

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: P529504

Luminaire Tested: **GLAN-SA4C-830-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529504
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4C-830-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19365 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

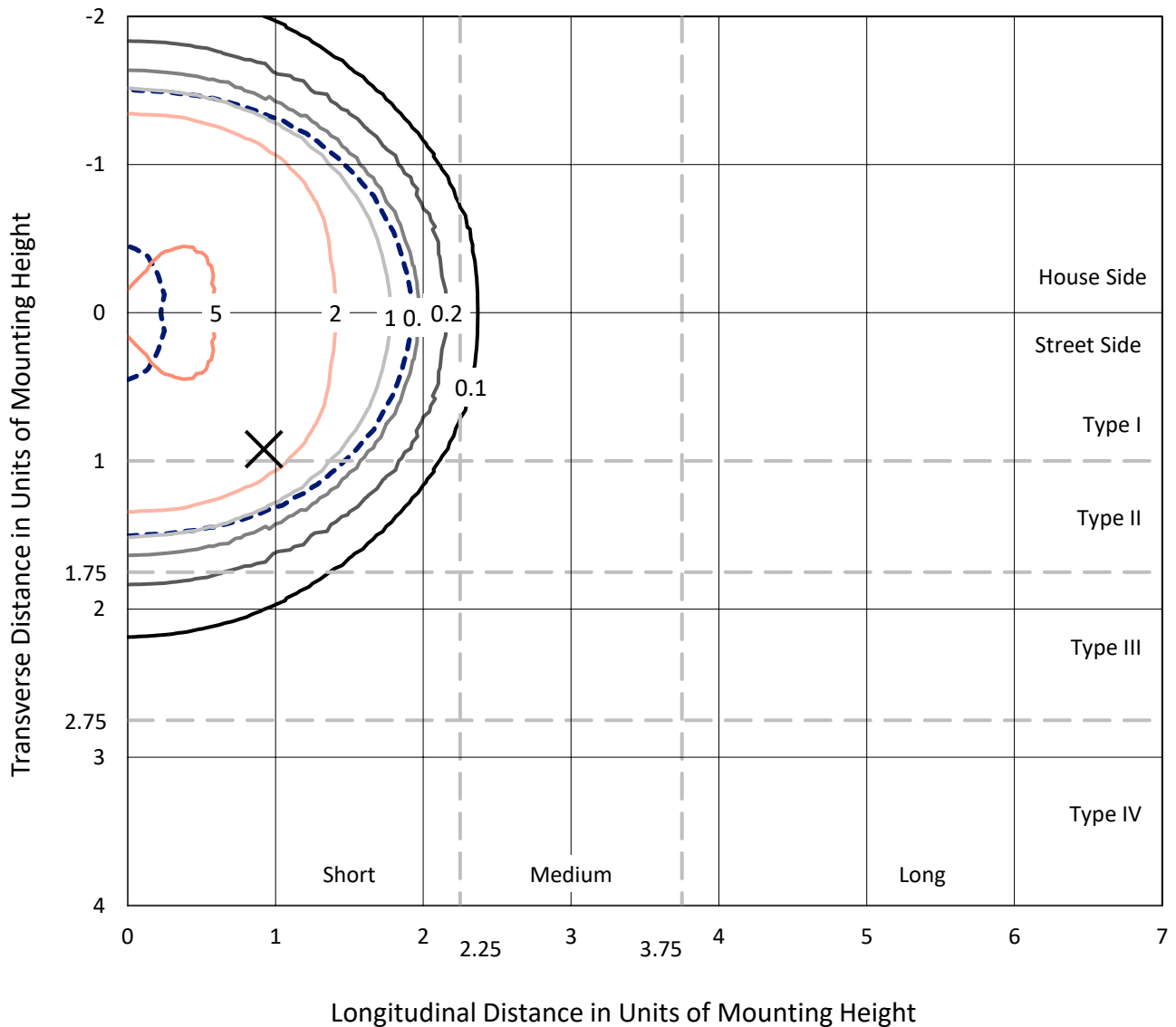
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

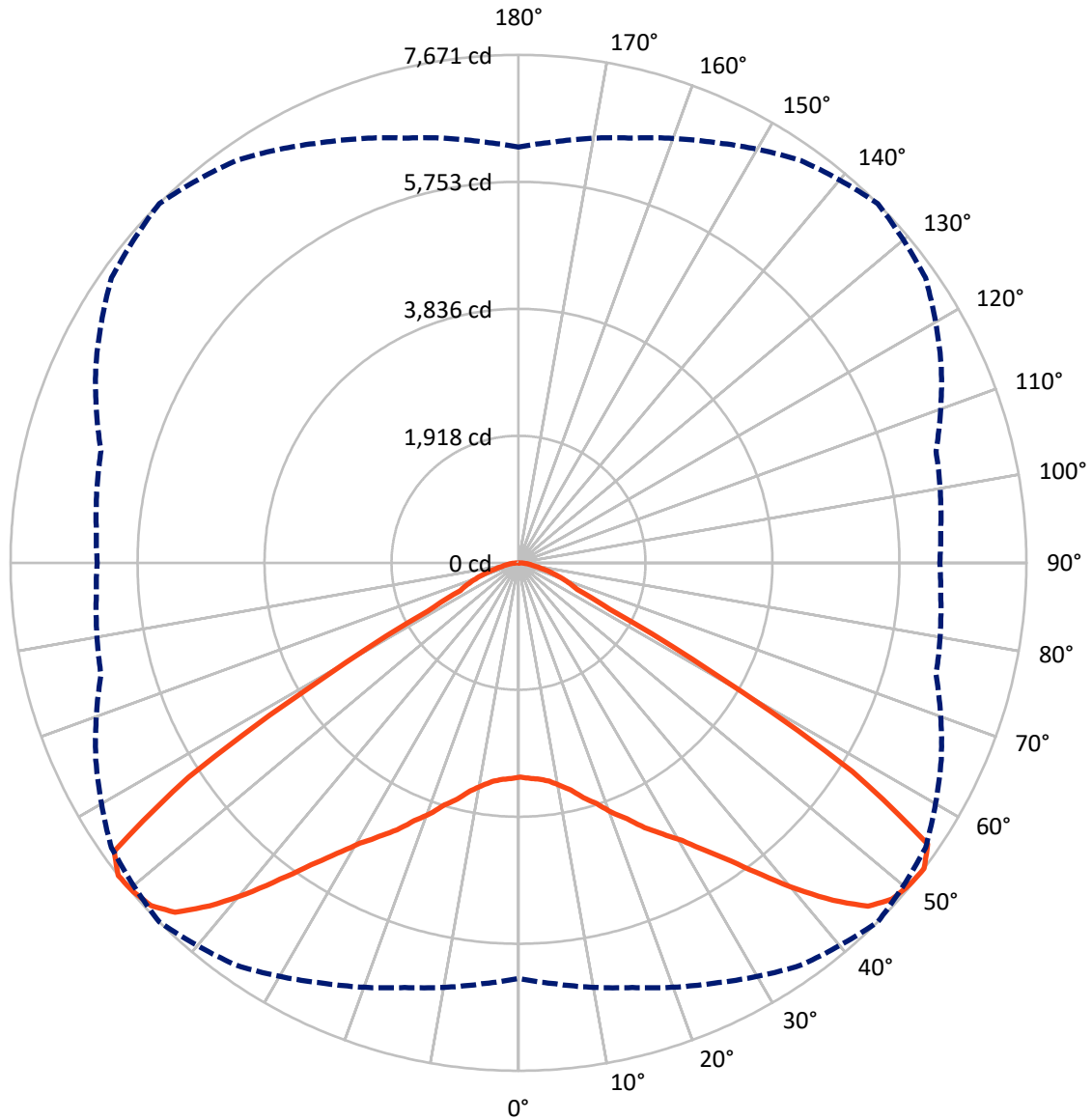
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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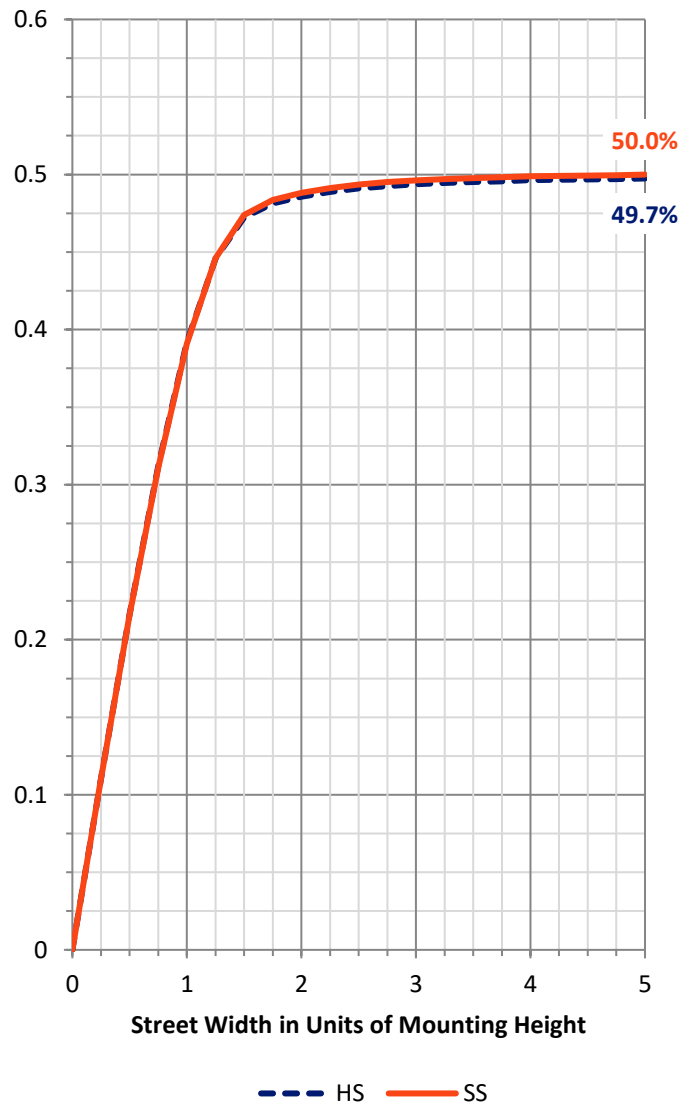
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9682.5 | 0.0 | 9682.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9682.5 | 0.0 | 9682.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 19365.0 | 0.0 | 19365.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 318.0 | 1.6 |
| 10°-20° | 1045.1 | 5.4 |
| 20°-30° | 1989.6 | 10.3 |
| 30°-40° | 3416.3 | 17.6 |
| 40°-50° | 5251.0 | 27.1 |
| 50°-60° | 5332.3 | 27.5 |
| 60°-70° | 1486.0 | 7.7 |
| 70°-80° | 438.4 | 2.3 |
| 80°-90° | 88.3 | 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° | 19365.0 | 100.0 |
| 0°-180° | 19365.0 | 100.0 |

Coefficient of Utilization



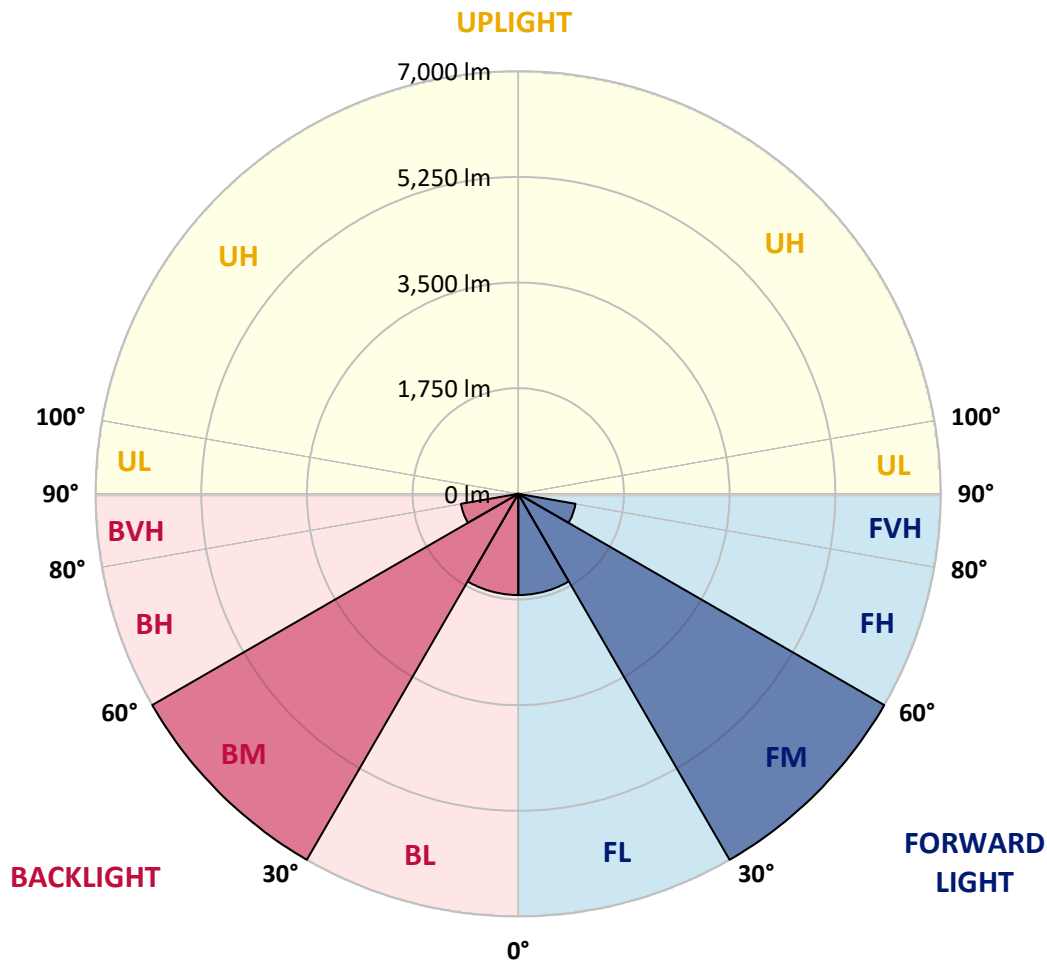
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1676.4 | 8.7 | | | |
| FM (30°-60°) | 6999.8 | 36.1 | | | |
| FH (60°-80°) | 962.2 | 5.0 | | | G1/1800 |
| FVH (80°-90°) | 44.1 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1676.4 | 8.7 | B3/2500 | | |
| BM (30°-60°) | 6999.8 | 36.1 | B4/8500 | | |
| BH (60°-80°) | 962.2 | 5.0 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 44.1 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: 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° | 3237.1 | 3237.1 | 3237.1 | 3237.1 | 3237.1 | 3237.1 | 3237.1 | 3237.1 | 3237.1 | 3237.1 | 3237.1 |
| 2.5° | 3244.3 | 3210.7 | 3222.7 | 3229.9 | 3261.1 | 3258.7 | 3251.5 | 3261.1 | 3270.8 | 3273.2 | 3268.4 |
| 5° | 3241.9 | 3217.9 | 3227.5 | 3234.7 | 3266.0 | 3282.8 | 3278.0 | 3318.8 | 3347.7 | 3340.5 | 3376.5 |
| 7.5° | 3222.7 | 3237.1 | 3225.1 | 3261.1 | 3287.6 | 3328.4 | 3371.7 | 3410.1 | 3446.2 | 3487.0 | 3494.3 |
| 10° | 3266.0 | 3266.0 | 3287.6 | 3316.4 | 3386.1 | 3417.4 | 3479.8 | 3535.1 | 3604.8 | 3652.9 | 3633.6 |
| 12.5° | 3311.6 | 3318.8 | 3318.8 | 3393.3 | 3451.0 | 3520.7 | 3578.4 | 3652.9 | 3751.4 | 3809.1 | 3837.9 |
| 15° | 3357.3 | 3362.1 | 3386.1 | 3487.0 | 3573.6 | 3684.1 | 3737.0 | 3804.3 | 3859.5 | 3967.7 | 3970.1 |
| 17.5° | 3398.1 | 3424.6 | 3496.7 | 3609.6 | 3717.8 | 3823.5 | 3907.6 | 3977.3 | 4025.4 | 4068.6 | 4059.0 |
| 20° | 3551.9 | 3571.2 | 3645.7 | 3758.6 | 3919.6 | 4023.0 | 4051.8 | 4063.8 | 4095.1 | 4181.6 | 4155.1 |
| 22.5° | 3700.9 | 3708.1 | 3777.8 | 3950.9 | 4063.8 | 4200.8 | 4232.0 | 4224.8 | 4236.8 | 4258.5 | 4296.9 |
| 25° | 3854.7 | 3866.8 | 3962.9 | 4109.5 | 4268.1 | 4431.5 | 4457.9 | 4402.7 | 4385.8 | 4409.9 | 4412.3 |
| 27.5° | 4051.8 | 4054.2 | 4176.8 | 4304.1 | 4484.4 | 4638.2 | 4679.0 | 4635.8 | 4556.5 | 4575.7 | 4606.9 |
| 30° | 4301.7 | 4284.9 | 4407.5 | 4590.1 | 4780.0 | 4866.5 | 4936.2 | 4914.6 | 4828.0 | 4811.2 | 4784.8 |
| 32.5° | 4590.1 | 4594.9 | 4705.5 | 4904.9 | 5029.9 | 5174.1 | 5248.6 | 5212.5 | 5157.3 | 5128.4 | 5145.3 |
| 35° | 4996.3 | 5017.9 | 5092.4 | 5258.2 | 5460.1 | 5532.2 | 5649.9 | 5573.0 | 5428.8 | 5464.9 | 5496.1 |
| 37.5° | 5330.3 | 5392.8 | 5532.2 | 5729.2 | 5849.4 | 5981.6 | 6024.8 | 5921.5 | 5815.8 | 5772.5 | 5875.8 |
| 40° | 5842.2 | 5823.0 | 5976.8 | 6173.8 | 6351.7 | 6483.8 | 6428.6 | 6325.2 | 6063.3 | 6065.7 | 6094.5 |
| 42.5° | 6282.0 | 6291.6 | 6409.3 | 6644.9 | 6887.6 | 6969.3 | 6793.9 | 6541.5 | 6250.7 | 6219.5 | 6282.0 |
| 45° | 6652.1 | 6690.5 | 6757.8 | 7072.6 | 7310.5 | 7399.5 | 7075.0 | 6777.0 | 6387.7 | 6257.9 | 6361.3 |
| 47.5° | 6784.2 | 6846.7 | 6993.3 | 7281.7 | 7517.2 | 7589.3 | 7329.8 | 6902.0 | 6515.1 | 6303.6 | 6358.9 |
| 50° | 6803.5 | 6781.8 | 7022.2 | 7286.5 | 7493.2 | 7649.4 | 7421.1 | 6993.3 | 6483.8 | 6373.3 | 6356.5 |
| 52.5° | 6277.2 | 6382.9 | 6640.1 | 7002.9 | 7421.1 | 7671.0 | 7502.8 | 7043.8 | 6527.1 | 6402.1 | 6361.3 |
| 55° | 5080.4 | 4955.4 | 5424.0 | 6034.4 | 6803.5 | 7498.0 | 7474.0 | 7070.2 | 6553.5 | 6450.2 | 6394.9 |
| 57.5° | 2835.8 | 2871.8 | 3136.2 | 3799.5 | 4792.0 | 5945.5 | 6644.9 | 6791.5 | 6541.5 | 6481.4 | 6510.3 |
| 60° | 1312.1 | 1324.2 | 1437.1 | 1747.1 | 2362.3 | 3371.7 | 4292.1 | 5227.0 | 5657.1 | 5743.7 | 5743.7 |
| 62.5° | 978.1 | 973.3 | 1002.1 | 1057.4 | 1187.2 | 1550.1 | 2069.2 | 2811.7 | 3402.9 | 3816.3 | 3924.4 |
| 65° | 884.4 | 882.0 | 896.4 | 915.6 | 925.2 | 975.7 | 1091.1 | 1319.4 | 1511.6 | 1622.2 | 1602.9 |
| 67.5° | 773.8 | 771.4 | 776.2 | 788.3 | 805.1 | 831.5 | 860.3 | 908.4 | 975.7 | 970.9 | 958.9 |
| 70° | 624.8 | 624.8 | 632.0 | 641.7 | 660.9 | 692.1 | 725.8 | 759.4 | 817.1 | 829.1 | 826.7 |
| 72.5° | 461.4 | 454.2 | 468.6 | 487.9 | 507.1 | 545.5 | 581.6 | 612.8 | 653.7 | 665.7 | 660.9 |
| 75° | 293.2 | 298.0 | 307.6 | 329.2 | 362.9 | 389.3 | 427.8 | 454.2 | 480.6 | 490.3 | 492.7 |
| 77.5° | 163.4 | 168.2 | 185.0 | 211.5 | 245.1 | 274.0 | 307.6 | 329.2 | 346.1 | 348.5 | 350.9 |
| 80° | 98.5 | 100.9 | 117.8 | 141.8 | 170.6 | 201.9 | 228.3 | 249.9 | 264.4 | 257.1 | 254.7 |
| 82.5° | 60.1 | 62.5 | 76.9 | 98.5 | 122.6 | 146.6 | 175.4 | 194.7 | 209.1 | 199.5 | 189.9 |
| 85° | 31.2 | 33.6 | 45.7 | 60.1 | 79.3 | 91.3 | 91.3 | 81.7 | 79.3 | 74.5 | 72.1 |
| 87.5° | 9.6 | 9.6 | 12.0 | 14.4 | 12.0 | 14.4 | 16.8 | 19.2 | 19.2 | 21.6 | 19.2 |
| 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)