

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: P821152

Luminaire Tested: **TT-D3-830-24VDC-MQ**

Issue Date: 2/18/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P821152  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1908-473-16)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/18/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TT-D3-830-24VDC-MQ  
Description: TOPTIER LED PARKING GARAGE LUMINAIRE  
3000K, 80 CRI LEDS AND MEDIUM DISTRIBUTION  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

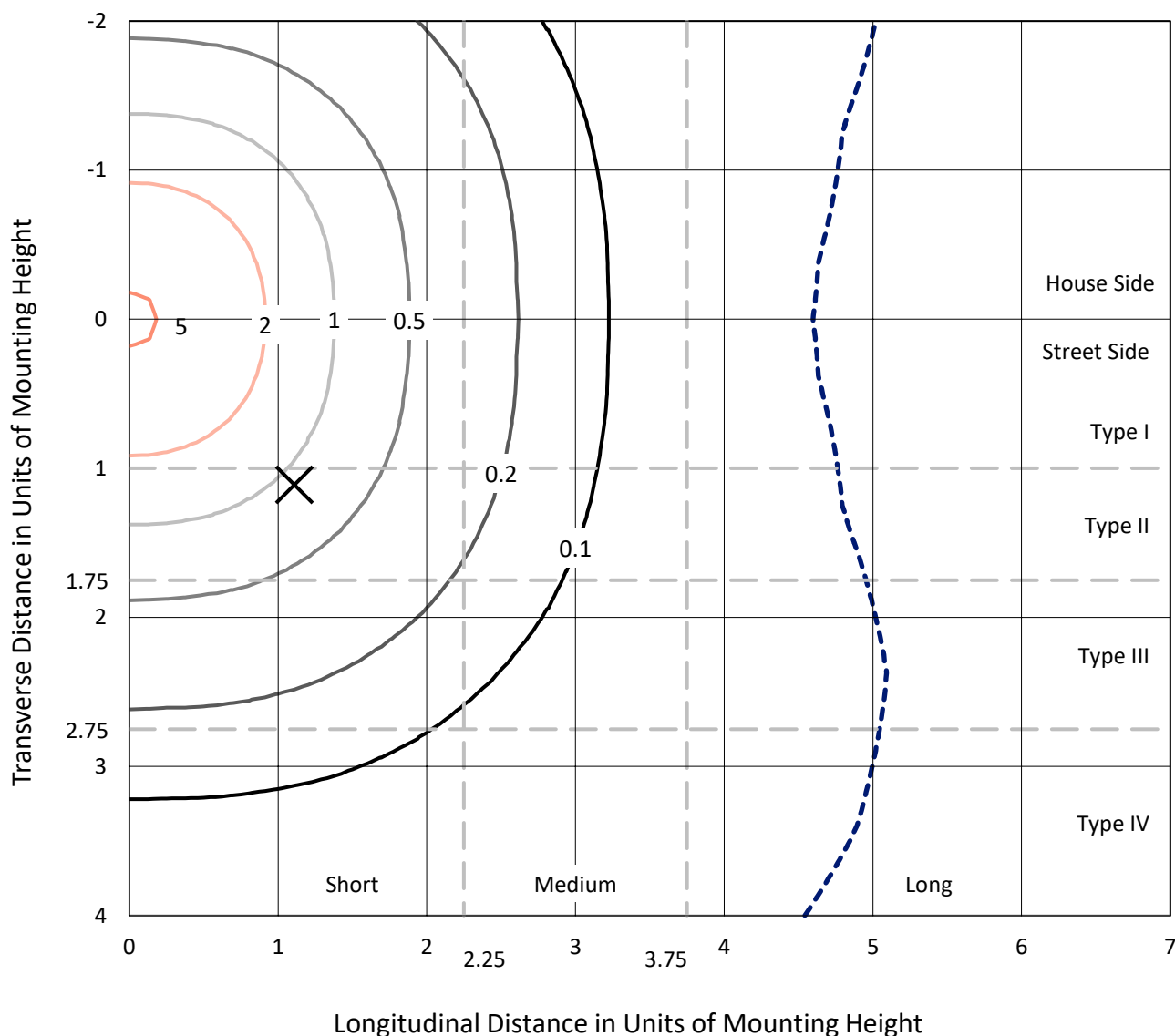
Lumens per Lamp: N/A  
Luminaire Lumens: 5986 lumens  
Efficiency: N/A  
Efficacy: 130.1 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

Input Watts (W): 46  
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: 25 FT

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## Iso-Footcandle Lines of Horizontal Illumination

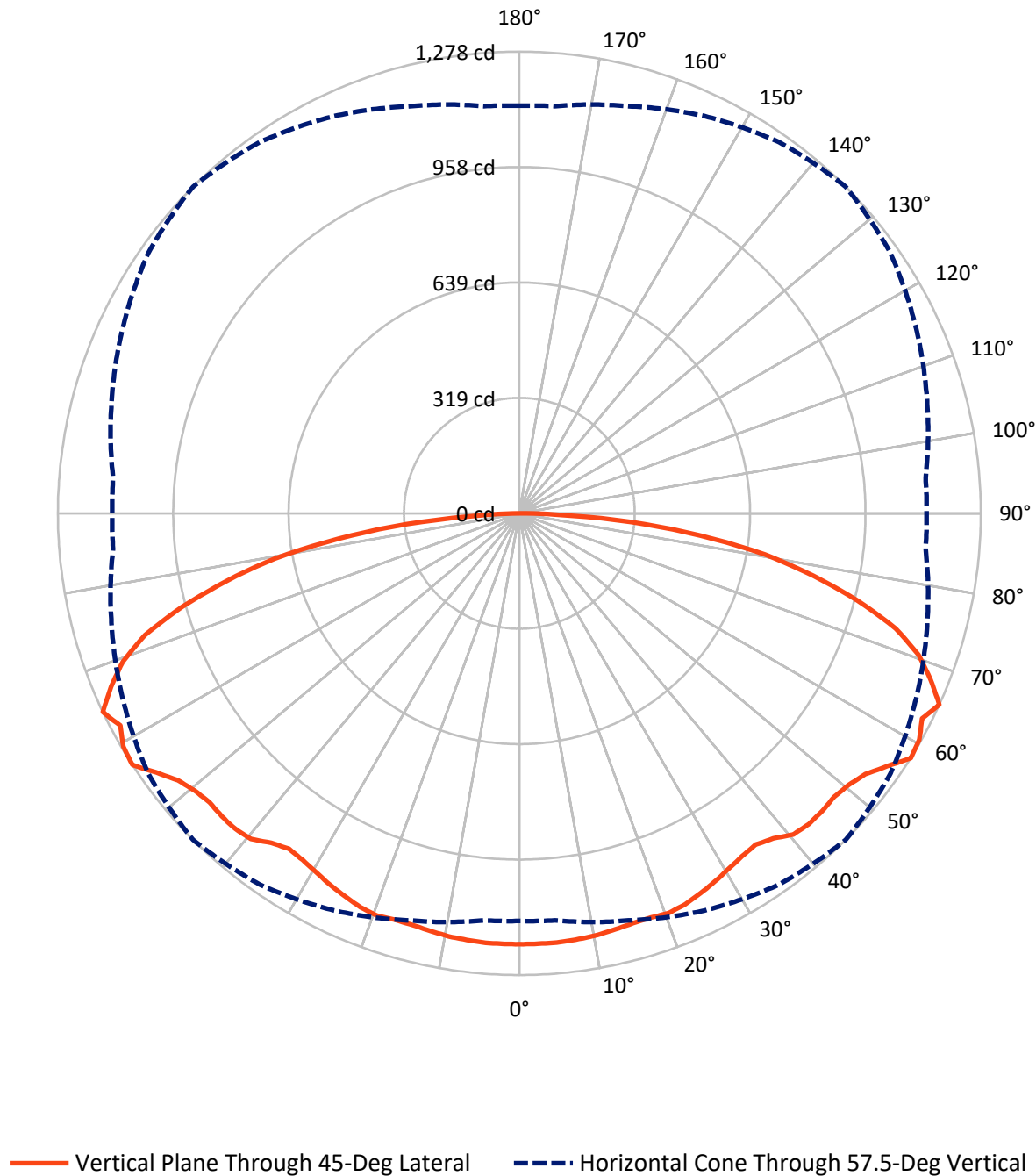
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.3 fc  
 Type V - Short - N/A

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 2993.0   | 0.0    | 2993.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Street Side</b> | Lumens    | 2993.0   | 0.0    | 2993.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0   |
| <b>Total</b>       | Lumens    | 5986.0   | 0.0    | 5986.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 113.6  | 1.9       |
| 10°-20°   | 334.2  | 5.6       |
| 20°-30°   | 536.9  | 9.0       |
| 30°-40°   | 708.9  | 11.8      |
| 40°-50°   | 886.9  | 14.8      |
| 50°-60°   | 1054.8 | 17.6      |
| 60°-70°   | 1144.1 | 19.1      |
| 70°-80°   | 910.6  | 15.2      |
| 80°-90°   | 296.0  | 4.9       |
| 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°    | 5986.0 | 100.0     |
| 0°-180°   | 5986.0 | 100.0     |

**Coefficient of Utilization**



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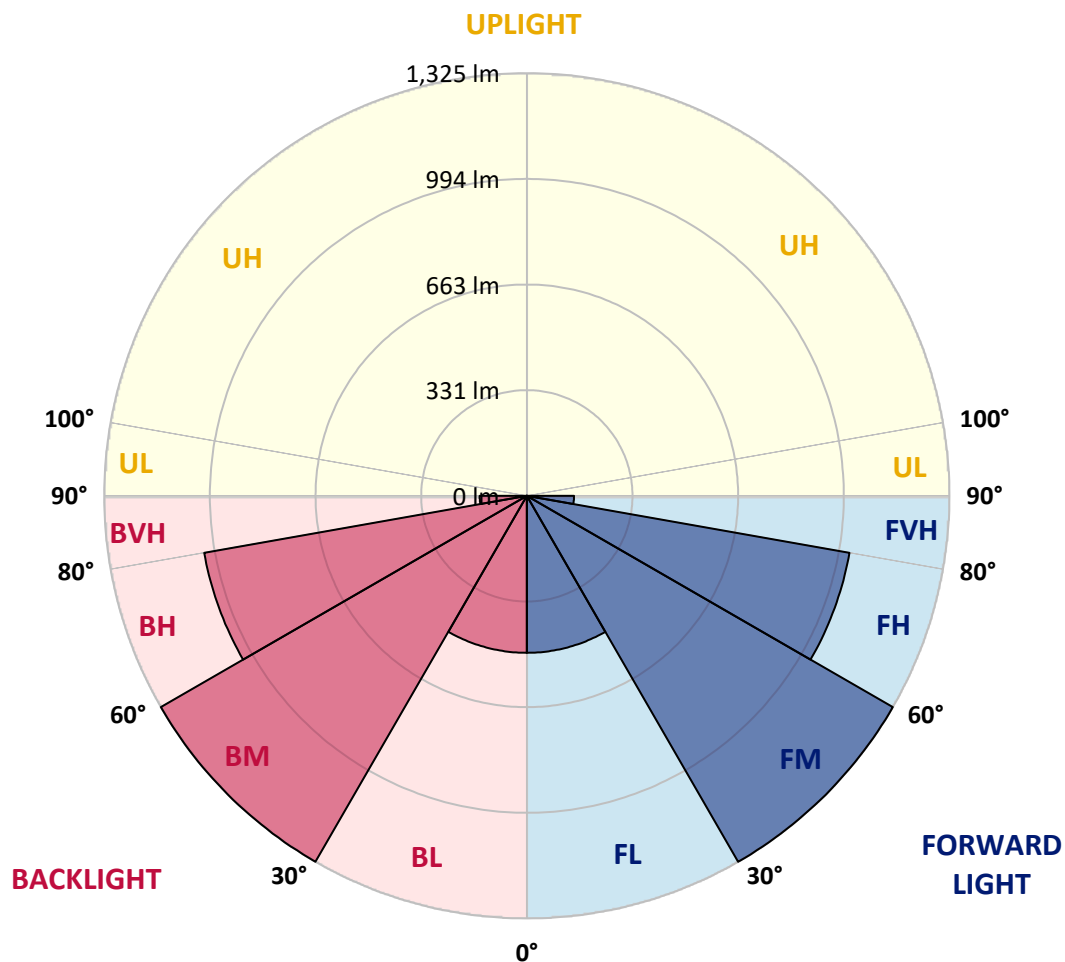
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 492.4  | 8.2       |                         |      |         |
| FM   | (30°-60°)   | 1325.3 | 22.1      |                         |      |         |
| FH   | (60°-80°)   | 1027.4 | 17.2      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 148.0  | 2.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 492.4  | 8.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 1325.3 | 22.1      | B2/2500                 |      |         |
| BH   | (60°-80°)   | 1027.4 | 17.2      | B3/2500                 |      | G1/1800 |
| BVH  | (80°-90°)   | 148.0  | 2.5       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1192.2 | 1192.2 | 1192.2 | 1192.2 | 1192.2 | 1192.2 | 1192.2 | 1192.2 | 1192.2 | 1192.2 | 1192.2 |
| 2.5°  | 1194.0 | 1193.1 | 1194.0 | 1193.1 | 1193.1 | 1192.2 | 1193.1 | 1193.1 | 1193.1 | 1193.1 | 1193.1 |
| 5°    | 1193.1 | 1192.2 | 1192.2 | 1193.1 | 1192.2 | 1192.2 | 1192.2 | 1192.2 | 1192.2 | 1192.2 | 1192.2 |
| 7.5°  | 1189.6 | 1189.6 | 1190.4 | 1189.6 | 1189.6 | 1189.6 | 1189.6 | 1189.6 | 1189.6 | 1190.4 | 1190.4 |
| 10°   | 1186.9 | 1186.0 | 1186.9 | 1186.9 | 1186.0 | 1186.9 | 1186.0 | 1186.9 | 1186.9 | 1186.9 | 1186.9 |
| 12.5° | 1183.3 | 1182.4 | 1183.3 | 1183.3 | 1182.4 | 1181.5 | 1182.4 | 1182.4 | 1183.3 | 1183.3 | 1183.3 |
| 15°   | 1177.1 | 1177.1 | 1178.9 | 1178.0 | 1178.0 | 1177.1 | 1178.9 | 1178.0 | 1177.1 | 1178.0 | 1178.0 |
| 17.5° | 1172.6 | 1172.6 | 1174.4 | 1176.2 | 1176.2 | 1176.2 | 1176.2 | 1175.3 | 1173.5 | 1174.4 | 1172.6 |
| 20°   | 1173.5 | 1174.4 | 1175.3 | 1178.0 | 1179.8 | 1180.7 | 1180.7 | 1178.0 | 1175.3 | 1176.2 | 1175.3 |
| 22.5° | 1170.9 | 1170.0 | 1170.9 | 1172.6 | 1175.3 | 1175.3 | 1175.3 | 1171.7 | 1170.9 | 1170.0 | 1170.0 |
| 25°   | 1160.2 | 1160.2 | 1162.0 | 1163.7 | 1165.5 | 1164.6 | 1165.5 | 1163.7 | 1162.0 | 1160.2 | 1160.2 |
| 27.5° | 1147.7 | 1147.7 | 1150.4 | 1152.2 | 1153.9 | 1153.9 | 1153.0 | 1151.3 | 1150.4 | 1148.6 | 1147.7 |
| 30°   | 1135.2 | 1135.2 | 1137.9 | 1139.7 | 1142.4 | 1141.5 | 1141.5 | 1138.8 | 1136.1 | 1134.4 | 1134.4 |
| 32.5° | 1121.9 | 1121.0 | 1123.7 | 1128.1 | 1131.7 | 1131.7 | 1131.7 | 1126.3 | 1122.8 | 1121.0 | 1120.1 |
| 35°   | 1110.3 | 1110.3 | 1113.9 | 1121.9 | 1126.3 | 1126.3 | 1124.6 | 1121.0 | 1113.0 | 1110.3 | 1110.3 |
| 37.5° | 1106.7 | 1109.4 | 1119.2 | 1130.8 | 1139.7 | 1141.5 | 1138.8 | 1129.0 | 1118.3 | 1110.3 | 1107.6 |
| 40°   | 1118.3 | 1121.0 | 1133.5 | 1152.2 | 1165.5 | 1168.2 | 1165.5 | 1151.3 | 1132.6 | 1120.1 | 1119.2 |
| 42.5° | 1120.1 | 1121.9 | 1137.0 | 1158.4 | 1170.9 | 1175.3 | 1170.9 | 1156.6 | 1136.1 | 1121.0 | 1120.1 |
| 45°   | 1113.9 | 1114.8 | 1132.6 | 1154.8 | 1170.0 | 1175.3 | 1170.0 | 1153.0 | 1131.7 | 1114.8 | 1113.9 |
| 47.5° | 1105.9 | 1107.6 | 1127.2 | 1150.4 | 1169.1 | 1172.6 | 1168.2 | 1149.5 | 1125.4 | 1108.5 | 1105.9 |
| 50°   | 1099.6 | 1105.0 | 1122.8 | 1148.6 | 1170.9 | 1181.5 | 1170.9 | 1145.9 | 1121.9 | 1103.2 | 1099.6 |
| 52.5° | 1103.2 | 1105.0 | 1128.1 | 1164.6 | 1194.9 | 1199.3 | 1194.0 | 1164.6 | 1126.3 | 1105.0 | 1102.3 |
| 55°   | 1113.9 | 1121.9 | 1146.8 | 1199.3 | 1227.0 | 1235.0 | 1223.4 | 1197.6 | 1147.7 | 1121.9 | 1113.9 |
| 57.5° | 1128.1 | 1130.8 | 1166.4 | 1212.7 | 1253.7 | 1277.7 | 1254.6 | 1211.8 | 1169.1 | 1129.0 | 1127.2 |
| 60°   | 1116.5 | 1108.5 | 1153.0 | 1207.4 | 1262.6 | 1272.4 | 1259.0 | 1208.3 | 1151.3 | 1107.6 | 1115.7 |
| 62.5° | 1085.4 | 1090.7 | 1127.2 | 1202.0 | 1240.3 | 1251.0 | 1236.7 | 1202.0 | 1125.4 | 1095.2 | 1082.7 |
| 65°   | 1060.4 | 1092.5 | 1132.6 | 1186.0 | 1247.4 | 1277.7 | 1248.3 | 1184.2 | 1134.4 | 1087.2 | 1057.8 |
| 67.5° | 1025.7 | 1032.0 | 1091.6 | 1157.5 | 1212.7 | 1227.8 | 1211.8 | 1158.4 | 1086.3 | 1027.5 | 1032.0 |
| 70°   | 967.0  | 958.1  | 1018.6 | 1095.2 | 1147.7 | 1171.7 | 1149.5 | 1091.6 | 1015.9 | 956.3  | 964.3  |
| 72.5° | 869.9  | 875.2  | 931.3  | 1012.4 | 1066.7 | 1089.8 | 1067.6 | 1006.1 | 929.6  | 880.6  | 875.2  |
| 75°   | 768.4  | 774.6  | 828.9  | 902.9  | 958.1  | 967.8  | 961.6  | 898.4  | 830.7  | 773.7  | 768.4  |
| 77.5° | 652.7  | 658.9  | 703.4  | 784.4  | 817.4  | 832.5  | 819.2  | 788.9  | 701.6  | 658.0  | 650.9  |
| 80°   | 524.4  | 522.7  | 561.8  | 631.3  | 672.2  | 689.2  | 672.2  | 633.1  | 560.1  | 526.2  | 514.6  |
| 82.5° | 374.9  | 376.6  | 413.1  | 461.2  | 500.4  | 505.7  | 497.7  | 465.7  | 409.6  | 381.1  | 365.1  |
| 85°   | 208.4  | 216.4  | 243.1  | 278.7  | 304.5  | 313.4  | 300.1  | 269.8  | 242.2  | 219.9  | 212.8  |
| 87.5° | 49.9   | 54.3   | 63.2   | 80.1   | 89.9   | 98.8   | 89.9   | 83.7   | 59.7   | 54.3   | 49.9   |
| 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)