

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: STREETWORKS

Report Number: P140381

Luminaire Tested: **MEM-E01-LED-E-U-5MQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P140381
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33686)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MEM-E01-LED-E-U-5MQ-7050
Description: EPIC MODERN MEDIUM DECORATIVE LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3133.5 lumens
Efficiency: N/A
Efficacy: 126.9 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 24.7
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

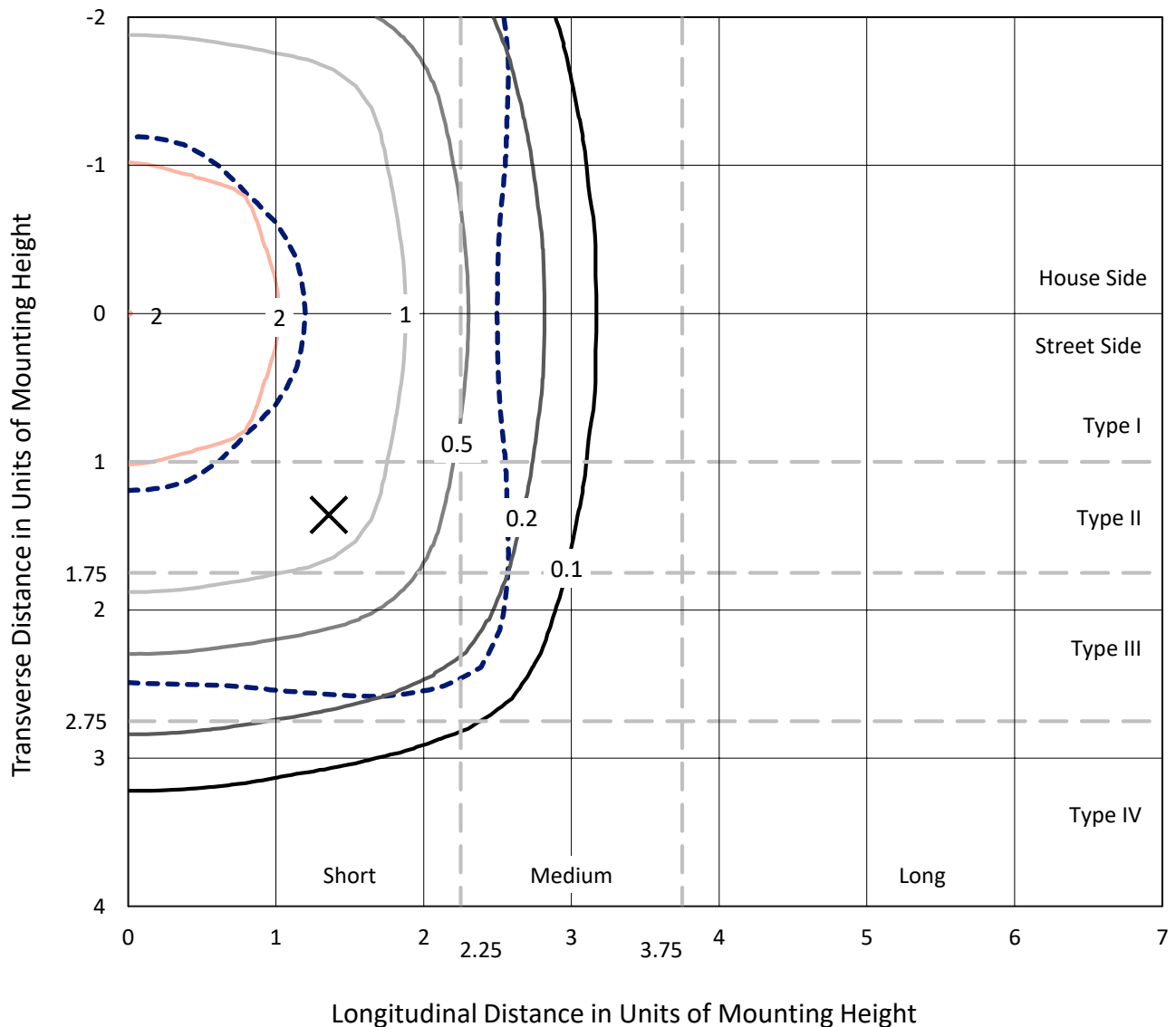


REPORT NUMBER: P140381

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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

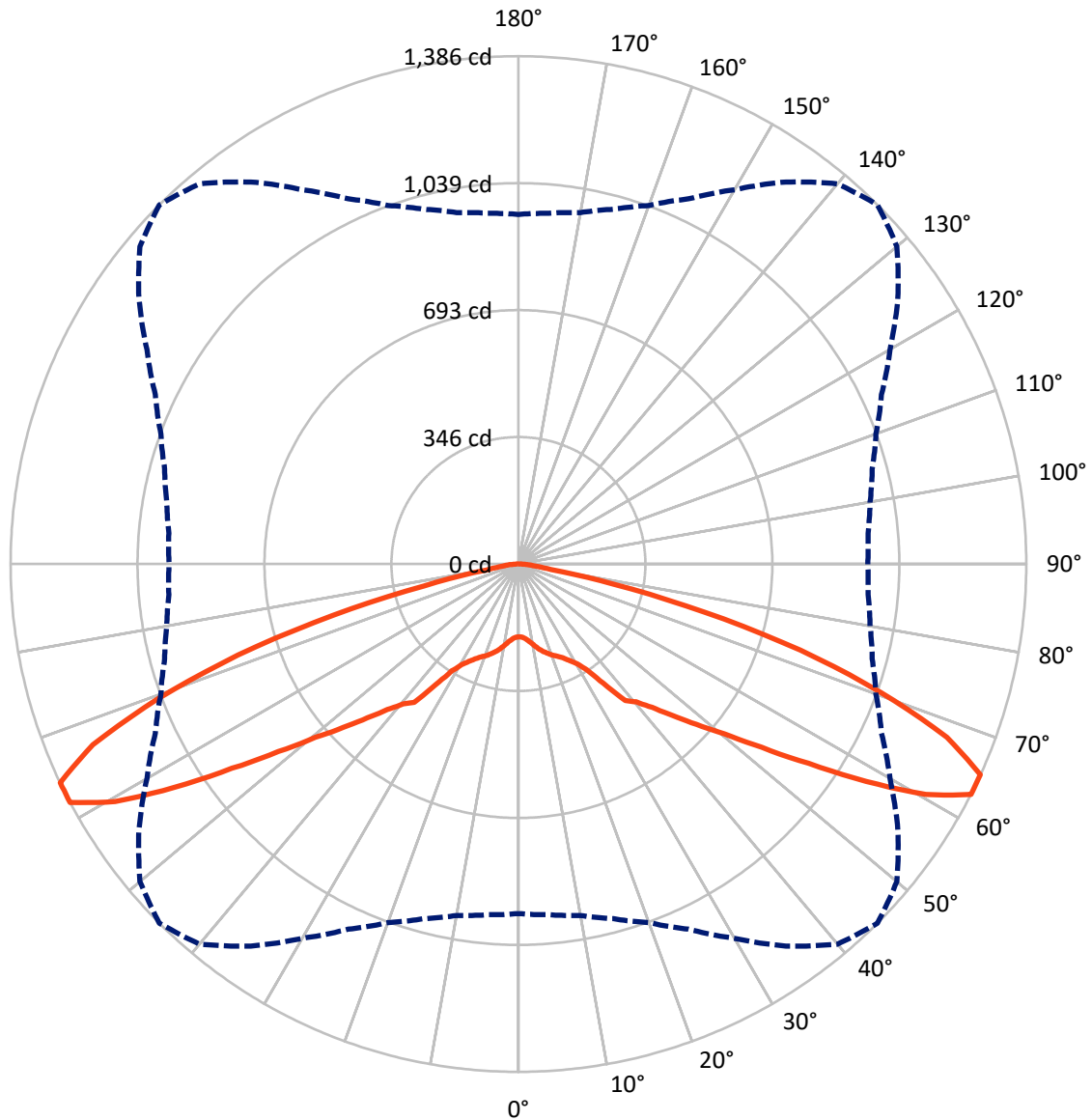


Based on 10 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P140381

CATALOG NUMBER: MEM-E01-LED-E-U-5MQ-7050

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P140381

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1566.8 | 0.0 | 1566.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1566.8 | 0.0 | 1566.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3133.5 | 0.0 | 3133.5 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 20.2 | 0.6 |
| 10°-20° | 70.4 | 2.2 |
| 20°-30° | 135.3 | 4.3 |
| 30°-40° | 260.2 | 8.3 |
| 40°-50° | 452.8 | 14.5 |
| 50°-60° | 813.4 | 26.0 |
| 60°-70° | 997.1 | 31.8 |
| 70°-80° | 351.6 | 11.2 |
| 80°-90° | 32.5 | 1.0 |
| 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° | 3133.5 | 100.0 |
| 0°-180° | 3133.5 | 100.0 |



REPORT NUMBER: P140381

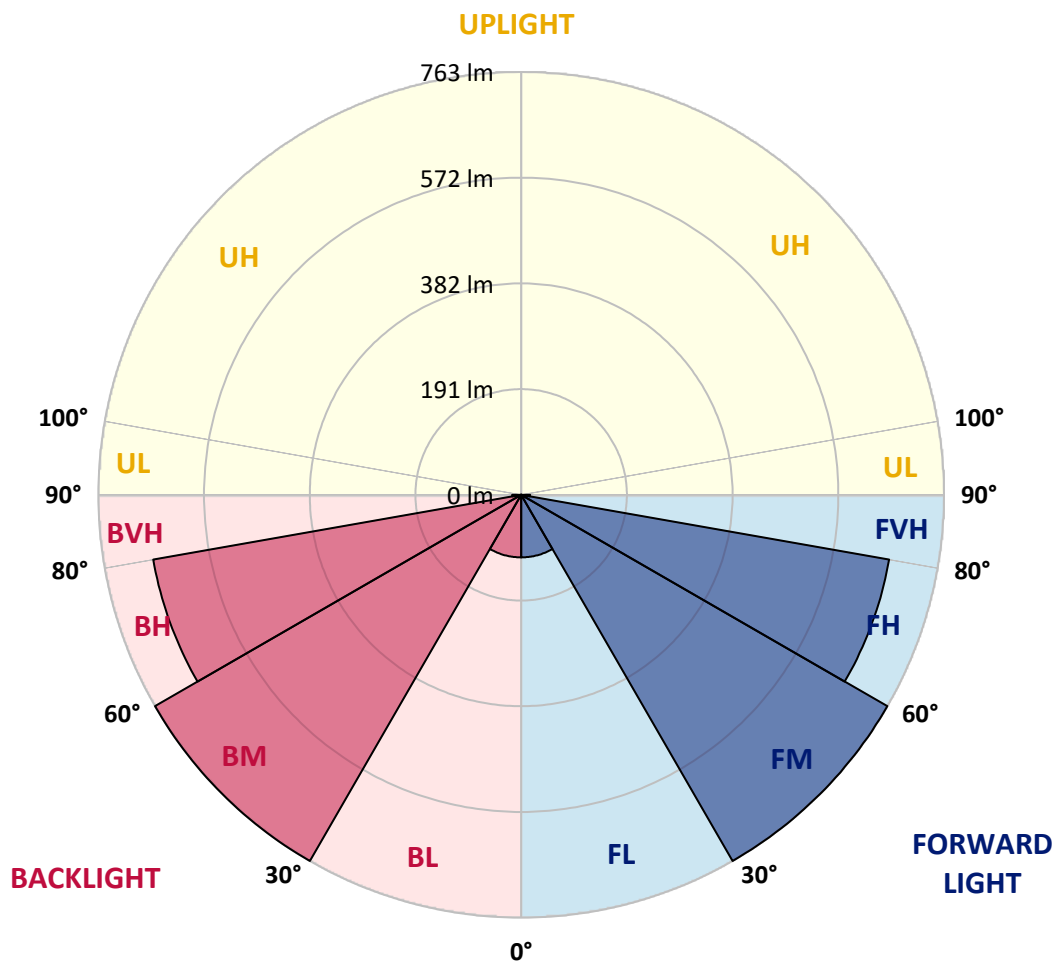
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 112.9 | 3.6 | | | |
| FM (30°-60°) | 763.2 | 24.4 | | | |
| FH (60°-80°) | 674.4 | 21.5 | | | G1/1800 |
| FVH (80°-90°) | 16.3 | 0.5 | | | G1/100 |
| BL (0°-30°) | 112.9 | 3.6 | B1/500 | | |
| BM (30°-60°) | 763.2 | 24.4 | B1/1000 | | |
| BH (60°-80°) | 674.4 | 21.5 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 16.3 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G1

Type V Short





REPORT NUMBER: P140381

CATALOG NUMBER: MEM-E01-LED-E-U-5MQ-7050

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 198.7 | 198.7 | 198.7 | 198.7 | 198.7 | 198.7 | 198.7 | 198.7 | 198.7 | 198.7 | 198.7 |
| 2.5° | 201.1 | 201.1 | 200.8 | 200.4 | 200.4 | 200.4 | 200.1 | 200.1 | 200.4 | 199.7 | 199.7 |
| 5° | 206.2 | 206.6 | 206.2 | 205.9 | 205.6 | 205.6 | 205.2 | 205.2 | 205.6 | 204.9 | 204.5 |
| 7.5° | 215.8 | 216.2 | 215.5 | 215.1 | 214.8 | 214.5 | 214.1 | 213.8 | 214.1 | 213.1 | 213.1 |
| 10° | 228.1 | 228.1 | 228.1 | 226.8 | 226.8 | 225.7 | 225.4 | 224.7 | 225.1 | 224.0 | 224.0 |
| 12.5° | 240.5 | 240.5 | 240.1 | 239.4 | 239.1 | 238.4 | 237.7 | 237.7 | 237.0 | 235.7 | 235.0 |
| 15° | 251.4 | 251.7 | 251.4 | 250.4 | 250.0 | 249.0 | 249.0 | 248.3 | 247.3 | 246.6 | 245.9 |
| 17.5° | 261.7 | 262.0 | 261.0 | 260.6 | 259.6 | 258.9 | 258.2 | 257.9 | 257.2 | 256.2 | 255.8 |
| 20° | 271.6 | 271.2 | 270.2 | 268.8 | 268.2 | 267.5 | 266.8 | 266.4 | 266.1 | 265.4 | 265.4 |
| 22.5° | 281.2 | 281.2 | 280.1 | 278.1 | 276.7 | 276.0 | 275.0 | 274.3 | 273.6 | 273.3 | 274.0 |
| 25° | 295.5 | 295.2 | 293.1 | 291.1 | 288.7 | 286.6 | 285.3 | 284.9 | 284.2 | 284.2 | 284.6 |
| 27.5° | 314.0 | 313.3 | 310.2 | 307.5 | 304.8 | 302.0 | 300.3 | 298.9 | 298.6 | 298.3 | 298.3 |
| 30° | 337.2 | 336.2 | 333.5 | 330.1 | 327.0 | 323.6 | 320.1 | 319.1 | 317.4 | 316.0 | 318.4 |
| 32.5° | 381.7 | 382.4 | 376.9 | 370.1 | 363.2 | 356.7 | 350.9 | 346.5 | 343.7 | 344.1 | 344.1 |
| 35° | 430.6 | 431.0 | 428.6 | 425.8 | 423.8 | 420.0 | 413.5 | 408.0 | 403.9 | 399.5 | 401.5 |
| 37.5° | 451.8 | 452.2 | 450.1 | 449.8 | 451.1 | 453.5 | 460.0 | 464.8 | 472.0 | 473.0 | 471.0 |
| 40° | 489.1 | 487.4 | 484.7 | 484.0 | 483.0 | 486.4 | 489.1 | 491.5 | 492.5 | 494.6 | 492.5 |
| 42.5° | 528.1 | 527.4 | 525.4 | 523.0 | 523.0 | 523.7 | 528.1 | 531.9 | 534.3 | 534.6 | 534.3 |
| 45° | 571.9 | 570.9 | 569.1 | 568.8 | 569.8 | 572.9 | 576.0 | 580.8 | 588.3 | 588.6 | 588.3 |
| 47.5° | 620.1 | 620.8 | 618.1 | 619.1 | 620.8 | 625.9 | 634.5 | 642.3 | 650.6 | 653.6 | 649.9 |
| 50° | 686.1 | 683.7 | 683.7 | 682.7 | 687.1 | 694.7 | 704.9 | 714.2 | 725.8 | 728.5 | 722.7 |
| 52.5° | 775.7 | 770.6 | 771.6 | 768.9 | 771.3 | 778.1 | 794.9 | 809.3 | 824.0 | 831.1 | 819.9 |
| 55° | 883.5 | 874.9 | 876.0 | 878.7 | 880.7 | 892.4 | 913.6 | 930.0 | 957.7 | 960.1 | 947.1 |
| 57.5° | 971.7 | 969.3 | 970.7 | 977.2 | 990.2 | 1010.4 | 1037.1 | 1076.7 | 1110.9 | 1119.1 | 1105.1 |
| 60° | 1003.9 | 1005.6 | 1015.2 | 1032.3 | 1056.9 | 1092.8 | 1144.8 | 1206.7 | 1261.1 | 1277.5 | 1256.3 |
| 62.5° | 953.9 | 960.8 | 973.8 | 1002.2 | 1041.2 | 1099.6 | 1179.3 | 1272.7 | 1354.1 | 1385.9 | 1348.0 |
| 65° | 856.5 | 860.9 | 882.1 | 906.4 | 956.7 | 1023.7 | 1121.5 | 1243.0 | 1343.2 | 1385.2 | 1342.8 |
| 67.5° | 728.5 | 737.1 | 755.6 | 785.7 | 829.1 | 897.2 | 999.8 | 1123.9 | 1224.5 | 1261.4 | 1224.1 |
| 70° | 584.9 | 588.6 | 600.3 | 623.9 | 669.0 | 729.2 | 817.1 | 928.3 | 1026.1 | 1049.4 | 1019.6 |
| 72.5° | 405.7 | 413.2 | 423.1 | 444.6 | 473.0 | 524.0 | 596.5 | 678.3 | 756.9 | 805.2 | 761.4 |
| 75° | 174.8 | 164.9 | 186.8 | 208.3 | 243.2 | 290.4 | 347.2 | 414.2 | 492.2 | 524.3 | 481.2 |
| 77.5° | 52.3 | 52.0 | 55.4 | 61.6 | 73.9 | 97.8 | 137.2 | 182.3 | 242.5 | 263.4 | 226.1 |
| 80° | 42.8 | 44.1 | 45.5 | 46.9 | 48.2 | 49.9 | 53.0 | 61.9 | 75.9 | 89.6 | 72.9 |
| 82.5° | 36.3 | 38.0 | 41.7 | 43.8 | 44.8 | 45.1 | 45.1 | 44.8 | 43.1 | 42.4 | 42.1 |
| 85° | 27.4 | 30.1 | 35.2 | 38.3 | 38.3 | 38.3 | 38.3 | 37.3 | 34.9 | 30.8 | 34.2 |
| 87.5° | 9.2 | 12.3 | 20.5 | 21.9 | 22.6 | 20.9 | 21.9 | 22.2 | 18.5 | 14.0 | 17.8 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P140381

CATALOG NUMBER: MEM-E01-LED-E-U-5MQ-7050

CANDELA DISTRIBUTION (continued):

| | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|-------|-------|
| 0° | 198.7 | 198.7 | 198.7 | 198.7 | 198.7 | 198.7 | 198.7 | 198.7 |
| 2.5° | 199.7 | 199.7 | 199.7 | 200.1 | 199.7 | 199.7 | 199.7 | 199.7 |
| 5° | 204.9 | 204.5 | 204.9 | 204.5 | 204.9 | 204.9 | 204.5 | 204.9 |
| 7.5° | 212.7 | 212.7 | 213.1 | 213.1 | 212.7 | 212.7 | 212.7 | 212.7 |
| 10° | 223.3 | 222.7 | 223.0 | 223.0 | 223.0 | 222.7 | 222.7 | 222.3 |
| 12.5° | 234.3 | 233.6 | 233.6 | 233.6 | 233.6 | 233.3 | 233.6 | 233.6 |
| 15° | 244.6 | 243.9 | 243.2 | 243.2 | 243.5 | 243.9 | 243.9 | 243.5 |
| 17.5° | 254.5 | 253.8 | 252.8 | 252.8 | 252.4 | 253.1 | 253.8 | 253.4 |
| 20° | 264.4 | 264.1 | 262.3 | 262.3 | 262.3 | 263.0 | 263.4 | 264.4 |
| 22.5° | 274.3 | 274.0 | 272.6 | 272.3 | 272.6 | 274.0 | 275.0 | 275.0 |
| 25° | 284.9 | 285.6 | 285.3 | 285.3 | 285.9 | 288.0 | 289.0 | 290.4 |
| 27.5° | 300.0 | 301.3 | 301.7 | 303.0 | 303.4 | 305.8 | 307.5 | 309.5 |
| 30° | 319.5 | 321.9 | 323.2 | 325.6 | 327.3 | 328.7 | 331.1 | 332.8 |
| 32.5° | 346.5 | 352.3 | 359.1 | 367.0 | 370.4 | 376.6 | 379.3 | 380.0 |
| 35° | 408.7 | 414.9 | 420.7 | 424.1 | 422.8 | 424.5 | 424.5 | 425.8 |
| 37.5° | 464.8 | 458.7 | 453.5 | 452.5 | 449.8 | 448.8 | 449.1 | 450.1 |
| 40° | 490.8 | 487.7 | 485.7 | 486.7 | 485.3 | 484.3 | 485.0 | 485.3 |
| 42.5° | 532.9 | 528.1 | 526.4 | 526.1 | 525.4 | 526.1 | 527.8 | 527.1 |
| 45° | 582.1 | 576.0 | 573.6 | 573.3 | 572.2 | 571.9 | 572.6 | 573.9 |
| 47.5° | 641.3 | 633.8 | 626.3 | 623.9 | 623.9 | 621.8 | 623.2 | 621.1 |
| 50° | 713.8 | 701.5 | 693.6 | 689.2 | 686.5 | 683.4 | 686.1 | 681.7 |
| 52.5° | 809.3 | 791.8 | 783.3 | 777.4 | 769.6 | 769.9 | 770.6 | 768.9 |
| 55° | 929.7 | 910.5 | 893.7 | 882.5 | 877.7 | 874.9 | 874.2 | 879.7 |
| 57.5° | 1068.2 | 1034.3 | 1007.6 | 987.8 | 980.3 | 970.0 | 965.2 | 965.2 |
| 60° | 1199.9 | 1138.3 | 1085.3 | 1052.1 | 1027.5 | 1010.0 | 998.4 | 995.0 |
| 62.5° | 1264.2 | 1170.8 | 1093.1 | 1038.4 | 999.4 | 974.5 | 957.7 | 953.3 |
| 65° | 1236.5 | 1117.8 | 1026.4 | 964.9 | 919.7 | 887.6 | 868.1 | 862.6 |
| 67.5° | 1125.0 | 1000.8 | 904.7 | 842.8 | 794.2 | 759.3 | 744.6 | 738.5 |
| 70° | 934.1 | 820.2 | 736.7 | 676.2 | 625.6 | 596.2 | 576.0 | 567.8 |
| 72.5° | 671.4 | 584.9 | 508.3 | 456.3 | 410.8 | 395.4 | 368.0 | 365.3 |
| 75° | 396.8 | 321.5 | 258.2 | 218.6 | 177.9 | 155.6 | 143.0 | 129.3 |
| 77.5° | 161.4 | 115.3 | 86.5 | 65.3 | 56.1 | 51.0 | 48.6 | 47.9 |
| 80° | 55.1 | 49.3 | 46.5 | 45.5 | 44.1 | 43.4 | 41.7 | 40.4 |
| 82.5° | 43.4 | 43.1 | 41.7 | 41.4 | 40.0 | 38.0 | 34.5 | 32.5 |
| 85° | 36.3 | 35.6 | 33.9 | 33.5 | 32.5 | 29.8 | 26.0 | 23.6 |
| 87.5° | 20.5 | 18.8 | 17.1 | 17.4 | 16.4 | 14.4 | 10.6 | 7.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)