

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: P286988

Luminaire Tested: **PRV-C40-D-UNV-T5-BZ-7030**

Issue Date: 3/4/2019

Test Information

Test Method: LM-79-08
Report Number: P286988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-10)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 3/4/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-C40-D-UNV-T5-BZ-7030
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K LEDS AND TYPE V OPTICS, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17932 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G4

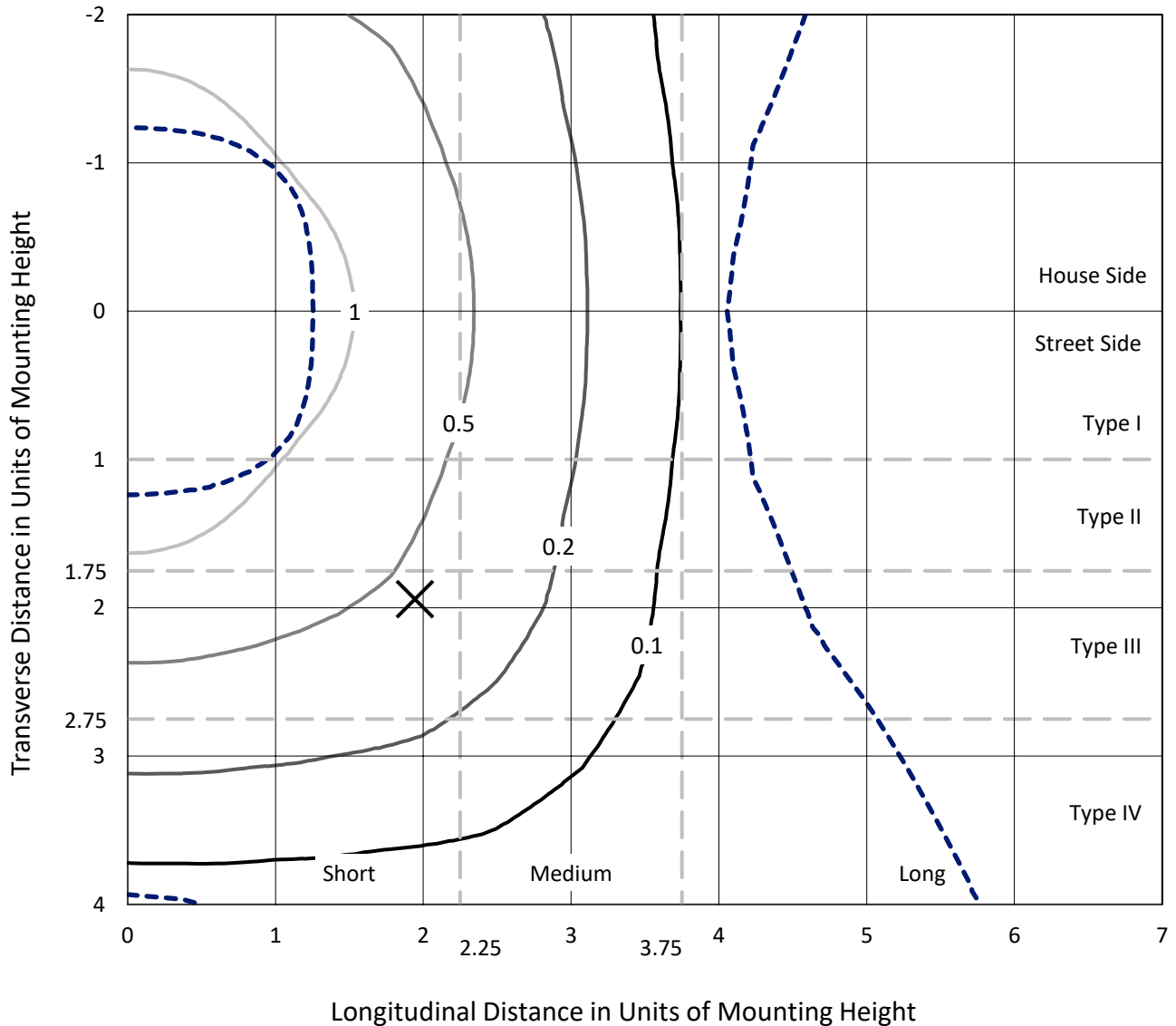
Input Watts (W): 131
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

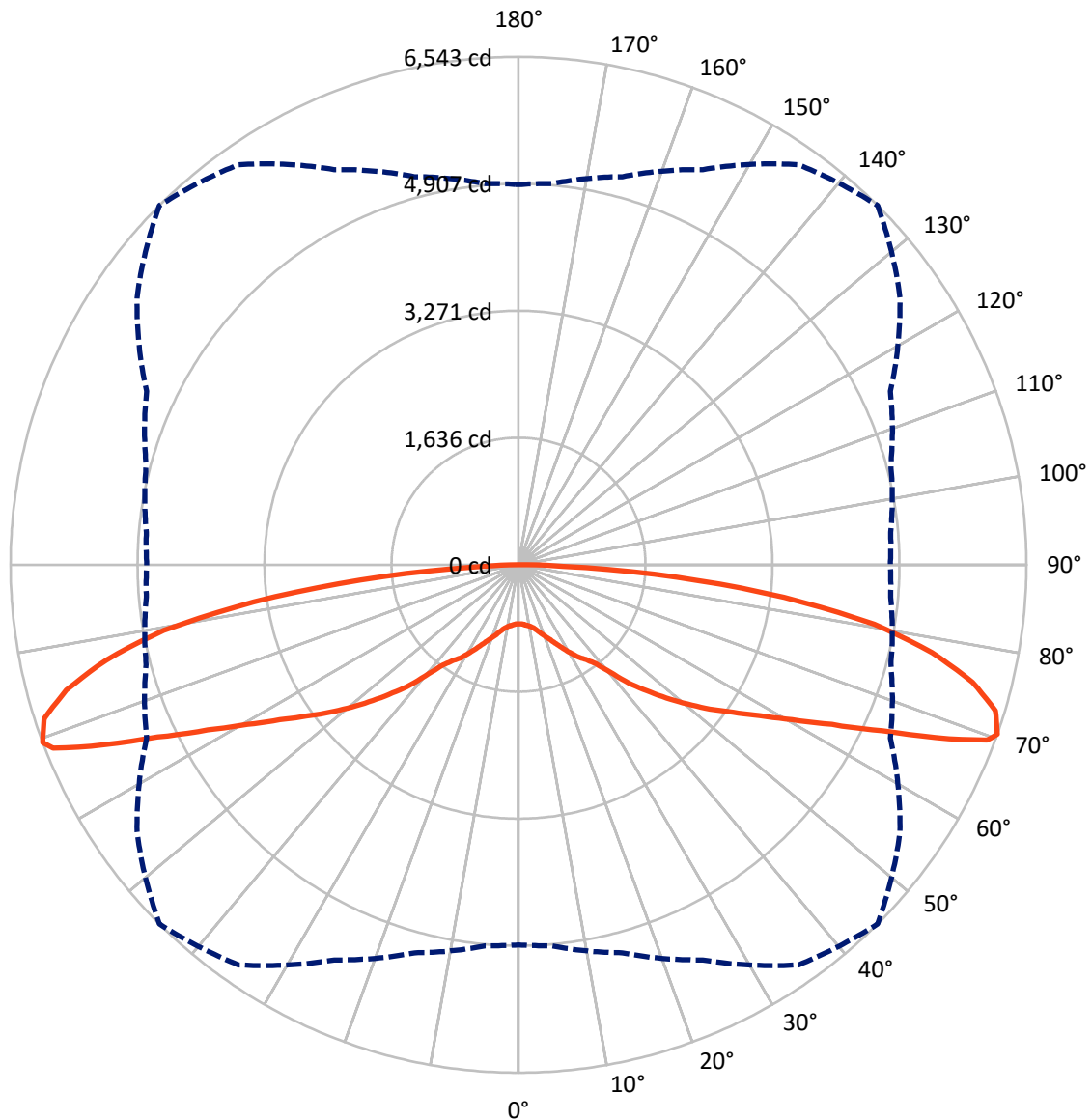
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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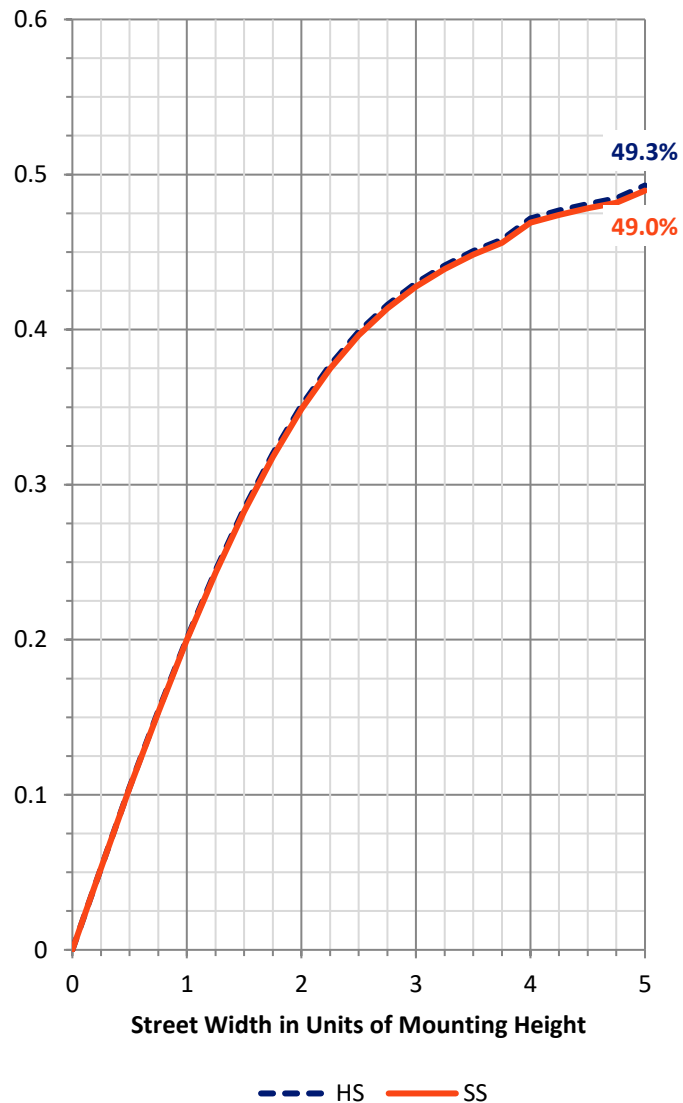
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8966.0 | 0.0 | 8966.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8966.0 | 0.0 | 8966.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 17932.0 | 0.0 | 17932.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 75.1 | 0.4 |
| 10°-20° | 250.1 | 1.4 |
| 20°-30° | 517.4 | 2.9 |
| 30°-40° | 947.9 | 5.3 |
| 40°-50° | 1877.2 | 10.5 |
| 50°-60° | 3216.7 | 17.9 |
| 60°-70° | 5064.7 | 28.2 |
| 70°-80° | 4733.2 | 26.4 |
| 80°-90° | 1249.8 | 7.0 |
| 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° | 17932.0 | 100.0 |
| 0°-180° | 17932.0 | 100.0 |

Coefficient of Utilization



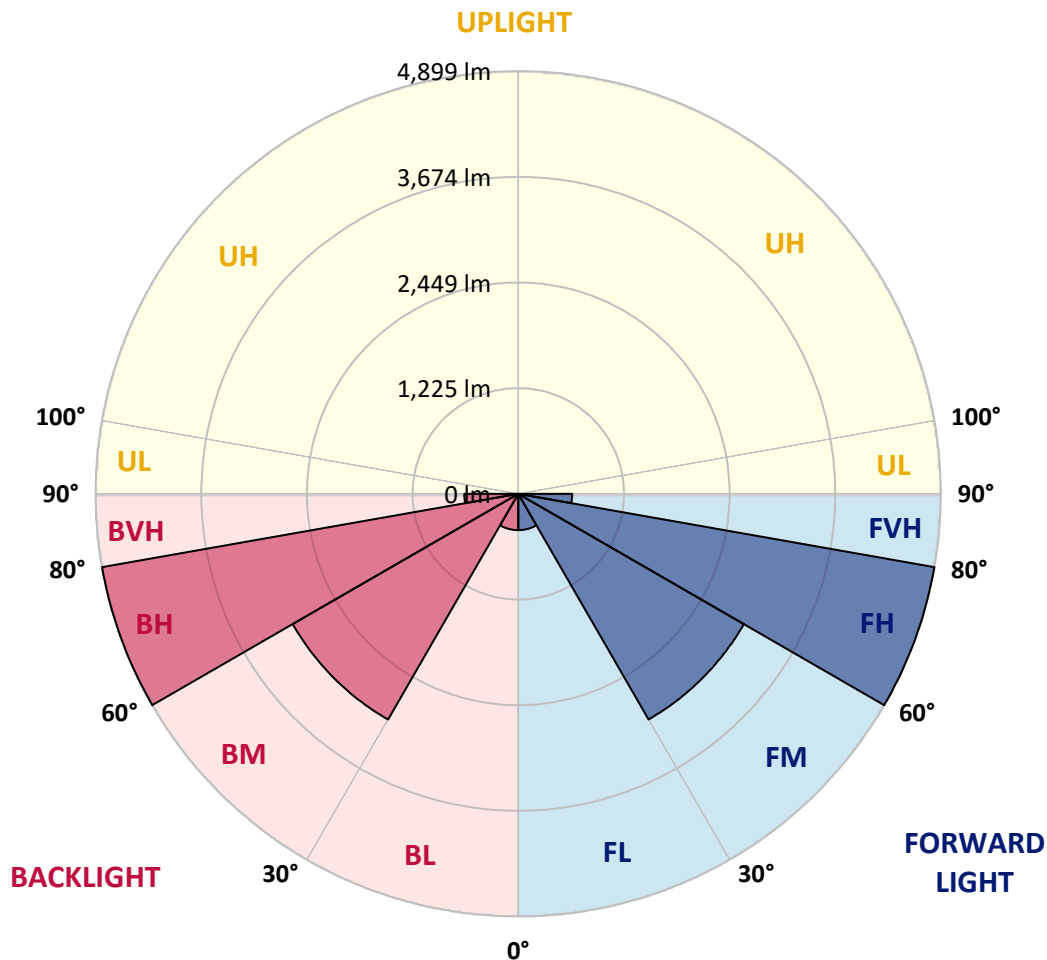
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 421.3 | 2.3 | | | |
| FM (30°-60°) | 3020.9 | 16.8 | | | |
| FH (60°-80°) | 4898.9 | 27.3 | | | G2/5000 |
| FVH (80°-90°) | 624.9 | 3.5 | | | G4/750 |
| BL (0°-30°) | 421.3 | 2.3 | B1/500 | | |
| BM (30°-60°) | 3020.9 | 16.8 | B3/5000 | | |
| BH (60°-80°) | 4898.9 | 27.3 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 624.9 | 3.5 | | | G4/750 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 762.8 | 762.8 | 762.8 | 762.8 | 762.8 | 762.8 | 762.8 | 762.8 | 762.8 | 762.8 | 762.8 |
| 2.5° | 773.5 | 774.3 | 772.7 | 764.5 | 763.6 | 761.2 | 760.3 | 763.6 | 763.6 | 763.6 | 762.0 |
| 5° | 787.5 | 785.0 | 780.1 | 776.8 | 775.1 | 773.5 | 771.0 | 776.0 | 777.6 | 780.1 | 773.5 |
| 7.5° | 796.5 | 796.5 | 795.7 | 790.0 | 792.4 | 787.5 | 783.4 | 787.5 | 790.8 | 789.1 | 788.3 |
| 10° | 814.6 | 816.3 | 813.0 | 807.2 | 812.2 | 803.1 | 797.4 | 800.7 | 799.8 | 799.0 | 800.7 |
| 12.5° | 839.3 | 841.0 | 836.9 | 831.9 | 838.5 | 830.3 | 824.5 | 823.7 | 822.1 | 821.2 | 818.8 |
| 15° | 873.1 | 873.9 | 870.6 | 866.5 | 876.4 | 871.4 | 868.1 | 857.4 | 857.4 | 855.0 | 855.8 |
| 17.5° | 913.4 | 917.5 | 915.0 | 915.0 | 930.7 | 927.4 | 913.4 | 901.0 | 905.2 | 899.4 | 899.4 |
| 20° | 966.1 | 964.4 | 966.9 | 971.0 | 989.1 | 984.2 | 969.3 | 952.1 | 957.0 | 951.2 | 950.4 |
| 22.5° | 1026.9 | 1027.8 | 1029.4 | 1032.7 | 1059.0 | 1050.0 | 1034.4 | 1020.4 | 1019.5 | 1016.3 | 1017.1 |
| 25° | 1098.5 | 1097.7 | 1092.8 | 1105.1 | 1134.7 | 1125.7 | 1106.8 | 1096.9 | 1098.5 | 1098.5 | 1099.4 |
| 27.5° | 1171.0 | 1165.2 | 1163.5 | 1164.4 | 1222.0 | 1217.0 | 1187.4 | 1169.3 | 1172.6 | 1179.2 | 1181.7 |
| 30° | 1243.4 | 1241.7 | 1237.6 | 1232.7 | 1298.5 | 1315.8 | 1263.1 | 1252.4 | 1256.5 | 1267.2 | 1269.7 |
| 32.5° | 1341.3 | 1337.2 | 1333.1 | 1320.7 | 1362.7 | 1417.0 | 1349.5 | 1352.0 | 1363.5 | 1380.0 | 1382.4 |
| 35° | 1449.9 | 1450.7 | 1439.2 | 1428.5 | 1452.4 | 1499.3 | 1466.4 | 1469.7 | 1495.2 | 1517.4 | 1523.1 |
| 37.5° | 1582.4 | 1584.9 | 1565.9 | 1543.7 | 1565.1 | 1614.5 | 1592.3 | 1626.8 | 1691.0 | 1727.2 | 1742.0 |
| 40° | 1805.4 | 1799.6 | 1771.7 | 1729.7 | 1749.4 | 1816.1 | 1840.0 | 1884.4 | 1973.3 | 2023.5 | 2042.4 |
| 42.5° | 2116.4 | 2105.7 | 2068.7 | 2024.3 | 2030.0 | 2087.6 | 2122.2 | 2208.6 | 2304.1 | 2355.9 | 2365.8 |
| 45° | 2413.5 | 2408.6 | 2367.4 | 2287.6 | 2263.7 | 2314.8 | 2358.4 | 2466.2 | 2569.8 | 2624.2 | 2646.4 |
| 47.5° | 2747.6 | 2743.5 | 2685.9 | 2583.0 | 2540.2 | 2563.3 | 2592.9 | 2717.1 | 2807.7 | 2866.9 | 2880.1 |
| 50° | 3105.5 | 3095.7 | 3033.9 | 2908.0 | 2828.2 | 2820.0 | 2853.7 | 2959.9 | 3064.4 | 3116.2 | 3112.1 |
| 52.5° | 3469.2 | 3465.1 | 3400.9 | 3246.2 | 3141.7 | 3088.3 | 3102.2 | 3192.8 | 3294.0 | 3359.8 | 3363.9 |
| 55° | 3845.3 | 3848.6 | 3776.2 | 3590.2 | 3447.9 | 3353.2 | 3345.0 | 3449.5 | 3550.7 | 3606.7 | 3622.3 |
| 57.5° | 4234.5 | 4235.3 | 4144.0 | 3972.8 | 3791.0 | 3666.7 | 3623.1 | 3739.2 | 3834.6 | 3884.8 | 3913.6 |
| 60° | 4597.4 | 4605.6 | 4529.9 | 4389.2 | 4215.6 | 4048.6 | 3977.8 | 4079.8 | 4178.6 | 4250.2 | 4251.0 |
| 62.5° | 5011.3 | 5005.6 | 4935.6 | 4821.2 | 4711.8 | 4530.8 | 4399.1 | 4506.9 | 4608.1 | 4672.3 | 4702.7 |
| 65° | 5407.9 | 5417.8 | 5401.4 | 5355.3 | 5291.9 | 5153.7 | 4983.3 | 5130.6 | 5198.1 | 5194.8 | 5224.4 |
| 67.5° | 5298.5 | 5343.8 | 5452.4 | 5685.3 | 5925.5 | 5983.1 | 5713.2 | 5392.3 | 5248.3 | 5157.8 | 5128.2 |
| 69° | 5085.4 | 5135.6 | 5328.1 | 5674.6 | 6188.0 | 6444.8 | 5932.9 | 5328.9 | 5106.8 | 4980.9 | 4954.5 |
| 70° | 4896.1 | 4926.6 | 5175.1 | 5616.1 | 6291.7 | 6542.7 | 5999.6 | 5285.3 | 4965.2 | 4812.2 | 4788.3 |
| 72.5° | 4315.2 | 4376.1 | 4651.7 | 5305.9 | 6220.9 | 6424.2 | 5974.9 | 4997.3 | 4562.8 | 4316.0 | 4289.7 |
| 75° | 3558.1 | 3619.8 | 3998.4 | 4737.3 | 5824.3 | 6042.4 | 5598.0 | 4480.6 | 3920.2 | 3681.5 | 3632.2 |
| 77.5° | 2535.3 | 2580.5 | 3020.8 | 3907.0 | 5151.2 | 5447.4 | 4967.7 | 3752.3 | 3149.1 | 2884.2 | 2820.8 |
| 80° | 1484.5 | 1502.6 | 1937.9 | 2783.0 | 4107.8 | 4646.8 | 4100.4 | 2911.3 | 2250.6 | 1959.3 | 1918.1 |
| 82.5° | 558.7 | 698.6 | 1030.2 | 1720.6 | 2803.5 | 3447.0 | 3023.2 | 1987.2 | 1343.8 | 1042.6 | 1004.7 |
| 85° | 170.3 | 232.9 | 440.2 | 852.5 | 1542.1 | 2044.8 | 1902.5 | 1102.7 | 557.9 | 318.5 | 278.1 |
| 87.5° | 29.6 | 37.9 | 101.2 | 274.0 | 569.4 | 575.2 | 446.0 | 202.4 | 40.3 | 14.8 | 14.0 |
| 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)