

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: P632719

Luminaire Tested: GWS-SA2D-730-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632719  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-730-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

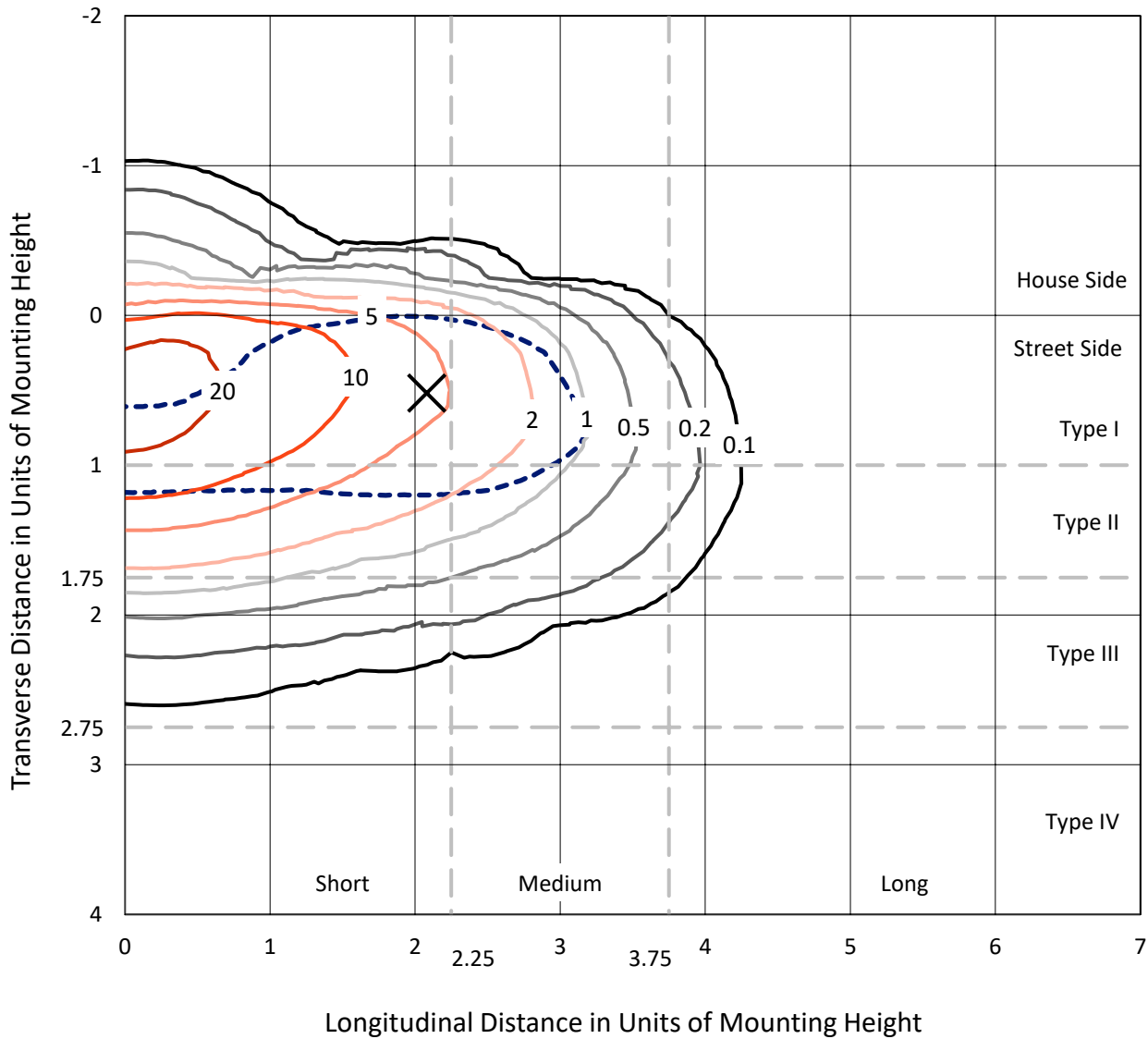
Lumens per Lamp: N/A  
Luminaire Lumens: 8574.9 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

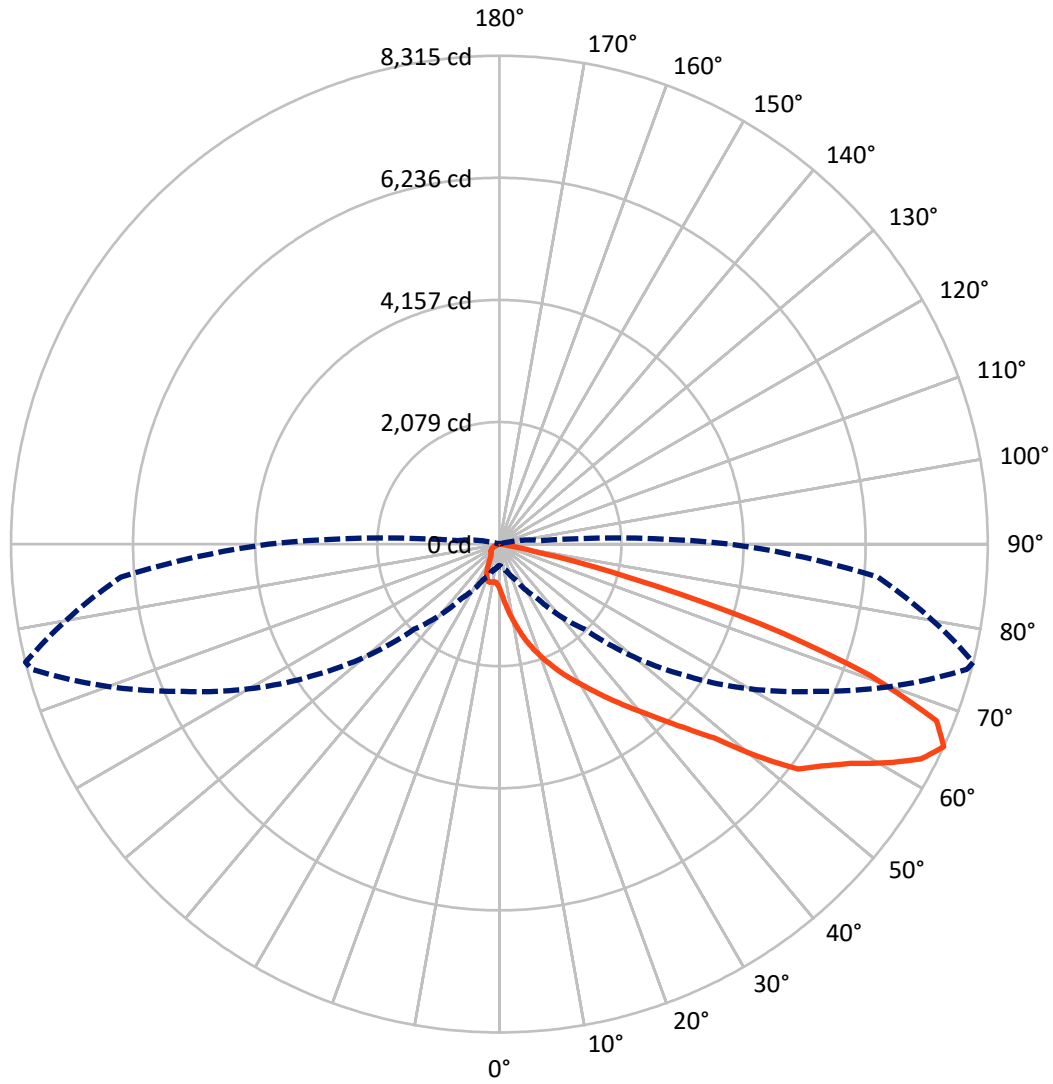
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 25.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 474.1    | 0.0    | 474.1  |
|                    | % Fixture | 5.5      | 0.0    | 5.5    |
| <b>Street Side</b> | Lumens    | 8100.8   | 0.0    | 8100.8 |
|                    | % Fixture | 94.5     | 0.0    | 94.5   |
| <b>Total</b>       | Lumens    | 8574.9   | 0.0    | 8574.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 92.4   | 1.1       |
| 10°-20°   | 350.5  | 4.1       |
| 20°-30°   | 715.0  | 8.3       |
| 30°-40°   | 1271.6 | 14.8      |
| 40°-50°   | 1879.8 | 21.9      |
| 50°-60°   | 2152.2 | 25.1      |
| 60°-70°   | 1642.0 | 19.1      |
| 70°-80°   | 460.0  | 5.4       |
| 80°-90°   | 11.6   | 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°    | 8574.9 | 100.0     |
| 0°-180°   | 8574.9 | 100.0     |

**Coefficient of Utilization**



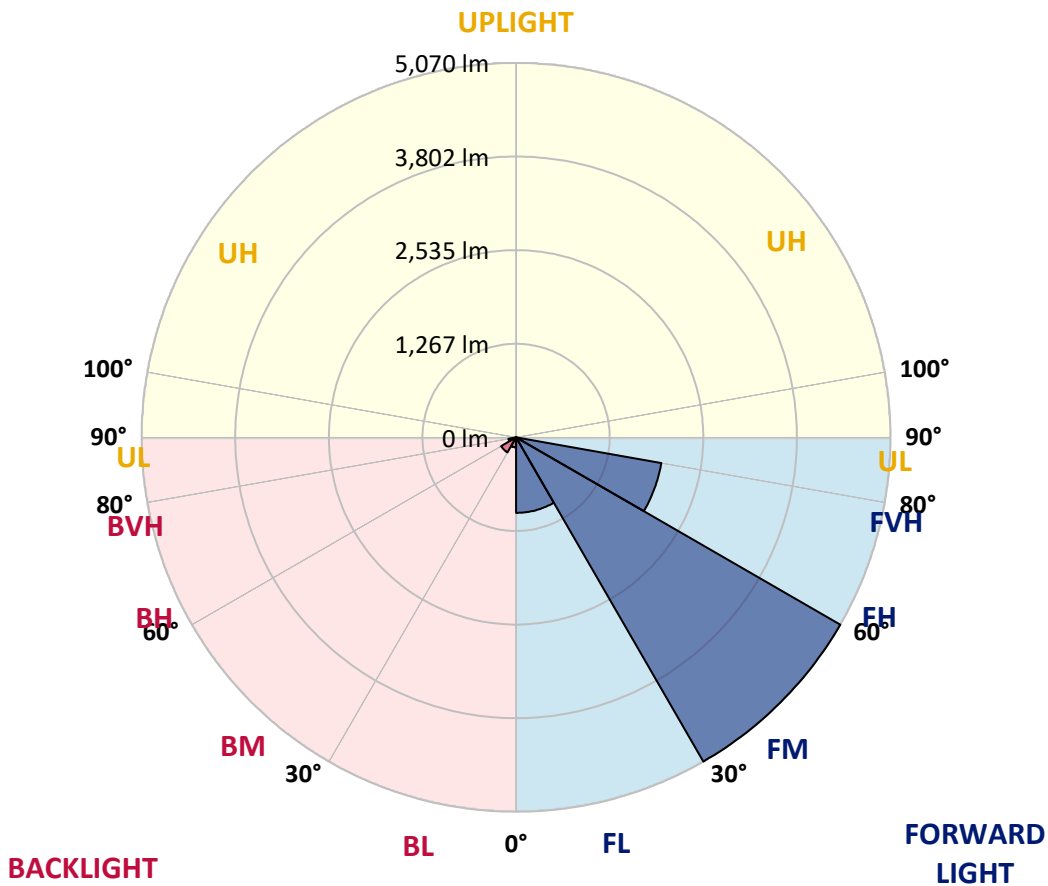
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 1022.5 | 11.9      |                         |      |         |
| FM (30°-60°)   | 5069.6 | 59.1      |                         |      |         |
| FH (60°-80°)   | 1997.7 | 23.3      |                         |      | G2/5000 |
| FVH (80°-90°)  | 10.9   | 0.1       |                         |      | G1/100  |
| BL (0°-30°)    | 135.3  | 1.6       | B1/500                  |      |         |
| BM (30°-60°)   | 233.9  | 2.7       | B1/1000                 |      |         |
| BH (60°-80°)   | 104.2  | 1.2       | B0/110                  |      | G0/110  |
| BVH (80°-90°)  | 0.7    | 0.0       |                         |      | G0/10   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 76°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 759.2  | 759.2  | 759.2  | 759.2  | 759.2  | 759.2  | 759.2  | 759.2  | 759.2  | 759.2  | 759.2  |
| 2.5°  | 1170.0 | 1187.6 | 1173.9 | 1151.0 | 1106.8 | 1064.1 | 1009.2 | 933.7  | 873.5  | 865.9  | 809.5  |
| 5°    | 1580.1 | 1578.6 | 1548.9 | 1519.1 | 1472.6 | 1399.5 | 1288.9 | 1148.7 | 1013.8 | 1002.3 | 875.8  |
| 7.5°  | 1824.0 | 1826.3 | 1809.6 | 1786.7 | 1741.0 | 1665.5 | 1550.4 | 1381.2 | 1183.8 | 1160.9 | 966.5  |
| 10°   | 2029.1 | 2028.3 | 2016.1 | 2005.5 | 1964.3 | 1914.0 | 1790.5 | 1604.5 | 1366.7 | 1330.9 | 1067.9 |
| 12.5° | 2183.1 | 2188.4 | 2194.5 | 2205.2 | 2187.6 | 2138.1 | 2021.5 | 1818.7 | 1551.9 | 1512.3 | 1183.8 |
| 15°   | 2305.0 | 2306.5 | 2329.4 | 2370.6 | 2385.1 | 2359.1 | 2253.2 | 2026.0 | 1734.9 | 1700.6 | 1317.2 |
| 17.5° | 2341.6 | 2344.7 | 2383.5 | 2459.0 | 2535.2 | 2549.7 | 2469.7 | 2234.9 | 1914.7 | 1878.2 | 1446.7 |
| 20°   | 2418.6 | 2425.4 | 2454.4 | 2520.7 | 2616.8 | 2694.5 | 2663.3 | 2446.0 | 2094.6 | 2046.6 | 1579.4 |
| 22.5° | 2661.0 | 2664.8 | 2654.9 | 2663.3 | 2712.8 | 2802.8 | 2821.8 | 2650.3 | 2279.1 | 2228.0 | 1722.7 |
| 25°   | 3077.9 | 3079.5 | 3010.1 | 2944.5 | 2907.2 | 2924.0 | 2965.9 | 2838.6 | 2462.0 | 2411.7 | 1856.1 |
| 27.5° | 3510.9 | 3516.2 | 3433.1 | 3321.8 | 3188.5 | 3112.2 | 3100.0 | 3010.8 | 2646.5 | 2590.9 | 1987.9 |
| 30°   | 3918.7 | 3918.7 | 3831.0 | 3695.3 | 3517.0 | 3368.3 | 3280.7 | 3184.6 | 2843.9 | 2782.9 | 2122.8 |
| 32.5° | 4285.3 | 4282.3 | 4170.2 | 4023.1 | 3847.0 | 3683.9 | 3499.4 | 3366.1 | 3063.4 | 2995.6 | 2278.3 |
| 35°   | 4587.9 | 4580.3 | 4453.0 | 4312.0 | 4123.7 | 4002.5 | 3796.7 | 3561.2 | 3301.3 | 3233.4 | 2438.4 |
| 37.5° | 4816.6 | 4808.2 | 4691.6 | 4542.2 | 4367.6 | 4289.1 | 4116.9 | 3795.2 | 3552.0 | 3490.3 | 2616.0 |
| 40°   | 4940.8 | 4924.1 | 4843.3 | 4732.0 | 4585.6 | 4517.0 | 4445.4 | 4085.6 | 3847.0 | 3770.0 | 2825.6 |
| 42.5° | 4977.4 | 4957.6 | 4904.3 | 4852.4 | 4764.0 | 4709.9 | 4786.9 | 4413.4 | 4171.0 | 4104.7 | 3065.0 |
| 45°   | 4869.2 | 4857.8 | 4853.2 | 4890.5 | 4906.5 | 4921.8 | 5111.6 | 4776.2 | 4528.5 | 4478.2 | 3366.1 |
| 47.5° | 4608.5 | 4605.5 | 4645.9 | 4801.4 | 4970.6 | 5131.4 | 5464.5 | 5223.6 | 4991.9 | 4937.8 | 3786.8 |
| 50°   | 4126.8 | 4158.0 | 4270.8 | 4543.7 | 4882.1 | 5250.3 | 5794.6 | 5844.1 | 5742.0 | 5662.7 | 4335.6 |
| 52.5° | 3373.7 | 3433.9 | 3687.0 | 4101.6 | 4587.9 | 5216.8 | 5947.0 | 6341.1 | 6445.5 | 6363.2 | 4728.9 |
| 55°   | 2647.3 | 2703.7 | 2929.3 | 3455.2 | 4103.9 | 4961.4 | 5953.9 | 6512.6 | 6740.5 | 6664.3 | 4995.0 |
| 57.5° | 1971.9 | 2023.7 | 2228.8 | 2731.9 | 3445.3 | 4459.1 | 5790.7 | 6607.9 | 7090.4 | 7041.6 | 5415.0 |
| 60°   | 1288.9 | 1340.0 | 1525.2 | 1965.1 | 2672.4 | 3727.4 | 5389.0 | 6588.0 | 7566.8 | 7562.2 | 5931.0 |
| 62.5° | 715.0  | 755.4  | 889.5  | 1232.5 | 1865.2 | 2886.6 | 4757.9 | 6389.1 | 8027.9 | 8056.9 | 6356.3 |
| 65°   | 365.9  | 391.8  | 473.4  | 677.6  | 1128.9 | 2046.6 | 3927.8 | 5933.3 | 8241.3 | 8314.5 | 6468.4 |
| 67.5° | 239.3  | 247.7  | 267.5  | 352.2  | 604.5  | 1287.4 | 2956.0 | 5202.3 | 7941.0 | 8026.4 | 6092.6 |
| 70°   | 194.4  | 201.2  | 212.7  | 234.8  | 311.8  | 683.7  | 1941.4 | 4155.0 | 6635.3 | 6693.2 | 4851.7 |
| 72.5° | 142.5  | 151.7  | 173.8  | 188.3  | 224.9  | 375.0  | 1010.0 | 2727.3 | 4556.7 | 4658.8 | 3049.0 |
| 75°   | 105.2  | 110.5  | 128.8  | 148.6  | 183.7  | 237.1  | 386.5  | 1433.8 | 2353.0 | 2293.6 | 1280.6 |
| 77.5° | 63.3   | 67.1   | 82.3   | 95.3   | 131.1  | 147.9  | 134.9  | 529.8  | 715.7  | 673.1  | 309.5  |
| 80°   | 31.3   | 35.1   | 54.1   | 71.7   | 83.8   | 59.5   | 56.4   | 147.9  | 159.3  | 159.3  | 77.7   |
| 82.5° | 10.7   | 13.7   | 29.0   | 47.3   | 41.2   | 22.9   | 26.7   | 38.1   | 42.7   | 45.0   | 22.9   |
| 85°   | 0.0    | 0.0    | 6.9    | 13.7   | 6.1    | 3.0    | 6.9    | 8.4    | 10.7   | 11.4   | 7.6    |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.8    | 2.3    | 3.0    | 3.0    |
| 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°    | 759.2  | 759.2  | 759.2 | 759.2 | 759.2 | 759.2 | 759.2 | 759.2 | 759.2 | 759.2 | 759.2 |
| 2.5°  | 779.0  | 743.2  | 689.1 | 640.3 | 602.9 | 567.9 | 541.2 | 519.8 | 516.0 | 503.8 | 505.4 |
| 5°    | 814.1  | 749.3  | 649.4 | 572.4 | 518.3 | 481.7 | 451.2 | 428.4 | 418.5 | 408.6 | 400.9 |
| 7.5°  | 868.2  | 774.4  | 634.2 | 540.4 | 477.2 | 420.8 | 373.5 | 335.4 | 317.1 | 305.7 | 298.0 |
| 10°   | 934.5  | 809.5  | 634.9 | 521.4 | 427.6 | 341.5 | 276.7 | 234.8 | 215.0 | 208.9 | 208.1 |
| 12.5° | 1013.8 | 853.7  | 641.0 | 490.1 | 356.0 | 253.8 | 205.0 | 186.0 | 179.9 | 174.6 | 174.6 |
| 15°   | 1097.6 | 903.3  | 641.0 | 433.0 | 271.4 | 198.2 | 177.6 | 165.4 | 157.8 | 154.7 | 153.2 |
| 17.5° | 1186.0 | 949.8  | 625.8 | 354.4 | 208.1 | 174.6 | 157.8 | 146.4 | 140.3 | 135.7 | 134.2 |
| 20°   | 1280.6 | 994.0  | 587.7 | 271.4 | 178.4 | 156.3 | 140.3 | 128.8 | 122.7 | 118.1 | 118.1 |
| 22.5° | 1376.6 | 1035.1 | 525.9 | 208.9 | 157.8 | 138.7 | 123.5 | 112.8 | 106.7 | 102.1 | 102.1 |
| 25°   | 1465.8 | 1062.6 | 446.7 | 172.3 | 142.5 | 123.5 | 109.8 | 99.1  | 92.2  | 89.2  | 87.7  |
| 27.5° | 1548.9 | 1080.1 | 359.0 | 151.7 | 128.1 | 110.5 | 96.0  | 86.1  | 80.8  | 78.5  | 77.0  |
| 30°   | 1635.0 | 1084.7 | 274.4 | 138.0 | 115.9 | 97.6  | 83.8  | 76.2  | 71.7  | 68.6  | 68.6  |
| 32.5° | 1718.9 | 1079.3 | 209.6 | 126.5 | 105.2 | 86.1  | 74.7  | 67.8  | 64.0  | 61.7  | 61.0  |
| 35°   | 1804.2 | 1054.9 | 170.0 | 116.6 | 94.5  | 75.5  | 66.3  | 61.0  | 58.7  | 55.6  | 55.6  |
| 37.5° | 1897.2 | 1022.2 | 147.9 | 106.7 | 83.8  | 67.8  | 59.5  | 55.6  | 52.6  | 50.3  | 49.5  |
| 40°   | 2013.1 | 984.1  | 135.7 | 98.3  | 73.9  | 61.0  | 53.4  | 49.5  | 47.3  | 45.0  | 44.2  |
| 42.5° | 2150.3 | 946.7  | 129.6 | 89.2  | 66.3  | 54.1  | 48.0  | 43.4  | 41.2  | 38.1  | 37.3  |
| 45°   | 2344.7 | 938.3  | 122.7 | 79.3  | 59.5  | 48.8  | 41.9  | 37.3  | 34.3  | 32.0  | 31.3  |
| 47.5° | 2657.2 | 961.9  | 111.3 | 68.6  | 52.6  | 42.7  | 35.8  | 32.0  | 28.2  | 25.9  | 24.4  |
| 50°   | 2967.4 | 955.8  | 99.9  | 59.5  | 46.5  | 36.6  | 30.5  | 26.7  | 22.9  | 20.6  | 19.8  |
| 52.5° | 3136.6 | 926.9  | 89.2  | 52.6  | 40.4  | 31.3  | 25.9  | 21.3  | 19.1  | 16.8  | 16.0  |
| 55°   | 3289.8 | 915.5  | 78.5  | 45.7  | 34.3  | 27.4  | 21.3  | 17.5  | 16.0  | 13.7  | 13.0  |
| 57.5° | 3590.2 | 942.1  | 69.4  | 39.6  | 29.7  | 23.6  | 18.3  | 14.5  | 13.0  | 10.7  | 9.9   |
| 60°   | 3904.2 | 945.2  | 59.5  | 34.3  | 25.9  | 19.8  | 14.5  | 11.4  | 9.9   | 7.6   | 6.9   |
| 62.5° | 4068.1 | 868.2  | 48.8  | 29.0  | 21.3  | 16.8  | 12.2  | 9.1   | 7.6   | 4.6   | 4.6   |
| 65°   | 3930.9 | 702.0  | 41.2  | 23.6  | 16.8  | 13.0  | 9.1   | 6.9   | 4.6   | 2.3   | 0.8   |
| 67.5° | 3478.9 | 499.3  | 34.3  | 19.1  | 12.2  | 9.1   | 6.9   | 4.6   | 0.8   | 0.0   | 0.0   |
| 70°   | 2547.4 | 285.1  | 26.7  | 13.7  | 9.1   | 6.1   | 4.6   | 2.3   | 0.0   | 0.0   | 0.0   |
| 72.5° | 1565.6 | 152.4  | 19.8  | 9.1   | 6.9   | 4.6   | 3.8   | 1.5   | 0.0   | 0.0   | 0.0   |
| 75°   | 593.8  | 73.2   | 12.2  | 6.1   | 5.3   | 3.8   | 2.3   | 0.8   | 0.0   | 0.0   | 0.0   |
| 77.5° | 160.8  | 35.8   | 6.9   | 4.6   | 3.8   | 2.3   | 1.5   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 41.9   | 16.8   | 4.6   | 3.0   | 2.3   | 1.5   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 14.5   | 7.6    | 2.3   | 2.3   | 1.5   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 6.1    | 3.0    | 1.5   | 1.5   | 0.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 2.3    | 0.8    | 0.8   | 0.8   | 0.8   | 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)