

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: P529495

Luminaire Tested: **GLAN-SA4C-830-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529495
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4C-830-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13263 lumens
Efficiency: N/A
Efficacy: 62.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

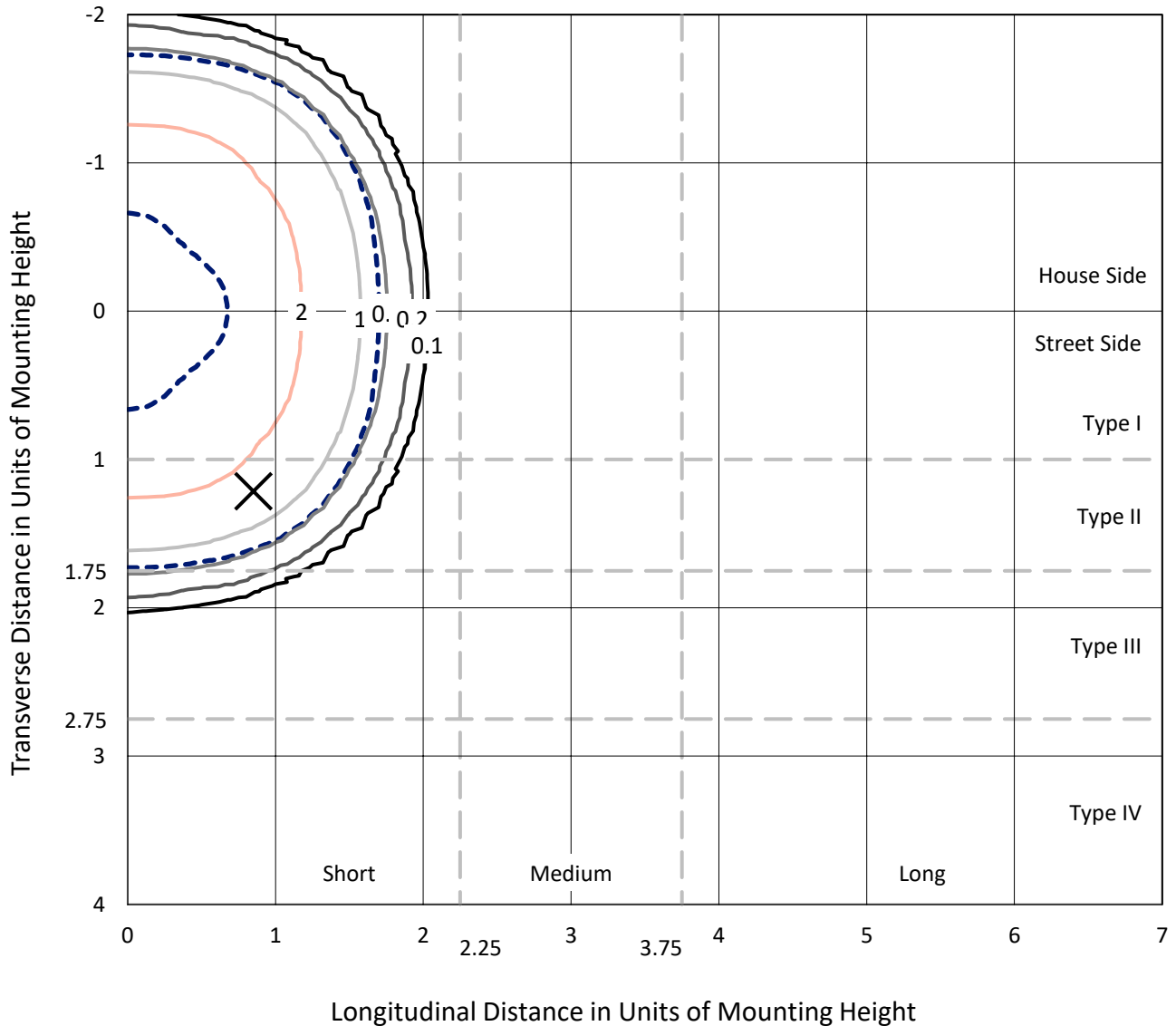
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529495
 CATALOG NUMBER: GLAN-SA4C-830-U-5MQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

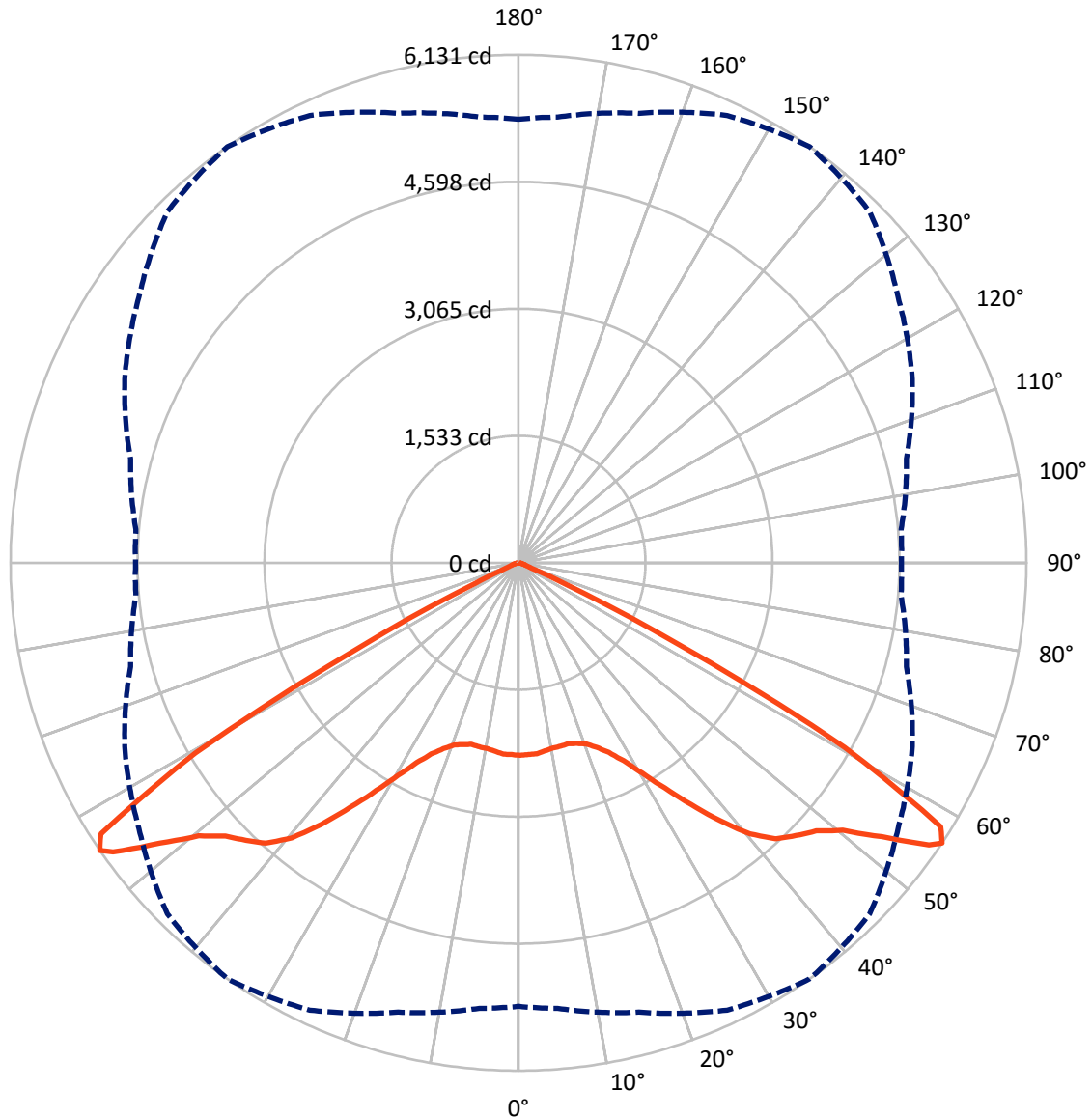
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - N/A

REPORT NUMBER: P529495
CATALOG NUMBER: GLAN-SA4C-830-U-5MQ-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P529495
 CATALOG NUMBER: GLAN-SA4C-830-U-5MQ-GRSBK

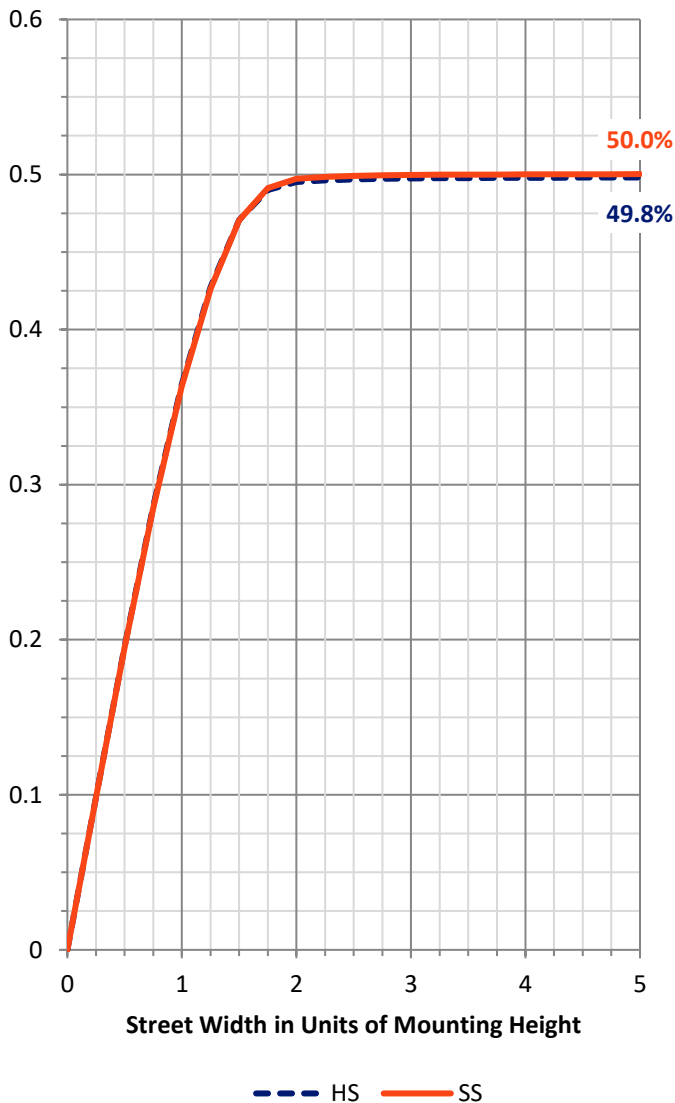
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6631.5 | 0.0 | 6631.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6631.5 | 0.0 | 6631.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 13263.0 | 0.0 | 13263.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 218.4 | 1.6 |
| 10°-20° | 637.7 | 4.8 |
| 20°-30° | 1154.7 | 8.7 |
| 30°-40° | 2141.3 | 16.1 |
| 40°-50° | 3514.8 | 26.5 |
| 50°-60° | 4528.1 | 34.1 |
| 60°-70° | 997.9 | 7.5 |
| 70°-80° | 57.9 | 0.4 |
| 80°-90° | 12.2 | 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° | 13263.0 | 100.0 |
| 0°-180° | 13263.0 | 100.0 |

Coefficient of Utilization

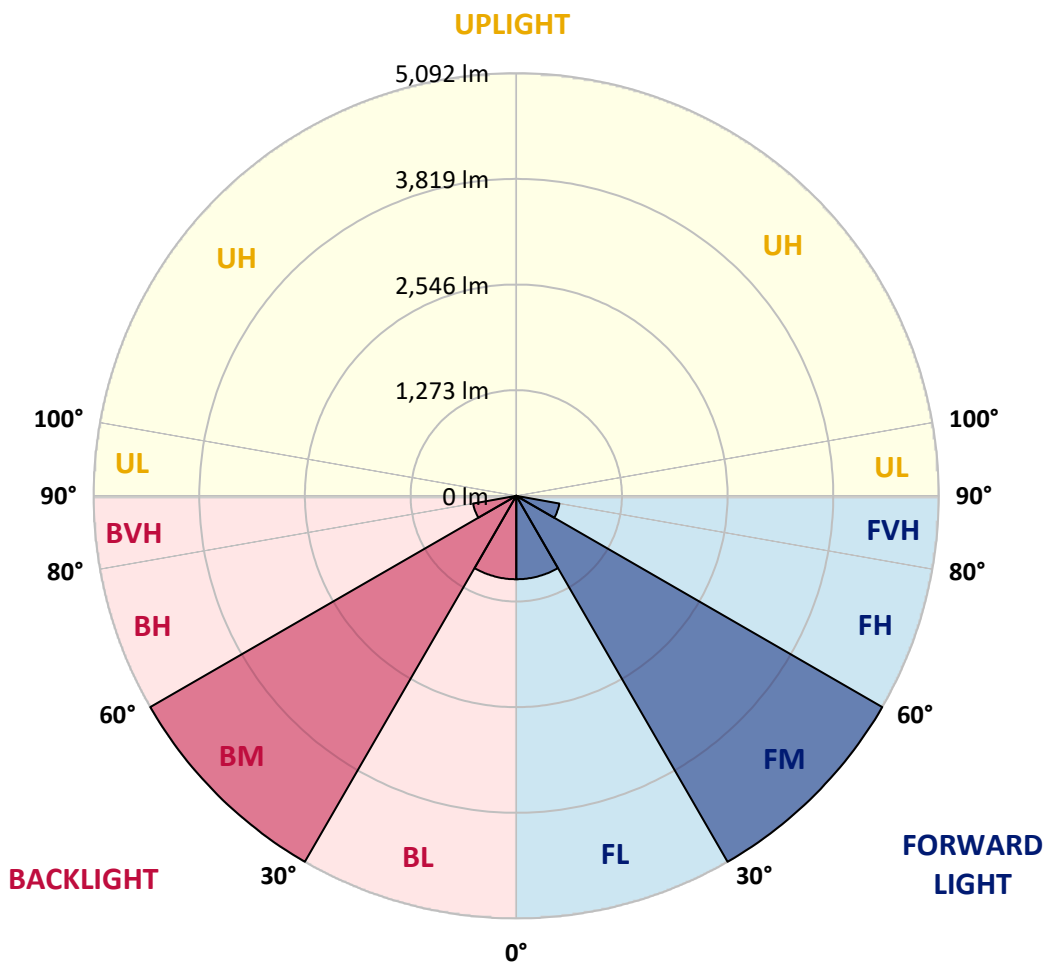


REPORT NUMBER: P529495
 CATALOG NUMBER: GLAN-SA4C-830-U-5MQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 1005.4 | 7.6 | | | |
| FM (30°-60°) | 5092.1 | 38.4 | | | |
| FH (60°-80°) | 527.9 | 4.0 | | | G0/660 |
| FVH (80°-90°) | 6.1 | 0.0 | | | G0/10 |
| BL (0°-30°) | 1005.4 | 7.6 | B3/2500 | | |
| BM (30°-60°) | 5092.1 | 38.4 | B4/8500 | | |
| BH (60°-80°) | 527.9 | 4.0 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 6.1 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G0
 Type V Short





REPORT NUMBER: P529495

CATALOG NUMBER: GLAN-SA4C-830-U-5MQ-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2324.0 | 2324.0 | 2324.0 | 2324.0 | 2324.0 | 2324.0 | 2324.0 | 2324.0 | 2324.0 | 2324.0 | 2324.0 |
| 2.5° | 2328.8 | 2328.8 | 2331.2 | 2333.6 | 2316.8 | 2309.5 | 2311.9 | 2307.1 | 2304.7 | 2311.9 | 2311.9 |
| 5° | 2321.6 | 2321.6 | 2314.3 | 2316.8 | 2316.8 | 2295.1 | 2295.1 | 2299.9 | 2299.9 | 2285.5 | 2280.7 |
| 7.5° | 2302.3 | 2297.5 | 2287.9 | 2299.9 | 2292.7 | 2292.7 | 2275.9 | 2263.9 | 2259.1 | 2268.7 | 2259.1 |
| 10° | 2261.5 | 2263.9 | 2273.5 | 2278.3 | 2273.5 | 2287.9 | 2259.1 | 2242.3 | 2225.4 | 2218.2 | 2218.2 |
| 12.5° | 2242.3 | 2256.7 | 2242.3 | 2254.3 | 2271.1 | 2259.1 | 2242.3 | 2230.2 | 2206.2 | 2196.6 | 2196.6 |
| 15° | 2239.8 | 2249.5 | 2254.3 | 2271.1 | 2263.9 | 2268.7 | 2235.0 | 2220.6 | 2184.6 | 2167.8 | 2160.5 |
| 17.5° | 2237.4 | 2249.5 | 2256.7 | 2287.9 | 2292.7 | 2295.1 | 2268.7 | 2225.4 | 2194.2 | 2177.4 | 2160.5 |
| 20° | 2263.9 | 2268.7 | 2283.1 | 2314.3 | 2333.6 | 2367.2 | 2319.2 | 2273.5 | 2206.2 | 2187.0 | 2179.8 |
| 22.5° | 2297.5 | 2321.6 | 2336.0 | 2369.6 | 2420.1 | 2448.9 | 2386.4 | 2328.8 | 2259.1 | 2235.0 | 2206.2 |
| 25° | 2405.7 | 2400.9 | 2424.9 | 2494.6 | 2535.5 | 2557.1 | 2506.6 | 2422.5 | 2331.2 | 2302.3 | 2307.1 |
| 27.5° | 2540.3 | 2545.1 | 2566.7 | 2643.6 | 2703.7 | 2737.3 | 2677.2 | 2566.7 | 2477.8 | 2429.7 | 2424.9 |
| 30° | 2715.7 | 2710.9 | 2734.9 | 2838.3 | 2946.4 | 2996.9 | 2891.1 | 2761.4 | 2674.8 | 2612.4 | 2626.8 |
| 32.5° | 2900.7 | 2903.2 | 2970.4 | 3064.2 | 3239.6 | 3338.1 | 3167.5 | 3008.9 | 2879.1 | 2835.9 | 2814.2 |
| 35° | 3174.7 | 3186.7 | 3239.6 | 3383.8 | 3578.5 | 3705.8 | 3518.4 | 3328.5 | 3179.5 | 3100.2 | 3109.8 |
| 37.5° | 3513.6 | 3501.6 | 3590.5 | 3746.7 | 3951.0 | 4044.7 | 3886.1 | 3669.8 | 3518.4 | 3465.5 | 3499.2 |
| 40° | 3874.1 | 3886.1 | 3931.8 | 4073.5 | 4301.9 | 4364.3 | 4128.8 | 4011.1 | 3878.9 | 3852.4 | 3893.3 |
| 42.5° | 4234.6 | 4227.4 | 4261.0 | 4388.4 | 4554.2 | 4510.9 | 4371.5 | 4301.9 | 4208.1 | 4155.3 | 4210.5 |
| 45° | 4498.9 | 4486.9 | 4549.4 | 4635.9 | 4696.0 | 4614.3 | 4551.8 | 4527.8 | 4479.7 | 4422.0 | 4472.5 |
| 47.5° | 4756.1 | 4746.5 | 4806.5 | 4830.6 | 4835.4 | 4727.2 | 4739.2 | 4782.5 | 4662.3 | 4542.2 | 4599.9 |
| 50° | 4974.8 | 4957.9 | 5032.4 | 5085.3 | 5073.3 | 4900.3 | 4943.5 | 4900.3 | 4712.8 | 4571.0 | 4549.4 |
| 52.5° | 5340.1 | 5347.3 | 5426.6 | 5522.7 | 5493.9 | 5349.7 | 5287.2 | 5090.1 | 4849.8 | 4722.4 | 4647.9 |
| 55° | 5570.8 | 5534.7 | 5671.7 | 5976.9 | 6010.6 | 5861.6 | 5585.2 | 5294.4 | 4933.9 | 4777.7 | 4758.5 |
| 56° | 5354.5 | 5400.1 | 5616.4 | 5957.7 | 6130.7 | 5993.8 | 5592.4 | 5243.9 | 4847.4 | 4635.9 | 4621.5 |
| 57.5° | 4804.1 | 4780.1 | 5073.3 | 5539.5 | 6010.6 | 5952.9 | 5395.3 | 4883.4 | 4422.0 | 4184.1 | 4155.3 |
| 60° | 2989.7 | 3059.4 | 3316.5 | 3893.3 | 4523.0 | 4551.8 | 3999.0 | 3559.2 | 3020.9 | 2809.4 | 2859.9 |
| 62.5° | 1170.4 | 1110.3 | 1271.3 | 1701.5 | 2134.1 | 2230.2 | 2021.2 | 1679.9 | 1379.5 | 1170.4 | 1156.0 |
| 65° | 271.6 | 264.4 | 298.0 | 411.0 | 574.4 | 665.7 | 632.1 | 454.2 | 334.1 | 317.2 | 293.2 |
| 67.5° | 153.8 | 153.8 | 146.6 | 146.6 | 161.0 | 170.6 | 163.4 | 161.0 | 168.2 | 175.4 | 173.0 |
| 70° | 108.1 | 105.7 | 100.9 | 103.3 | 98.5 | 98.5 | 105.7 | 117.8 | 127.4 | 127.4 | 129.8 |
| 72.5° | 64.9 | 64.9 | 64.9 | 72.1 | 72.1 | 72.1 | 79.3 | 88.9 | 91.3 | 88.9 | 86.5 |
| 75° | 28.8 | 28.8 | 33.6 | 40.9 | 45.7 | 48.1 | 55.3 | 60.1 | 64.9 | 60.1 | 55.3 |
| 77.5° | 7.2 | 7.2 | 12.0 | 16.8 | 21.6 | 26.4 | 36.0 | 43.3 | 45.7 | 43.3 | 36.0 |
| 80° | 2.4 | 2.4 | 4.8 | 12.0 | 21.6 | 26.4 | 36.0 | 38.5 | 40.9 | 36.0 | 28.8 |
| 82.5° | 2.4 | 2.4 | 4.8 | 12.0 | 16.8 | 21.6 | 28.8 | 33.6 | 36.0 | 31.2 | 28.8 |
| 85° | 0.0 | 2.4 | 4.8 | 9.6 | 14.4 | 19.2 | 19.2 | 14.4 | 12.0 | 7.2 | 9.6 |
| 87.5° | 0.0 | 0.0 | 2.4 | 2.4 | 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)