

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: P594298

Luminaire Tested: **ISC-PA1E-735-U-5WQ**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594298  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISC-PA1E-735-U-5WQ  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 3500K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9892 lumens  
Efficiency: N/A  
Efficacy: 120.0 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type V - Medium  
BUG Rating: B4 - U0 - G2

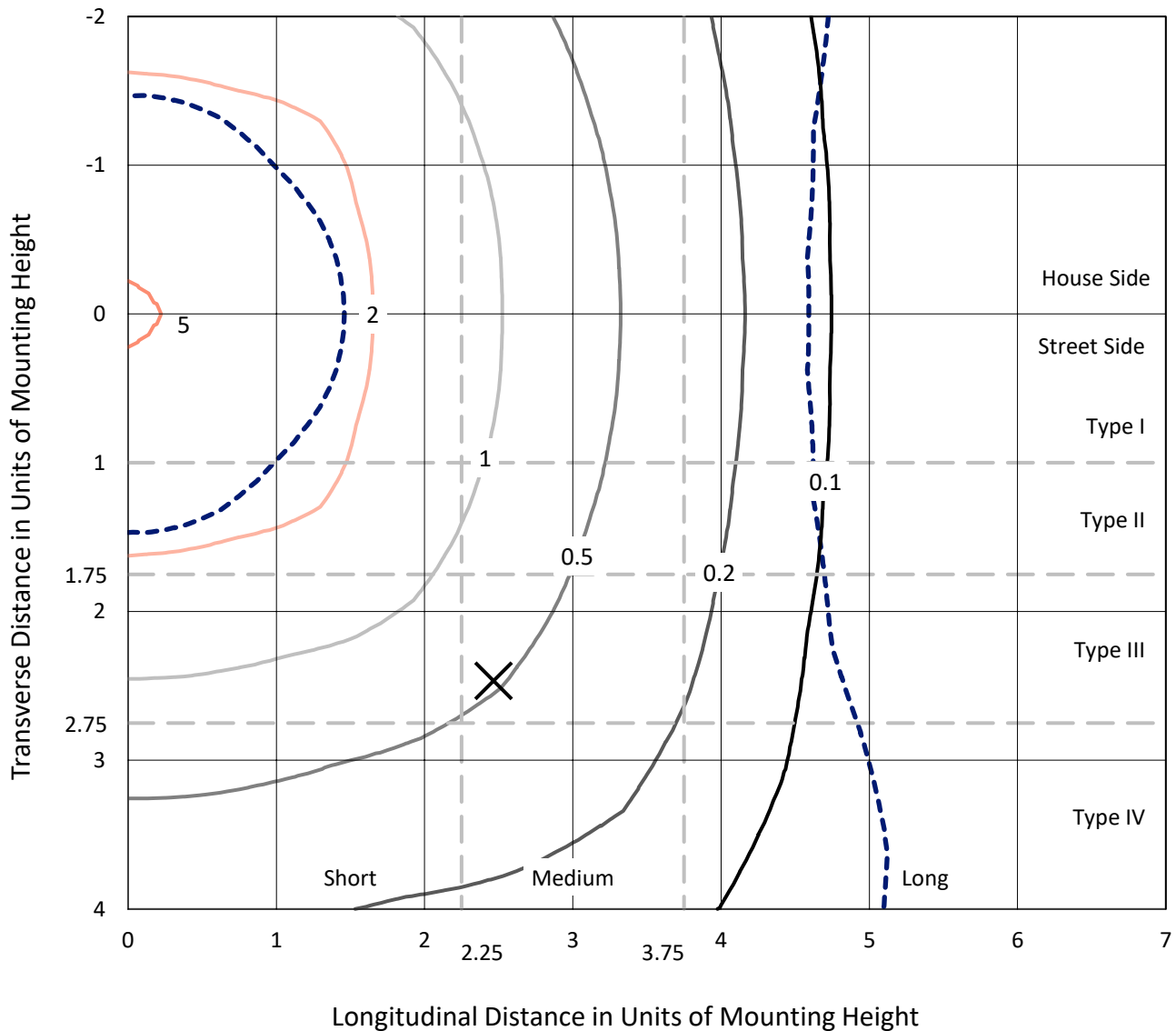
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

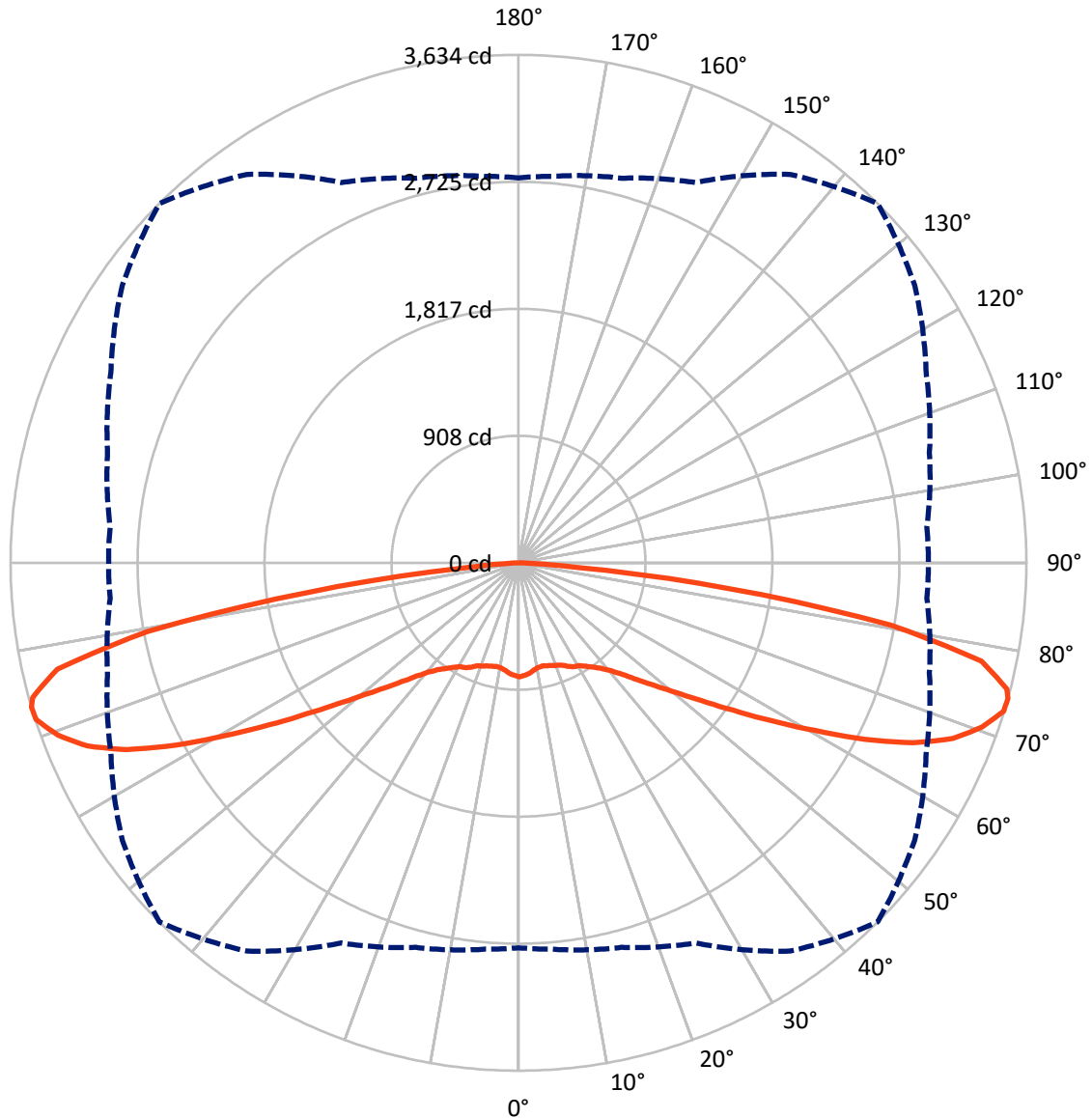
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.7 fc  
 Type V - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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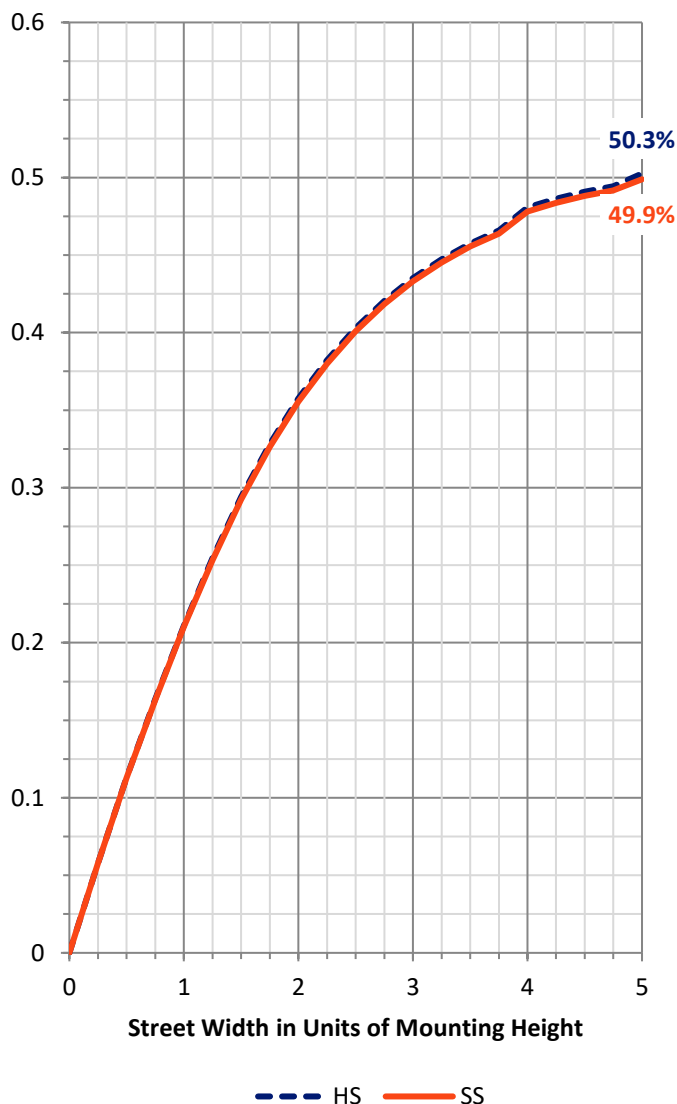
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 4946.0   | 0.0    | 4946.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 4946.0   | 0.0    | 4946.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 9892.0   | 0.0    | 9892.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 74.8   | 0.8       |
| 10°-20°   | 219.1  | 2.2       |
| 20°-30°   | 378.5  | 3.8       |
| 30°-40°   | 579.7  | 5.9       |
| 40°-50°   | 943.1  | 9.5       |
| 50°-60°   | 1635.4 | 16.5      |
| 60°-70°   | 2708.5 | 27.4      |
| 70°-80°   | 2930.6 | 29.6      |
| 80°-90°   | 422.3  | 4.3       |
| 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°    | 9892.0 | 100.0     |
| 0°-180°   | 9892.0 | 100.0     |

**Coefficient of Utilization**

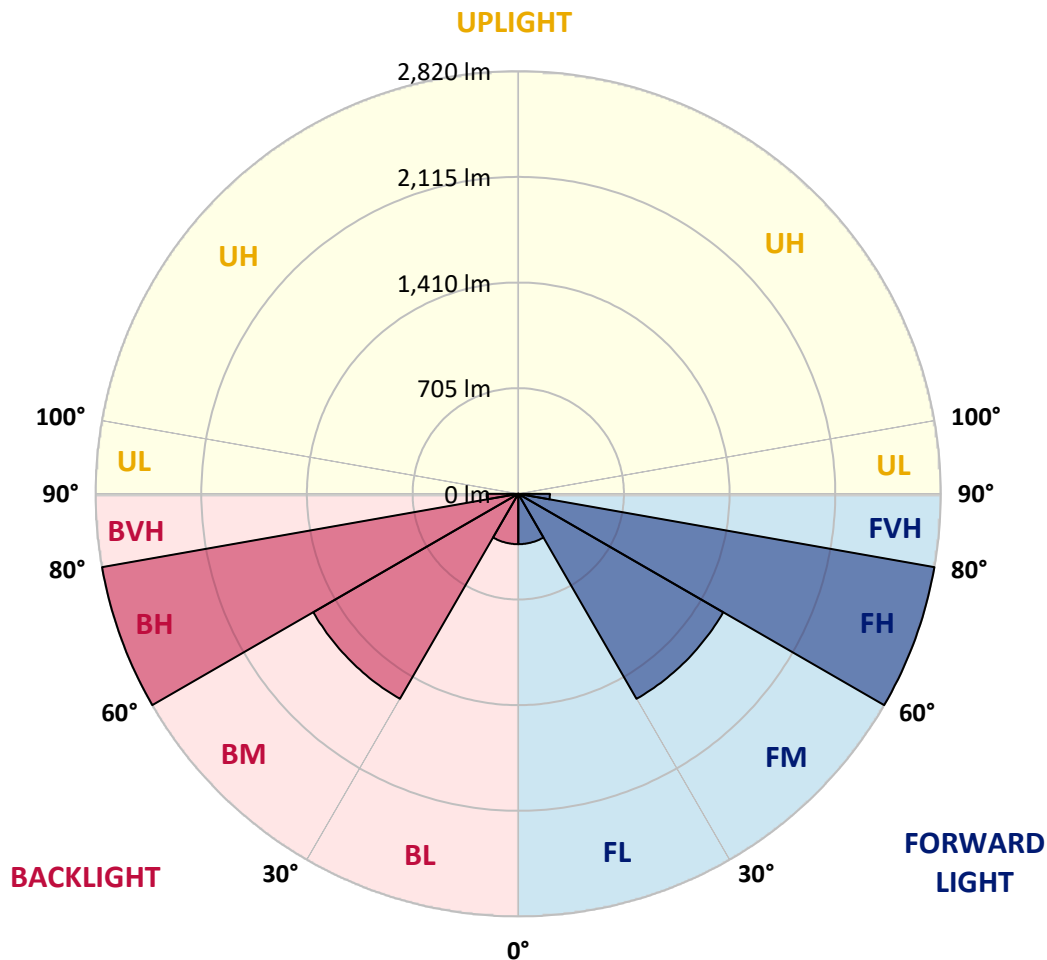


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 336.2  | 3.4       |                         |      |         |
| FM (30°-60°)   | 1579.1 | 16.0      |                         |      |         |
| FH (60°-80°)   | 2819.5 | 28.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 211.2  | 2.1       |                         |      | G2/225  |
| BL (0°-30°)    | 336.2  | 3.4       | B1/500                  |      |         |
| BM (30°-60°)   | 1579.1 | 16.0      | B2/2500                 |      |         |
| BH (60°-80°)   | 2819.5 | 28.5      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 211.2  | 2.1       |                         |      | G2/225  |
| 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 Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 816.1  | 816.1  | 816.1  | 816.1  | 816.1  | 816.1  | 816.1  | 816.1  | 816.1  | 816.1  | 816.1  |
| 2.5°  | 804.3  | 806.7  | 806.7  | 804.3  | 806.7  | 806.7  | 806.7  | 809.0  | 806.7  | 811.4  | 809.0  |
| 5°    | 792.5  | 792.5  | 794.9  | 792.5  | 792.5  | 792.5  | 792.5  | 797.2  | 794.9  | 799.6  | 794.9  |
| 7.5°  | 773.7  | 773.7  | 773.7  | 773.7  | 776.1  | 776.1  | 776.1  | 780.8  | 780.8  | 780.8  | 778.4  |
| 10°   | 769.0  | 766.7  | 766.7  | 762.0  | 762.0  | 762.0  | 759.6  | 766.7  | 769.0  | 773.7  | 771.4  |
| 12.5° | 771.4  | 771.4  | 766.7  | 762.0  | 759.6  | 757.3  | 757.3  | 764.3  | 771.4  | 773.7  | 773.7  |
| 15°   | 780.8  | 780.8  | 773.7  | 764.3  | 764.3  | 764.3  | 762.0  | 764.3  | 776.1  | 780.8  | 776.1  |
| 17.5° | 787.8  | 785.5  | 778.4  | 773.7  | 773.7  | 773.7  | 771.4  | 771.4  | 778.4  | 785.5  | 785.5  |
| 20°   | 799.6  | 799.6  | 790.2  | 785.5  | 785.5  | 783.1  | 780.8  | 778.4  | 785.5  | 794.9  | 792.5  |
| 22.5° | 816.1  | 811.4  | 804.3  | 799.6  | 797.2  | 794.9  | 790.2  | 792.5  | 797.2  | 804.3  | 804.3  |
| 25°   | 827.8  | 827.8  | 820.8  | 818.4  | 820.8  | 820.8  | 813.7  | 809.0  | 811.4  | 818.4  | 818.4  |
| 27.5° | 832.5  | 832.5  | 827.8  | 827.8  | 837.2  | 841.9  | 832.5  | 823.1  | 818.4  | 825.5  | 823.1  |
| 30°   | 851.3  | 851.3  | 846.6  | 844.3  | 851.3  | 853.7  | 849.0  | 841.9  | 839.6  | 846.6  | 844.3  |
| 32.5° | 884.3  | 881.9  | 874.9  | 867.8  | 870.1  | 881.9  | 872.5  | 870.1  | 870.1  | 877.2  | 879.6  |
| 35°   | 921.9  | 917.2  | 910.1  | 903.1  | 905.4  | 917.2  | 907.8  | 907.8  | 910.1  | 919.5  | 919.5  |
| 37.5° | 976.0  | 971.3  | 961.9  | 945.4  | 943.1  | 957.2  | 954.8  | 957.2  | 966.6  | 971.3  | 976.0  |
| 40°   | 1034.8 | 1032.4 | 1020.7 | 1006.6 | 1004.2 | 1013.6 | 1016.0 | 1020.7 | 1030.1 | 1034.8 | 1037.1 |
| 42.5° | 1119.4 | 1114.7 | 1095.9 | 1081.8 | 1079.5 | 1091.2 | 1095.9 | 1100.6 | 1112.4 | 1117.1 | 1121.8 |
| 45°   | 1222.9 | 1220.6 | 1199.4 | 1182.9 | 1175.9 | 1192.3 | 1192.3 | 1197.0 | 1208.8 | 1218.2 | 1218.2 |
| 47.5° | 1335.8 | 1333.4 | 1317.0 | 1298.2 | 1300.5 | 1312.3 | 1309.9 | 1312.3 | 1321.7 | 1331.1 | 1338.1 |
| 50°   | 1462.8 | 1455.7 | 1436.9 | 1432.2 | 1444.0 | 1455.7 | 1446.3 | 1444.0 | 1458.1 | 1462.8 | 1460.4 |
| 52.5° | 1601.5 | 1594.5 | 1585.1 | 1585.1 | 1613.3 | 1634.5 | 1627.4 | 1606.2 | 1606.2 | 1603.9 | 1601.5 |
| 55°   | 1766.2 | 1761.5 | 1759.1 | 1770.9 | 1817.9 | 1860.2 | 1834.4 | 1794.4 | 1777.9 | 1768.5 | 1773.2 |
| 57.5° | 1937.8 | 1926.1 | 1947.3 | 1973.1 | 2067.2 | 2128.3 | 2088.4 | 2013.1 | 1989.6 | 1970.8 | 1961.4 |
| 60°   | 2111.9 | 2107.2 | 2137.7 | 2198.9 | 2332.9 | 2436.4 | 2382.3 | 2257.7 | 2215.4 | 2173.0 | 2173.0 |
| 62.5° | 2281.2 | 2276.5 | 2321.2 | 2415.2 | 2626.9 | 2779.8 | 2681.0 | 2523.4 | 2441.1 | 2377.6 | 2368.2 |
| 65°   | 2485.8 | 2478.7 | 2528.1 | 2629.3 | 2911.5 | 3104.3 | 2979.7 | 2772.7 | 2673.9 | 2586.9 | 2575.2 |
| 67.5° | 2652.8 | 2652.8 | 2718.6 | 2843.3 | 3151.3 | 3353.6 | 3198.4 | 3019.7 | 2904.4 | 2815.0 | 2805.6 |
| 70°   | 2812.7 | 2826.8 | 2876.2 | 2998.5 | 3334.8 | 3518.2 | 3377.1 | 3217.2 | 3113.7 | 3024.4 | 3014.9 |
| 72.5° | 2880.9 | 2899.7 | 2949.1 | 3069.0 | 3414.7 | 3628.8 | 3464.1 | 3280.7 | 3170.2 | 3080.8 | 3069.0 |
| 74°   | 2753.9 | 2775.1 | 2848.0 | 3000.8 | 3391.2 | 3633.5 | 3459.4 | 3217.2 | 3043.2 | 2932.6 | 2932.6 |
| 75°   | 2610.4 | 2638.7 | 2725.7 | 2890.3 | 3341.8 | 3607.6 | 3410.0 | 3116.1 | 2873.8 | 2744.5 | 2751.6 |
| 77.5° | 2013.1 | 2074.2 | 2168.3 | 2427.0 | 2998.5 | 3386.5 | 3031.4 | 2499.9 | 2111.9 | 1919.0 | 1914.3 |
| 80°   | 573.8  | 658.5  | 872.5  | 1448.7 | 2278.8 | 2697.5 | 2227.1 | 1479.3 | 1044.2 | 794.9  | 764.3  |
| 82.5° | 138.8  | 162.3  | 223.4  | 409.2  | 973.6  | 1523.9 | 1103.0 | 484.5  | 291.6  | 190.5  | 152.9  |
| 85°   | 58.8   | 63.5   | 101.1  | 141.1  | 268.1  | 404.5  | 256.3  | 164.6  | 119.9  | 54.1   | 51.7   |
| 87.5° | 21.2   | 23.5   | 37.6   | 37.6   | 56.4   | 32.9   | 58.8   | 40.0   | 42.3   | 14.1   | 14.1   |
| 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)