

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: P383047

Luminaire Tested: **GLEON-SA4A-735-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383047
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4A-735-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18064.5 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

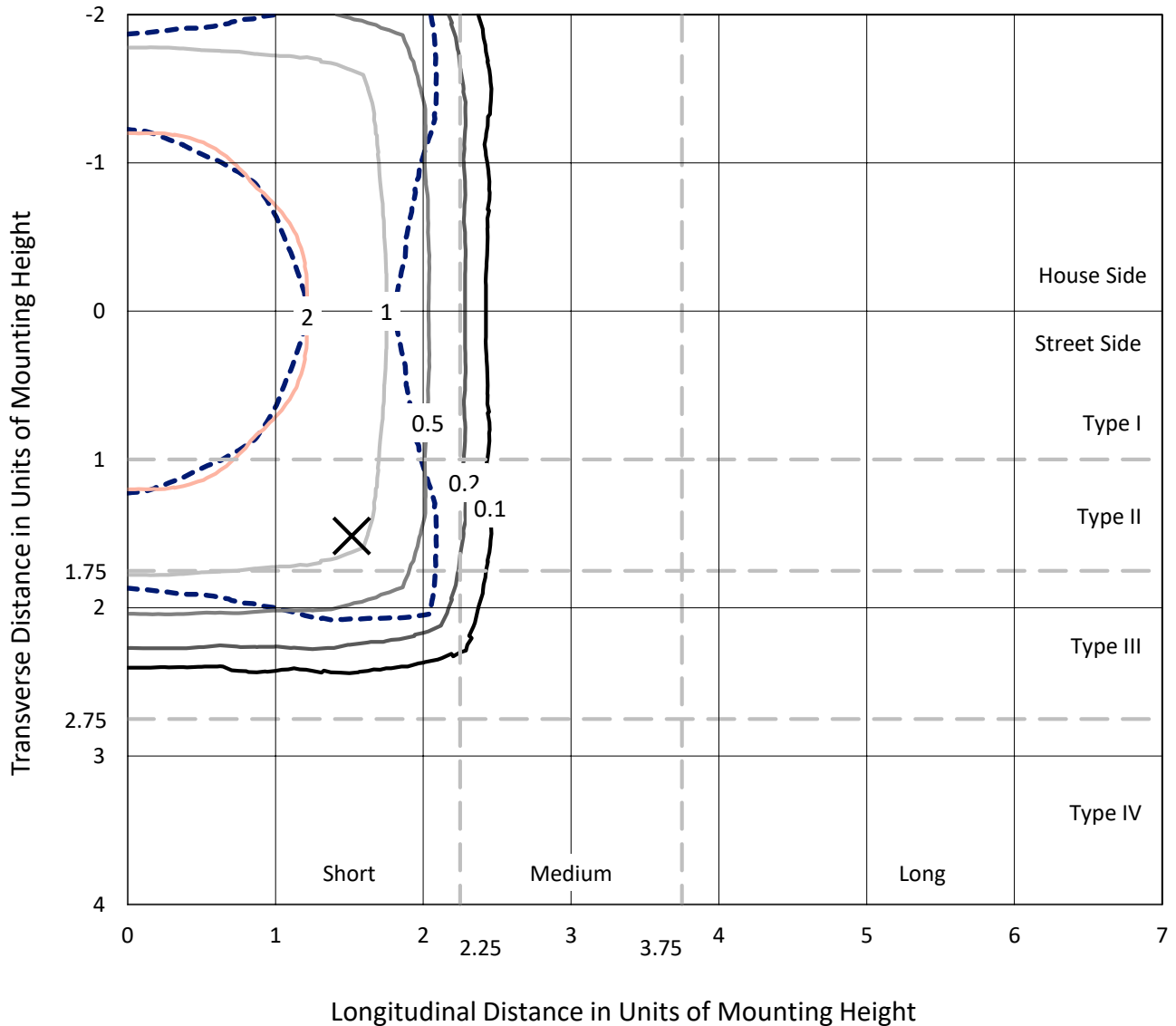
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

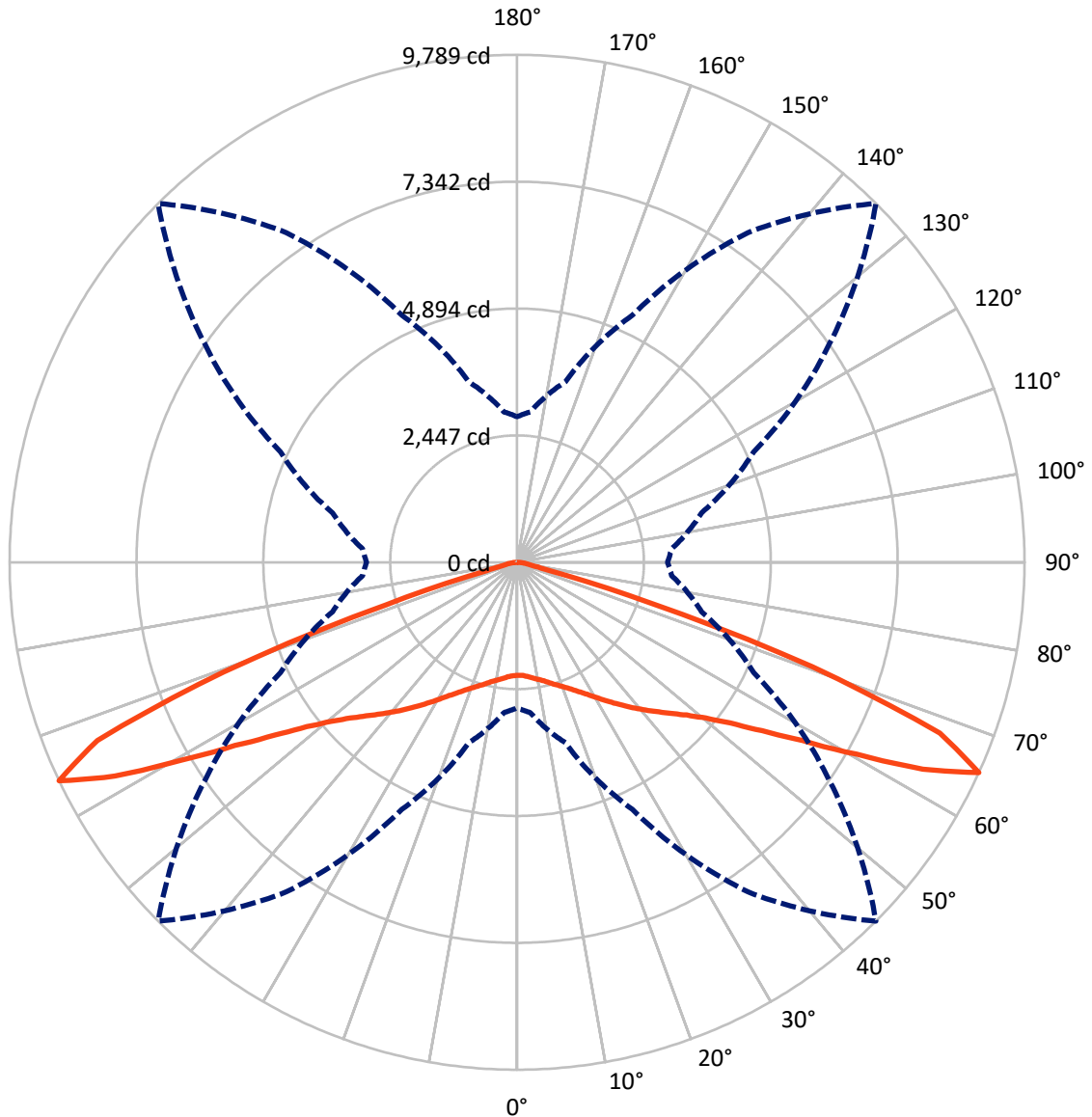
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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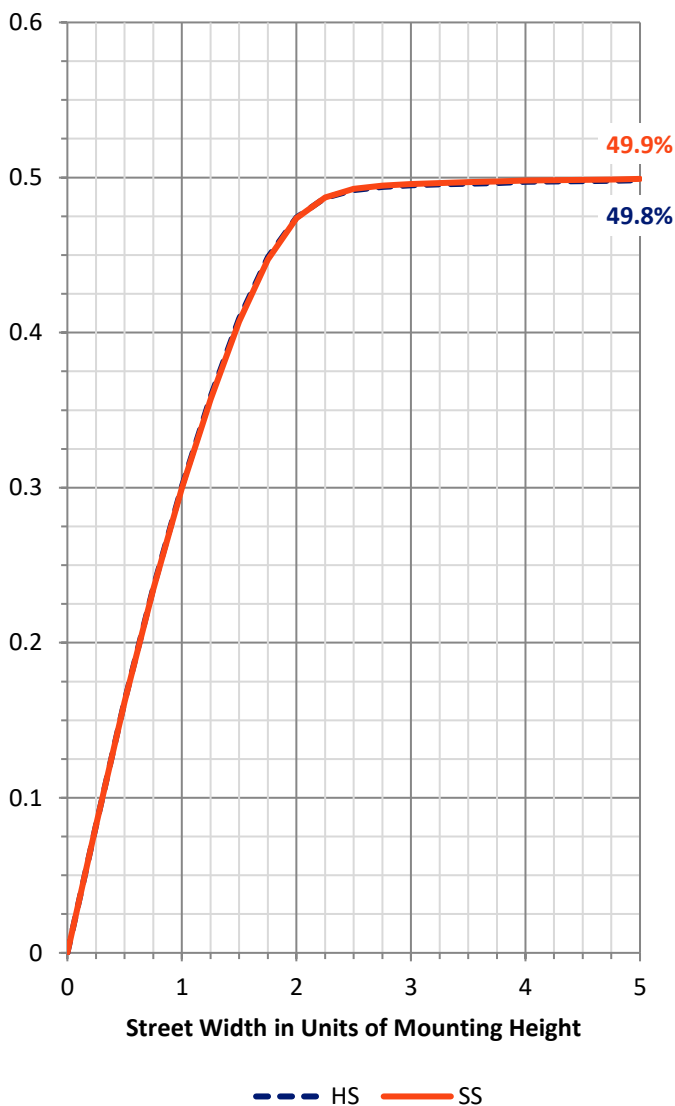
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9032.3 | 0.0 | 9032.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9032.3 | 0.0 | 9032.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 18064.5 | 0.0 | 18064.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 214.0 | 1.2 |
| 10°-20° | 688.0 | 3.8 |
| 20°-30° | 1290.8 | 7.1 |
| 30°-40° | 2134.7 | 11.8 |
| 40°-50° | 3306.3 | 18.3 |
| 50°-60° | 5071.0 | 28.1 |
| 60°-70° | 4731.8 | 26.2 |
| 70°-80° | 550.7 | 3.0 |
| 80°-90° | 77.4 | 0.4 |
| 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° | 18064.5 | 100.0 |
| 0°-180° | 18064.5 | 100.0 |

Coefficient of Utilization



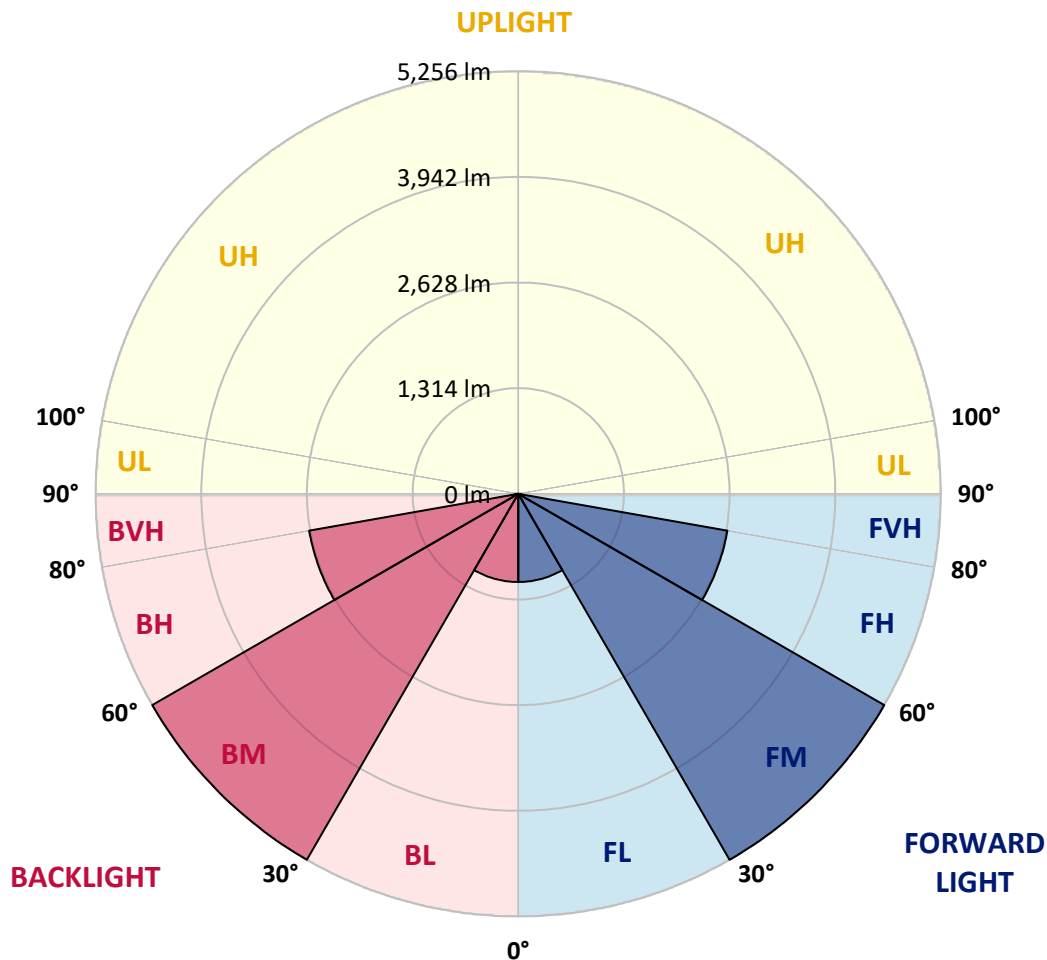
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1096.4 | 6.1 | | | |
| FM (30°-60°) | 5256.0 | 29.1 | | | |
| FH (60°-80°) | 2641.2 | 14.6 | | | G2/5000 |
| FVH (80°-90°) | 38.7 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1096.4 | 6.1 | B3/2500 | | |
| BM (30°-60°) | 5256.0 | 29.1 | B4/8500 | | |
| BH (60°-80°) | 2641.2 | 14.6 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 38.7 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2181.5 | 2181.5 | 2181.5 | 2181.5 | 2181.5 | 2181.5 | 2181.5 | 2181.5 | 2181.5 | 2181.5 | 2181.5 |
| 2.5° | 2188.8 | 2187.6 | 2188.8 | 2189.3 | 2185.7 | 2187.6 | 2186.9 | 2189.9 | 2191.1 | 2189.9 | 2189.9 |
| 5° | 2213.9 | 2212.1 | 2214.5 | 2217.5 | 2212.7 | 2213.9 | 2212.1 | 2215.7 | 2216.9 | 2214.5 | 2216.3 |
| 7.5° | 2248.7 | 2249.3 | 2251.6 | 2257.0 | 2254.1 | 2256.5 | 2252.9 | 2253.5 | 2252.9 | 2249.3 | 2249.9 |
| 10° | 2286.5 | 2287.0 | 2291.2 | 2298.5 | 2299.6 | 2299.6 | 2297.3 | 2295.4 | 2293.1 | 2290.7 | 2291.2 |
| 12.5° | 2332.0 | 2335.0 | 2338.0 | 2347.0 | 2347.0 | 2351.8 | 2350.7 | 2345.8 | 2341.6 | 2338.0 | 2338.0 |
| 15° | 2393.8 | 2393.2 | 2396.8 | 2405.8 | 2410.0 | 2417.8 | 2417.8 | 2411.2 | 2405.8 | 2402.2 | 2401.0 |
| 17.5° | 2458.5 | 2460.4 | 2462.7 | 2473.5 | 2480.2 | 2489.2 | 2490.3 | 2484.9 | 2481.4 | 2476.5 | 2473.5 |
| 20° | 2534.1 | 2537.2 | 2546.8 | 2550.9 | 2556.9 | 2565.3 | 2568.3 | 2567.1 | 2563.5 | 2561.1 | 2561.7 |
| 22.5° | 2622.3 | 2630.0 | 2636.1 | 2642.1 | 2649.2 | 2655.3 | 2658.3 | 2662.5 | 2658.8 | 2657.1 | 2655.8 |
| 25° | 2729.0 | 2734.4 | 2746.4 | 2757.2 | 2761.9 | 2763.8 | 2767.3 | 2773.4 | 2772.8 | 2768.6 | 2768.6 |
| 27.5° | 2850.2 | 2860.3 | 2875.3 | 2890.9 | 2890.9 | 2884.9 | 2896.9 | 2907.1 | 2903.5 | 2898.1 | 2890.9 |
| 30° | 2997.1 | 3006.7 | 3024.0 | 3045.6 | 3034.8 | 3030.6 | 3046.8 | 3065.4 | 3060.0 | 3051.0 | 3049.8 |
| 32.5° | 3155.3 | 3164.4 | 3187.1 | 3210.5 | 3196.7 | 3190.7 | 3208.2 | 3235.1 | 3225.5 | 3207.5 | 3196.7 |
| 35° | 3326.8 | 3335.9 | 3368.2 | 3396.4 | 3373.0 | 3362.8 | 3377.2 | 3406.6 | 3389.8 | 3356.3 | 3347.9 |
| 37.5° | 3513.3 | 3518.2 | 3560.1 | 3588.9 | 3572.7 | 3545.7 | 3563.7 | 3585.3 | 3570.9 | 3530.1 | 3514.0 |
| 40° | 3707.0 | 3724.4 | 3773.0 | 3806.6 | 3778.4 | 3735.8 | 3765.8 | 3795.8 | 3774.2 | 3722.0 | 3694.4 |
| 42.5° | 3933.1 | 3946.3 | 4011.1 | 4041.1 | 3995.5 | 3935.5 | 3976.3 | 4017.0 | 3995.5 | 3945.1 | 3921.1 |
| 45° | 4168.2 | 4188.5 | 4265.9 | 4295.9 | 4230.0 | 4153.8 | 4203.5 | 4274.9 | 4273.1 | 4200.5 | 4175.4 |
| 47.5° | 4424.2 | 4444.6 | 4536.9 | 4576.5 | 4505.2 | 4403.2 | 4473.4 | 4574.1 | 4566.9 | 4487.2 | 4466.8 |
| 50° | 4719.9 | 4741.4 | 4856.5 | 4906.4 | 4839.8 | 4721.1 | 4826.5 | 4915.3 | 4902.2 | 4803.8 | 4805.6 |
| 52.5° | 5091.0 | 5089.8 | 5233.2 | 5319.5 | 5251.1 | 5146.1 | 5243.3 | 5329.7 | 5275.1 | 5139.0 | 5134.8 |
| 55° | 5416.0 | 5435.9 | 5613.3 | 5777.0 | 5772.8 | 5732.7 | 5771.6 | 5775.2 | 5619.3 | 5438.2 | 5416.0 |
| 57.5° | 5629.5 | 5667.3 | 5917.4 | 6213.6 | 6435.4 | 6488.8 | 6413.2 | 6184.2 | 5819.0 | 5529.4 | 5494.0 |
| 60° | 5498.2 | 5555.7 | 5948.5 | 6552.4 | 7206.0 | 7519.6 | 7093.3 | 6382.7 | 5663.7 | 5260.2 | 5212.2 |
| 62.5° | 4611.9 | 4709.1 | 5284.1 | 6388.6 | 7869.2 | 8786.1 | 7586.2 | 6064.3 | 5046.0 | 4490.2 | 4408.0 |
| 65° | 2808.8 | 2911.3 | 3604.5 | 5258.3 | 7761.8 | 9788.7 | 7361.3 | 5033.4 | 3683.1 | 2991.7 | 2902.9 |
| 67.5° | 936.0 | 966.0 | 1374.4 | 2906.5 | 6100.2 | 8795.0 | 6110.4 | 3013.3 | 1602.8 | 1062.6 | 1031.4 |
| 70° | 366.4 | 369.4 | 436.0 | 842.5 | 2880.7 | 6040.9 | 3178.7 | 857.5 | 455.7 | 360.4 | 368.1 |
| 72.5° | 269.2 | 270.4 | 289.1 | 352.0 | 750.7 | 2661.2 | 777.7 | 353.8 | 281.2 | 252.4 | 252.4 |
| 75° | 216.5 | 216.5 | 229.6 | 256.6 | 336.4 | 610.4 | 341.2 | 253.7 | 220.0 | 201.5 | 199.1 |
| 77.5° | 170.9 | 174.5 | 184.7 | 202.1 | 227.9 | 293.8 | 236.2 | 200.8 | 177.5 | 160.1 | 156.5 |
| 80° | 127.2 | 130.7 | 147.6 | 155.9 | 163.7 | 203.9 | 174.5 | 157.2 | 140.3 | 119.9 | 116.4 |
| 82.5° | 83.4 | 86.9 | 108.0 | 112.7 | 110.9 | 133.1 | 117.6 | 115.7 | 103.1 | 77.3 | 73.8 |
| 85° | 54.6 | 55.8 | 71.9 | 75.0 | 68.9 | 60.6 | 75.0 | 79.2 | 71.9 | 50.4 | 48.5 |
| 87.5° | 25.8 | 25.8 | 36.6 | 34.2 | 31.2 | 25.2 | 34.2 | 40.1 | 40.8 | 24.6 | 23.9 |
| 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)