

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: LUMARK

Report Number: P381055

Luminaire Tested: **PRV-PA2B-730-U-5WQ**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-1)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-PA2B-730-U-5WQ
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18517 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

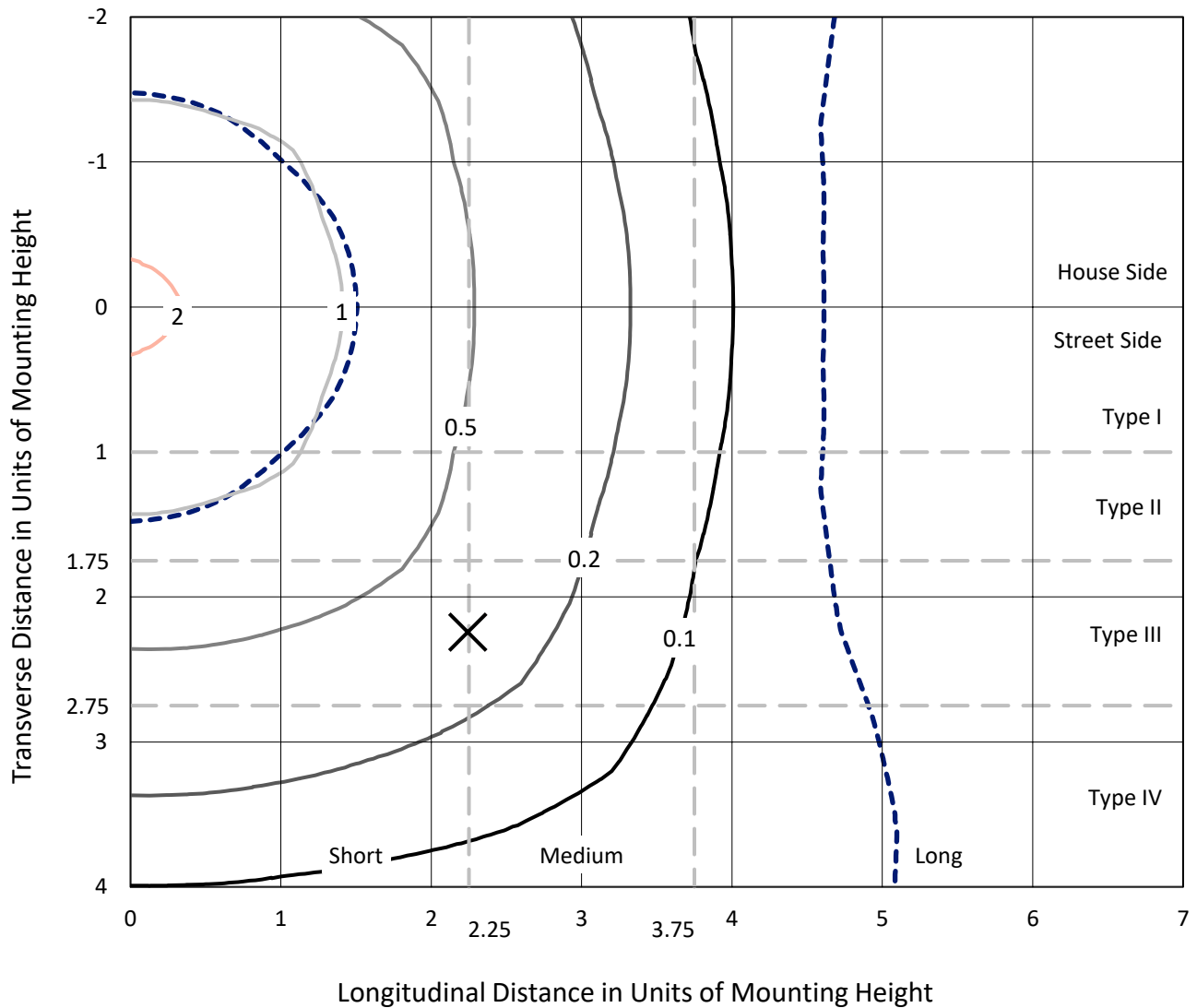
Input Watts (W): 151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

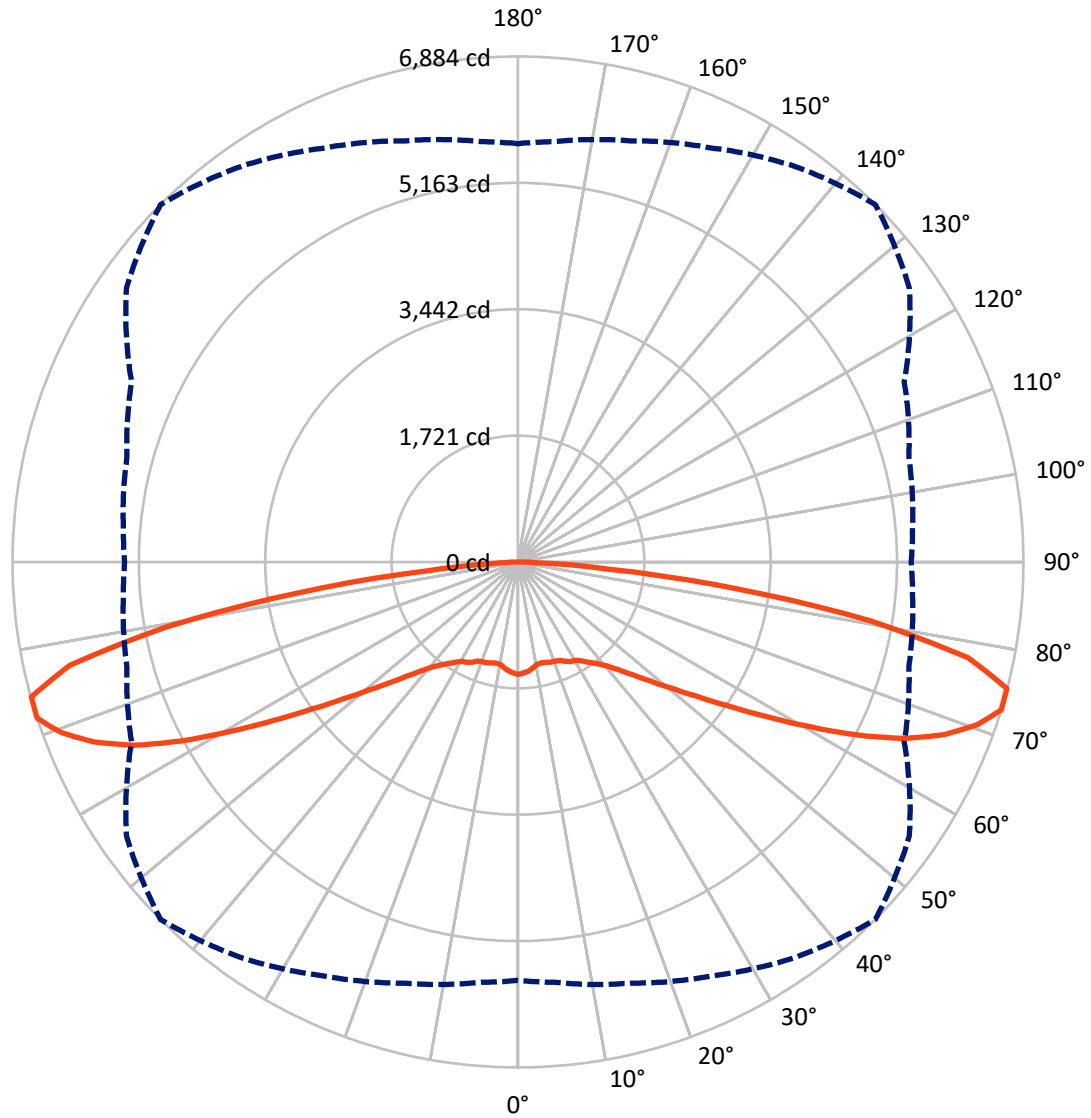
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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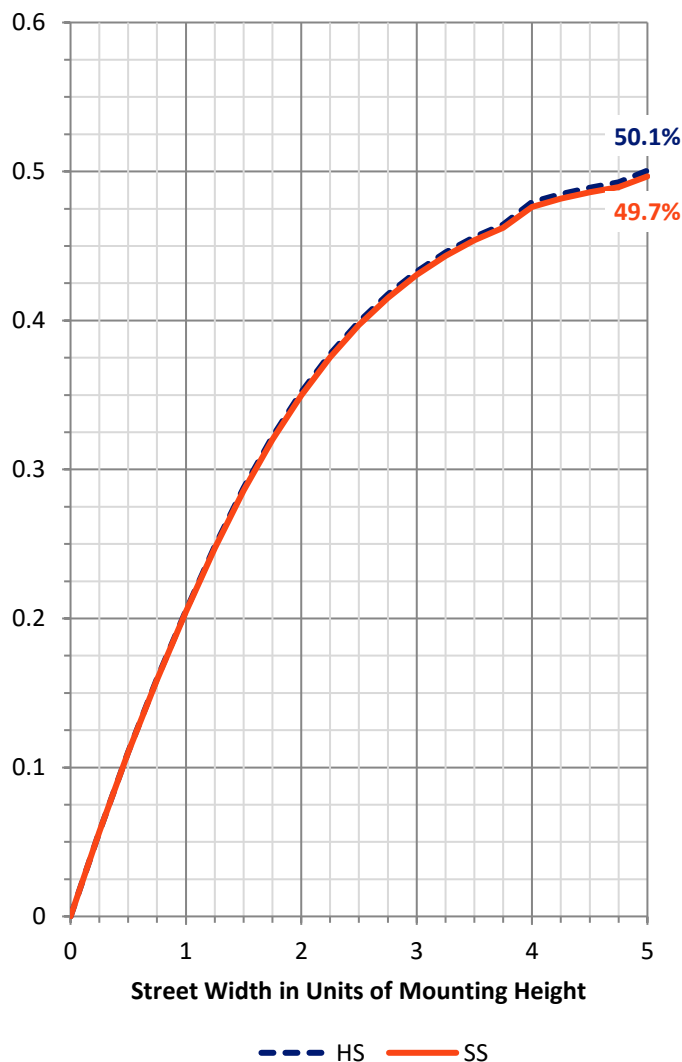
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9258.5 | 0.0 | 9258.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9258.5 | 0.0 | 9258.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 18517.0 | 0.0 | 18517.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 140.5 | 0.8 |
| 10°-20° | 407.9 | 2.2 |
| 20°-30° | 693.0 | 3.7 |
| 30°-40° | 1057.0 | 5.7 |
| 40°-50° | 1740.5 | 9.4 |
| 50°-60° | 3039.5 | 16.4 |
| 60°-70° | 5095.7 | 27.5 |
| 70°-80° | 5453.5 | 29.5 |
| 80°-90° | 889.5 | 4.8 |
| 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° | 18517.0 | 100.0 |
| 0°-180° | 18517.0 | 100.0 |

Coefficient of Utilization



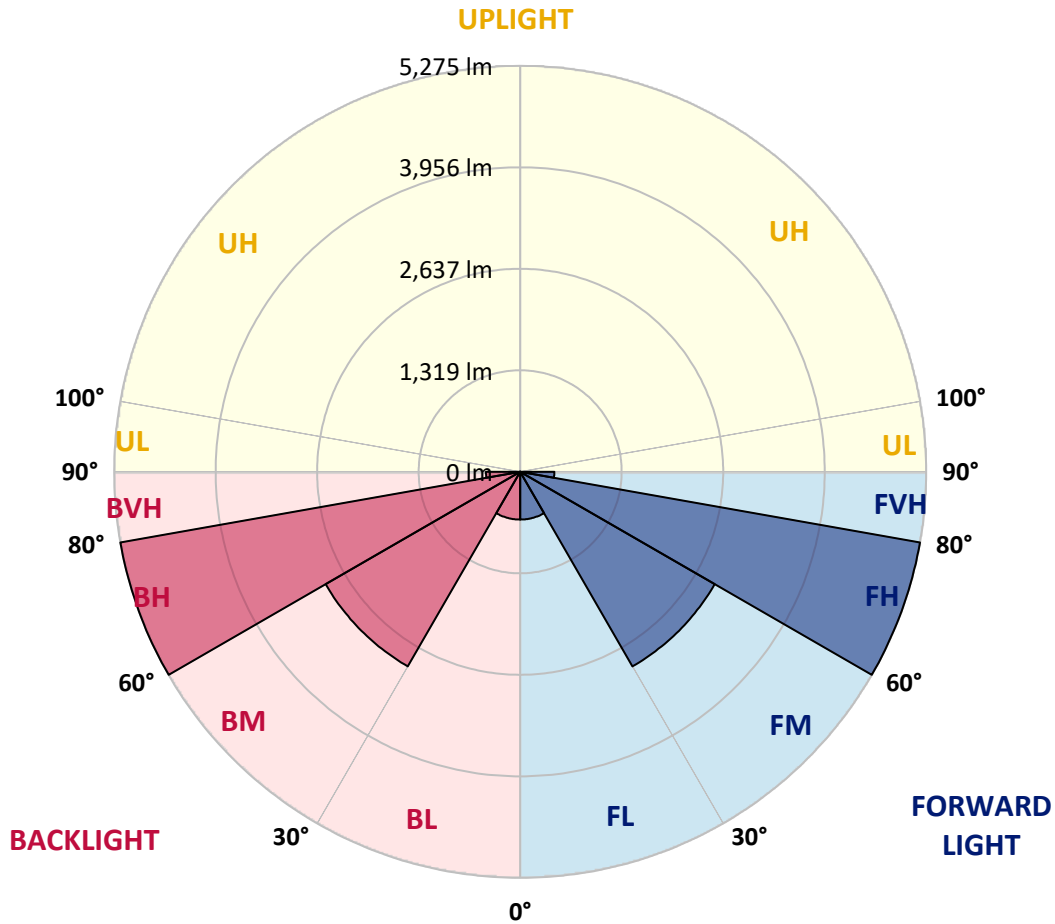
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 620.7 | 3.4 | | | |
| FM (30°-60°) | 2918.5 | 15.8 | | | |
| FH (60°-80°) | 5274.6 | 28.5 | | | G3/7500 |
| FVH (80°-90°) | 444.7 | 2.4 | | | G3/500 |
| BL (0°-30°) | 620.7 | 3.4 | B2/1000 | | |
| BM (30°-60°) | 2918.5 | 15.8 | B3/5000 | | |
| BH (60°-80°) | 5274.6 | 28.5 | B5 | | G3/7500 |
| BVH (80°-90°) | 444.7 | 2.4 | | | G3/500 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1532.3 | 1532.3 | 1532.3 | 1532.3 | 1532.3 | 1532.3 | 1532.3 | 1532.3 | 1532.3 | 1532.3 | 1532.3 |
| 2.5° | 1522.8 | 1522.8 | 1522.8 | 1520.5 | 1515.7 | 1513.4 | 1508.7 | 1511.0 | 1511.0 | 1511.0 | 1511.0 |
| 5° | 1503.9 | 1503.9 | 1501.6 | 1499.2 | 1494.5 | 1492.1 | 1487.4 | 1492.1 | 1492.1 | 1492.1 | 1492.1 |
| 7.5° | 1468.5 | 1470.8 | 1470.8 | 1468.5 | 1461.4 | 1459.0 | 1451.9 | 1454.3 | 1454.3 | 1456.6 | 1454.3 |
| 10° | 1449.5 | 1449.5 | 1447.2 | 1435.4 | 1423.5 | 1418.8 | 1416.4 | 1423.5 | 1430.6 | 1437.7 | 1437.7 |
| 12.5° | 1449.5 | 1449.5 | 1444.8 | 1425.9 | 1409.3 | 1409.3 | 1409.3 | 1418.8 | 1433.0 | 1447.2 | 1449.5 |
| 15° | 1456.6 | 1456.6 | 1447.2 | 1425.9 | 1416.4 | 1418.8 | 1418.8 | 1428.3 | 1444.8 | 1463.7 | 1466.1 |
| 17.5° | 1461.4 | 1461.4 | 1449.5 | 1428.3 | 1428.3 | 1435.4 | 1430.6 | 1437.7 | 1454.3 | 1475.6 | 1477.9 |
| 20° | 1468.5 | 1468.5 | 1451.9 | 1435.4 | 1435.4 | 1442.4 | 1442.4 | 1449.5 | 1463.7 | 1485.0 | 1487.4 |
| 22.5° | 1482.6 | 1480.3 | 1463.7 | 1449.5 | 1449.5 | 1454.3 | 1459.0 | 1468.5 | 1480.3 | 1499.2 | 1503.9 |
| 25° | 1499.2 | 1499.2 | 1485.0 | 1482.6 | 1487.4 | 1499.2 | 1496.8 | 1494.5 | 1499.2 | 1515.7 | 1522.8 |
| 27.5° | 1508.7 | 1508.7 | 1499.2 | 1506.3 | 1525.2 | 1534.7 | 1522.8 | 1513.4 | 1513.4 | 1529.9 | 1532.3 |
| 30° | 1539.4 | 1537.0 | 1527.6 | 1532.3 | 1548.9 | 1553.6 | 1546.5 | 1534.7 | 1541.8 | 1560.7 | 1563.0 |
| 32.5° | 1591.4 | 1591.4 | 1577.2 | 1577.2 | 1589.1 | 1608.0 | 1584.3 | 1577.2 | 1586.7 | 1608.0 | 1610.3 |
| 35° | 1671.8 | 1671.8 | 1652.9 | 1643.4 | 1652.9 | 1678.9 | 1643.4 | 1641.1 | 1657.6 | 1681.3 | 1683.6 |
| 37.5° | 1773.5 | 1773.5 | 1761.7 | 1738.0 | 1740.4 | 1756.9 | 1726.2 | 1723.8 | 1754.6 | 1780.6 | 1780.6 |
| 40° | 1901.2 | 1908.3 | 1896.5 | 1868.1 | 1858.6 | 1861.0 | 1837.3 | 1839.7 | 1875.2 | 1905.9 | 1905.9 |
| 42.5° | 2059.6 | 2064.4 | 2045.4 | 2024.2 | 2012.3 | 2005.2 | 1981.6 | 1986.3 | 2028.9 | 2069.1 | 2069.1 |
| 45° | 2251.2 | 2253.5 | 2234.6 | 2208.6 | 2194.4 | 2189.7 | 2166.0 | 2177.9 | 2225.1 | 2267.7 | 2265.3 |
| 47.5° | 2466.3 | 2468.7 | 2449.8 | 2423.8 | 2414.3 | 2421.4 | 2397.8 | 2397.8 | 2440.3 | 2475.8 | 2471.1 |
| 50° | 2709.9 | 2714.6 | 2693.4 | 2681.5 | 2674.4 | 2693.4 | 2665.0 | 2639.0 | 2667.3 | 2702.8 | 2698.1 |
| 52.5° | 2979.5 | 2991.3 | 2977.1 | 2981.8 | 3007.9 | 3031.5 | 2984.2 | 2927.5 | 2941.6 | 2965.3 | 2958.2 |
| 55° | 3305.8 | 3320.0 | 3324.7 | 3341.3 | 3409.8 | 3450.0 | 3372.0 | 3277.4 | 3270.3 | 3272.7 | 3260.9 |
| 57.5° | 3672.3 | 3681.8 | 3712.5 | 3750.4 | 3892.2 | 3956.1 | 3833.1 | 3670.0 | 3617.9 | 3587.2 | 3580.1 |
| 60° | 4041.2 | 4057.8 | 4133.4 | 4211.5 | 4429.0 | 4544.9 | 4355.7 | 4081.4 | 3970.3 | 3913.5 | 3901.7 |
| 62.5° | 4412.5 | 4445.6 | 4568.5 | 4701.0 | 5017.8 | 5190.4 | 4899.6 | 4502.3 | 4341.5 | 4270.6 | 4251.7 |
| 65° | 4842.8 | 4883.0 | 5032.0 | 5199.9 | 5552.2 | 5795.8 | 5443.5 | 4937.4 | 4764.8 | 4670.2 | 4646.6 |
| 67.5° | 5346.5 | 5389.1 | 5509.7 | 5696.5 | 6029.9 | 6268.7 | 5956.6 | 5382.0 | 5157.3 | 5036.7 | 5017.8 |
| 70° | 5760.3 | 5798.2 | 5928.2 | 6117.4 | 6365.7 | 6637.6 | 6339.7 | 5736.7 | 5533.3 | 5448.2 | 5436.4 |
| 72.5° | 5696.5 | 5746.1 | 5937.7 | 6221.4 | 6576.1 | 6883.5 | 6507.6 | 5805.3 | 5512.0 | 5393.8 | 5356.0 |
| 75° | 4975.3 | 5029.6 | 5256.6 | 5769.8 | 6417.7 | 6876.4 | 6264.0 | 5348.9 | 5003.6 | 4904.3 | 4885.4 |
| 77.5° | 3294.0 | 3346.0 | 3729.1 | 4537.8 | 5604.3 | 6266.4 | 5528.6 | 4481.0 | 3925.3 | 3686.5 | 3672.3 |
| 80° | 1331.3 | 1397.5 | 1764.0 | 2622.4 | 3972.6 | 4871.2 | 4100.3 | 2868.3 | 1934.3 | 1560.7 | 1485.0 |
| 82.5° | 309.8 | 368.9 | 536.8 | 967.1 | 2033.6 | 3033.9 | 2211.0 | 1071.2 | 621.9 | 442.2 | 397.3 |
| 85° | 130.1 | 132.4 | 229.4 | 314.5 | 636.1 | 1224.9 | 723.6 | 390.2 | 316.9 | 231.7 | 227.0 |
| 87.5° | 49.7 | 52.0 | 111.1 | 132.4 | 203.4 | 231.7 | 245.9 | 201.0 | 186.8 | 115.9 | 111.1 |
| 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)