

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: P648852

Luminaire Tested: **GLAN-SA4C-835-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4C-835-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19614.9 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

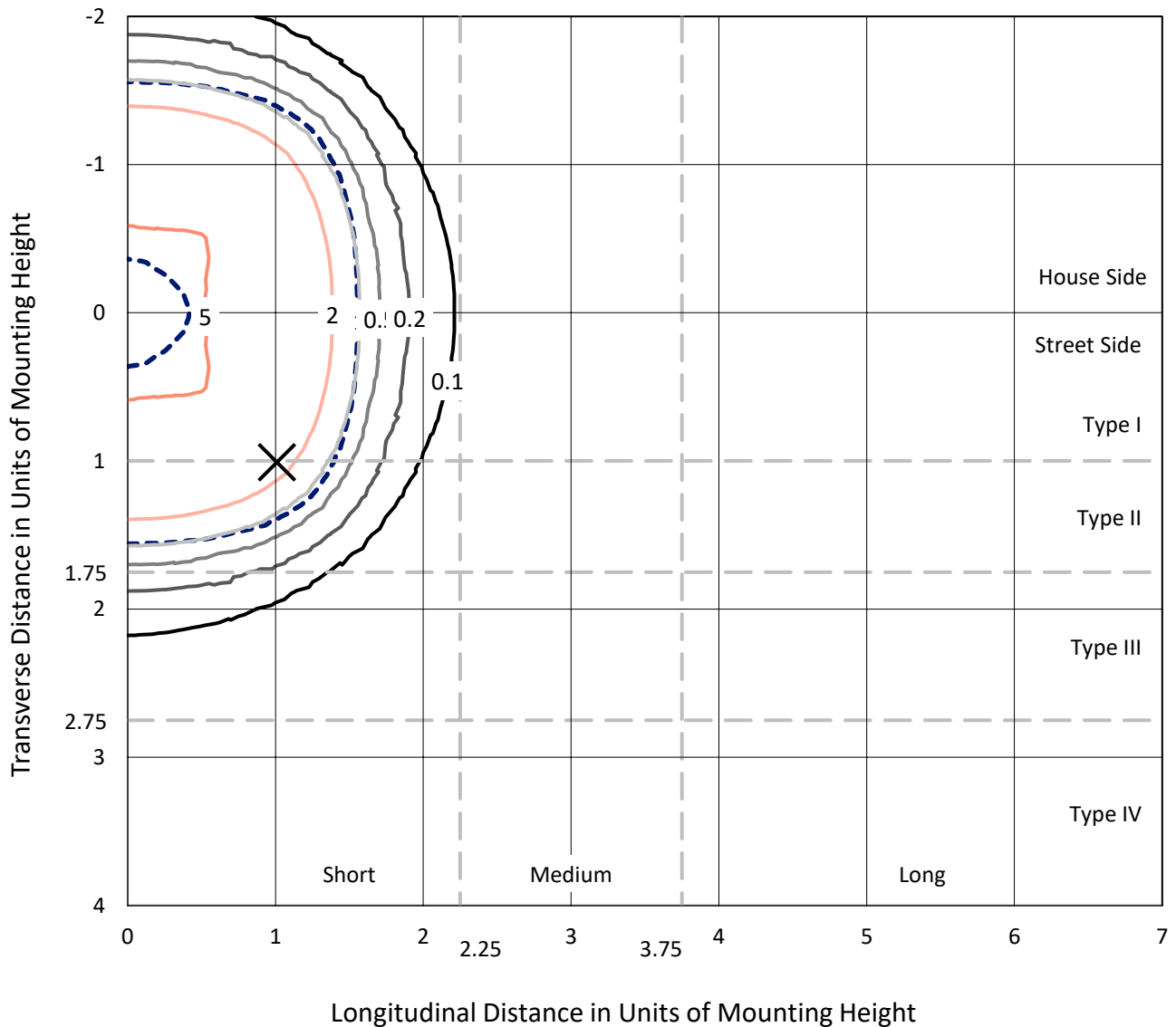
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

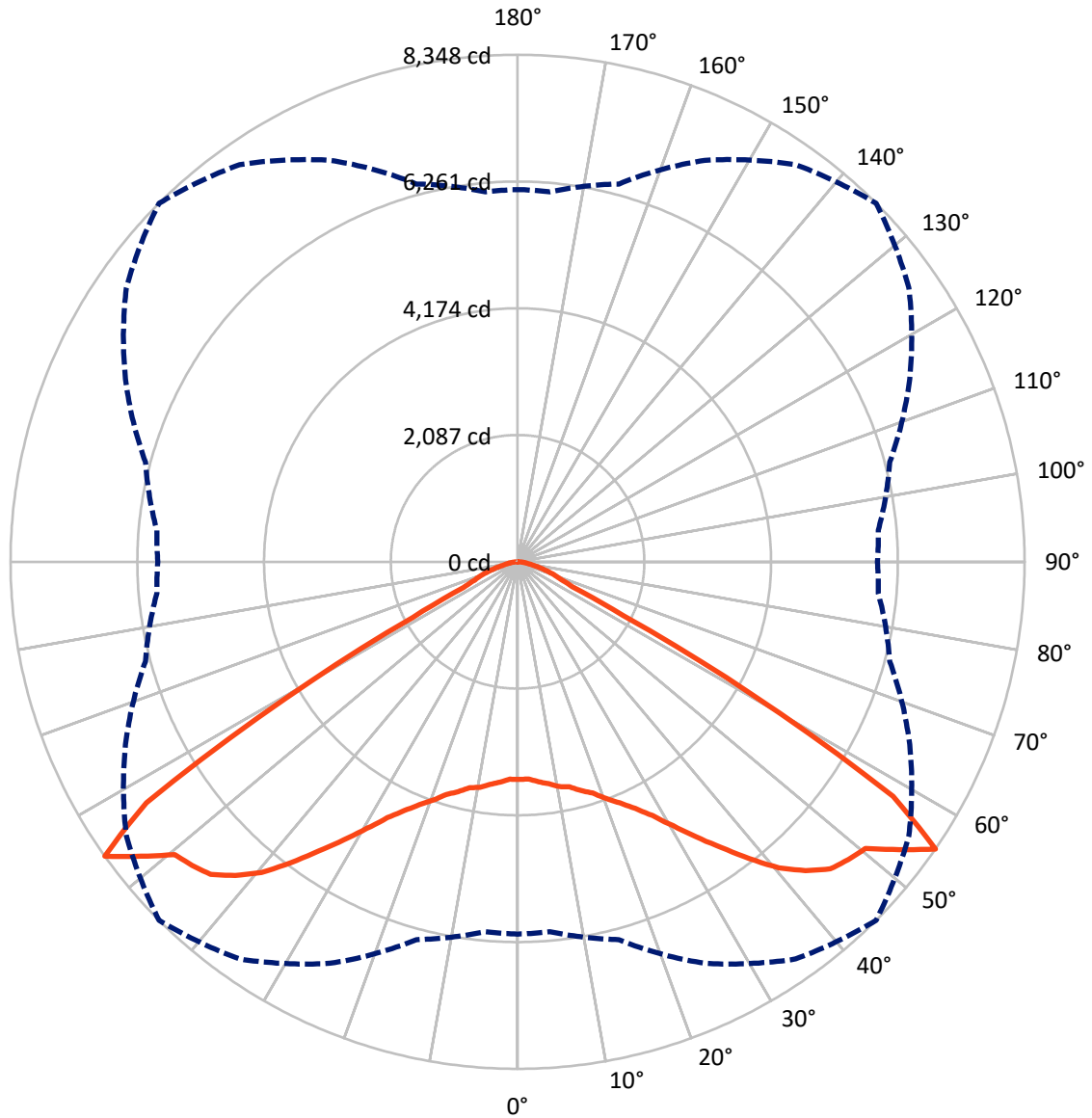
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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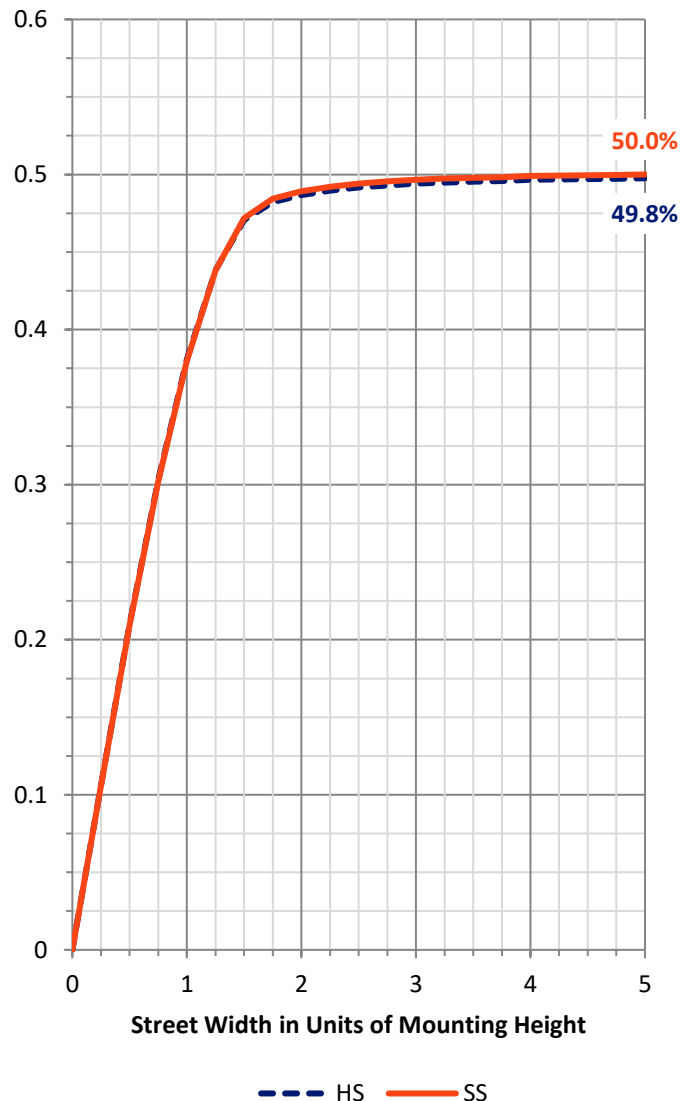
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9807.5 | 0.0 | 9807.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9807.5 | 0.0 | 9807.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 19614.9 | 0.0 | 19614.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 349.9 | 1.8 |
| 10°-20° | 1108.6 | 5.7 |
| 20°-30° | 2067.1 | 10.5 |
| 30°-40° | 3461.0 | 17.6 |
| 40°-50° | 5385.6 | 27.5 |
| 50°-60° | 5592.0 | 28.5 |
| 60°-70° | 1185.9 | 6.0 |
| 70°-80° | 390.5 | 2.0 |
| 80°-90° | 74.4 | 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° | 19614.9 | 100.0 |
| 0°-180° | 19614.9 | 100.0 |

Coefficient of Utilization

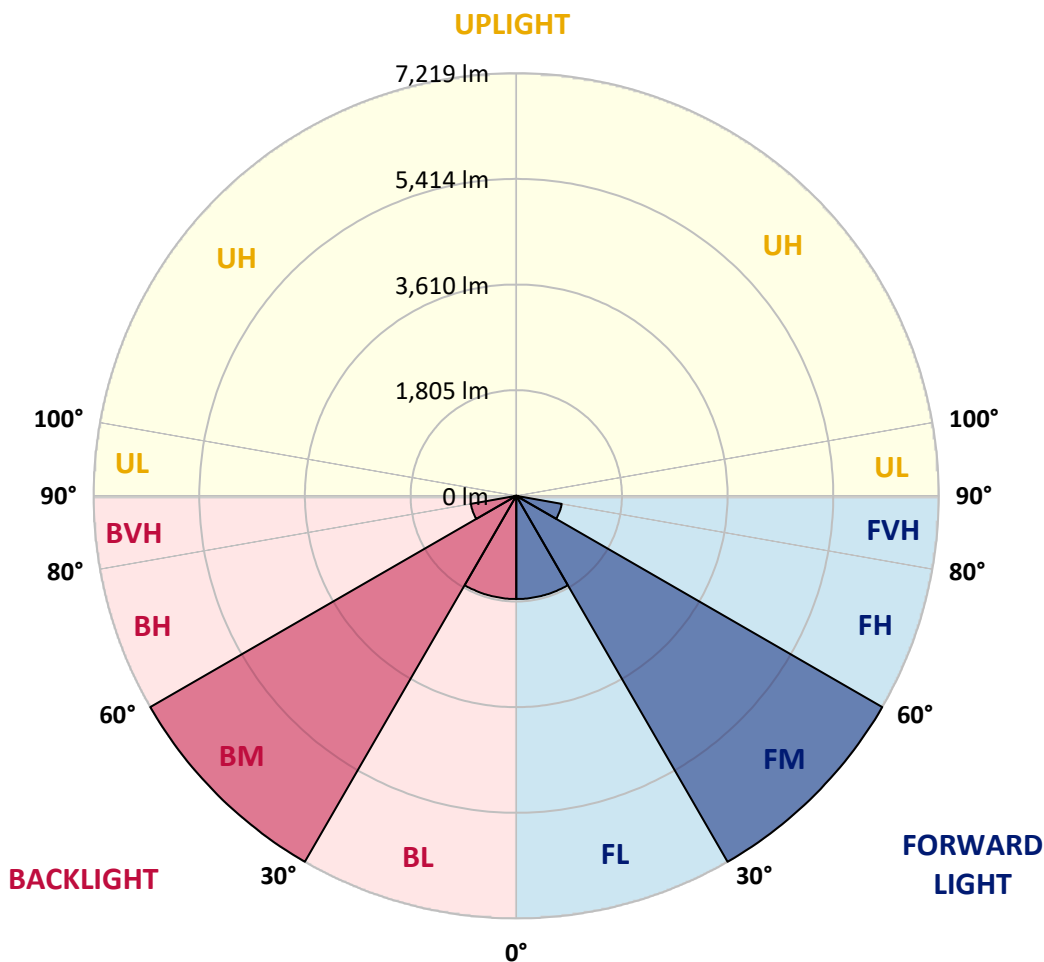


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1762.8 | 9.0 | | | |
| FM (30°-60°) | 7219.3 | 36.8 | | | |
| FH (60°-80°) | 788.2 | 4.0 | | | G1/1800 |
| FVH (80°-90°) | 37.2 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1762.8 | 9.0 | B3/2500 | | |
| BM (30°-60°) | 7219.3 | 36.8 | B4/8500 | | |
| BH (60°-80°) | 788.2 | 4.0 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 37.2 | 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-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3581.4 | 3581.4 | 3581.4 | 3581.4 | 3581.4 | 3581.4 | 3581.4 | 3581.4 | 3581.4 | 3581.4 | 3581.4 |
| 2.5° | 3624.0 | 3607.4 | 3579.0 | 3600.4 | 3616.9 | 3581.4 | 3595.6 | 3602.7 | 3598.0 | 3579.0 | 3586.1 |
| 5° | 3676.2 | 3666.7 | 3643.0 | 3659.6 | 3638.3 | 3638.3 | 3624.0 | 3605.1 | 3633.5 | 3628.8 | 3640.6 |
| 7.5° | 3676.2 | 3664.4 | 3711.7 | 3681.0 | 3690.4 | 3690.4 | 3666.7 | 3647.8 | 3662.0 | 3640.6 | 3628.8 |
| 10° | 3749.7 | 3766.3 | 3744.9 | 3752.1 | 3747.3 | 3763.9 | 3728.3 | 3716.5 | 3704.6 | 3697.6 | 3683.3 |
| 12.5° | 3837.4 | 3825.5 | 3832.6 | 3827.9 | 3844.5 | 3801.9 | 3780.5 | 3754.4 | 3775.8 | 3744.9 | 3766.3 |
| 15° | 3908.5 | 3901.4 | 3908.5 | 3927.4 | 3910.9 | 3908.5 | 3870.5 | 3844.5 | 3811.3 | 3818.4 | 3785.3 |
| 17.5° | 4005.7 | 3998.5 | 4000.9 | 4017.5 | 4015.1 | 4003.3 | 3974.8 | 3925.1 | 3913.2 | 3894.3 | 3873.0 |
| 20° | 4150.2 | 4138.4 | 4133.7 | 4140.7 | 4152.6 | 4162.1 | 4105.2 | 4086.2 | 4045.9 | 4015.1 | 3979.6 |
| 22.5° | 4273.5 | 4268.8 | 4287.7 | 4256.9 | 4283.0 | 4311.4 | 4256.9 | 4247.5 | 4147.9 | 4131.3 | 4093.4 |
| 25° | 4444.2 | 4437.0 | 4425.2 | 4470.2 | 4501.1 | 4498.6 | 4446.5 | 4394.4 | 4318.6 | 4299.5 | 4299.5 |
| 27.5° | 4624.3 | 4584.0 | 4645.6 | 4657.4 | 4712.0 | 4728.6 | 4683.5 | 4607.7 | 4536.6 | 4496.3 | 4505.8 |
| 30° | 4849.4 | 4811.5 | 4825.8 | 4911.1 | 4982.2 | 5043.9 | 4930.1 | 4818.7 | 4719.1 | 4648.0 | 4636.1 |
| 32.5° | 5074.6 | 5036.7 | 5079.4 | 5162.3 | 5304.5 | 5397.0 | 5285.6 | 5091.2 | 4975.1 | 4870.8 | 4892.1 |
| 35° | 5257.1 | 5285.6 | 5354.3 | 5479.9 | 5626.9 | 5776.2 | 5598.4 | 5449.1 | 5283.2 | 5167.1 | 5183.7 |
| 37.5° | 5551.1 | 5638.8 | 5693.3 | 5837.8 | 6046.4 | 6200.5 | 6015.6 | 5821.2 | 5643.5 | 5491.8 | 5439.7 |
| 40° | 5935.0 | 5994.3 | 6055.9 | 6226.6 | 6473.1 | 6627.2 | 6451.7 | 6198.1 | 6022.7 | 5866.3 | 5859.2 |
| 42.5° | 6356.9 | 6413.8 | 6477.8 | 6686.4 | 6833.3 | 6949.4 | 6788.3 | 6653.2 | 6458.8 | 6335.6 | 6328.4 |
| 45° | 6847.6 | 6807.2 | 6878.3 | 7015.8 | 7139.1 | 7215.0 | 7110.7 | 7044.3 | 6904.4 | 6790.6 | 6778.8 |
| 47.5° | 7174.6 | 7139.1 | 7267.1 | 7390.3 | 7409.3 | 7326.3 | 7347.7 | 7409.3 | 7262.3 | 7075.1 | 7134.4 |
| 50° | 7364.3 | 7364.3 | 7449.6 | 7563.4 | 7527.8 | 7421.1 | 7589.5 | 7594.2 | 7447.2 | 7281.3 | 7281.3 |
| 52.5° | 7034.8 | 7108.3 | 7350.0 | 7722.2 | 7840.6 | 7871.5 | 7833.5 | 7672.4 | 7288.4 | 6949.4 | 6932.8 |
| 55° | 6129.4 | 6112.8 | 6439.9 | 7293.2 | 7982.9 | 8347.9 | 7864.4 | 7122.5 | 6342.7 | 5961.1 | 5923.2 |
| 57.5° | 3986.7 | 4005.7 | 4494.0 | 5363.8 | 6608.1 | 7288.4 | 6473.1 | 5430.2 | 4494.0 | 3967.8 | 4017.5 |
| 60° | 1794.2 | 1858.2 | 2154.5 | 2804.0 | 3873.0 | 4427.6 | 3882.4 | 2946.2 | 2261.1 | 1962.5 | 1988.6 |
| 62.5° | 1031.1 | 1042.9 | 1054.8 | 1251.5 | 1649.7 | 1950.7 | 1713.7 | 1322.6 | 1166.1 | 1114.0 | 1114.0 |
| 65° | 869.8 | 862.8 | 865.1 | 881.7 | 924.4 | 986.0 | 960.0 | 924.4 | 929.1 | 924.4 | 917.3 |
| 67.5° | 739.5 | 749.0 | 741.9 | 753.7 | 756.1 | 765.6 | 782.1 | 796.4 | 798.7 | 803.5 | 798.7 |
| 70° | 606.7 | 609.2 | 613.9 | 623.3 | 625.8 | 632.8 | 656.5 | 668.4 | 675.5 | 675.5 | 685.0 |
| 72.5° | 464.6 | 462.2 | 466.9 | 476.4 | 488.3 | 490.6 | 512.0 | 528.5 | 538.1 | 526.2 | 528.5 |
| 75° | 305.8 | 308.1 | 315.2 | 322.4 | 339.0 | 355.6 | 362.6 | 379.2 | 381.6 | 386.3 | 374.5 |
| 77.5° | 182.5 | 187.2 | 194.3 | 208.6 | 222.8 | 237.0 | 253.6 | 265.4 | 270.2 | 265.4 | 251.3 |
| 80° | 118.5 | 118.5 | 128.0 | 139.8 | 156.4 | 168.3 | 177.7 | 187.2 | 194.3 | 187.2 | 182.5 |
| 82.5° | 73.4 | 73.4 | 85.3 | 99.5 | 111.4 | 118.5 | 132.7 | 144.6 | 151.7 | 147.0 | 139.8 |
| 85° | 37.9 | 40.3 | 49.8 | 61.6 | 71.1 | 75.9 | 73.4 | 66.4 | 59.3 | 56.9 | 52.1 |
| 87.5° | 11.8 | 11.8 | 14.3 | 14.3 | 11.8 | 11.8 | 14.3 | 11.8 | 14.3 | 14.3 | 14.3 |
| 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)