

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: P529212

Luminaire Tested: **GALN-SA4B-760-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529212
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-SA4B-760-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 800mA 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: 20275 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

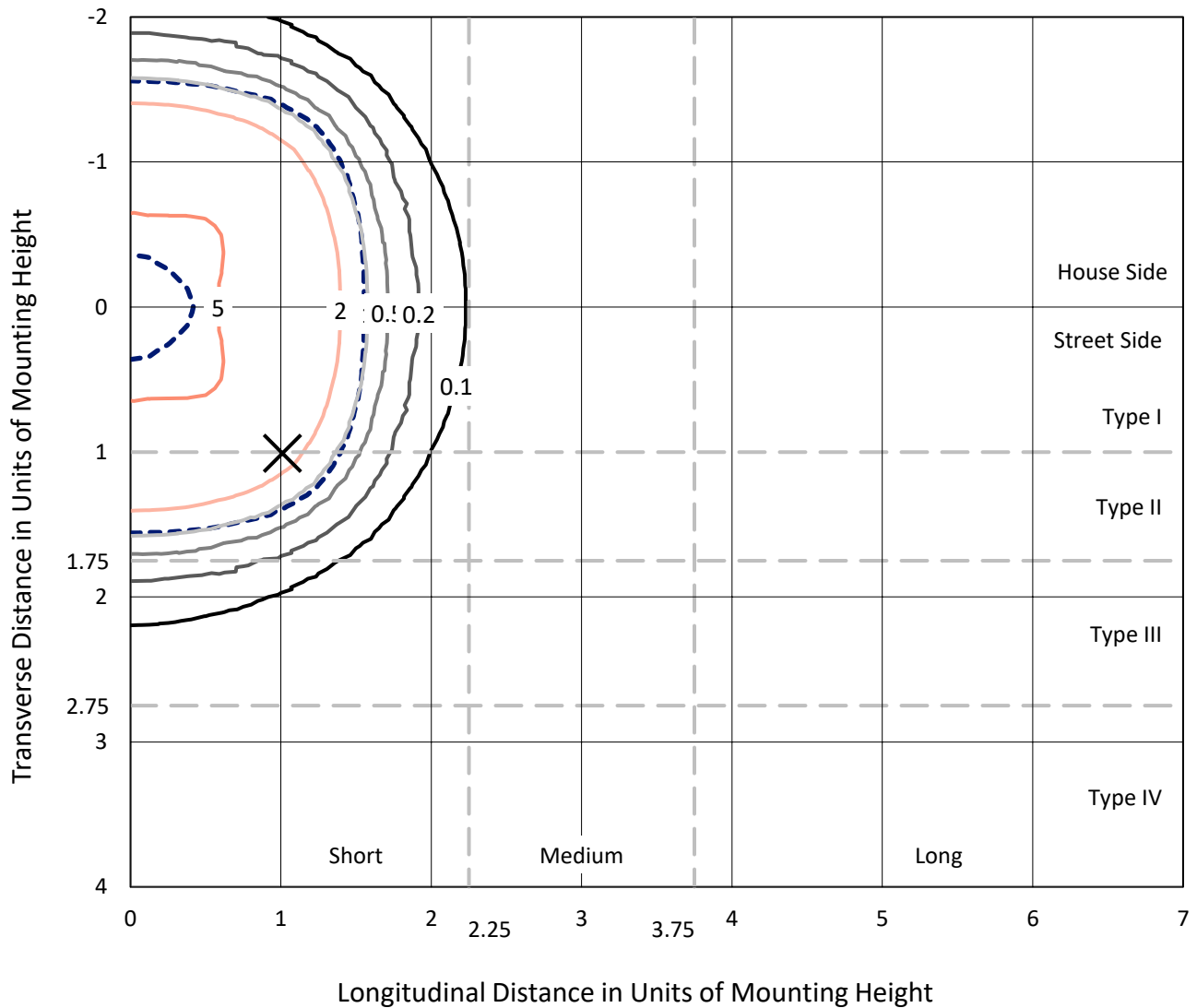
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

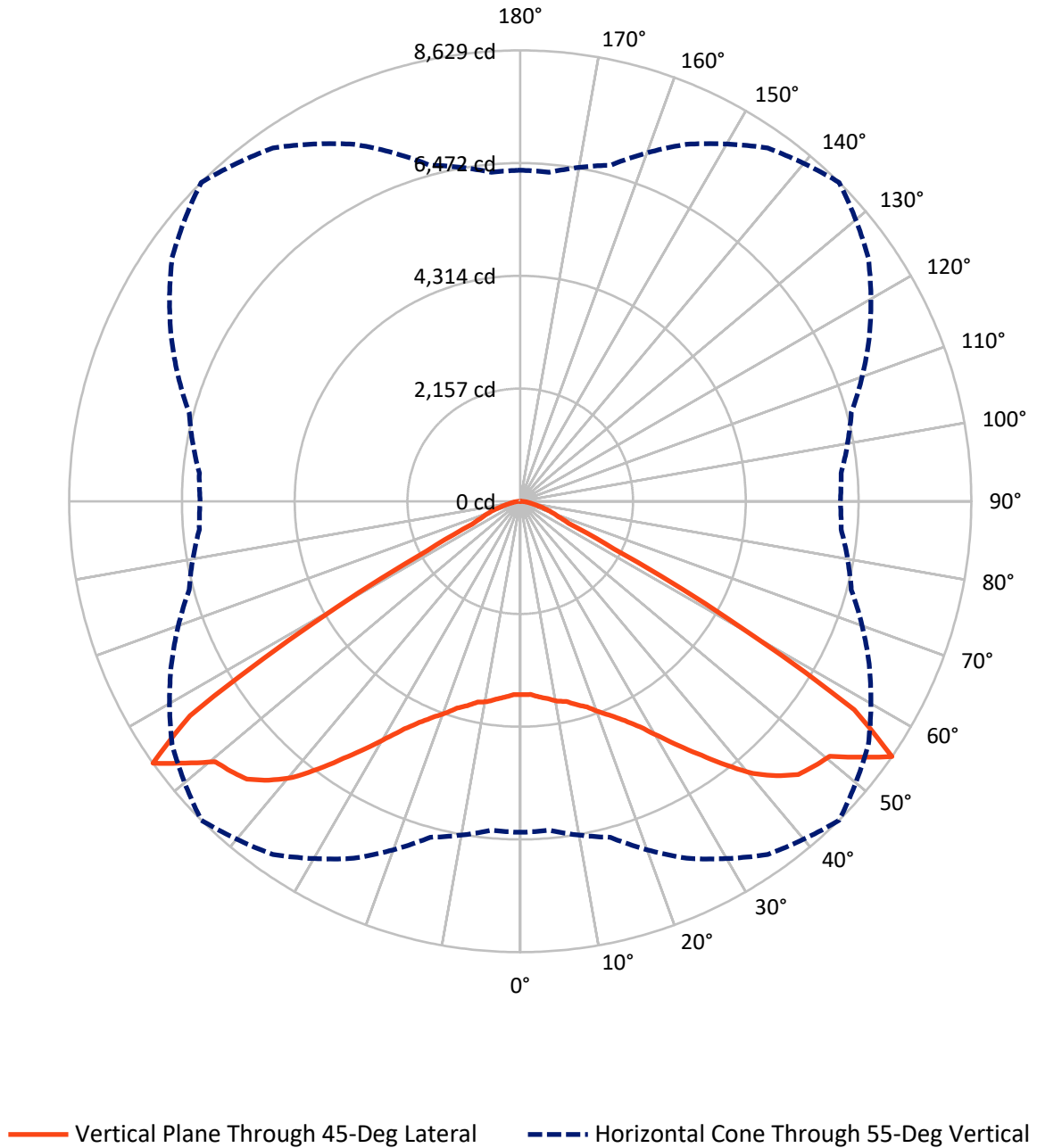
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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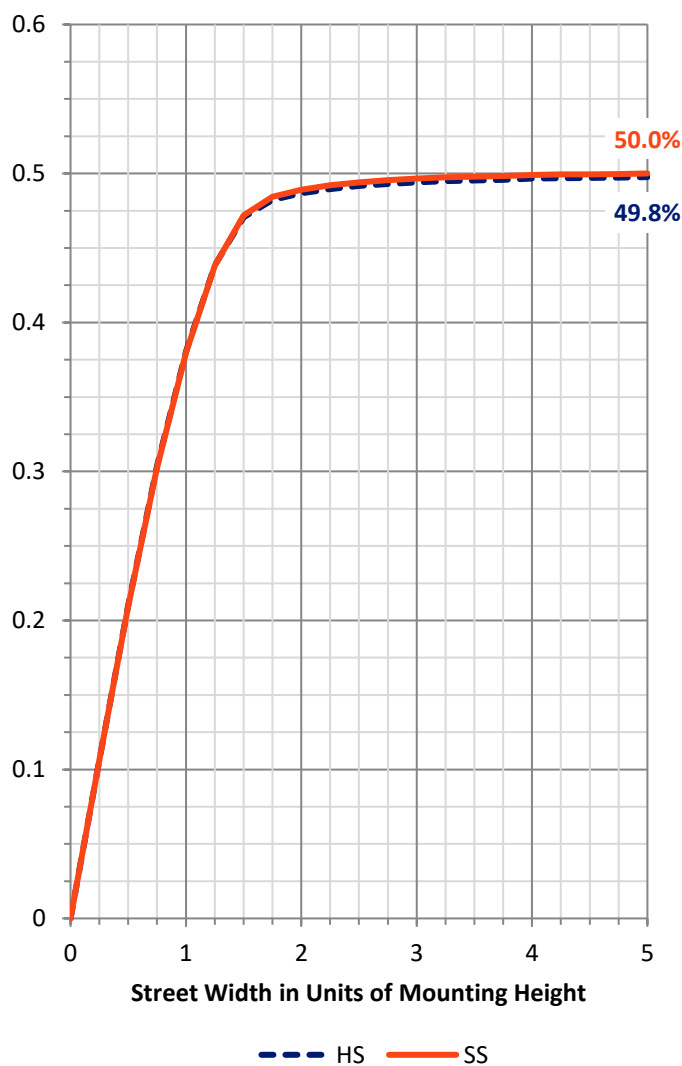
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 10137.5 | 0.0 | 10137.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 10137.5 | 0.0 | 10137.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 20275.0 | 0.0 | 20275.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 361.6 | 1.8 |
| 10°-20° | 1145.9 | 5.7 |
| 20°-30° | 2136.7 | 10.5 |
| 30°-40° | 3577.5 | 17.6 |
| 40°-50° | 5566.8 | 27.5 |
| 50°-60° | 5780.1 | 28.5 |
| 60°-70° | 1225.8 | 6.0 |
| 70°-80° | 403.7 | 2.0 |
| 80°-90° | 76.9 | 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° | 20275.0 | 100.0 |
| 0°-180° | 20275.0 | 100.0 |

Coefficient of Utilization

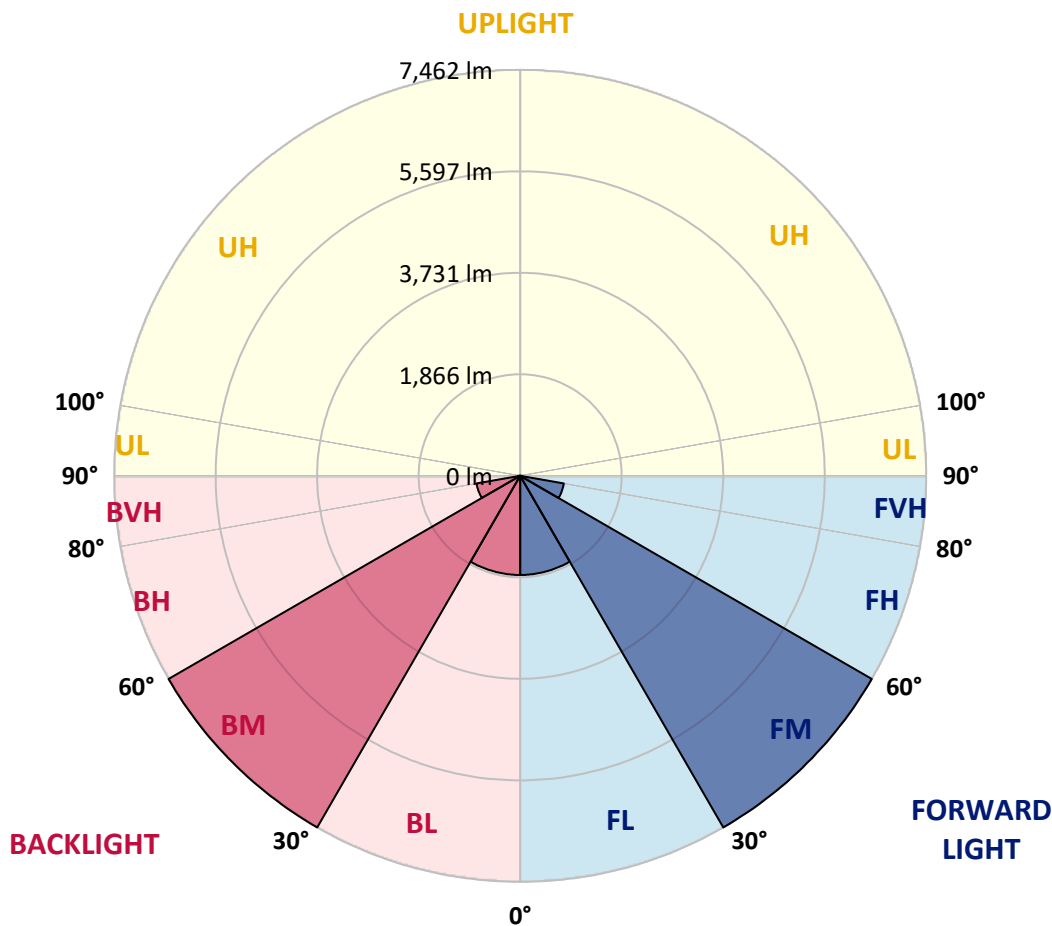


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1822.1 | 9.0 | | | |
| FM (30°-60°) | 7462.2 | 36.8 | | | |
| FH (60°-80°) | 814.7 | 4.0 | | | G1/1800 |
| FVH (80°-90°) | 38.4 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1822.1 | 9.0 | B3/2500 | | |
| BM (30°-60°) | 7462.2 | 36.8 | B4/8500 | | |
| BH (60°-80°) | 814.7 | 4.0 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 38.4 | 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° | 3701.9 | 3701.9 | 3701.9 | 3701.9 | 3701.9 | 3701.9 | 3701.9 | 3701.9 | 3701.9 | 3701.9 | 3701.9 |
| 2.5° | 3746.0 | 3728.9 | 3699.5 | 3721.5 | 3738.7 | 3701.9 | 3716.6 | 3724.0 | 3719.1 | 3699.5 | 3706.8 |
| 5° | 3799.9 | 3790.1 | 3765.6 | 3782.8 | 3760.7 | 3760.7 | 3746.0 | 3726.4 | 3755.8 | 3750.9 | 3763.2 |
| 7.5° | 3799.9 | 3787.7 | 3836.7 | 3804.8 | 3814.6 | 3814.6 | 3790.1 | 3770.5 | 3785.2 | 3763.2 | 3750.9 |
| 10° | 3875.9 | 3893.0 | 3871.0 | 3878.3 | 3873.4 | 3890.6 | 3853.8 | 3841.6 | 3829.3 | 3822.0 | 3807.3 |
| 12.5° | 3966.5 | 3954.3 | 3961.6 | 3956.7 | 3973.9 | 3929.8 | 3907.7 | 3880.8 | 3902.8 | 3871.0 | 3893.0 |
| 15° | 4040.0 | 4032.7 | 4040.0 | 4059.6 | 4042.5 | 4040.0 | 4000.8 | 3973.9 | 3939.6 | 3946.9 | 3912.6 |
| 17.5° | 4140.5 | 4133.1 | 4135.6 | 4152.7 | 4150.3 | 4138.0 | 4108.6 | 4057.2 | 4044.9 | 4025.3 | 4003.3 |
| 20° | 4289.9 | 4277.7 | 4272.8 | 4280.1 | 4292.4 | 4302.2 | 4243.4 | 4223.8 | 4182.1 | 4150.3 | 4113.5 |
| 22.5° | 4417.3 | 4412.4 | 4432.0 | 4400.2 | 4427.1 | 4456.5 | 4400.2 | 4390.4 | 4287.5 | 4270.3 | 4231.1 |
| 25° | 4593.7 | 4586.4 | 4574.1 | 4620.7 | 4652.5 | 4650.1 | 4596.2 | 4542.3 | 4463.9 | 4444.3 | 4444.3 |
| 27.5° | 4779.9 | 4738.3 | 4802.0 | 4814.2 | 4870.6 | 4887.7 | 4841.2 | 4762.8 | 4689.3 | 4647.6 | 4657.4 |
| 30° | 5012.6 | 4973.4 | 4988.1 | 5076.3 | 5149.8 | 5213.5 | 5095.9 | 4980.8 | 4877.9 | 4804.4 | 4792.2 |
| 32.5° | 5245.4 | 5206.2 | 5250.3 | 5336.0 | 5483.0 | 5578.6 | 5463.4 | 5262.5 | 5142.5 | 5034.7 | 5056.7 |
| 35° | 5434.0 | 5463.4 | 5534.5 | 5664.3 | 5816.2 | 5970.6 | 5786.8 | 5632.5 | 5461.0 | 5340.9 | 5358.1 |
| 37.5° | 5737.8 | 5828.5 | 5884.8 | 6034.3 | 6249.9 | 6409.1 | 6218.0 | 6017.1 | 5833.4 | 5676.6 | 5622.7 |
| 40° | 6134.7 | 6196.0 | 6259.7 | 6436.1 | 6690.9 | 6850.1 | 6668.8 | 6406.7 | 6225.4 | 6063.7 | 6056.3 |
| 42.5° | 6570.8 | 6629.6 | 6695.8 | 6911.4 | 7063.3 | 7183.3 | 7016.7 | 6877.1 | 6676.2 | 6548.8 | 6541.4 |
| 45° | 7078.0 | 7036.3 | 7109.8 | 7251.9 | 7379.3 | 7457.7 | 7349.9 | 7281.3 | 7136.8 | 7019.2 | 7006.9 |
| 47.5° | 7416.1 | 7379.3 | 7511.6 | 7639.0 | 7658.6 | 7572.9 | 7594.9 | 7658.6 | 7506.7 | 7313.2 | 7374.4 |
| 50° | 7612.1 | 7612.1 | 7700.3 | 7817.9 | 7781.1 | 7670.9 | 7844.8 | 7849.7 | 7697.8 | 7526.3 | 7526.3 |
| 52.5° | 7271.5 | 7347.5 | 7597.4 | 7982.0 | 8104.5 | 8136.4 | 8097.2 | 7930.6 | 7533.7 | 7183.3 | 7166.2 |
| 55° | 6335.6 | 6318.5 | 6656.6 | 7538.6 | 8251.5 | 8628.8 | 8129.0 | 7362.2 | 6556.1 | 6161.7 | 6122.5 |
| 57.5° | 4120.9 | 4140.5 | 4645.2 | 5544.3 | 6830.5 | 7533.7 | 6690.9 | 5612.9 | 4645.2 | 4101.3 | 4152.7 |
| 60° | 1854.6 | 1920.8 | 2227.0 | 2898.3 | 4003.3 | 4576.6 | 4013.1 | 3045.3 | 2337.3 | 2028.6 | 2055.5 |
| 62.5° | 1065.7 | 1078.0 | 1090.2 | 1293.6 | 1705.2 | 2016.3 | 1771.3 | 1367.1 | 1205.4 | 1151.5 | 1151.5 |
| 65° | 899.1 | 891.8 | 894.2 | 911.4 | 955.5 | 1019.2 | 992.2 | 955.5 | 960.4 | 955.5 | 948.1 |
| 67.5° | 764.4 | 774.2 | 766.8 | 779.1 | 781.5 | 791.3 | 808.5 | 823.2 | 825.6 | 830.5 | 825.6 |
| 70° | 627.2 | 629.6 | 634.5 | 644.3 | 646.8 | 654.1 | 678.6 | 690.9 | 698.2 | 698.2 | 708.0 |
| 72.5° | 480.2 | 477.7 | 482.6 | 492.4 | 504.7 | 507.1 | 529.2 | 546.3 | 556.1 | 543.9 | 546.3 |
| 75° | 316.0 | 318.5 | 325.8 | 333.2 | 350.3 | 367.5 | 374.8 | 392.0 | 394.4 | 399.3 | 387.1 |
| 77.5° | 188.6 | 193.5 | 200.9 | 215.6 | 230.3 | 245.0 | 262.1 | 274.4 | 279.3 | 274.4 | 259.7 |
| 80° | 122.5 | 122.5 | 132.3 | 144.5 | 161.7 | 173.9 | 183.7 | 193.5 | 200.9 | 193.5 | 188.6 |
| 82.5° | 75.9 | 75.9 | 88.2 | 102.9 | 115.1 | 122.5 | 137.2 | 149.4 | 156.8 | 151.9 | 144.5 |
| 85° | 39.2 | 41.6 | 51.4 | 63.7 | 73.5 | 78.4 | 75.9 | 68.6 | 61.2 | 58.8 | 53.9 |
| 87.5° | 12.2 | 12.2 | 14.7 | 14.7 | 12.2 | 12.2 | 14.7 | 12.2 | 14.7 | 14.7 | 14.7 |
| 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)