

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P635178

Luminaire Tested: GWS-SA3D-730-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635178  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3D-730-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (48) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

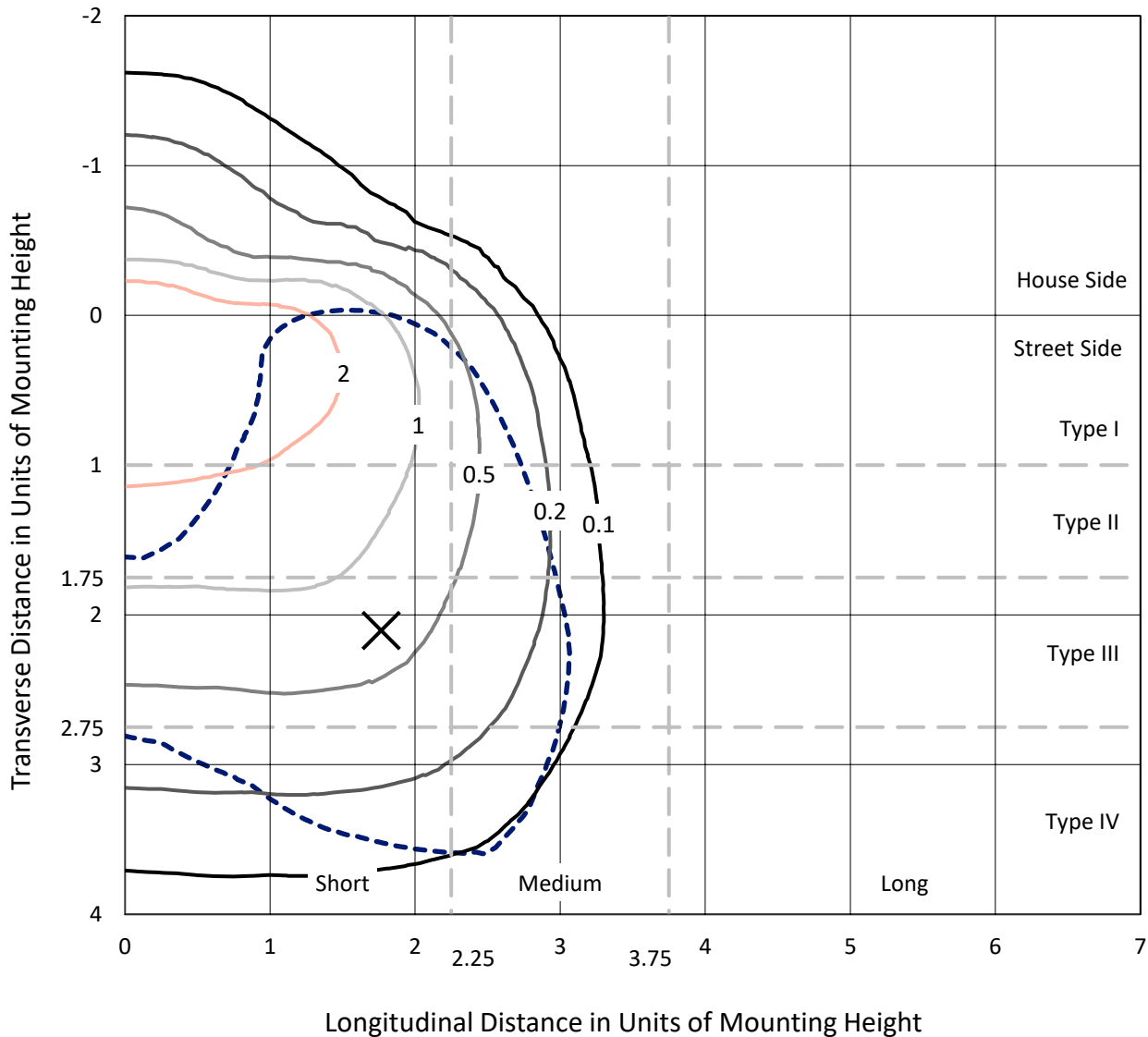
Lumens per Lamp: N/A  
Luminaire Lumens: 15390.4 lumens  
Efficiency: N/A  
Efficacy: 127.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 120.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

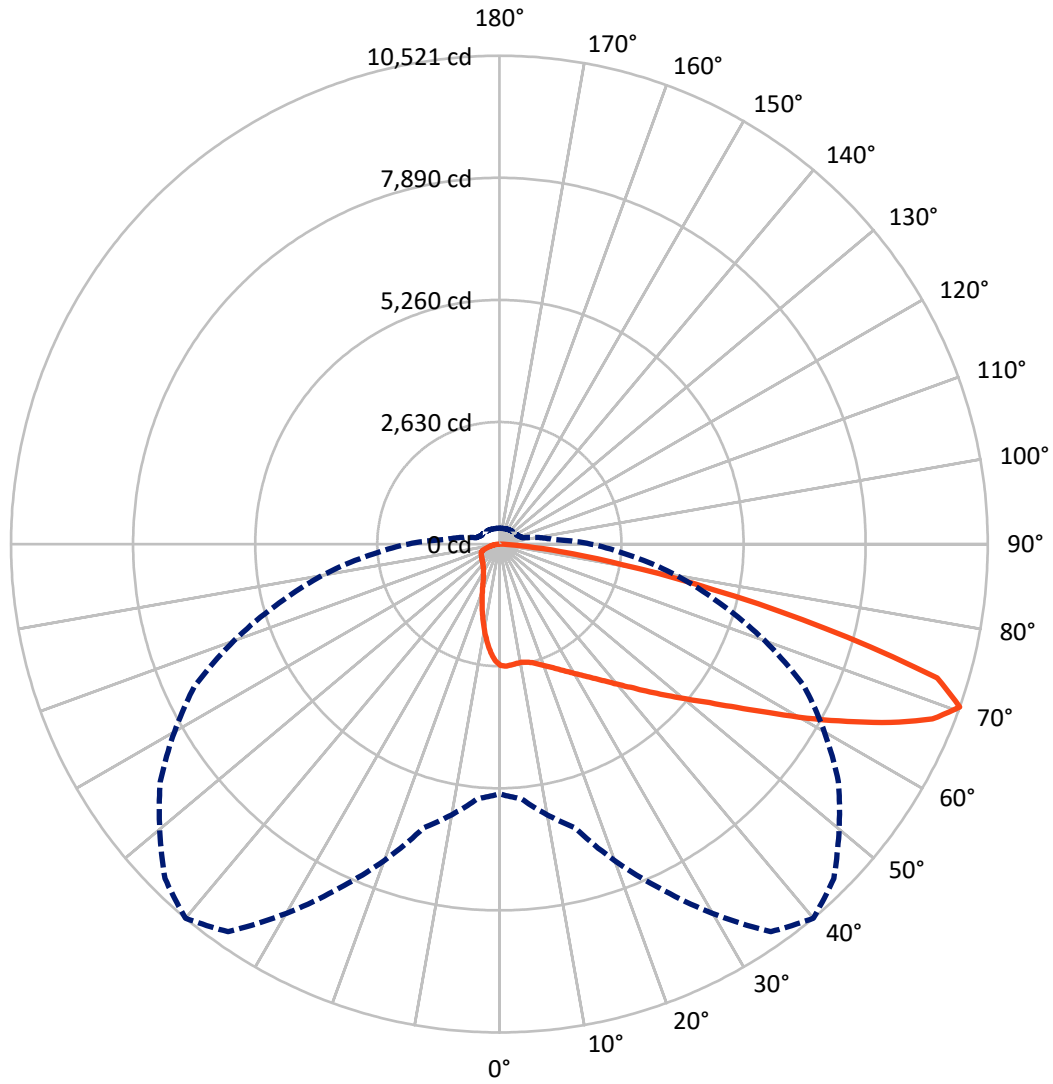
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 2370.5   | 0.0    | 2370.5  |
|                    | % Fixture | 15.4     | 0.0    | 15.4    |
| <b>Street Side</b> | Lumens    | 13019.9  | 0.0    | 13019.9 |
|                    | % Fixture | 84.6     | 0.0    | 84.6    |
| <b>Total</b>       | Lumens    | 15390.4  | 0.0    | 15390.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 230.9   | 1.5       |
| 10°-20°   | 601.8   | 3.9       |
| 20°-30°   | 944.9   | 6.1       |
| 30°-40°   | 1420.7  | 9.2       |
| 40°-50°   | 2192.9  | 14.2      |
| 50°-60°   | 3256.7  | 21.2      |
| 60°-70°   | 4105.0  | 26.7      |
| 70°-80°   | 2373.9  | 15.4      |
| 80°-90°   | 263.5   | 1.7       |
| 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°    | 15390.4 | 100.0     |
| 0°-180°   | 15390.4 | 100.0     |

**Coefficient of Utilization**



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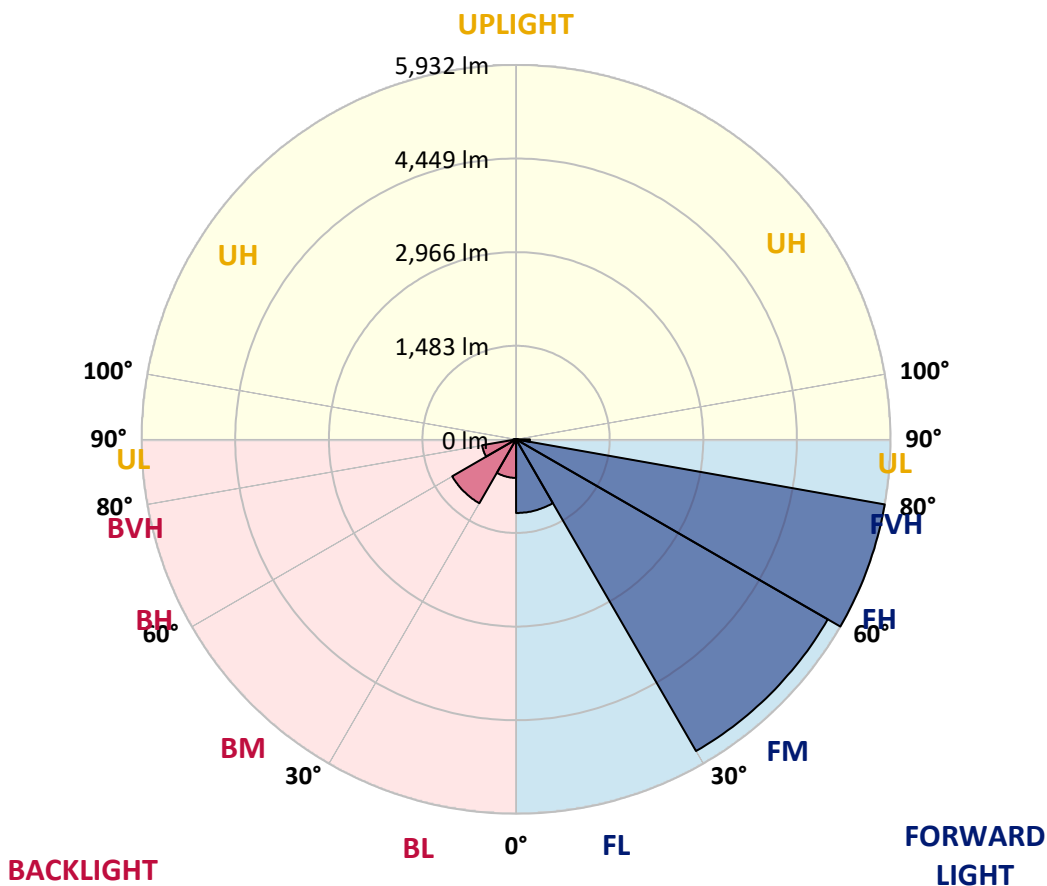
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1166.7 | 7.6       |                         |      |         |
| FM (30°-60°)   | 5701.9 | 37.0      |                         |      |         |
| FH (60°-80°)   | 5931.8 | 38.5      |                         |      | G3/7500 |
| FVH (80°-90°)  | 219.4  | 1.4       |                         |      | G2/225  |
| BL (0°-30°)    | 610.9  | 4.0       | B2/1000                 |      |         |
| BM (30°-60°)   | 1168.4 | 7.6       | B2/2500                 |      |         |
| BH (60°-80°)   | 547.1  | 3.6       | B2/1000                 |      | G2/1000 |
| BVH (80°-90°)  | 44.0   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 40°     | 45°     | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 2613.5 | 2613.5 | 2613.5 | 2613.5 | 2613.5  | 2613.5  | 2613.5  | 2613.5 | 2613.5 | 2613.5 | 2613.5 |
| 2.5°  | 2629.5 | 2634.1 | 2637.6 | 2642.2 | 2639.9  | 2633.0  | 2638.7  | 2638.7 | 2626.1 | 2612.3 | 2599.7 |
| 5°    | 2633.0 | 2638.7 | 2637.6 | 2636.4 | 2627.3  | 2615.8  | 2615.8  | 2608.9 | 2587.0 | 2565.2 | 2544.5 |
| 7.5°  | 2626.1 | 2625.0 | 2623.8 | 2620.4 | 2610.0  | 2597.4  | 2595.1  | 2581.3 | 2552.6 | 2522.7 | 2492.8 |
| 10°   | 2595.1 | 2593.9 | 2597.4 | 2605.4 | 2603.1  | 2591.6  | 2591.6  | 2579.0 | 2545.7 | 2508.9 | 2469.9 |
| 12.5° | 2569.8 | 2569.8 | 2583.6 | 2605.4 | 2613.5  | 2608.9  | 2610.0  | 2600.8 | 2562.9 | 2519.3 | 2473.3 |
| 15°   | 2573.3 | 2574.4 | 2604.3 | 2639.9 | 2654.8  | 2651.4  | 2652.5  | 2642.2 | 2599.7 | 2556.0 | 2494.0 |
| 17.5° | 2596.2 | 2602.0 | 2653.7 | 2703.1 | 2722.6  | 2718.0  | 2710.0  | 2692.7 | 2644.5 | 2595.1 | 2519.3 |
| 20°   | 2644.5 | 2653.7 | 2720.3 | 2782.3 | 2805.3  | 2795.0  | 2781.2  | 2746.7 | 2693.9 | 2639.9 | 2546.8 |
| 22.5° | 2739.8 | 2745.6 | 2819.1 | 2880.0 | 2898.4  | 2885.7  | 2858.2  | 2808.8 | 2747.9 | 2691.6 | 2580.2 |
| 25°   | 2874.2 | 2881.1 | 2951.2 | 3007.5 | 3002.9  | 2988.0  | 2950.1  | 2889.2 | 2816.8 | 2757.1 | 2628.4 |
| 27.5° | 3033.9 | 3045.4 | 3114.3 | 3159.1 | 3129.3  | 3107.4  | 3064.9  | 2991.4 | 2909.9 | 2855.9 | 2701.9 |
| 30°   | 3208.5 | 3213.1 | 3271.7 | 3316.5 | 3270.6  | 3240.7  | 3189.0  | 3109.7 | 3036.2 | 2996.0 | 2812.2 |
| 32.5° | 3377.4 | 3382.0 | 3432.5 | 3457.8 | 3409.6  | 3387.7  | 3342.9  | 3259.1 | 3207.4 | 3185.6 | 2976.5 |
| 35°   | 3555.5 | 3554.3 | 3595.7 | 3617.5 | 3568.1  | 3558.9  | 3513.0  | 3448.6 | 3439.4 | 3468.2 | 3216.6 |
| 37.5° | 3733.5 | 3723.2 | 3745.0 | 3773.7 | 3746.2  | 3755.4  | 3725.5  | 3703.7 | 3739.3 | 3813.9 | 3535.9 |
| 40°   | 3876.0 | 3876.0 | 3898.9 | 3934.6 | 3943.7  | 3984.0  | 3966.7  | 3995.4 | 4110.3 | 4288.4 | 3931.1 |
| 42.5° | 4002.3 | 4003.5 | 4051.7 | 4106.9 | 4173.5  | 4235.5  | 4249.3  | 4324.0 | 4561.8 | 4840.9 | 4427.4 |
| 45°   | 4134.4 | 4135.6 | 4201.1 | 4281.5 | 4422.8  | 4541.1  | 4568.7  | 4736.4 | 5076.4 | 5416.5 | 4966.2 |
| 47.5° | 4287.2 | 4274.6 | 4365.4 | 4499.8 | 4700.8  | 4870.8  | 4942.0  | 5179.8 | 5609.5 | 6027.6 | 5473.9 |
| 50°   | 4459.6 | 4433.1 | 4534.2 | 4766.3 | 5014.4  | 5247.6  | 5367.1  | 5639.3 | 6181.6 | 6591.7 | 5951.8 |
| 52.5° | 4653.7 | 4638.8 | 4744.4 | 5027.0 | 5406.1  | 5675.0  | 5836.9  | 6194.2 | 6737.6 | 7153.4 | 6330.9 |
| 55°   | 4894.9 | 4859.3 | 5012.1 | 5371.7 | 5865.7  | 6208.0  | 6399.8  | 6743.3 | 7345.3 | 7663.5 | 6620.4 |
| 57.5° | 5159.2 | 5120.1 | 5324.6 | 5802.5 | 6463.0  | 6838.7  | 7078.8  | 7361.4 | 7917.4 | 8054.1 | 6790.4 |
| 60°   | 5444.1 | 5431.4 | 5673.8 | 6307.9 | 7175.3  | 7611.8  | 7785.3  | 8041.4 | 8414.8 | 8280.4 | 6747.9 |
| 62.5° | 5704.8 | 5700.2 | 6052.9 | 6855.9 | 7930.0  | 8410.2  | 8548.0  | 8615.8 | 8773.2 | 8265.4 | 6410.2 |
| 65°   | 5979.4 | 6018.4 | 6495.2 | 7491.2 | 8795.0  | 9266.0  | 9323.5  | 9151.2 | 8893.8 | 7873.7 | 5718.6 |
| 67.5° | 6013.8 | 6089.7 | 6773.2 | 8086.2 | 9615.3  | 10059.8 | 10013.9 | 9354.5 | 8537.7 | 6783.5 | 4482.5 |
| 70°   | 5378.6 | 5510.7 | 6329.8 | 8177.0 | 10193.1 | 10520.5 | 10188.5 | 8916.8 | 7245.3 | 4914.5 | 2819.1 |
| 72.5° | 4494.0 | 4607.7 | 5331.5 | 6973.1 | 9447.5  | 9864.5  | 9415.4  | 7547.5 | 5120.1 | 2819.1 | 1436.0 |
| 75°   | 3498.0 | 3630.1 | 4297.6 | 5542.8 | 7073.0  | 7239.6  | 7014.4  | 5263.7 | 2814.5 | 1162.6 | 652.5  |
| 77.5° | 2134.4 | 2229.8 | 2749.0 | 3755.4 | 4948.9  | 4699.6  | 3982.8  | 2951.2 | 1234.9 | 557.2  | 403.2  |
| 80°   | 944.3  | 1002.9 | 1354.4 | 2017.3 | 2859.3  | 2703.1  | 2131.0  | 1260.2 | 675.5  | 353.8  | 281.5  |
| 82.5° | 506.6  | 544.5  | 667.4  | 798.4  | 1255.6  | 1313.1  | 1064.9  | 726.0  | 363.0  | 202.2  | 160.8  |
| 85°   | 222.9  | 244.7  | 303.3  | 289.5  | 412.4   | 405.5   | 409.0   | 498.6  | 173.5  | 93.1   | 104.5  |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 1.1     | 1.1     | 12.6    | 66.6   | 17.2   | 27.6   | 24.1   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2613.5 | 2613.5 | 2613.5 | 2613.5 | 2613.5 | 2613.5 | 2613.5 | 2613.5 | 2613.5 | 2613.5 | 2613.5 |
| 2.5°  | 2585.9 | 2565.2 | 2559.5 | 2552.6 | 2539.9 | 2518.1 | 2502.0 | 2483.7 | 2475.6 | 2466.4 | 2467.6 |
| 5°    | 2521.6 | 2496.3 | 2472.2 | 2441.1 | 2402.1 | 2358.4 | 2328.6 | 2294.1 | 2275.7 | 2258.5 | 2263.1 |
| 7.5°  | 2466.4 | 2427.4 | 2378.0 | 2312.5 | 2242.4 | 2164.3 | 2101.1 | 2051.7 | 2018.4 | 1995.4 | 2006.9 |
| 10°   | 2432.0 | 2386.0 | 2299.9 | 2193.0 | 2074.7 | 1955.2 | 1864.5 | 1779.5 | 1726.6 | 1685.3 | 1683.0 |
| 12.5° | 2425.1 | 2365.3 | 2240.1 | 2085.0 | 1913.9 | 1754.2 | 1620.9 | 1506.0 | 1436.0 | 1384.3 | 1403.8 |
| 15°   | 2432.0 | 2356.1 | 2188.4 | 1985.1 | 1769.1 | 1553.1 | 1387.7 | 1255.6 | 1171.8 | 1124.7 | 1121.2 |
| 17.5° | 2440.0 | 2347.0 | 2129.8 | 1877.1 | 1617.5 | 1370.5 | 1178.6 | 1038.5 | 952.3  | 905.2  | 906.4  |
| 20°   | 2446.9 | 2333.2 | 2060.9 | 1758.8 | 1463.5 | 1200.5 | 1001.7 | 868.5  | 791.5  | 757.0  | 762.8  |
| 22.5° | 2458.4 | 2319.4 | 1987.4 | 1632.4 | 1306.2 | 1036.2 | 861.6  | 753.6  | 707.6  | 684.7  | 685.8  |
| 25°   | 2480.2 | 2311.3 | 1911.6 | 1494.6 | 1151.1 | 905.2  | 765.1  | 692.7  | 664.0  | 650.2  | 649.1  |
| 27.5° | 2525.0 | 2318.2 | 1832.3 | 1361.3 | 1010.9 | 805.3  | 703.1  | 656.0  | 636.4  | 627.2  | 626.1  |
| 30°   | 2599.7 | 2345.8 | 1763.4 | 1225.7 | 890.3  | 727.2  | 660.5  | 631.8  | 620.3  | 612.3  | 611.1  |
| 32.5° | 2713.4 | 2397.5 | 1688.7 | 1099.4 | 792.7  | 669.7  | 627.2  | 612.3  | 604.3  | 599.7  | 599.7  |
| 35°   | 2885.7 | 2491.7 | 1615.2 | 989.1  | 716.8  | 624.9  | 600.8  | 595.1  | 588.2  | 585.9  | 588.2  |
| 37.5° | 3133.9 | 2642.2 | 1548.6 | 892.6  | 662.8  | 590.5  | 572.1  | 574.4  | 568.6  | 572.1  | 575.5  |
| 40°   | 3448.6 | 2843.2 | 1492.3 | 813.3  | 622.6  | 565.2  | 546.8  | 554.9  | 551.4  | 554.9  | 560.6  |
| 42.5° | 3847.3 | 3092.5 | 1449.8 | 751.3  | 593.9  | 544.5  | 527.3  | 535.3  | 533.0  | 537.6  | 543.4  |
| 45°   | 4291.8 | 3421.1 | 1430.2 | 707.6  | 573.2  | 529.6  | 511.2  | 516.9  | 514.7  | 518.1  | 523.8  |
| 47.5° | 4718.0 | 3719.7 | 1447.5 | 682.4  | 556.0  | 516.9  | 497.4  | 499.7  | 498.6  | 497.4  | 500.9  |
| 50°   | 5085.6 | 3957.5 | 1496.9 | 674.3  | 544.5  | 504.3  | 485.9  | 487.1  | 483.6  | 476.7  | 479.0  |
| 52.5° | 5385.5 | 4148.2 | 1526.7 | 674.3  | 538.8  | 490.5  | 473.3  | 474.4  | 467.6  | 458.4  | 459.5  |
| 55°   | 5583.1 | 4225.2 | 1502.6 | 673.2  | 536.5  | 479.0  | 460.7  | 461.8  | 454.9  | 443.4  | 444.6  |
| 57.5° | 5639.3 | 4150.5 | 1401.5 | 660.5  | 534.2  | 469.8  | 448.0  | 450.3  | 445.7  | 433.1  | 433.1  |
| 60°   | 5482.0 | 3877.1 | 1216.6 | 631.8  | 528.4  | 464.1  | 438.8  | 442.3  | 440.0  | 427.3  | 427.3  |
| 62.5° | 5069.6 | 3391.2 | 996.0  | 588.2  | 512.4  | 457.2  | 430.8  | 437.7  | 443.4  | 436.5  | 435.4  |
| 65°   | 4297.6 | 2716.9 | 809.9  | 539.9  | 491.7  | 445.7  | 419.3  | 436.5  | 449.2  | 458.4  | 458.4  |
| 67.5° | 3224.6 | 1944.9 | 660.5  | 489.4  | 460.7  | 422.7  | 404.4  | 420.5  | 429.6  | 435.4  | 438.8  |
| 70°   | 1965.6 | 1144.2 | 520.4  | 430.8  | 415.9  | 388.3  | 374.5  | 358.4  | 345.8  | 343.5  | 344.6  |
| 72.5° | 961.5  | 654.8  | 422.7  | 366.5  | 355.0  | 329.7  | 298.7  | 291.8  | 286.0  | 282.6  | 281.5  |
| 75°   | 529.6  | 456.1  | 349.2  | 304.4  | 283.7  | 252.7  | 245.8  | 234.4  | 232.1  | 227.5  | 228.6  |
| 77.5° | 374.5  | 359.6  | 288.3  | 247.0  | 216.0  | 199.9  | 203.3  | 195.3  | 195.3  | 191.8  | 190.7  |
| 80°   | 281.5  | 282.6  | 221.7  | 180.4  | 159.7  | 153.9  | 157.4  | 157.4  | 155.1  | 153.9  | 152.8  |
| 82.5° | 178.1  | 201.0  | 149.3  | 116.0  | 113.7  | 114.9  | 113.7  | 112.6  | 114.9  | 111.4  | 110.3  |
| 85°   | 122.9  | 144.7  | 90.8   | 68.9   | 68.9   | 67.8   | 70.1   | 68.9   | 71.2   | 67.8   | 67.8   |
| 87.5° | 27.6   | 64.3   | 33.3   | 20.7   | 21.8   | 20.7   | 21.8   | 23.0   | 25.3   | 26.4   | 26.4   |
| 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)