

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: P528977

Luminaire Tested: **GLAN-SA4A-760-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528977
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: STREETWORKS
Catalog Number: GLAN-SA4A-760-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 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: 12428 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

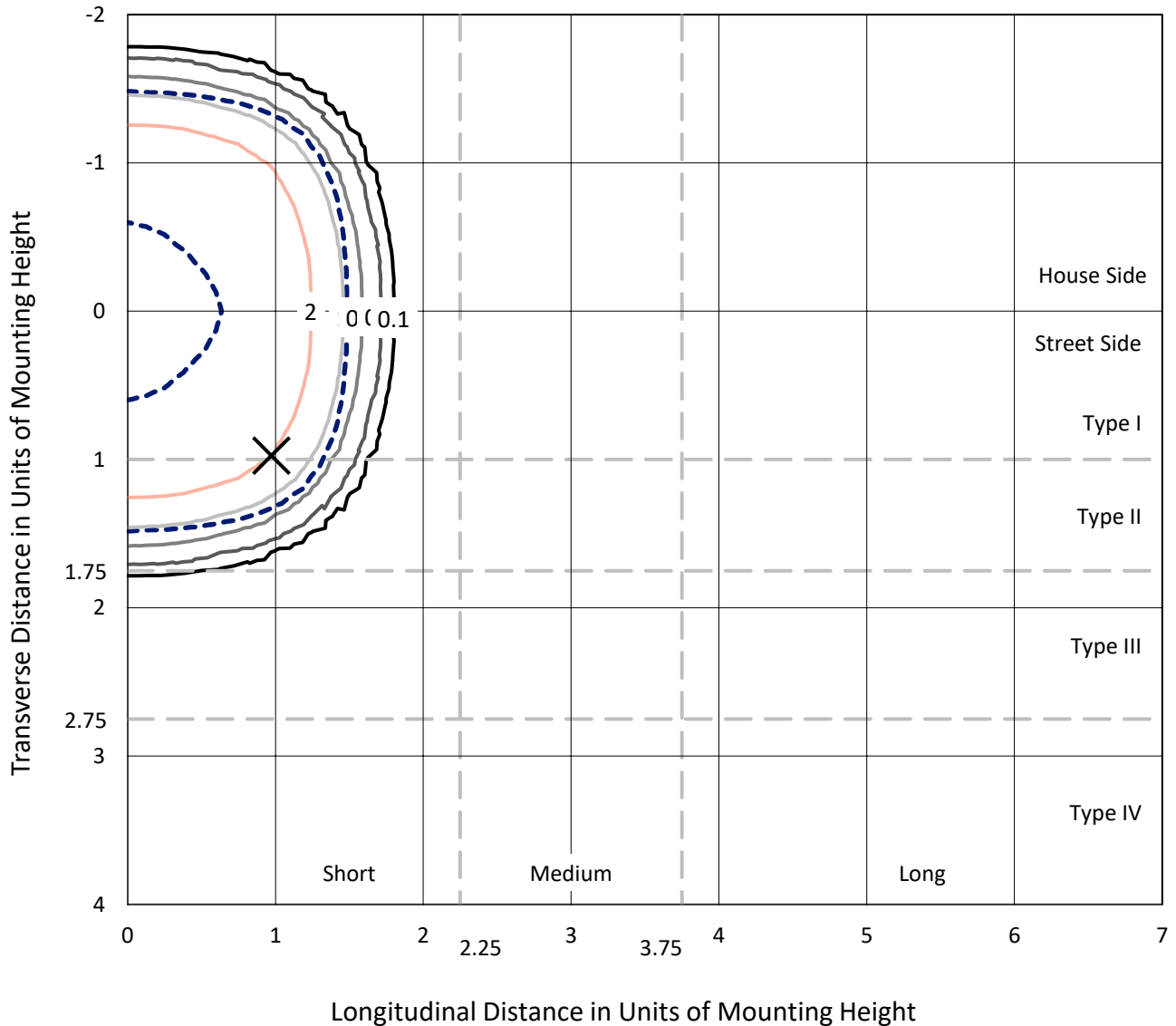
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

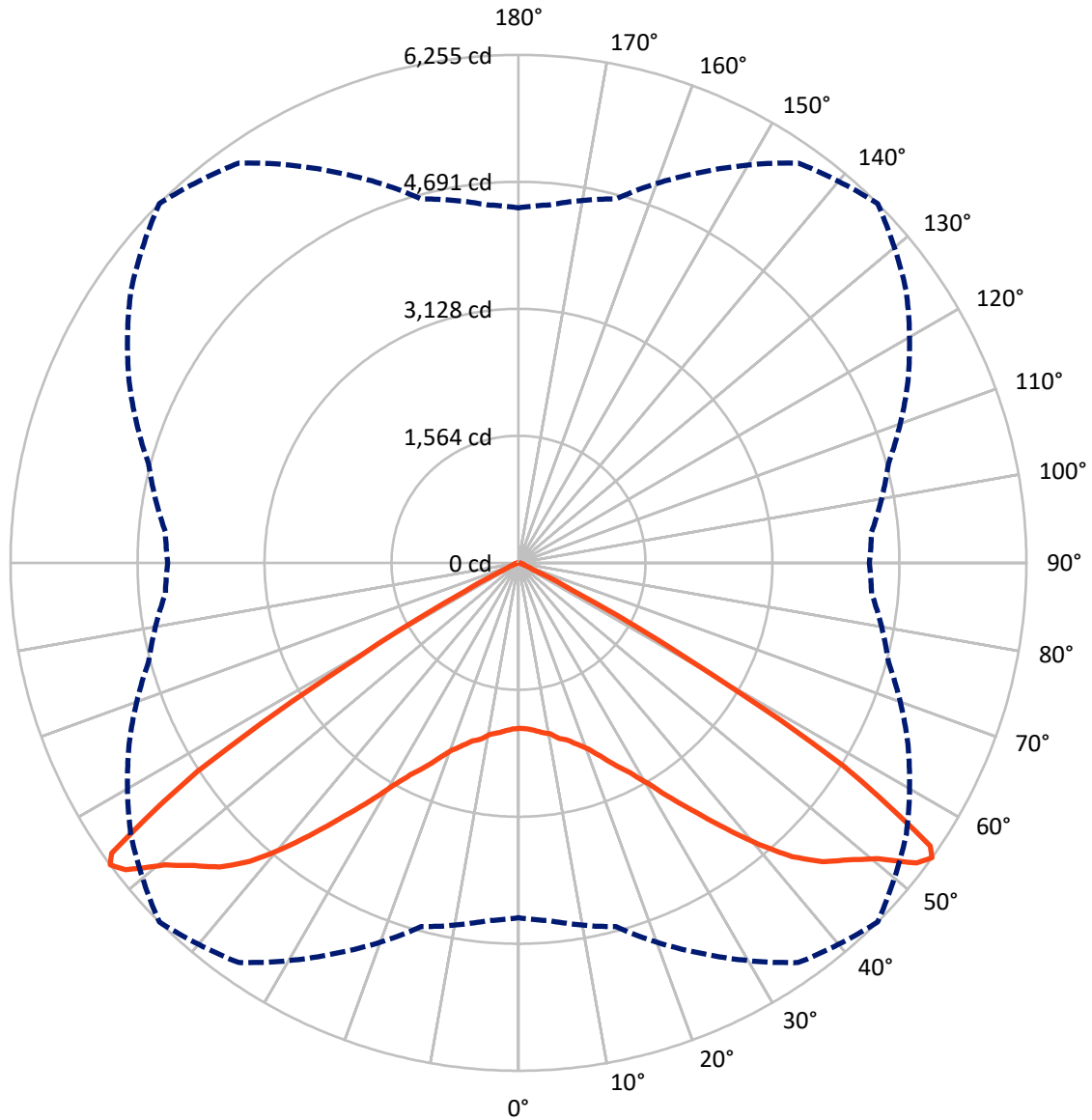
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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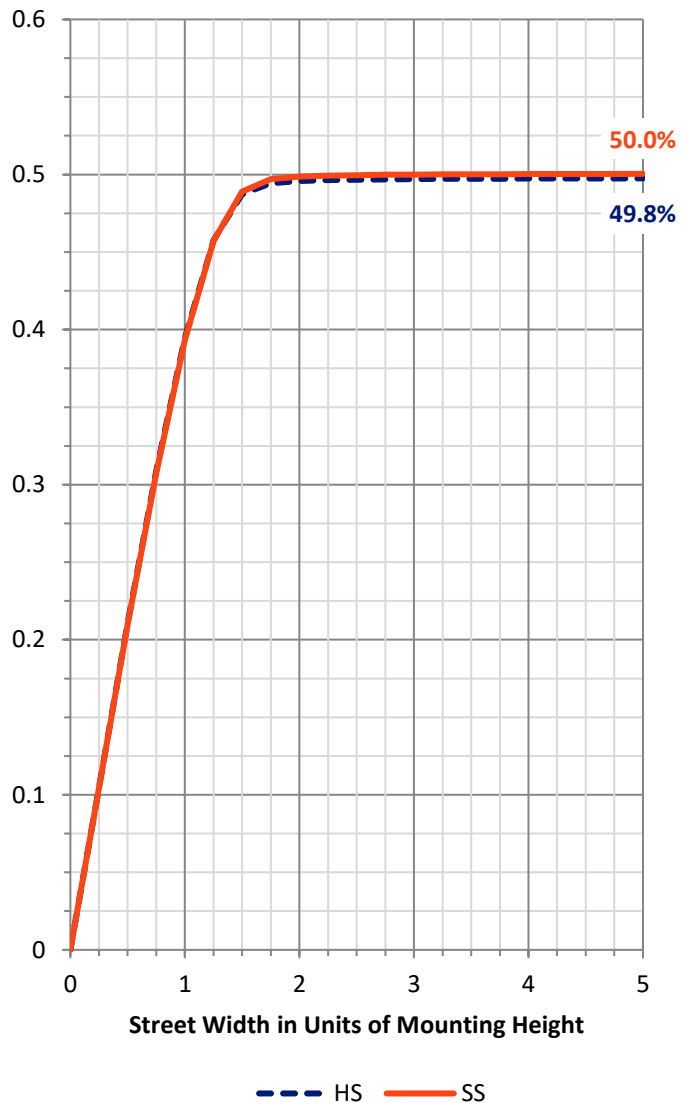
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6214.0 | 0.0 | 6214.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6214.0 | 0.0 | 6214.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 12428.0 | 0.0 | 12428.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 199.5 | 1.6 |
| 10°-20° | 645.9 | 5.2 |
| 20°-30° | 1265.9 | 10.2 |
| 30°-40° | 2276.4 | 18.3 |
| 40°-50° | 3896.8 | 31.4 |
| 50°-60° | 3770.5 | 30.3 |
| 60°-70° | 322.8 | 2.6 |
| 70°-80° | 38.3 | 0.3 |
| 80°-90° | 12.0 | 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° | 12428.0 | 100.0 |
| 0°-180° | 12428.0 | 100.0 |

Coefficient of Utilization

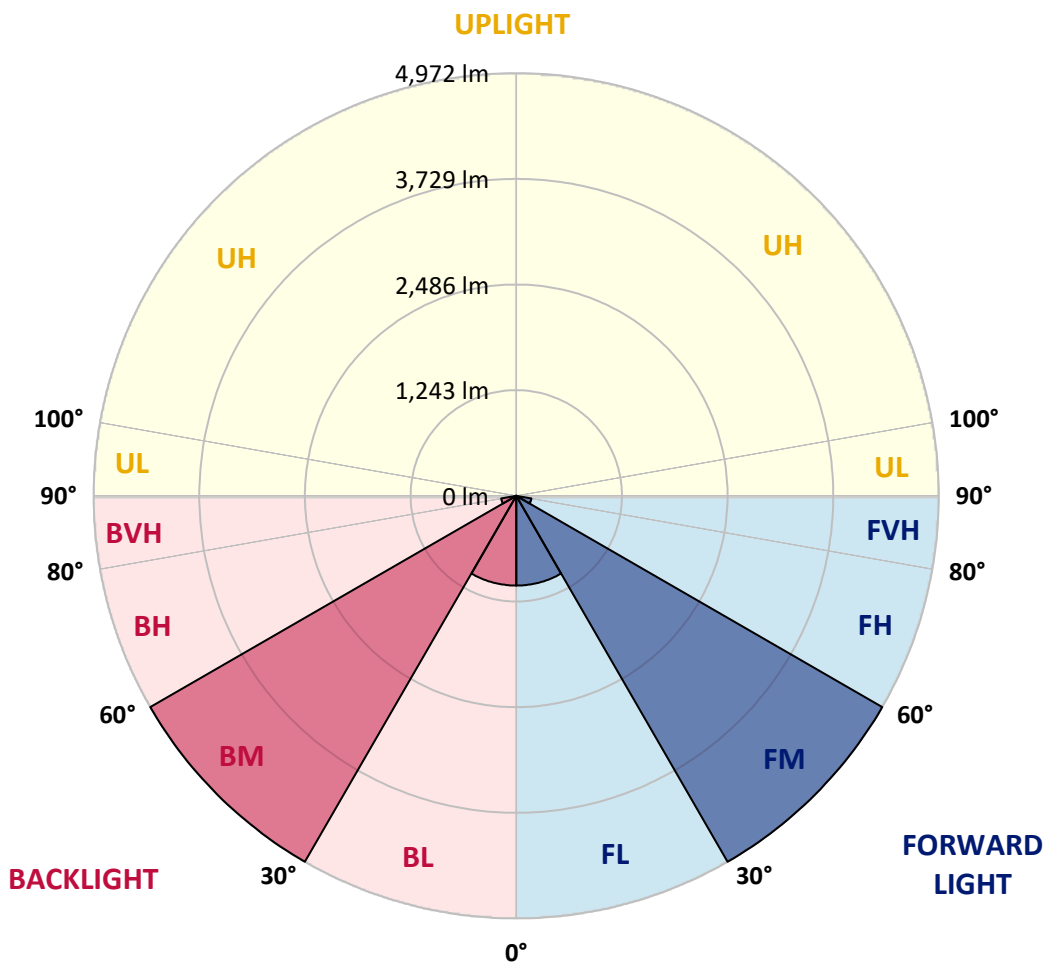


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1055.6 | 8.5 | | | |
| FM (30°-60°) | 4971.8 | 40.0 | | | |
| FH (60°-80°) | 180.5 | 1.5 | | | G0/660 |
| FVH (80°-90°) | 6.0 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1055.6 | 8.5 | B3/2500 | | |
| BM (30°-60°) | 4971.8 | 40.0 | B3/5000 | | |
| BH (60°-80°) | 180.5 | 1.5 | B1/500 | | G0/660 |
| BVH (80°-90°) | 6.0 | 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° | 2037.8 | 2037.8 | 2037.8 | 2037.8 | 2037.8 | 2037.8 | 2037.8 | 2037.8 | 2037.8 | 2037.8 | 2037.8 |
| 2.5° | 2047.6 | 2059.5 | 2051.6 | 2057.5 | 2057.5 | 2047.6 | 2053.6 | 2029.9 | 2045.7 | 2033.9 | 2035.8 |
| 5° | 2079.2 | 2077.2 | 2077.2 | 2079.2 | 2071.3 | 2075.2 | 2067.3 | 2059.5 | 2053.6 | 2045.7 | 2069.3 |
| 7.5° | 2118.5 | 2118.5 | 2104.7 | 2108.7 | 2104.7 | 2110.7 | 2094.9 | 2079.2 | 2073.2 | 2067.3 | 2063.4 |
| 10° | 2155.9 | 2152.0 | 2146.1 | 2163.8 | 2150.0 | 2142.2 | 2134.3 | 2124.4 | 2102.8 | 2094.9 | 2087.0 |
| 12.5° | 2211.1 | 2209.1 | 2201.2 | 2218.9 | 2211.1 | 2218.9 | 2189.4 | 2163.8 | 2159.9 | 2134.3 | 2148.1 |
| 15° | 2276.0 | 2293.8 | 2280.0 | 2280.0 | 2276.0 | 2266.2 | 2254.4 | 2242.6 | 2207.1 | 2197.3 | 2199.3 |
| 17.5° | 2360.7 | 2354.8 | 2356.8 | 2356.8 | 2376.5 | 2350.9 | 2327.2 | 2297.7 | 2280.0 | 2274.1 | 2254.4 |
| 20° | 2441.4 | 2449.3 | 2447.3 | 2461.1 | 2472.9 | 2445.4 | 2419.8 | 2415.8 | 2366.6 | 2374.5 | 2346.9 |
| 22.5° | 2583.2 | 2577.3 | 2587.1 | 2597.0 | 2589.1 | 2585.2 | 2561.5 | 2532.0 | 2488.7 | 2469.0 | 2465.1 |
| 25° | 2732.8 | 2723.0 | 2705.3 | 2728.9 | 2740.7 | 2758.4 | 2713.1 | 2697.4 | 2630.4 | 2600.9 | 2602.9 |
| 27.5° | 2860.8 | 2874.6 | 2894.3 | 2904.1 | 2933.7 | 2927.7 | 2896.2 | 2845.1 | 2793.9 | 2760.4 | 2738.7 |
| 30° | 3036.0 | 3043.9 | 3077.4 | 3091.2 | 3142.4 | 3156.1 | 3106.9 | 3047.8 | 2957.3 | 2914.0 | 2888.4 |
| 32.5° | 3197.5 | 3252.6 | 3250.6 | 3319.6 | 3402.2 | 3459.3 | 3370.7 | 3280.2 | 3189.6 | 3138.4 | 3093.1 |
| 35° | 3459.3 | 3449.5 | 3506.6 | 3579.4 | 3713.3 | 3778.3 | 3681.8 | 3577.5 | 3439.7 | 3357.0 | 3321.5 |
| 37.5° | 3703.5 | 3707.4 | 3784.2 | 3900.4 | 4054.0 | 4154.4 | 4069.7 | 3898.4 | 3756.6 | 3650.3 | 3601.1 |
| 40° | 4057.9 | 4065.8 | 4144.5 | 4276.4 | 4449.7 | 4558.0 | 4459.5 | 4286.3 | 4097.3 | 4014.6 | 4014.6 |
| 42.5° | 4473.3 | 4506.8 | 4558.0 | 4672.2 | 4827.7 | 4947.8 | 4859.2 | 4723.4 | 4532.4 | 4426.1 | 4441.8 |
| 45° | 4900.6 | 4916.3 | 4949.8 | 5119.1 | 5192.0 | 5251.0 | 5168.3 | 5105.3 | 4977.4 | 4847.4 | 4825.8 |
| 47.5° | 5300.3 | 5306.2 | 5404.6 | 5457.8 | 5514.9 | 5465.6 | 5518.8 | 5436.1 | 5292.4 | 5166.4 | 5140.8 |
| 50° | 5477.5 | 5467.6 | 5607.4 | 5768.9 | 5812.2 | 5725.5 | 5680.3 | 5625.1 | 5406.6 | 5255.0 | 5188.0 |
| 52.5° | 4961.6 | 5018.7 | 5278.6 | 5727.5 | 6066.2 | 6139.0 | 5875.2 | 5621.2 | 5213.6 | 4918.3 | 4873.0 |
| 54° | 4370.9 | 4424.1 | 4638.7 | 5304.2 | 6009.1 | 6255.2 | 5829.9 | 5290.4 | 4715.5 | 4365.0 | 4319.8 |
| 55° | 3786.2 | 3727.1 | 4117.0 | 4796.2 | 5741.3 | 6152.8 | 5650.7 | 4863.2 | 4205.6 | 3884.6 | 3821.6 |
| 57.5° | 2049.6 | 2059.5 | 2388.3 | 3030.1 | 4034.3 | 4717.5 | 4166.2 | 3290.0 | 2484.7 | 2124.4 | 2092.9 |
| 60° | 649.7 | 665.5 | 809.2 | 1224.7 | 1927.5 | 2301.6 | 1972.8 | 1321.1 | 913.6 | 732.4 | 702.9 |
| 62.5° | 202.8 | 210.7 | 230.4 | 342.6 | 527.7 | 754.1 | 590.7 | 354.4 | 263.8 | 242.2 | 246.1 |
| 65° | 124.0 | 124.0 | 126.0 | 133.9 | 157.5 | 183.1 | 177.2 | 155.5 | 149.6 | 145.7 | 143.7 |
| 67.5° | 80.7 | 78.8 | 82.7 | 88.6 | 92.5 | 94.5 | 100.4 | 106.3 | 104.4 | 100.4 | 100.4 |
| 70° | 49.2 | 47.3 | 51.2 | 59.1 | 61.0 | 65.0 | 70.9 | 78.8 | 76.8 | 72.8 | 74.8 |
| 72.5° | 27.6 | 27.6 | 29.5 | 35.4 | 41.3 | 45.3 | 51.2 | 57.1 | 59.1 | 57.1 | 57.1 |
| 75° | 9.8 | 11.8 | 15.8 | 21.7 | 25.6 | 31.5 | 37.4 | 43.3 | 49.2 | 45.3 | 43.3 |
| 77.5° | 3.9 | 3.9 | 7.9 | 13.8 | 19.7 | 25.6 | 35.4 | 41.3 | 45.3 | 41.3 | 37.4 |
| 80° | 2.0 | 2.0 | 5.9 | 11.8 | 17.7 | 23.6 | 29.5 | 35.4 | 37.4 | 33.5 | 29.5 |
| 82.5° | 2.0 | 2.0 | 5.9 | 11.8 | 17.7 | 21.7 | 31.5 | 35.4 | 39.4 | 35.4 | 29.5 |
| 85° | 0.0 | 2.0 | 5.9 | 11.8 | 15.8 | 17.7 | 17.7 | 11.8 | 9.8 | 5.9 | 5.9 |
| 87.5° | 0.0 | 0.0 | 2.0 | 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)