

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: P527732

Luminaire Tested: **GLAN-SA2D-735-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527732
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2D-735-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12294 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

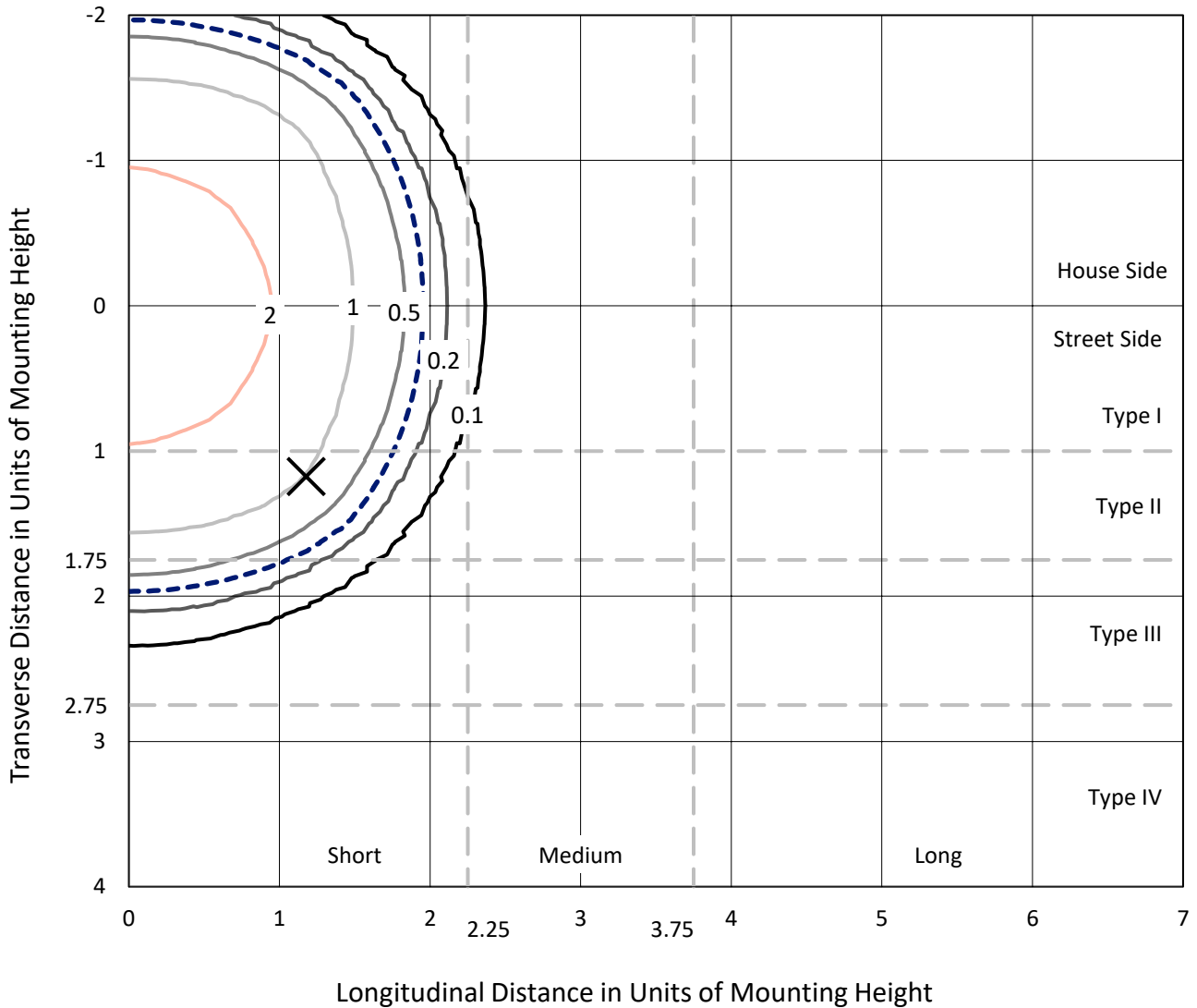
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

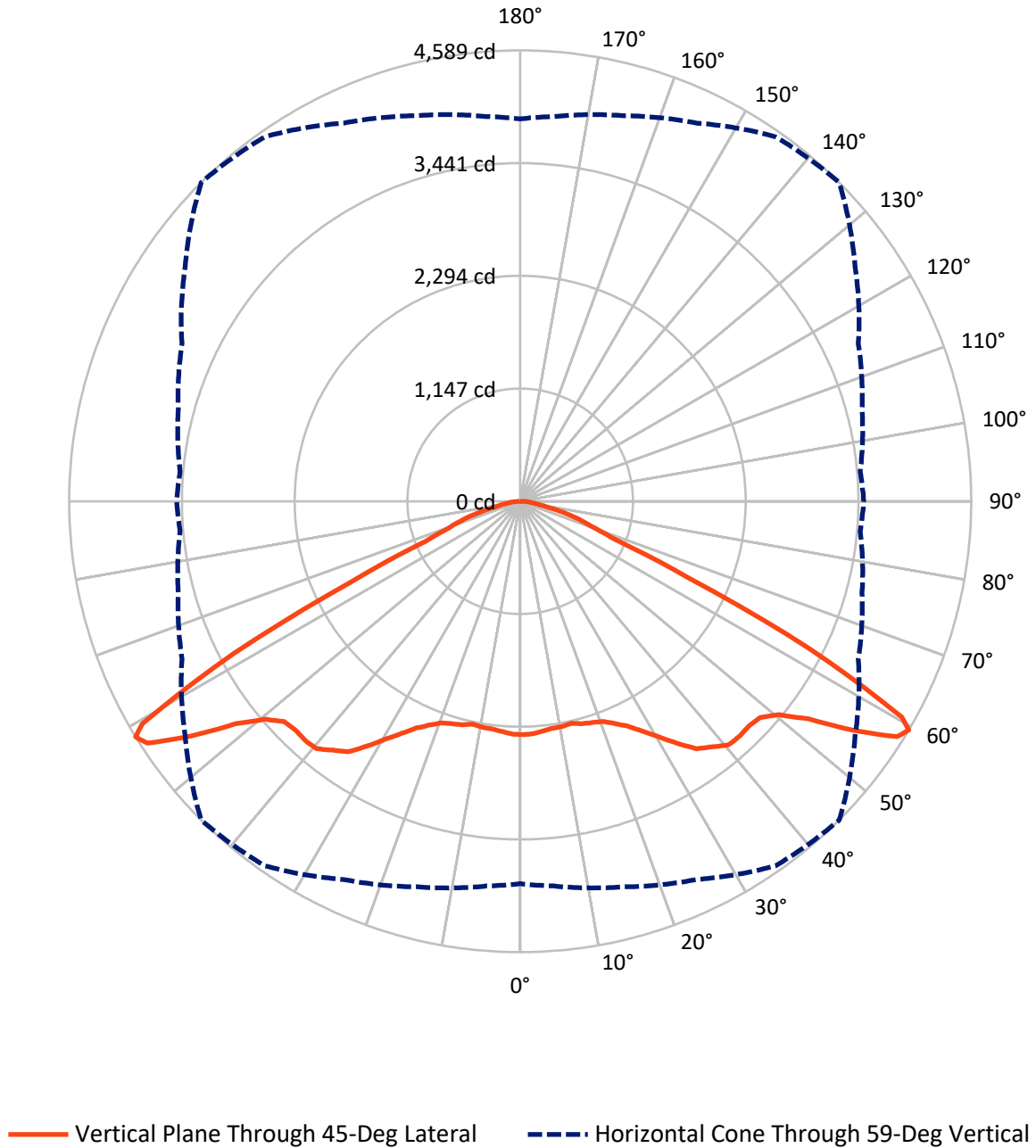
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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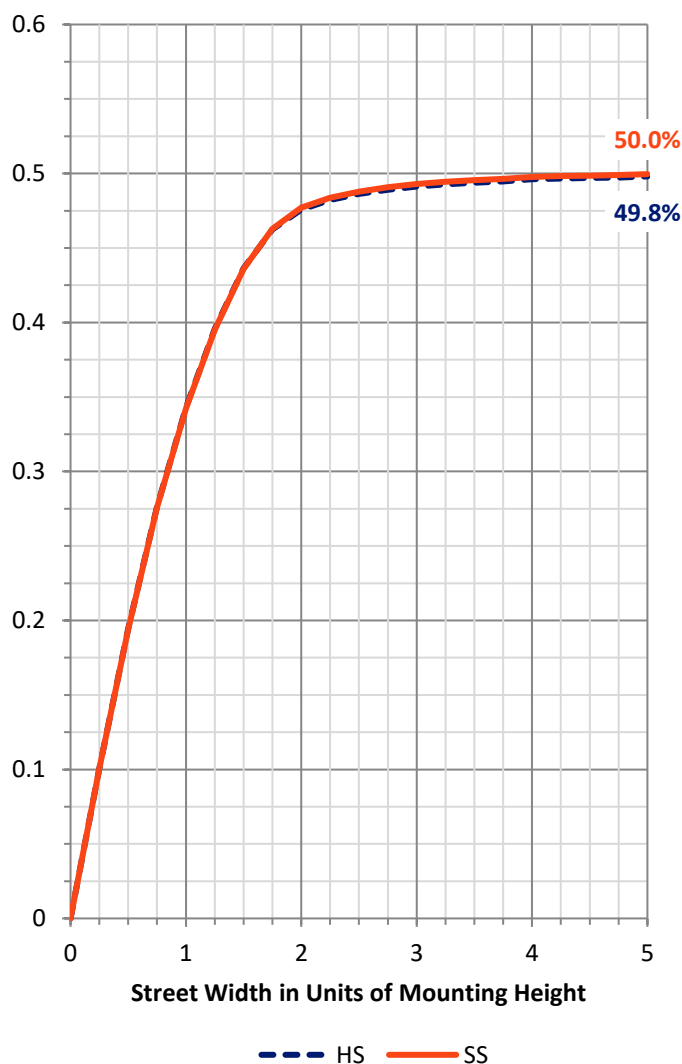
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6147.0 | 0.0 | 6147.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6147.0 | 0.0 | 6147.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 12294.0 | 0.0 | 12294.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 223.9 | 1.8 |
| 10°-20° | 665.7 | 5.4 |
| 20°-30° | 1162.4 | 9.5 |
| 30°-40° | 1856.5 | 15.1 |
| 40°-50° | 2528.9 | 20.6 |
| 50°-60° | 3419.7 | 27.8 |
| 60°-70° | 1875.4 | 15.3 |
| 70°-80° | 479.8 | 3.9 |
| 80°-90° | 81.8 | 0.7 |
| 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° | 12294.0 | 100.0 |
| 0°-180° | 12294.0 | 100.0 |

Coefficient of Utilization



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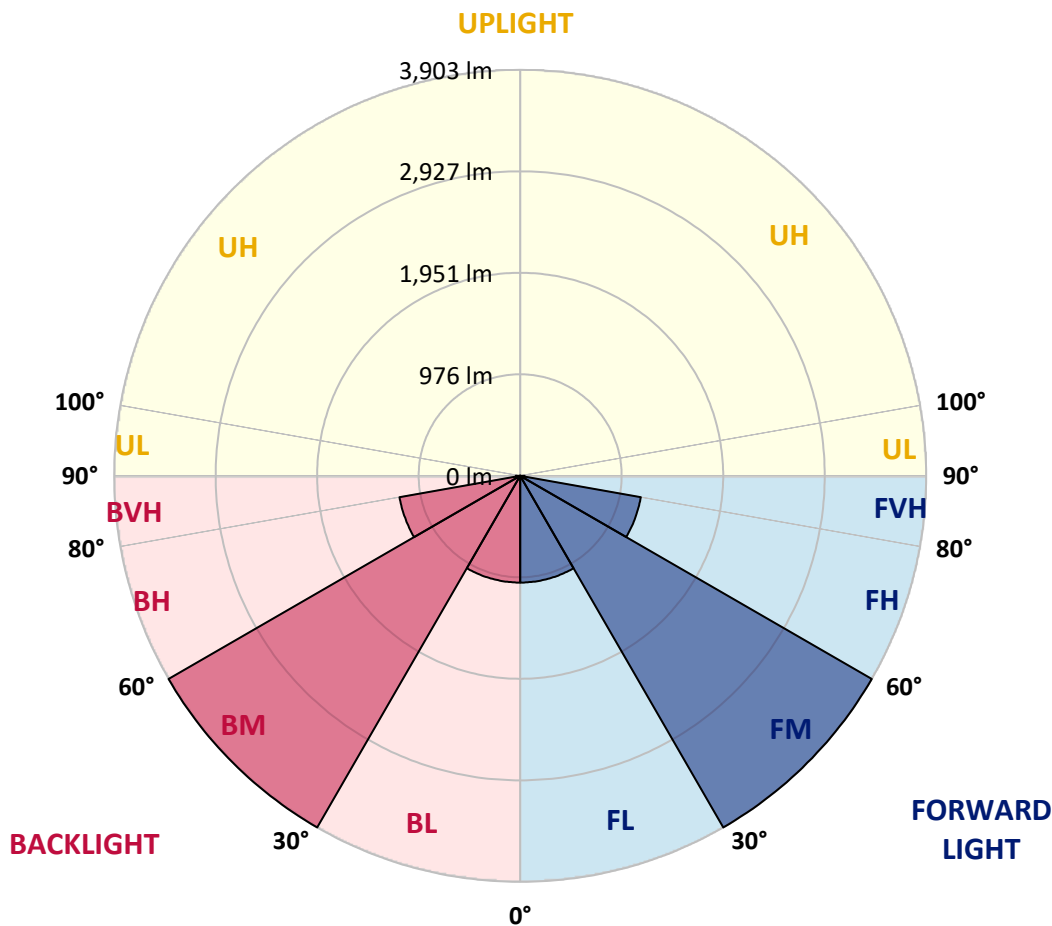
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1026.0 | 8.3 | | | |
| FM (30°-60°) | 3902.5 | 31.7 | | | |
| FH (60°-80°) | 1177.6 | 9.6 | | | G1/1800 |
| FVH (80°-90°) | 40.9 | 0.3 | | | G1/100 |
| BL (0°-30°) | 1026.0 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 3902.5 | 31.7 | B3/5000 | | |
| BH (60°-80°) | 1177.6 | 9.6 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 40.9 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2374.6 | 2374.6 | 2374.6 | 2374.6 | 2374.6 | 2374.6 | 2374.6 | 2374.6 | 2374.6 | 2374.6 | 2374.6 |
| 2.5° | 2360.4 | 2377.8 | 2365.2 | 2376.2 | 2374.6 | 2369.9 | 2362.0 | 2357.3 | 2351.0 | 2360.4 | 2344.7 |
| 5° | 2351.0 | 2365.2 | 2379.3 | 2360.4 | 2360.4 | 2351.0 | 2346.2 | 2336.8 | 2336.8 | 2335.2 | 2333.6 |
| 7.5° | 2366.7 | 2352.6 | 2346.2 | 2349.4 | 2352.6 | 2332.1 | 2346.2 | 2327.3 | 2311.6 | 2322.6 | 2335.2 |
| 10° | 2352.6 | 2358.9 | 2335.2 | 2346.2 | 2328.9 | 2332.1 | 2322.6 | 2335.2 | 2317.9 | 2317.9 | 2317.9 |
| 12.5° | 2366.7 | 2349.4 | 2357.3 | 2349.4 | 2344.7 | 2317.9 | 2330.5 | 2316.3 | 2314.7 | 2330.5 | 2316.3 |
| 15° | 2395.1 | 2366.7 | 2360.4 | 2344.7 | 2349.4 | 2349.4 | 2336.8 | 2338.4 | 2321.0 | 2330.5 | 2333.6 |
| 17.5° | 2385.6 | 2369.9 | 2365.2 | 2346.2 | 2362.0 | 2366.7 | 2343.1 | 2327.3 | 2338.4 | 2336.8 | 2335.2 |
| 20° | 2393.5 | 2399.8 | 2395.1 | 2398.2 | 2404.6 | 2391.9 | 2369.9 | 2347.8 | 2333.6 | 2354.1 | 2352.6 |
| 22.5° | 2443.9 | 2437.6 | 2434.5 | 2431.3 | 2442.4 | 2455.0 | 2425.0 | 2390.4 | 2390.4 | 2404.6 | 2410.9 |
| 25° | 2484.9 | 2483.3 | 2481.8 | 2495.9 | 2533.8 | 2533.8 | 2495.9 | 2451.8 | 2440.8 | 2450.2 | 2442.4 |
| 27.5° | 2544.8 | 2562.1 | 2555.8 | 2581.0 | 2636.2 | 2648.8 | 2598.4 | 2546.4 | 2516.4 | 2505.4 | 2519.6 |
| 30° | 2681.9 | 2661.4 | 2666.1 | 2692.9 | 2741.8 | 2782.7 | 2705.5 | 2650.4 | 2609.4 | 2607.8 | 2614.1 |
| 32.5° | 2773.3 | 2789.0 | 2803.2 | 2828.4 | 2905.6 | 2937.1 | 2844.2 | 2754.4 | 2729.2 | 2715.0 | 2719.7 |
| 35° | 2956.1 | 2941.9 | 2938.7 | 2963.9 | 3041.1 | 3093.1 | 2976.5 | 2897.8 | 2864.7 | 2896.2 | 2896.2 |
| 37.5° | 3129.4 | 3090.0 | 3060.1 | 3093.1 | 3164.0 | 3170.4 | 3071.1 | 3028.5 | 3011.2 | 3047.4 | 3045.9 |
| 40° | 3211.3 | 3208.2 | 3138.8 | 3157.7 | 3252.3 | 3261.7 | 3168.8 | 3118.4 | 3115.2 | 3162.5 | 3209.7 |
| 42.5° | 3296.4 | 3266.5 | 3197.1 | 3209.7 | 3268.0 | 3271.2 | 3183.0 | 3168.8 | 3203.4 | 3249.1 | 3252.3 |
| 45° | 3310.6 | 3285.4 | 3241.3 | 3209.7 | 3252.3 | 3261.7 | 3209.7 | 3219.2 | 3222.4 | 3277.5 | 3277.5 |
| 47.5° | 3339.0 | 3335.8 | 3310.6 | 3287.0 | 3294.8 | 3287.0 | 3253.9 | 3268.0 | 3315.3 | 3342.1 | 3329.5 |
| 50° | 3417.7 | 3384.7 | 3409.9 | 3389.4 | 3391.0 | 3413.0 | 3383.1 | 3397.3 | 3387.8 | 3364.2 | 3348.4 |
| 52.5° | 3591.1 | 3575.3 | 3597.4 | 3611.6 | 3627.3 | 3677.7 | 3643.1 | 3567.4 | 3496.5 | 3433.5 | 3431.9 |
| 55° | 3844.8 | 3855.8 | 3898.3 | 3970.8 | 4032.3 | 4112.6 | 3945.6 | 3764.4 | 3650.9 | 3551.7 | 3558.0 |
| 57.5° | 4084.3 | 4076.4 | 4134.7 | 4300.1 | 4479.8 | 4520.7 | 4193.0 | 3934.6 | 3750.2 | 3687.2 | 3660.4 |
| 59° | 3892.0 | 3929.9 | 4062.2 | 4246.6 | 4528.6 | 4588.5 | 4159.9 | 3795.9 | 3600.5 | 3472.9 | 3495.0 |
| 60° | 3589.5 | 3603.7 | 3721.9 | 3978.7 | 4360.0 | 4462.4 | 3937.7 | 3581.6 | 3321.6 | 3247.6 | 3280.7 |
| 62.5° | 2536.9 | 2525.9 | 2611.0 | 2820.5 | 3162.5 | 3301.1 | 2927.7 | 2677.2 | 2513.3 | 2431.3 | 2450.2 |
| 65° | 1348.8 | 1399.2 | 1433.9 | 1564.7 | 1745.9 | 1892.4 | 1738.0 | 1629.3 | 1537.9 | 1470.1 | 1468.6 |
| 67.5° | 910.8 | 904.5 | 912.3 | 942.3 | 1003.7 | 1044.7 | 1041.6 | 986.4 | 978.5 | 965.9 | 980.1 |
| 70° | 767.4 | 764.2 | 750.0 | 750.0 | 762.6 | 772.1 | 783.1 | 789.4 | 802.0 | 817.8 | 816.2 |
| 72.5° | 622.4 | 614.5 | 605.1 | 600.4 | 616.1 | 620.8 | 635.0 | 641.3 | 652.3 | 650.8 | 665.0 |
| 75° | 411.3 | 411.3 | 422.3 | 434.9 | 439.6 | 449.1 | 450.7 | 469.6 | 469.6 | 472.7 | 460.1 |
| 77.5° | 230.1 | 223.8 | 231.6 | 244.2 | 255.3 | 272.6 | 289.9 | 304.1 | 312.0 | 308.8 | 308.8 |
| 80° | 133.9 | 133.9 | 141.8 | 156.0 | 170.2 | 185.9 | 198.5 | 209.6 | 217.4 | 214.3 | 208.0 |
| 82.5° | 83.5 | 83.5 | 91.4 | 105.6 | 116.6 | 126.1 | 143.4 | 157.6 | 167.0 | 163.9 | 156.0 |
| 85° | 42.5 | 42.5 | 52.0 | 61.5 | 75.6 | 81.9 | 80.4 | 74.1 | 72.5 | 64.6 | 64.6 |
| 87.5° | 11.0 | 11.0 | 15.8 | 17.3 | 14.2 | 15.8 | 15.8 | 15.8 | 15.8 | 15.8 | 17.3 |
| 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)