

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: P457688

Luminaire Tested: **GALN-SA9A-740-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-740-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41385 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

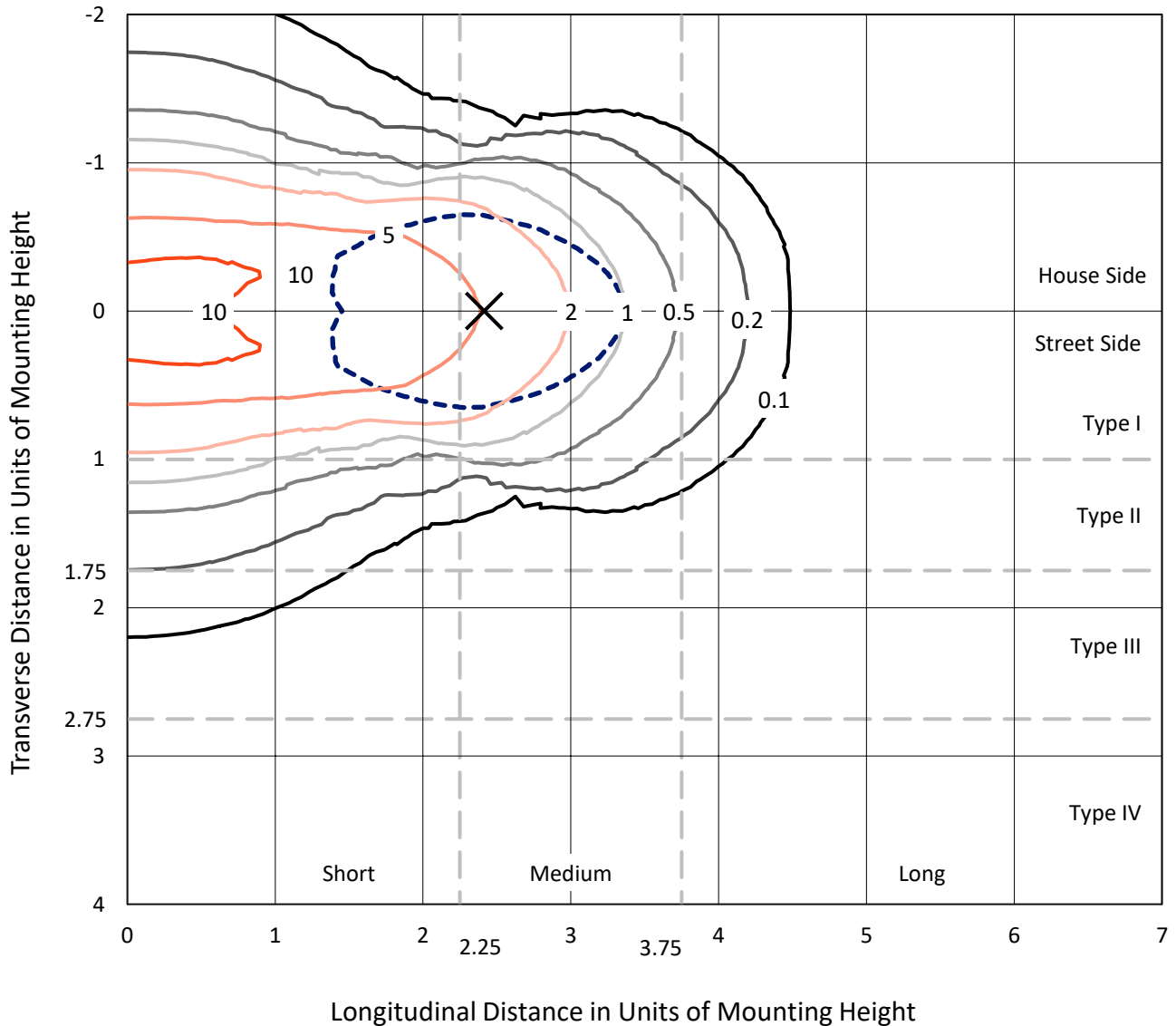
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

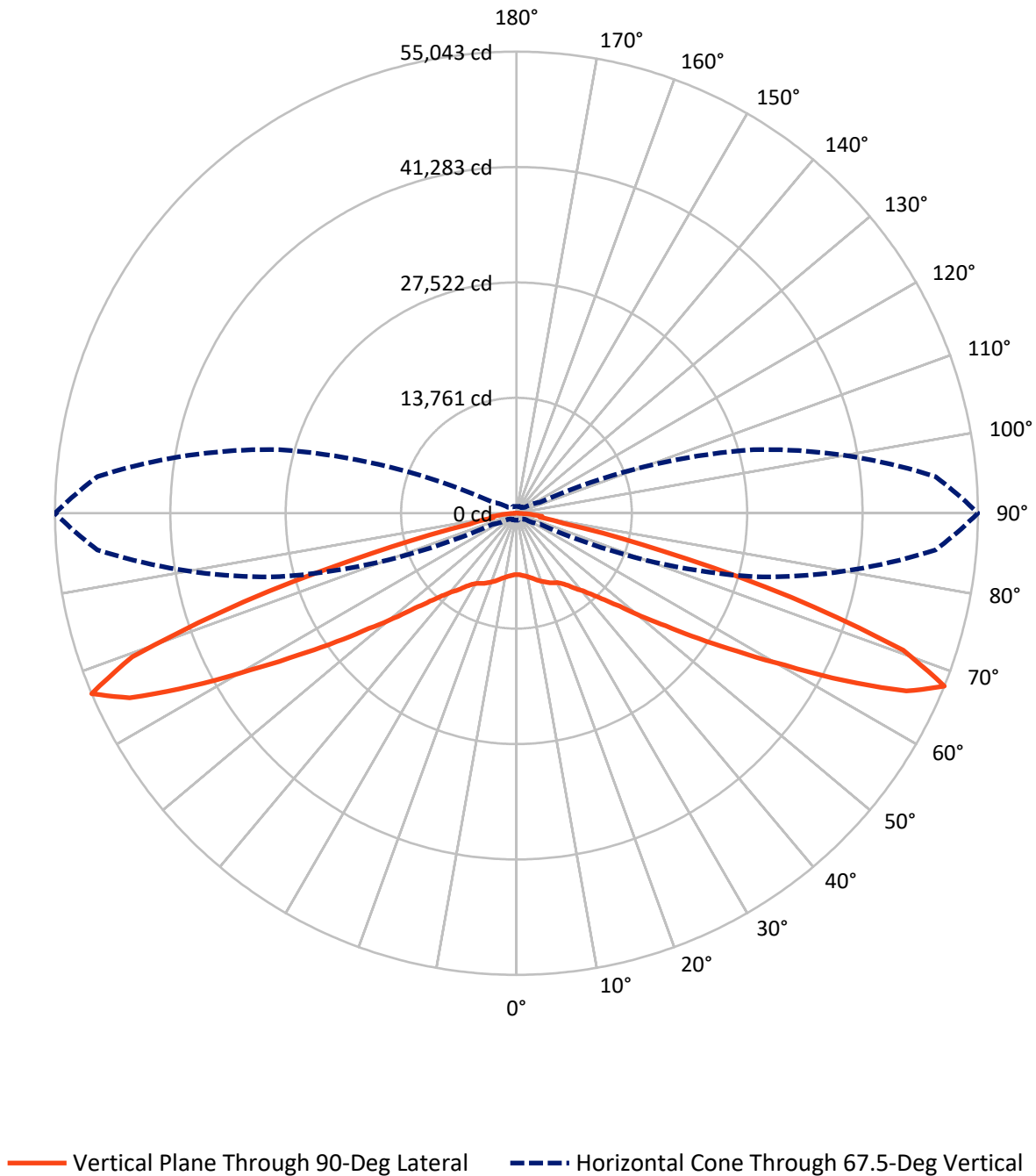
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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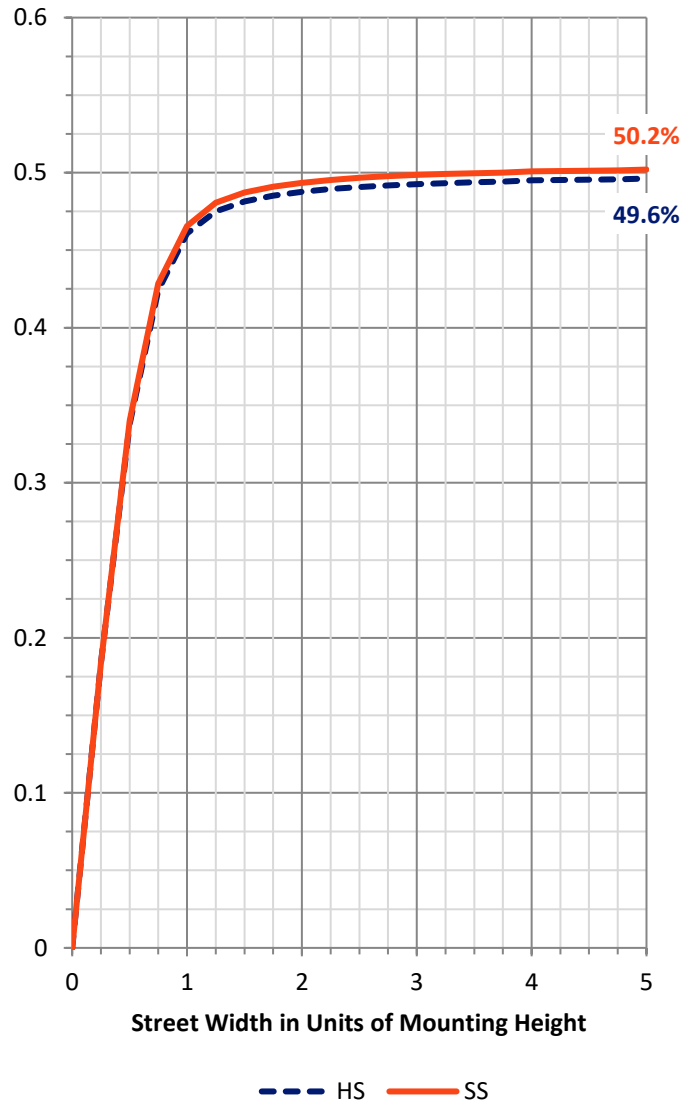
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 20692.5 | 0.0 | 20692.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 20692.5 | 0.0 | 20692.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 41385.0 | 0.0 | 41385.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 730.4 | 1.8 |
| 10°-20° | 2337.0 | 5.6 |
| 20°-30° | 3911.6 | 9.5 |
| 30°-40° | 5299.2 | 12.8 |
| 40°-50° | 6712.3 | 16.2 |
| 50°-60° | 8385.3 | 20.3 |
| 60°-70° | 9856.6 | 23.8 |
| 70°-80° | 3770.6 | 9.1 |
| 80°-90° | 382.0 | 0.9 |
| 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° | 41385.0 | 100.0 |
| 0°-180° | 41385.0 | 100.0 |

Coefficient of Utilization



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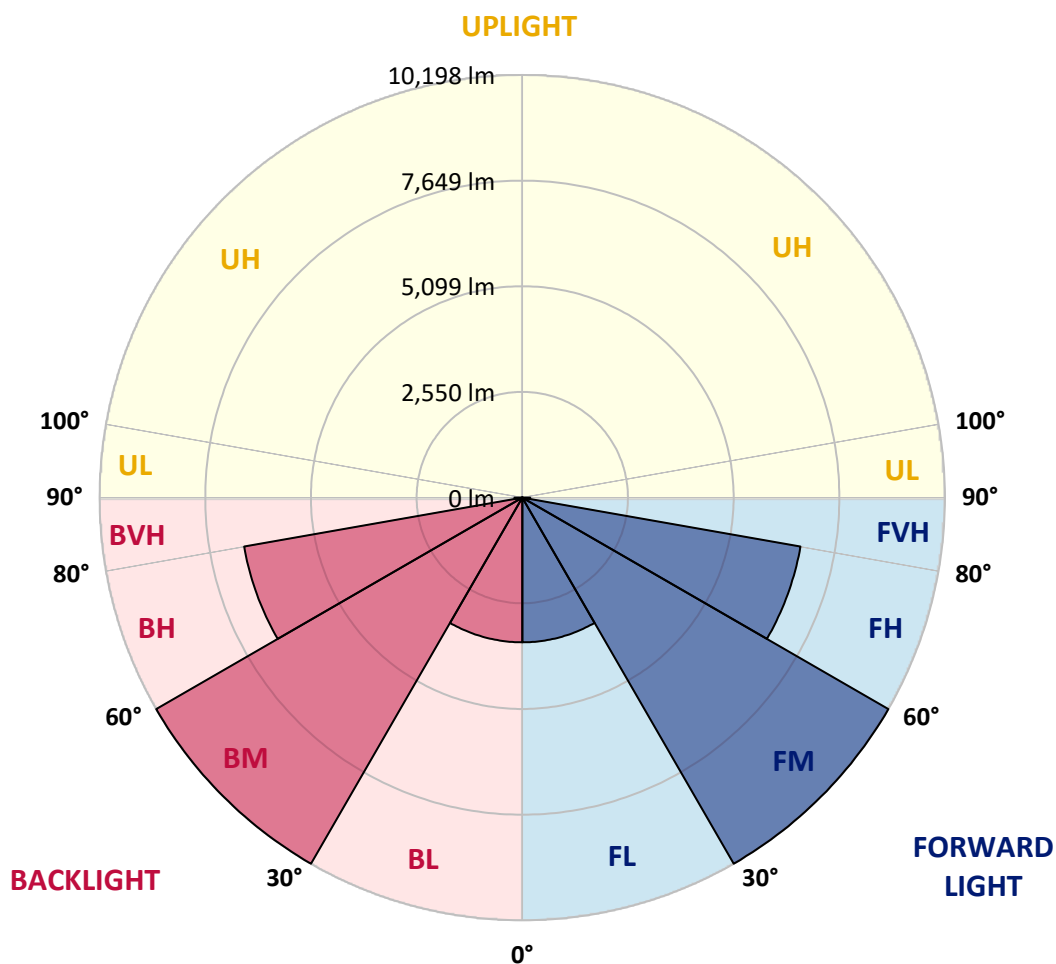
CATALOG NUMBER: GALN-SA9A-740-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 3489.5 | 8.4 | | | |
| FM | (30°-60°) | 10198.4 | 24.6 | | | |
| FH | (60°-80°) | 6813.6 | 16.5 | | | G3/7500 |
| FVH | (80°-90°) | 191.0 | 0.5 | | | G2/225 |
| BL | (0°-30°) | 3489.5 | 8.4 | B4/5000 | | |
| BM | (30°-60°) | 10198.4 | 24.6 | B5 | | |
| BH | (60°-80°) | 6813.6 | 16.5 | B5 | | G5 |
| BVH | (80°-90°) | 191.0 | 0.5 | | | G2/225 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0° | 7326.4 | 7326.4 | 7326.4 | 7326.4 | 7326.4 | 7326.4 | 7326.4 | 7326.4 | 7326.4 | 7326.4 | 7326.4 |
| 2.5° | 7420.4 | 7415.8 | 7418.1 | 7415.8 | 7422.7 | 7418.1 | 7390.6 | 7367.7 | 7349.4 | 7351.6 | 7344.8 |
| 5° | 7578.5 | 7580.8 | 7583.1 | 7571.6 | 7587.7 | 7578.5 | 7535.0 | 7498.3 | 7461.6 | 7447.9 | 7443.3 |
| 7.5° | 7709.1 | 7720.6 | 7727.5 | 7738.9 | 7766.4 | 7766.4 | 7743.5 | 7690.8 | 7610.6 | 7564.8 | 7562.5 |
| 10° | 7839.8 | 7848.9 | 7869.6 | 7906.2 | 7952.1 | 7995.6 | 7986.4 | 7915.4 | 7812.3 | 7734.3 | 7716.0 |
| 12.5° | 7885.6 | 7897.1 | 7965.8 | 8071.2 | 8174.3 | 8259.1 | 8259.1 | 8201.8 | 8068.9 | 7949.8 | 7915.4 |
| 15° | 7725.2 | 7745.8 | 7869.6 | 8094.1 | 8364.6 | 8550.2 | 8591.4 | 8511.2 | 8369.1 | 8185.8 | 8144.6 |
| 17.5° | 7406.6 | 7457.1 | 7638.1 | 7970.4 | 8419.6 | 8804.6 | 8923.7 | 8884.8 | 8701.4 | 8467.7 | 8419.6 |
| 20° | 7065.2 | 7120.2 | 7312.7 | 7752.7 | 8373.7 | 8953.5 | 9299.6 | 9308.7 | 9081.8 | 8742.7 | 8671.6 |
| 22.5° | 6689.4 | 6730.6 | 6978.1 | 7493.7 | 8236.2 | 8987.9 | 9622.7 | 9780.8 | 9473.7 | 9017.7 | 8916.8 |
| 25° | 6267.7 | 6313.5 | 6572.5 | 7129.4 | 7977.3 | 8948.9 | 9918.3 | 10266.6 | 9883.9 | 9311.0 | 9182.7 |
| 27.5° | 5864.4 | 5882.7 | 6160.0 | 6726.0 | 7635.8 | 8848.1 | 10136.0 | 10713.5 | 10337.7 | 9553.9 | 9391.2 |
| 30° | 5477.1 | 5520.6 | 5765.8 | 6325.0 | 7243.9 | 8651.0 | 10323.9 | 11222.3 | 10825.8 | 9808.3 | 9599.8 |
| 32.5° | 5066.9 | 5119.6 | 5385.4 | 5951.4 | 6852.1 | 8355.4 | 10438.5 | 11779.1 | 11506.4 | 10220.8 | 9998.5 |
| 35° | 4672.7 | 4707.1 | 4975.2 | 5525.2 | 6469.4 | 8011.6 | 10459.1 | 12407.0 | 12384.1 | 10846.4 | 10550.8 |
| 37.5° | 4269.4 | 4319.8 | 4590.2 | 5117.3 | 6063.7 | 7647.3 | 10356.0 | 13073.9 | 13442.9 | 11715.0 | 11396.4 |
| 40° | 3882.1 | 3925.6 | 4191.4 | 4723.1 | 5603.1 | 7202.7 | 10110.8 | 13683.5 | 14678.1 | 12608.7 | 12157.3 |
| 42.5° | 3460.4 | 3471.9 | 3762.9 | 4303.7 | 5151.6 | 6687.1 | 9757.9 | 14226.6 | 16055.4 | 13807.2 | 13245.8 |
| 45° | 2981.4 | 3011.2 | 3281.7 | 3813.3 | 4633.7 | 6109.6 | 9278.9 | 14675.8 | 17801.6 | 15468.7 | 14703.3 |
| 47.5° | 2502.5 | 2527.7 | 2775.2 | 3300.0 | 4067.7 | 5447.3 | 8541.0 | 15069.9 | 19593.7 | 17579.3 | 16575.6 |
| 50° | 2035.0 | 2048.7 | 2250.4 | 2715.6 | 3430.6 | 4750.6 | 7626.6 | 15196.0 | 21619.5 | 20567.6 | 19286.6 |
| 52.5° | 1608.7 | 1629.4 | 1782.9 | 2147.3 | 2750.0 | 3927.9 | 6638.9 | 14884.3 | 23984.5 | 24110.5 | 22304.7 |
| 55° | 1304.0 | 1310.8 | 1425.4 | 1693.5 | 2149.6 | 3066.2 | 5447.3 | 14015.8 | 26528.2 | 28650.3 | 26347.2 |
| 57.5° | 1122.9 | 1127.5 | 1191.7 | 1340.6 | 1654.6 | 2312.3 | 4225.8 | 12372.7 | 28813.0 | 33969.3 | 31008.4 |
| 60° | 1019.8 | 1022.1 | 1058.7 | 1145.8 | 1310.8 | 1773.7 | 3027.3 | 10053.5 | 31068.0 | 39888.6 | 36801.8 |
| 62.5° | 955.6 | 955.6 | 980.8 | 1029.0 | 1109.2 | 1361.2 | 2193.1 | 7253.1 | 32612.6 | 45895.1 | 43942.6 |
| 65° | 893.7 | 893.7 | 912.1 | 946.5 | 990.0 | 1113.7 | 1620.2 | 4730.0 | 32573.6 | 50269.8 | 51124.6 |
| 67.5° | 822.7 | 822.7 | 836.5 | 870.8 | 896.0 | 957.9 | 1251.2 | 3098.3 | 29259.9 | 50173.6 | 55043.4 |
| 70° | 737.9 | 737.9 | 756.2 | 786.0 | 806.7 | 845.6 | 987.7 | 2119.8 | 21495.8 | 42840.3 | 48952.1 |
| 72.5° | 653.1 | 655.4 | 666.9 | 696.7 | 712.7 | 735.6 | 820.4 | 1485.0 | 13186.2 | 29170.5 | 34228.2 |
| 75° | 559.2 | 563.7 | 575.2 | 605.0 | 618.7 | 627.9 | 692.1 | 1058.7 | 6671.0 | 15727.7 | 17907.0 |
| 77.5° | 451.5 | 460.6 | 467.5 | 499.6 | 508.7 | 522.5 | 570.6 | 765.4 | 2928.7 | 5651.2 | 5701.6 |
| 80° | 330.0 | 341.5 | 362.1 | 391.9 | 398.7 | 407.9 | 435.4 | 543.1 | 1326.9 | 2580.4 | 2802.7 |
| 82.5° | 242.9 | 259.0 | 233.7 | 272.7 | 272.7 | 261.2 | 307.1 | 364.4 | 609.6 | 2555.2 | 3057.1 |
| 85° | 132.9 | 135.2 | 121.5 | 139.8 | 149.0 | 146.7 | 162.7 | 178.7 | 295.6 | 1705.0 | 1757.7 |
| 87.5° | 32.1 | 34.4 | 36.7 | 43.5 | 52.7 | 52.7 | 57.3 | 50.4 | 96.2 | 552.3 | 316.2 |
| 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)