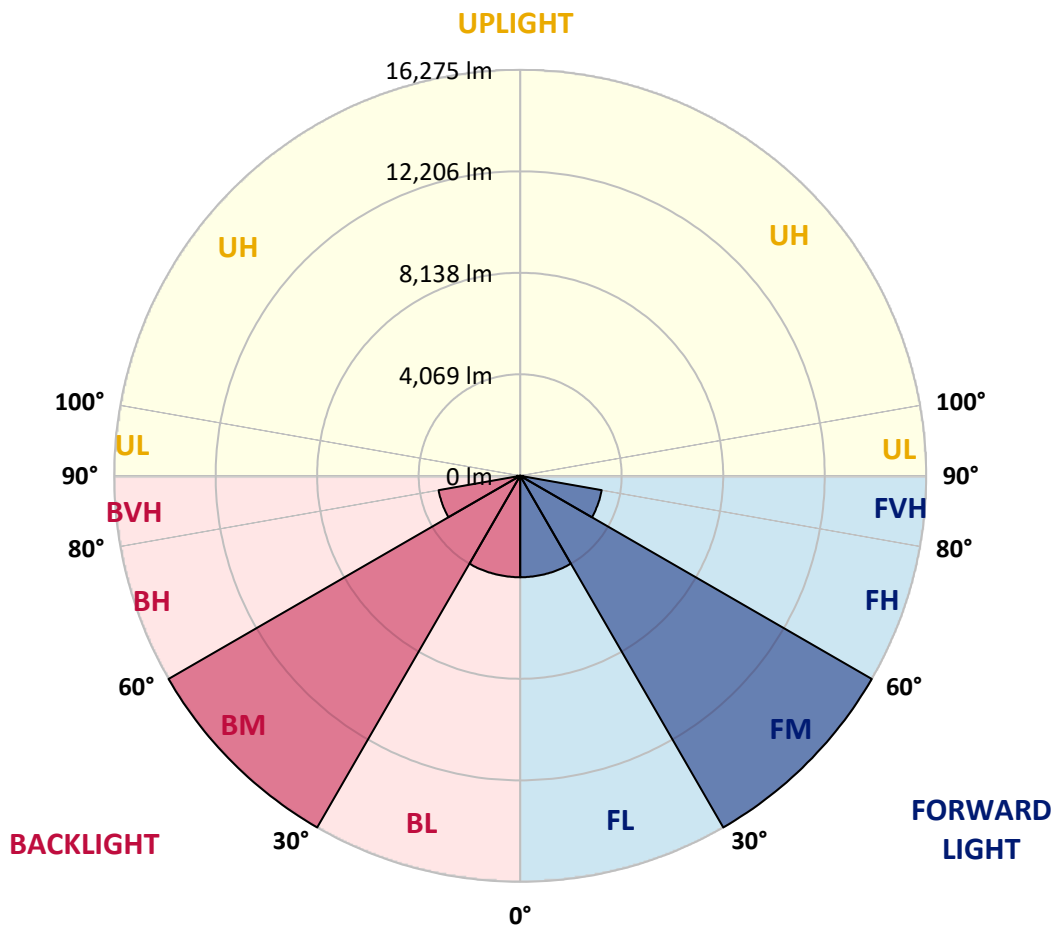
CATALOG NUMBER: GLAN-SA7D-750-U-5MQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4066.8 | 8.6 | | | |
| FM (30°-60°) | 16275.3 | 34.2 | | | |
| FH (60°-80°) | 3317.9 | 7.0 | | | G2/5000 |
| FVH (80°-90°) | 119.5 | 0.3 | | | G2/225 |
| BL (0°-30°) | 4066.8 | 8.6 | B4/5000 | | |
| BM (30°-60°) | 16275.3 | 34.2 | B5 | | |
| BH (60°-80°) | 3317.9 | 7.0 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 119.5 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9392.6 | 9392.6 | 9392.6 | 9392.6 | 9392.6 | 9392.6 | 9392.6 | 9392.6 | 9392.6 | 9392.6 | 9392.6 |
| 2.5° | 9345.7 | 9439.4 | 9398.4 | 9375.0 | 9392.6 | 9363.3 | 9316.4 | 9369.1 | 9357.4 | 9310.5 | 9292.9 |
| 5° | 9322.2 | 9392.6 | 9345.7 | 9392.6 | 9345.7 | 9427.7 | 9404.3 | 9316.4 | 9421.8 | 9322.2 | 9357.4 |
| 7.5° | 9304.7 | 9328.1 | 9339.8 | 9316.4 | 9298.8 | 9398.4 | 9345.7 | 9304.7 | 9246.1 | 9228.5 | 9257.8 |
| 10° | 9263.6 | 9322.2 | 9234.3 | 9351.5 | 9375.0 | 9304.7 | 9304.7 | 9228.5 | 9181.6 | 9152.3 | 9251.9 |
| 12.5° | 9369.1 | 9269.5 | 9257.8 | 9316.4 | 9334.0 | 9363.3 | 9281.2 | 9240.2 | 9152.3 | 9164.0 | 9146.5 |
| 15° | 9246.1 | 9287.1 | 9292.9 | 9304.7 | 9322.2 | 9392.6 | 9316.4 | 9228.5 | 9193.3 | 9070.3 | 9082.0 |
| 17.5° | 9292.9 | 9251.9 | 9292.9 | 9427.7 | 9404.3 | 9457.0 | 9375.0 | 9240.2 | 9158.2 | 9087.9 | 9181.6 |
| 20° | 9375.0 | 9357.4 | 9375.0 | 9539.0 | 9568.3 | 9615.2 | 9544.9 | 9421.8 | 9263.6 | 9181.6 | 9228.5 |
| 22.5° | 9462.9 | 9451.1 | 9462.9 | 9621.1 | 9791.0 | 9849.6 | 9779.3 | 9492.2 | 9410.1 | 9257.8 | 9205.1 |
| 25° | 9621.1 | 9632.8 | 9755.8 | 9931.6 | 10042.9 | 10154.3 | 10025.4 | 9820.3 | 9556.6 | 9462.9 | 9351.5 |
| 27.5° | 9972.6 | 10001.9 | 10072.2 | 10330.0 | 10523.4 | 10623.0 | 10441.4 | 10160.1 | 9996.1 | 9802.7 | 9773.4 |
| 30° | 10406.2 | 10406.2 | 10529.3 | 10751.9 | 11015.6 | 11167.9 | 10945.3 | 10611.3 | 10412.1 | 10306.6 | 10242.2 |
| 32.5° | 10980.4 | 10916.0 | 10962.9 | 11355.4 | 11765.6 | 11894.5 | 11595.7 | 11185.5 | 10869.1 | 10728.5 | 10681.6 |
| 35° | 11472.6 | 11513.6 | 11619.1 | 12041.0 | 12498.0 | 12796.8 | 12328.1 | 11794.9 | 11472.6 | 11343.7 | 11320.3 |
| 37.5° | 12111.3 | 12181.6 | 12234.3 | 12814.4 | 13365.2 | 13476.5 | 13025.4 | 12597.6 | 12205.0 | 12099.6 | 12041.0 |
| 40° | 13013.6 | 12966.8 | 12984.3 | 13412.1 | 13910.1 | 13980.4 | 13535.1 | 13230.4 | 12908.2 | 12843.7 | 12843.7 |
| 42.5° | 13757.8 | 13705.0 | 13763.6 | 13921.8 | 14302.7 | 14250.0 | 14003.9 | 13781.2 | 13646.4 | 13576.1 | 13646.4 |
| 45° | 14208.9 | 14197.2 | 14302.7 | 14419.9 | 14689.4 | 14513.6 | 14320.3 | 14355.4 | 14226.5 | 14109.3 | 14103.5 |
| 47.5° | 14701.1 | 14625.0 | 14753.9 | 14929.6 | 14724.6 | 14642.5 | 14630.8 | 14707.0 | 14666.0 | 14460.9 | 14396.4 |
| 50° | 14941.4 | 14912.1 | 15117.1 | 15322.2 | 15210.9 | 15023.4 | 15064.4 | 15187.5 | 14660.1 | 14384.7 | 14226.5 |
| 52.5° | 15585.9 | 15591.8 | 15984.3 | 16095.7 | 16048.8 | 15773.4 | 15861.3 | 15527.3 | 14906.2 | 14519.5 | 14537.1 |
| 55° | 16599.6 | 16558.5 | 16998.0 | 17326.1 | 17378.9 | 17027.3 | 16605.4 | 16136.7 | 15357.4 | 14964.8 | 14847.6 |
| 57° | 16042.9 | 16136.7 | 16623.0 | 17595.7 | 18087.8 | 17671.8 | 16751.9 | 15896.4 | 14859.3 | 14384.7 | 14173.8 |
| 57.5° | 15298.8 | 15451.1 | 16294.9 | 17273.4 | 17789.0 | 17753.9 | 16570.3 | 15451.1 | 14525.4 | 13787.1 | 13804.6 |
| 60° | 11209.0 | 11238.3 | 12000.0 | 13552.7 | 15164.0 | 15199.2 | 13757.8 | 12275.4 | 11244.1 | 10441.4 | 10552.7 |
| 62.5° | 5912.1 | 6046.9 | 6351.5 | 7599.6 | 8994.1 | 9334.0 | 8460.9 | 7699.2 | 6808.6 | 6199.2 | 6257.8 |
| 65° | 3128.9 | 3111.3 | 3257.8 | 3609.4 | 4294.9 | 4470.7 | 4353.5 | 3750.0 | 3439.4 | 3339.8 | 3345.7 |
| 67.5° | 2543.0 | 2572.3 | 2554.7 | 2572.3 | 2619.1 | 2695.3 | 2677.7 | 2701.2 | 2718.7 | 2748.0 | 2742.2 |
| 70° | 2156.2 | 2156.2 | 2168.0 | 2173.8 | 2173.8 | 2209.0 | 2250.0 | 2326.2 | 2332.0 | 2361.3 | 2373.0 |
| 72.5° | 1699.2 | 1687.5 | 1705.1 | 1746.1 | 1751.9 | 1781.2 | 1839.8 | 1886.7 | 1904.3 | 1904.3 | 1869.1 |
| 75° | 1154.3 | 1166.0 | 1189.4 | 1224.6 | 1259.8 | 1312.5 | 1359.4 | 1388.7 | 1400.4 | 1382.8 | 1365.2 |
| 77.5° | 650.4 | 662.1 | 679.7 | 732.4 | 773.4 | 820.3 | 873.0 | 902.3 | 931.6 | 937.5 | 902.3 |
| 80° | 386.7 | 386.7 | 416.0 | 457.0 | 503.9 | 550.8 | 597.7 | 632.8 | 644.5 | 644.5 | 627.0 |
| 82.5° | 234.4 | 240.2 | 263.7 | 304.7 | 345.7 | 375.0 | 416.0 | 445.3 | 468.7 | 462.9 | 451.2 |
| 85° | 123.0 | 123.0 | 146.5 | 181.6 | 210.9 | 240.2 | 240.2 | 222.7 | 210.9 | 181.6 | 169.9 |
| 87.5° | 41.0 | 35.2 | 46.9 | 46.9 | 41.0 | 46.9 | 46.9 | 52.7 | 52.7 | 52.7 | 52.7 |
| 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)