

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: P381186

Luminaire Tested: **PRV-XL-PA4A-730-U-T2R-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA4A-730-U-T2R-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 785mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24502 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

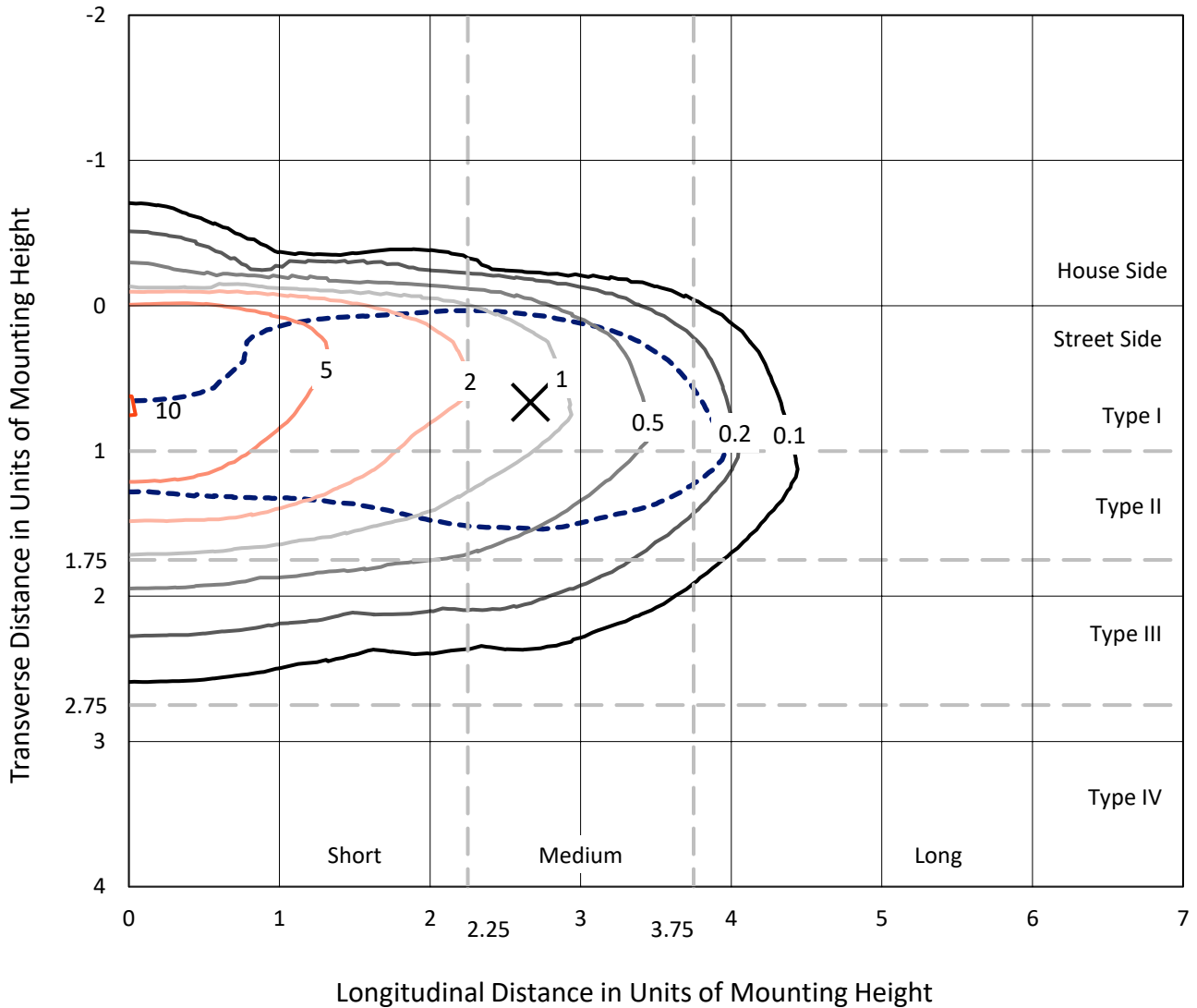
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

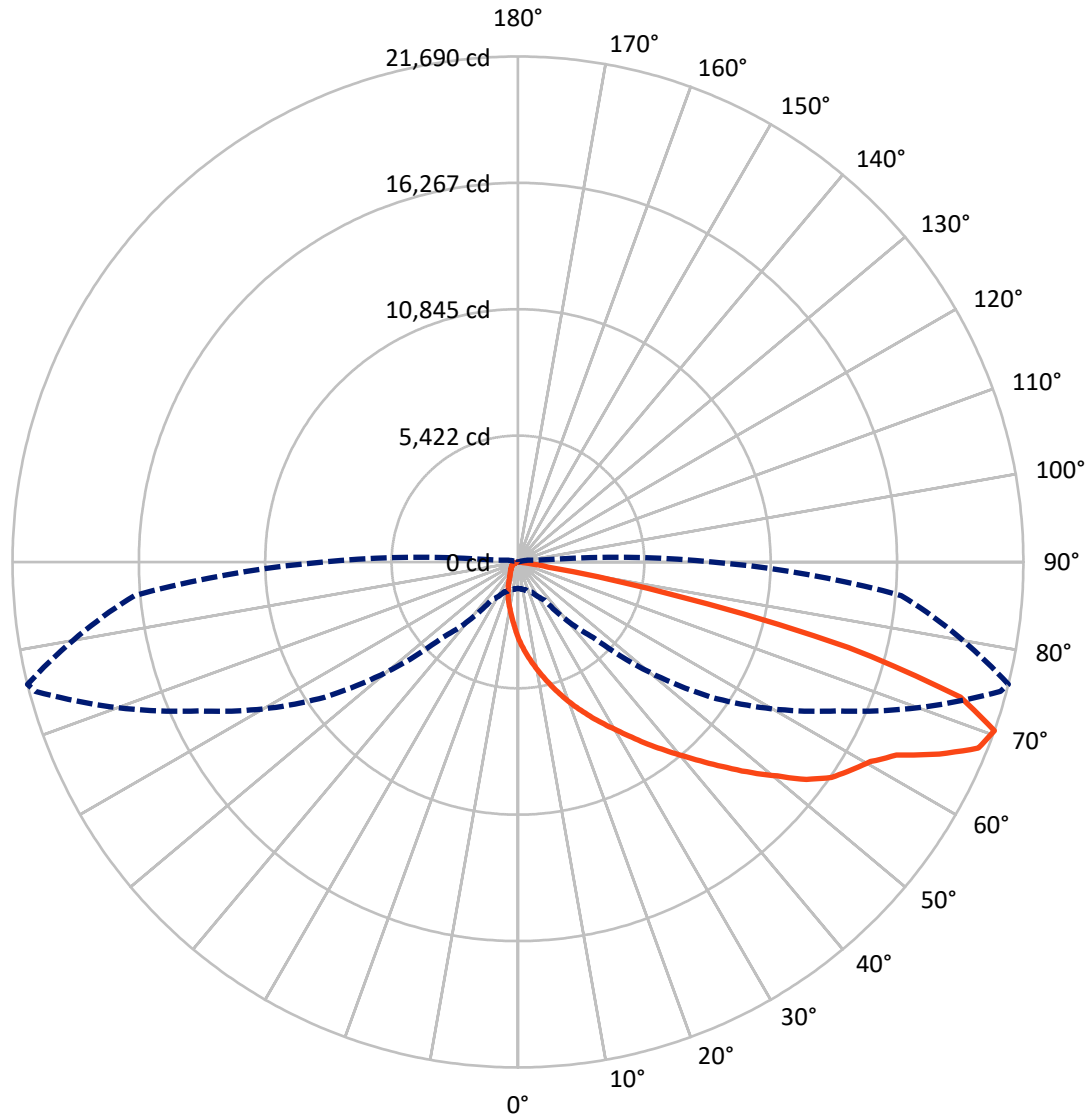
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 1155.6 | 0.0 | 1155.6 |
| | % Fixture | 4.7 | 0.0 | 4.7 |
| Street Side | Lumens | 23346.4 | 0.0 | 23346.4 |
| | % Fixture | 95.3 | 0.0 | 95.3 |
| Total | Lumens | 24502.0 | 0.0 | 24502.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 309.0 | 1.3 |
| 10°-20° | 997.2 | 4.1 |
| 20°-30° | 1857.2 | 7.6 |
| 30°-40° | 3284.9 | 13.4 |
| 40°-50° | 5023.5 | 20.5 |
| 50°-60° | 5695.4 | 23.2 |
| 60°-70° | 4882.4 | 19.9 |
| 70°-80° | 2364.7 | 9.7 |
| 80°-90° | 87.7 | 0.4 |
| 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° | 24502.0 | 100.0 |
| 0°-180° | 24502.0 | 100.0 |

Coefficient of Utilization

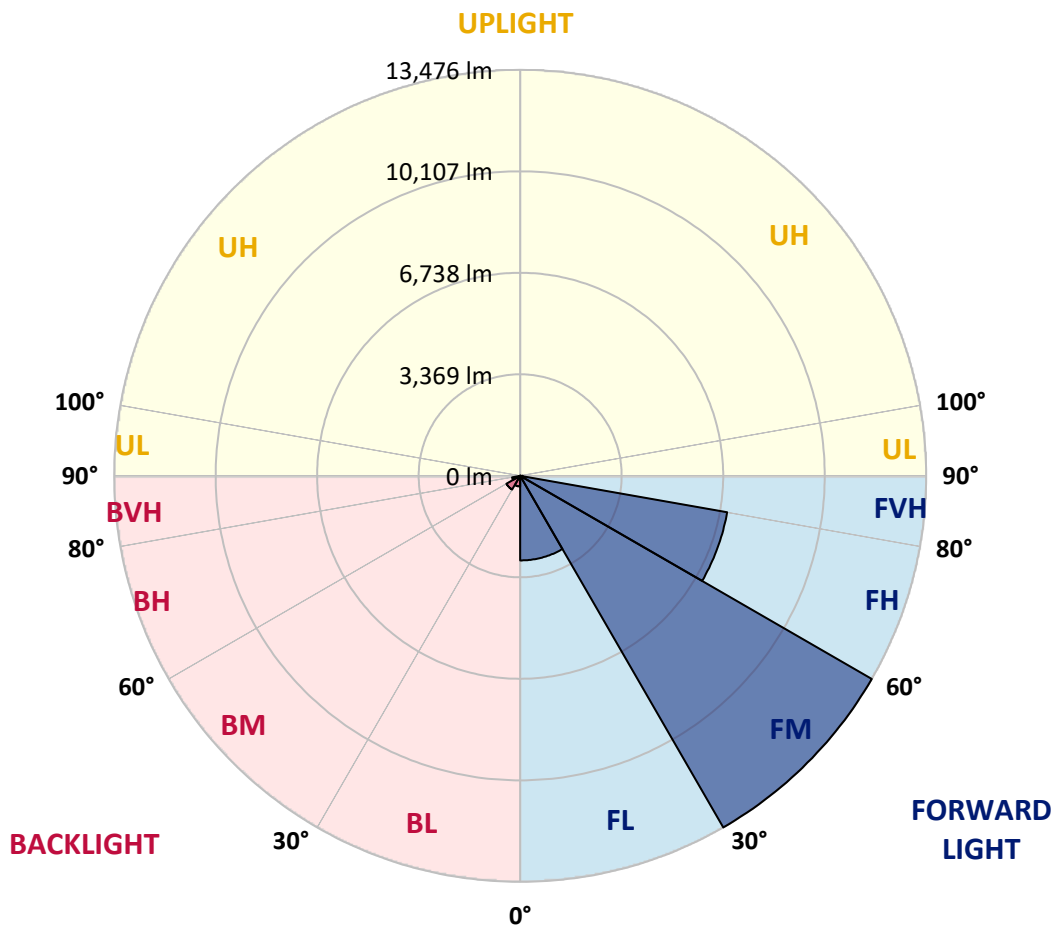


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2808.9 | 11.5 | | | |
| FM (30°-60°) | 13476.3 | 55.0 | | | |
| FH (60°-80°) | 6975.0 | 28.5 | | | G3/7500 |
| FVH (80°-90°) | 86.2 | 0.4 | | | G1/100 |
| BL (0°-30°) | 354.5 | 1.4 | B1/500 | | |
| BM (30°-60°) | 527.5 | 2.2 | B1/1000 | | |
| BH (60°-80°) | 272.1 | 1.1 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.5 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 76° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3279.8 | 3279.8 | 3279.8 | 3279.8 | 3279.8 | 3279.8 | 3279.8 | 3279.8 | 3279.8 | 3279.8 | 3279.8 |
| 2.5° | 4483.1 | 4458.7 | 4434.2 | 4340.4 | 4254.7 | 4177.2 | 4030.3 | 3838.6 | 3667.3 | 3630.6 | 3430.7 |
| 5° | 5266.4 | 5237.8 | 5201.1 | 5107.3 | 4997.1 | 4866.6 | 4650.4 | 4356.7 | 4054.8 | 3989.5 | 3618.3 |
| 7.5° | 5796.7 | 5772.2 | 5719.2 | 5674.3 | 5564.2 | 5437.7 | 5197.0 | 4854.4 | 4438.3 | 4356.7 | 3834.5 |
| 10° | 6159.7 | 6143.4 | 6135.3 | 6098.5 | 6017.0 | 5915.0 | 5674.3 | 5315.3 | 4825.8 | 4732.0 | 4063.0 |
| 12.5° | 6290.3 | 6290.3 | 6331.1 | 6392.2 | 6404.5 | 6371.9 | 6151.6 | 5792.6 | 5233.7 | 5135.8 | 4332.2 |
| 15° | 6114.9 | 6135.3 | 6225.0 | 6420.8 | 6624.8 | 6759.4 | 6620.7 | 6286.2 | 5682.5 | 5576.4 | 4650.4 |
| 17.5° | 6065.9 | 6086.3 | 6147.5 | 6318.8 | 6592.1 | 6951.1 | 7020.5 | 6763.5 | 6106.7 | 6017.0 | 4976.7 |
| 20° | 6204.6 | 6225.0 | 6278.0 | 6424.9 | 6632.9 | 6996.0 | 7285.6 | 7224.4 | 6555.4 | 6461.6 | 5307.2 |
| 22.5° | 6535.0 | 6547.3 | 6547.3 | 6661.5 | 6845.1 | 7114.3 | 7452.9 | 7660.9 | 7016.4 | 6914.4 | 5633.5 |
| 25° | 7244.8 | 7220.3 | 7122.4 | 7065.3 | 7183.6 | 7403.9 | 7665.0 | 8044.4 | 7530.4 | 7391.7 | 5984.3 |
| 27.5° | 8174.9 | 8256.5 | 8019.9 | 7746.6 | 7656.8 | 7783.3 | 7962.8 | 8382.9 | 8028.0 | 7881.2 | 6302.5 |
| 30° | 9435.4 | 9402.8 | 9092.7 | 8701.1 | 8313.6 | 8268.7 | 8329.9 | 8672.6 | 8525.7 | 8387.0 | 6657.4 |
| 32.5° | 10471.5 | 10532.7 | 10206.4 | 9729.1 | 9149.8 | 8876.5 | 8811.3 | 9019.3 | 9056.0 | 8966.3 | 7077.6 |
| 35° | 11536.2 | 11601.5 | 11283.3 | 10753.0 | 10063.6 | 9606.7 | 9419.1 | 9447.6 | 9712.8 | 9598.6 | 7518.1 |
| 37.5° | 12490.8 | 12547.9 | 12233.8 | 11691.2 | 11001.8 | 10443.0 | 10173.8 | 9953.5 | 10349.2 | 10247.2 | 7983.2 |
| 40° | 13216.9 | 13225.1 | 13012.9 | 12527.5 | 11874.8 | 11295.6 | 10989.6 | 10557.2 | 11022.2 | 10952.9 | 8468.6 |
| 42.5° | 13730.9 | 13747.2 | 13592.2 | 13176.1 | 12572.4 | 12033.9 | 11785.1 | 11271.1 | 11797.3 | 11736.1 | 9031.6 |
| 45° | 13971.6 | 14000.1 | 13983.8 | 13600.4 | 13098.6 | 12633.6 | 12552.0 | 12029.8 | 12645.8 | 12588.7 | 9680.2 |
| 47.5° | 13743.1 | 13743.1 | 13951.2 | 13898.1 | 13437.2 | 13127.2 | 13221.0 | 12821.2 | 13567.7 | 13514.7 | 10341.0 |
| 50° | 12792.7 | 12804.9 | 13229.1 | 13837.0 | 13567.7 | 13498.4 | 13792.1 | 13596.3 | 14404.0 | 14436.6 | 11132.4 |
| 52.5° | 10296.1 | 10275.7 | 11707.6 | 12874.2 | 13478.0 | 13665.6 | 14318.3 | 14387.7 | 15407.5 | 15505.4 | 11919.7 |
| 55° | 7693.5 | 7681.3 | 9051.9 | 11169.1 | 12849.8 | 13580.0 | 14612.0 | 15093.4 | 16264.1 | 16325.3 | 12507.1 |
| 57.5° | 6090.4 | 6057.7 | 6812.4 | 9003.0 | 11430.2 | 13196.5 | 14624.3 | 15228.0 | 16741.4 | 16847.5 | 13078.2 |
| 60° | 4683.0 | 4654.5 | 5217.4 | 6698.2 | 9419.1 | 12176.7 | 14273.4 | 15236.2 | 17202.4 | 17390.0 | 13845.1 |
| 62.5° | 3349.1 | 3381.7 | 3814.1 | 4805.4 | 7244.8 | 10736.7 | 13816.6 | 15350.4 | 18022.3 | 18234.4 | 14934.3 |
| 65° | 2259.9 | 2243.6 | 2602.6 | 3271.6 | 5152.1 | 8799.0 | 13114.9 | 15591.1 | 19499.0 | 19870.2 | 16239.7 |
| 67.5° | 1570.5 | 1582.8 | 1745.9 | 2129.4 | 3271.6 | 6755.3 | 11948.2 | 15725.7 | 21024.7 | 21314.3 | 17153.4 |
| 70° | 1134.0 | 1150.4 | 1240.1 | 1431.8 | 1998.9 | 4581.0 | 10100.3 | 15109.7 | 21436.7 | 21689.6 | 16517.0 |
| 72.5° | 746.5 | 779.1 | 913.8 | 1015.7 | 1276.8 | 2867.7 | 7440.6 | 13017.0 | 19662.2 | 19849.8 | 13857.4 |
| 75° | 403.8 | 412.0 | 587.4 | 758.7 | 909.7 | 1786.7 | 4438.3 | 8778.6 | 14709.9 | 14648.7 | 9137.6 |
| 77.5° | 314.1 | 326.3 | 363.1 | 542.5 | 611.9 | 983.1 | 1754.1 | 3965.1 | 6967.4 | 6779.8 | 3116.6 |
| 80° | 191.7 | 199.9 | 252.9 | 322.3 | 428.3 | 571.1 | 514.0 | 1076.9 | 1415.5 | 1325.8 | 456.9 |
| 82.5° | 114.2 | 122.4 | 150.9 | 269.2 | 338.6 | 269.2 | 179.5 | 261.1 | 265.2 | 261.1 | 114.2 |
| 85° | 20.4 | 20.4 | 106.1 | 187.6 | 179.5 | 77.5 | 106.1 | 85.7 | 77.5 | 81.6 | 24.5 |
| 87.5° | 0.0 | 0.0 | 40.8 | 57.1 | 81.6 | 28.6 | 40.8 | 20.4 | 20.4 | 20.4 | 12.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3279.8 | 3279.8 | 3279.8 | 3279.8 | 3279.8 | 3279.8 | 3279.8 | 3279.8 | 3279.8 | 3279.8 | 3279.8 |
| 2.5° | 3308.3 | 3169.6 | 2884.1 | 2635.2 | 2386.4 | 2202.8 | 2064.1 | 1921.3 | 1872.4 | 1811.2 | 1778.6 |
| 5° | 3365.4 | 3092.1 | 2525.1 | 2072.3 | 1688.8 | 1395.1 | 1207.5 | 1093.3 | 1019.8 | 966.8 | 954.6 |
| 7.5° | 3451.1 | 3030.9 | 2235.5 | 1623.6 | 1203.4 | 909.7 | 754.7 | 677.2 | 636.4 | 611.9 | 603.7 |
| 10° | 3553.1 | 2977.9 | 1949.9 | 1264.6 | 848.5 | 640.4 | 554.8 | 522.1 | 505.8 | 497.7 | 493.6 |
| 12.5° | 3695.8 | 2957.5 | 1709.2 | 975.0 | 640.4 | 526.2 | 481.4 | 461.0 | 448.7 | 436.5 | 432.4 |
| 15° | 3883.5 | 2965.6 | 1488.9 | 754.7 | 530.3 | 469.1 | 432.4 | 412.0 | 395.7 | 383.5 | 383.5 |
| 17.5° | 4079.3 | 2977.9 | 1272.7 | 611.9 | 481.4 | 428.3 | 387.5 | 359.0 | 346.7 | 334.5 | 330.4 |
| 20° | 4262.9 | 2973.8 | 1064.7 | 522.1 | 436.5 | 383.5 | 342.7 | 314.1 | 293.7 | 281.5 | 281.5 |
| 22.5° | 4438.3 | 2949.3 | 868.9 | 469.1 | 399.8 | 338.6 | 293.7 | 265.2 | 248.8 | 236.6 | 236.6 |
| 25° | 4625.9 | 2900.4 | 709.8 | 428.3 | 354.9 | 297.8 | 252.9 | 224.4 | 212.1 | 199.9 | 199.9 |
| 27.5° | 4772.8 | 2818.8 | 579.3 | 391.6 | 314.1 | 257.0 | 216.2 | 191.7 | 179.5 | 171.3 | 171.3 |
| 30° | 4931.9 | 2700.5 | 481.4 | 350.8 | 273.3 | 220.3 | 183.6 | 163.2 | 150.9 | 146.9 | 146.9 |
| 32.5° | 5107.3 | 2570.0 | 412.0 | 310.0 | 232.5 | 187.6 | 155.0 | 142.8 | 130.5 | 126.5 | 126.5 |
| 35° | 5311.2 | 2455.7 | 371.2 | 269.2 | 204.0 | 159.1 | 134.6 | 122.4 | 114.2 | 114.2 | 114.2 |
| 37.5° | 5543.8 | 2337.4 | 334.5 | 236.6 | 175.4 | 134.6 | 114.2 | 110.1 | 106.1 | 102.0 | 102.0 |
| 40° | 5796.7 | 2211.0 | 301.9 | 208.0 | 150.9 | 114.2 | 97.9 | 97.9 | 93.8 | 93.8 | 93.8 |
| 42.5° | 6082.2 | 2100.8 | 273.3 | 183.6 | 130.5 | 97.9 | 85.7 | 85.7 | 81.6 | 81.6 | 81.6 |
| 45° | 6392.2 | 1998.9 | 248.8 | 163.2 | 114.2 | 85.7 | 77.5 | 73.4 | 69.3 | 69.3 | 69.3 |
| 47.5° | 6759.4 | 1941.7 | 228.4 | 142.8 | 97.9 | 73.4 | 65.3 | 61.2 | 57.1 | 53.0 | 53.0 |
| 50° | 7228.5 | 1966.2 | 208.0 | 118.3 | 85.7 | 61.2 | 53.0 | 49.0 | 44.9 | 40.8 | 40.8 |
| 52.5° | 7599.7 | 1954.0 | 179.5 | 102.0 | 69.3 | 49.0 | 40.8 | 36.7 | 32.6 | 28.6 | 28.6 |
| 55° | 7869.0 | 1905.0 | 155.0 | 85.7 | 53.0 | 40.8 | 32.6 | 24.5 | 20.4 | 20.4 | 20.4 |
| 57.5° | 8134.1 | 1856.1 | 130.5 | 69.3 | 40.8 | 28.6 | 20.4 | 16.3 | 16.3 | 16.3 | 16.3 |
| 60° | 8546.1 | 1786.7 | 114.2 | 57.1 | 32.6 | 20.4 | 12.2 | 12.2 | 8.2 | 8.2 | 8.2 |
| 62.5° | 9047.9 | 1701.1 | 93.8 | 49.0 | 24.5 | 16.3 | 8.2 | 8.2 | 0.0 | 0.0 | 0.0 |
| 65° | 9598.6 | 1550.1 | 77.5 | 36.7 | 20.4 | 12.2 | 8.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 67.5° | 9472.1 | 1244.2 | 65.3 | 24.5 | 16.3 | 8.2 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 70° | 8378.9 | 840.3 | 53.0 | 20.4 | 12.2 | 8.2 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 72.5° | 6563.6 | 497.7 | 36.7 | 16.3 | 8.2 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 75° | 4201.7 | 248.8 | 24.5 | 12.2 | 8.2 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 77.5° | 1407.4 | 122.4 | 16.3 | 8.2 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 80° | 199.9 | 40.8 | 8.2 | 4.1 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 82.5° | 44.9 | 16.3 | 4.1 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 16.3 | 8.2 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 8.2 | 4.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)