

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: P529836

Luminaire Tested: **GALN-SA5A-735-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-735-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19216 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

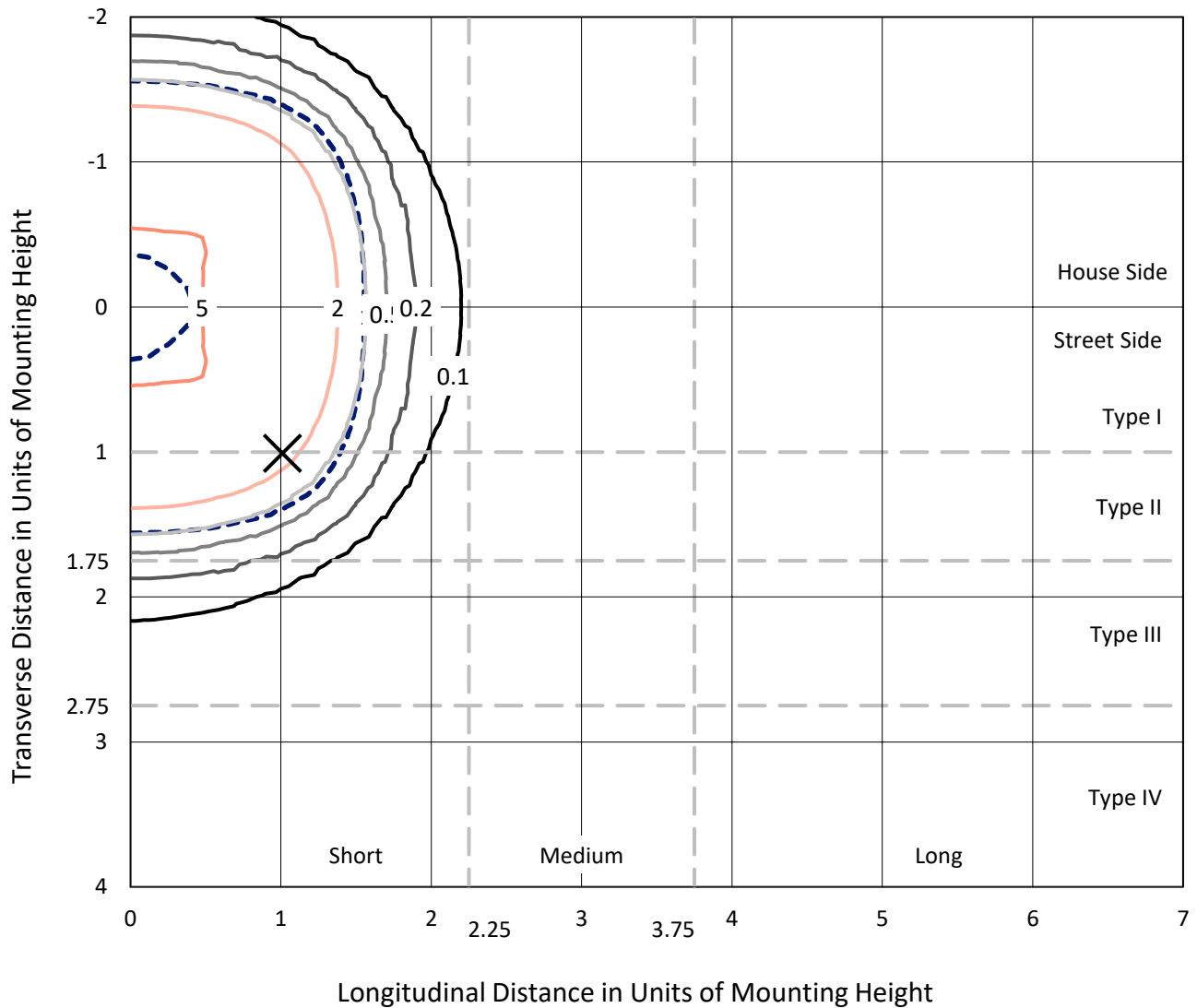
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

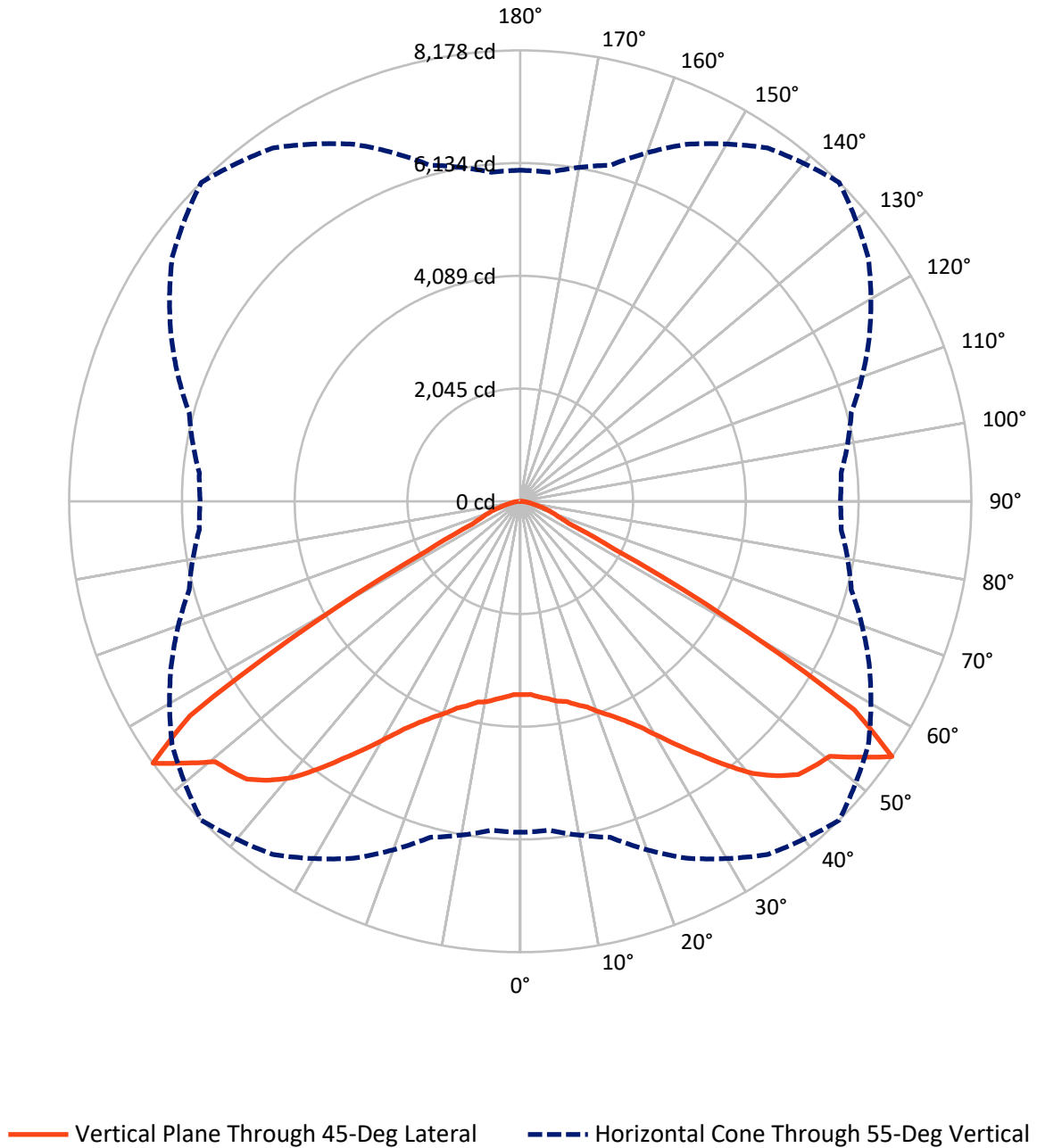
✕ Max cd
 - - - 1/2 Max cd



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



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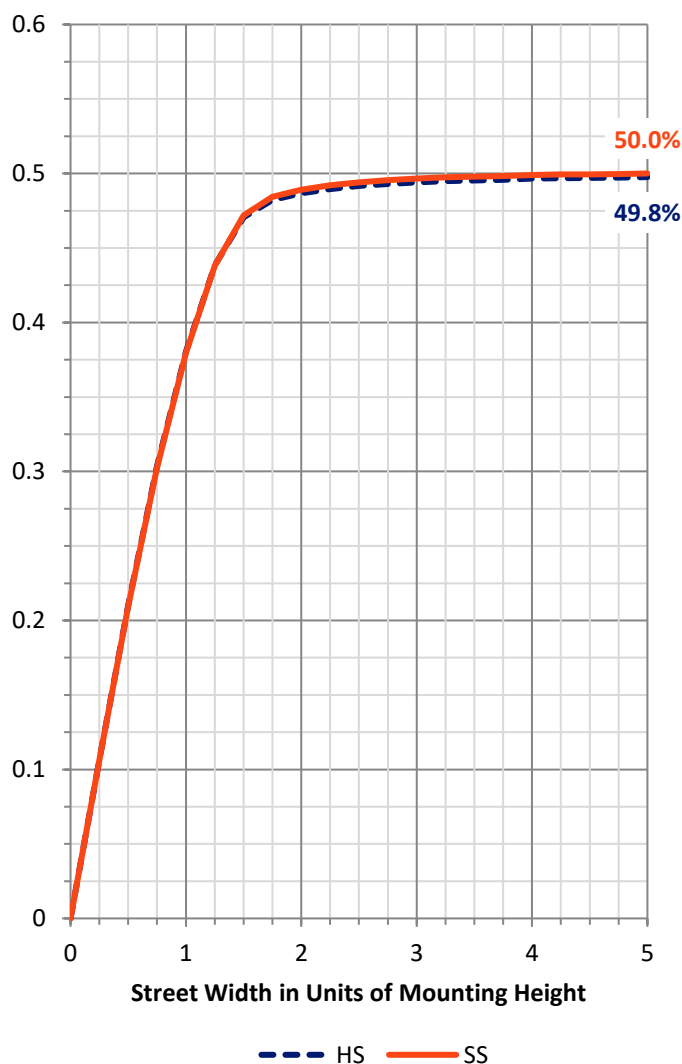
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 9608.0 | 0.0 | 9608.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 9608.0 | 0.0 | 9608.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 19216.0 | 0.0 | 19216.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 342.8 | 1.8 |
| 10°-20° | 1086.0 | 5.7 |
| 20°-30° | 2025.1 | 10.5 |
| 30°-40° | 3390.6 | 17.6 |
| 40°-50° | 5276.1 | 27.5 |
| 50°-60° | 5478.2 | 28.5 |
| 60°-70° | 1161.8 | 6.0 |
| 70°-80° | 382.6 | 2.0 |
| 80°-90° | 72.9 | 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° | 19216.0 | 100.0 |
| 0°-180° | 19216.0 | 100.0 |

Coefficient of Utilization



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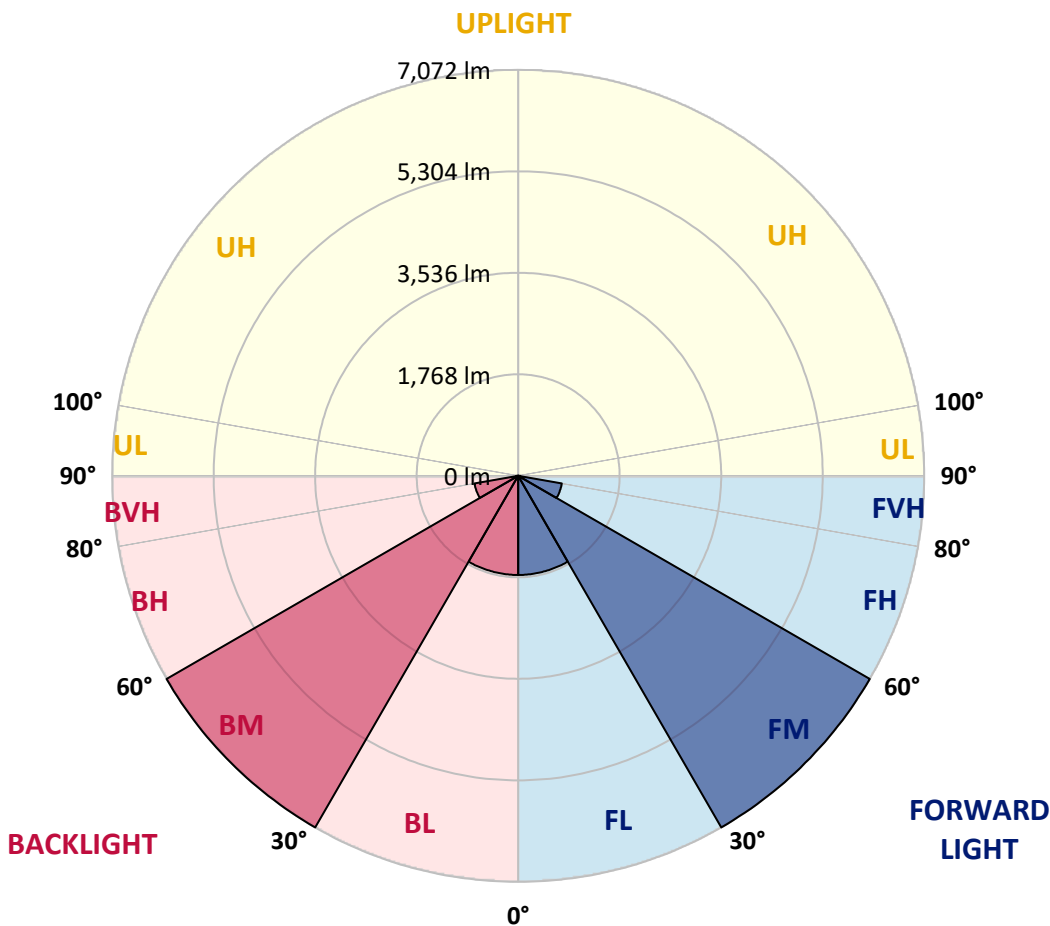
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1726.9 | 9.0 | | | |
| FM (30°-60°) | 7072.5 | 36.8 | | | |
| FH (60°-80°) | 772.2 | 4.0 | | | G1/1800 |
| FVH (80°-90°) | 36.4 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1726.9 | 9.0 | B3/2500 | | |
| BM (30°-60°) | 7072.5 | 36.8 | B4/8500 | | |
| BH (60°-80°) | 772.2 | 4.0 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 36.4 | 0.2 | | | 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° | 3508.6 | 3508.6 | 3508.6 | 3508.6 | 3508.6 | 3508.6 | 3508.6 | 3508.6 | 3508.6 | 3508.6 | 3508.6 |
| 2.5° | 3550.4 | 3534.1 | 3506.2 | 3527.1 | 3543.4 | 3508.6 | 3522.5 | 3529.5 | 3524.8 | 3506.2 | 3513.2 |
| 5° | 3601.4 | 3592.1 | 3568.9 | 3585.2 | 3564.3 | 3564.3 | 3550.4 | 3531.8 | 3559.6 | 3555.0 | 3566.6 |
| 7.5° | 3601.4 | 3589.8 | 3636.3 | 3606.1 | 3615.4 | 3615.4 | 3592.1 | 3573.6 | 3587.5 | 3566.6 | 3555.0 |
| 10° | 3673.4 | 3689.7 | 3668.8 | 3675.7 | 3671.1 | 3687.3 | 3652.5 | 3640.9 | 3629.3 | 3622.3 | 3608.4 |
| 12.5° | 3759.3 | 3747.7 | 3754.7 | 3750.0 | 3766.3 | 3724.5 | 3703.6 | 3678.1 | 3699.0 | 3668.8 | 3689.7 |
| 15° | 3829.0 | 3822.0 | 3829.0 | 3847.6 | 3831.3 | 3829.0 | 3791.8 | 3766.3 | 3733.8 | 3740.8 | 3708.2 |
| 17.5° | 3924.2 | 3917.2 | 3919.6 | 3935.8 | 3933.5 | 3921.9 | 3894.0 | 3845.2 | 3833.6 | 3815.1 | 3794.2 |
| 20° | 4065.8 | 4054.2 | 4049.6 | 4056.5 | 4068.2 | 4077.4 | 4021.7 | 4003.1 | 3963.7 | 3933.5 | 3898.7 |
| 22.5° | 4186.6 | 4181.9 | 4200.5 | 4170.3 | 4195.9 | 4223.7 | 4170.3 | 4161.0 | 4063.5 | 4047.3 | 4010.1 |
| 25° | 4353.8 | 4346.8 | 4335.2 | 4379.3 | 4409.5 | 4407.2 | 4356.1 | 4305.0 | 4230.7 | 4212.1 | 4212.1 |
| 27.5° | 4530.2 | 4490.8 | 4551.1 | 4562.7 | 4616.2 | 4632.4 | 4588.3 | 4514.0 | 4444.3 | 4404.9 | 4414.1 |
| 30° | 4750.8 | 4713.7 | 4727.6 | 4811.2 | 4880.9 | 4941.2 | 4829.8 | 4720.6 | 4623.1 | 4553.5 | 4541.8 |
| 32.5° | 4971.4 | 4934.3 | 4976.1 | 5057.3 | 5196.7 | 5287.2 | 5178.1 | 4987.7 | 4873.9 | 4771.7 | 4792.6 |
| 35° | 5150.2 | 5178.1 | 5245.4 | 5368.5 | 5512.4 | 5658.7 | 5484.6 | 5338.3 | 5175.8 | 5062.0 | 5078.2 |
| 37.5° | 5438.1 | 5524.1 | 5577.5 | 5719.1 | 5923.4 | 6074.4 | 5893.3 | 5702.9 | 5528.7 | 5380.1 | 5329.0 |
| 40° | 5814.3 | 5872.4 | 5932.7 | 6099.9 | 6341.4 | 6492.3 | 6320.5 | 6072.1 | 5900.2 | 5747.0 | 5740.0 |
| 42.5° | 6227.6 | 6283.4 | 6346.0 | 6550.4 | 6694.4 | 6808.1 | 6650.2 | 6517.9 | 6327.5 | 6206.7 | 6199.8 |
| 45° | 6708.3 | 6668.8 | 6738.5 | 6873.1 | 6993.9 | 7068.2 | 6966.0 | 6901.0 | 6764.0 | 6652.6 | 6640.9 |
| 47.5° | 7028.7 | 6993.9 | 7119.3 | 7240.0 | 7258.6 | 7177.3 | 7198.2 | 7258.6 | 7114.6 | 6931.2 | 6989.2 |
| 50° | 7214.5 | 7214.5 | 7298.1 | 7409.5 | 7374.7 | 7270.2 | 7435.1 | 7439.7 | 7295.8 | 7133.2 | 7133.2 |
| 52.5° | 6891.7 | 6963.7 | 7200.5 | 7565.1 | 7681.2 | 7711.4 | 7674.2 | 7516.3 | 7140.2 | 6808.1 | 6791.9 |
| 55° | 6004.7 | 5988.5 | 6308.9 | 7144.8 | 7820.5 | 8178.1 | 7704.4 | 6977.6 | 6213.7 | 5839.9 | 5802.7 |
| 57.5° | 3905.6 | 3924.2 | 4402.5 | 5254.7 | 6473.8 | 7140.2 | 6341.4 | 5319.7 | 4402.5 | 3887.0 | 3935.8 |
| 60° | 1757.8 | 1820.5 | 2110.7 | 2746.9 | 3794.2 | 4337.5 | 3803.5 | 2886.3 | 2215.2 | 1922.6 | 1948.2 |
| 62.5° | 1010.1 | 1021.7 | 1033.3 | 1226.0 | 1616.1 | 1911.0 | 1678.8 | 1295.7 | 1142.4 | 1091.3 | 1091.3 |
| 65° | 852.2 | 845.2 | 847.5 | 863.8 | 905.6 | 966.0 | 940.4 | 905.6 | 910.2 | 905.6 | 898.6 |
| 67.5° | 724.5 | 733.8 | 726.8 | 738.4 | 740.7 | 750.0 | 766.3 | 780.2 | 782.5 | 787.2 | 782.5 |
| 70° | 594.4 | 596.8 | 601.4 | 610.7 | 613.0 | 620.0 | 643.2 | 654.8 | 661.8 | 661.8 | 671.1 |
| 72.5° | 455.1 | 452.8 | 457.4 | 466.7 | 478.3 | 480.7 | 501.6 | 517.8 | 527.1 | 515.5 | 517.8 |
| 75° | 299.5 | 301.9 | 308.8 | 315.8 | 332.0 | 348.3 | 355.3 | 371.5 | 373.8 | 378.5 | 366.9 |
| 77.5° | 178.8 | 183.4 | 190.4 | 204.3 | 218.3 | 232.2 | 248.5 | 260.1 | 264.7 | 260.1 | 246.1 |
| 80° | 116.1 | 116.1 | 125.4 | 137.0 | 153.3 | 164.9 | 174.2 | 183.4 | 190.4 | 183.4 | 178.8 |
| 82.5° | 72.0 | 72.0 | 83.6 | 97.5 | 109.1 | 116.1 | 130.0 | 141.6 | 148.6 | 144.0 | 137.0 |
| 85° | 37.2 | 39.5 | 48.8 | 60.4 | 69.7 | 74.3 | 72.0 | 65.0 | 58.1 | 55.7 | 51.1 |
| 87.5° | 11.6 | 11.6 | 13.9 | 13.9 | 11.6 | 11.6 | 13.9 | 11.6 | 13.9 | 13.9 | 13.9 |
| 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)