

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: P823441

Luminaire Tested: **TTN-D3-735-U-CQ**

Issue Date: 4/16/2024

Test Information

Test Method: LM-79-08
Report Number: P823441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2312-254-9)
Test Lab: INNOVATION CENTER
Issue Date: 4/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TTN-D3-735-U-CQ
Description: TOPTIER NANO LED PARKING GARAGE LUMINAIRE
3500K, 70 CRI LEDS AND CONCENTRATED DISTRIBUTION
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6708 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Circular (Dia: 0.71' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

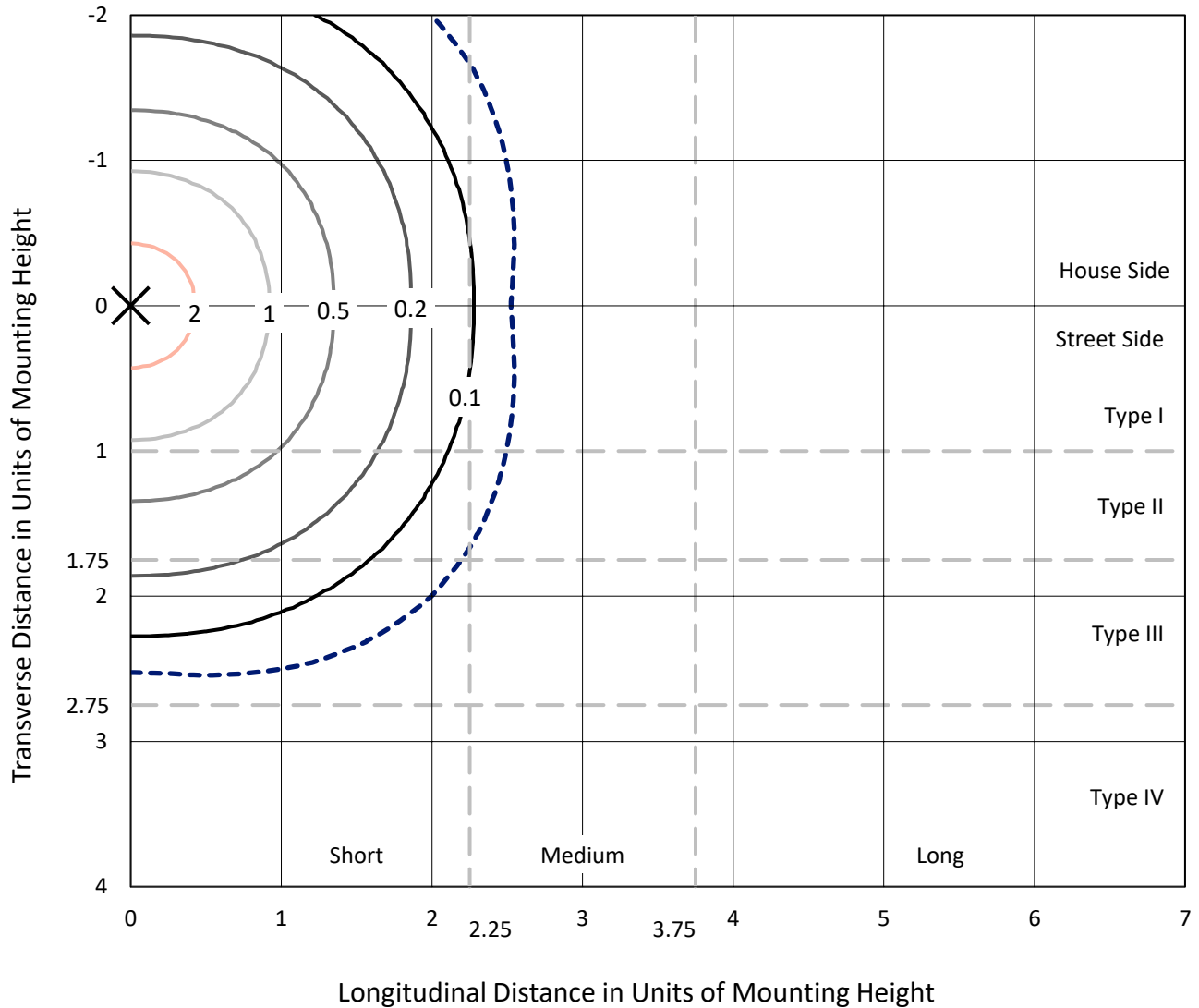
Input Watts (W): 59.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

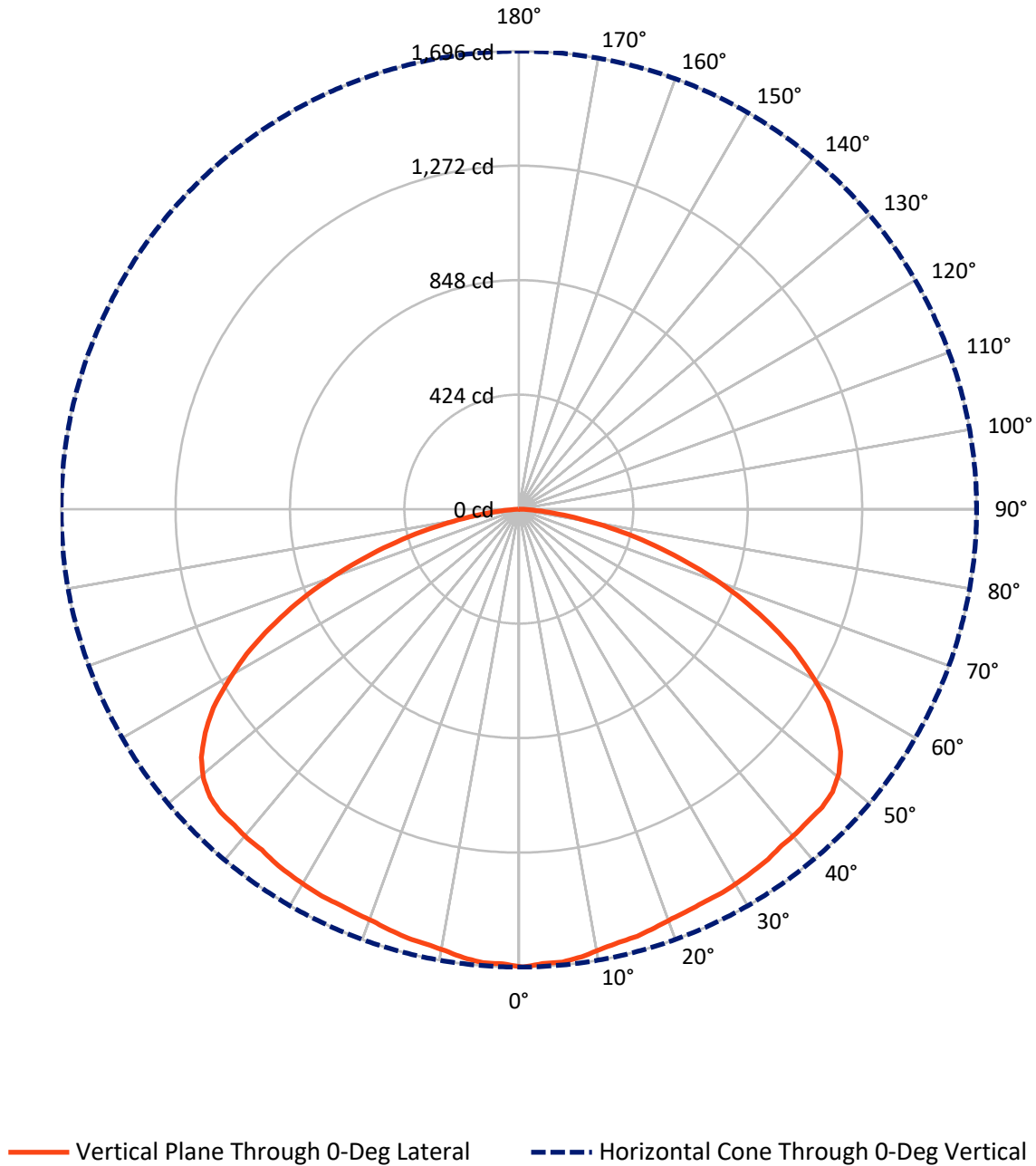
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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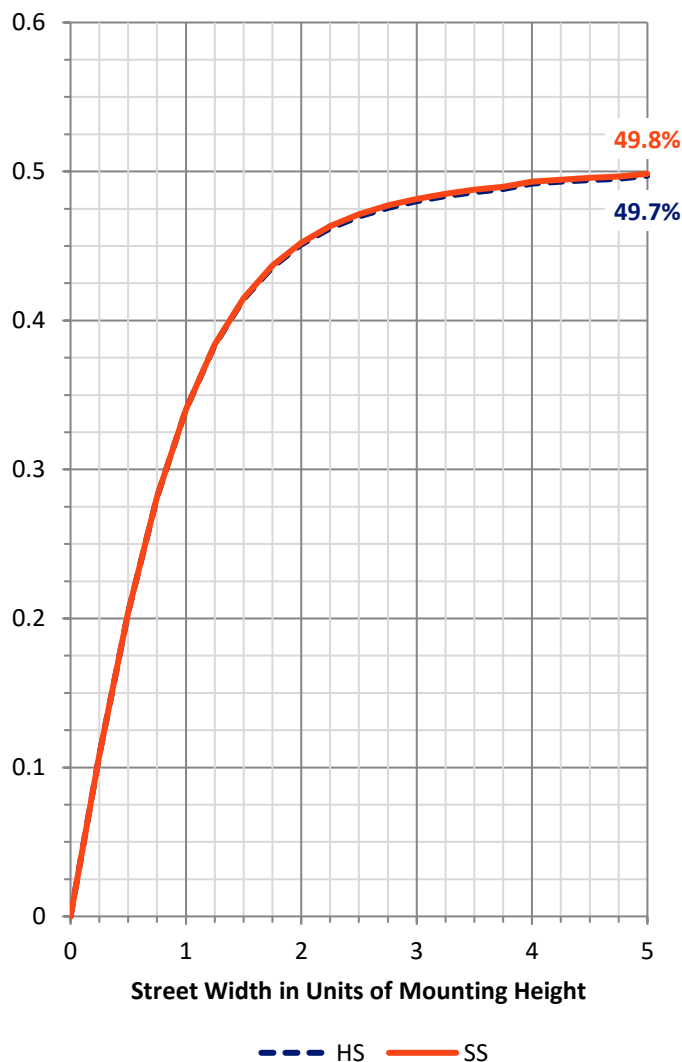
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3354.0 | 0.0 | 3354.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3354.0 | 0.0 | 3354.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6708.0 | 0.0 | 6708.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 159.9 | 2.4 |
| 10°-20° | 464.4 | 6.9 |
| 20°-30° | 747.8 | 11.1 |
| 30°-40° | 1005.8 | 15.0 |
| 40°-50° | 1241.0 | 18.5 |
| 50°-60° | 1331.4 | 19.8 |
| 60°-70° | 1079.7 | 16.1 |
| 70°-80° | 572.2 | 8.5 |
| 80°-90° | 105.8 | 1.6 |
| 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° | 6708.0 | 100.0 |
| 0°-180° | 6708.0 | 100.0 |

Coefficient of Utilization



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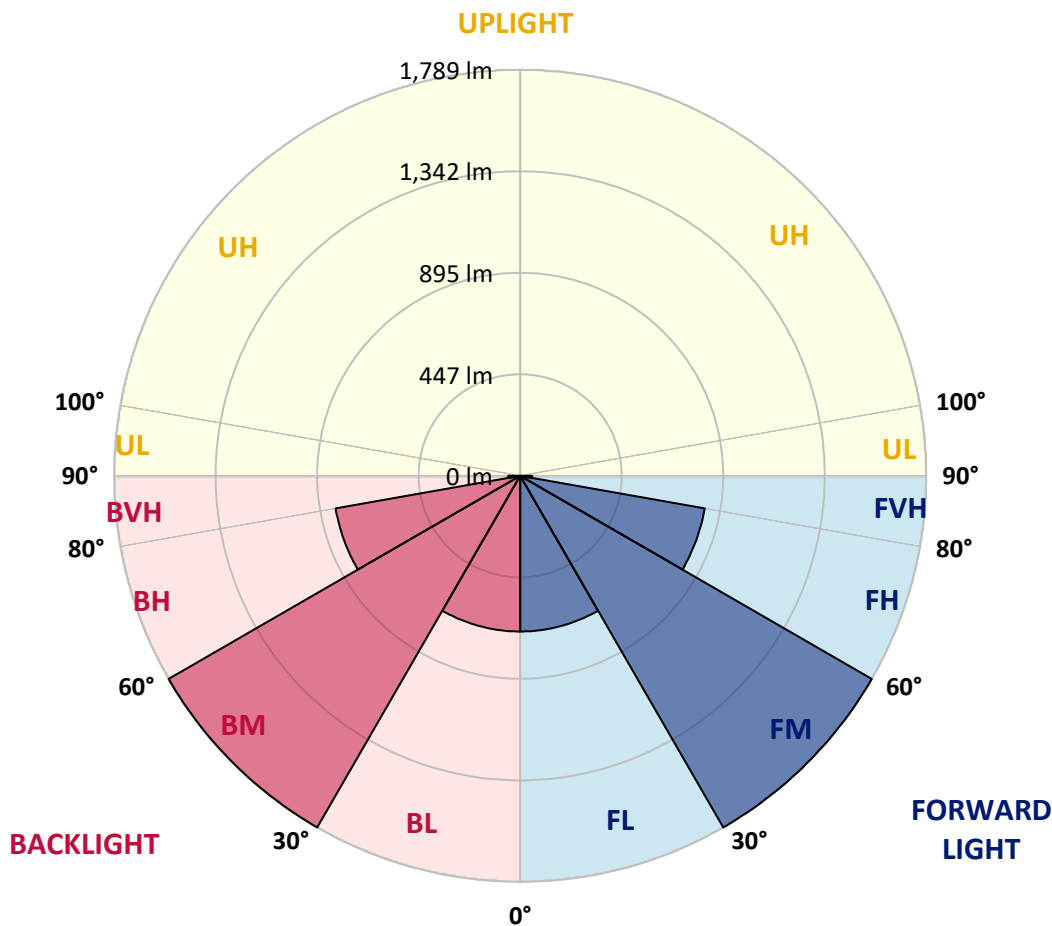
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 686.1 | 10.2 | | | |
| FM (30°-60°) | 1789.1 | 26.7 | | | |
| FH (60°-80°) | 825.9 | 12.3 | | | G1/1800 |
| FVH (80°-90°) | 52.9 | 0.8 | | | G1/100 |
| BL (0°-30°) | 686.1 | 10.2 | B2/1000 | | |
| BM (30°-60°) | 1789.1 | 26.7 | B2/2500 | | |
| BH (60°-80°) | 825.9 | 12.3 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 52.9 | 0.8 | | | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1696.2 | 1696.2 | 1696.2 | 1696.2 | 1696.2 | 1696.2 | 1696.2 | 1696.2 | 1696.2 | 1696.2 | 1696.2 |
| 2.5° | 1685.2 | 1685.2 | 1685.2 | 1685.2 | 1685.2 | 1685.2 | 1685.2 | 1685.2 | 1685.2 | 1685.2 | 1690.7 |
| 5° | 1685.2 | 1685.2 | 1685.2 | 1685.2 | 1679.7 | 1685.2 | 1685.2 | 1685.2 | 1685.2 | 1685.2 | 1685.2 |
| 7.5° | 1674.3 | 1674.3 | 1674.3 | 1674.3 | 1674.3 | 1674.3 | 1674.3 | 1674.3 | 1674.3 | 1674.3 | 1674.3 |
| 10° | 1657.8 | 1657.8 | 1657.8 | 1657.8 | 1657.8 | 1657.8 | 1657.8 | 1657.8 | 1657.8 | 1657.8 | 1657.8 |
| 12.5° | 1646.8 | 1646.8 | 1646.8 | 1646.8 | 1646.8 | 1646.8 | 1646.8 | 1646.8 | 1646.8 | 1646.8 | 1646.8 |
| 15° | 1641.3 | 1641.3 | 1641.3 | 1641.3 | 1641.3 | 1641.3 | 1641.3 | 1641.3 | 1641.3 | 1635.8 | 1635.8 |
| 17.5° | 1630.3 | 1630.3 | 1630.3 | 1630.3 | 1635.8 | 1635.8 | 1635.8 | 1630.3 | 1630.3 | 1630.3 | 1630.3 |
| 20° | 1619.4 | 1619.4 | 1619.4 | 1624.9 | 1624.9 | 1624.9 | 1624.9 | 1624.9 | 1619.4 | 1619.4 | 1619.4 |
| 22.5° | 1613.9 | 1613.9 | 1613.9 | 1613.9 | 1619.4 | 1619.4 | 1619.4 | 1619.4 | 1613.9 | 1613.9 | 1613.9 |
| 25° | 1608.4 | 1608.4 | 1613.9 | 1613.9 | 1619.4 | 1619.4 | 1619.4 | 1613.9 | 1613.9 | 1608.4 | 1608.4 |
| 27.5° | 1608.4 | 1608.4 | 1613.9 | 1613.9 | 1619.4 | 1619.4 | 1619.4 | 1619.4 | 1613.9 | 1608.4 | 1608.4 |
| 30° | 1602.9 | 1608.4 | 1608.4 | 1613.9 | 1619.4 | 1619.4 | 1619.4 | 1613.9 | 1608.4 | 1602.9 | 1602.9 |
| 32.5° | 1597.4 | 1597.4 | 1602.9 | 1608.4 | 1613.9 | 1613.9 | 1613.9 | 1608.4 | 1602.9 | 1597.4 | 1591.9 |
| 35° | 1591.9 | 1591.9 | 1591.9 | 1602.9 | 1608.4 | 1608.4 | 1608.4 | 1602.9 | 1591.9 | 1586.4 | 1586.4 |
| 37.5° | 1580.9 | 1586.4 | 1591.9 | 1597.4 | 1608.4 | 1608.4 | 1608.4 | 1597.4 | 1586.4 | 1580.9 | 1575.4 |
| 40° | 1580.9 | 1580.9 | 1591.9 | 1597.4 | 1613.9 | 1613.9 | 1608.4 | 1597.4 | 1586.4 | 1575.4 | 1570.0 |
| 42.5° | 1575.4 | 1580.9 | 1591.9 | 1608.4 | 1624.9 | 1624.9 | 1619.4 | 1602.9 | 1586.4 | 1575.4 | 1570.0 |
| 45° | 1575.4 | 1575.4 | 1591.9 | 1613.9 | 1635.8 | 1641.3 | 1630.3 | 1613.9 | 1591.9 | 1570.0 | 1570.0 |
| 47.5° | 1564.5 | 1564.5 | 1586.4 | 1613.9 | 1641.3 | 1646.8 | 1641.3 | 1613.9 | 1586.4 | 1570.0 | 1564.5 |
| 50° | 1537.0 | 1537.0 | 1564.5 | 1597.4 | 1630.3 | 1641.3 | 1630.3 | 1608.4 | 1570.0 | 1548.0 | 1542.5 |
| 52.5° | 1493.1 | 1493.1 | 1520.6 | 1564.5 | 1597.4 | 1613.9 | 1602.9 | 1575.4 | 1537.0 | 1504.1 | 1498.6 |
| 55° | 1427.2 | 1432.7 | 1460.2 | 1509.6 | 1548.0 | 1564.5 | 1553.5 | 1520.6 | 1476.6 | 1443.7 | 1432.7 |
| 57.5° | 1350.4 | 1350.4 | 1388.8 | 1438.2 | 1476.6 | 1493.1 | 1482.1 | 1449.2 | 1399.8 | 1366.9 | 1355.9 |
| 60° | 1246.1 | 1251.6 | 1284.5 | 1350.4 | 1388.8 | 1405.3 | 1394.3 | 1355.9 | 1301.0 | 1262.6 | 1251.6 |
| 62.5° | 1141.8 | 1147.3 | 1180.2 | 1235.1 | 1279.0 | 1290.0 | 1279.0 | 1240.6 | 1191.2 | 1152.8 | 1141.8 |
| 65° | 1021.0 | 1026.5 | 1064.9 | 1114.3 | 1147.3 | 1163.7 | 1147.3 | 1114.3 | 1070.4 | 1032.0 | 1026.5 |
| 67.5° | 894.8 | 900.3 | 938.7 | 982.6 | 1015.5 | 1026.5 | 1010.0 | 982.6 | 938.7 | 905.7 | 894.8 |
| 70° | 763.0 | 768.5 | 801.4 | 839.9 | 867.3 | 878.3 | 867.3 | 834.4 | 801.4 | 768.5 | 763.0 |
| 72.5° | 625.8 | 631.3 | 664.2 | 697.1 | 719.1 | 730.1 | 713.6 | 691.7 | 658.7 | 631.3 | 625.8 |
| 75° | 494.0 | 494.0 | 521.5 | 548.9 | 570.9 | 576.4 | 565.4 | 548.9 | 521.5 | 499.5 | 488.6 |
| 77.5° | 367.8 | 367.8 | 395.2 | 411.7 | 422.7 | 433.7 | 422.7 | 406.2 | 389.7 | 367.8 | 367.8 |
| 80° | 247.0 | 247.0 | 269.0 | 280.0 | 290.9 | 296.4 | 290.9 | 280.0 | 269.0 | 252.5 | 247.0 |
| 82.5° | 148.2 | 148.2 | 159.2 | 170.2 | 170.2 | 175.7 | 175.7 | 170.2 | 159.2 | 148.2 | 148.2 |
| 85° | 65.9 | 60.4 | 71.4 | 76.9 | 76.9 | 82.3 | 82.3 | 76.9 | 71.4 | 65.9 | 65.9 |
| 87.5° | 5.5 | 11.0 | 11.0 | 16.5 | 16.5 | 16.5 | 16.5 | 16.5 | 11.0 | 11.0 | 11.0 |
| 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)