

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: 766722_250MP

Luminaire Tested: **MPNK-X-76-250**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: 766722_250MP
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: MPNK-X-76-250
Description: 7H X 6V FLOOD
Light Source: 250 WATT PULSE-START CLEAR UNIVERSAL BURN
Ballast/Driver: -

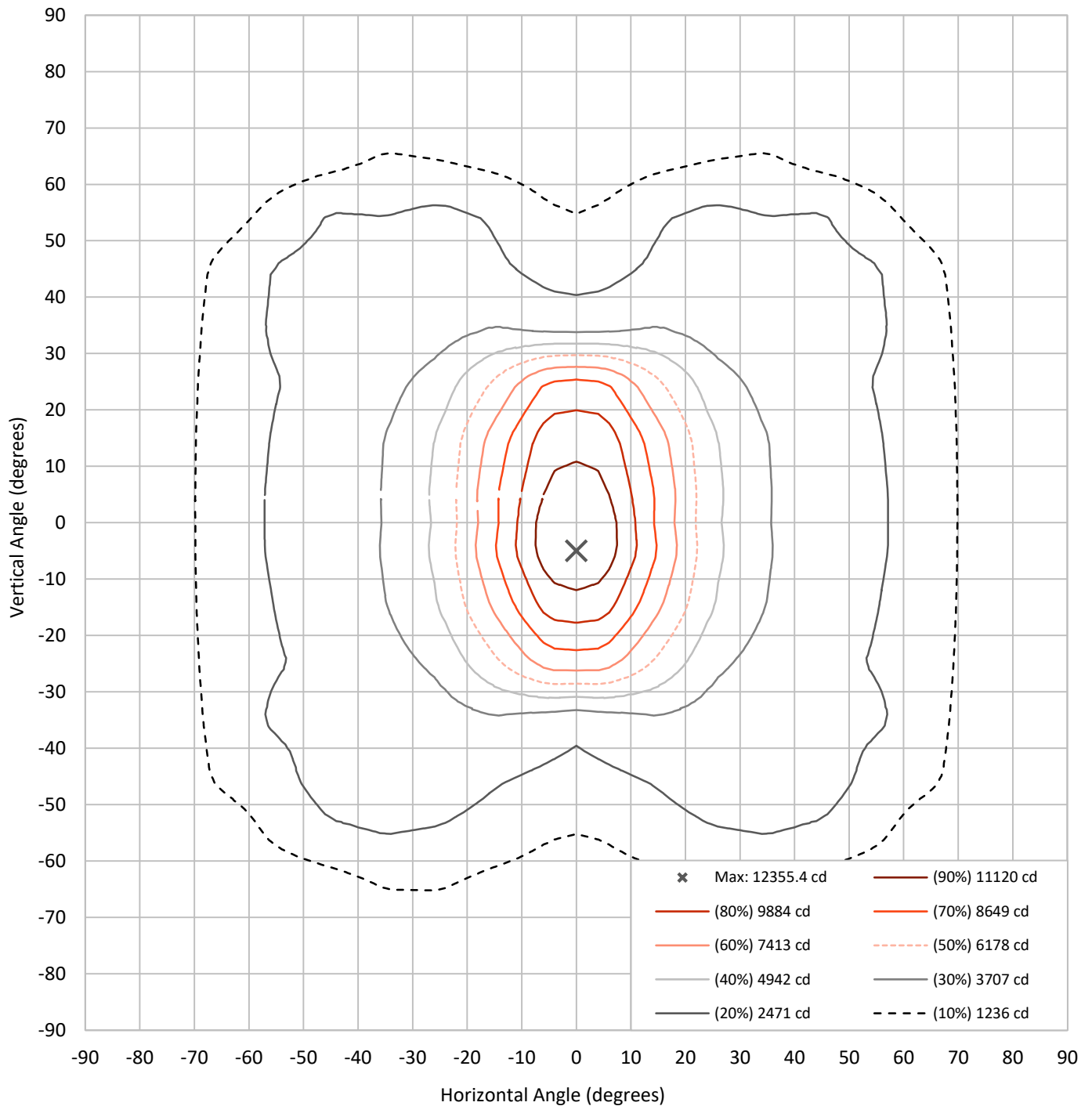
Summary

| | | | |
|-----------------------------------|-----------------------------|----------------------|-------------------|
| Lumens per Lamp: | 22000 (1 lamp) | NEMA Type: | 7H x 6V |
| Luminaire Lumens: | 15976.2 lumens | Max Intensity: | 12355.4 candela |
| Efficiency: | 72.6% | Max Intensity Angle: | 0°H x -5°V |
| Efficacy: | 56.5 lumens/watt | | |
| Luminous Opening: | Point Source (0' x 0' x 0') | | |
| Beam Angle (50%): | 44.5°H x 58.2°V | Field Angle (10%): | 139.6°H x 109.9°V |
| Beam Lumens: | 5516.5 lumens | Field Lumens: | 15264.1 lumens |
| Beam Efficiency: | 34.5% | Field Efficiency: | 95.5% |
| Input Watts (W): | 283 | | |
| 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: | 25 FT | | |



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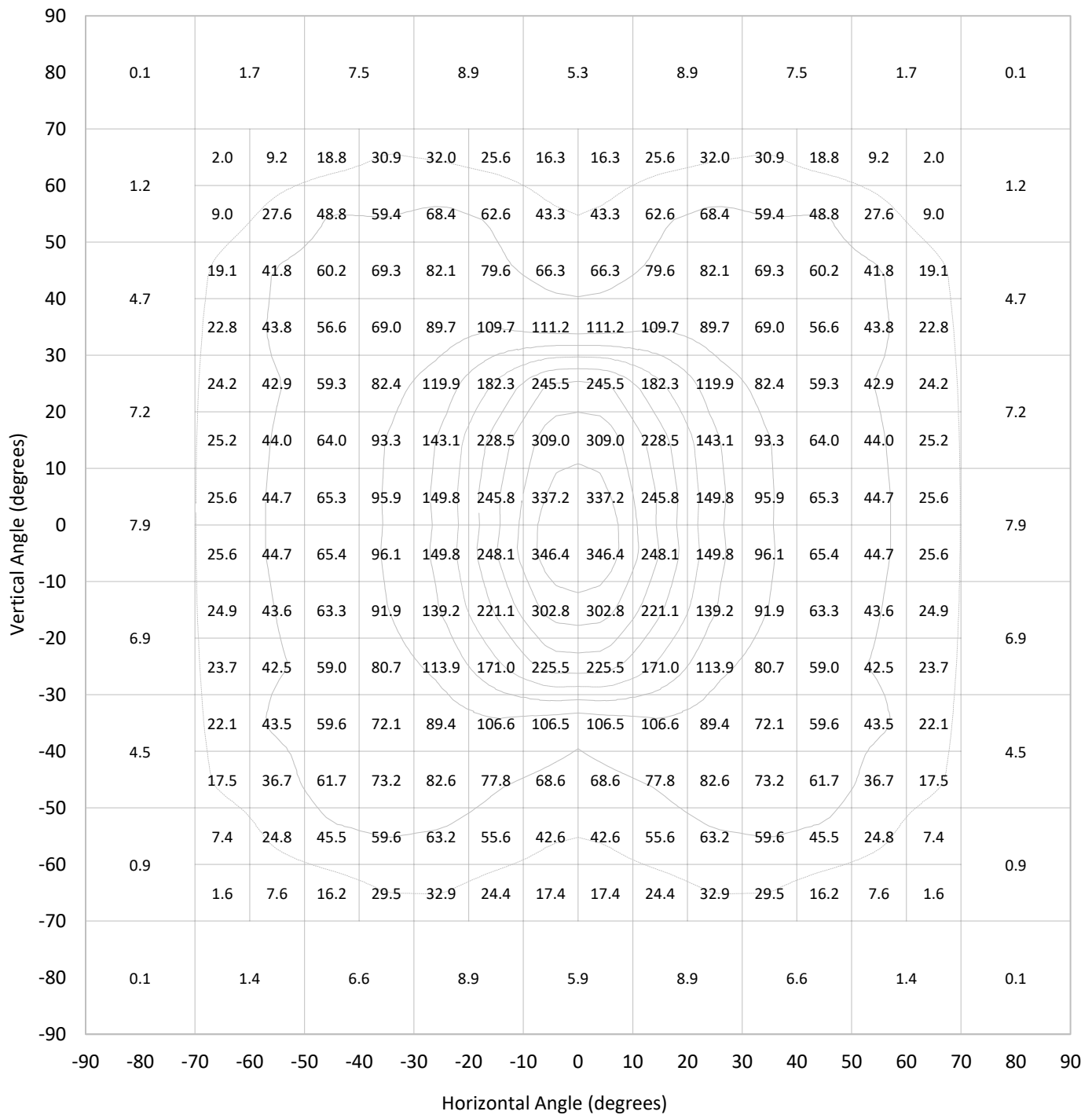
Iso-Candela Plot





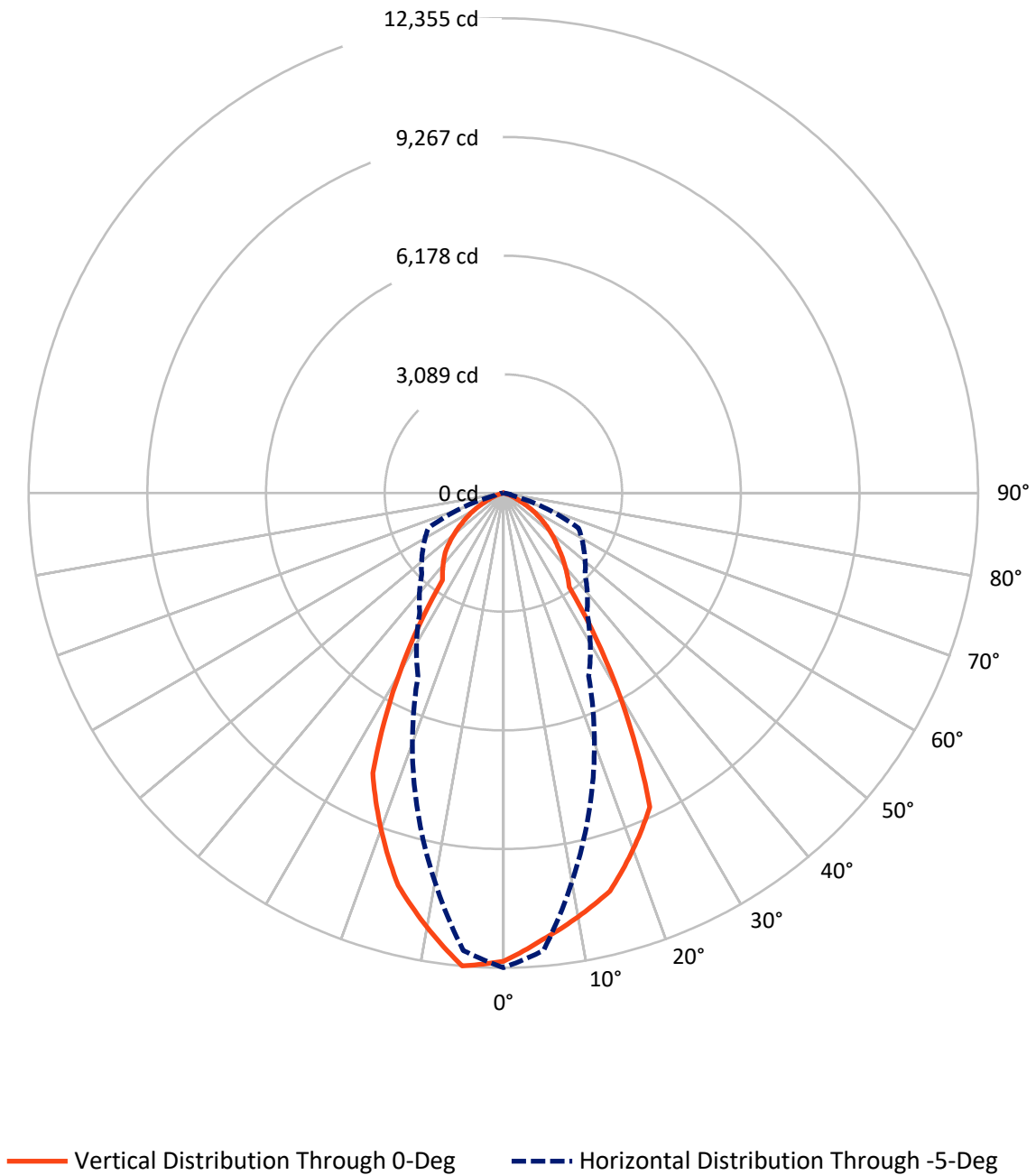
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Lumen Table



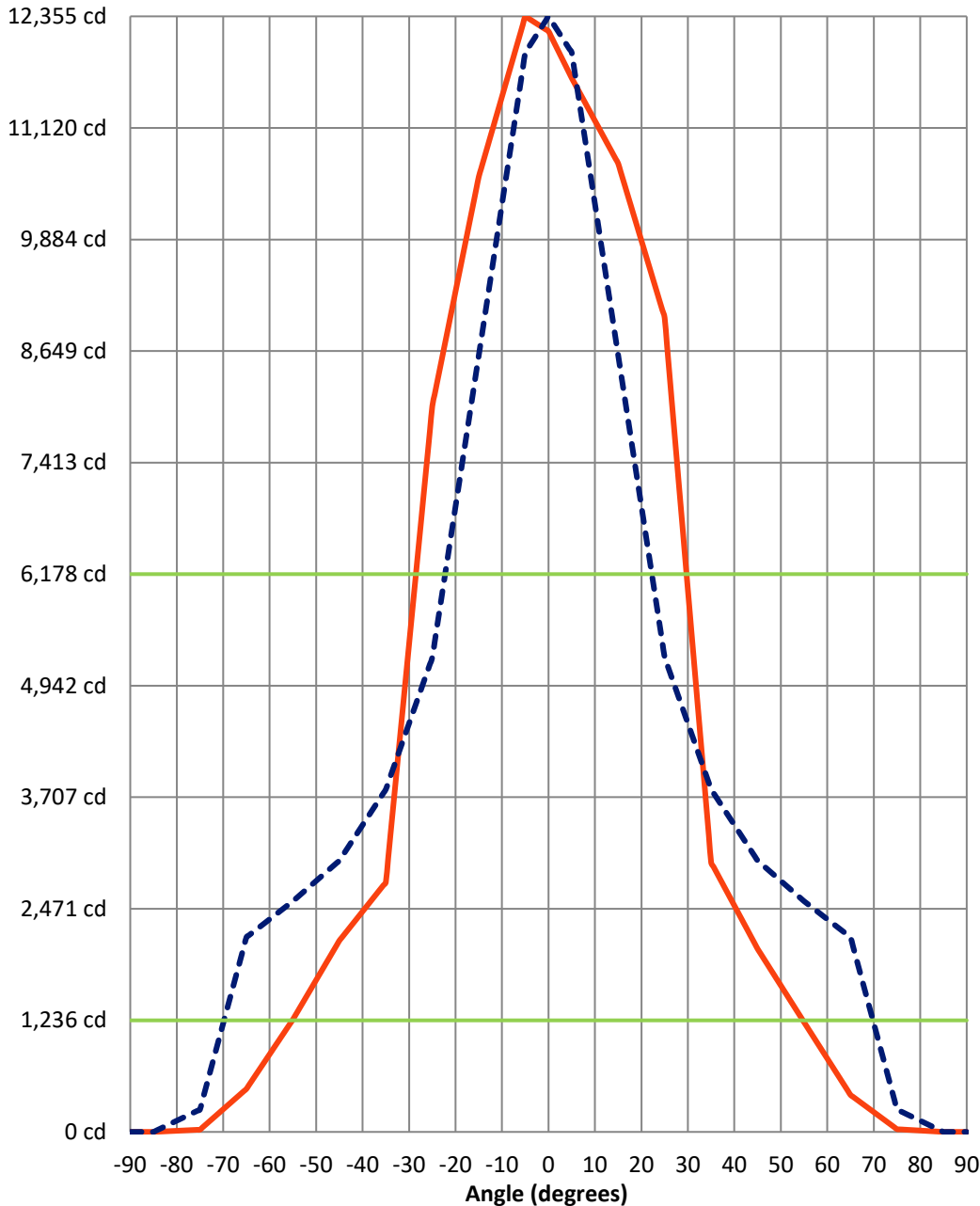
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Luminous Intensity Polar Plot



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Luminous Intensity Plot



Beam:
 H Angle: 44.5°
 V Angle: 58.2°
 Lumens: 5516.5
 Efficiency: 34.5%

Field:
 H Angle: 139.6°
 V Angle: 109.9°
 Lumens: 15264.1
 Efficiency: 95.5%

Spill:
 Lumens: 712
 Efficiency: 4.5%

- Vertical Distribution through 0-Deg
- - - Horizontal Distribution through -5-Deg



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FIELD
 BEAM

CANDELA DISTRIBUTION:

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|------|---------|---------|--------|--------|--------|--------|--------|--------|-------|-----|-----|
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 3.2 | 3.2 | 2.1 | 4.3 | 2.1 | 0.0 | 1.1 | 2.1 | 2.1 | 0.0 |
| 75° | 30.0 | 30.0 | 35.4 | 52.6 | 41.9 | 33.3 | 30.0 | 12.9 | 6.4 | 2.1 | 0.0 |
| 65° | 408.9 | 432.5 | 775.9 | 1123.6 | 1332.9 | 707.2 | 442.1 | 50.4 | 18.2 | 1.1 | 0.0 |
| 55° | 1214.8 | 1395.1 | 2347.0 | 2693.7 | 2457.6 | 2533.8 | 1618.3 | 574.1 | 30.0 | 0.0 | 0.0 |
| 45° | 2027.2 | 2104.5 | 2674.3 | 3111.1 | 2782.7 | 2974.8 | 2559.5 | 1630.1 | 44.0 | 1.1 | 0.0 |
| 35° | 2985.6 | 3056.4 | 3602.6 | 3098.2 | 2606.7 | 2556.3 | 2614.2 | 1899.5 | 70.8 | 0.0 | 0.0 |
| 25° | 9016.8 | 8829.0 | 6313.5 | 4261.6 | 3274.2 | 2701.2 | 2445.8 | 2042.2 | 182.4 | 0.0 | 0.0 |
| 15° | 10725.3 | 10633.0 | 7899.6 | 5086.8 | 3705.7 | 2957.7 | 2518.7 | 2122.7 | 238.2 | 0.0 | 0.0 |
| 5° | 11671.8 | 11404.6 | 8452.3 | 5243.5 | 3767.9 | 2993.1 | 2555.2 | 2157.1 | 256.5 | 0.0 | 0.0 |
| 0° | 12191.2 | 11974.4 | 8371.8 | 5173.8 | 3750.7 | 2987.7 | 2555.2 | 2158.1 | 250.0 | 0.0 | 0.0 |
| -5° | 12355.4 | 11954.0 | 8600.4 | 5255.3 | 3793.7 | 3004.9 | 2555.2 | 2156.0 | 247.9 | 0.0 | 0.0 |
| -15° | 10579.3 | 10394.7 | 7580.9 | 4946.2 | 3650.9 | 2922.2 | 2487.6 | 2106.6 | 218.9 | 1.1 | 0.0 |
| -25° | 8039.1 | 7985.5 | 5893.9 | 3990.0 | 3183.0 | 2666.8 | 2414.6 | 1997.2 | 158.8 | 2.1 | 0.0 |
| -35° | 2765.6 | 3012.4 | 3526.4 | 3106.8 | 2773.1 | 2757.0 | 2650.7 | 1834.0 | 70.8 | 2.1 | 0.0 |
| -45° | 2118.4 | 2279.4 | 2606.7 | 3177.7 | 2992.0 | 3147.6 | 2043.3 | 1540.0 | 44.0 | 3.2 | 0.0 |
| -55° | 1244.9 | 1355.4 | 1988.6 | 2368.5 | 2544.5 | 2268.7 | 1515.3 | 406.7 | 25.8 | 3.2 | 0.0 |
| -65° | 476.5 | 503.3 | 737.3 | 1268.5 | 1234.1 | 572.0 | 335.9 | 39.7 | 11.8 | 3.2 | 0.0 |
| -75° | 24.7 | 36.5 | 38.6 | 38.6 | 35.4 | 27.9 | 26.8 | 14.0 | 3.2 | 4.3 | 0.0 |
| -85° | 0.0 | 3.2 | 3.2 | 0.0 | 0.0 | 2.1 | 1.1 | 0.0 | 3.2 | 5.4 | 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)