

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: P395140

Luminaire Tested: **LAS100S-T5-Switch-6**

Issue Date: 5/3/2020

Test Information

Test Method: LM-79-08
Report Number: P395140
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2004-740-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LAS100S-T5-Switch-6
Description: AREA SITE LARGE HOUSING, TYPE V, WATTAGE SWITCH ON POSTION 6
Light Source: (288) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19398 lumens
Efficiency: N/A
Efficacy: 157.2 lumens/watt
Luminous Opening: Rectangular (W 0.88' x L: 1.29' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

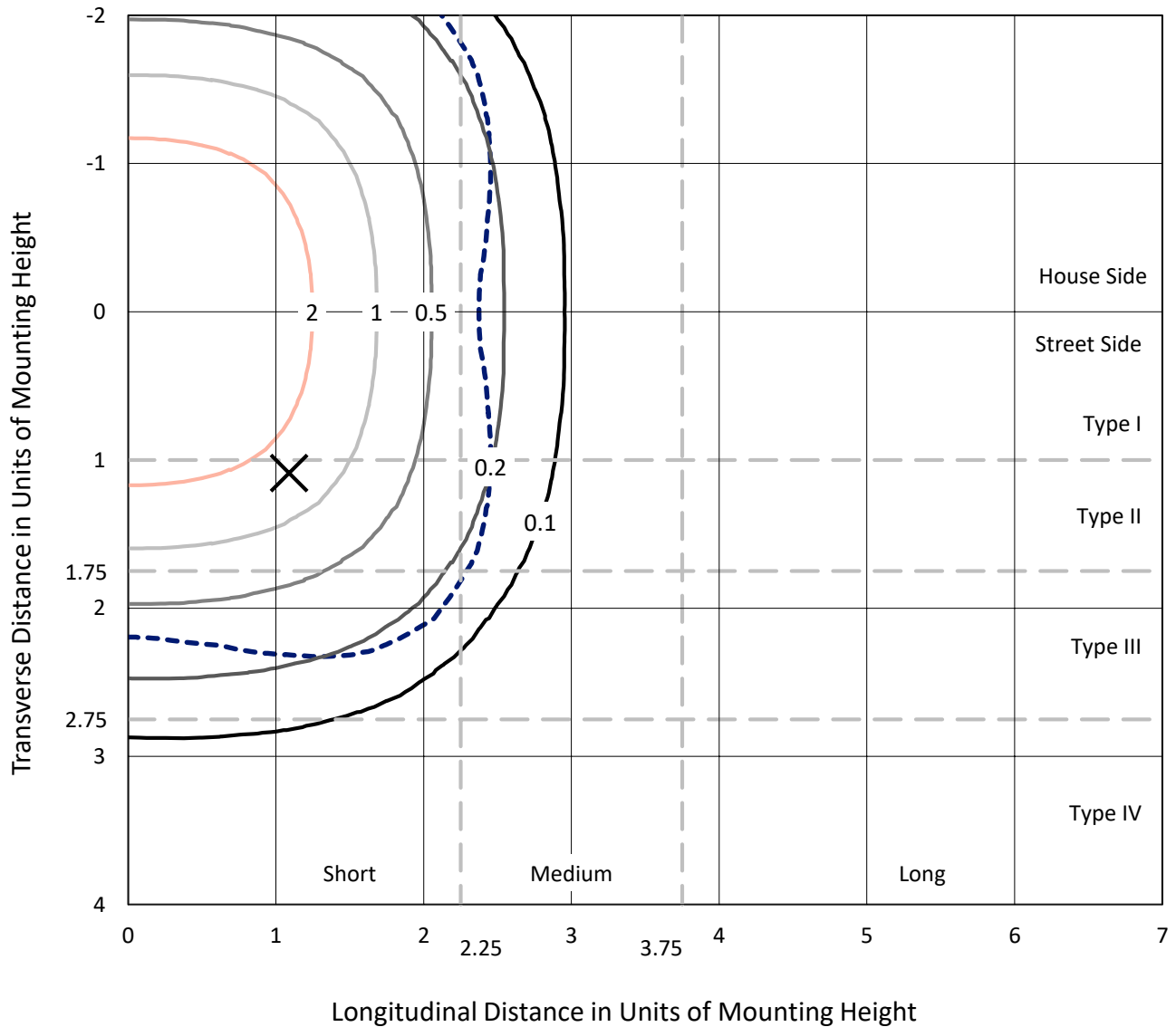
Input Watts (W): 123.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P395140
 CATALOG NUMBER: LAS100S-T5-Switch-6

Iso-Footcandle Lines of Horizontal Illumination

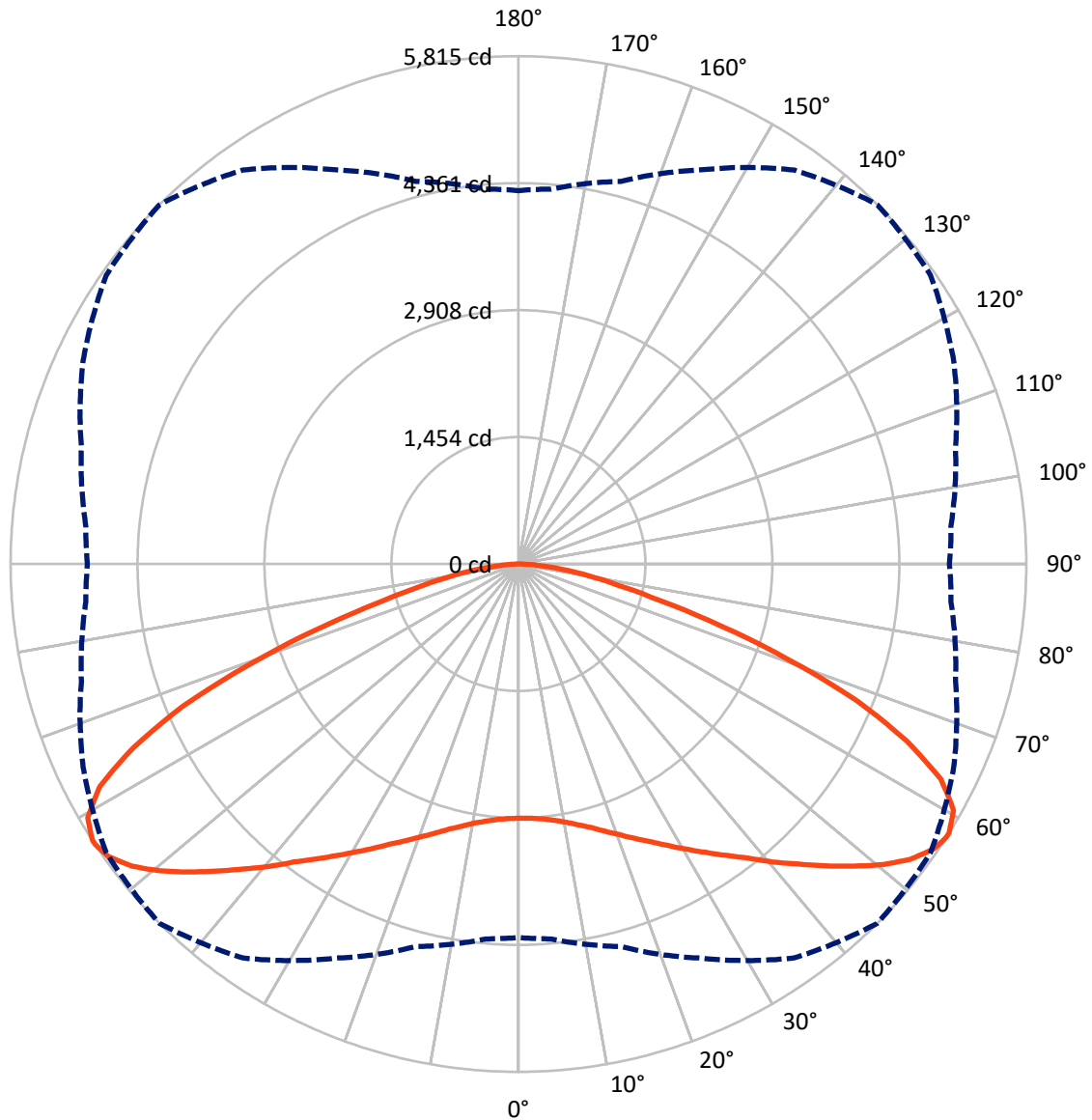
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P395140
CATALOG NUMBER: LAS100S-T5-Switch-6

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P395140

CATALOG NUMBER: LAS100S-T5-Switch-6

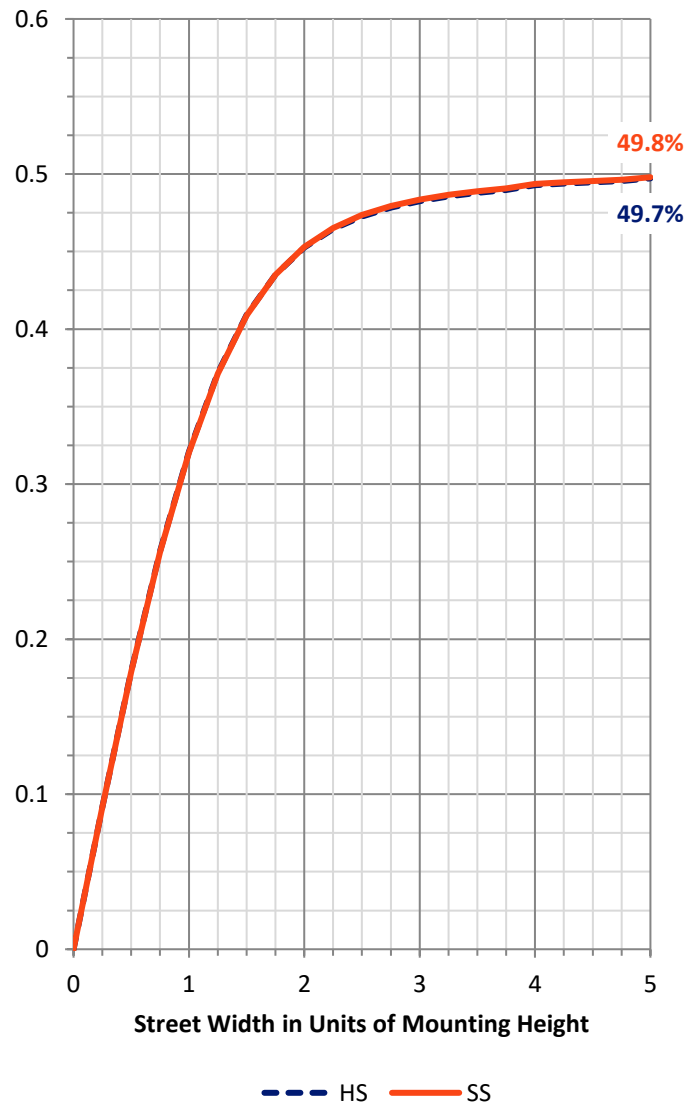
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9699.0 | 0.0 | 9699.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9699.0 | 0.0 | 9699.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 19398.0 | 0.0 | 19398.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 282.3 | 1.5 |
| 10°-20° | 892.5 | 4.6 |
| 20°-30° | 1627.6 | 8.4 |
| 30°-40° | 2551.7 | 13.2 |
| 40°-50° | 3699.8 | 19.1 |
| 50°-60° | 4620.6 | 23.8 |
| 60°-70° | 3856.5 | 19.9 |
| 70°-80° | 1568.4 | 8.1 |
| 80°-90° | 298.6 | 1.5 |
| 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° | 19398.0 | 100.0 |
| 0°-180° | 19398.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P395140

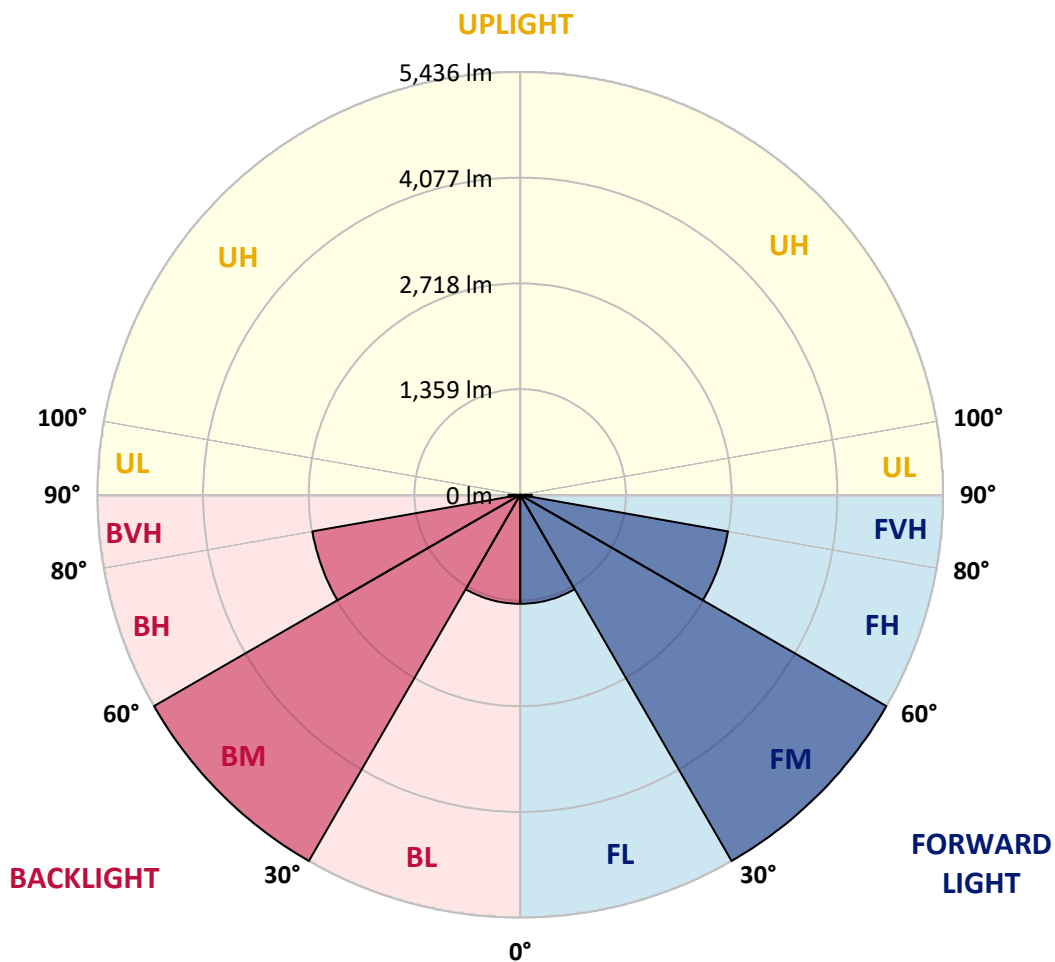
CATALOG NUMBER: LAS100S-T5-Switch-6

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1401.2 | 7.2 | | | |
| FM | (30°-60°) | 5436.1 | 28.0 | | | |
| FH | (60°-80°) | 2712.5 | 14.0 | | | G2/5000 |
| FVH | (80°-90°) | 149.3 | 0.8 | | | G2/225 |
| BL | (0°-30°) | 1401.2 | 7.2 | B3/2500 | | |
| BM | (30°-60°) | 5436.1 | 28.0 | B4/8500 | | |
| BH | (60°-80°) | 2712.5 | 14.0 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 149.3 | 0.8 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





REPORT NUMBER: P395140

CATALOG NUMBER: LAS100S-T5-Switch-6

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2910.2 | 2910.2 | 2910.2 | 2910.2 | 2910.2 | 2910.2 | 2910.2 | 2910.2 | 2910.2 | 2910.2 | 2910.2 |
| 2.5° | 2917.5 | 2916.3 | 2917.5 | 2915.8 | 2915.8 | 2915.2 | 2914.7 | 2912.4 | 2913.5 | 2915.2 | 2914.1 |
| 5° | 2936.6 | 2936.0 | 2936.6 | 2934.9 | 2934.3 | 2932.1 | 2932.1 | 2930.4 | 2929.8 | 2932.1 | 2930.9 |
| 7.5° | 2966.3 | 2966.3 | 2967.4 | 2966.3 | 2965.7 | 2963.5 | 2961.2 | 2960.7 | 2960.1 | 2961.2 | 2959.6 |
| 10° | 3007.8 | 3008.4 | 3011.7 | 3010.6 | 3010.1 | 3006.1 | 3005.0 | 3003.3 | 3002.2 | 3002.2 | 3002.8 |
| 12.5° | 3061.1 | 3063.4 | 3062.8 | 3065.6 | 3066.7 | 3065.6 | 3061.1 | 3055.0 | 3055.5 | 3051.0 | 3051.0 |
| 15° | 3125.7 | 3126.2 | 3129.0 | 3132.4 | 3135.2 | 3131.8 | 3126.2 | 3120.1 | 3116.7 | 3115.0 | 3114.4 |
| 17.5° | 3198.1 | 3201.4 | 3203.1 | 3208.2 | 3214.9 | 3218.3 | 3206.5 | 3196.4 | 3189.1 | 3182.9 | 3183.5 |
| 20° | 3276.6 | 3281.7 | 3288.4 | 3296.3 | 3305.2 | 3309.7 | 3300.2 | 3285.0 | 3271.6 | 3264.8 | 3262.6 |
| 22.5° | 3366.4 | 3368.1 | 3378.2 | 3393.3 | 3407.4 | 3413.0 | 3404.0 | 3386.6 | 3372.0 | 3363.0 | 3362.5 |
| 25° | 3466.3 | 3464.6 | 3480.3 | 3499.4 | 3521.3 | 3523.5 | 3516.2 | 3499.4 | 3483.7 | 3469.1 | 3468.0 |
| 27.5° | 3567.9 | 3568.4 | 3588.1 | 3611.1 | 3638.0 | 3650.9 | 3643.1 | 3629.0 | 3605.5 | 3587.5 | 3585.8 |
| 30° | 3677.3 | 3675.6 | 3701.4 | 3733.4 | 3768.2 | 3789.5 | 3781.7 | 3769.3 | 3743.5 | 3727.2 | 3725.5 |
| 32.5° | 3783.9 | 3791.8 | 3817.6 | 3861.9 | 3904.6 | 3936.0 | 3937.7 | 3927.0 | 3900.1 | 3883.8 | 3877.1 |
| 35° | 3905.7 | 3909.6 | 3945.0 | 4002.8 | 4059.4 | 4098.7 | 4103.8 | 4096.5 | 4076.8 | 4052.7 | 4061.1 |
| 37.5° | 4026.9 | 4028.0 | 4074.0 | 4149.8 | 4225.0 | 4271.0 | 4295.7 | 4289.5 | 4268.2 | 4251.4 | 4249.1 |
| 40° | 4155.4 | 4161.6 | 4218.8 | 4304.7 | 4408.5 | 4487.0 | 4512.9 | 4512.9 | 4483.1 | 4467.4 | 4449.4 |
| 42.5° | 4287.8 | 4291.8 | 4359.7 | 4475.3 | 4602.1 | 4696.9 | 4732.8 | 4730.6 | 4693.0 | 4657.6 | 4652.0 |
| 45° | 4418.0 | 4423.1 | 4501.6 | 4647.5 | 4813.1 | 4930.4 | 4979.7 | 4960.1 | 4896.1 | 4843.9 | 4838.3 |
| 47.5° | 4516.8 | 4531.9 | 4627.3 | 4817.6 | 5028.0 | 5169.4 | 5222.2 | 5172.2 | 5065.6 | 4996.0 | 4979.7 |
| 50° | 4575.7 | 4593.7 | 4721.0 | 4963.5 | 5232.8 | 5408.5 | 5444.4 | 5346.2 | 5199.1 | 5096.5 | 5080.7 |
| 52.5° | 4562.2 | 4583.6 | 4748.0 | 5060.5 | 5404.5 | 5616.7 | 5619.5 | 5470.8 | 5273.8 | 5138.5 | 5119.5 |
| 55° | 4450.6 | 4475.3 | 4677.3 | 5069.5 | 5512.3 | 5766.5 | 5736.2 | 5530.2 | 5266.5 | 5096.5 | 5067.8 |
| 57° | 4276.0 | 4309.1 | 4534.7 | 4980.3 | 5506.1 | 5815.3 | 5761.4 | 5499.9 | 5181.2 | 4972.4 | 4935.4 |
| 57.5° | 4229.5 | 4260.3 | 4483.1 | 4947.7 | 5496.0 | 5814.7 | 5756.4 | 5483.1 | 5145.8 | 4928.7 | 4897.8 |
| 60° | 3882.7 | 3928.1 | 4183.4 | 4681.8 | 5314.7 | 5723.3 | 5643.6 | 5291.7 | 4868.1 | 4600.4 | 4547.6 |
| 62.5° | 3474.1 | 3512.3 | 3765.9 | 4294.0 | 4942.7 | 5429.8 | 5361.3 | 4900.6 | 4409.0 | 4109.4 | 4070.7 |
| 65° | 3013.4 | 3026.3 | 3278.9 | 3743.5 | 4400.1 | 4886.0 | 4836.1 | 4329.4 | 3801.3 | 3497.7 | 3452.8 |
| 67.5° | 2466.9 | 2511.8 | 2731.2 | 3175.0 | 3757.5 | 4182.3 | 4126.2 | 3594.2 | 3138.6 | 2832.2 | 2814.8 |
| 70° | 1936.6 | 1967.4 | 2157.1 | 2547.7 | 3016.2 | 3289.0 | 3177.9 | 2788.4 | 2420.3 | 2186.8 | 2163.3 |
| 72.5° | 1382.7 | 1446.1 | 1635.2 | 1939.9 | 2288.4 | 2427.0 | 2298.0 | 2094.3 | 1792.3 | 1652.6 | 1630.2 |
| 75° | 918.1 | 939.4 | 1174.5 | 1420.9 | 1649.8 | 1670.0 | 1611.1 | 1478.1 | 1336.1 | 1209.3 | 1200.9 |
| 77.5° | 625.7 | 645.3 | 830.0 | 1044.9 | 1147.6 | 1165.0 | 1088.7 | 1051.1 | 982.0 | 836.7 | 794.6 |
| 80° | 404.6 | 428.2 | 572.9 | 763.2 | 824.3 | 810.9 | 753.6 | 730.6 | 695.8 | 540.4 | 498.9 |
| 82.5° | 263.7 | 275.5 | 378.8 | 515.1 | 558.4 | 511.8 | 466.9 | 502.2 | 481.5 | 335.6 | 319.3 |
| 85° | 134.7 | 140.3 | 195.8 | 273.3 | 301.9 | 263.7 | 245.2 | 295.7 | 272.2 | 191.9 | 175.6 |
| 87.5° | 31.4 | 35.4 | 50.5 | 71.3 | 76.9 | 74.1 | 74.6 | 98.2 | 90.3 | 68.5 | 62.8 |
| 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)