

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: P285875

Luminaire Tested: **PRV-XL-C75-D-UNV-T5-BZ-7050**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-11)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 2/13/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-C75-D-UNV-T5-BZ-7050
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K LEDS AND TYPE V OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28640 lumens
Efficiency: N/A
Efficacy: 162.7 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

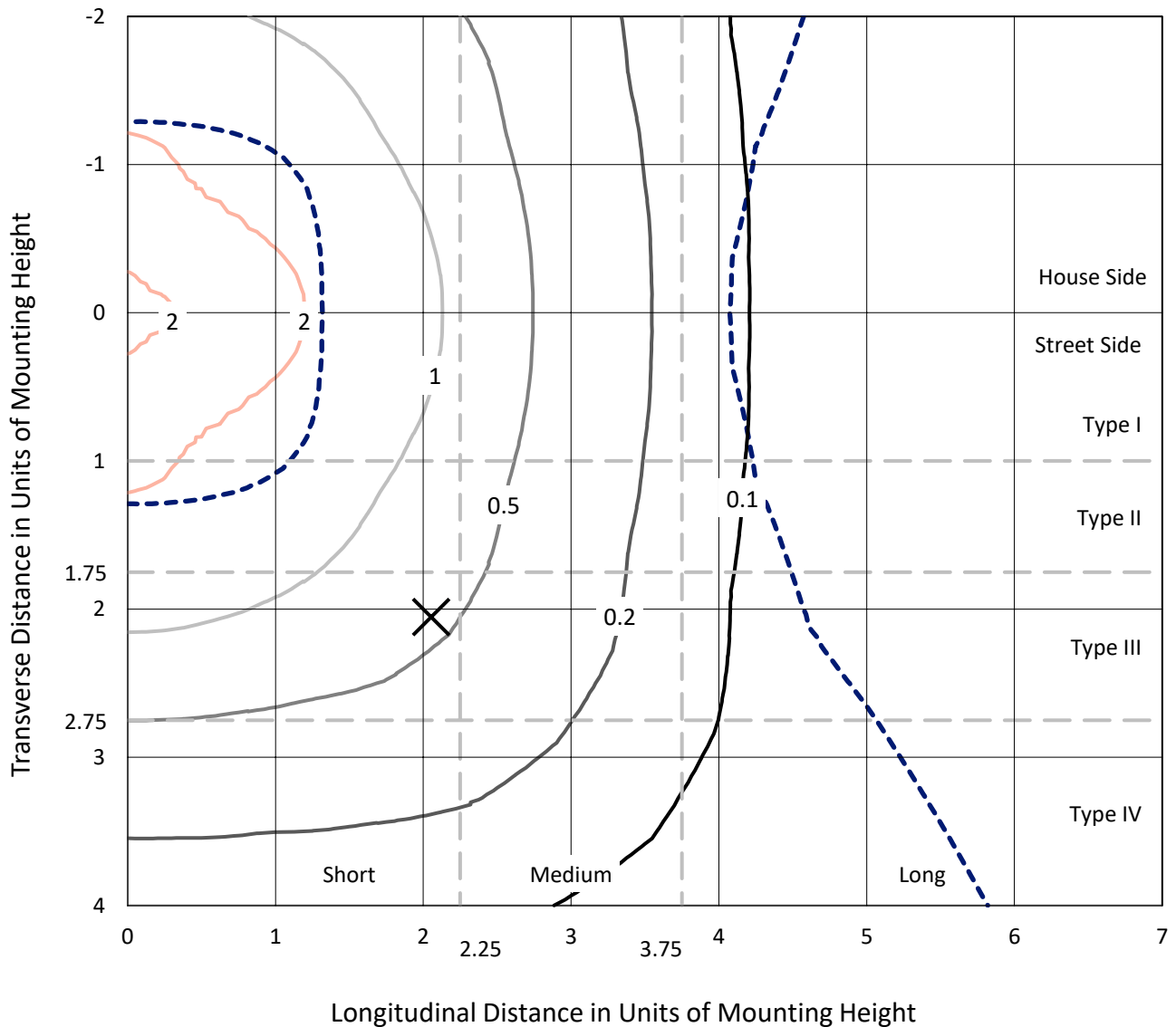
Input Watts (W): 176
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

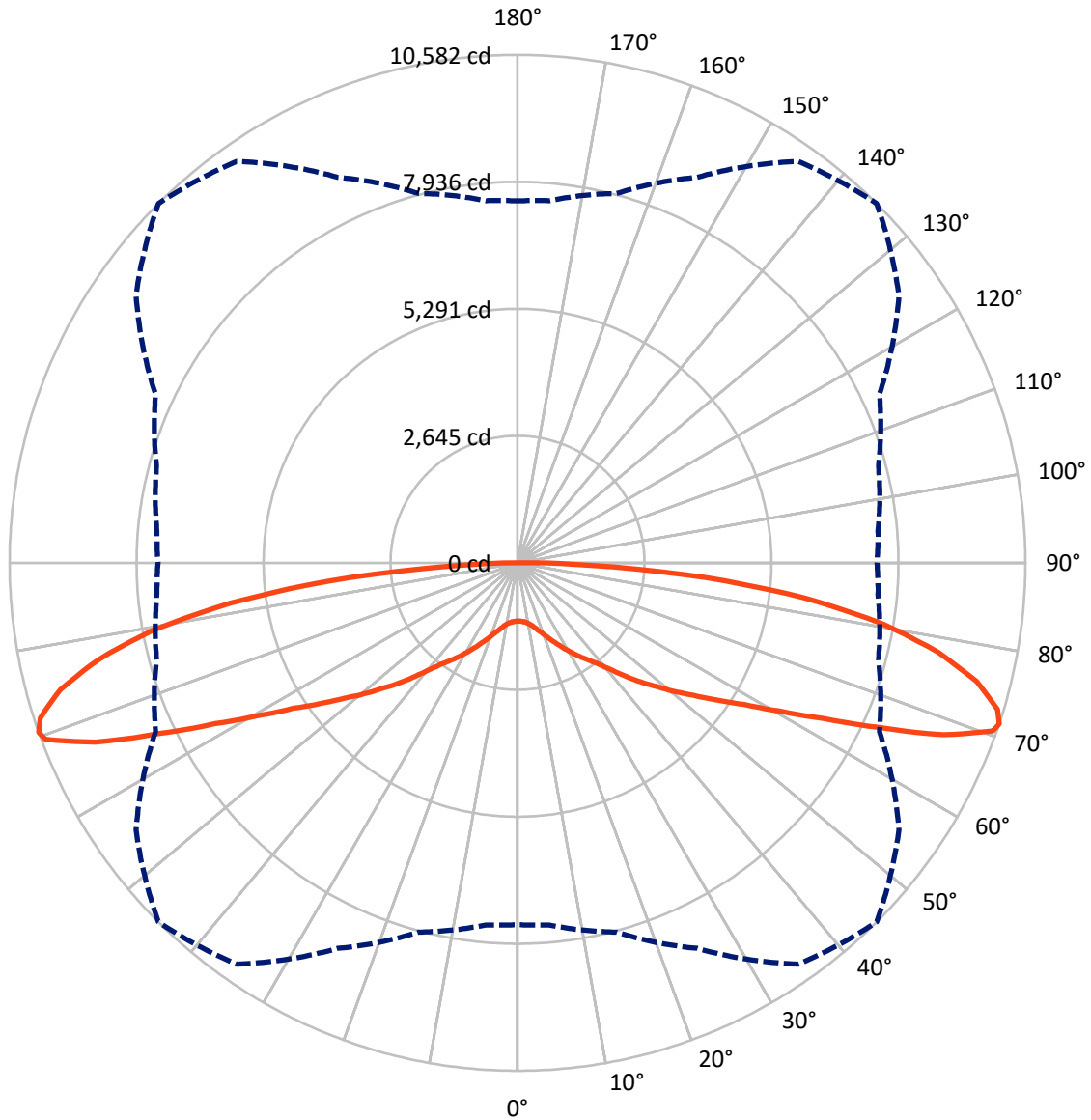
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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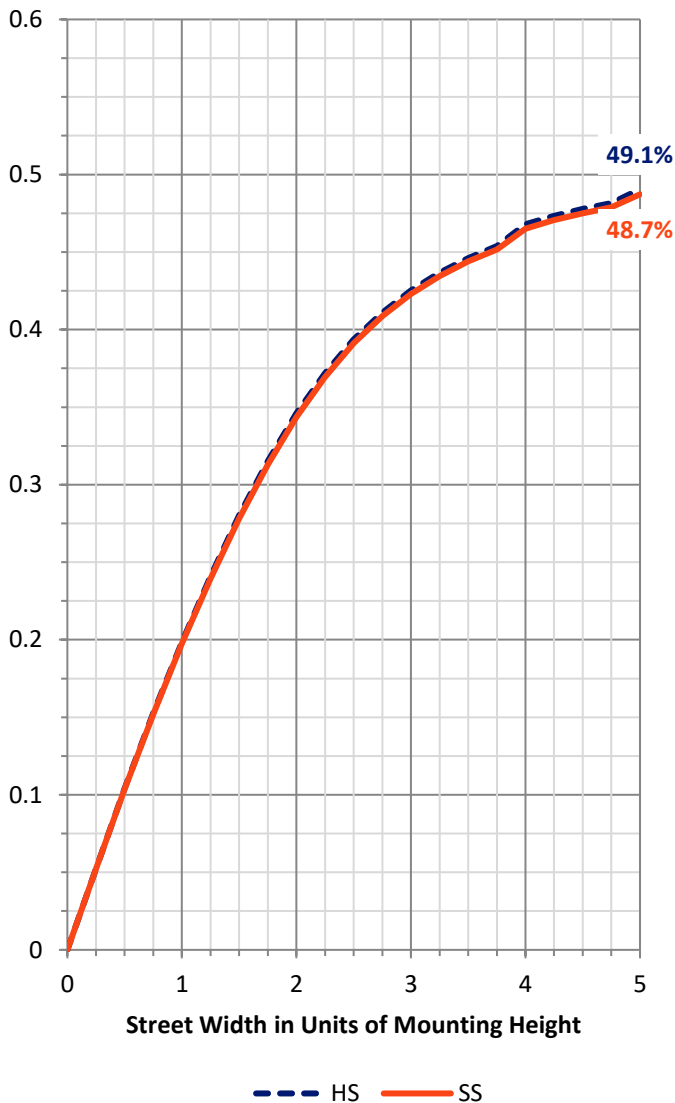
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 14320.0 | 0.0 | 14320.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 14320.0 | 0.0 | 14320.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 28640.0 | 0.0 | 28640.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 118.8 | 0.4 |
| 10°-20° | 400.6 | 1.4 |
| 20°-30° | 842.5 | 2.9 |
| 30°-40° | 1551.7 | 5.4 |
| 40°-50° | 2849.0 | 9.9 |
| 50°-60° | 4965.6 | 17.3 |
| 60°-70° | 8024.2 | 28.0 |
| 70°-80° | 7731.9 | 27.0 |
| 80°-90° | 2155.6 | 7.5 |
| 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° | 28640.0 | 100.0 |
| 0°-180° | 28640.0 | 100.0 |

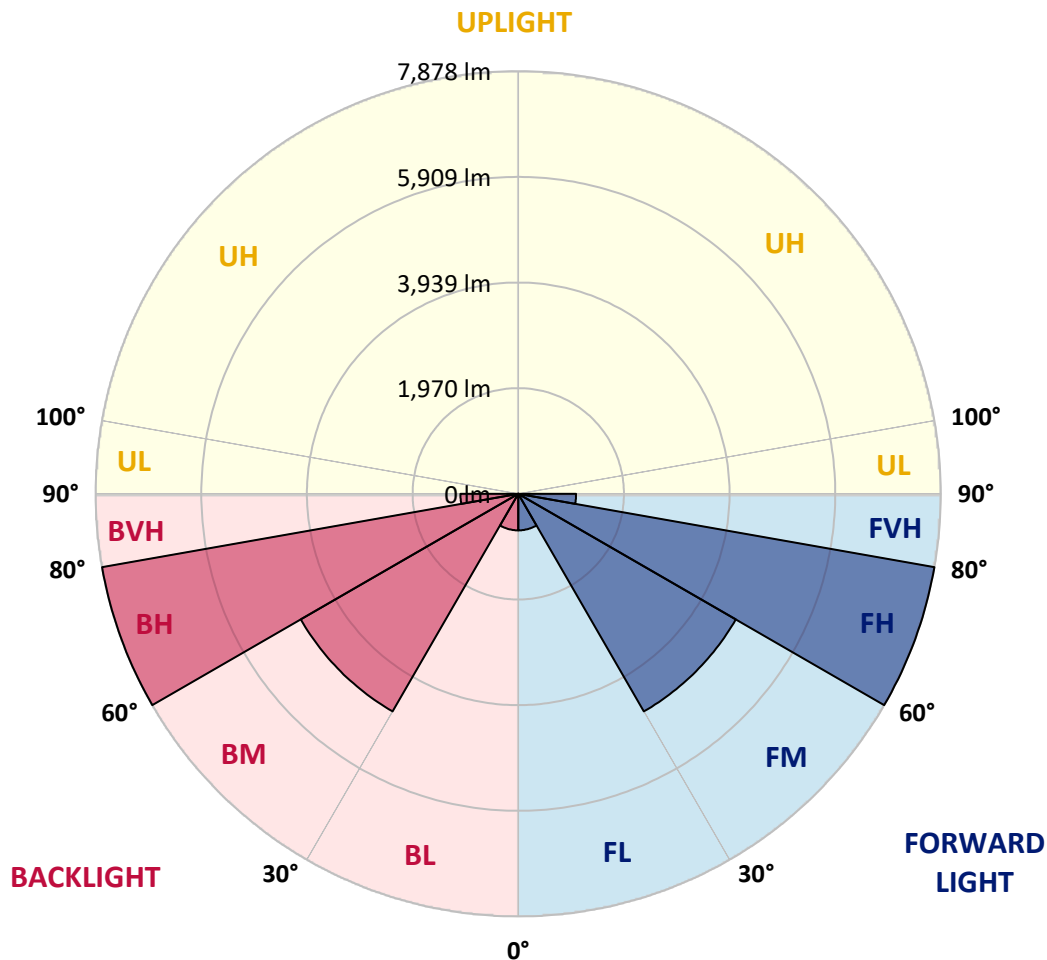


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 681.0 | 2.4 | | | |
| FM (30°-60°) | 4683.2 | 16.4 | | | |
| FH (60°-80°) | 7878.0 | 27.5 | | | G4/12000 |
| FVH (80°-90°) | 1077.8 | 3.8 | | | G5 |
| BL (0°-30°) | 681.0 | 2.4 | B2/1000 | | |
| BM (30°-60°) | 4683.2 | 16.4 | B3/5000 | | |
| BH (60°-80°) | 7878.0 | 27.5 | B5 | | G4/12000 |
| BVH (80°-90°) | 1077.8 | 3.8 | | | G5 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|--------|
| 0° | 1211.6 | 1211.6 | 1211.6 | 1211.6 | 1211.6 | 1211.6 | 1211.6 | 1211.6 | 1211.6 | 1211.6 | 1211.6 |
| 2.5° | 1216.7 | 1222.8 | 1219.8 | 1217.7 | 1218.8 | 1217.7 | 1215.7 | 1213.7 | 1211.6 | 1210.6 | 1210.6 |
| 5° | 1225.9 | 1230.0 | 1228.9 | 1227.9 | 1228.9 | 1231.0 | 1230.0 | 1228.9 | 1225.9 | 1223.8 | 1223.8 |
| 7.5° | 1248.3 | 1249.3 | 1250.3 | 1249.3 | 1249.3 | 1252.4 | 1250.3 | 1249.3 | 1243.2 | 1242.2 | 1240.1 |
| 10° | 1282.9 | 1281.9 | 1284.9 | 1286.0 | 1286.0 | 1288.0 | 1281.9 | 1277.8 | 1266.6 | 1265.6 | 1263.6 |
| 12.5° | 1323.6 | 1323.6 | 1327.7 | 1332.8 | 1336.9 | 1340.9 | 1329.7 | 1320.6 | 1305.3 | 1299.2 | 1300.2 |
| 15° | 1379.6 | 1378.6 | 1383.7 | 1394.9 | 1406.1 | 1414.2 | 1398.0 | 1382.7 | 1362.3 | 1354.2 | 1356.2 |
| 17.5° | 1452.9 | 1451.9 | 1460.1 | 1473.3 | 1491.6 | 1503.8 | 1481.4 | 1459.0 | 1440.7 | 1430.5 | 1430.5 |
| 20° | 1542.5 | 1543.6 | 1549.7 | 1567.0 | 1590.4 | 1605.7 | 1577.2 | 1547.6 | 1534.4 | 1525.2 | 1523.2 |
| 22.5° | 1647.4 | 1655.6 | 1652.5 | 1672.9 | 1704.4 | 1721.7 | 1688.1 | 1655.6 | 1643.3 | 1637.2 | 1635.2 |
| 25° | 1771.6 | 1779.8 | 1771.6 | 1792.0 | 1831.7 | 1849.0 | 1814.4 | 1778.8 | 1772.6 | 1768.6 | 1766.5 |
| 27.5° | 1910.1 | 1911.1 | 1909.1 | 1920.3 | 1974.2 | 1991.5 | 1945.7 | 1914.2 | 1917.2 | 1915.2 | 1912.1 |
| 30° | 2060.8 | 2059.8 | 2057.7 | 2054.7 | 2122.9 | 2144.3 | 2093.4 | 2067.9 | 2078.1 | 2072.0 | 2072.0 |
| 32.5° | 2228.8 | 2225.7 | 2214.5 | 2221.7 | 2262.4 | 2304.1 | 2244.1 | 2228.8 | 2258.3 | 2254.2 | 2258.3 |
| 35° | 2413.1 | 2412.1 | 2390.7 | 2397.8 | 2426.3 | 2464.0 | 2418.2 | 2411.0 | 2455.8 | 2466.0 | 2472.1 |
| 37.5° | 2622.8 | 2623.8 | 2594.3 | 2590.2 | 2613.7 | 2641.1 | 2623.8 | 2642.2 | 2708.3 | 2743.0 | 2733.8 |
| 40° | 2894.7 | 2890.6 | 2850.9 | 2818.3 | 2842.7 | 2878.4 | 2896.7 | 2947.6 | 3049.4 | 3101.4 | 3106.5 |
| 42.5° | 3262.2 | 3252.0 | 3206.2 | 3143.1 | 3155.3 | 3178.7 | 3233.7 | 3322.3 | 3444.5 | 3493.4 | 3479.1 |
| 45° | 3698.0 | 3679.7 | 3612.5 | 3540.2 | 3501.5 | 3509.6 | 3561.6 | 3671.5 | 3818.2 | 3883.3 | 3894.5 |
| 47.5° | 4190.8 | 4169.4 | 4068.6 | 3932.2 | 3838.5 | 3828.3 | 3880.3 | 4027.9 | 4206.1 | 4285.5 | 4281.4 |
| 50° | 4745.7 | 4719.2 | 4612.3 | 4402.6 | 4228.5 | 4199.0 | 4234.6 | 4417.9 | 4626.6 | 4733.5 | 4727.4 |
| 52.5° | 5351.5 | 5313.9 | 5196.8 | 4925.9 | 4694.8 | 4579.7 | 4631.7 | 4851.6 | 5064.4 | 5201.9 | 5206.9 |
| 55° | 5968.5 | 5960.4 | 5809.7 | 5536.8 | 5221.2 | 5051.2 | 5086.8 | 5323.0 | 5585.7 | 5725.2 | 5719.1 |
| 57.5° | 6590.6 | 6569.3 | 6450.1 | 6164.0 | 5848.4 | 5564.3 | 5603.0 | 5861.6 | 6130.4 | 6277.0 | 6272.0 |
| 60° | 7198.5 | 7169.0 | 7076.3 | 6862.5 | 6596.8 | 6267.9 | 6243.4 | 6490.9 | 6727.1 | 6863.5 | 6851.3 |
| 62.5° | 7829.8 | 7828.7 | 7753.4 | 7586.4 | 7444.9 | 7137.4 | 7018.3 | 7190.3 | 7399.1 | 7527.4 | 7520.2 |
| 65° | 8395.9 | 8399.9 | 8410.1 | 8415.2 | 8429.5 | 8266.6 | 7998.8 | 7975.4 | 8130.1 | 8206.5 | 8185.1 |
| 67.5° | 8406.1 | 8443.7 | 8621.9 | 8989.5 | 9497.5 | 9562.7 | 9039.4 | 8560.8 | 8383.7 | 8292.0 | 8280.8 |
| 70° | 7848.1 | 7893.9 | 8234.0 | 8982.3 | 10138.0 | 10498.4 | 9624.8 | 8473.2 | 8031.4 | 7798.2 | 7753.4 |
| 71° | 7538.6 | 7572.2 | 7964.2 | 8861.2 | 10207.2 | 10581.9 | 9701.2 | 8319.5 | 7785.0 | 7540.6 | 7489.7 |
| 72.5° | 6989.8 | 7020.3 | 7519.2 | 8538.4 | 10110.5 | 10454.6 | 9625.8 | 8024.2 | 7350.2 | 7050.9 | 6992.8 |
| 75° | 5918.6 | 5999.1 | 6485.8 | 7749.3 | 9535.2 | 9883.4 | 9112.7 | 7241.3 | 6399.2 | 5959.4 | 5916.6 |
| 77.5° | 4408.7 | 4548.2 | 5138.7 | 6538.7 | 8494.6 | 8956.9 | 8162.7 | 6093.8 | 5117.3 | 4633.7 | 4580.8 |
| 80° | 2489.4 | 2631.0 | 3439.4 | 4957.5 | 7118.1 | 7724.9 | 6779.0 | 4624.5 | 3636.9 | 3023.0 | 2955.8 |
| 82.5° | 921.4 | 891.9 | 1652.5 | 3121.7 | 5301.6 | 6040.8 | 4961.6 | 3014.8 | 2001.7 | 1387.8 | 1345.0 |
| 85° | 203.6 | 305.5 | 729.0 | 1573.1 | 3345.7 | 3923.0 | 2927.3 | 1520.1 | 775.8 | 400.1 | 373.7 |
| 87.5° | 56.0 | 99.8 | 250.5 | 659.8 | 1348.1 | 1528.3 | 1103.7 | 412.4 | 124.2 | 48.9 | 48.9 |
| 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)