

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: P532666

Luminaire Tested: **GALN-SA8A-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-735-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30030 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

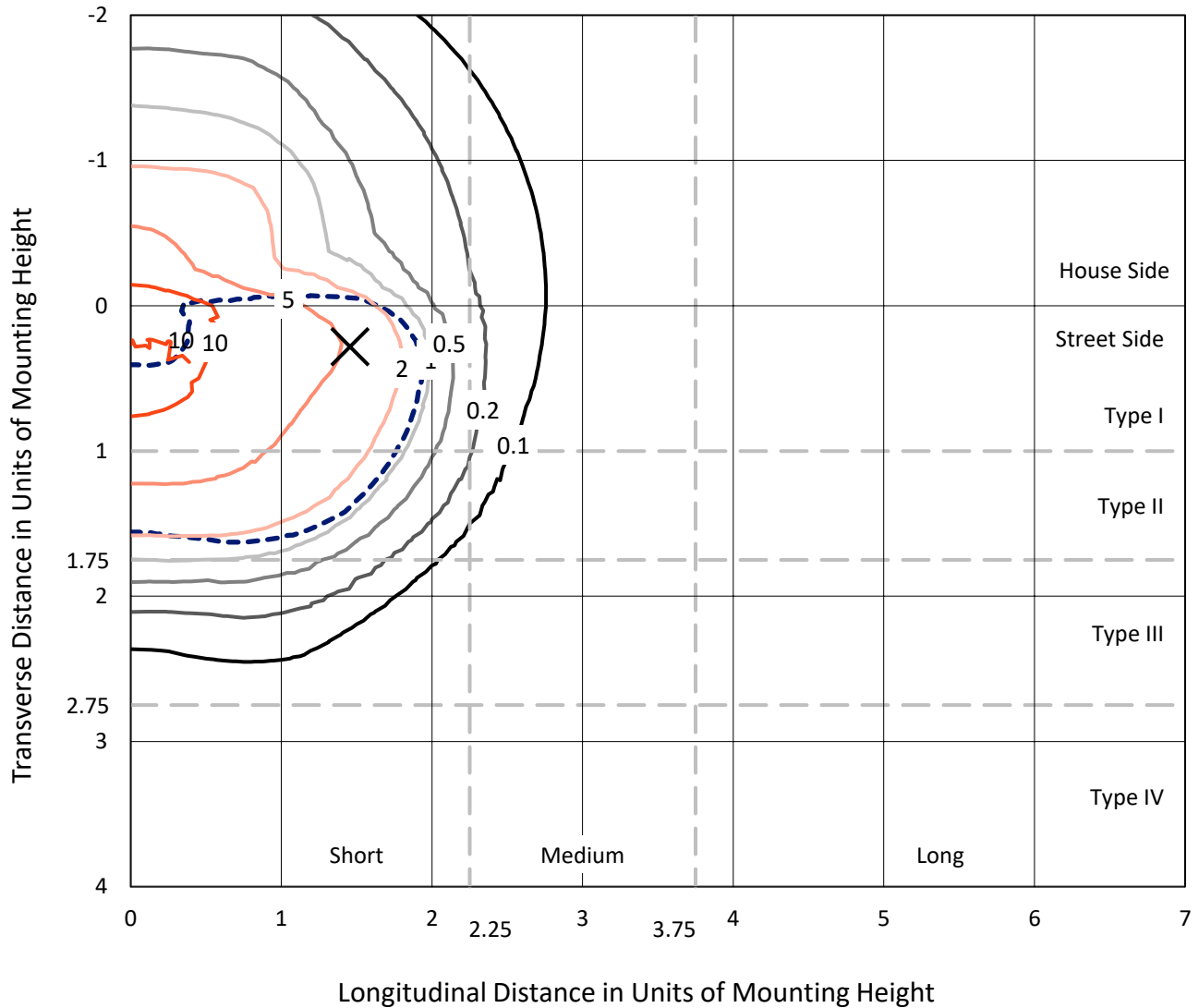
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

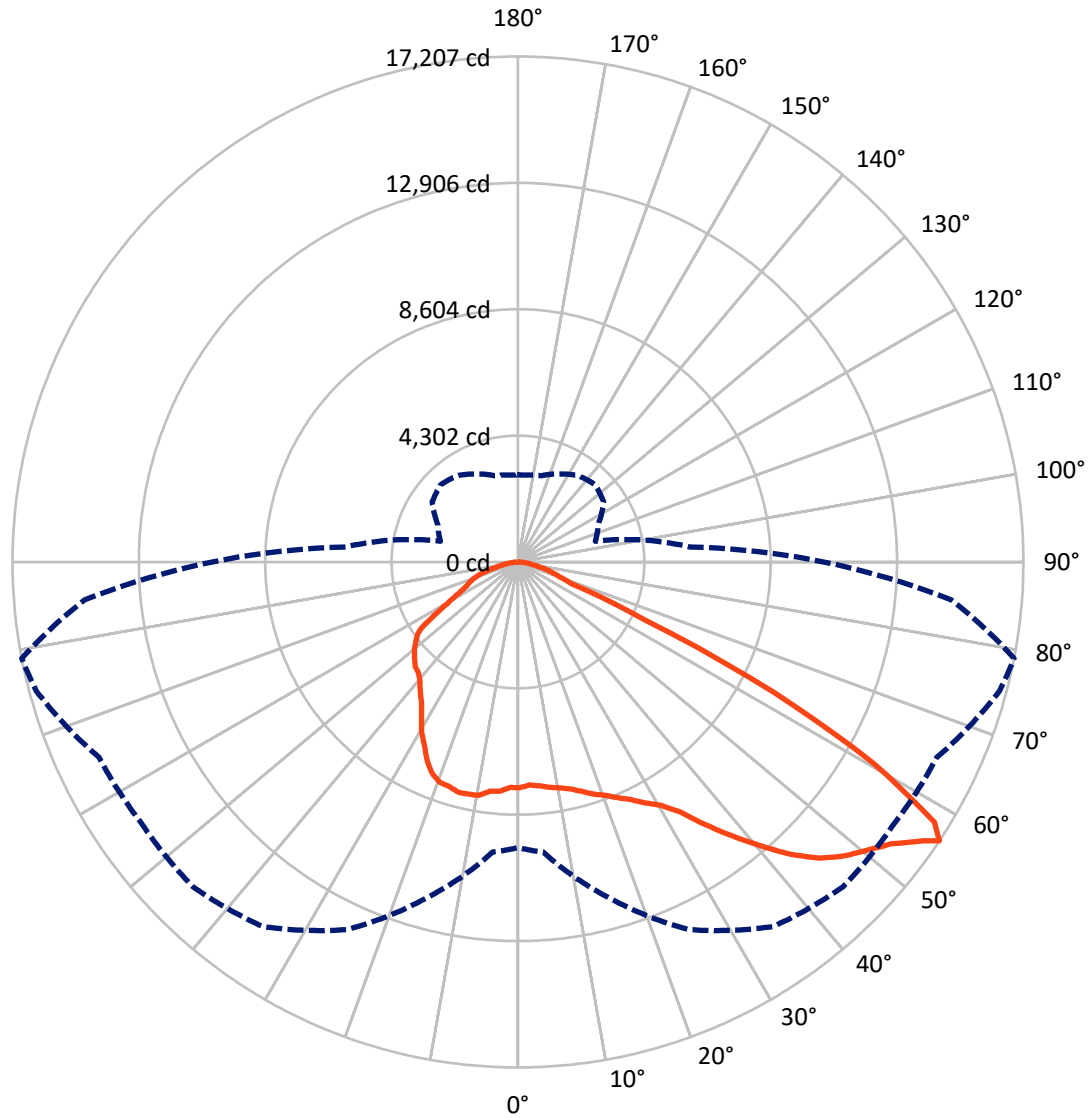
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8868.5 | 0.0 | 8868.5 |
| | % Fixture | 29.5 | 0.0 | 29.5 |
| Street Side | Lumens | 21161.5 | 0.0 | 21161.5 |
| | % Fixture | 70.5 | 0.0 | 70.5 |
| Total | Lumens | 30030.0 | 0.0 | 30030.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 698.6 | 2.3 |
| 10°-20° | 1911.8 | 6.4 |
| 20°-30° | 3270.7 | 10.9 |
| 30°-40° | 5012.8 | 16.7 |
| 40°-50° | 6774.8 | 22.6 |
| 50°-60° | 7781.1 | 25.9 |
| 60°-70° | 3546.8 | 11.8 |
| 70°-80° | 874.5 | 2.9 |
| 80°-90° | 158.9 | 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° | 30030.0 | 100.0 |
| 0°-180° | 30030.0 | 100.0 |

Coefficient of Utilization

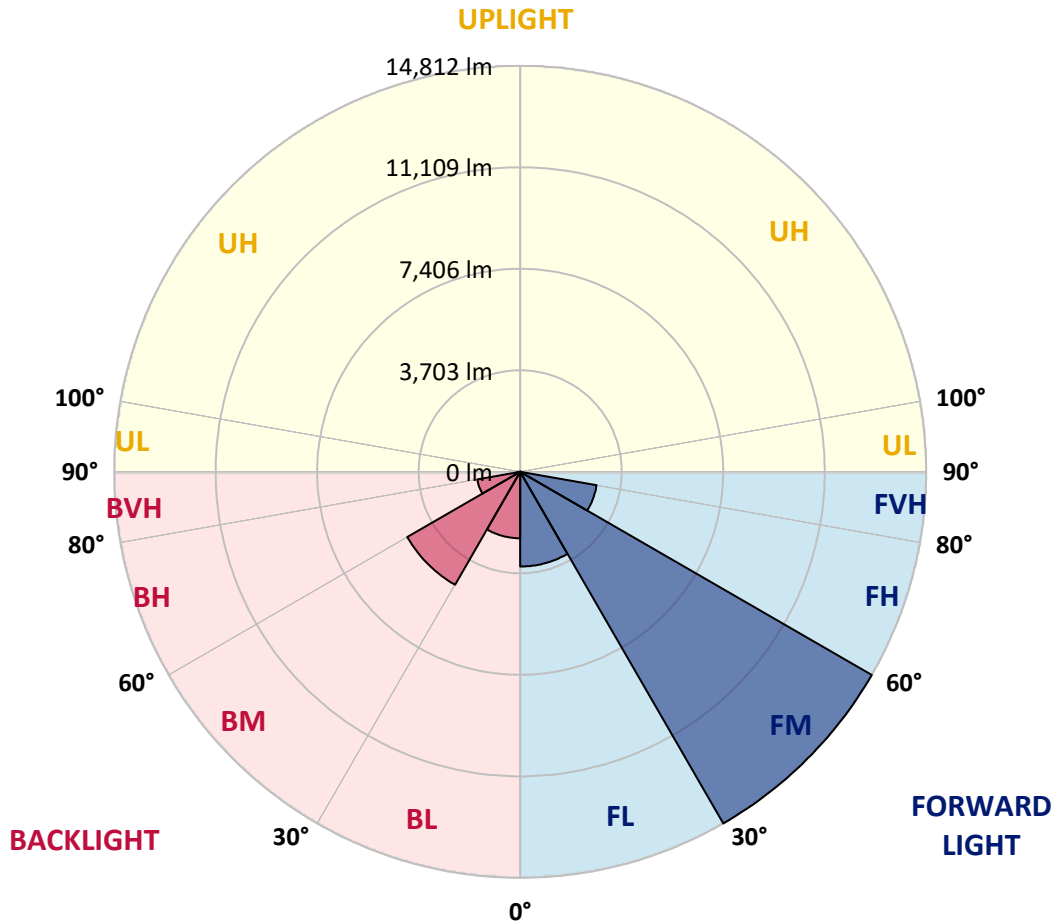


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3455.2 | 11.5 | | | |
| FM (30°-60°) | 14811.7 | 49.3 | | | |
| FH (60°-80°) | 2831.1 | 9.4 | | | G2/5000 |
| FVH (80°-90°) | 63.5 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2425.9 | 8.1 | B3/2500 | | |
| BM (30°-60°) | 4757.0 | 15.8 | B3/5000 | | |
| BH (60°-80°) | 1590.2 | 5.3 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 95.5 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 79° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7683.5 | 7683.5 | 7683.5 | 7683.5 | 7683.5 | 7683.5 | 7683.5 | 7683.5 | 7683.5 | 7683.5 | 7683.5 |
| 2.5° | 7309.4 | 7290.7 | 7335.6 | 7369.3 | 7410.4 | 7462.8 | 7489.0 | 7503.9 | 7634.9 | 7601.2 | 7702.2 |
| 5° | 7152.3 | 7103.7 | 7137.3 | 7163.5 | 7234.6 | 7298.2 | 7369.3 | 7481.5 | 7601.2 | 7653.6 | 7777.0 |
| 7.5° | 7013.9 | 6987.7 | 6980.2 | 6998.9 | 7096.2 | 7178.5 | 7301.9 | 7466.5 | 7661.0 | 7747.1 | 7818.2 |
| 10° | 6785.7 | 6748.3 | 6804.4 | 6927.9 | 6954.0 | 7126.1 | 7268.3 | 7503.9 | 7672.3 | 7821.9 | 8031.4 |
| 12.5° | 6684.7 | 6647.3 | 6658.5 | 6729.6 | 6912.9 | 7077.5 | 7245.8 | 7511.4 | 7866.8 | 7926.6 | 8207.2 |
| 15° | 6845.6 | 6808.2 | 6819.4 | 6800.7 | 6976.5 | 7062.5 | 7328.1 | 7661.0 | 8001.5 | 8102.5 | 8401.7 |
| 17.5° | 7212.2 | 7215.9 | 7167.3 | 7126.1 | 7085.0 | 7268.3 | 7451.6 | 7750.8 | 8053.8 | 8308.2 | 8532.6 |
| 20° | 7911.7 | 7788.2 | 7691.0 | 7459.0 | 7395.5 | 7474.0 | 7705.9 | 7994.0 | 8267.0 | 8476.5 | 8730.9 |
| 22.5° | 8450.3 | 8461.6 | 8323.2 | 7941.6 | 7803.2 | 7836.9 | 8035.1 | 8270.8 | 8570.0 | 8719.7 | 9011.5 |
| 25° | 9232.2 | 9153.6 | 9004.0 | 8701.0 | 8390.5 | 8416.7 | 8562.6 | 8775.8 | 8858.1 | 8962.8 | 9280.8 |
| 27.5° | 9946.6 | 9969.1 | 9673.6 | 9389.3 | 9004.0 | 8929.2 | 9191.0 | 9228.4 | 9090.0 | 9288.3 | 9396.7 |
| 30° | 10672.3 | 10653.6 | 10459.1 | 10126.2 | 9748.4 | 9763.3 | 9879.3 | 9696.0 | 9505.2 | 9613.7 | 9688.5 |
| 32.5° | 11424.2 | 11211.0 | 11203.5 | 10904.3 | 10616.2 | 10477.8 | 10335.7 | 10425.5 | 10129.9 | 10152.4 | 10081.3 |
| 35° | 12026.5 | 12056.4 | 11884.3 | 11671.1 | 11529.0 | 11285.8 | 10896.8 | 11057.6 | 11001.5 | 10975.3 | 10668.6 |
| 37.5° | 12464.2 | 12348.2 | 12434.2 | 12363.2 | 12228.5 | 11925.5 | 11521.5 | 11674.9 | 11701.0 | 11828.2 | 11472.9 |
| 40° | 12823.3 | 12774.6 | 13002.8 | 13040.2 | 12946.7 | 12292.1 | 11566.4 | 12022.8 | 12415.5 | 12692.3 | 12269.6 |
| 42.5° | 12995.3 | 13100.1 | 13339.5 | 13627.5 | 13418.0 | 12718.5 | 11798.3 | 12288.3 | 13163.7 | 13601.3 | 13025.3 |
| 45° | 13227.3 | 13092.6 | 13448.0 | 13975.4 | 13979.2 | 13077.6 | 12022.8 | 12647.5 | 13747.2 | 14383.2 | 13541.5 |
| 47.5° | 12991.6 | 13058.9 | 13425.5 | 14095.1 | 14267.2 | 13455.5 | 12628.8 | 13156.2 | 14390.6 | 14955.5 | 14020.3 |
| 50° | 12464.2 | 12598.8 | 13268.4 | 13964.2 | 14484.2 | 13855.7 | 13324.5 | 13706.1 | 14985.4 | 15415.6 | 14098.9 |
| 52.5° | 11914.3 | 11989.1 | 13036.5 | 14065.2 | 14581.4 | 14371.9 | 14256.0 | 14465.5 | 15711.1 | 15935.6 | 14196.1 |
| 55° | 10418.0 | 10773.3 | 12269.6 | 14020.3 | 15056.5 | 15303.4 | 15213.6 | 15520.3 | 16534.1 | 16758.5 | 14727.3 |
| 56° | 9725.9 | 9913.0 | 11809.5 | 13810.8 | 15150.0 | 15643.8 | 15598.9 | 15737.3 | 16971.8 | 17207.4 | 14809.6 |
| 57.5° | 8446.6 | 8461.6 | 10070.1 | 12883.1 | 14798.4 | 15744.8 | 15699.9 | 15808.4 | 16885.7 | 16724.9 | 14087.6 |
| 60° | 5285.7 | 5517.6 | 6853.0 | 9909.2 | 12583.9 | 14607.6 | 14862.0 | 13990.4 | 14237.3 | 13896.9 | 10960.4 |
| 62.5° | 2738.2 | 2704.6 | 3591.1 | 5794.4 | 8353.1 | 10459.1 | 10694.8 | 10653.6 | 10272.1 | 9774.6 | 7159.8 |
| 65° | 1365.4 | 1372.9 | 1877.9 | 2869.2 | 4279.4 | 5476.4 | 6134.8 | 6205.9 | 5192.2 | 4776.9 | 3396.6 |
| 67.5° | 991.3 | 1028.7 | 1350.4 | 1754.4 | 2016.3 | 2255.7 | 2764.4 | 2712.0 | 2053.7 | 1952.7 | 1810.5 |
| 70° | 770.6 | 804.3 | 1096.0 | 1339.2 | 1215.7 | 1215.7 | 1324.2 | 1369.1 | 1462.6 | 1503.8 | 1552.4 |
| 72.5° | 561.1 | 587.3 | 837.9 | 924.0 | 796.8 | 856.6 | 991.3 | 1096.0 | 1193.3 | 1208.3 | 1264.4 |
| 75° | 385.3 | 407.7 | 549.9 | 508.7 | 478.8 | 591.0 | 725.7 | 823.0 | 894.0 | 931.4 | 965.1 |
| 77.5° | 250.6 | 258.1 | 314.2 | 265.6 | 306.7 | 381.6 | 471.3 | 553.6 | 624.7 | 654.6 | 662.1 |
| 80° | 112.2 | 123.4 | 134.7 | 168.3 | 213.2 | 273.1 | 336.7 | 404.0 | 448.9 | 460.1 | 482.6 |
| 82.5° | 63.6 | 63.6 | 82.3 | 119.7 | 157.1 | 198.3 | 243.1 | 291.8 | 344.1 | 355.4 | 351.6 |
| 85° | 33.7 | 33.7 | 48.6 | 71.1 | 97.3 | 116.0 | 112.2 | 116.0 | 123.4 | 142.1 | 138.4 |
| 87.5° | 11.2 | 11.2 | 15.0 | 15.0 | 18.7 | 22.4 | 18.7 | 26.2 | 33.7 | 33.7 | 33.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 7683.5 | 7683.5 | 7683.5 | 7683.5 | 7683.5 | 7683.5 | 7683.5 | 7683.5 | 7683.5 | 7683.5 | 7683.5 |
| 2.5° | 7672.3 | 7705.9 | 7661.0 | 7758.3 | 7758.3 | 7739.6 | 7646.1 | 7676.0 | 7698.5 | 7698.5 | 7717.2 |
| 5° | 7818.2 | 7806.9 | 7836.9 | 7720.9 | 7649.8 | 7623.6 | 7470.3 | 7395.5 | 7331.9 | 7328.1 | 7272.0 |
| 7.5° | 7900.5 | 7870.5 | 7859.3 | 7773.3 | 7459.0 | 7268.3 | 6939.1 | 6748.3 | 6707.2 | 6561.3 | 6617.4 |
| 10° | 8031.4 | 8087.5 | 8031.4 | 7563.8 | 7126.1 | 6688.4 | 6366.7 | 6071.2 | 5955.3 | 5861.7 | 5805.6 |
| 12.5° | 8300.7 | 8274.5 | 7949.1 | 7316.9 | 6703.4 | 6183.4 | 5704.6 | 5394.2 | 5278.2 | 5195.9 | 5188.4 |
| 15° | 8528.9 | 8398.0 | 7900.5 | 6927.9 | 6045.0 | 5491.4 | 5098.6 | 4877.9 | 4825.6 | 4833.0 | 4866.7 |
| 17.5° | 8607.5 | 8517.7 | 7646.1 | 6523.9 | 5555.0 | 4904.1 | 4720.8 | 4687.2 | 4735.8 | 4791.9 | 4806.9 |
| 20° | 8730.9 | 8588.7 | 7541.3 | 5974.0 | 4949.0 | 4537.5 | 4526.3 | 4646.0 | 4735.8 | 4818.1 | 4829.3 |
| 22.5° | 8989.0 | 8629.9 | 7200.9 | 5454.0 | 4533.8 | 4429.0 | 4537.5 | 4638.5 | 4776.9 | 4844.3 | 4784.4 |
| 25° | 9063.8 | 8540.1 | 6722.1 | 4829.3 | 4271.9 | 4361.7 | 4477.7 | 4616.1 | 4713.3 | 4750.7 | 4776.9 |
| 27.5° | 9127.4 | 8401.7 | 6075.0 | 4414.1 | 4189.6 | 4358.0 | 4477.7 | 4593.6 | 4646.0 | 4679.7 | 4709.6 |
| 30° | 9307.0 | 8360.6 | 5513.9 | 4137.3 | 4137.3 | 4283.2 | 4436.5 | 4466.4 | 4537.5 | 4578.7 | 4631.0 |
| 32.5° | 9396.7 | 8076.3 | 4937.8 | 3961.4 | 4084.9 | 4320.6 | 4331.8 | 4387.9 | 4391.6 | 4425.3 | 4369.2 |
| 35° | 9632.4 | 7874.3 | 4402.9 | 3834.3 | 4107.3 | 4283.2 | 4339.3 | 4305.6 | 4122.3 | 4032.5 | 4051.2 |
| 37.5° | 9804.5 | 7773.3 | 4017.6 | 3819.3 | 4111.1 | 4324.3 | 4354.2 | 4099.9 | 3909.1 | 3759.4 | 3796.9 |
| 40° | 10268.3 | 7522.6 | 3725.8 | 3793.1 | 4144.7 | 4369.2 | 4286.9 | 4010.1 | 3665.9 | 3512.6 | 3486.4 |
| 42.5° | 10623.7 | 7343.1 | 3542.5 | 3763.2 | 4170.9 | 4432.8 | 4253.2 | 3830.5 | 3478.9 | 3336.7 | 3374.2 |
| 45° | 11035.2 | 7301.9 | 3445.2 | 3770.7 | 4215.8 | 4466.4 | 4212.1 | 3692.1 | 3318.0 | 3261.9 | 3250.7 |
| 47.5° | 11181.1 | 7006.4 | 3340.5 | 3707.1 | 4204.6 | 4455.2 | 4073.7 | 3587.4 | 3258.2 | 3265.7 | 3295.6 |
| 50° | 10937.9 | 6703.4 | 3261.9 | 3576.2 | 4129.8 | 4354.2 | 3856.7 | 3449.0 | 3224.5 | 3318.0 | 3370.4 |
| 52.5° | 10627.5 | 6392.9 | 3101.1 | 3400.3 | 3976.4 | 4197.1 | 3755.7 | 3441.5 | 3190.9 | 3160.9 | 3172.2 |
| 55° | 10721.0 | 6138.6 | 2876.6 | 3160.9 | 3729.5 | 3905.3 | 3643.5 | 3370.4 | 3108.6 | 2996.3 | 3033.7 |
| 56° | 10418.0 | 5876.7 | 2730.7 | 3011.3 | 3561.2 | 3718.3 | 3587.4 | 3306.8 | 3041.2 | 2966.4 | 2966.4 |
| 57.5° | 9561.3 | 4997.6 | 2540.0 | 2771.9 | 3205.8 | 3392.9 | 3478.9 | 3269.4 | 2966.4 | 2835.5 | 2839.2 |
| 60° | 7051.3 | 3553.7 | 2278.1 | 2442.7 | 2655.9 | 2805.6 | 3205.8 | 3164.7 | 2779.4 | 2689.6 | 2655.9 |
| 62.5° | 4346.7 | 2596.1 | 2091.1 | 2154.7 | 2263.2 | 2386.6 | 2798.1 | 2865.4 | 2581.1 | 2483.9 | 2461.4 |
| 65° | 2435.2 | 1986.3 | 1948.9 | 1975.1 | 2027.5 | 2091.1 | 2323.0 | 2472.6 | 2278.1 | 2128.5 | 2121.0 |
| 67.5° | 1780.6 | 1776.9 | 1806.8 | 1829.2 | 1851.7 | 1851.7 | 1907.8 | 1967.6 | 1941.4 | 1821.7 | 1810.5 |
| 70° | 1582.3 | 1593.6 | 1616.0 | 1619.7 | 1627.2 | 1601.0 | 1556.1 | 1537.4 | 1567.4 | 1492.6 | 1477.6 |
| 72.5° | 1305.5 | 1342.9 | 1369.1 | 1372.9 | 1331.7 | 1298.0 | 1238.2 | 1174.6 | 1152.1 | 1137.2 | 1133.4 |
| 75° | 1002.5 | 1028.7 | 1039.9 | 1036.2 | 1021.2 | 972.6 | 901.5 | 837.9 | 796.8 | 751.9 | 774.3 |
| 77.5° | 677.1 | 714.5 | 733.2 | 733.2 | 710.7 | 635.9 | 602.3 | 553.6 | 512.5 | 463.9 | 471.3 |
| 80° | 475.1 | 501.3 | 531.2 | 527.4 | 490.0 | 452.6 | 404.0 | 359.1 | 325.4 | 288.0 | 284.3 |
| 82.5° | 355.4 | 370.3 | 385.3 | 377.8 | 351.6 | 314.2 | 280.6 | 239.4 | 202.0 | 175.8 | 175.8 |
| 85° | 127.2 | 138.4 | 168.3 | 175.8 | 190.8 | 190.8 | 160.9 | 134.7 | 108.5 | 89.8 | 89.8 |
| 87.5° | 37.4 | 37.4 | 41.1 | 41.1 | 37.4 | 41.1 | 33.7 | 37.4 | 41.1 | 26.2 | 26.2 |
| 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)