

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: P198028

Luminaire Tested: **TT-C4-LED-E1-RW-PM-CG-LWR-LW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34697)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C4-LED-E1-RW-PM-CG-LWR-LW-7060
Description: TOPTIER LED AREA/SITE LUMINAIRE
RECTANGULAR DISTRIBUTION WITH CLEAR GLASS LENS AND LumaWatt WIRELESS
SENSOR
Light Source: (160) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4974.1 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 58
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

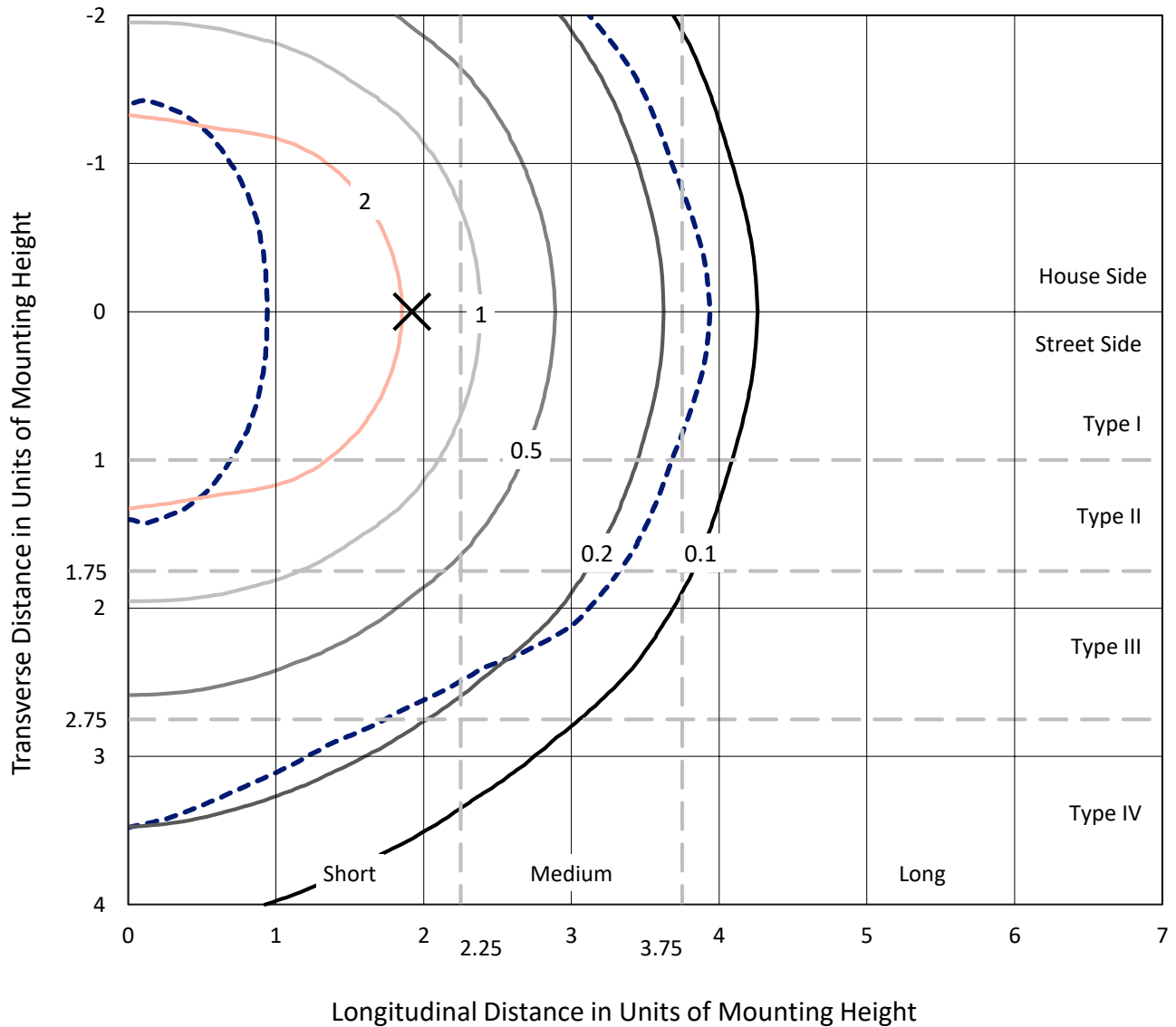


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

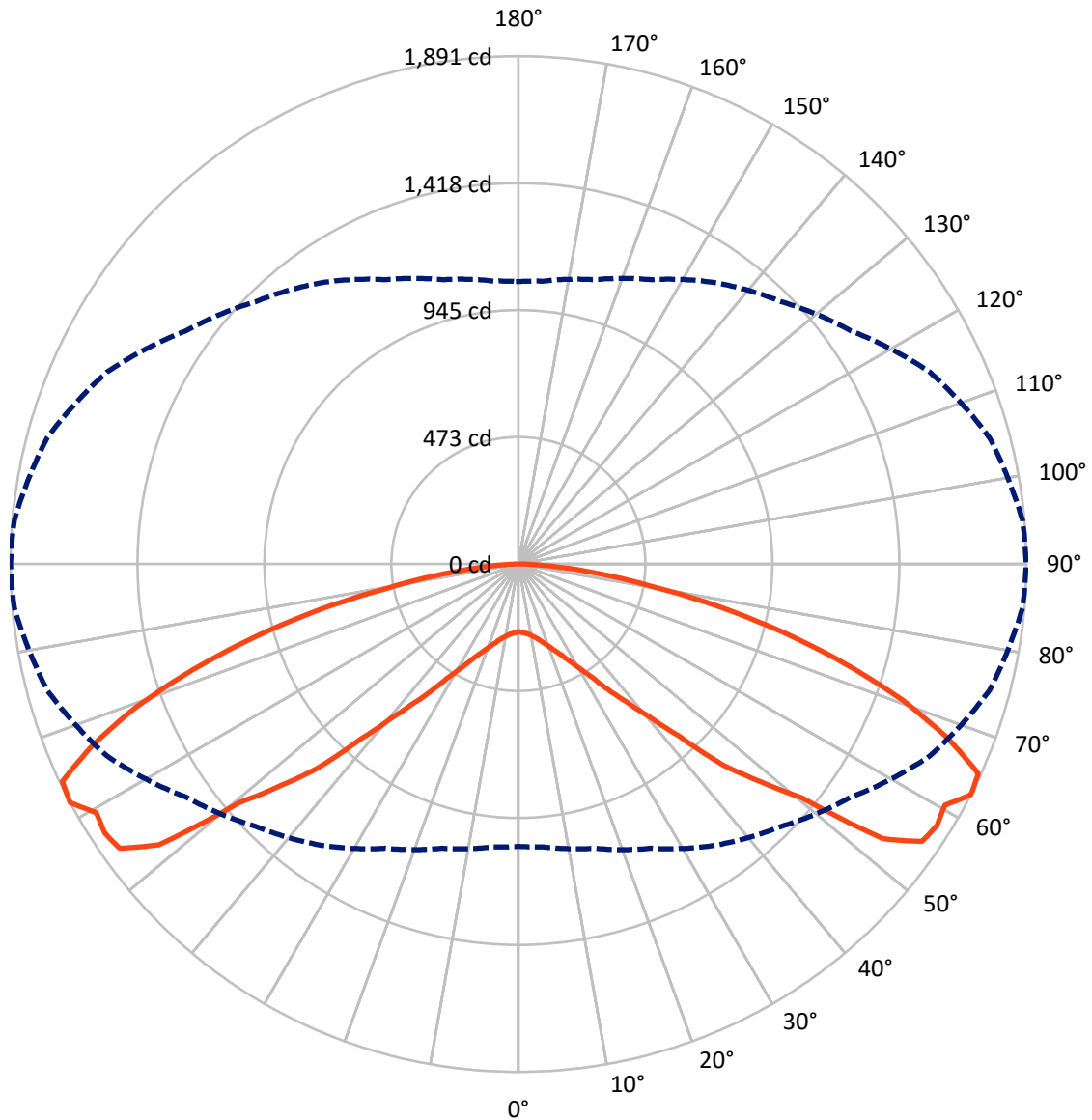


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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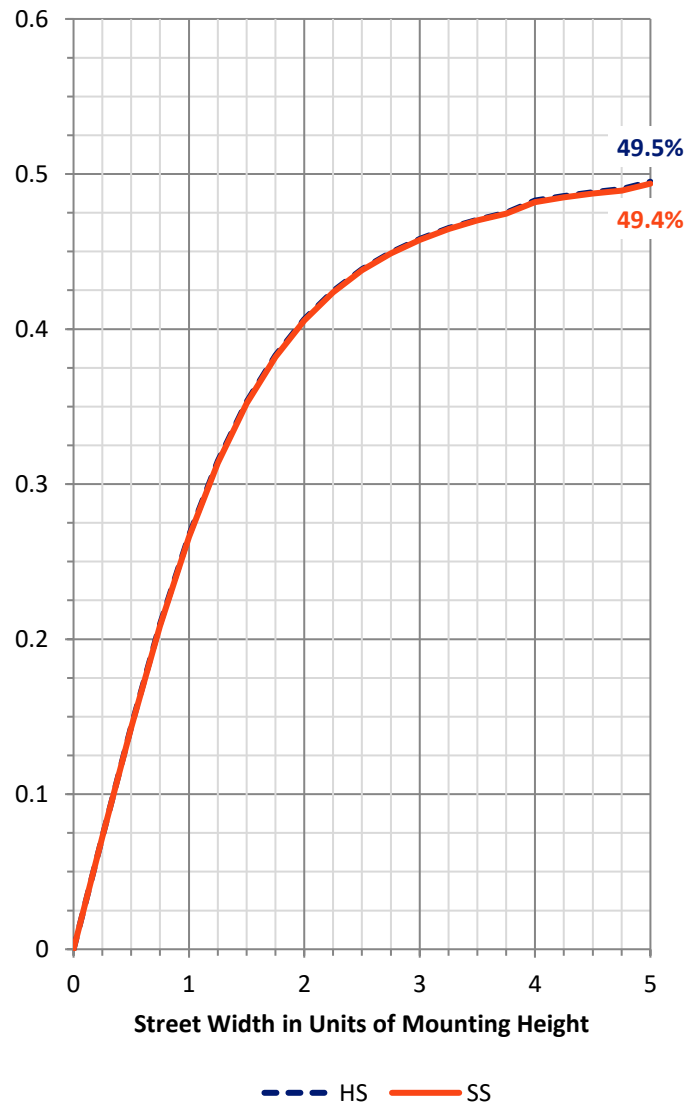
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2487.1 | 0.0 | 2487.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2487.1 | 0.0 | 2487.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 4974.1 | 0.0 | 4974.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 25.1 | 0.5 |
| 10°-20° | 85.6 | 1.7 |
| 20°-30° | 182.9 | 3.7 |
| 30°-40° | 355.7 | 7.2 |
| 40°-50° | 670.8 | 13.5 |
| 50°-60° | 1146.2 | 23.0 |
| 60°-70° | 1380.3 | 27.7 |
| 70°-80° | 928.9 | 18.7 |
| 80°-90° | 198.7 | 4.0 |
| 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° | 4974.1 | 100.0 |
| 0°-180° | 4974.1 | 100.0 |



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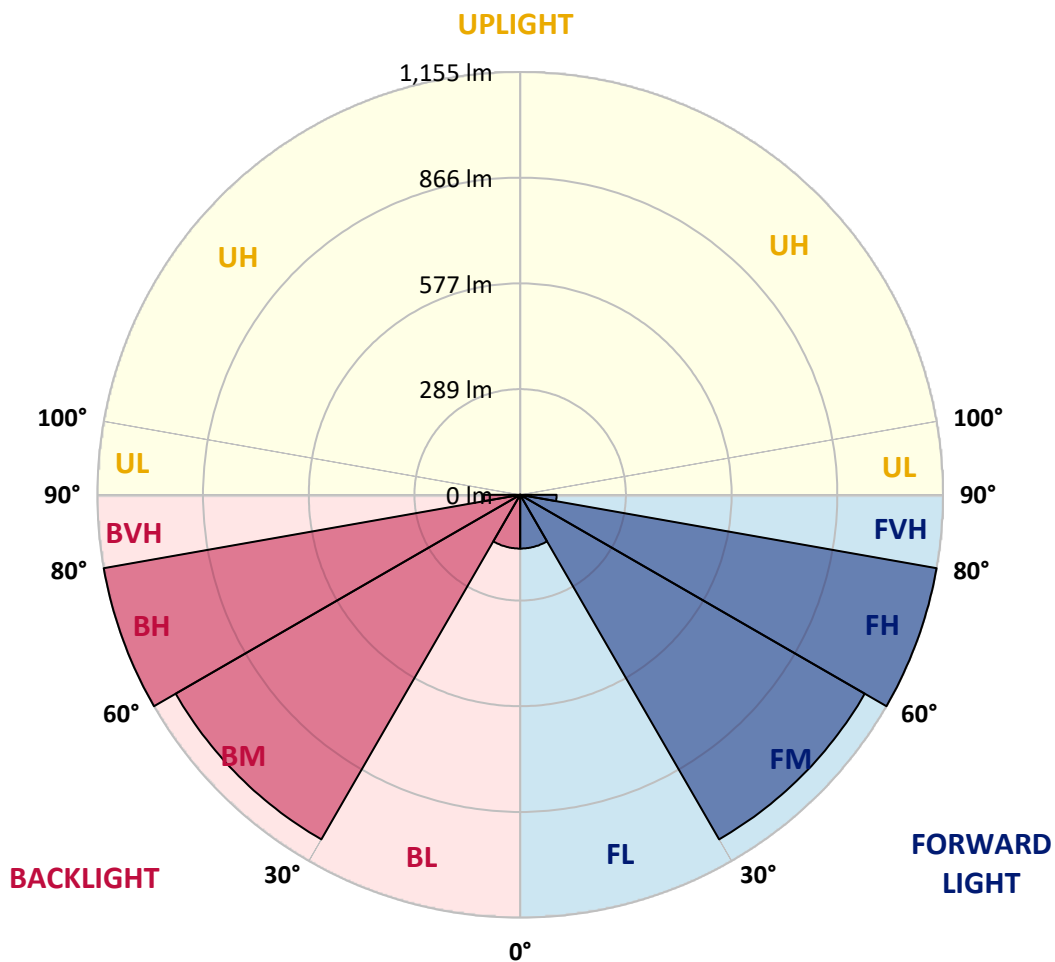
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 146.8 | 3.0 | | | |
| FM | (30°-60°) | 1086.3 | 21.8 | | | |
| FH | (60°-80°) | 1154.6 | 23.2 | | | G1/1800 |
| FVH | (80°-90°) | 99.3 | 2.0 | | | G1/100 |
| BL | (0°-30°) | 146.8 | 3.0 | B1/500 | | |
| BM | (30°-60°) | 1086.3 | 21.8 | B2/2500 | | |
| BH | (60°-80°) | 1154.6 | 23.2 | B3/2500 | | G3/2500 |
| BVH | (80°-90°) | 99.3 | 2.0 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 251.5 | 251.5 | 251.5 | 251.5 | 251.5 | 251.5 | 251.5 | 251.5 | 251.5 | 251.5 | 251.5 |
| 2.5° | 253.8 | 253.8 | 253.8 | 253.8 | 253.8 | 253.8 | 255.0 | 255.0 | 255.0 | 255.0 | 255.0 |
| 5° | 257.3 | 257.3 | 258.5 | 258.5 | 259.6 | 259.6 | 259.6 | 259.6 | 258.5 | 258.5 | 258.5 |
| 7.5° | 263.1 | 263.1 | 264.3 | 265.5 | 265.5 | 264.3 | 264.3 | 263.1 | 263.1 | 263.1 | 263.1 |
| 10° | 272.5 | 272.5 | 273.6 | 273.6 | 272.5 | 272.5 | 272.5 | 271.3 | 271.3 | 271.3 | 271.3 |
| 12.5° | 282.9 | 284.1 | 285.3 | 284.1 | 282.9 | 281.8 | 281.8 | 280.6 | 280.6 | 280.6 | 280.6 |
| 15° | 298.1 | 300.4 | 299.2 | 299.2 | 298.1 | 295.7 | 294.6 | 293.4 | 293.4 | 293.4 | 293.4 |
| 17.5° | 321.4 | 321.4 | 317.9 | 315.5 | 313.2 | 312.0 | 310.9 | 309.7 | 309.7 | 309.7 | 309.7 |
| 20° | 345.8 | 344.6 | 341.2 | 337.7 | 334.2 | 333.0 | 329.5 | 328.3 | 329.5 | 328.3 | 328.3 |
| 22.5° | 374.9 | 373.8 | 369.1 | 365.6 | 360.9 | 356.3 | 355.1 | 351.6 | 350.5 | 349.3 | 350.5 |
| 25° | 404.0 | 405.2 | 401.7 | 398.2 | 391.2 | 386.6 | 381.9 | 379.6 | 377.2 | 376.1 | 376.1 |
| 27.5° | 437.8 | 440.1 | 437.8 | 430.8 | 423.8 | 420.3 | 413.3 | 411.0 | 409.9 | 411.0 | 411.0 |
| 30° | 473.9 | 475.1 | 471.6 | 468.1 | 461.1 | 452.9 | 448.3 | 449.4 | 449.4 | 452.9 | 451.8 |
| 32.5° | 518.1 | 517.0 | 512.3 | 510.0 | 503.0 | 496.0 | 493.7 | 494.8 | 499.5 | 501.8 | 501.8 |
| 35° | 567.0 | 563.5 | 558.9 | 554.2 | 548.4 | 543.7 | 544.9 | 554.2 | 568.2 | 571.7 | 574.0 |
| 37.5° | 615.9 | 610.1 | 610.1 | 603.1 | 598.5 | 602.0 | 609.0 | 626.4 | 636.9 | 653.2 | 649.7 |
| 40° | 661.3 | 662.5 | 660.2 | 654.4 | 653.2 | 664.8 | 680.0 | 702.1 | 728.9 | 745.2 | 744.0 |
| 42.5° | 703.3 | 713.7 | 706.8 | 707.9 | 713.7 | 732.4 | 756.8 | 799.9 | 853.5 | 874.4 | 874.4 |
| 45° | 749.8 | 762.6 | 756.8 | 760.3 | 776.6 | 805.7 | 858.1 | 943.1 | 1016.5 | 1066.5 | 1066.5 |
| 47.5° | 797.6 | 809.2 | 806.9 | 813.9 | 843.0 | 894.2 | 974.6 | 1080.5 | 1153.9 | 1202.8 | 1209.8 |
| 50° | 858.1 | 853.5 | 854.6 | 872.1 | 922.2 | 996.7 | 1099.1 | 1203.9 | 1325.0 | 1354.1 | 1368.1 |
| 52.5° | 910.5 | 896.5 | 904.7 | 933.8 | 1006.0 | 1093.3 | 1220.2 | 1405.4 | 1573.0 | 1689.5 | 1698.8 |
| 55° | 953.6 | 943.1 | 959.4 | 1000.2 | 1093.3 | 1208.6 | 1373.9 | 1601.0 | 1739.5 | 1810.6 | 1823.4 |
| 57.5° | 990.9 | 986.2 | 1013.0 | 1065.4 | 1184.1 | 1325.0 | 1492.7 | 1676.7 | 1773.3 | 1828.0 | 1837.3 |
| 60° | 1024.6 | 1028.1 | 1057.2 | 1127.1 | 1255.2 | 1384.4 | 1519.5 | 1674.3 | 1771.0 | 1814.1 | 1823.4 |
| 62.5° | 1051.4 | 1057.2 | 1095.7 | 1167.8 | 1278.5 | 1382.1 | 1512.5 | 1690.6 | 1816.4 | 1883.9 | 1890.9 |
| 65° | 1068.9 | 1074.7 | 1117.8 | 1167.8 | 1271.5 | 1371.6 | 1555.6 | 1706.9 | 1800.1 | 1868.8 | 1881.6 |
| 67.5° | 1071.2 | 1079.3 | 1105.0 | 1146.9 | 1234.2 | 1322.7 | 1481.0 | 1590.5 | 1665.0 | 1706.9 | 1718.6 |
| 70° | 1057.2 | 1054.9 | 1064.2 | 1081.7 | 1134.1 | 1194.6 | 1328.5 | 1410.0 | 1463.6 | 1506.7 | 1517.1 |
| 72.5° | 1003.7 | 1000.2 | 978.1 | 958.3 | 978.1 | 1025.8 | 1141.1 | 1195.8 | 1231.9 | 1266.8 | 1273.8 |
| 75° | 901.2 | 884.9 | 830.2 | 802.2 | 796.4 | 838.3 | 926.8 | 961.8 | 975.7 | 1015.3 | 1020.0 |
| 77.5° | 720.7 | 713.7 | 667.2 | 618.3 | 613.6 | 639.2 | 706.8 | 721.9 | 710.3 | 753.3 | 766.1 |
| 80° | 526.3 | 517.0 | 472.7 | 436.6 | 427.3 | 444.8 | 484.4 | 487.9 | 479.7 | 500.7 | 500.7 |
| 82.5° | 336.5 | 327.2 | 308.6 | 281.8 | 262.0 | 272.5 | 302.7 | 302.7 | 302.7 | 308.6 | 312.0 |
| 85° | 173.5 | 170.0 | 156.0 | 143.2 | 136.2 | 138.6 | 149.0 | 150.2 | 156.0 | 159.5 | 154.9 |
| 87.5° | 48.9 | 51.2 | 48.9 | 43.1 | 41.9 | 40.8 | 45.4 | 46.6 | 50.1 | 52.4 | 54.7 |
| 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)