

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: P654519

Luminaire Tested: **GLAN-SA8B-840-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P654519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8B-840-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20157.1 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

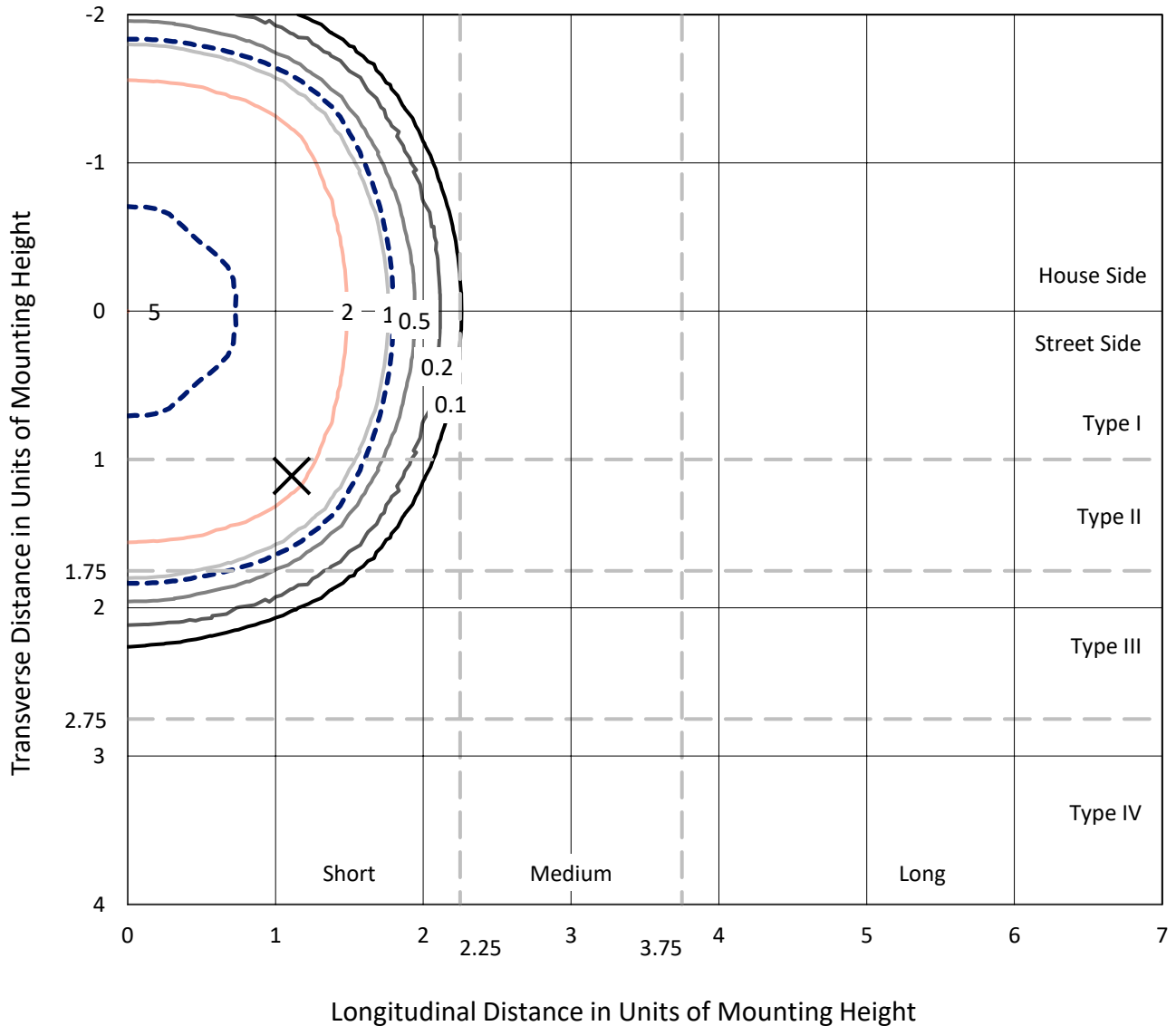
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

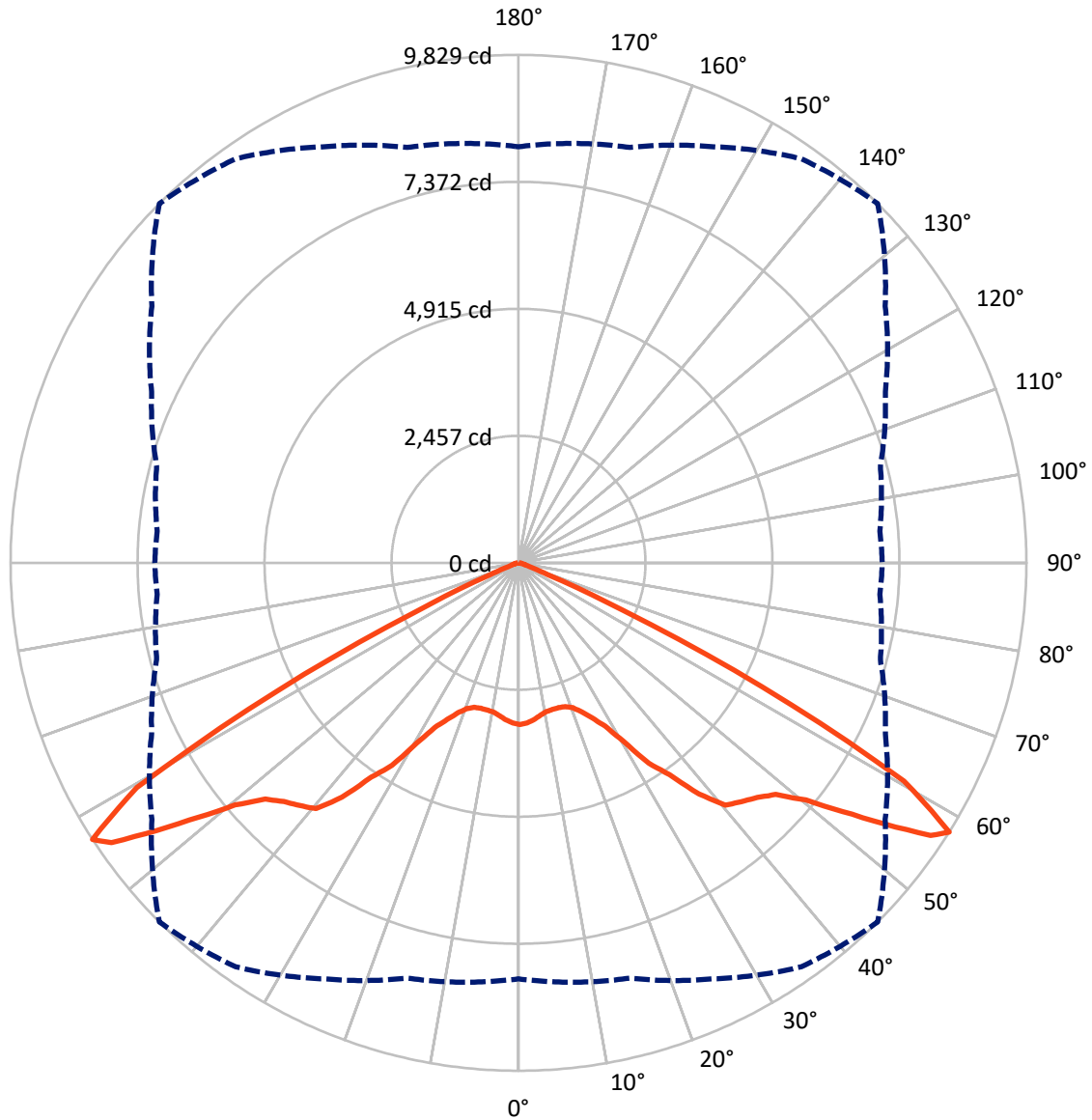
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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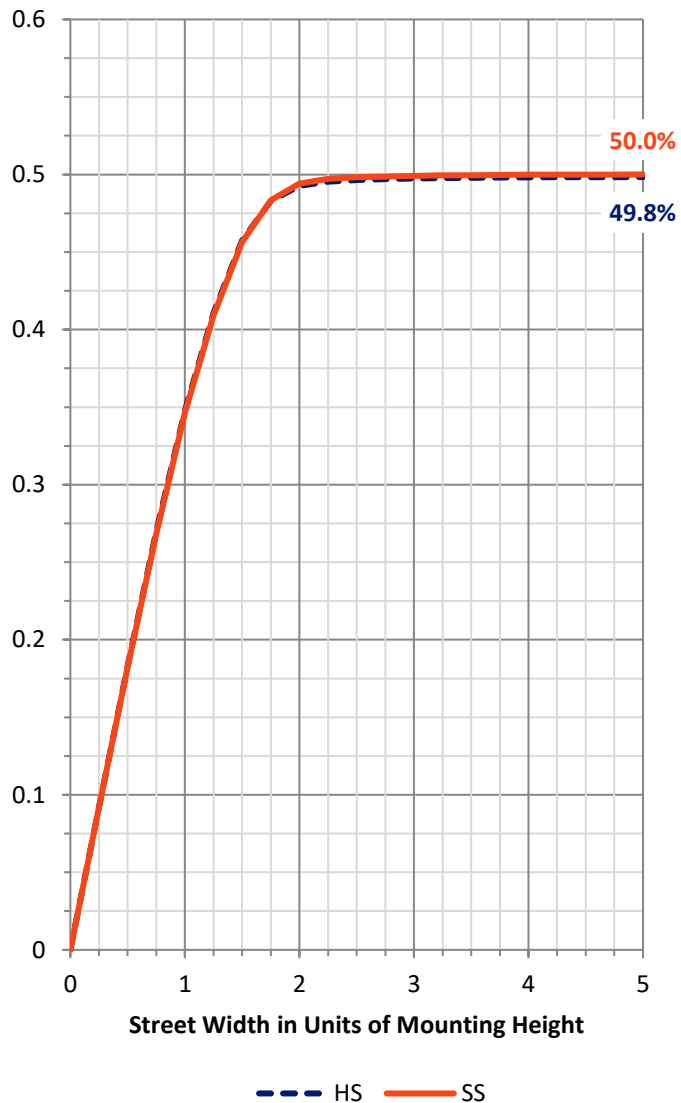
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10078.5 | 0.0 | 10078.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 10078.5 | 0.0 | 10078.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 20157.1 | 0.0 | 20157.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 287.3 | 1.4 |
| 10°-20° | 830.5 | 4.1 |
| 20°-30° | 1532.9 | 7.6 |
| 30°-40° | 3014.7 | 15.0 |
| 40°-50° | 4910.2 | 24.4 |
| 50°-60° | 7002.5 | 34.7 |
| 60°-70° | 2424.4 | 12.0 |
| 70°-80° | 130.0 | 0.6 |
| 80°-90° | 24.4 | 0.1 |
| 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° | 20157.1 | 100.0 |
| 0°-180° | 20157.1 | 100.0 |

Coefficient of Utilization



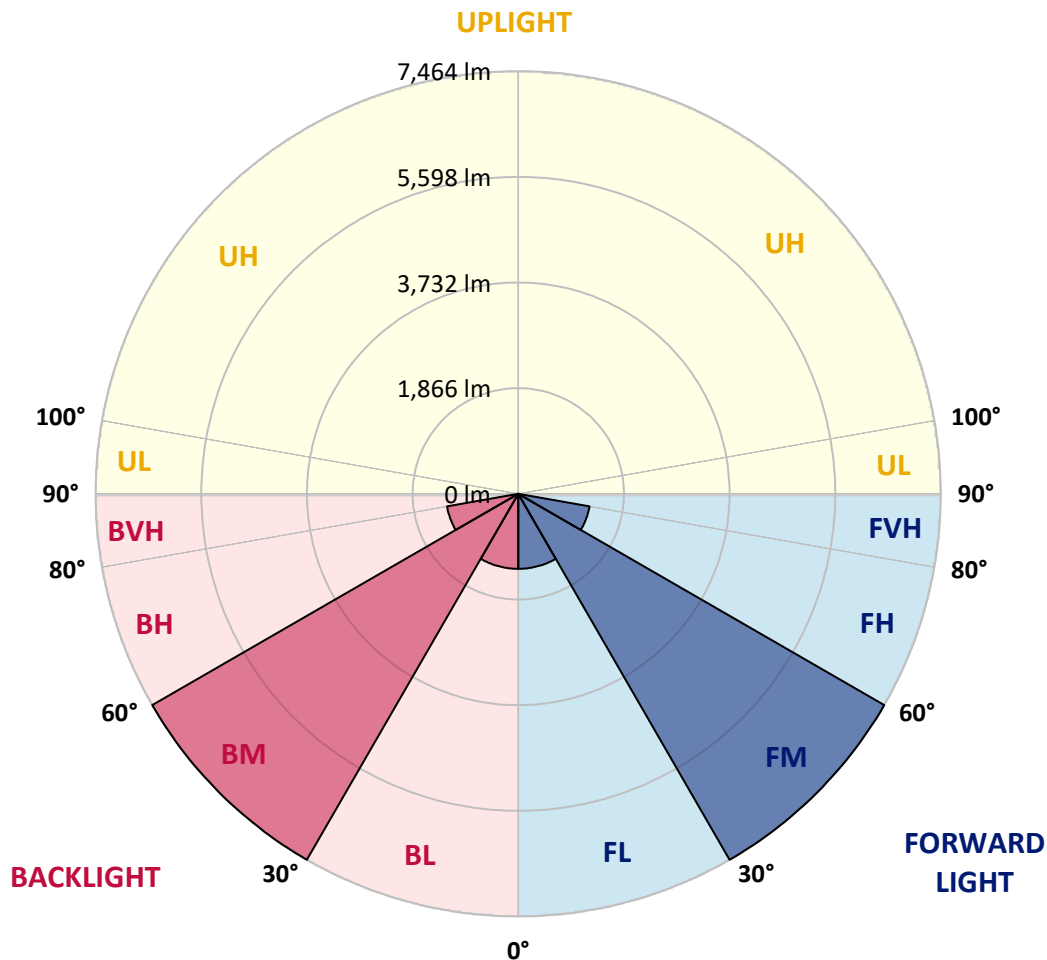
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1325.4 | 6.6 | | | |
| FM (30°-60°) | 7463.7 | 37.0 | | | |
| FH (60°-80°) | 1277.2 | 6.3 | | | G1/1800 |
| FVH (80°-90°) | 12.2 | 0.1 | | | G1/100 |
| BL (0°-30°) | 1325.4 | 6.6 | B3/2500 | | |
| BM (30°-60°) | 7463.7 | 37.0 | B4/8500 | | |
| BH (60°-80°) | 1277.2 | 6.3 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 12.2 | 0.1 | | | 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° | 3126.6 | 3126.6 | 3126.6 | 3126.6 | 3126.6 | 3126.6 | 3126.6 | 3126.6 | 3126.6 | 3126.6 | 3126.6 |
| 2.5° | 3118.2 | 3135.0 | 3114.0 | 3105.6 | 3101.4 | 3101.4 | 3088.7 | 3088.7 | 3084.5 | 3088.7 | 3071.9 |
| 5° | 3067.7 | 3084.5 | 3084.5 | 3080.3 | 3055.1 | 3050.9 | 3038.4 | 3030.0 | 3034.2 | 3017.3 | 3030.0 |
| 7.5° | 3017.3 | 3030.0 | 3013.1 | 3008.9 | 3000.5 | 2983.7 | 2979.5 | 2941.6 | 2945.9 | 2945.9 | 2954.3 |
| 10° | 3008.9 | 3004.7 | 2979.5 | 2958.5 | 2933.2 | 2929.0 | 2916.4 | 2908.0 | 2908.0 | 2903.9 | 2916.4 |
| 12.5° | 3008.9 | 2987.9 | 2983.7 | 2937.4 | 2895.5 | 2912.2 | 2878.7 | 2857.6 | 2887.1 | 2895.5 | 2912.2 |
| 15° | 3004.7 | 3025.7 | 2954.3 | 2933.2 | 2903.9 | 2908.0 | 2878.7 | 2857.6 | 2874.5 | 2882.9 | 2895.5 |
| 17.5° | 3030.0 | 3017.3 | 2996.3 | 2954.3 | 2941.6 | 2924.8 | 2887.1 | 2870.2 | 2870.2 | 2891.3 | 2895.5 |
| 20° | 3097.2 | 3063.5 | 3021.5 | 3000.5 | 3013.1 | 2992.1 | 2945.9 | 2882.9 | 2899.7 | 2916.4 | 2929.0 |
| 22.5° | 3160.2 | 3135.0 | 3105.6 | 3092.9 | 3164.4 | 3130.8 | 3050.9 | 2979.5 | 2954.3 | 2983.7 | 3004.7 |
| 25° | 3282.1 | 3282.1 | 3227.4 | 3244.2 | 3324.1 | 3328.3 | 3235.8 | 3109.8 | 3092.9 | 3105.6 | 3114.0 |
| 27.5° | 3530.0 | 3542.6 | 3496.4 | 3513.2 | 3546.8 | 3576.3 | 3496.4 | 3391.3 | 3353.5 | 3349.3 | 3361.9 |
| 30° | 3799.0 | 3824.2 | 3820.0 | 3891.4 | 3988.1 | 4004.8 | 3887.2 | 3714.9 | 3601.4 | 3580.5 | 3597.2 |
| 32.5° | 4151.9 | 4164.5 | 4156.1 | 4240.2 | 4500.8 | 4622.6 | 4315.8 | 4072.1 | 3920.8 | 3958.7 | 3920.8 |
| 35° | 4815.9 | 4803.3 | 4710.9 | 4727.7 | 4942.0 | 5030.3 | 4736.1 | 4580.6 | 4509.2 | 4584.8 | 4568.0 |
| 37.5° | 5387.4 | 5341.3 | 5265.6 | 5374.8 | 5597.6 | 5677.4 | 5370.6 | 5097.5 | 4967.2 | 5093.3 | 5147.9 |
| 40° | 5870.8 | 5753.0 | 5648.0 | 5757.2 | 6055.6 | 6164.9 | 5715.3 | 5492.5 | 5442.1 | 5534.5 | 5652.2 |
| 42.5° | 6278.4 | 6202.7 | 6064.0 | 6072.4 | 6270.0 | 6320.4 | 5959.0 | 5828.7 | 5778.3 | 5925.3 | 5984.2 |
| 45° | 6568.3 | 6496.9 | 6366.6 | 6358.2 | 6509.5 | 6475.9 | 6152.3 | 6064.0 | 6093.5 | 6190.1 | 6219.5 |
| 47.5° | 6715.4 | 6753.2 | 6677.6 | 6698.6 | 6778.5 | 6698.6 | 6442.2 | 6442.2 | 6375.0 | 6433.8 | 6404.5 |
| 50° | 7139.8 | 7022.2 | 7118.8 | 7118.8 | 7202.9 | 7211.3 | 6955.0 | 6862.5 | 6681.8 | 6580.9 | 6580.9 |
| 52.5° | 7635.8 | 7644.1 | 7681.9 | 7820.6 | 7963.5 | 8085.4 | 7719.8 | 7324.8 | 7022.2 | 6891.9 | 6875.1 |
| 55° | 8043.4 | 8127.4 | 8278.7 | 8539.3 | 8951.1 | 9119.2 | 8488.8 | 7782.8 | 7413.0 | 7211.3 | 7169.3 |
| 56° | 8266.1 | 8186.2 | 8446.8 | 8804.0 | 9341.9 | 9560.4 | 8614.9 | 7875.3 | 7467.7 | 7240.7 | 7236.5 |
| 57.5° | 8051.7 | 8140.0 | 8320.7 | 8883.8 | 9543.6 | 9829.4 | 8661.1 | 7833.2 | 7249.1 | 7018.0 | 7039.0 |
| 60° | 6358.2 | 6442.2 | 6686.0 | 7316.4 | 8350.1 | 8572.9 | 7329.0 | 6459.0 | 5938.0 | 5606.0 | 5610.2 |
| 62.5° | 3597.2 | 3660.3 | 3849.4 | 4433.5 | 5076.4 | 5290.8 | 4568.0 | 3988.1 | 3626.6 | 3441.8 | 3382.9 |
| 65° | 1323.7 | 1298.5 | 1327.9 | 1626.3 | 2021.3 | 2202.1 | 1899.5 | 1605.3 | 1416.2 | 1349.0 | 1323.7 |
| 67.5° | 495.9 | 458.1 | 428.7 | 458.1 | 575.7 | 609.3 | 558.9 | 466.5 | 437.1 | 449.7 | 458.1 |
| 70° | 306.8 | 290.0 | 231.1 | 218.5 | 214.3 | 210.1 | 222.7 | 235.3 | 269.0 | 315.2 | 323.6 |
| 72.5° | 214.3 | 201.8 | 163.9 | 155.5 | 147.1 | 142.9 | 163.9 | 180.7 | 210.1 | 243.7 | 247.9 |
| 75° | 84.0 | 88.2 | 84.0 | 92.4 | 96.6 | 100.8 | 117.7 | 130.3 | 142.9 | 142.9 | 138.7 |
| 77.5° | 16.8 | 16.8 | 25.2 | 33.6 | 42.0 | 54.7 | 79.8 | 92.4 | 96.6 | 92.4 | 79.8 |
| 80° | 0.0 | 0.0 | 8.4 | 16.8 | 33.6 | 46.3 | 71.4 | 79.8 | 88.2 | 79.8 | 63.1 |
| 82.5° | 0.0 | 0.0 | 8.4 | 21.0 | 33.6 | 42.0 | 67.3 | 84.0 | 96.6 | 88.2 | 67.3 |
| 85° | 0.0 | 0.0 | 8.4 | 16.8 | 25.2 | 29.4 | 29.4 | 21.0 | 21.0 | 12.6 | 8.4 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)