

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: P533448

Luminaire Tested: **GALN-SA8D-827-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533448
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-SA8D-827-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 1200mA 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: 40533 lumens
Efficiency: N/A
Efficacy: 82.2 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

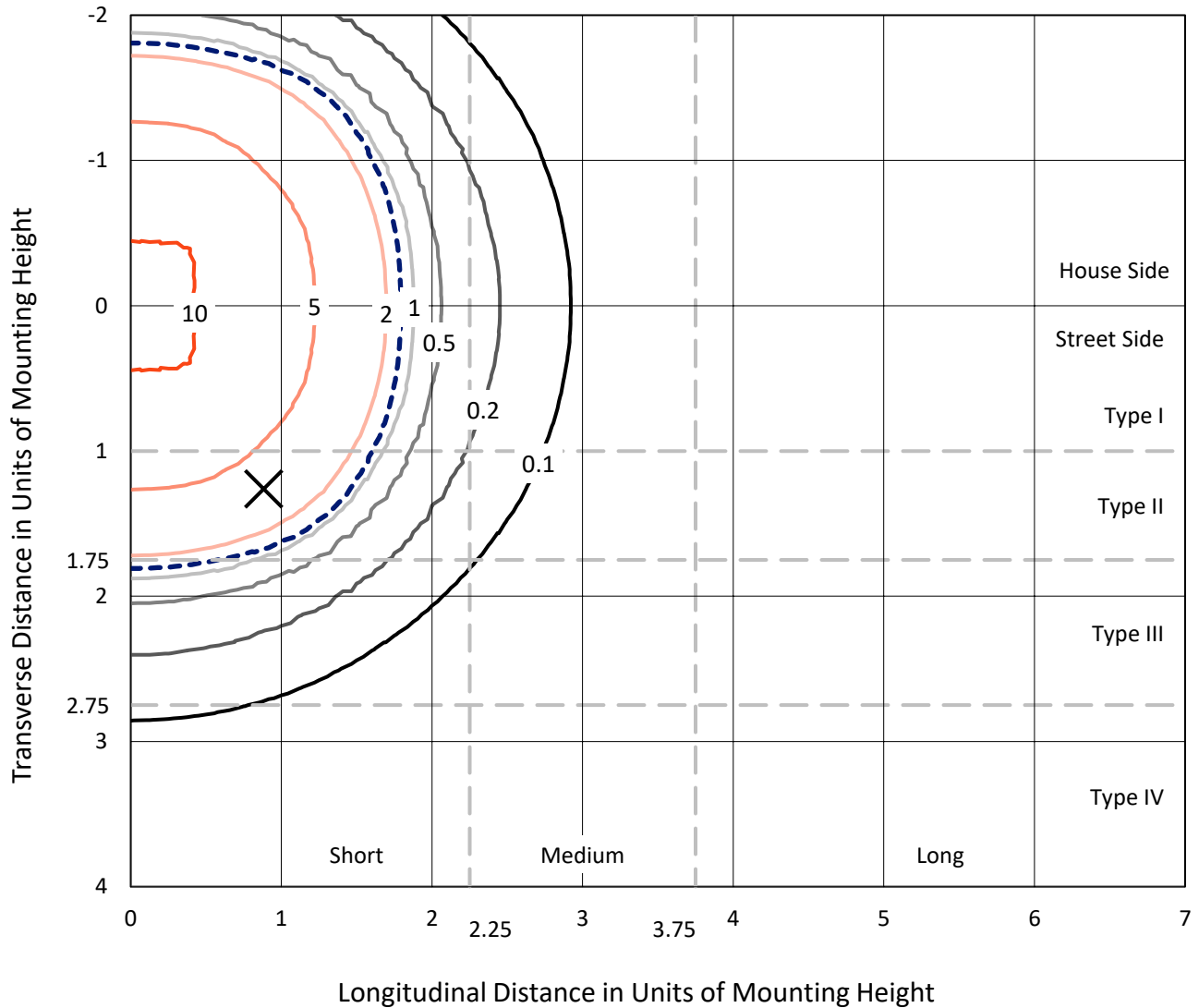
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533448
 CATALOG NUMBER: GALN-SA8D-827-U-5MQ-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

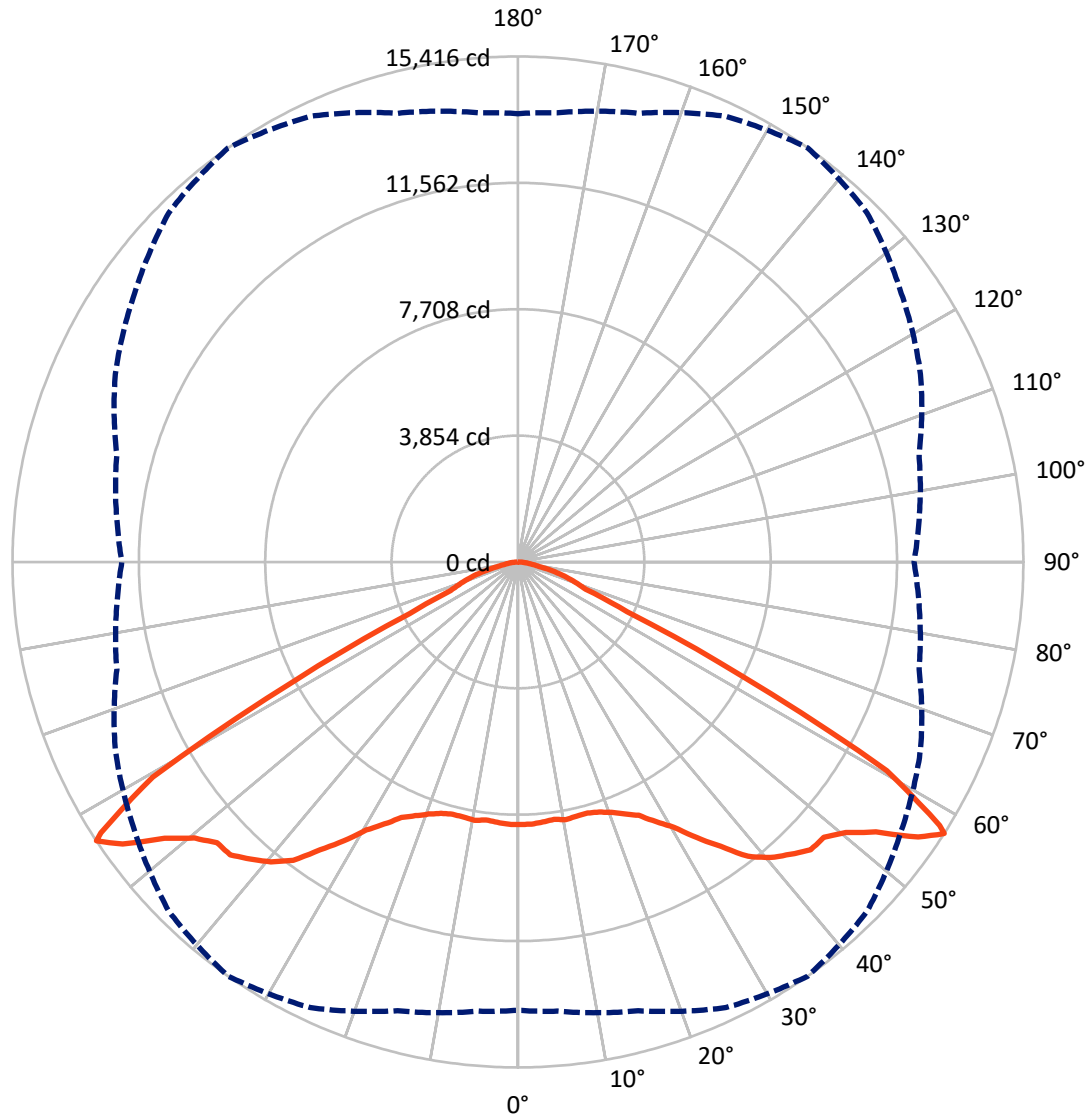
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type V - Short - N/A

REPORT NUMBER: P533448
CATALOG NUMBER: GALN-SA8D-827-U-5MQ-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P533448
 CATALOG NUMBER: GALN-SA8D-827-U-5MQ-GRSWH

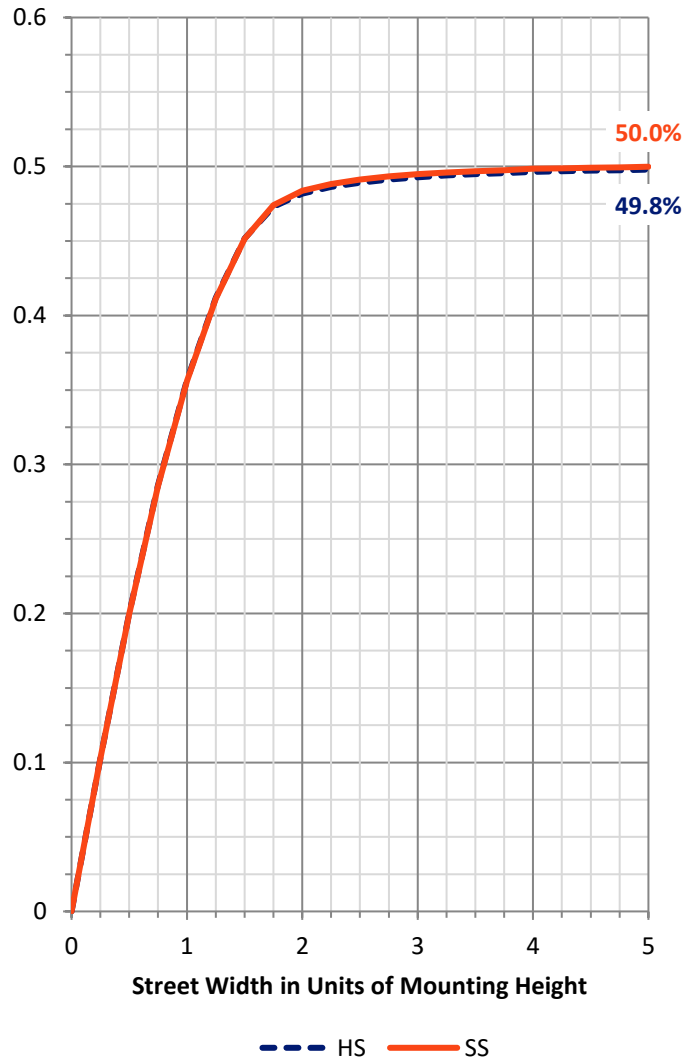
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 20266.5 | 0.0 | 20266.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 20266.5 | 0.0 | 20266.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 40533.0 | 0.0 | 40533.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 758.9 | 1.9 |
| 10°-20° | 2247.6 | 5.5 |
| 20°-30° | 3925.5 | 9.7 |
| 30°-40° | 6432.0 | 15.9 |
| 40°-50° | 9430.9 | 23.3 |
| 50°-60° | 11878.9 | 29.3 |
| 60°-70° | 4467.6 | 11.0 |
| 70°-80° | 1187.9 | 2.9 |
| 80°-90° | 203.7 | 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° | 40533.0 | 100.0 |
| 0°-180° | 40533.0 | 100.0 |

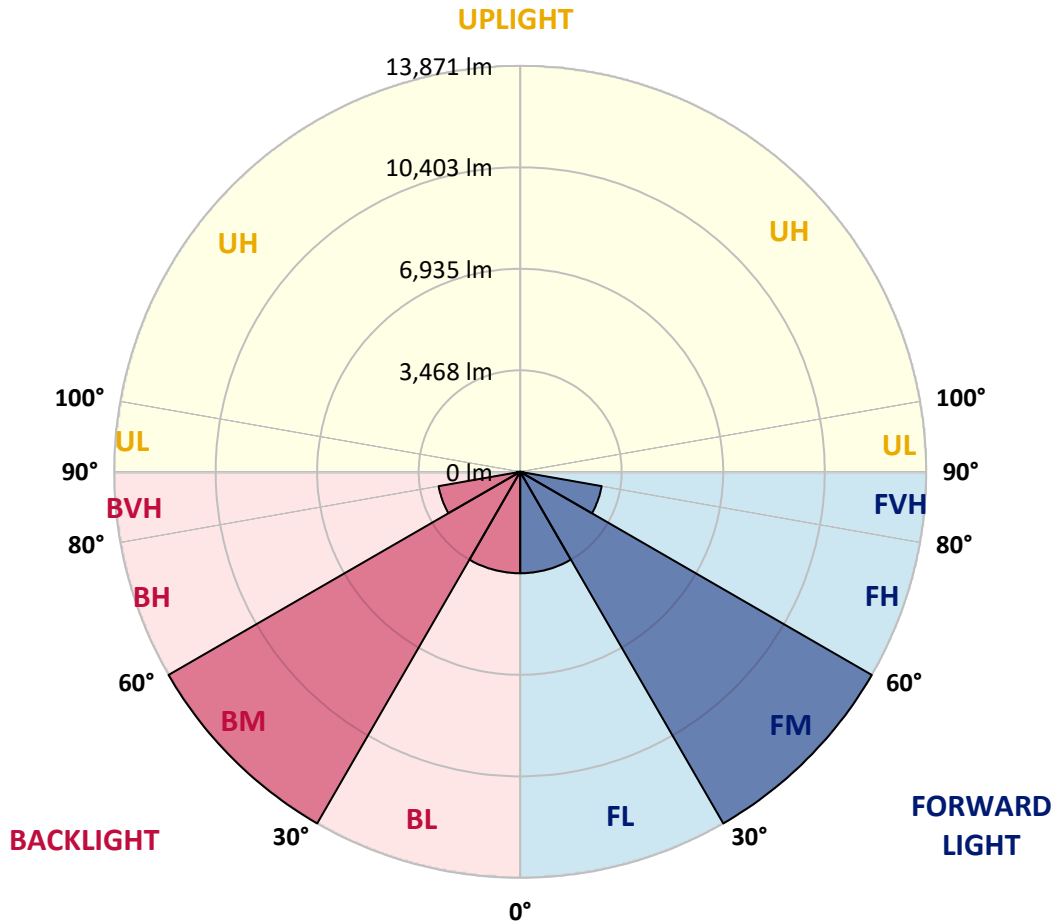


REPORT NUMBER: P533448
 CATALOG NUMBER: GALN-SA8D-827-U-5MQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3466.0 | 8.6 | | | |
| FM (30°-60°) | 13870.9 | 34.2 | | | |
| FH (60°-80°) | 2827.7 | 7.0 | | | G2/5000 |
| FVH (80°-90°) | 101.8 | 0.3 | | | G2/225 |
| BL (0°-30°) | 3466.0 | 8.6 | B4/5000 | | |
| BM (30°-60°) | 13870.9 | 34.2 | B5 | | |
| BH (60°-80°) | 2827.7 | 7.0 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 101.8 | 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: P533448

CATALOG NUMBER: GALN-SA8D-827-U-5MQ-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 8005.0 | 8005.0 | 8005.0 | 8005.0 | 8005.0 | 8005.0 | 8005.0 | 8005.0 | 8005.0 | 8005.0 | 8005.0 |
| 2.5° | 7965.0 | 8044.9 | 8010.0 | 7990.0 | 8005.0 | 7980.0 | 7940.1 | 7985.0 | 7975.0 | 7935.1 | 7920.1 |
| 5° | 7945.0 | 8005.0 | 7965.0 | 8005.0 | 7965.0 | 8034.9 | 8015.0 | 7940.1 | 8029.9 | 7945.0 | 7975.0 |
| 7.5° | 7930.1 | 7950.0 | 7960.0 | 7940.1 | 7925.1 | 8010.0 | 7965.0 | 7930.1 | 7880.1 | 7865.1 | 7890.1 |
| 10° | 7895.1 | 7945.0 | 7870.1 | 7970.0 | 7990.0 | 7930.1 | 7930.1 | 7865.1 | 7825.2 | 7800.2 | 7885.1 |
| 12.5° | 7985.0 | 7900.1 | 7890.1 | 7940.1 | 7955.0 | 7980.0 | 7910.1 | 7875.1 | 7800.2 | 7810.2 | 7795.2 |
| 15° | 7880.1 | 7915.1 | 7920.1 | 7930.1 | 7945.0 | 8005.0 | 7940.1 | 7865.1 | 7835.2 | 7730.3 | 7740.3 |
| 17.5° | 7920.1 | 7885.1 | 7920.1 | 8034.9 | 8015.0 | 8059.9 | 7990.0 | 7875.1 | 7805.2 | 7745.3 | 7825.2 |
| 20° | 7990.0 | 7975.0 | 7990.0 | 8129.8 | 8154.8 | 8194.7 | 8134.8 | 8029.9 | 7895.1 | 7825.2 | 7865.1 |
| 22.5° | 8064.9 | 8054.9 | 8064.9 | 8199.7 | 8344.5 | 8394.5 | 8334.6 | 8089.9 | 8020.0 | 7890.1 | 7845.2 |
| 25° | 8199.7 | 8209.7 | 8314.6 | 8464.4 | 8559.3 | 8654.2 | 8544.3 | 8369.5 | 8144.8 | 8064.9 | 7970.0 |
| 27.5° | 8499.3 | 8524.3 | 8584.2 | 8804.0 | 8968.8 | 9053.7 | 8898.8 | 8659.1 | 8519.3 | 8354.5 | 8329.6 |
| 30° | 8868.9 | 8868.9 | 8973.8 | 9163.5 | 9388.2 | 9518.1 | 9328.3 | 9043.7 | 8873.9 | 8784.0 | 8729.1 |
| 32.5° | 9358.3 | 9303.3 | 9343.3 | 9677.9 | 10027.4 | 10137.3 | 9882.6 | 9533.1 | 9263.4 | 9143.5 | 9103.6 |
| 35° | 9777.7 | 9812.7 | 9902.6 | 10262.1 | 10651.7 | 10906.3 | 10506.8 | 10052.4 | 9777.7 | 9667.9 | 9647.9 |
| 37.5° | 10322.1 | 10382.0 | 10426.9 | 10921.3 | 11390.7 | 11485.6 | 11101.1 | 10736.5 | 10402.0 | 10312.1 | 10262.1 |
| 40° | 11091.1 | 11051.2 | 11066.1 | 11430.7 | 11855.1 | 11915.1 | 11535.5 | 11275.9 | 11001.2 | 10946.3 | 10946.3 |
| 42.5° | 11725.3 | 11680.4 | 11730.3 | 11865.1 | 12189.7 | 12144.8 | 11935.0 | 11745.3 | 11630.4 | 11570.5 | 11630.4 |
| 45° | 12109.8 | 12099.8 | 12189.7 | 12289.6 | 12519.3 | 12369.5 | 12204.7 | 12234.7 | 12124.8 | 12024.9 | 12019.9 |
| 47.5° | 12529.3 | 12464.4 | 12574.2 | 12724.1 | 12549.3 | 12479.4 | 12469.4 | 12534.3 | 12499.3 | 12324.6 | 12269.6 |
| 50° | 12734.0 | 12709.1 | 12883.9 | 13058.6 | 12963.8 | 12804.0 | 12838.9 | 12943.8 | 12494.3 | 12259.6 | 12124.8 |
| 52.5° | 13283.4 | 13288.3 | 13622.9 | 13717.8 | 13677.9 | 13443.2 | 13518.1 | 13233.4 | 12704.1 | 12374.5 | 12389.5 |
| 55° | 14147.3 | 14112.3 | 14486.8 | 14766.5 | 14811.4 | 14511.8 | 14152.3 | 13752.8 | 13088.6 | 12754.0 | 12654.1 |
| 57° | 13672.9 | 13752.8 | 14167.2 | 14996.2 | 15415.7 | 15061.1 | 14277.1 | 13548.0 | 12664.1 | 12259.6 | 12079.9 |
| 57.5° | 13038.7 | 13168.5 | 13887.6 | 14721.6 | 15161.0 | 15131.0 | 14122.3 | 13168.5 | 12379.5 | 11750.3 | 11765.3 |
| 60° | 9553.0 | 9578.0 | 10227.2 | 11550.5 | 12923.8 | 12953.8 | 11725.3 | 10461.9 | 9583.0 | 8898.8 | 8993.7 |
| 62.5° | 5038.7 | 5153.5 | 5413.2 | 6476.9 | 7665.4 | 7955.0 | 7211.0 | 6561.8 | 5802.7 | 5283.4 | 5333.3 |
| 65° | 2666.7 | 2651.7 | 2776.5 | 3076.1 | 3660.4 | 3810.2 | 3710.4 | 3196.0 | 2931.3 | 2846.4 | 2851.4 |
| 67.5° | 2167.3 | 2192.3 | 2177.3 | 2192.3 | 2232.2 | 2297.1 | 2282.1 | 2302.1 | 2317.1 | 2342.1 | 2337.1 |
| 70° | 1837.7 | 1837.7 | 1847.7 | 1852.7 | 1852.7 | 1882.6 | 1917.6 | 1982.5 | 1987.5 | 2012.5 | 2022.5 |
| 72.5° | 1448.2 | 1438.2 | 1453.2 | 1488.1 | 1493.1 | 1518.1 | 1568.0 | 1608.0 | 1623.0 | 1623.0 | 1593.0 |
| 75° | 983.8 | 993.8 | 1013.7 | 1043.7 | 1073.7 | 1118.6 | 1158.5 | 1183.5 | 1193.5 | 1178.5 | 1163.5 |
| 77.5° | 554.3 | 564.3 | 579.3 | 624.2 | 659.2 | 699.1 | 744.1 | 769.0 | 794.0 | 799.0 | 769.0 |
| 80° | 329.6 | 329.6 | 354.6 | 389.5 | 429.5 | 469.4 | 509.4 | 539.3 | 549.3 | 549.3 | 534.3 |
| 82.5° | 199.7 | 204.7 | 224.7 | 259.7 | 294.6 | 319.6 | 354.6 | 379.5 | 399.5 | 394.5 | 384.5 |
| 85° | 104.9 | 104.9 | 124.8 | 154.8 | 179.8 | 204.7 | 204.7 | 189.8 | 179.8 | 154.8 | 144.8 |
| 87.5° | 35.0 | 30.0 | 39.9 | 39.9 | 35.0 | 39.9 | 39.9 | 44.9 | 44.9 | 44.9 | 44.9 |
| 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)