

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: P646883

Luminaire Tested: **GALN-SA4C-835-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-835-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22467.4 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

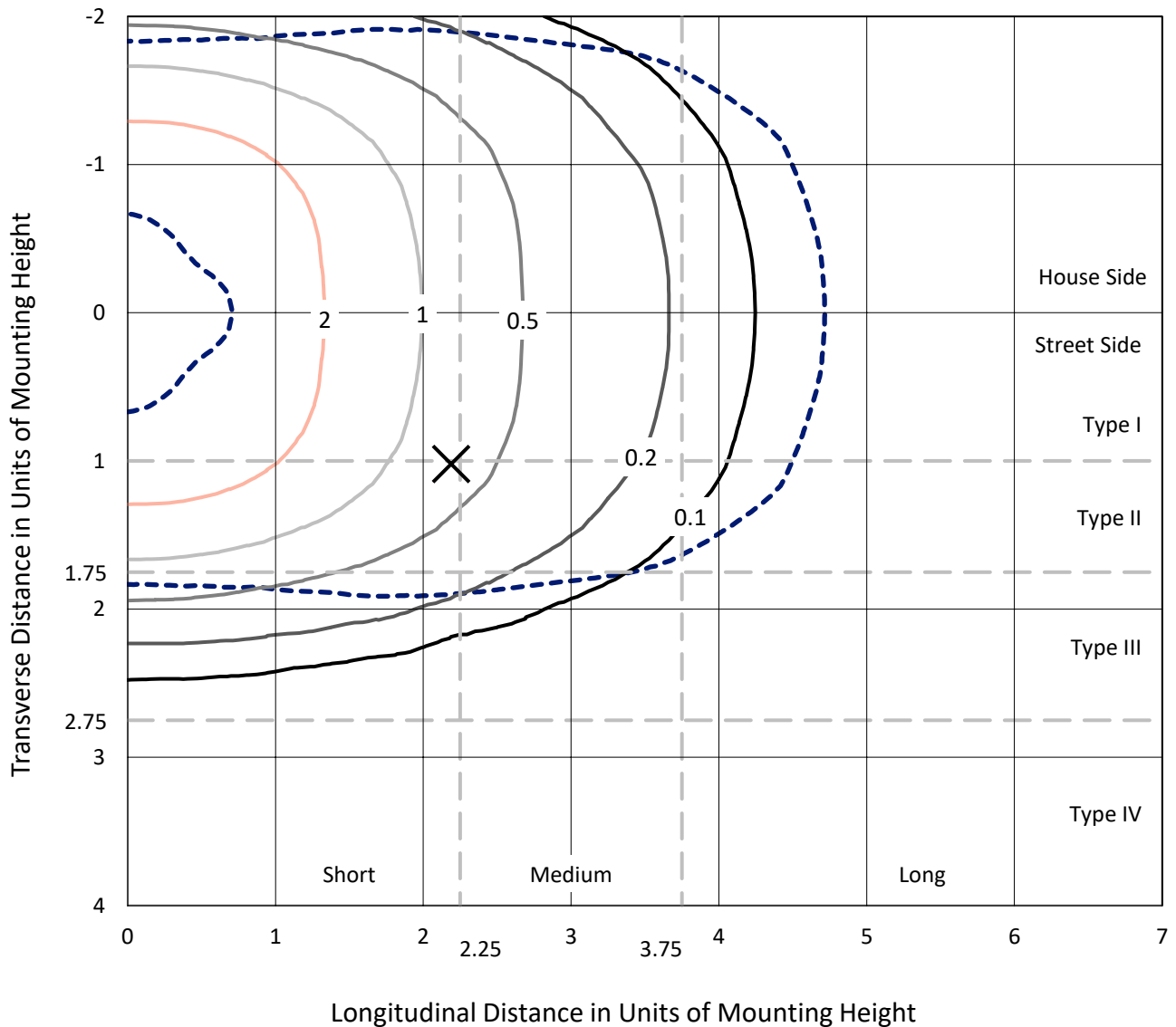
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

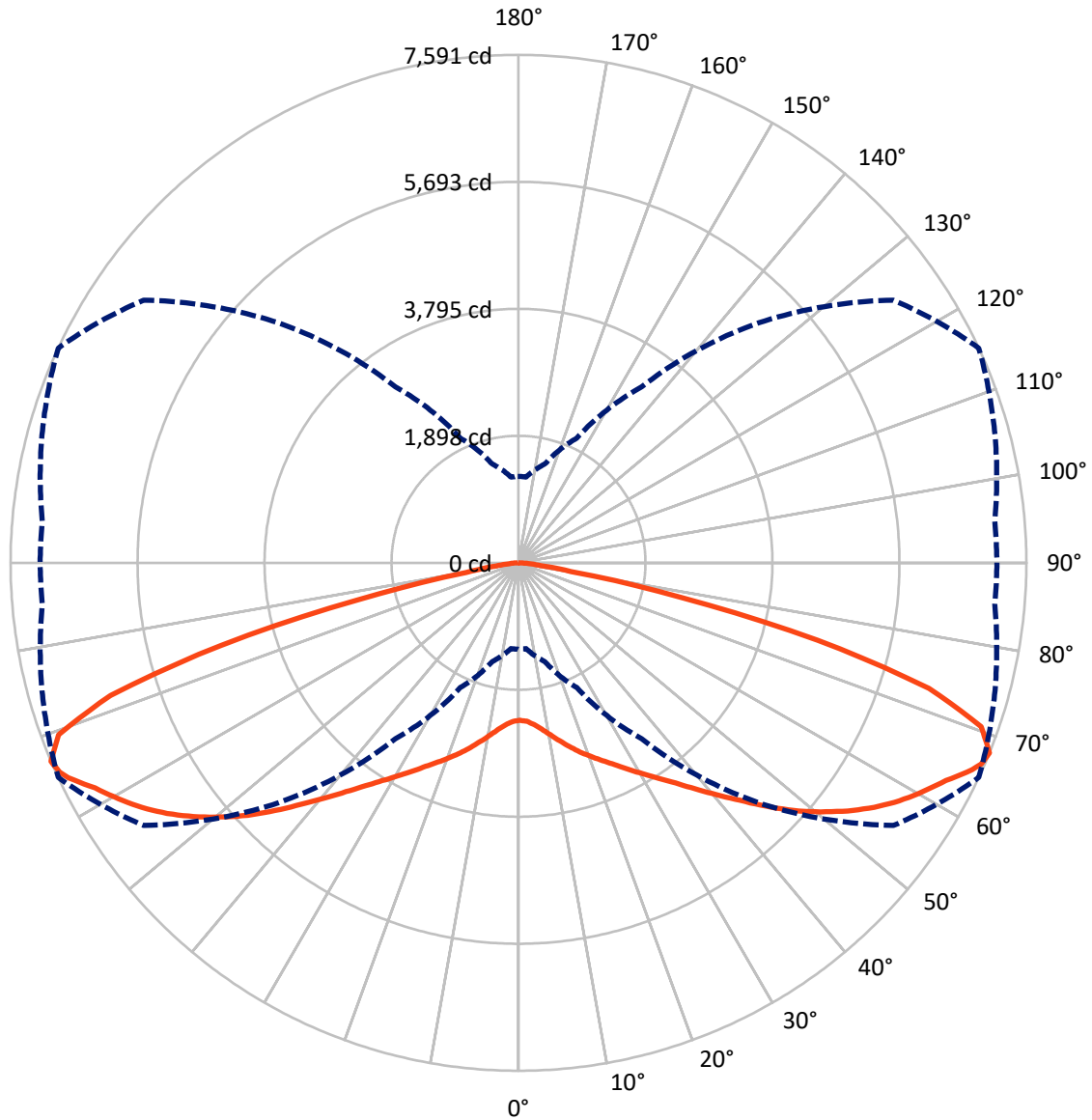
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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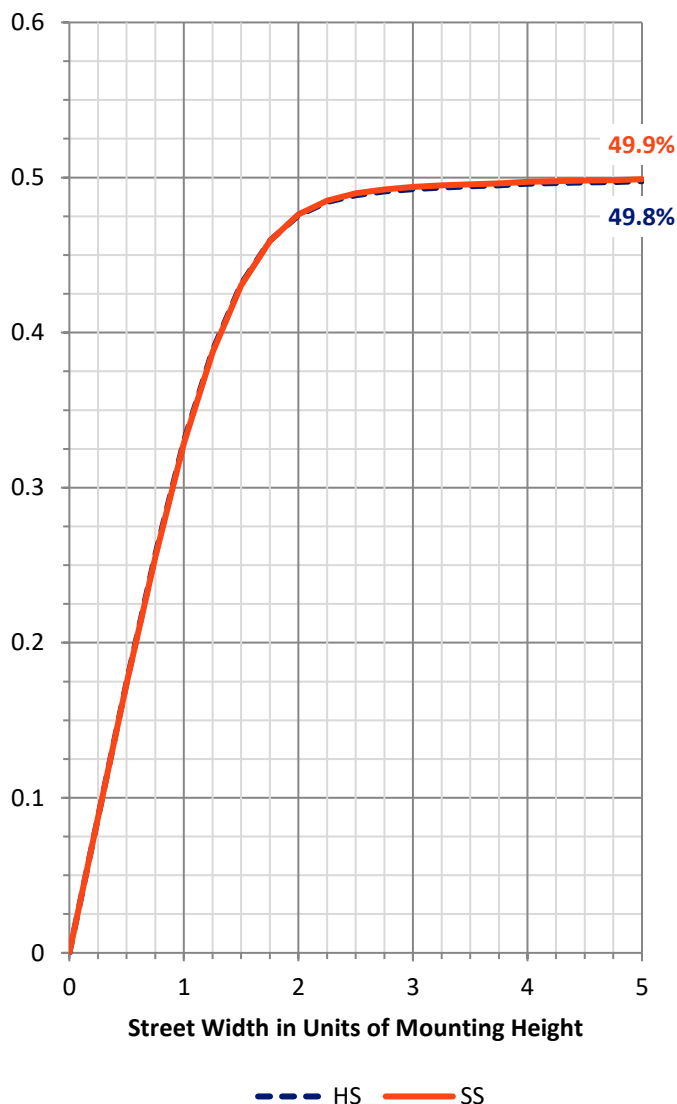
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11233.7 | 0.0 | 11233.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 11233.7 | 0.0 | 11233.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 22467.4 | 0.0 | 22467.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 232.1 | 1.0 |
| 10°-20° | 776.8 | 3.5 |
| 20°-30° | 1519.5 | 6.8 |
| 30°-40° | 2584.4 | 11.5 |
| 40°-50° | 4090.4 | 18.2 |
| 50°-60° | 5423.8 | 24.1 |
| 60°-70° | 5116.3 | 22.8 |
| 70°-80° | 2529.2 | 11.3 |
| 80°-90° | 194.9 | 0.9 |
| 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° | 22467.4 | 100.0 |
| 0°-180° | 22467.4 | 100.0 |

Coefficient of Utilization

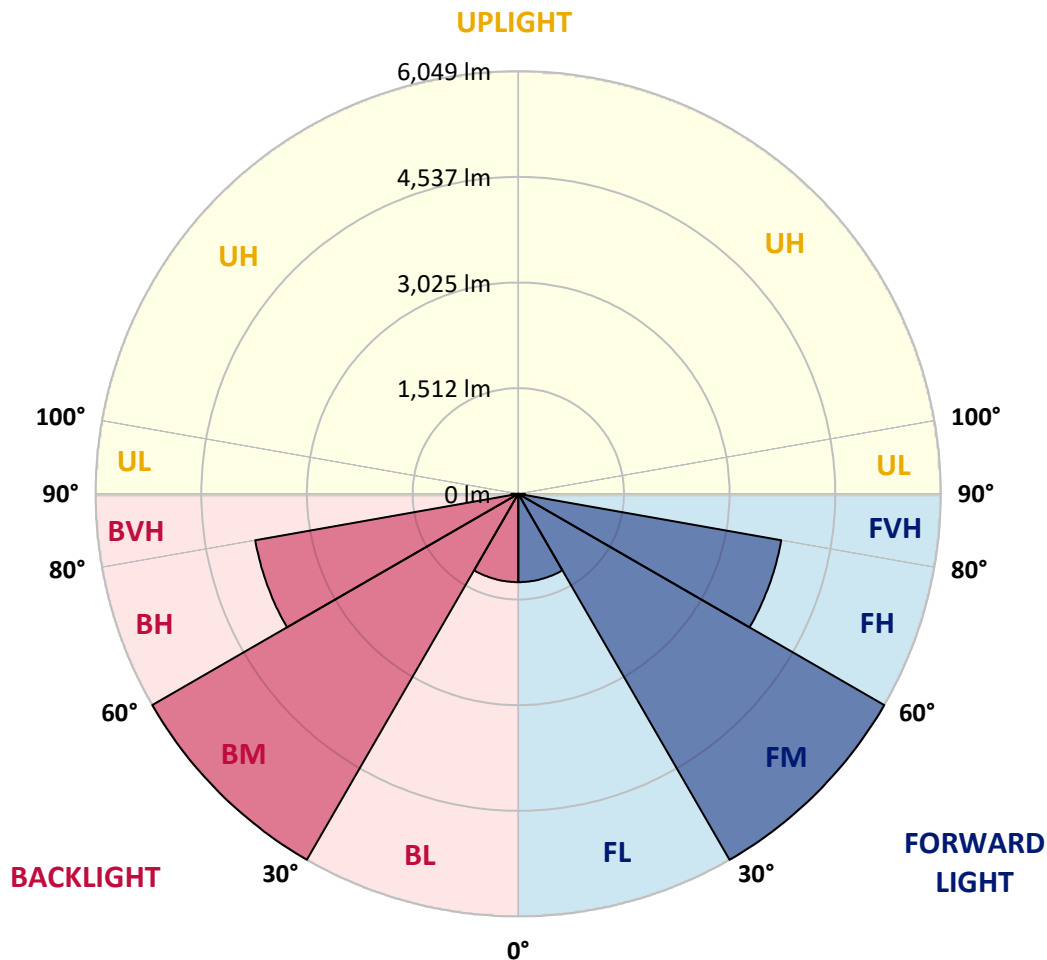


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1264.2 | 5.6 | | | |
| FM (30°-60°) | 6049.3 | 26.9 | | | |
| FH (60°-80°) | 3822.8 | 17.0 | | | G2/5000 |
| FVH (80°-90°) | 97.5 | 0.4 | | | G1/100 |
| BL (0°-30°) | 1264.2 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 6049.3 | 26.9 | B4/8500 | | |
| BH (60°-80°) | 3822.8 | 17.0 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 97.5 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2353.2 | 2353.2 | 2353.2 | 2353.2 | 2353.2 | 2353.2 | 2353.2 | 2353.2 | 2353.2 | 2353.2 | 2353.2 |
| 2.5° | 2341.2 | 2343.6 | 2346.0 | 2349.6 | 2354.5 | 2361.7 | 2366.5 | 2370.1 | 2379.8 | 2380.9 | 2379.8 |
| 5° | 2332.8 | 2335.2 | 2341.2 | 2352.1 | 2367.7 | 2389.4 | 2406.2 | 2426.7 | 2442.3 | 2453.1 | 2450.8 |
| 7.5° | 2331.6 | 2336.4 | 2346.0 | 2368.9 | 2399.0 | 2436.3 | 2474.8 | 2509.7 | 2539.8 | 2563.9 | 2560.3 |
| 10° | 2350.9 | 2356.9 | 2372.5 | 2406.2 | 2453.1 | 2507.3 | 2561.5 | 2613.3 | 2656.6 | 2687.9 | 2698.8 |
| 12.5° | 2383.4 | 2388.2 | 2417.0 | 2467.6 | 2535.0 | 2602.5 | 2663.8 | 2727.6 | 2787.8 | 2840.8 | 2840.8 |
| 15° | 2439.9 | 2448.4 | 2484.5 | 2557.9 | 2641.0 | 2719.2 | 2781.8 | 2849.2 | 2914.2 | 2974.4 | 2992.5 |
| 17.5° | 2518.2 | 2530.2 | 2584.4 | 2678.3 | 2784.2 | 2856.4 | 2915.4 | 2970.8 | 3027.3 | 3085.1 | 3093.6 |
| 20° | 2625.3 | 2637.3 | 2709.6 | 2822.7 | 2947.9 | 3034.6 | 3074.3 | 3087.5 | 3115.2 | 3170.6 | 3177.8 |
| 22.5° | 2771.0 | 2783.0 | 2863.7 | 2991.2 | 3130.8 | 3224.8 | 3241.6 | 3210.3 | 3203.1 | 3246.4 | 3251.3 |
| 25° | 2935.9 | 2946.7 | 3039.4 | 3176.6 | 3321.0 | 3423.4 | 3418.6 | 3341.5 | 3298.2 | 3324.7 | 3331.9 |
| 27.5° | 3121.2 | 3136.9 | 3230.7 | 3372.8 | 3529.3 | 3619.6 | 3605.1 | 3493.2 | 3400.5 | 3395.7 | 3398.1 |
| 30° | 3358.4 | 3375.2 | 3464.3 | 3600.3 | 3754.4 | 3837.4 | 3807.3 | 3656.9 | 3513.6 | 3465.5 | 3465.5 |
| 32.5° | 3608.8 | 3650.9 | 3741.2 | 3883.2 | 4003.6 | 4063.8 | 4018.0 | 3837.4 | 3647.3 | 3579.9 | 3576.3 |
| 35° | 3935.0 | 3957.8 | 4046.9 | 4185.3 | 4275.6 | 4322.6 | 4234.7 | 4040.9 | 3821.8 | 3742.3 | 3731.5 |
| 37.5° | 4254.0 | 4273.2 | 4376.7 | 4509.1 | 4618.7 | 4616.3 | 4497.1 | 4282.9 | 4038.5 | 3949.4 | 3942.2 |
| 40° | 4580.2 | 4600.6 | 4718.6 | 4840.1 | 4949.7 | 4940.0 | 4795.6 | 4556.0 | 4296.1 | 4196.2 | 4215.4 |
| 42.5° | 4863.0 | 4885.8 | 5019.5 | 5192.9 | 5291.5 | 5289.1 | 5121.8 | 4852.2 | 4581.3 | 4492.2 | 4509.1 |
| 45° | 5120.6 | 5141.1 | 5296.4 | 5494.9 | 5639.4 | 5657.5 | 5474.5 | 5189.2 | 4911.1 | 4796.8 | 4801.6 |
| 47.5° | 5302.4 | 5340.8 | 5503.4 | 5730.9 | 5927.1 | 5990.9 | 5811.5 | 5532.3 | 5212.1 | 5092.9 | 5100.1 |
| 50° | 5440.8 | 5464.9 | 5641.8 | 5900.6 | 6148.6 | 6281.0 | 6136.5 | 5850.0 | 5513.0 | 5386.6 | 5403.5 |
| 52.5° | 5457.7 | 5486.6 | 5679.1 | 5977.7 | 6295.4 | 6496.5 | 6425.5 | 6160.6 | 5820.0 | 5690.0 | 5726.1 |
| 55° | 5320.4 | 5337.2 | 5567.2 | 5929.5 | 6353.2 | 6656.5 | 6674.6 | 6449.5 | 6112.5 | 6013.8 | 6037.9 |
| 57.5° | 4929.2 | 4972.5 | 5263.9 | 5704.4 | 6273.8 | 6742.0 | 6861.2 | 6711.9 | 6408.5 | 6311.1 | 6349.6 |
| 60° | 4287.6 | 4330.9 | 4623.5 | 5182.0 | 5974.1 | 6702.2 | 7015.2 | 6944.2 | 6677.0 | 6598.7 | 6619.2 |
| 62.5° | 3359.5 | 3355.9 | 3718.3 | 4403.2 | 5378.2 | 6507.3 | 7129.6 | 7168.1 | 6941.8 | 6843.1 | 6874.4 |
| 65° | 2177.5 | 2188.3 | 2538.6 | 3276.5 | 4479.0 | 6011.3 | 7154.9 | 7453.4 | 7201.8 | 7052.6 | 7075.4 |
| 66° | 1751.4 | 1783.9 | 2081.2 | 2761.3 | 4020.4 | 5686.4 | 7079.0 | 7537.6 | 7281.3 | 7100.7 | 7111.5 |
| 67.5° | 1292.8 | 1286.8 | 1531.2 | 2055.9 | 3210.3 | 5068.8 | 6841.9 | 7590.6 | 7371.6 | 7144.0 | 7148.9 |
| 70° | 737.9 | 736.6 | 823.3 | 1129.1 | 1887.4 | 3569.0 | 5767.0 | 7336.6 | 7554.5 | 7300.5 | 7287.3 |
| 72.5° | 539.3 | 535.7 | 547.7 | 623.5 | 920.8 | 1802.0 | 3978.3 | 6412.2 | 7460.7 | 7275.2 | 7238.0 |
| 75° | 452.6 | 450.2 | 447.8 | 457.4 | 516.4 | 816.1 | 2111.3 | 4612.7 | 6473.6 | 6828.7 | 6790.2 |
| 77.5° | 369.6 | 369.6 | 370.8 | 368.3 | 370.8 | 429.7 | 875.1 | 2472.4 | 3942.2 | 4400.8 | 4507.9 |
| 80° | 288.9 | 287.7 | 308.2 | 299.7 | 280.5 | 275.6 | 387.6 | 795.7 | 1308.5 | 1301.2 | 1073.7 |
| 82.5° | 213.1 | 198.6 | 234.7 | 228.7 | 207.0 | 175.7 | 226.3 | 339.4 | 436.9 | 284.1 | 210.6 |
| 85° | 134.8 | 133.6 | 166.1 | 151.7 | 126.4 | 83.1 | 108.4 | 145.6 | 180.6 | 109.5 | 89.1 |
| 87.5° | 24.0 | 22.9 | 52.9 | 38.5 | 38.5 | 24.0 | 30.1 | 39.7 | 59.0 | 41.0 | 30.1 |
| 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)