

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: McGRAW-EDISON

Report Number: P452149

Luminaire Tested: **GALN-SA3A-750-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452149
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: McGRAW-EDISON
Catalog Number: GALN-SA3A-750-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13628 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

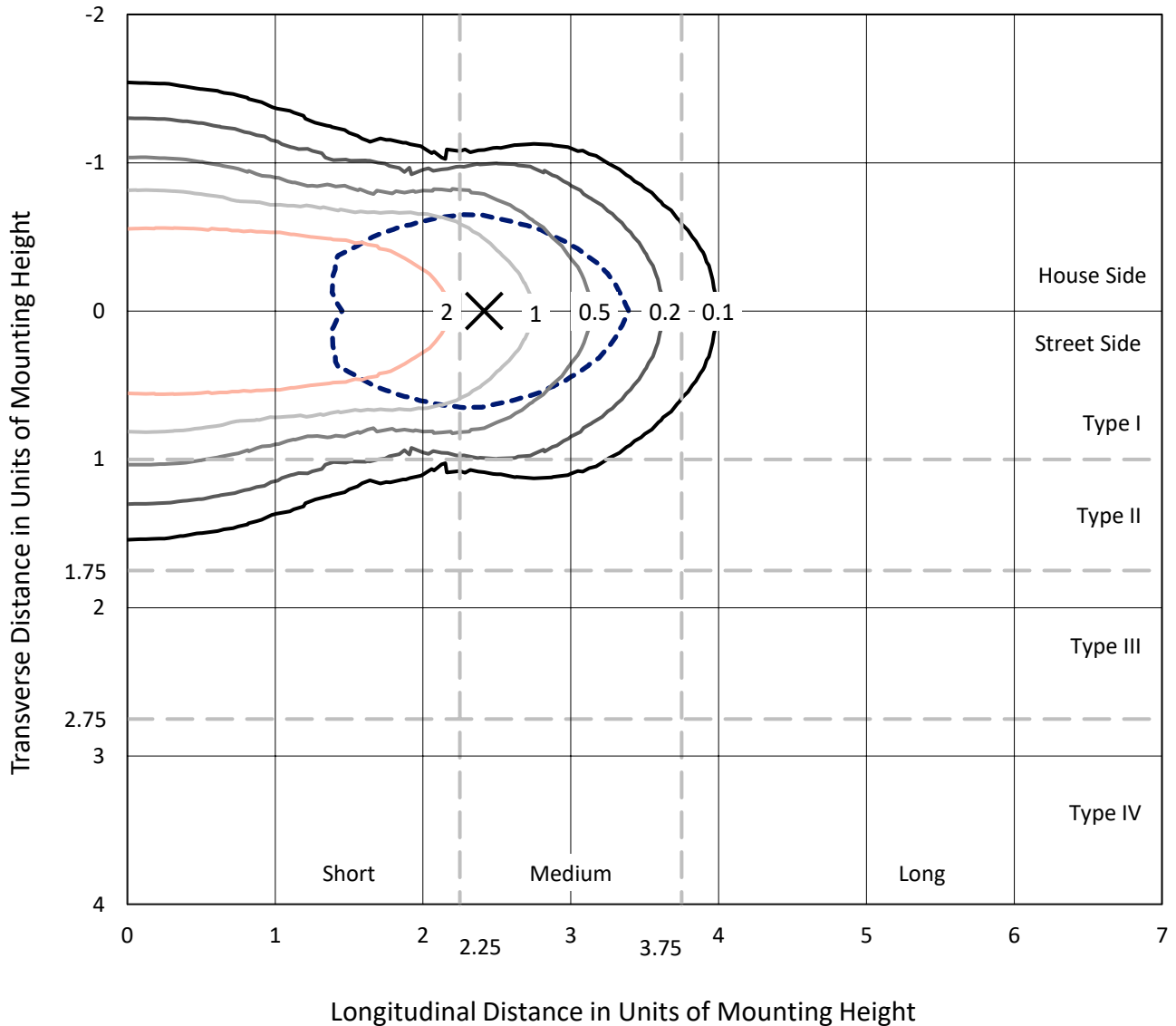
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

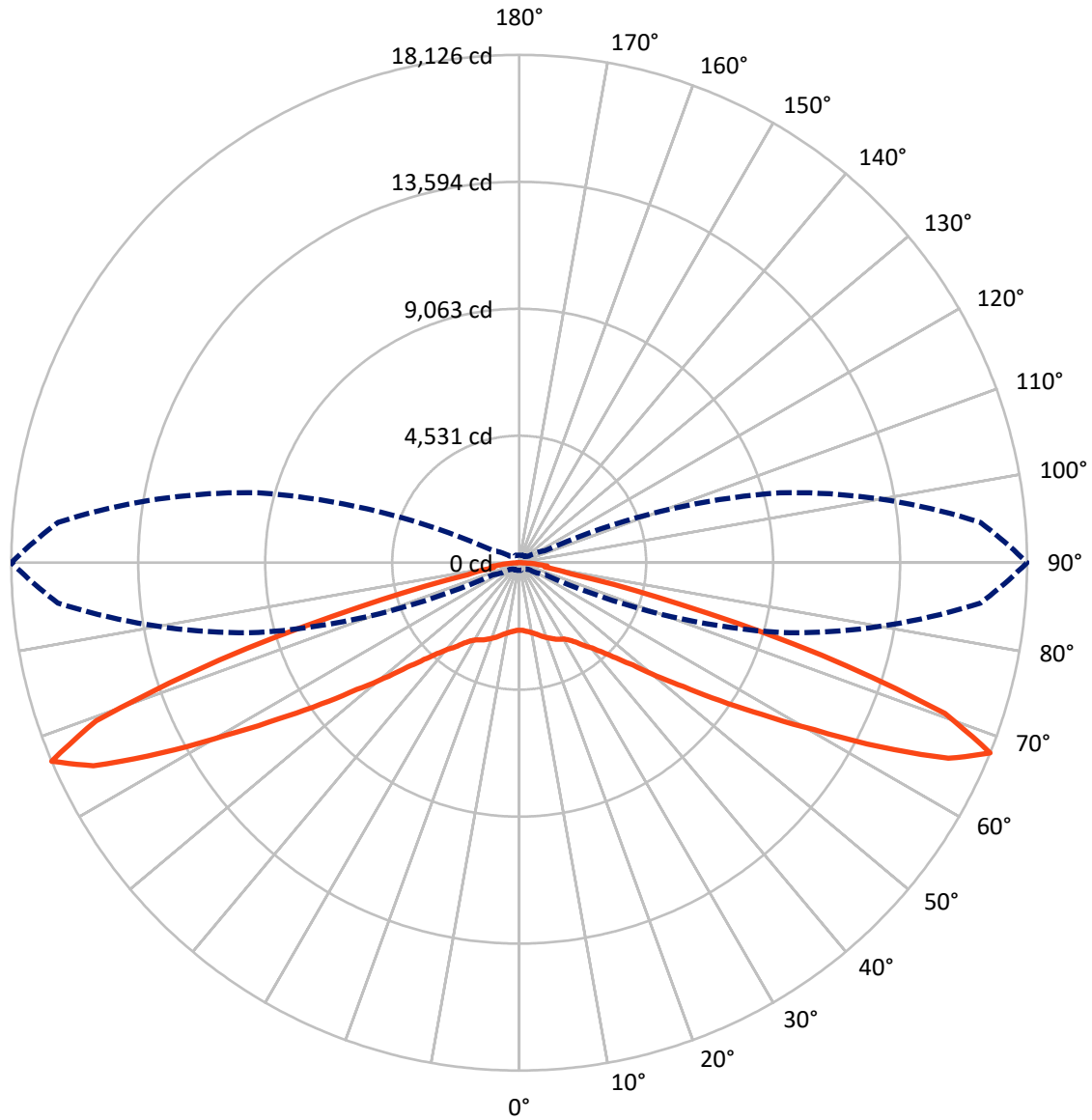
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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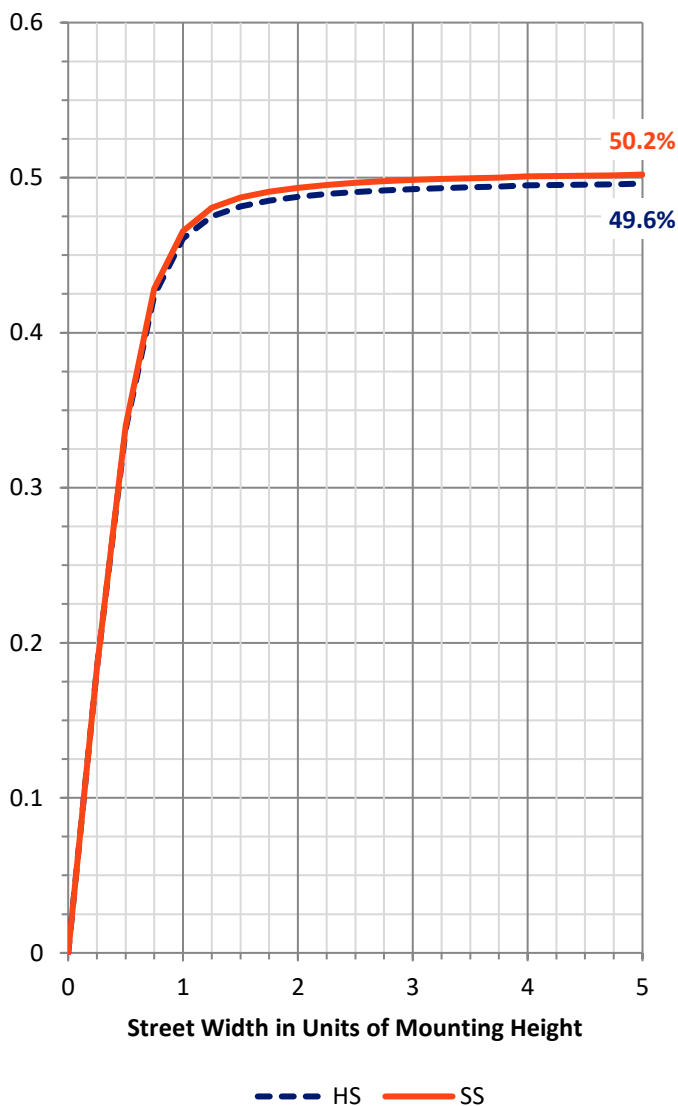
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6814.0 | 0.0 | 6814.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6814.0 | 0.0 | 6814.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 13628.0 | 0.0 | 13628.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 240.5 | 1.8 |
| 10°-20° | 769.6 | 5.6 |
| 20°-30° | 1288.1 | 9.5 |
| 30°-40° | 1745.0 | 12.8 |
| 40°-50° | 2210.3 | 16.2 |
| 50°-60° | 2761.3 | 20.3 |
| 60°-70° | 3245.7 | 23.8 |
| 70°-80° | 1241.6 | 9.1 |
| 80°-90° | 125.8 | 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° | 13628.0 | 100.0 |
| 0°-180° | 13628.0 | 100.0 |

Coefficient of Utilization



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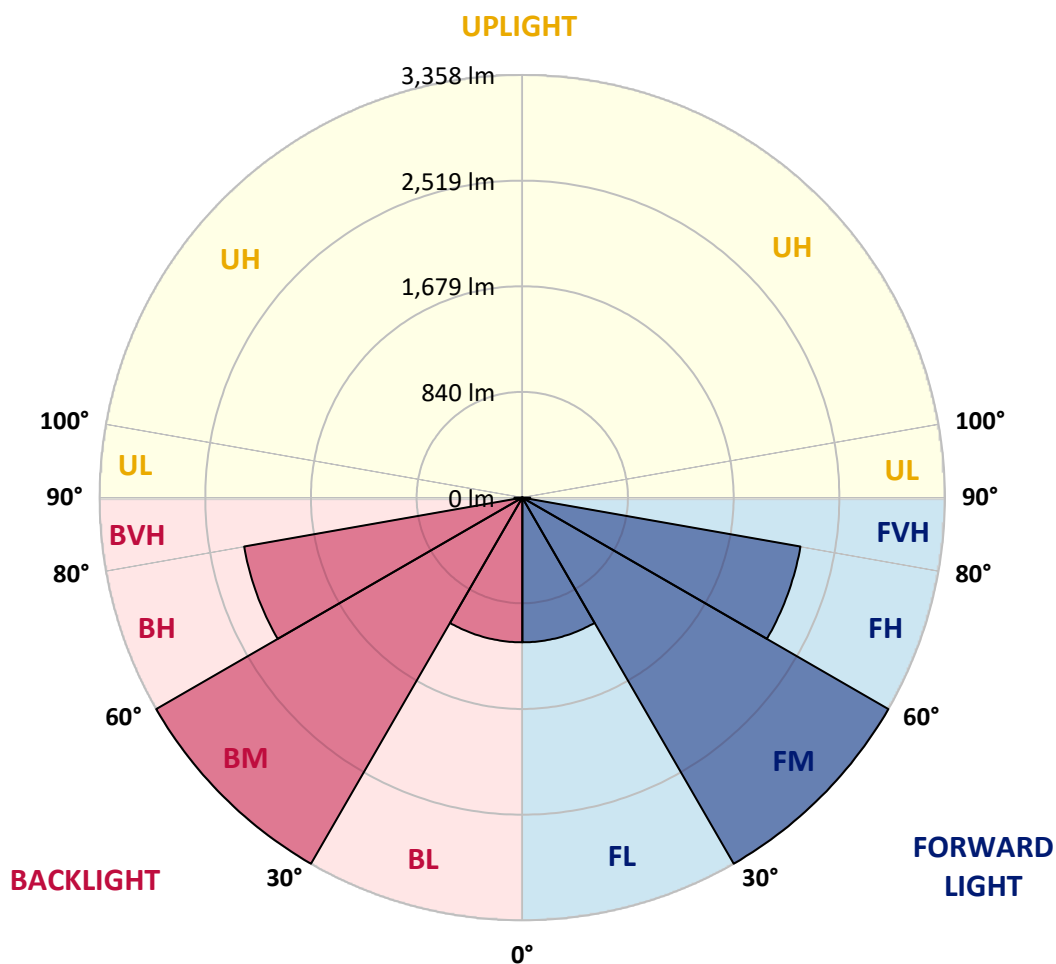
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1149.1 | 8.4 | | | |
| FM | (30°-60°) | 3358.3 | 24.6 | | | |
| FH | (60°-80°) | 2243.7 | 16.5 | | | G2/5000 |
| FVH | (80°-90°) | 62.9 | 0.5 | | | G1/100 |
| BL | (0°-30°) | 1149.1 | 8.4 | B3/2500 | | |
| BM | (30°-60°) | 3358.3 | 24.6 | B3/5000 | | |
| BH | (60°-80°) | 2243.7 | 16.5 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 62.9 | 0.5 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 2412.6 | 2412.6 | 2412.6 | 2412.6 | 2412.6 | 2412.6 | 2412.6 | 2412.6 | 2412.6 | 2412.6 | 2412.6 |
| 2.5° | 2443.5 | 2442.0 | 2442.8 | 2442.0 | 2444.3 | 2442.8 | 2433.7 | 2426.2 | 2420.1 | 2420.9 | 2418.6 |
| 5° | 2495.6 | 2496.3 | 2497.1 | 2493.3 | 2498.6 | 2495.6 | 2481.3 | 2469.2 | 2457.1 | 2452.6 | 2451.1 |
| 7.5° | 2538.6 | 2542.4 | 2544.6 | 2548.4 | 2557.5 | 2557.5 | 2549.9 | 2532.6 | 2506.2 | 2491.1 | 2490.3 |
| 10° | 2581.6 | 2584.6 | 2591.4 | 2603.5 | 2618.6 | 2632.9 | 2629.9 | 2606.5 | 2572.6 | 2546.9 | 2540.9 |
| 12.5° | 2596.7 | 2600.5 | 2623.1 | 2657.8 | 2691.8 | 2719.7 | 2719.7 | 2700.9 | 2657.1 | 2617.8 | 2606.5 |
| 15° | 2543.9 | 2550.7 | 2591.4 | 2665.4 | 2754.4 | 2815.6 | 2829.1 | 2802.7 | 2755.9 | 2695.6 | 2682.0 |
| 17.5° | 2439.0 | 2455.6 | 2515.2 | 2624.6 | 2772.5 | 2899.3 | 2938.6 | 2925.7 | 2865.4 | 2788.4 | 2772.5 |
| 20° | 2326.6 | 2344.7 | 2408.1 | 2552.9 | 2757.5 | 2948.4 | 3062.3 | 3065.3 | 2990.6 | 2878.9 | 2855.6 |
| 22.5° | 2202.8 | 2216.4 | 2297.9 | 2467.7 | 2712.2 | 2959.7 | 3168.7 | 3220.8 | 3119.7 | 2969.5 | 2936.3 |
| 25° | 2063.9 | 2079.0 | 2164.3 | 2347.7 | 2626.9 | 2946.9 | 3266.1 | 3380.8 | 3254.8 | 3066.1 | 3023.8 |
| 27.5° | 1931.1 | 1937.2 | 2028.5 | 2214.9 | 2514.5 | 2913.7 | 3337.8 | 3527.9 | 3404.2 | 3146.1 | 3092.5 |
| 30° | 1803.6 | 1817.9 | 1898.7 | 2082.8 | 2385.4 | 2848.8 | 3399.6 | 3695.5 | 3564.9 | 3229.9 | 3161.2 |
| 32.5° | 1668.5 | 1685.9 | 1773.4 | 1959.8 | 2256.4 | 2751.4 | 3437.4 | 3878.8 | 3789.0 | 3365.7 | 3292.5 |
| 35° | 1538.7 | 1550.0 | 1638.3 | 1819.4 | 2130.3 | 2638.2 | 3444.2 | 4085.6 | 4078.1 | 3571.7 | 3474.4 |
| 37.5° | 1405.9 | 1422.5 | 1511.5 | 1685.1 | 1996.8 | 2518.2 | 3410.2 | 4305.2 | 4426.7 | 3857.7 | 3752.8 |
| 40° | 1278.4 | 1292.7 | 1380.2 | 1555.3 | 1845.1 | 2371.8 | 3329.5 | 4505.9 | 4833.5 | 4152.0 | 4003.4 |
| 42.5° | 1139.5 | 1143.3 | 1239.1 | 1417.2 | 1696.4 | 2202.0 | 3213.3 | 4684.8 | 5287.0 | 4546.7 | 4361.8 |
| 45° | 981.8 | 991.6 | 1080.6 | 1255.7 | 1525.9 | 2011.9 | 3055.5 | 4832.7 | 5862.0 | 5093.8 | 4841.8 |
| 47.5° | 824.1 | 832.4 | 913.9 | 1086.7 | 1339.5 | 1793.8 | 2812.5 | 4962.5 | 6452.2 | 5788.8 | 5458.3 |
| 50° | 670.1 | 674.6 | 741.1 | 894.2 | 1129.7 | 1564.4 | 2511.4 | 5004.0 | 7119.3 | 6772.9 | 6351.0 |
| 52.5° | 529.8 | 536.5 | 587.1 | 707.1 | 905.6 | 1293.5 | 2186.2 | 4901.4 | 7898.0 | 7939.6 | 7344.9 |
| 55° | 429.4 | 431.7 | 469.4 | 557.7 | 707.9 | 1009.7 | 1793.8 | 4615.4 | 8735.7 | 9434.5 | 8676.1 |
| 57.5° | 369.8 | 371.3 | 392.4 | 441.5 | 544.8 | 761.4 | 1391.6 | 4074.3 | 9488.1 | 11186.0 | 10211.0 |
| 60° | 335.8 | 336.6 | 348.6 | 377.3 | 431.7 | 584.1 | 996.9 | 3310.6 | 10230.6 | 13135.2 | 12118.7 |
| 62.5° | 314.7 | 314.7 | 323.0 | 338.8 | 365.2 | 448.3 | 722.2 | 2388.4 | 10739.3 | 15113.2 | 14470.2 |
| 65° | 294.3 | 294.3 | 300.3 | 311.7 | 326.0 | 366.8 | 533.5 | 1557.6 | 10726.4 | 16553.8 | 16835.2 |
| 67.5° | 270.9 | 270.9 | 275.4 | 286.8 | 295.1 | 315.4 | 412.0 | 1020.3 | 9635.2 | 16522.1 | 18125.7 |
| 70° | 243.0 | 243.0 | 249.0 | 258.8 | 265.6 | 278.5 | 325.2 | 698.0 | 7078.5 | 14107.2 | 16119.8 |
| 72.5° | 215.1 | 215.8 | 219.6 | 229.4 | 234.7 | 242.2 | 270.2 | 489.0 | 4342.2 | 9605.8 | 11271.3 |
| 75° | 184.1 | 185.6 | 189.4 | 199.2 | 203.8 | 206.8 | 227.9 | 348.6 | 2196.8 | 5179.1 | 5896.7 |
| 77.5° | 148.7 | 151.7 | 153.9 | 164.5 | 167.5 | 172.1 | 187.9 | 252.0 | 964.4 | 1860.9 | 1877.5 |
| 80° | 108.7 | 112.4 | 119.2 | 129.0 | 131.3 | 134.3 | 143.4 | 178.8 | 436.9 | 849.7 | 922.9 |
| 82.5° | 80.0 | 85.3 | 77.0 | 89.8 | 89.8 | 86.0 | 101.1 | 120.0 | 200.7 | 841.4 | 1006.7 |
| 85° | 43.8 | 44.5 | 40.0 | 46.0 | 49.1 | 48.3 | 53.6 | 58.9 | 97.3 | 561.5 | 578.8 |
| 87.5° | 10.6 | 11.3 | 12.1 | 14.3 | 17.4 | 17.4 | 18.9 | 16.6 | 31.7 | 181.9 | 104.1 |
| 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)