

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: P529939

Luminaire Tested: **GALN-SA5A-827-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-827-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11566 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

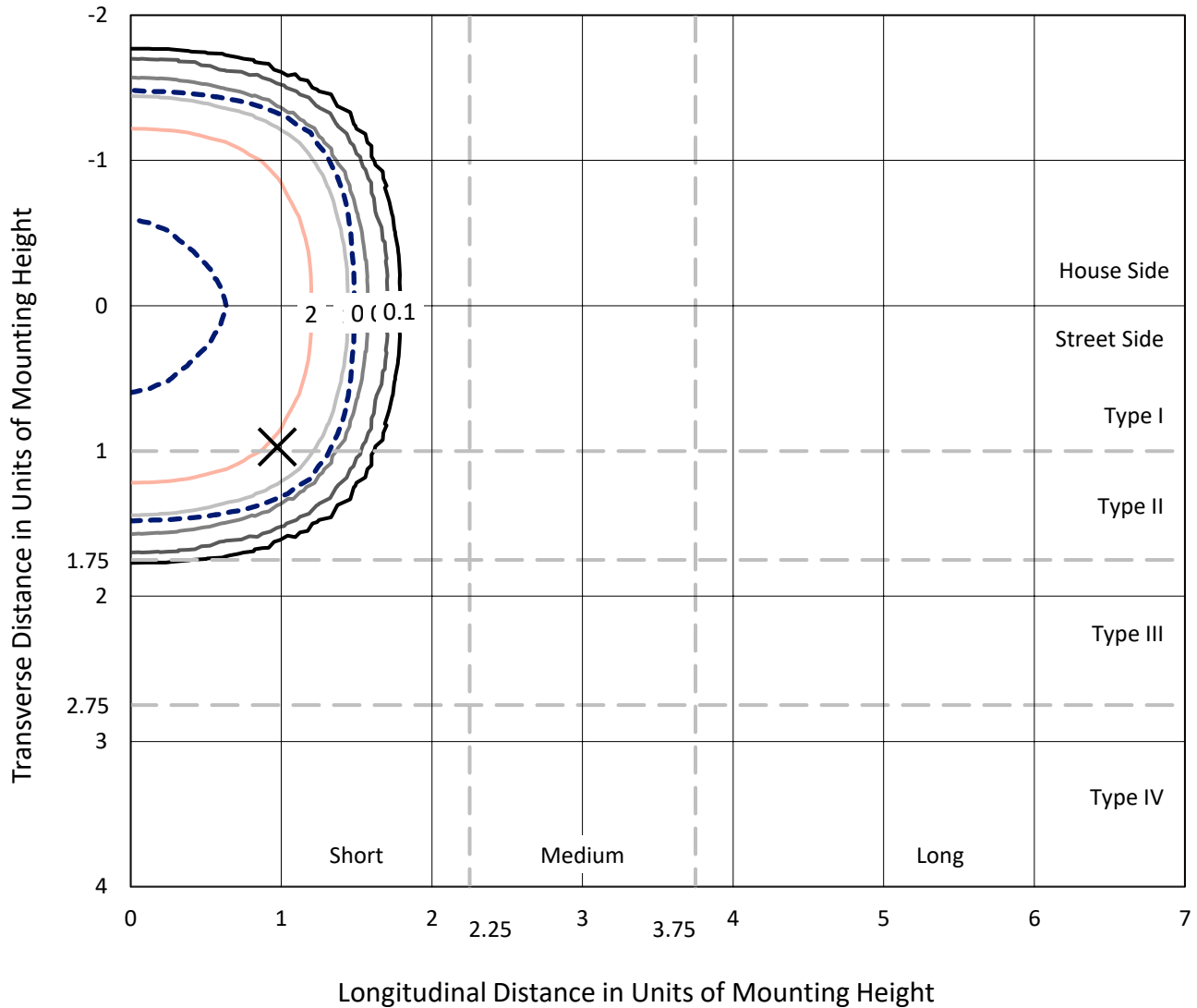
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

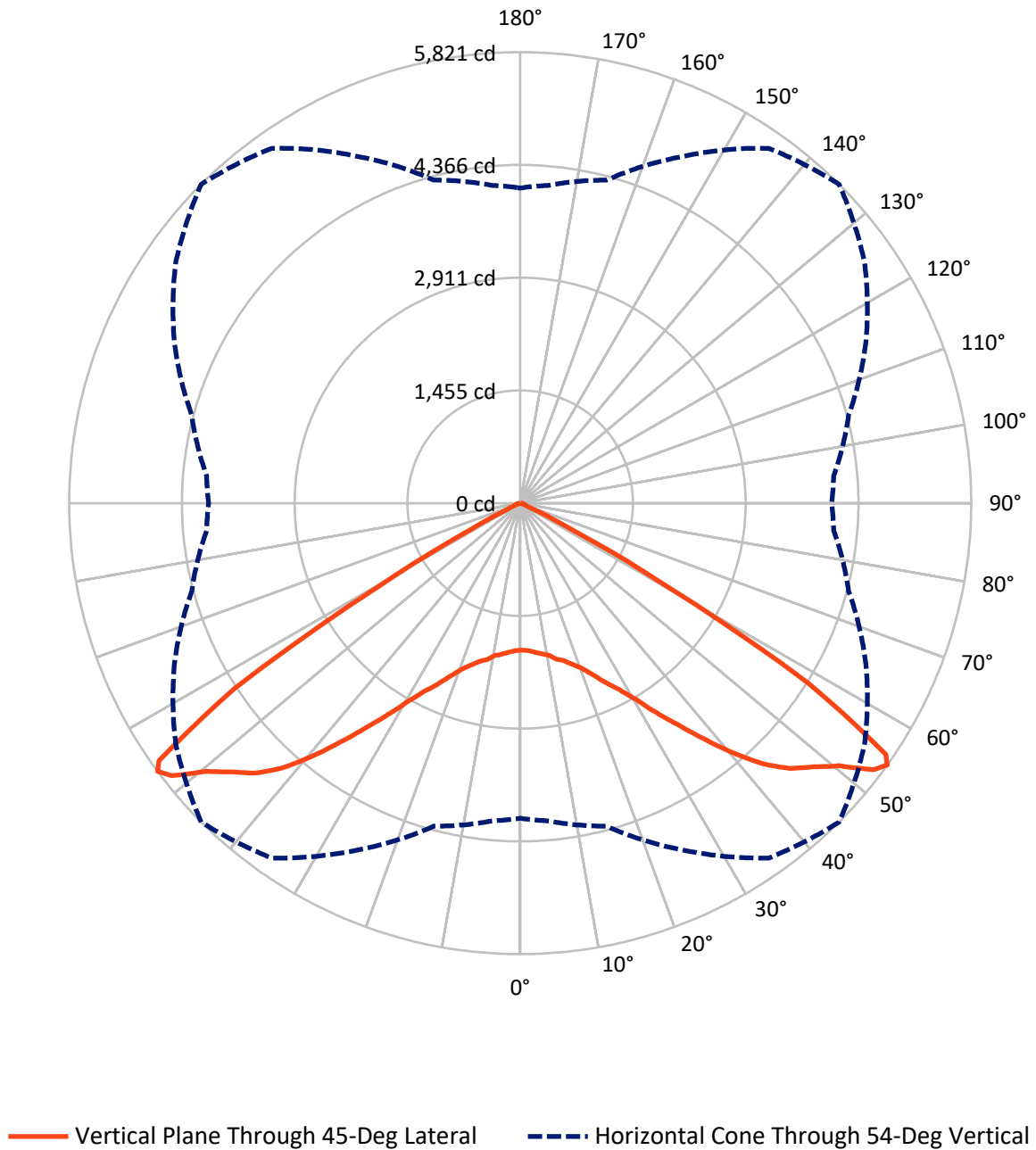
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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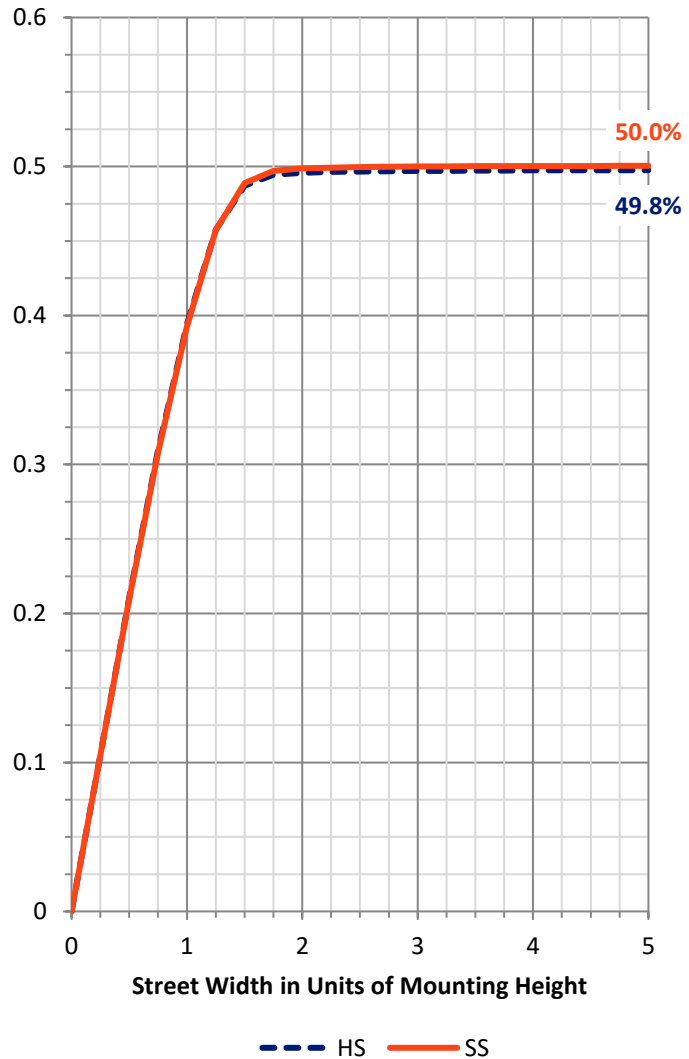
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5783.0 | 0.0 | 5783.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5783.0 | 0.0 | 5783.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 11566.0 | 0.0 | 11566.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 185.6 | 1.6 |
| 10°-20° | 601.1 | 5.2 |
| 20°-30° | 1178.1 | 10.2 |
| 30°-40° | 2118.5 | 18.3 |
| 40°-50° | 3626.5 | 31.4 |
| 50°-60° | 3509.0 | 30.3 |
| 60°-70° | 300.4 | 2.6 |
| 70°-80° | 35.6 | 0.3 |
| 80°-90° | 11.2 | 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° | 11566.0 | 100.0 |
| 0°-180° | 11566.0 | 100.0 |

Coefficient of Utilization



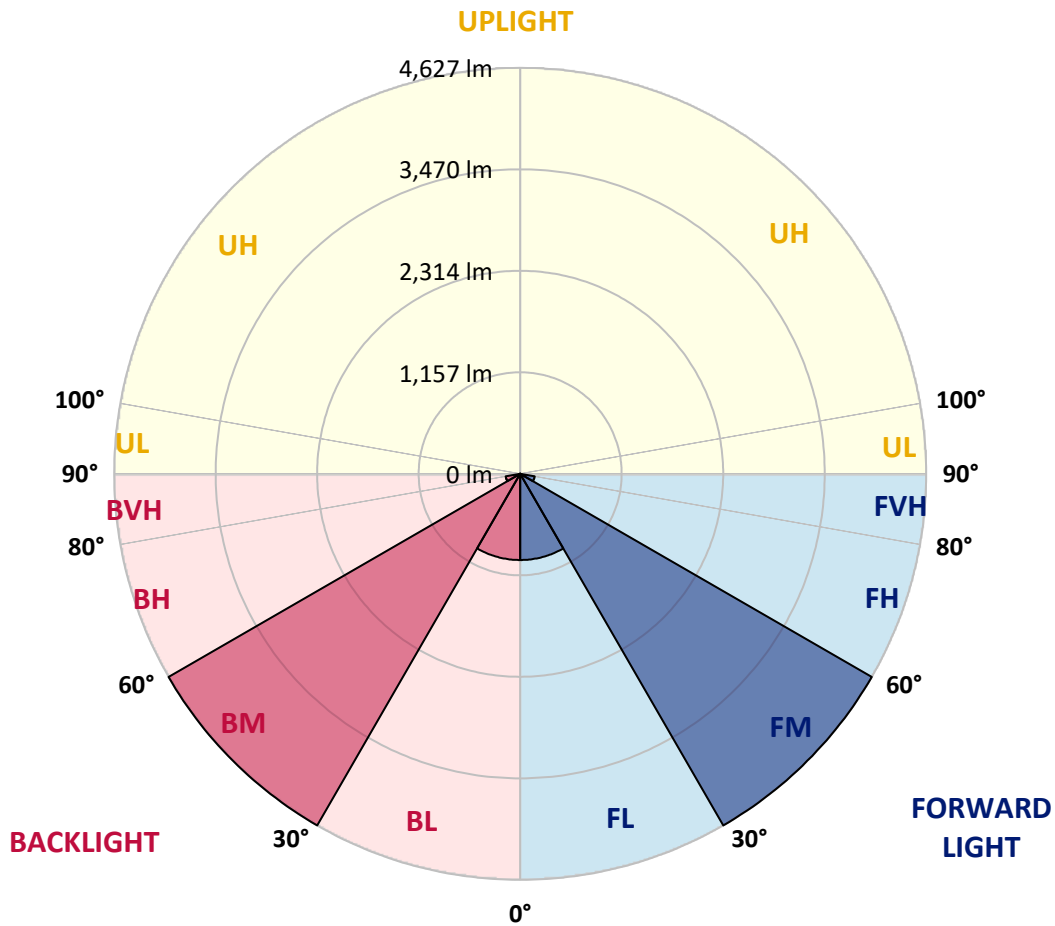
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 982.4 | 8.5 | | | |
| FM (30°-60°) | 4627.0 | 40.0 | | | |
| FH (60°-80°) | 168.0 | 1.5 | | | G0/660 |
| FVH (80°-90°) | 5.6 | 0.0 | | | G0/10 |
| BL (0°-30°) | 982.4 | 8.5 | B2/1000 | | |
| BM (30°-60°) | 4627.0 | 40.0 | B3/5000 | | |
| BH (60°-80°) | 168.0 | 1.5 | B1/500 | | G0/660 |
| BVH (80°-90°) | 5.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1896.5 | 1896.5 | 1896.5 | 1896.5 | 1896.5 | 1896.5 | 1896.5 | 1896.5 | 1896.5 | 1896.5 | 1896.5 |
| 2.5° | 1905.6 | 1916.6 | 1909.3 | 1914.8 | 1914.8 | 1905.6 | 1911.1 | 1889.1 | 1903.8 | 1892.8 | 1894.6 |
| 5° | 1934.9 | 1933.1 | 1933.1 | 1934.9 | 1927.6 | 1931.3 | 1923.9 | 1916.6 | 1911.1 | 1903.8 | 1925.8 |
| 7.5° | 1971.6 | 1971.6 | 1958.8 | 1962.4 | 1958.8 | 1964.3 | 1949.6 | 1934.9 | 1929.4 | 1923.9 | 1920.3 |
| 10° | 2006.4 | 2002.7 | 1997.2 | 2013.7 | 2000.9 | 1993.6 | 1986.2 | 1977.1 | 1956.9 | 1949.6 | 1942.3 |
| 12.5° | 2057.7 | 2055.9 | 2048.5 | 2065.0 | 2057.7 | 2065.0 | 2037.6 | 2013.7 | 2010.1 | 1986.2 | 1999.1 |
| 15° | 2118.2 | 2134.7 | 2121.8 | 2121.8 | 2118.2 | 2109.0 | 2098.0 | 2087.0 | 2054.0 | 2044.9 | 2046.7 |
| 17.5° | 2197.0 | 2191.5 | 2193.3 | 2193.3 | 2211.6 | 2187.8 | 2165.8 | 2138.3 | 2121.8 | 2116.3 | 2098.0 |
| 20° | 2272.1 | 2279.4 | 2277.6 | 2290.4 | 2301.4 | 2275.8 | 2251.9 | 2248.3 | 2202.5 | 2209.8 | 2184.1 |
| 22.5° | 2404.0 | 2398.5 | 2407.7 | 2416.8 | 2409.5 | 2405.9 | 2383.9 | 2356.4 | 2316.1 | 2297.7 | 2294.1 |
| 25° | 2543.3 | 2534.1 | 2517.6 | 2539.6 | 2550.6 | 2567.1 | 2525.0 | 2510.3 | 2448.0 | 2420.5 | 2422.3 |
| 27.5° | 2662.4 | 2675.2 | 2693.5 | 2702.7 | 2730.2 | 2724.7 | 2695.4 | 2647.7 | 2600.1 | 2568.9 | 2548.8 |
| 30° | 2825.5 | 2832.8 | 2863.9 | 2876.8 | 2924.4 | 2937.2 | 2891.4 | 2836.4 | 2752.2 | 2711.9 | 2688.0 |
| 32.5° | 2975.7 | 3027.0 | 3025.2 | 3089.3 | 3166.3 | 3219.4 | 3137.0 | 3052.7 | 2968.4 | 2920.7 | 2878.6 |
| 35° | 3219.4 | 3210.2 | 3263.4 | 3331.2 | 3455.8 | 3516.2 | 3426.5 | 3329.3 | 3201.1 | 3124.1 | 3091.1 |
| 37.5° | 3446.6 | 3450.3 | 3521.7 | 3629.8 | 3772.8 | 3866.2 | 3787.4 | 3628.0 | 3496.1 | 3397.1 | 3351.3 |
| 40° | 3776.4 | 3783.8 | 3857.1 | 3979.8 | 4141.1 | 4241.8 | 4150.2 | 3989.0 | 3813.1 | 3736.1 | 3736.1 |
| 42.5° | 4163.1 | 4194.2 | 4241.8 | 4348.1 | 4492.9 | 4604.7 | 4522.2 | 4395.8 | 4218.0 | 4119.1 | 4133.7 |
| 45° | 4560.7 | 4575.3 | 4606.5 | 4764.1 | 4831.9 | 4886.8 | 4809.9 | 4751.2 | 4632.1 | 4511.2 | 4491.0 |
| 47.5° | 4932.6 | 4938.1 | 5029.8 | 5079.2 | 5132.4 | 5086.6 | 5136.0 | 5059.1 | 4925.3 | 4808.0 | 4784.2 |
| 50° | 5097.5 | 5088.4 | 5218.5 | 5368.7 | 5409.0 | 5328.4 | 5286.3 | 5235.0 | 5031.6 | 4890.5 | 4828.2 |
| 52.5° | 4617.5 | 4670.6 | 4912.5 | 5330.3 | 5645.4 | 5713.2 | 5467.7 | 5231.3 | 4852.0 | 4577.2 | 4535.0 |
| 54° | 4067.8 | 4117.3 | 4317.0 | 4936.3 | 5592.3 | 5821.3 | 5425.5 | 4923.5 | 4388.4 | 4062.3 | 4020.1 |
| 55° | 3523.6 | 3468.6 | 3831.4 | 4463.6 | 5343.1 | 5726.0 | 5258.8 | 4525.9 | 3913.9 | 3615.2 | 3556.6 |
| 57.5° | 1907.5 | 1916.6 | 2222.6 | 2820.0 | 3754.4 | 4390.3 | 3877.2 | 3061.8 | 2312.4 | 1977.1 | 1947.8 |
| 60° | 604.7 | 619.3 | 753.1 | 1139.7 | 1793.9 | 2142.0 | 1836.0 | 1229.5 | 850.2 | 681.6 | 654.1 |
| 62.5° | 188.7 | 196.1 | 214.4 | 318.8 | 491.1 | 701.8 | 549.7 | 329.8 | 245.5 | 225.4 | 229.0 |
| 65° | 115.4 | 115.4 | 117.3 | 124.6 | 146.6 | 170.4 | 164.9 | 144.8 | 139.3 | 135.6 | 133.8 |
| 67.5° | 75.1 | 73.3 | 77.0 | 82.5 | 86.1 | 88.0 | 93.4 | 98.9 | 97.1 | 93.4 | 93.4 |
| 70° | 45.8 | 44.0 | 47.6 | 55.0 | 56.8 | 60.5 | 66.0 | 73.3 | 71.5 | 67.8 | 69.6 |
| 72.5° | 25.7 | 25.7 | 27.5 | 33.0 | 38.5 | 42.1 | 47.6 | 53.1 | 55.0 | 53.1 | 53.1 |
| 75° | 9.2 | 11.0 | 14.7 | 20.2 | 23.8 | 29.3 | 34.8 | 40.3 | 45.8 | 42.1 | 40.3 |
| 77.5° | 3.7 | 3.7 | 7.3 | 12.8 | 18.3 | 23.8 | 33.0 | 38.5 | 42.1 | 38.5 | 34.8 |
| 80° | 1.8 | 1.8 | 5.5 | 11.0 | 16.5 | 22.0 | 27.5 | 33.0 | 34.8 | 31.1 | 27.5 |
| 82.5° | 1.8 | 1.8 | 5.5 | 11.0 | 16.5 | 20.2 | 29.3 | 33.0 | 36.6 | 33.0 | 27.5 |
| 85° | 0.0 | 1.8 | 5.5 | 11.0 | 14.7 | 16.5 | 16.5 | 11.0 | 9.2 | 5.5 | 5.5 |
| 87.5° | 0.0 | 0.0 | 1.8 | 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)