

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: McGRAW-EDISON

Report Number: P530692

Luminaire Tested: **GALN-SA6A-722-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-722-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17596 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

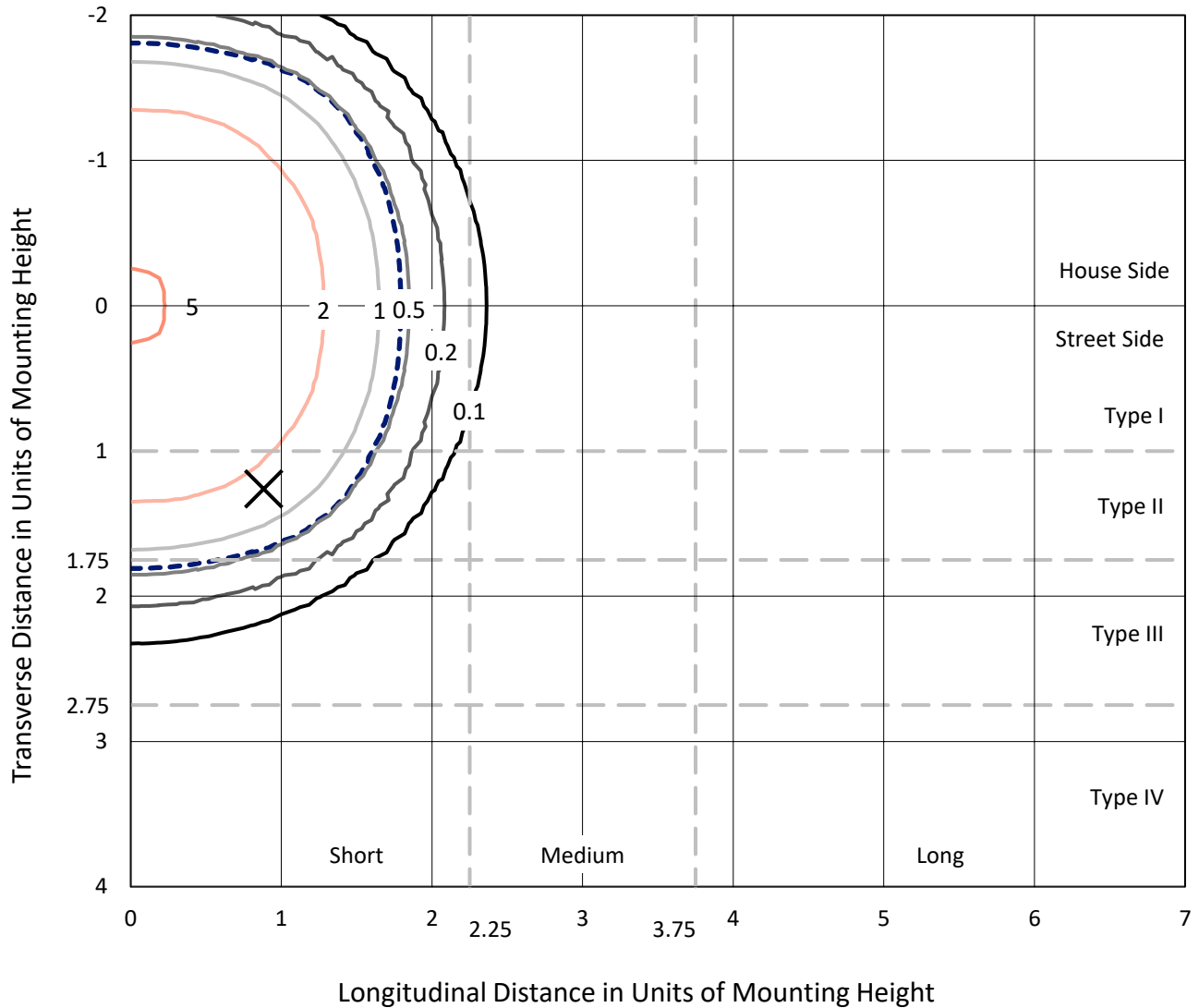
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

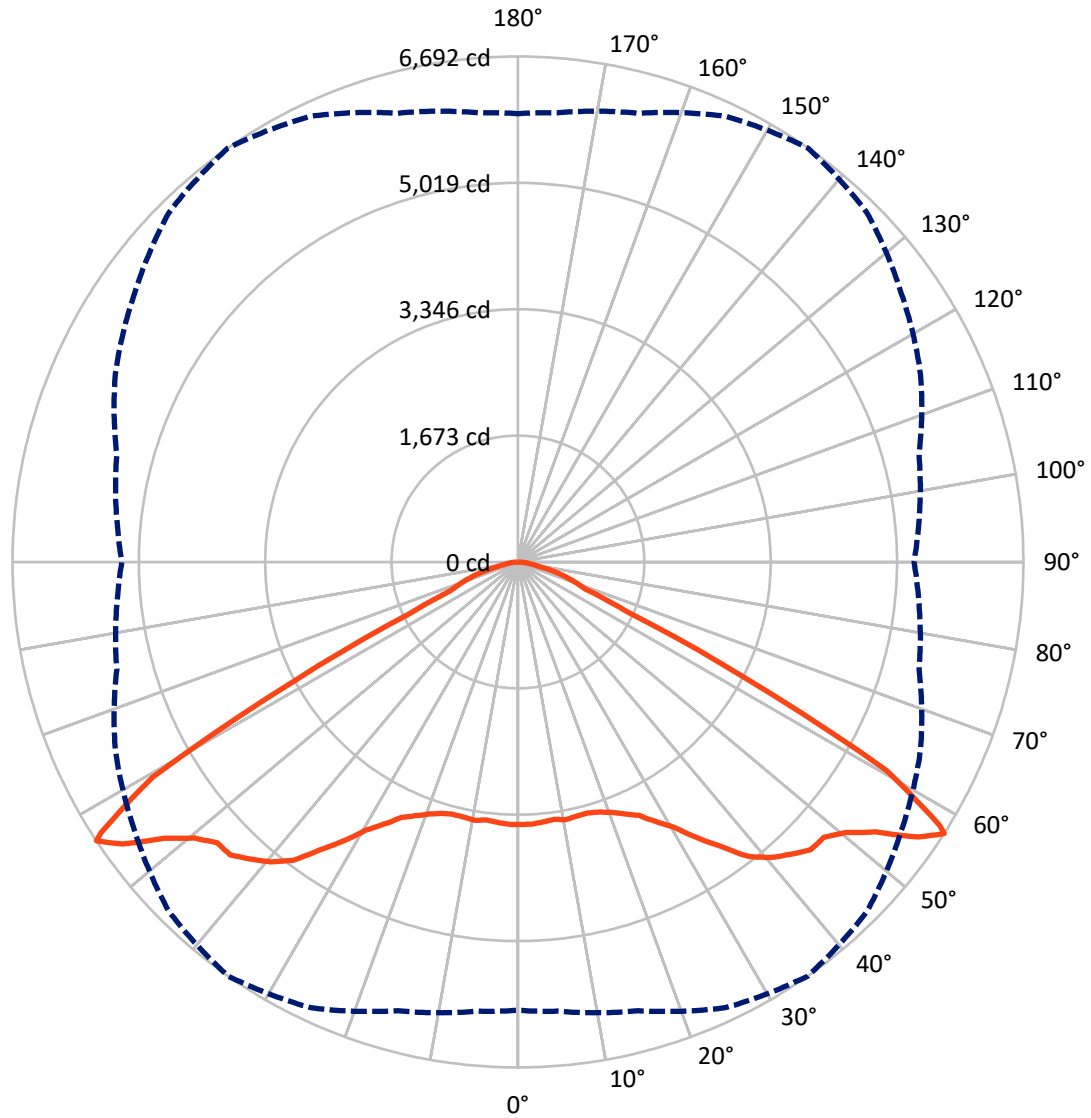
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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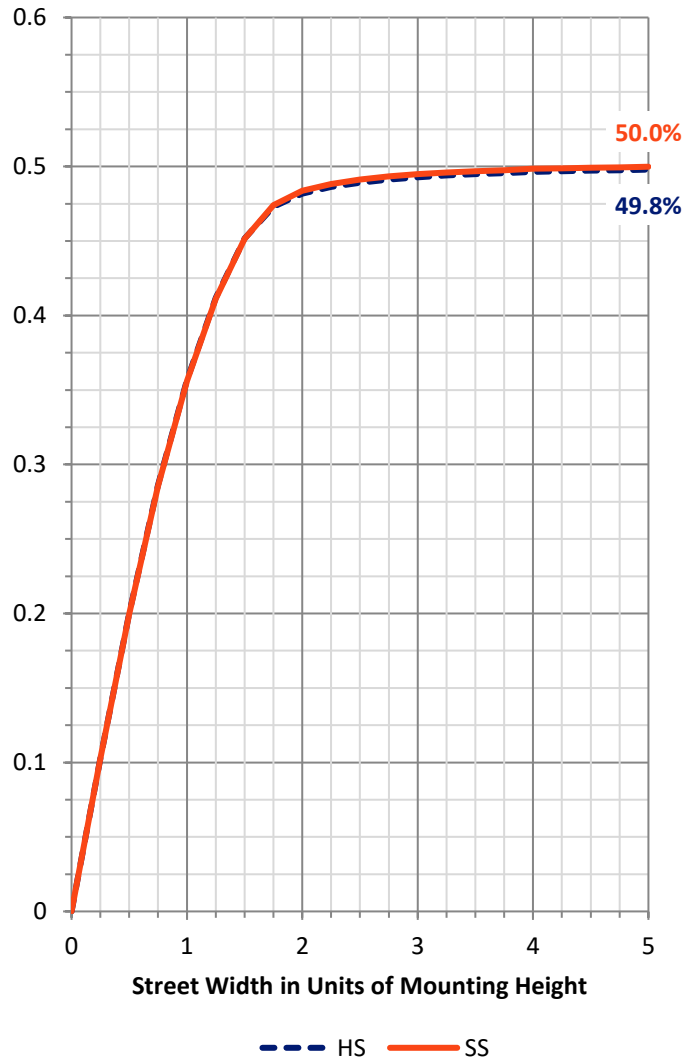
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8798.0 | 0.0 | 8798.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8798.0 | 0.0 | 8798.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 17596.0 | 0.0 | 17596.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 329.4 | 1.9 |
| 10°-20° | 975.7 | 5.5 |
| 20°-30° | 1704.1 | 9.7 |
| 30°-40° | 2792.2 | 15.9 |
| 40°-50° | 4094.1 | 23.3 |
| 50°-60° | 5156.8 | 29.3 |
| 60°-70° | 1939.4 | 11.0 |
| 70°-80° | 515.7 | 2.9 |
| 80°-90° | 88.4 | 0.5 |
| 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° | 17596.0 | 100.0 |
| 0°-180° | 17596.0 | 100.0 |

Coefficient of Utilization



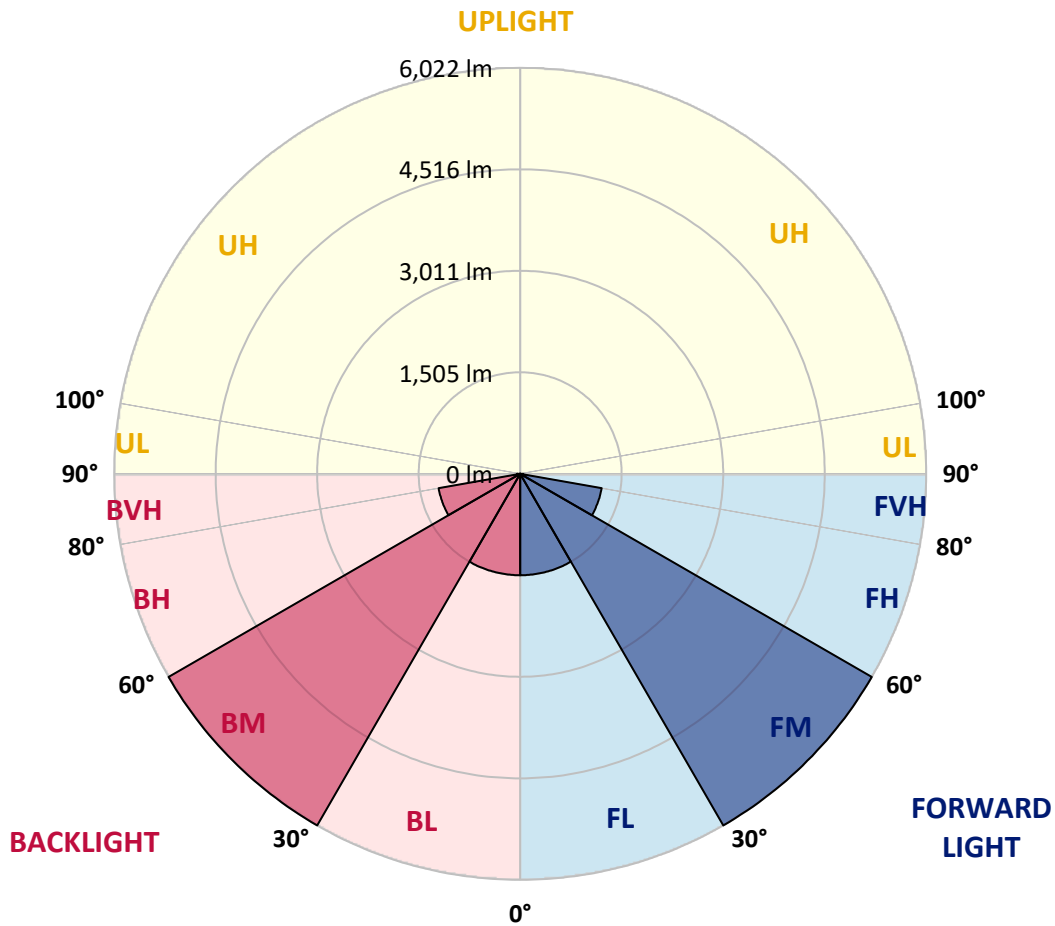
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1504.7 | 8.6 | | | |
| FM (30°-60°) | 6021.6 | 34.2 | | | |
| FH (60°-80°) | 1227.6 | 7.0 | | | G1/1800 |
| FVH (80°-90°) | 44.2 | 0.3 | | | G1/100 |
| BL (0°-30°) | 1504.7 | 8.6 | B3/2500 | | |
| BM (30°-60°) | 6021.6 | 34.2 | B4/8500 | | |
| BH (60°-80°) | 1227.6 | 7.0 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 44.2 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 3475.1 | 3475.1 | 3475.1 | 3475.1 | 3475.1 | 3475.1 | 3475.1 | 3475.1 | 3475.1 | 3475.1 | 3475.1 |
| 2.5° | 3457.7 | 3492.4 | 3477.2 | 3468.6 | 3475.1 | 3464.2 | 3446.9 | 3466.4 | 3462.1 | 3444.7 | 3438.2 |
| 5° | 3449.1 | 3475.1 | 3457.7 | 3475.1 | 3457.7 | 3488.1 | 3479.4 | 3446.9 | 3485.9 | 3449.1 | 3462.1 |
| 7.5° | 3442.6 | 3451.2 | 3455.6 | 3446.9 | 3440.4 | 3477.2 | 3457.7 | 3442.6 | 3420.9 | 3414.4 | 3425.2 |
| 10° | 3427.4 | 3449.1 | 3416.5 | 3459.9 | 3468.6 | 3442.6 | 3442.6 | 3414.4 | 3397.0 | 3386.2 | 3423.1 |
| 12.5° | 3466.4 | 3429.6 | 3425.2 | 3446.9 | 3453.4 | 3464.2 | 3433.9 | 3418.7 | 3386.2 | 3390.5 | 3384.0 |
| 15° | 3420.9 | 3436.1 | 3438.2 | 3442.6 | 3449.1 | 3475.1 | 3446.9 | 3414.4 | 3401.4 | 3355.8 | 3360.2 |
| 17.5° | 3438.2 | 3423.1 | 3438.2 | 3488.1 | 3479.4 | 3498.9 | 3468.6 | 3418.7 | 3388.4 | 3362.4 | 3397.0 |
| 20° | 3468.6 | 3462.1 | 3468.6 | 3529.3 | 3540.1 | 3557.5 | 3531.4 | 3485.9 | 3427.4 | 3397.0 | 3414.4 |
| 22.5° | 3501.1 | 3496.8 | 3501.1 | 3559.6 | 3622.5 | 3644.2 | 3618.2 | 3511.9 | 3481.6 | 3425.2 | 3405.7 |
| 25° | 3559.6 | 3564.0 | 3609.5 | 3674.5 | 3715.7 | 3756.9 | 3709.2 | 3633.3 | 3535.8 | 3501.1 | 3459.9 |
| 27.5° | 3689.7 | 3700.5 | 3726.6 | 3821.9 | 3893.5 | 3930.3 | 3863.1 | 3759.1 | 3698.4 | 3626.8 | 3616.0 |
| 30° | 3850.1 | 3850.1 | 3895.6 | 3978.0 | 4075.6 | 4131.9 | 4049.6 | 3926.0 | 3852.3 | 3813.3 | 3789.4 |
| 32.5° | 4062.6 | 4038.7 | 4056.1 | 4201.3 | 4353.1 | 4400.8 | 4290.2 | 4138.4 | 4021.4 | 3969.4 | 3952.0 |
| 35° | 4244.7 | 4259.8 | 4298.9 | 4455.0 | 4624.0 | 4734.6 | 4561.2 | 4363.9 | 4244.7 | 4197.0 | 4188.3 |
| 37.5° | 4481.0 | 4507.0 | 4526.5 | 4741.1 | 4944.9 | 4986.1 | 4819.2 | 4660.9 | 4515.7 | 4476.6 | 4455.0 |
| 40° | 4814.8 | 4797.5 | 4804.0 | 4962.2 | 5146.5 | 5172.5 | 5007.8 | 4895.0 | 4775.8 | 4752.0 | 4752.0 |
| 42.5° | 5090.1 | 5070.6 | 5092.3 | 5150.8 | 5291.7 | 5272.2 | 5181.2 | 5098.8 | 5048.9 | 5022.9 | 5048.9 |
| 45° | 5257.1 | 5252.7 | 5291.7 | 5335.1 | 5434.8 | 5369.8 | 5298.3 | 5311.3 | 5263.6 | 5220.2 | 5218.0 |
| 47.5° | 5439.2 | 5411.0 | 5458.7 | 5523.7 | 5447.8 | 5417.5 | 5413.1 | 5441.3 | 5426.2 | 5350.3 | 5326.4 |
| 50° | 5528.0 | 5517.2 | 5593.1 | 5669.0 | 5627.8 | 5558.4 | 5573.6 | 5619.1 | 5424.0 | 5322.1 | 5263.6 |
| 52.5° | 5766.5 | 5768.7 | 5913.9 | 5955.1 | 5937.8 | 5835.9 | 5868.4 | 5744.8 | 5515.0 | 5372.0 | 5378.5 |
| 55° | 6141.5 | 6126.4 | 6289.0 | 6410.4 | 6429.9 | 6299.8 | 6143.7 | 5970.3 | 5682.0 | 5536.7 | 5493.4 |
| 57° | 5935.6 | 5970.3 | 6150.2 | 6510.1 | 6692.2 | 6538.3 | 6197.9 | 5881.4 | 5497.7 | 5322.1 | 5244.1 |
| 57.5° | 5660.3 | 5716.6 | 6028.8 | 6390.9 | 6581.6 | 6568.6 | 6130.7 | 5716.6 | 5374.1 | 5101.0 | 5107.5 |
| 60° | 4147.1 | 4158.0 | 4439.8 | 5014.3 | 5610.4 | 5623.4 | 5090.1 | 4541.7 | 4160.1 | 3863.1 | 3904.3 |
| 62.5° | 2187.4 | 2237.2 | 2350.0 | 2811.7 | 3327.7 | 3453.4 | 3130.4 | 2848.6 | 2519.1 | 2293.6 | 2315.3 |
| 65° | 1157.6 | 1151.1 | 1205.3 | 1335.4 | 1589.0 | 1654.1 | 1610.7 | 1387.4 | 1272.5 | 1235.7 | 1237.8 |
| 67.5° | 940.9 | 951.7 | 945.2 | 951.7 | 969.0 | 997.2 | 990.7 | 999.4 | 1005.9 | 1016.7 | 1014.6 |
| 70° | 797.8 | 797.8 | 802.1 | 804.3 | 804.3 | 817.3 | 832.5 | 860.6 | 862.8 | 873.6 | 878.0 |
| 72.5° | 628.7 | 624.3 | 630.8 | 646.0 | 648.2 | 659.0 | 680.7 | 698.1 | 704.6 | 704.6 | 691.5 |
| 75° | 427.1 | 431.4 | 440.1 | 453.1 | 466.1 | 485.6 | 502.9 | 513.8 | 518.1 | 511.6 | 505.1 |
| 77.5° | 240.6 | 245.0 | 251.5 | 271.0 | 286.2 | 303.5 | 323.0 | 333.9 | 344.7 | 346.9 | 333.9 |
| 80° | 143.1 | 143.1 | 153.9 | 169.1 | 186.4 | 203.8 | 221.1 | 234.1 | 238.5 | 238.5 | 232.0 |
| 82.5° | 86.7 | 88.9 | 97.6 | 112.7 | 127.9 | 138.7 | 153.9 | 164.8 | 173.4 | 171.3 | 166.9 |
| 85° | 45.5 | 45.5 | 54.2 | 67.2 | 78.0 | 88.9 | 88.9 | 82.4 | 78.0 | 67.2 | 62.9 |
| 87.5° | 15.2 | 13.0 | 17.3 | 17.3 | 15.2 | 17.3 | 17.3 | 19.5 | 19.5 | 19.5 | 19.5 |
| 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)