

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: P534150

Luminaire Tested: **GALN-SA9C-827-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534150
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-SA9C-827-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA 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: 41355 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

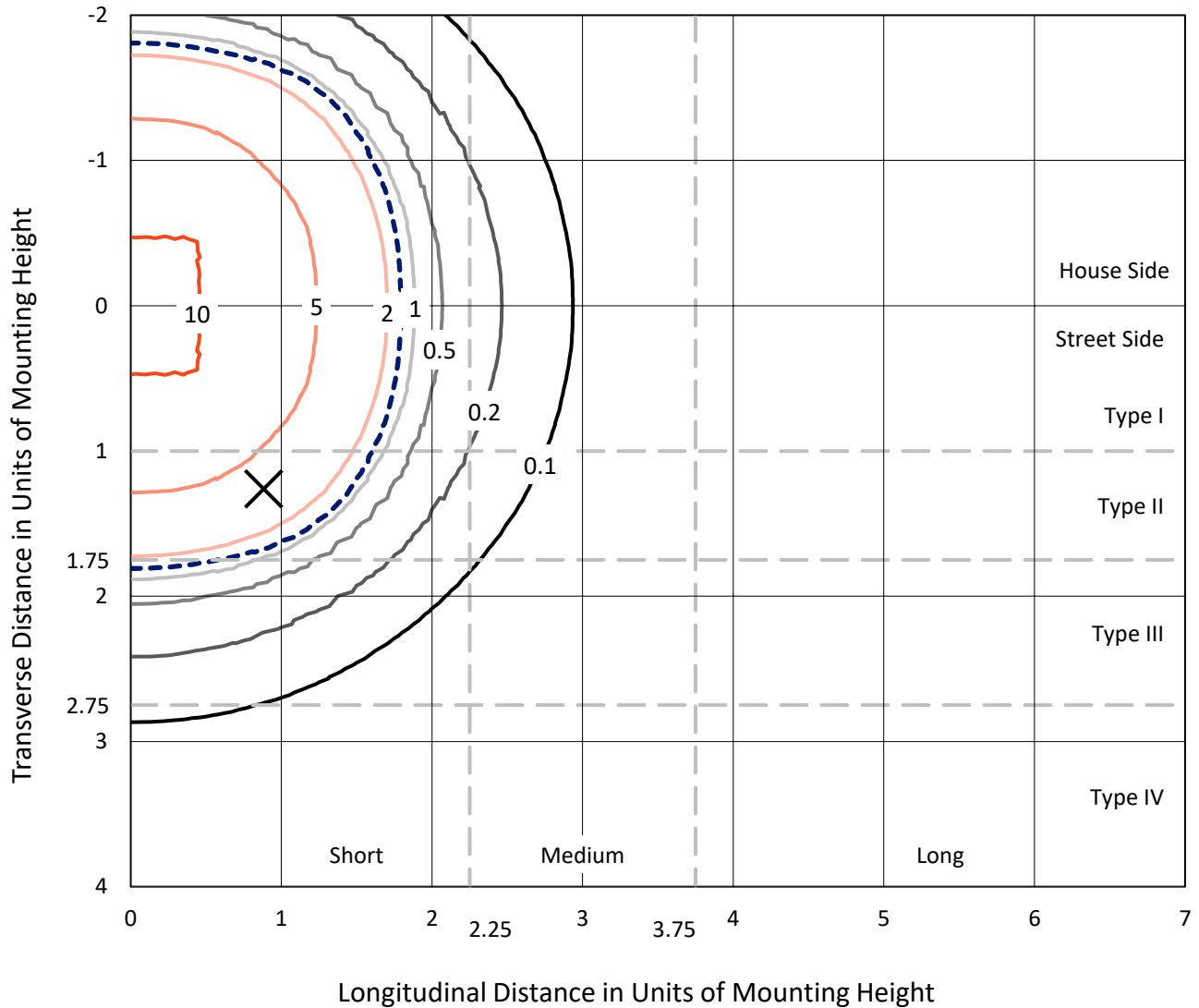
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P534150
 CATALOG NUMBER: GALN-SA9C-827-U-5MQ-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

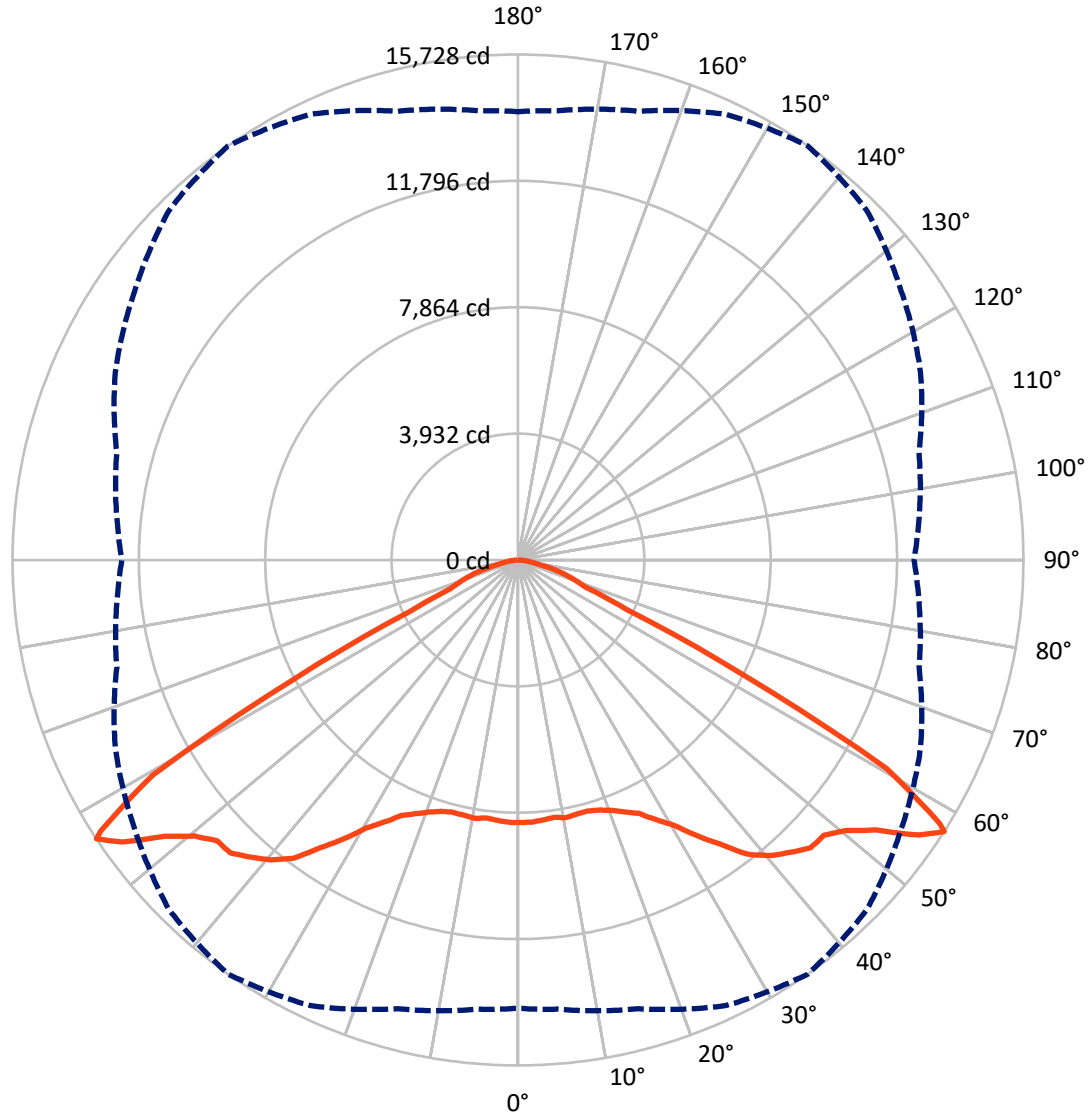
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type V - Short - N/A

REPORT NUMBER: P534150
CATALOG NUMBER: GALN-SA9C-827-U-5MQ-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P534150
 CATALOG NUMBER: GALN-SA9C-827-U-5MQ-GRSWH

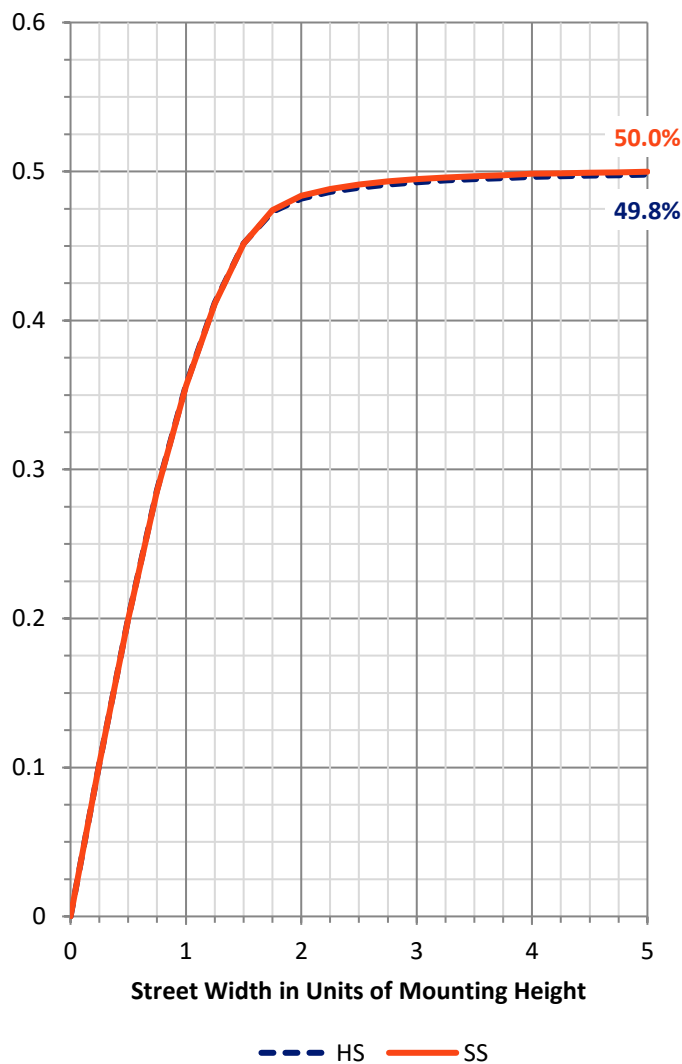
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 20677.5 | 0.0 | 20677.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 20677.5 | 0.0 | 20677.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 41355.0 | 0.0 | 41355.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 774.3 | 1.9 |
| 10°-20° | 2293.2 | 5.5 |
| 20°-30° | 4005.1 | 9.7 |
| 30°-40° | 6562.5 | 15.9 |
| 40°-50° | 9622.1 | 23.3 |
| 50°-60° | 12119.8 | 29.3 |
| 60°-70° | 4558.2 | 11.0 |
| 70°-80° | 1212.0 | 2.9 |
| 80°-90° | 207.8 | 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° | 41355.0 | 100.0 |
| 0°-180° | 41355.0 | 100.0 |

Coefficient of Utilization

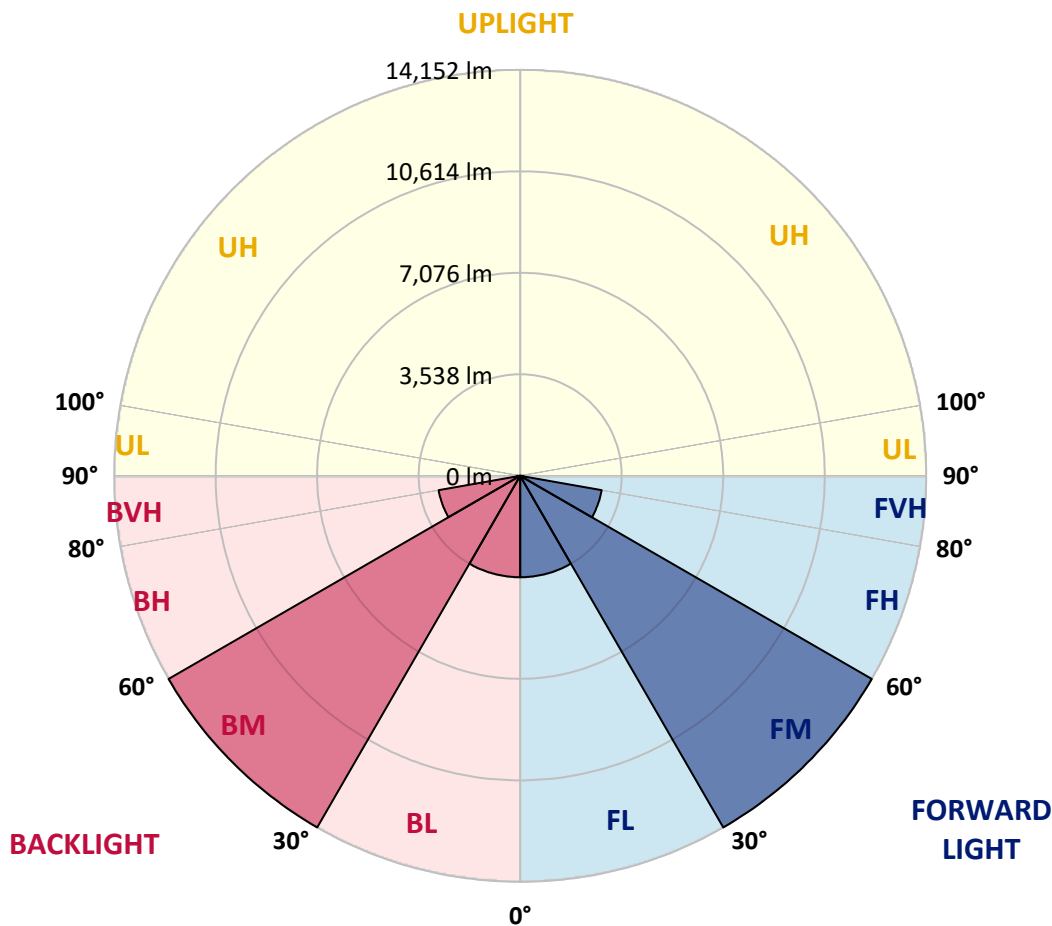


REPORT NUMBER: P534150
 CATALOG NUMBER: GALN-SA9C-827-U-5MQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3536.3 | 8.6 | | | |
| FM (30°-60°) | 14152.2 | 34.2 | | | |
| FH (60°-80°) | 2885.1 | 7.0 | | | G2/5000 |
| FVH (80°-90°) | 103.9 | 0.3 | | | G2/225 |
| BL (0°-30°) | 3536.3 | 8.6 | B4/5000 | | |
| BM (30°-60°) | 14152.2 | 34.2 | B5 | | |
| BH (60°-80°) | 2885.1 | 7.0 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 103.9 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G2
 Type V Short





REPORT NUMBER: P534150

CATALOG NUMBER: GALN-SA9C-827-U-5MQ-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8167.3 | 8167.3 | 8167.3 | 8167.3 | 8167.3 | 8167.3 | 8167.3 | 8167.3 | 8167.3 | 8167.3 | 8167.3 |
| 2.5° | 8126.5 | 8208.1 | 8172.4 | 8152.0 | 8167.3 | 8141.8 | 8101.1 | 8146.9 | 8136.7 | 8096.0 | 8080.7 |
| 5° | 8106.2 | 8167.3 | 8126.5 | 8167.3 | 8126.5 | 8197.9 | 8177.5 | 8101.1 | 8192.8 | 8106.2 | 8136.7 |
| 7.5° | 8090.9 | 8111.3 | 8121.5 | 8101.1 | 8085.8 | 8172.4 | 8126.5 | 8090.9 | 8039.9 | 8024.6 | 8050.1 |
| 10° | 8055.2 | 8106.2 | 8029.7 | 8131.6 | 8152.0 | 8090.9 | 8090.9 | 8024.6 | 7983.9 | 7958.4 | 8045.0 |
| 12.5° | 8146.9 | 8060.3 | 8050.1 | 8101.1 | 8116.4 | 8141.8 | 8070.5 | 8034.8 | 7958.4 | 7968.6 | 7953.3 |
| 15° | 8039.9 | 8075.6 | 8080.7 | 8090.9 | 8106.2 | 8167.3 | 8101.1 | 8024.6 | 7994.1 | 7887.1 | 7897.3 |
| 17.5° | 8080.7 | 8045.0 | 8080.7 | 8197.9 | 8177.5 | 8223.4 | 8152.0 | 8034.8 | 7963.5 | 7902.4 | 7983.9 |
| 20° | 8152.0 | 8136.7 | 8152.0 | 8294.7 | 8320.2 | 8360.9 | 8299.8 | 8192.8 | 8055.2 | 7983.9 | 8024.6 |
| 22.5° | 8228.4 | 8218.3 | 8228.4 | 8366.0 | 8513.8 | 8564.7 | 8503.6 | 8253.9 | 8182.6 | 8050.1 | 8004.3 |
| 25° | 8366.0 | 8376.2 | 8483.2 | 8636.0 | 8732.9 | 8829.7 | 8717.6 | 8539.2 | 8310.0 | 8228.4 | 8131.6 |
| 27.5° | 8671.7 | 8697.2 | 8758.3 | 8982.5 | 9150.6 | 9237.3 | 9079.3 | 8834.8 | 8692.1 | 8524.0 | 8498.5 |
| 30° | 9048.7 | 9048.7 | 9155.7 | 9349.4 | 9578.6 | 9711.1 | 9517.5 | 9227.1 | 9053.8 | 8962.1 | 8906.1 |
| 32.5° | 9548.1 | 9492.0 | 9532.8 | 9874.1 | 10230.8 | 10342.9 | 10083.0 | 9726.4 | 9451.3 | 9329.0 | 9288.2 |
| 35° | 9976.0 | 10011.7 | 10103.4 | 10470.3 | 10867.7 | 11127.5 | 10719.9 | 10256.3 | 9976.0 | 9863.9 | 9843.6 |
| 37.5° | 10531.4 | 10592.5 | 10638.4 | 11142.8 | 11621.7 | 11718.5 | 11326.2 | 10954.3 | 10612.9 | 10521.2 | 10470.3 |
| 40° | 11316.0 | 11275.3 | 11290.6 | 11662.5 | 12095.6 | 12156.7 | 11769.5 | 11504.5 | 11224.3 | 11168.3 | 11168.3 |
| 42.5° | 11963.1 | 11917.2 | 11968.2 | 12105.8 | 12436.9 | 12391.1 | 12177.1 | 11983.5 | 11866.3 | 11805.1 | 11866.3 |
| 45° | 12355.4 | 12345.2 | 12436.9 | 12538.8 | 12773.2 | 12620.4 | 12452.2 | 12482.8 | 12370.7 | 12268.8 | 12263.7 |
| 47.5° | 12783.4 | 12717.2 | 12829.2 | 12982.1 | 12803.8 | 12732.4 | 12722.3 | 12788.5 | 12752.8 | 12574.5 | 12518.4 |
| 50° | 12992.3 | 12966.8 | 13145.1 | 13323.5 | 13226.7 | 13063.6 | 13099.3 | 13206.3 | 12747.7 | 12508.3 | 12370.7 |
| 52.5° | 13552.7 | 13557.8 | 13899.2 | 13996.0 | 13955.2 | 13715.8 | 13792.2 | 13501.8 | 12961.7 | 12625.4 | 12640.7 |
| 55° | 14434.2 | 14398.5 | 14780.6 | 15066.0 | 15111.8 | 14806.1 | 14439.3 | 14031.7 | 13354.0 | 13012.7 | 12910.8 |
| 57° | 13950.1 | 14031.7 | 14454.6 | 15300.3 | 15728.3 | 15366.6 | 14566.6 | 13822.8 | 12921.0 | 12508.3 | 12324.8 |
| 57.5° | 13303.1 | 13435.6 | 14169.2 | 15020.1 | 15468.5 | 15437.9 | 14408.7 | 13435.6 | 12630.5 | 11988.6 | 12003.9 |
| 60° | 9746.8 | 9772.2 | 10434.6 | 11784.8 | 13185.9 | 13216.5 | 11963.1 | 10674.1 | 9777.3 | 9079.3 | 9176.1 |
| 62.5° | 5140.9 | 5258.1 | 5523.0 | 6608.2 | 7820.8 | 8116.4 | 7357.2 | 6694.8 | 5920.4 | 5390.5 | 5441.5 |
| 65° | 2720.7 | 2705.5 | 2832.8 | 3138.5 | 3734.6 | 3887.5 | 3785.6 | 3260.8 | 2990.8 | 2904.2 | 2909.3 |
| 67.5° | 2211.2 | 2236.7 | 2221.4 | 2236.7 | 2277.5 | 2343.7 | 2328.4 | 2348.8 | 2364.1 | 2389.6 | 2384.5 |
| 70° | 1875.0 | 1875.0 | 1885.2 | 1890.3 | 1890.3 | 1920.8 | 1956.5 | 2022.7 | 2027.8 | 2053.3 | 2063.5 |
| 72.5° | 1477.6 | 1467.4 | 1482.6 | 1518.3 | 1523.4 | 1548.9 | 1599.8 | 1640.6 | 1655.9 | 1655.9 | 1625.3 |
| 75° | 1003.7 | 1013.9 | 1034.3 | 1064.9 | 1095.4 | 1141.3 | 1182.0 | 1207.5 | 1217.7 | 1202.4 | 1187.1 |
| 77.5° | 565.5 | 575.7 | 591.0 | 636.9 | 672.5 | 713.3 | 759.2 | 784.6 | 810.1 | 815.2 | 784.6 |
| 80° | 336.3 | 336.3 | 361.7 | 397.4 | 438.2 | 478.9 | 519.7 | 550.3 | 560.5 | 560.5 | 545.2 |
| 82.5° | 203.8 | 208.9 | 229.3 | 264.9 | 300.6 | 326.1 | 361.7 | 387.2 | 407.6 | 402.5 | 392.3 |
| 85° | 107.0 | 107.0 | 127.4 | 157.9 | 183.4 | 208.9 | 208.9 | 193.6 | 183.4 | 157.9 | 147.8 |
| 87.5° | 35.7 | 30.6 | 40.8 | 40.8 | 35.7 | 40.8 | 40.8 | 45.9 | 45.9 | 45.9 | 45.9 |
| 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)