

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: P316289

Luminaire Tested: **GLEON-SA5C-827-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5C-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27373 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

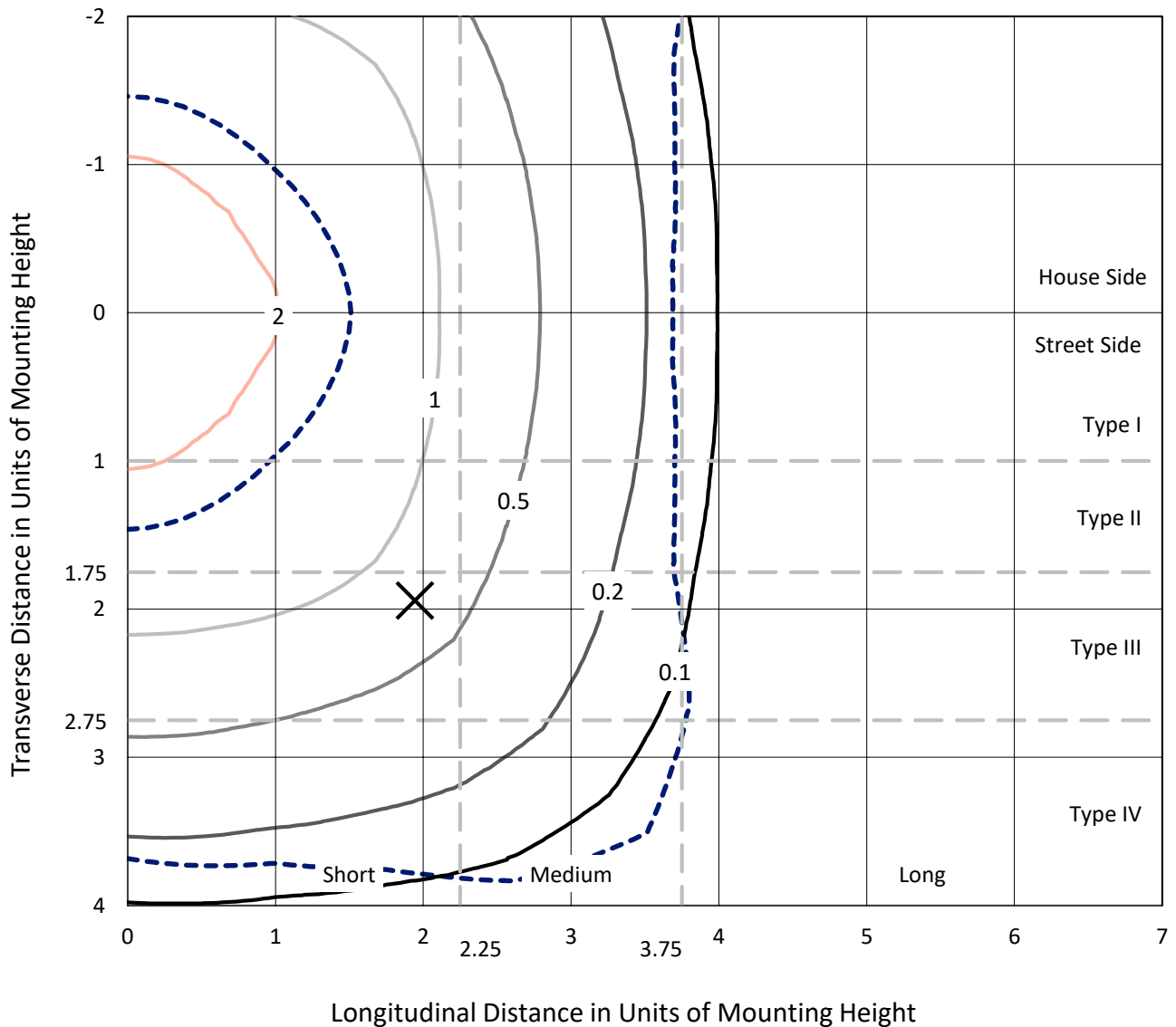
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

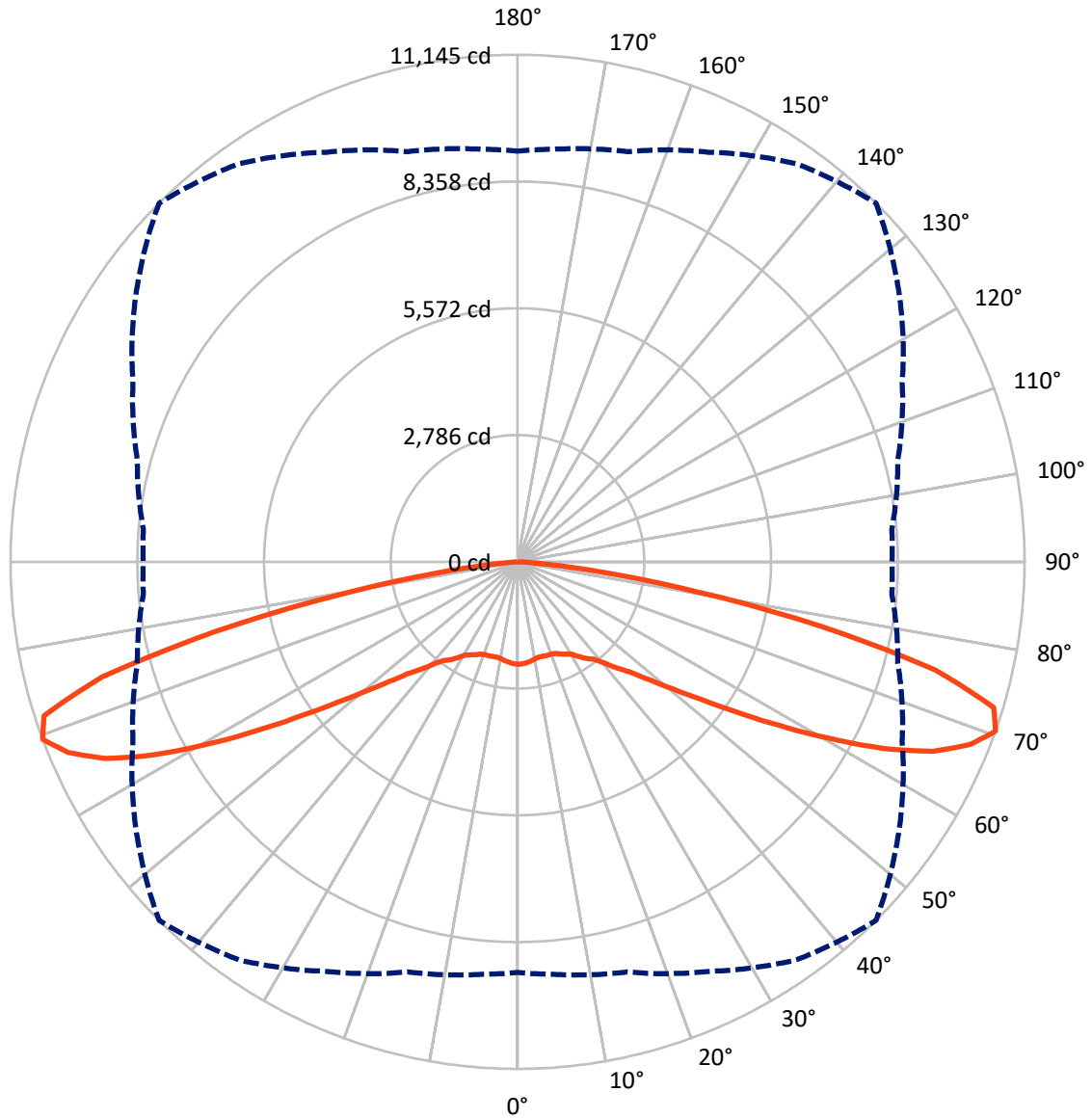
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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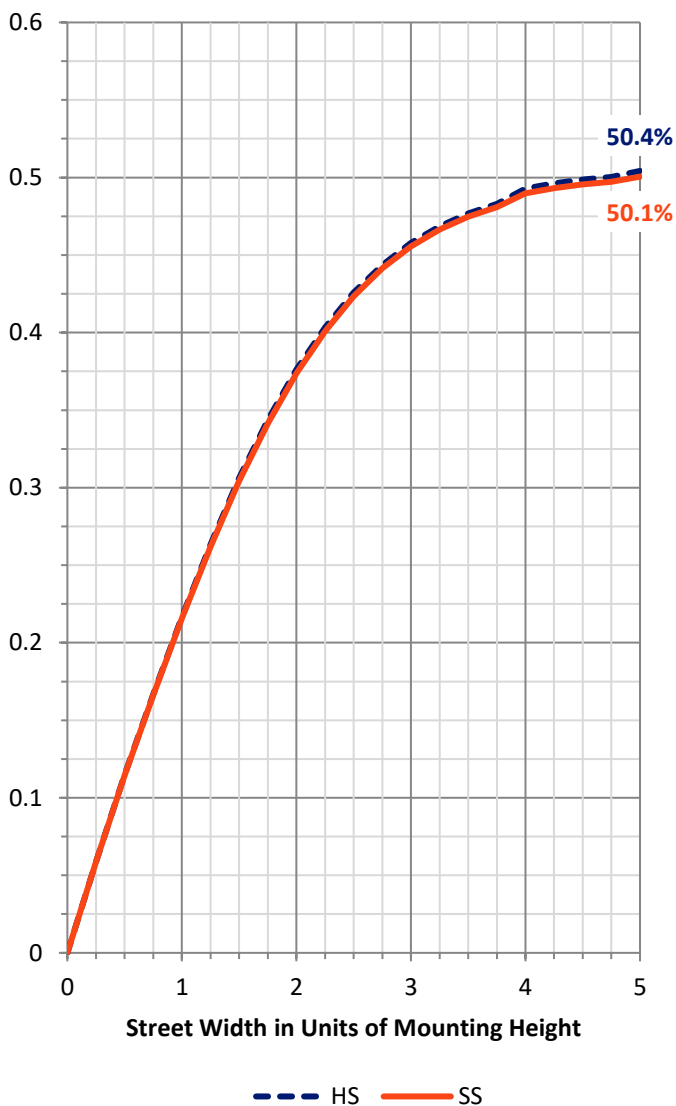
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 13686.5 | 0.0 | 13686.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 13686.5 | 0.0 | 13686.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 27373.0 | 0.0 | 27373.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 210.3 | 0.8 |
| 10°-20° | 614.2 | 2.2 |
| 20°-30° | 1047.2 | 3.8 |
| 30°-40° | 1636.2 | 6.0 |
| 40°-50° | 2773.0 | 10.1 |
| 50°-60° | 5056.8 | 18.5 |
| 60°-70° | 8705.6 | 31.8 |
| 70°-80° | 6823.8 | 24.9 |
| 80°-90° | 506.0 | 1.8 |
| 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° | 27373.0 | 100.0 |
| 0°-180° | 27373.0 | 100.0 |

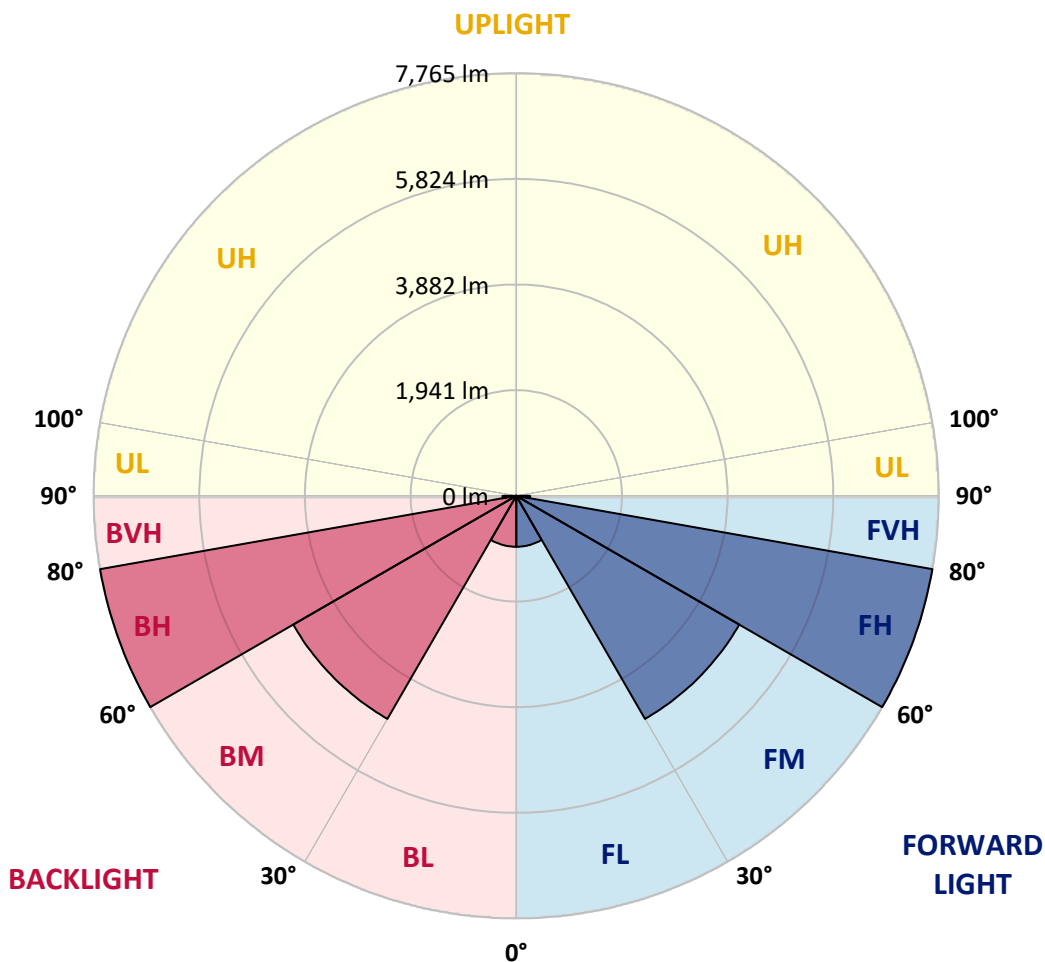


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 935.8 | 3.4 | | | |
| FM (30°-60°) | 4733.0 | 17.3 | | | |
| FH (60°-80°) | 7764.7 | 28.4 | | | G4/12000 |
| FVH (80°-90°) | 253.0 | 0.9 | | | G3/500 |
| BL (0°-30°) | 935.8 | 3.4 | B2/1000 | | |
| BM (30°-60°) | 4733.0 | 17.3 | B3/5000 | | |
| BH (60°-80°) | 7764.7 | 28.4 | B5 | | G4/12000 |
| BVH (80°-90°) | 253.0 | 0.9 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G4
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 2252.8 | 2252.8 | 2252.8 | 2252.8 | 2252.8 | 2252.8 | 2252.8 | 2252.8 | 2252.8 | 2252.8 | 2252.8 |
| 2.5° | 2242.8 | 2245.6 | 2242.8 | 2244.7 | 2240.1 | 2241.9 | 2241.9 | 2241.9 | 2241.0 | 2241.9 | 2240.1 |
| 5° | 2222.9 | 2224.7 | 2221.1 | 2222.9 | 2220.2 | 2222.9 | 2223.8 | 2222.9 | 2221.1 | 2222.0 | 2218.4 |
| 7.5° | 2193.0 | 2194.9 | 2192.1 | 2194.9 | 2191.2 | 2195.8 | 2194.9 | 2192.1 | 2189.4 | 2189.4 | 2185.8 |
| 10° | 2176.7 | 2177.6 | 2170.4 | 2167.7 | 2159.5 | 2161.3 | 2164.1 | 2166.8 | 2169.5 | 2174.9 | 2174.0 |
| 12.5° | 2177.6 | 2177.6 | 2166.8 | 2155.0 | 2143.2 | 2146.0 | 2150.5 | 2160.4 | 2171.3 | 2181.3 | 2182.2 |
| 15° | 2186.7 | 2185.8 | 2169.5 | 2150.5 | 2142.3 | 2150.5 | 2153.2 | 2159.5 | 2176.7 | 2193.9 | 2194.9 |
| 17.5° | 2193.0 | 2193.0 | 2167.7 | 2146.0 | 2145.1 | 2157.7 | 2156.8 | 2159.5 | 2178.6 | 2203.9 | 2204.8 |
| 20° | 2204.8 | 2204.8 | 2172.2 | 2148.7 | 2148.7 | 2162.3 | 2163.2 | 2167.7 | 2186.7 | 2214.8 | 2219.3 |
| 22.5° | 2231.1 | 2232.0 | 2197.6 | 2178.6 | 2180.4 | 2188.5 | 2191.2 | 2198.5 | 2215.7 | 2246.5 | 2251.9 |
| 25° | 2268.2 | 2270.0 | 2234.7 | 2223.8 | 2230.2 | 2245.6 | 2243.7 | 2249.2 | 2268.2 | 2298.1 | 2303.5 |
| 27.5° | 2319.8 | 2315.3 | 2282.7 | 2278.2 | 2284.5 | 2295.4 | 2294.5 | 2295.4 | 2310.8 | 2337.9 | 2344.3 |
| 30° | 2386.8 | 2385.0 | 2361.5 | 2364.2 | 2361.5 | 2357.8 | 2358.7 | 2366.0 | 2374.1 | 2395.9 | 2402.2 |
| 32.5° | 2452.0 | 2453.8 | 2439.3 | 2452.9 | 2472.8 | 2486.4 | 2465.6 | 2445.7 | 2436.6 | 2448.4 | 2453.8 |
| 35° | 2569.7 | 2574.2 | 2551.6 | 2542.6 | 2569.7 | 2609.6 | 2550.7 | 2518.1 | 2536.2 | 2551.6 | 2556.1 |
| 37.5° | 2769.8 | 2772.5 | 2734.5 | 2698.3 | 2678.4 | 2716.4 | 2657.5 | 2660.3 | 2723.6 | 2752.6 | 2751.7 |
| 40° | 2998.0 | 2998.9 | 2973.6 | 2941.9 | 2907.5 | 2916.5 | 2893.0 | 2900.2 | 2941.9 | 2968.1 | 2975.4 |
| 42.5° | 3269.6 | 3266.9 | 3227.1 | 3181.8 | 3171.9 | 3180.9 | 3141.1 | 3135.6 | 3183.6 | 3230.7 | 3231.6 |
| 45° | 3621.9 | 3615.5 | 3563.9 | 3514.1 | 3466.1 | 3446.2 | 3436.2 | 3462.5 | 3528.6 | 3572.1 | 3573.0 |
| 47.5° | 4001.3 | 3984.1 | 3956.9 | 3917.0 | 3875.4 | 3855.5 | 3839.2 | 3851.9 | 3899.8 | 3917.0 | 3918.9 |
| 50° | 4391.5 | 4395.1 | 4400.6 | 4385.2 | 4369.8 | 4363.4 | 4320.9 | 4296.4 | 4310.9 | 4279.2 | 4274.7 |
| 52.5° | 4854.2 | 4861.5 | 4914.0 | 4958.3 | 4984.6 | 4998.2 | 4917.6 | 4833.4 | 4786.3 | 4724.7 | 4706.6 |
| 55° | 5400.2 | 5412.0 | 5488.9 | 5612.1 | 5738.8 | 5805.9 | 5660.1 | 5502.5 | 5356.7 | 5241.7 | 5204.6 |
| 57.5° | 6008.7 | 6029.5 | 6135.4 | 6371.8 | 6631.6 | 6790.1 | 6543.8 | 6257.7 | 5976.1 | 5810.4 | 5781.4 |
| 60° | 6722.2 | 6742.1 | 6888.8 | 7227.4 | 7648.5 | 7886.6 | 7513.6 | 7045.4 | 6695.0 | 6536.6 | 6483.1 |
| 62.5° | 7571.5 | 7573.3 | 7753.5 | 8149.2 | 8705.2 | 9036.6 | 8531.3 | 7905.6 | 7544.4 | 7353.3 | 7301.7 |
| 65° | 8485.1 | 8489.7 | 8676.2 | 9103.6 | 9678.5 | 10038.9 | 9468.5 | 8816.5 | 8374.7 | 8093.1 | 8053.2 |
| 67.5° | 9130.7 | 9149.7 | 9346.2 | 9860.5 | 10398.4 | 10723.4 | 10133.1 | 9396.0 | 8885.3 | 8549.4 | 8515.9 |
| 70° | 9027.5 | 9101.8 | 9332.6 | 9933.0 | 10680.9 | 11144.5 | 10240.8 | 9327.2 | 8653.5 | 8257.0 | 8228.9 |
| 72.5° | 7873.0 | 8015.2 | 8323.1 | 9110.8 | 10306.9 | 10945.3 | 9653.2 | 8353.8 | 7591.4 | 7253.7 | 7203.0 |
| 75° | 5361.3 | 5592.2 | 6056.7 | 7193.0 | 8805.7 | 9476.6 | 8126.6 | 6660.6 | 5943.5 | 5476.3 | 5441.9 |
| 77.5° | 2390.4 | 2442.9 | 3031.5 | 4339.9 | 6076.6 | 6805.5 | 5904.5 | 4357.1 | 3270.5 | 2608.7 | 2469.2 |
| 80° | 666.4 | 674.6 | 900.0 | 1616.3 | 3041.5 | 3998.5 | 3265.1 | 1697.8 | 954.4 | 672.8 | 633.8 |
| 82.5° | 211.9 | 230.0 | 280.7 | 419.2 | 1022.3 | 1824.5 | 1049.4 | 452.7 | 322.3 | 257.2 | 231.8 |
| 85° | 103.2 | 102.3 | 142.2 | 170.2 | 260.8 | 403.8 | 278.0 | 210.1 | 183.8 | 122.2 | 110.5 |
| 87.5° | 43.5 | 44.4 | 66.1 | 59.8 | 76.1 | 65.2 | 89.6 | 94.2 | 98.7 | 54.3 | 47.1 |
| 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)