

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: P400683

Luminaire Tested: **TT-D6-827-U-WQ**

Issue Date: 6/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400683  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1908-473-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TT-D6-827-U-WQ  
Description: TOPTIER LED PARKING GARAGE LUMINAIRE  
2700K, 80 CRI LEDS AND WIDE DISTRIBUTION  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10474 lumens  
Efficiency: N/A  
Efficacy: 99.6 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G3

Input Watts (W): 105.2  
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



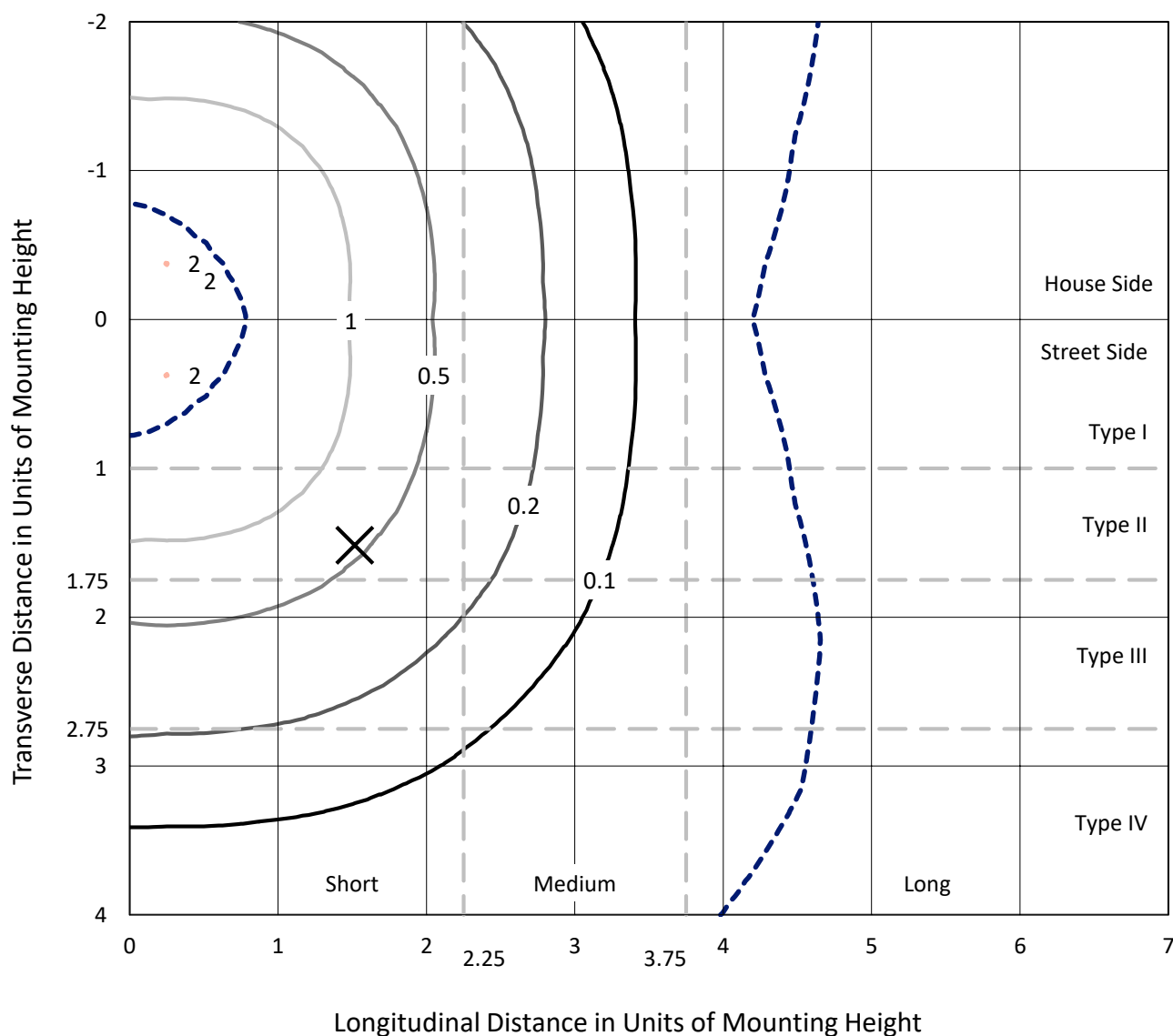
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

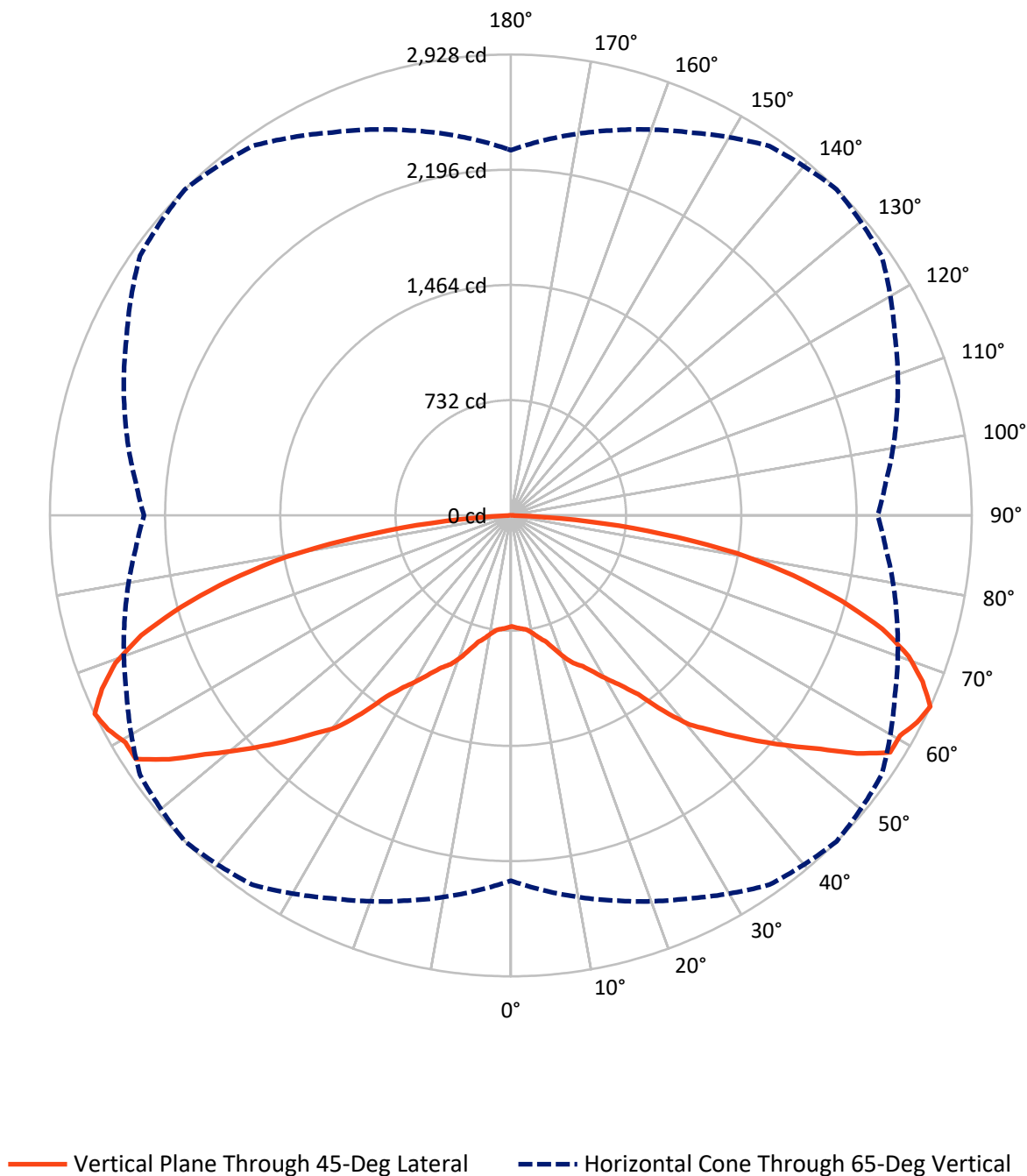


Based on 20 foot mounting height. Maximum calculated value = 2 fc  
 Type V - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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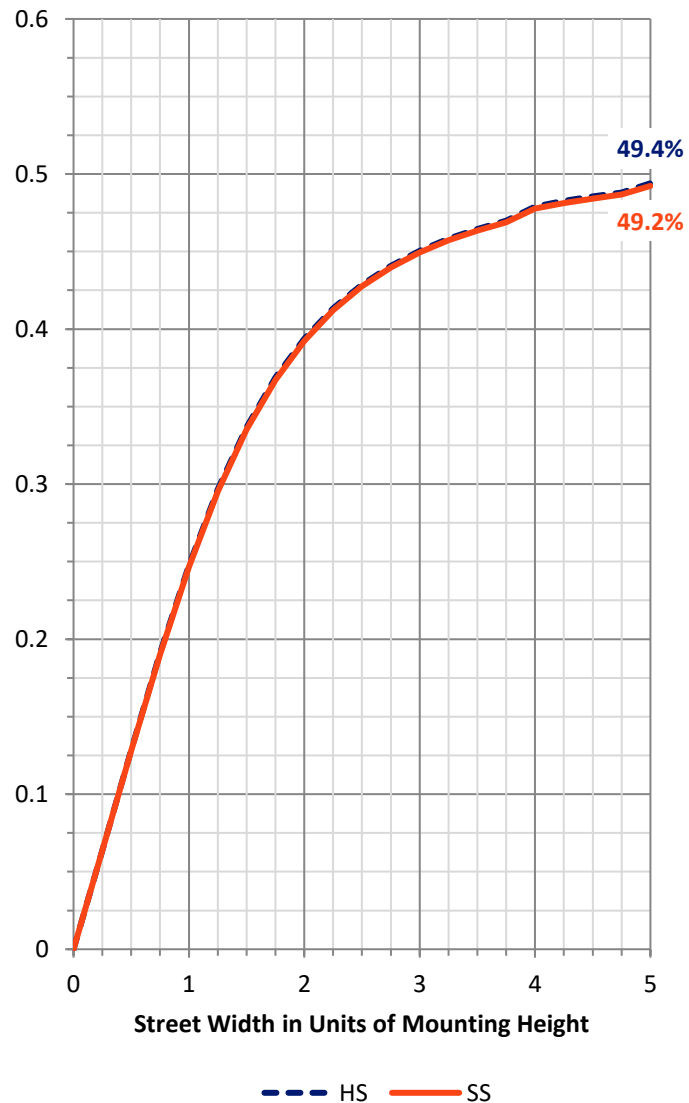
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5237.0   | 0.0    | 5237.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 5237.0   | 0.0    | 5237.0  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 10474.0  | 0.0    | 10474.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 70.3    | 0.7       |
| 10°-20°   | 241.8   | 2.3       |
| 20°-30°   | 496.4   | 4.7       |
| 30°-40°   | 882.0   | 8.4       |
| 40°-50°   | 1486.8  | 14.2      |
| 50°-60°   | 2193.2  | 20.9      |
| 60°-70°   | 2573.9  | 24.6      |
| 70°-80°   | 2005.3  | 19.1      |
| 80°-90°   | 524.3   | 5.0       |
| 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°    | 10474.0 | 100.0     |
| 0°-180°   | 10474.0 | 100.0     |

**Coefficient of Utilization**



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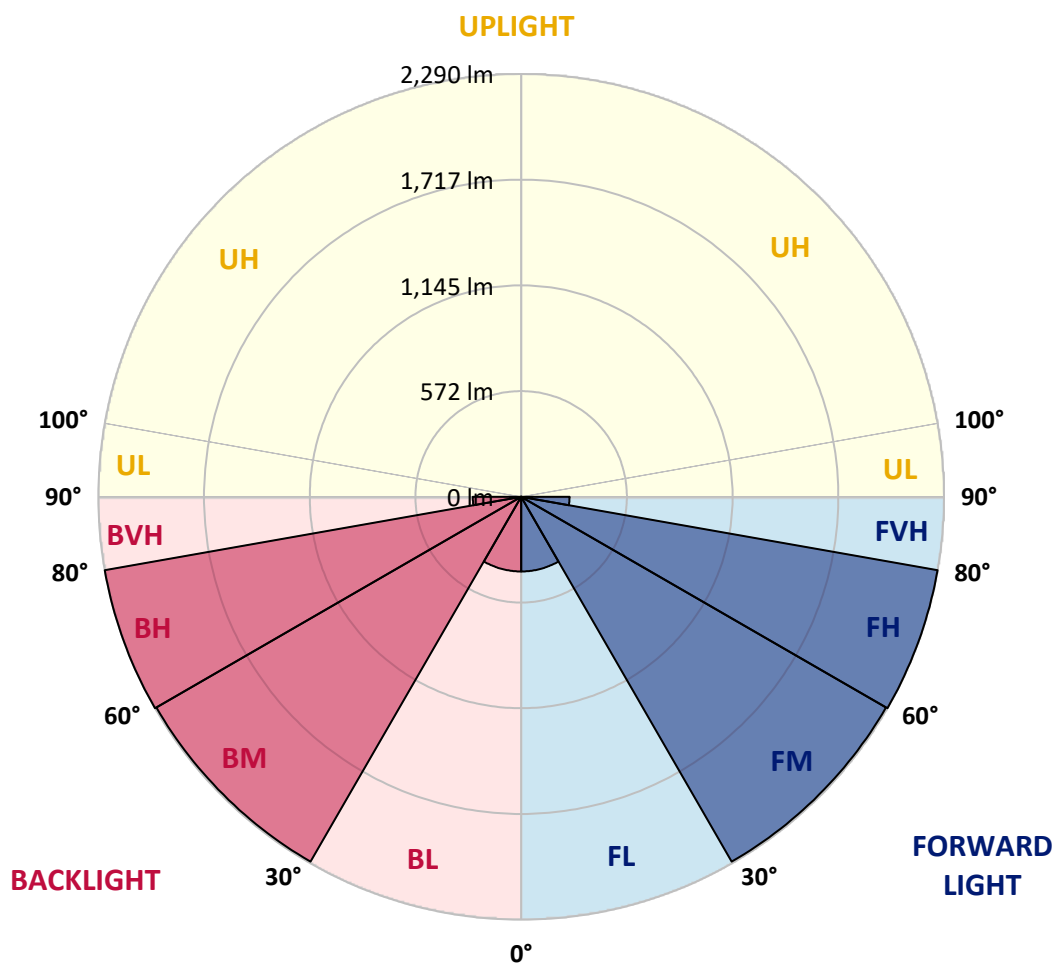
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 404.3  | 3.9       |                         |      |         |
| FM   | (30°-60°)   | 2281.0 | 21.8      |                         |      |         |
| FH   | (60°-80°)   | 2289.6 | 21.9      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 262.1  | 2.5       |                         |      | G3/500  |
| BL   | (0°-30°)    | 404.3  | 3.9       | B1/500                  |      |         |
| BM   | (30°-60°)   | 2281.0 | 21.8      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 2289.6 | 21.9      | B3/2500                 |      | G2/5000 |
| BVH  | (80°-90°)   | 262.1  | 2.5       |                         |      | G3/500  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 704.9  | 704.9  | 704.9  | 704.9  | 704.9  | 704.9  | 704.9  | 704.9  | 704.9  | 704.9  | 704.9  |
| 2.5°  | 716.5  | 716.5  | 716.5  | 714.8  | 714.8  | 714.8  | 714.8  | 716.5  | 716.5  | 716.5  | 716.5  |
| 5°    | 732.9  | 732.9  | 729.6  | 726.3  | 723.1  | 723.1  | 724.7  | 726.3  | 728.0  | 731.3  | 731.3  |
| 7.5°  | 742.8  | 742.8  | 741.2  | 737.9  | 732.9  | 732.9  | 734.6  | 737.9  | 739.5  | 739.5  | 737.9  |
| 10°   | 756.0  | 757.6  | 762.6  | 764.2  | 760.9  | 760.9  | 762.6  | 764.2  | 760.9  | 756.0  | 756.0  |
| 12.5° | 787.3  | 788.9  | 795.5  | 800.5  | 800.5  | 797.2  | 798.8  | 802.1  | 793.9  | 785.6  | 787.3  |
| 15°   | 831.8  | 831.8  | 833.4  | 838.3  | 835.0  | 831.8  | 835.0  | 836.7  | 831.8  | 830.1  | 833.4  |
| 17.5° | 891.0  | 891.0  | 881.2  | 889.4  | 891.0  | 889.4  | 892.7  | 884.5  | 879.5  | 886.1  | 889.4  |
| 20°   | 955.3  | 948.7  | 943.8  | 950.3  | 963.5  | 958.6  | 965.2  | 947.0  | 942.1  | 945.4  | 947.0  |
| 22.5° | 996.5  | 1001.4 | 1004.7 | 1008.0 | 1026.1 | 1019.5 | 1026.1 | 1006.3 | 1003.0 | 996.5  | 991.5  |
| 25°   | 1045.9 | 1050.8 | 1070.6 | 1060.7 | 1072.2 | 1062.3 | 1070.6 | 1059.0 | 1065.6 | 1045.9 | 1045.9 |
| 27.5° | 1101.9 | 1111.8 | 1123.3 | 1118.3 | 1133.2 | 1128.2 | 1133.2 | 1116.7 | 1118.3 | 1110.1 | 1106.8 |
| 30°   | 1177.6 | 1177.6 | 1174.3 | 1184.2 | 1210.6 | 1207.3 | 1208.9 | 1187.5 | 1172.7 | 1174.3 | 1180.9 |
| 32.5° | 1253.4 | 1243.5 | 1248.5 | 1278.1 | 1294.6 | 1288.0 | 1291.3 | 1281.4 | 1248.5 | 1241.9 | 1246.8 |
| 35°   | 1324.2 | 1339.0 | 1350.6 | 1375.3 | 1398.3 | 1395.0 | 1393.4 | 1376.9 | 1355.5 | 1329.2 | 1320.9 |
| 37.5° | 1434.6 | 1451.0 | 1482.3 | 1526.8 | 1568.0 | 1576.2 | 1554.8 | 1533.4 | 1484.0 | 1446.1 | 1426.3 |
| 40°   | 1579.5 | 1581.2 | 1617.4 | 1703.0 | 1740.9 | 1747.5 | 1736.0 | 1699.7 | 1624.0 | 1581.2 | 1579.5 |
| 42.5° | 1706.3 | 1694.8 | 1754.1 | 1826.6 | 1861.2 | 1864.4 | 1856.2 | 1826.6 | 1754.1 | 1693.2 | 1704.7 |
| 45°   | 1805.2 | 1805.2 | 1876.0 | 1933.6 | 1989.6 | 2002.8 | 1988.0 | 1925.4 | 1877.6 | 1806.8 | 1801.9 |
| 47.5° | 1895.7 | 1920.4 | 1979.7 | 2050.6 | 2129.6 | 2147.7 | 2129.6 | 2055.5 | 1974.8 | 1922.1 | 1894.1 |
| 50°   | 2004.4 | 2034.1 | 2076.9 | 2187.3 | 2276.2 | 2300.9 | 2274.6 | 2193.9 | 2076.9 | 2032.4 | 2016.0 |
| 52.5° | 2131.3 | 2156.0 | 2223.5 | 2361.9 | 2427.7 | 2464.0 | 2442.6 | 2365.1 | 2226.8 | 2159.3 | 2146.1 |
| 55°   | 2282.8 | 2259.7 | 2365.1 | 2498.6 | 2620.4 | 2668.2 | 2625.4 | 2501.9 | 2381.6 | 2259.7 | 2282.8 |
| 57.5° | 2360.2 | 2333.9 | 2482.1 | 2608.9 | 2778.6 | 2841.1 | 2788.4 | 2618.8 | 2482.1 | 2342.1 | 2358.6 |
| 60°   | 2366.8 | 2378.3 | 2490.3 | 2697.9 | 2814.8 | 2841.1 | 2824.7 | 2712.7 | 2495.3 | 2388.2 | 2356.9 |
| 62.5° | 2347.0 | 2417.9 | 2513.4 | 2727.5 | 2832.9 | 2897.1 | 2841.1 | 2730.8 | 2523.3 | 2429.4 | 2348.7 |
| 65°   | 2320.7 | 2391.5 | 2533.1 | 2684.7 | 2864.2 | 2928.4 | 2875.7 | 2692.9 | 2539.7 | 2391.5 | 2330.6 |
| 67.5° | 2274.6 | 2249.9 | 2424.4 | 2627.0 | 2783.5 | 2821.4 | 2788.4 | 2630.3 | 2422.8 | 2246.6 | 2279.5 |
| 70°   | 2128.0 | 2106.6 | 2256.4 | 2478.8 | 2628.7 | 2681.4 | 2641.9 | 2482.1 | 2259.7 | 2111.5 | 2131.3 |
| 72.5° | 1910.6 | 1917.2 | 2062.1 | 2274.6 | 2436.0 | 2468.9 | 2447.5 | 2272.9 | 2070.3 | 1925.4 | 1899.0 |
| 75°   | 1656.9 | 1673.4 | 1811.7 | 2004.4 | 2151.0 | 2170.8 | 2149.4 | 2012.7 | 1810.1 | 1683.3 | 1648.7 |
| 77.5° | 1362.1 | 1386.8 | 1498.8 | 1691.5 | 1788.7 | 1833.2 | 1798.6 | 1696.5 | 1507.0 | 1393.4 | 1358.8 |
| 80°   | 1055.8 | 1064.0 | 1143.0 | 1297.9 | 1426.3 | 1456.0 | 1423.0 | 1302.8 | 1152.9 | 1067.3 | 1042.6 |
| 82.5° | 691.8  | 704.9  | 775.8  | 894.3  | 978.3  | 970.1  | 978.3  | 884.5  | 784.0  | 701.6  | 660.5  |
| 85°   | 308.0  | 334.3  | 382.1  | 438.1  | 492.5  | 507.3  | 492.5  | 444.7  | 382.1  | 327.8  | 321.2  |
| 87.5° | 21.4   | 24.7   | 29.6   | 31.3   | 34.6   | 26.4   | 26.4   | 26.4   | 23.1   | 26.4   | 21.4   |
| 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)