

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: P316992

Luminaire Tested: **GAN-SA8A-722-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316992
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-SA8A-722-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28321 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

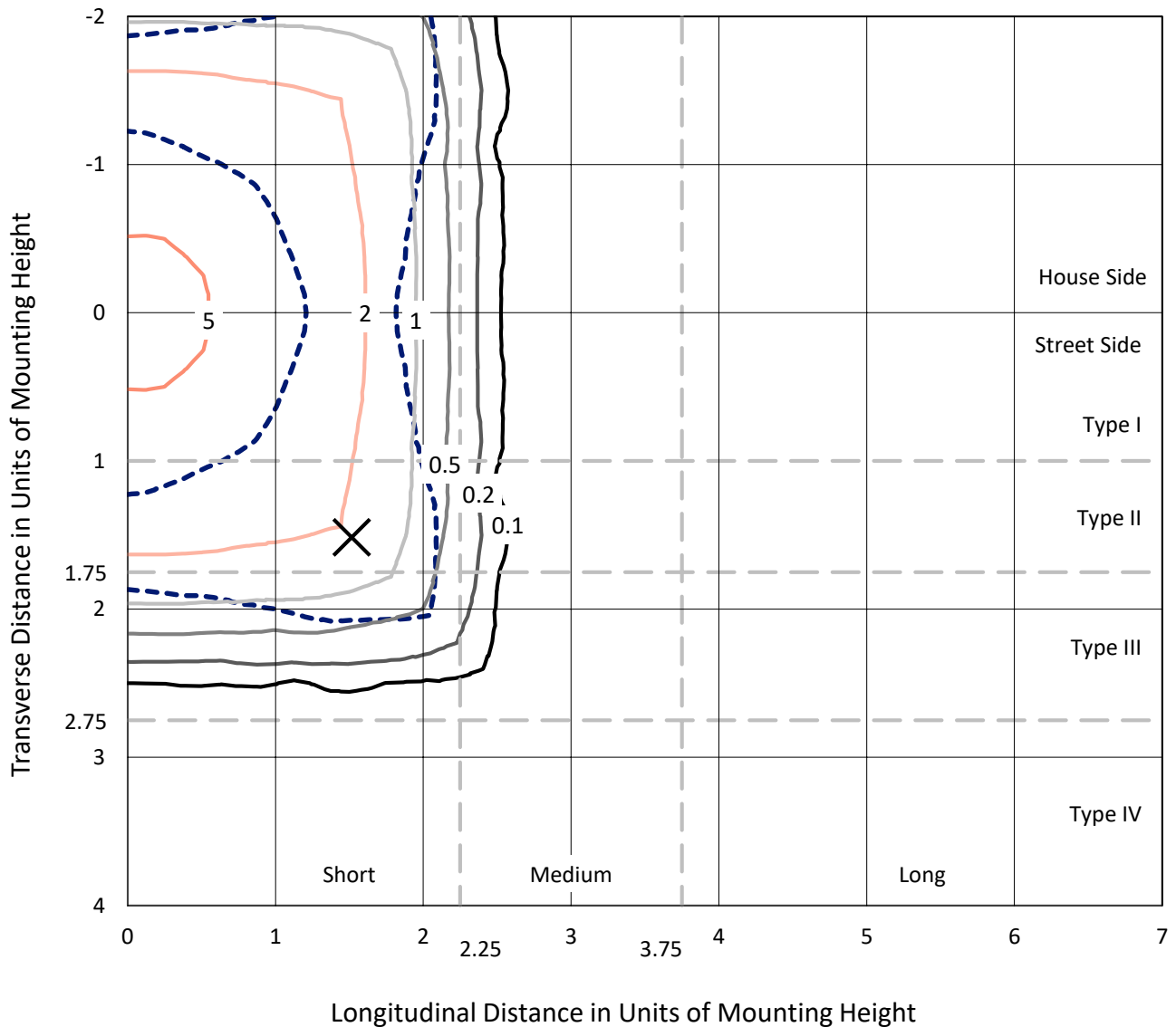
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

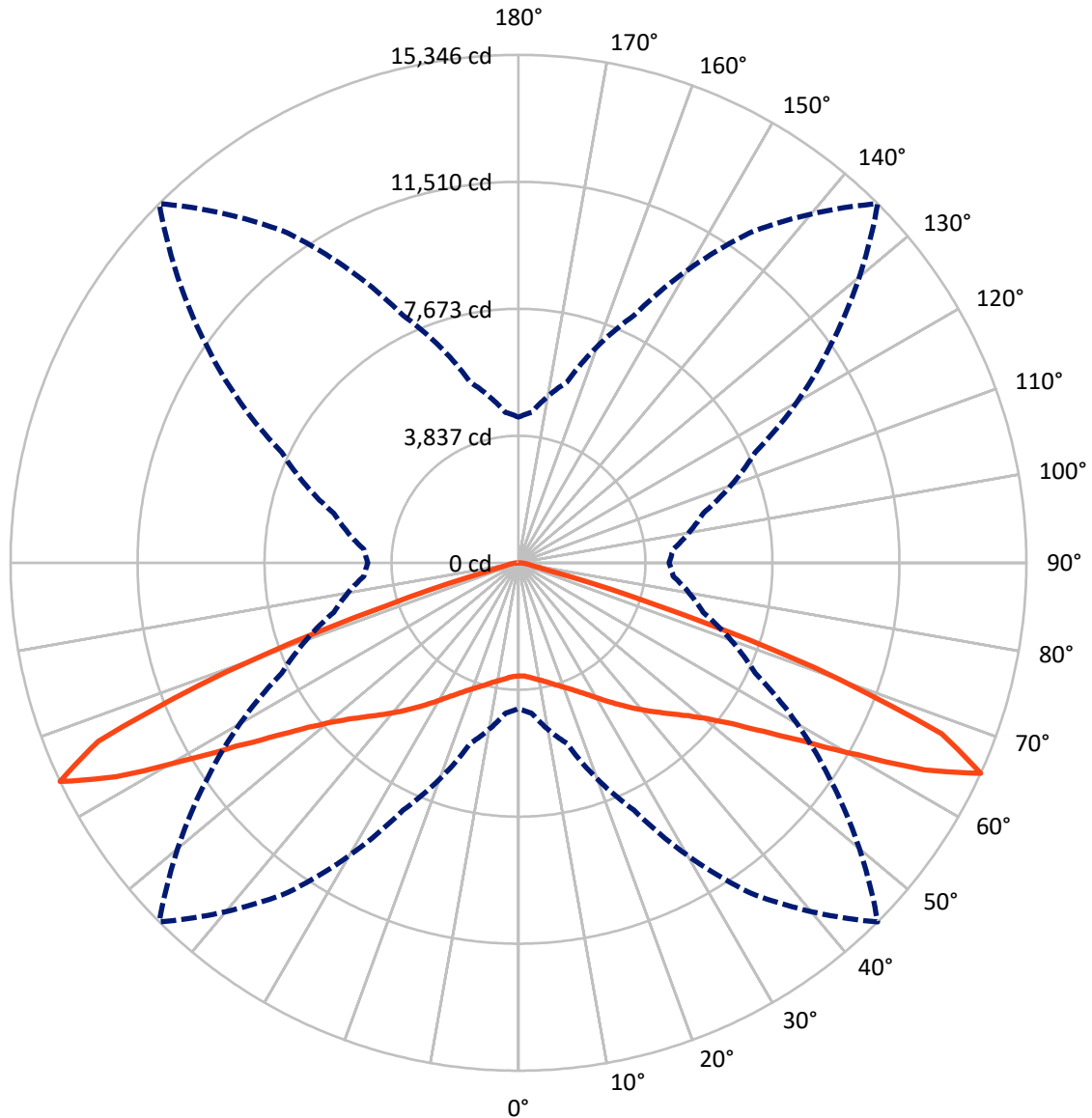
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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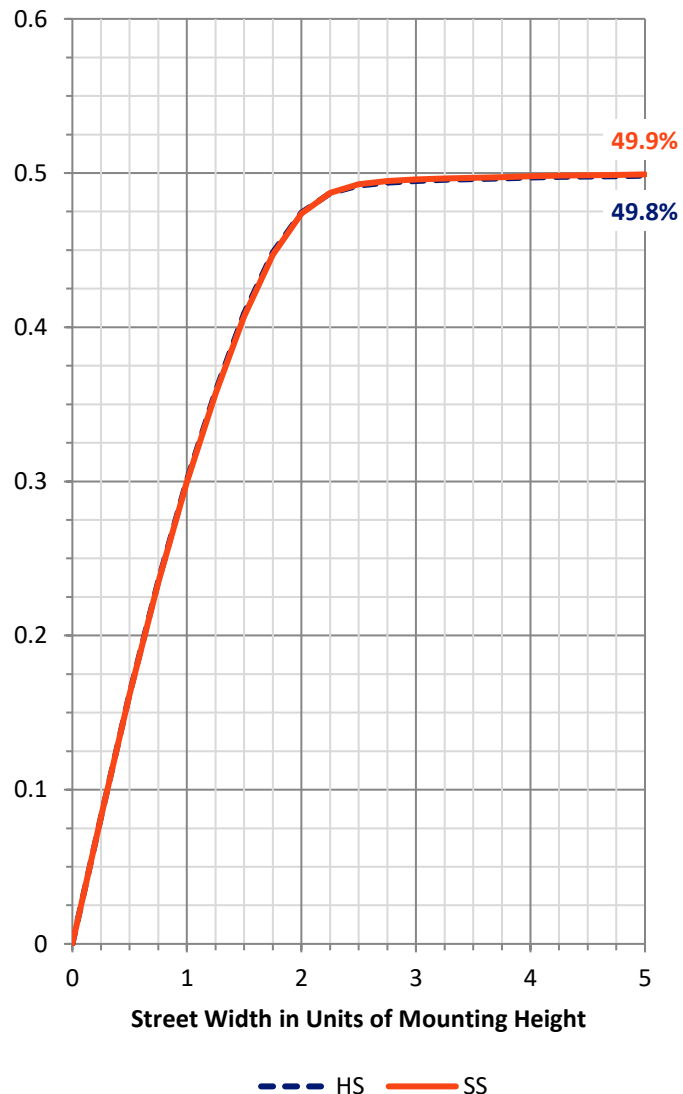
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 14160.5 | 0.0 | 14160.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 14160.5 | 0.0 | 14160.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 28321.0 | 0.0 | 28321.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 335.5 | 1.2 |
| 10°-20° | 1078.6 | 3.8 |
| 20°-30° | 2023.6 | 7.1 |
| 30°-40° | 3346.7 | 11.8 |
| 40°-50° | 5183.5 | 18.3 |
| 50°-60° | 7950.1 | 28.1 |
| 60°-70° | 7418.3 | 26.2 |
| 70°-80° | 863.4 | 3.0 |
| 80°-90° | 121.3 | 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° | 28321.0 | 100.0 |
| 0°-180° | 28321.0 | 100.0 |

Coefficient of Utilization

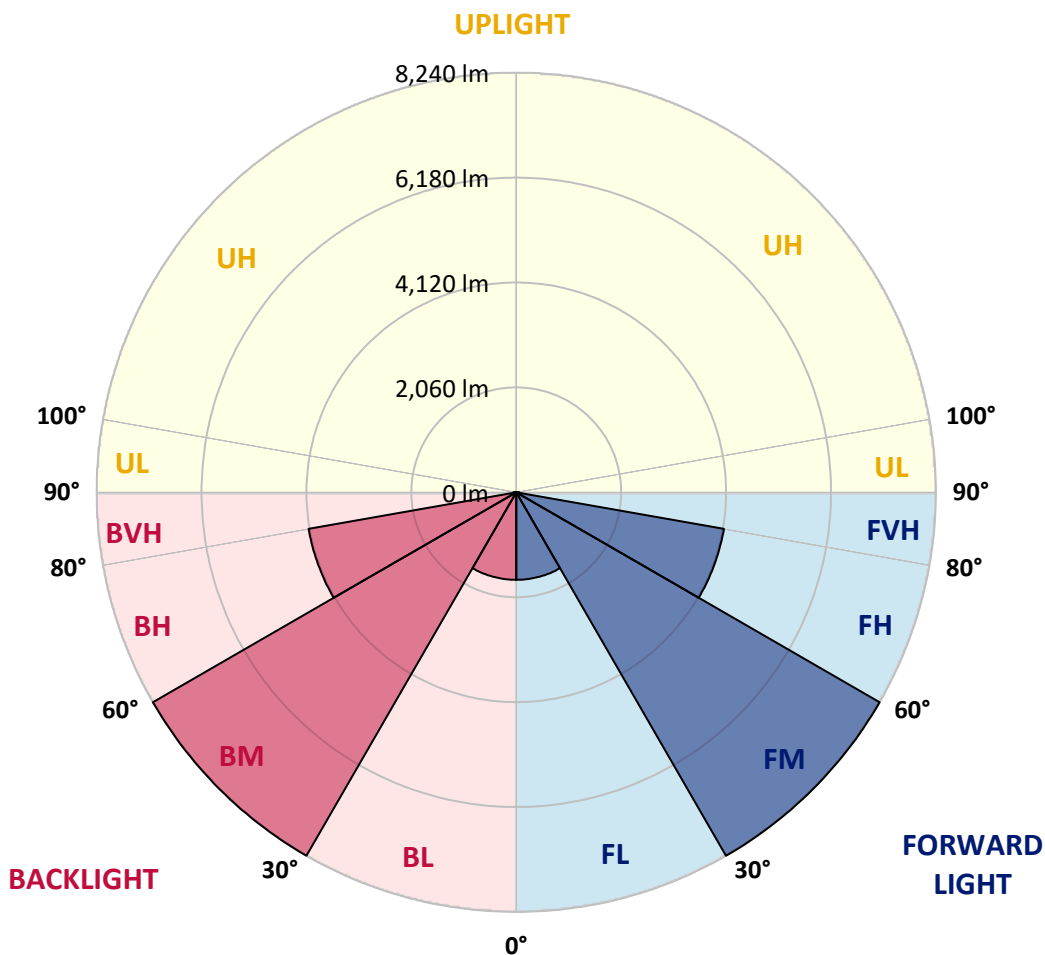


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1718.9 | 6.1 | | | |
| FM (30°-60°) | 8240.1 | 29.1 | | | |
| FH (60°-80°) | 4140.8 | 14.6 | | | G2/5000 |
| FVH (80°-90°) | 60.7 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1718.9 | 6.1 | B3/2500 | | |
| BM (30°-60°) | 8240.1 | 29.1 | B4/8500 | | |
| BH (60°-80°) | 4140.8 | 14.6 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 60.7 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 3420.1 | 3420.1 | 3420.1 | 3420.1 | 3420.1 | 3420.1 | 3420.1 | 3420.1 | 3420.1 | 3420.1 | 3420.1 |
| 2.5° | 3431.4 | 3429.5 | 3431.4 | 3432.3 | 3426.7 | 3429.5 | 3428.6 | 3433.3 | 3435.2 | 3433.3 | 3433.3 |
| 5° | 3470.9 | 3468.1 | 3471.8 | 3476.5 | 3469.0 | 3470.9 | 3468.1 | 3473.7 | 3475.6 | 3471.8 | 3474.6 |
| 7.5° | 3525.4 | 3526.4 | 3530.1 | 3538.6 | 3533.9 | 3537.6 | 3532.0 | 3532.9 | 3532.0 | 3526.4 | 3527.3 |
| 10° | 3584.6 | 3585.6 | 3592.2 | 3603.4 | 3605.3 | 3605.3 | 3601.6 | 3598.7 | 3595.0 | 3591.2 | 3592.2 |
| 12.5° | 3656.1 | 3660.8 | 3665.5 | 3679.6 | 3679.6 | 3687.1 | 3685.2 | 3677.7 | 3671.1 | 3665.5 | 3665.5 |
| 15° | 3752.9 | 3752.0 | 3757.6 | 3771.7 | 3778.3 | 3790.5 | 3790.5 | 3780.2 | 3771.7 | 3766.1 | 3764.2 |
| 17.5° | 3854.5 | 3857.3 | 3861.0 | 3878.0 | 3888.3 | 3902.4 | 3904.3 | 3895.8 | 3890.2 | 3882.7 | 3878.0 |
| 20° | 3972.9 | 3977.6 | 3992.6 | 3999.2 | 4008.6 | 4021.8 | 4026.5 | 4024.6 | 4019.0 | 4015.2 | 4016.1 |
| 22.5° | 4111.1 | 4123.3 | 4132.7 | 4142.1 | 4153.4 | 4162.8 | 4167.5 | 4174.1 | 4168.4 | 4165.6 | 4163.7 |
| 25° | 4278.4 | 4286.9 | 4305.7 | 4322.6 | 4330.1 | 4333.0 | 4338.6 | 4348.0 | 4347.1 | 4340.5 | 4340.5 |
| 27.5° | 4468.3 | 4484.3 | 4507.8 | 4532.3 | 4532.3 | 4522.9 | 4541.7 | 4557.7 | 4552.0 | 4543.6 | 4532.3 |
| 30° | 4698.7 | 4713.7 | 4741.0 | 4774.8 | 4757.9 | 4751.3 | 4776.7 | 4805.8 | 4797.4 | 4783.3 | 4781.4 |
| 32.5° | 4946.9 | 4961.0 | 4996.7 | 5033.3 | 5011.7 | 5002.3 | 5029.6 | 5071.9 | 5056.9 | 5028.6 | 5011.7 |
| 35° | 5215.7 | 5229.8 | 5280.6 | 5324.8 | 5288.1 | 5272.1 | 5294.7 | 5340.8 | 5314.4 | 5261.8 | 5248.6 |
| 37.5° | 5508.1 | 5515.6 | 5581.4 | 5626.6 | 5601.2 | 5558.9 | 5587.1 | 5620.9 | 5598.4 | 5534.4 | 5509.0 |
| 40° | 5811.8 | 5839.0 | 5915.2 | 5967.8 | 5923.6 | 5856.9 | 5903.9 | 5950.9 | 5917.1 | 5835.3 | 5792.0 |
| 42.5° | 6166.2 | 6186.9 | 6288.4 | 6335.4 | 6264.0 | 6169.9 | 6233.9 | 6297.8 | 6264.0 | 6185.0 | 6147.4 |
| 45° | 6534.7 | 6566.7 | 6687.9 | 6734.9 | 6631.5 | 6512.1 | 6590.2 | 6702.0 | 6699.2 | 6585.5 | 6546.0 |
| 47.5° | 6936.1 | 6968.1 | 7112.9 | 7174.9 | 7063.0 | 6903.2 | 7013.2 | 7171.2 | 7159.9 | 7034.8 | 7002.9 |
| 50° | 7399.6 | 7433.4 | 7613.9 | 7692.0 | 7587.6 | 7401.5 | 7566.9 | 7706.1 | 7685.4 | 7531.2 | 7534.0 |
| 52.5° | 7981.5 | 7979.7 | 8204.3 | 8339.7 | 8232.5 | 8068.0 | 8220.3 | 8355.7 | 8270.1 | 8056.7 | 8050.2 |
| 55° | 8491.1 | 8522.1 | 8800.4 | 9057.0 | 9050.4 | 8987.4 | 9048.6 | 9054.2 | 8809.8 | 8525.9 | 8491.1 |
| 57.5° | 8825.8 | 8885.0 | 9277.0 | 9741.4 | 10089.3 | 10172.9 | 10054.5 | 9695.4 | 9122.8 | 8668.8 | 8613.3 |
| 60° | 8619.9 | 8710.1 | 9325.9 | 10272.6 | 11297.3 | 11789.0 | 11120.6 | 10006.5 | 8879.3 | 8246.6 | 8171.4 |
| 62.5° | 7230.4 | 7382.7 | 8284.2 | 10015.9 | 12337.1 | 13774.5 | 11893.3 | 9507.3 | 7911.0 | 7039.5 | 6910.7 |
| 65° | 4403.5 | 4564.2 | 5651.0 | 8243.8 | 12168.8 | 15346.4 | 11540.8 | 7891.3 | 5774.2 | 4690.2 | 4551.1 |
| 67.5° | 1467.5 | 1514.5 | 2154.7 | 4556.7 | 9563.7 | 13788.6 | 9579.7 | 4724.1 | 2512.9 | 1665.9 | 1617.0 |
| 70° | 574.4 | 579.1 | 683.5 | 1320.9 | 4516.3 | 9470.7 | 4983.5 | 1344.4 | 714.5 | 565.0 | 577.2 |
| 72.5° | 422.1 | 424.0 | 453.1 | 551.8 | 1177.0 | 4172.2 | 1219.3 | 554.7 | 440.9 | 395.8 | 395.8 |
| 75° | 339.4 | 339.4 | 360.1 | 402.4 | 527.4 | 957.0 | 534.9 | 397.7 | 345.0 | 315.9 | 312.1 |
| 77.5° | 267.9 | 273.6 | 289.6 | 316.8 | 357.2 | 460.7 | 370.4 | 314.9 | 278.3 | 251.0 | 245.4 |
| 80° | 199.3 | 204.9 | 231.3 | 244.4 | 256.6 | 319.6 | 273.6 | 246.3 | 220.0 | 188.0 | 182.4 |
| 82.5° | 130.7 | 136.3 | 169.2 | 176.7 | 173.9 | 208.7 | 184.3 | 181.4 | 161.7 | 121.3 | 115.6 |
| 85° | 85.5 | 87.4 | 112.8 | 117.5 | 108.1 | 95.0 | 117.5 | 124.1 | 112.8 | 79.0 | 76.1 |
| 87.5° | 40.4 | 40.4 | 57.3 | 53.6 | 48.9 | 39.5 | 53.6 | 63.0 | 63.9 | 38.5 | 37.6 |
| 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)