

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: P652897

Luminaire Tested: **GLAN-SA5C-840-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5C-840-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29557.8 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

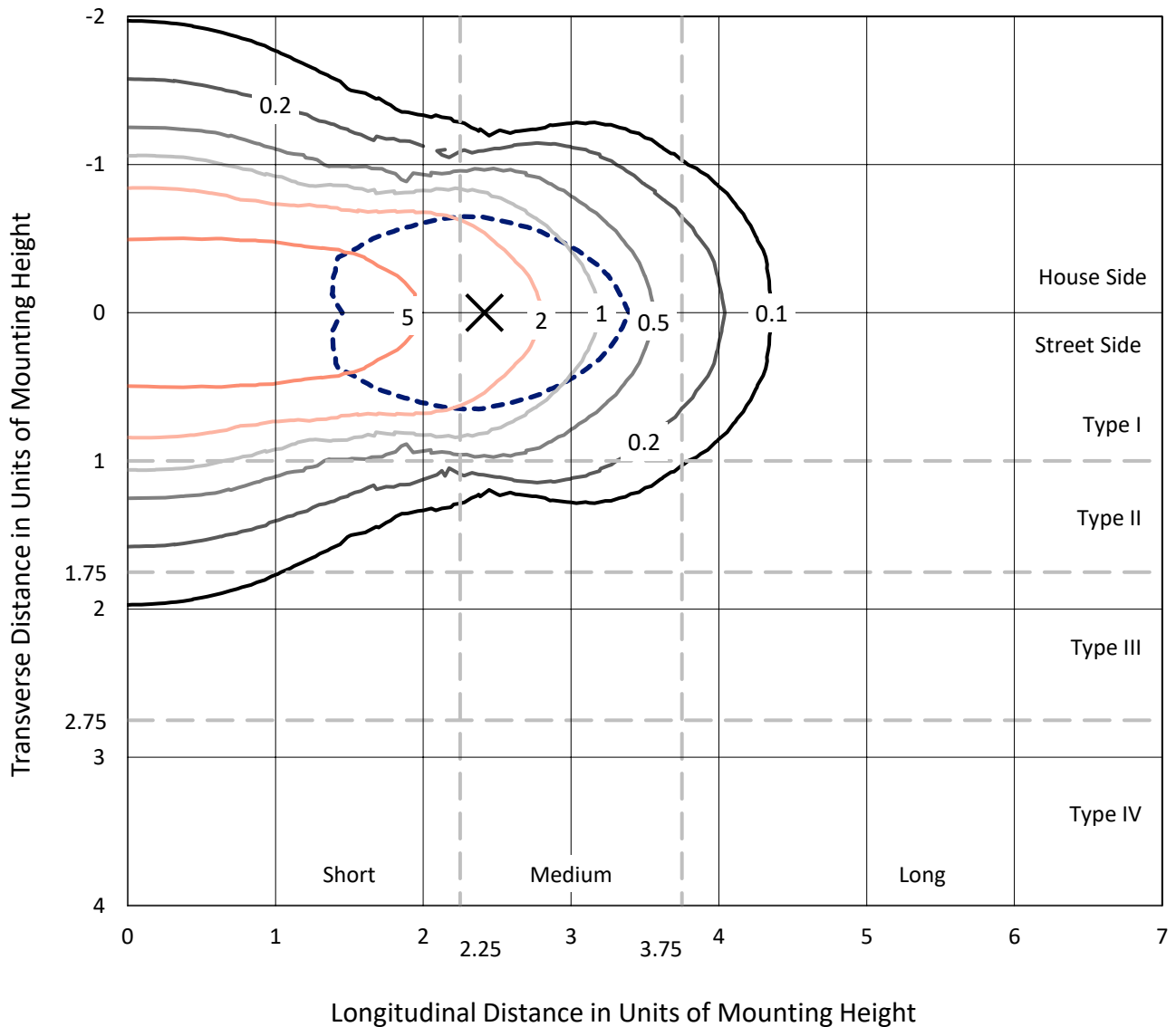
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

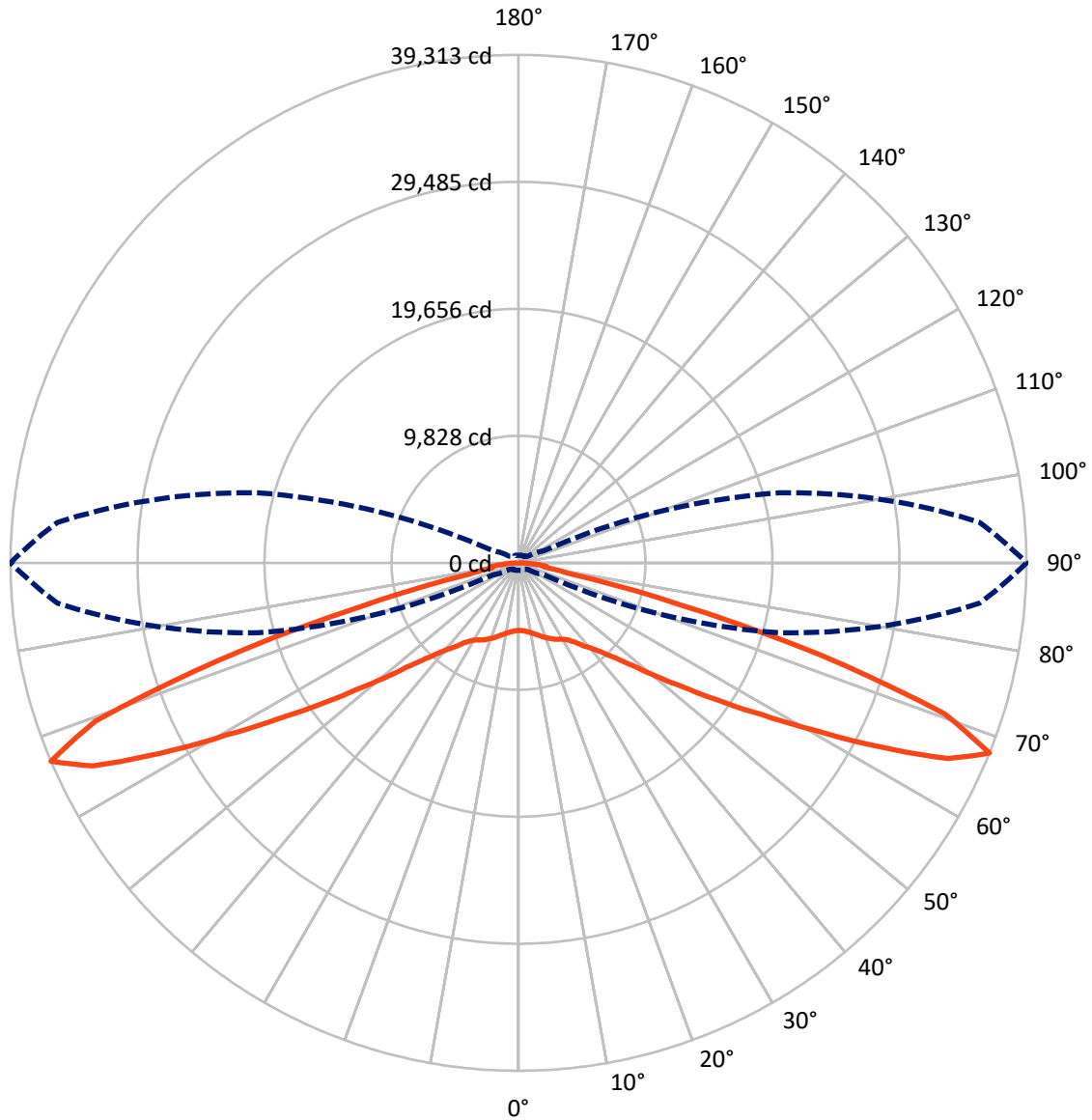
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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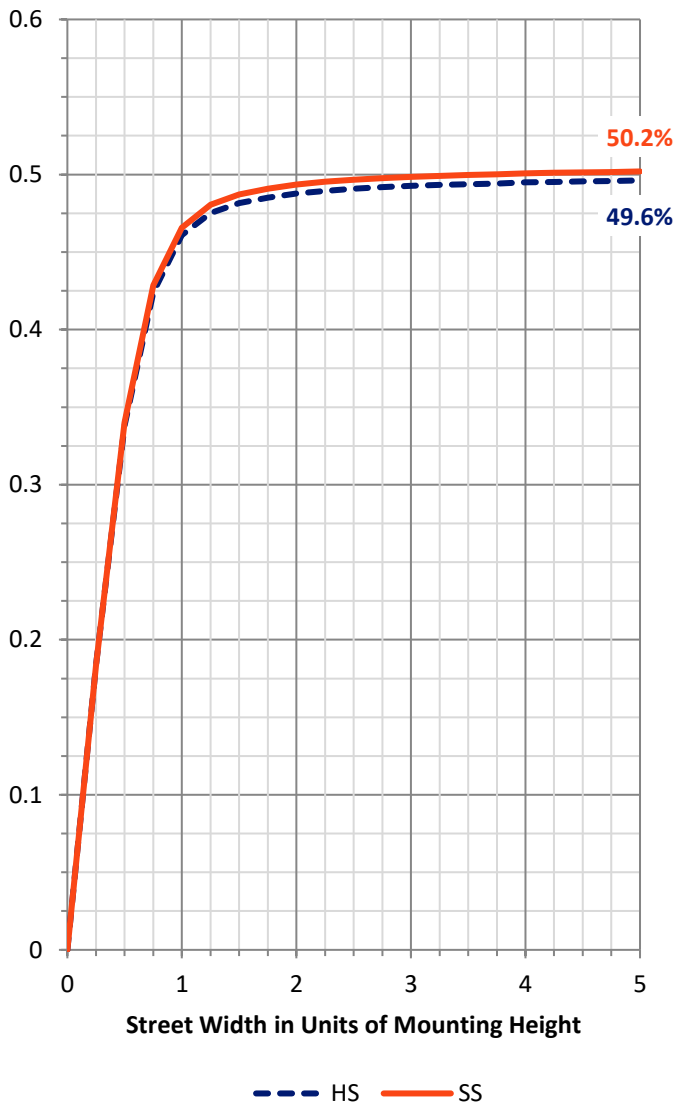
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 14778.9 | 0.0 | 14778.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 14778.9 | 0.0 | 14778.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 29557.8 | 0.0 | 29557.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 521.7 | 1.8 |
| 10°-20° | 1669.1 | 5.6 |
| 20°-30° | 2793.7 | 9.5 |
| 30°-40° | 3784.8 | 12.8 |
| 40°-50° | 4794.0 | 16.2 |
| 50°-60° | 5988.9 | 20.3 |
| 60°-70° | 7039.7 | 23.8 |
| 70°-80° | 2693.0 | 9.1 |
| 80°-90° | 272.8 | 0.9 |
| 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° | 29557.8 | 100.0 |
| 0°-180° | 29557.8 | 100.0 |



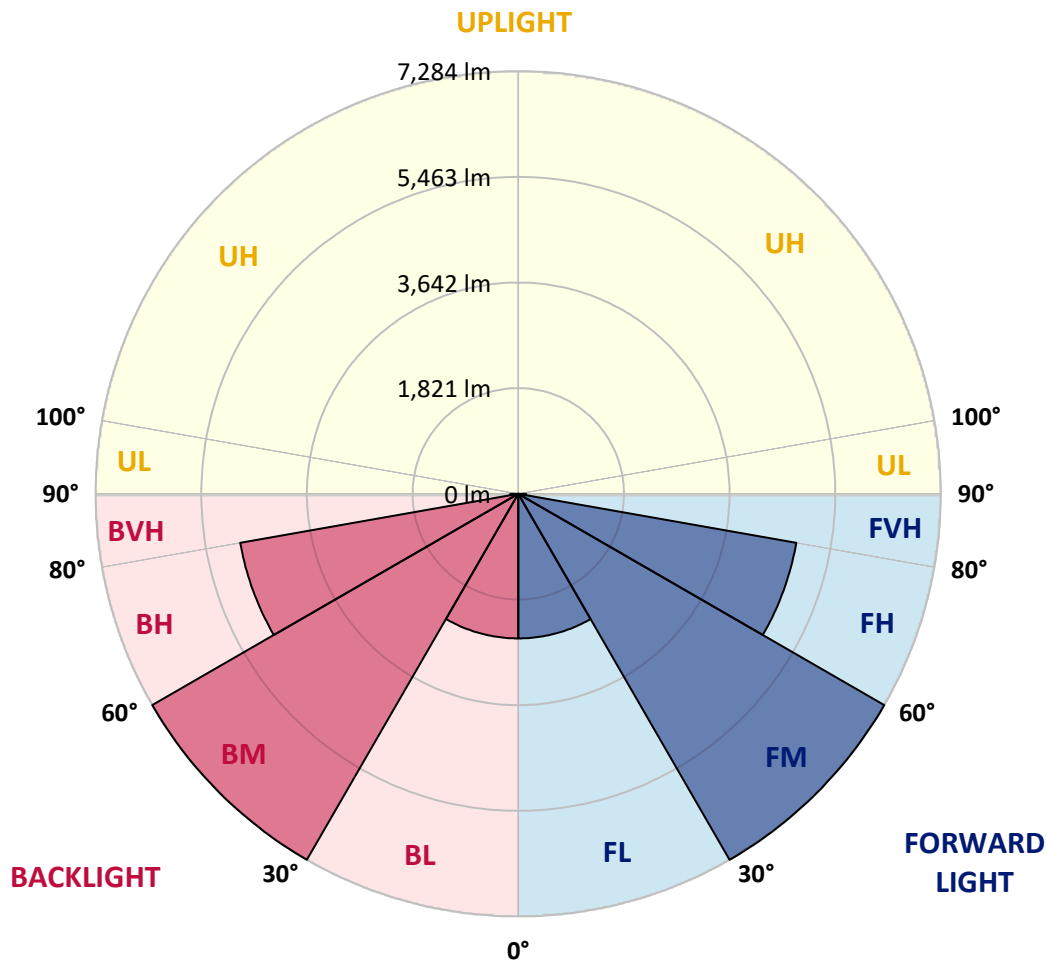
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2492.3 | 8.4 | | | |
| FM (30°-60°) | 7283.8 | 24.6 | | | |
| FH (60°-80°) | 4866.4 | 16.5 | | | G2/5000 |
| FVH (80°-90°) | 136.4 | 0.5 | | | G2/225 |
| BL (0°-30°) | 2492.3 | 8.4 | B3/2500 | | |
| BM (30°-60°) | 7283.8 | 24.6 | B4/8500 | | |
| BH (60°-80°) | 4866.4 | 16.5 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 136.4 | 0.5 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 5232.6 | 5232.6 | 5232.6 | 5232.6 | 5232.6 | 5232.6 | 5232.6 | 5232.6 | 5232.6 | 5232.6 | 5232.6 |
| 2.5° | 5299.7 | 5296.4 | 5298.1 | 5296.4 | 5301.4 | 5298.1 | 5278.5 | 5262.1 | 5249.0 | 5250.6 | 5245.7 |
| 5° | 5412.7 | 5414.4 | 5416.0 | 5407.8 | 5419.2 | 5412.7 | 5381.6 | 5355.4 | 5329.2 | 5319.4 | 5316.1 |
| 7.5° | 5505.9 | 5514.2 | 5519.1 | 5527.2 | 5546.9 | 5546.9 | 5530.5 | 5492.9 | 5435.6 | 5402.8 | 5401.2 |
| 10° | 5599.3 | 5605.9 | 5620.6 | 5646.7 | 5679.4 | 5710.6 | 5704.0 | 5653.3 | 5579.6 | 5524.0 | 5510.9 |
| 12.5° | 5632.0 | 5640.2 | 5689.3 | 5764.6 | 5838.2 | 5898.8 | 5898.8 | 5857.9 | 5763.0 | 5677.8 | 5653.3 |
| 15° | 5517.5 | 5532.2 | 5620.6 | 5780.9 | 5974.1 | 6106.7 | 6136.1 | 6078.8 | 5977.3 | 5846.5 | 5816.9 |
| 17.5° | 5290.0 | 5326.0 | 5455.2 | 5692.6 | 6013.4 | 6288.3 | 6373.4 | 6345.6 | 6214.7 | 6047.7 | 6013.4 |
| 20° | 5046.1 | 5085.4 | 5222.9 | 5537.1 | 5980.6 | 6394.7 | 6641.9 | 6648.4 | 6486.4 | 6244.2 | 6193.4 |
| 22.5° | 4777.6 | 4807.1 | 4983.9 | 5352.1 | 5882.5 | 6419.3 | 6872.7 | 6985.6 | 6766.3 | 6440.5 | 6368.6 |
| 25° | 4476.5 | 4509.2 | 4694.1 | 5091.9 | 5697.5 | 6391.4 | 7083.8 | 7332.6 | 7059.3 | 6650.0 | 6558.4 |
| 27.5° | 4188.4 | 4201.5 | 4399.5 | 4803.8 | 5453.6 | 6319.4 | 7239.3 | 7651.8 | 7383.3 | 6823.5 | 6707.3 |
| 30° | 3911.8 | 3942.9 | 4118.0 | 4517.4 | 5173.7 | 6178.7 | 7373.5 | 8015.1 | 7732.0 | 7005.2 | 6856.3 |
| 32.5° | 3618.8 | 3656.5 | 3846.3 | 4250.6 | 4893.9 | 5967.6 | 7455.3 | 8412.9 | 8218.1 | 7299.9 | 7141.1 |
| 35° | 3337.3 | 3361.9 | 3553.4 | 3946.1 | 4620.5 | 5722.0 | 7470.1 | 8861.3 | 8845.0 | 7746.7 | 7535.5 |
| 37.5° | 3049.2 | 3085.2 | 3278.4 | 3654.8 | 4330.8 | 5461.8 | 7396.4 | 9337.6 | 9601.1 | 8367.0 | 8139.5 |
| 40° | 2772.6 | 2803.7 | 2993.6 | 3373.3 | 4001.8 | 5144.2 | 7221.2 | 9772.9 | 10483.3 | 9005.3 | 8682.9 |
| 42.5° | 2471.4 | 2479.7 | 2687.5 | 3073.8 | 3679.4 | 4776.0 | 6969.2 | 10160.9 | 11467.0 | 9861.3 | 9460.3 |
| 45° | 2129.4 | 2150.7 | 2343.8 | 2723.5 | 3309.5 | 4363.5 | 6627.2 | 10481.6 | 12714.2 | 11048.0 | 10501.3 |
| 47.5° | 1787.3 | 1805.3 | 1982.1 | 2356.9 | 2905.2 | 3890.6 | 6100.1 | 10763.2 | 13994.1 | 12555.4 | 11838.5 |
| 50° | 1453.4 | 1463.3 | 1607.2 | 1939.5 | 2450.2 | 3392.9 | 5447.1 | 10853.2 | 15441.0 | 14689.7 | 13774.7 |
| 52.5° | 1149.0 | 1163.7 | 1273.4 | 1533.6 | 1964.1 | 2805.4 | 4741.6 | 10630.6 | 17130.1 | 17220.1 | 15930.4 |
| 55° | 931.3 | 936.2 | 1018.0 | 1209.5 | 1535.2 | 2190.0 | 3890.6 | 10010.3 | 18946.9 | 20462.5 | 18817.5 |
| 57.5° | 802.0 | 805.3 | 851.1 | 957.5 | 1181.7 | 1651.5 | 3018.2 | 8836.7 | 20578.7 | 24261.3 | 22146.7 |
| 60° | 728.3 | 730.0 | 756.1 | 818.4 | 936.2 | 1266.8 | 2162.1 | 7180.4 | 22189.3 | 28489.0 | 26284.4 |
| 62.5° | 682.6 | 682.6 | 700.6 | 734.9 | 792.2 | 972.2 | 1566.4 | 5180.3 | 23292.4 | 32778.9 | 31384.4 |
| 65° | 638.3 | 638.3 | 651.4 | 676.0 | 707.0 | 795.4 | 1157.1 | 3378.2 | 23264.6 | 35903.5 | 36513.9 |
| 67.5° | 587.6 | 587.6 | 597.4 | 621.9 | 640.0 | 684.2 | 893.6 | 2212.8 | 20897.8 | 35834.8 | 39312.8 |
| 70° | 527.1 | 527.1 | 540.1 | 561.4 | 576.2 | 603.9 | 705.4 | 1514.0 | 15352.6 | 30597.2 | 34962.3 |
| 72.5° | 466.5 | 468.1 | 476.3 | 497.5 | 509.1 | 525.4 | 585.9 | 1060.6 | 9417.8 | 20834.0 | 24446.3 |
| 75° | 399.4 | 402.7 | 410.8 | 432.1 | 441.9 | 448.5 | 494.3 | 756.1 | 4764.5 | 11232.9 | 12789.4 |
| 77.5° | 322.4 | 329.0 | 333.9 | 356.8 | 363.4 | 373.2 | 407.5 | 546.6 | 2091.7 | 4036.2 | 4072.2 |
| 80° | 235.6 | 243.9 | 258.6 | 279.9 | 284.8 | 291.3 | 311.0 | 387.9 | 947.6 | 1843.0 | 2001.7 |
| 82.5° | 173.5 | 184.9 | 166.9 | 194.8 | 194.8 | 186.6 | 219.3 | 260.2 | 435.4 | 1825.0 | 2183.4 |
| 85° | 94.9 | 96.5 | 86.7 | 99.8 | 106.4 | 104.8 | 116.2 | 127.7 | 211.2 | 1217.8 | 1255.4 |
| 87.5° | 22.9 | 24.6 | 26.2 | 31.1 | 37.7 | 37.7 | 41.0 | 36.0 | 68.7 | 394.4 | 225.9 |
| 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)