

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: P648587

Luminaire Tested: **GALN-SA8B-835-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-835-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31525.2 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

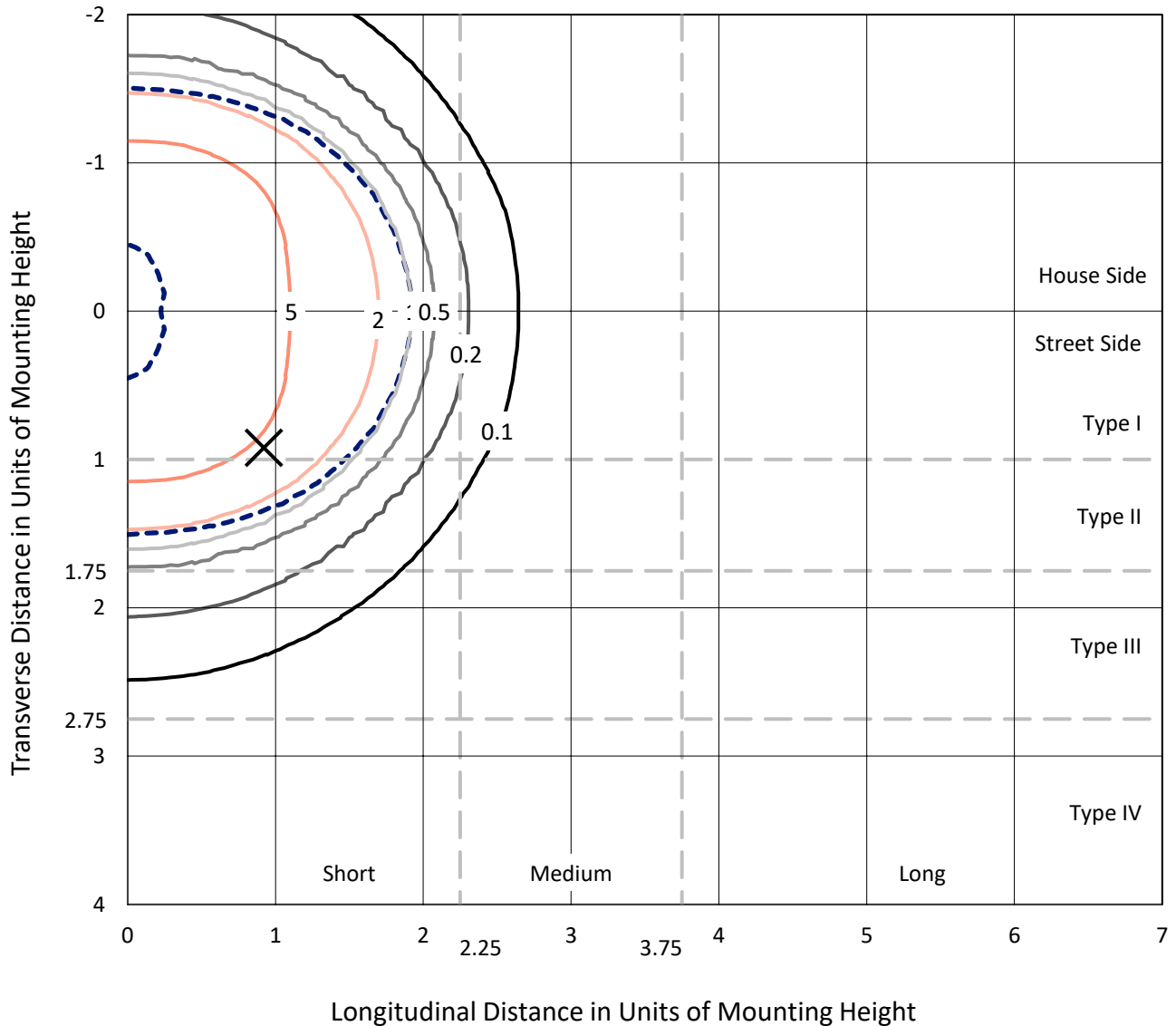
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648587
 CATALOG NUMBER: GALN-SA8B-835-U-RW-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

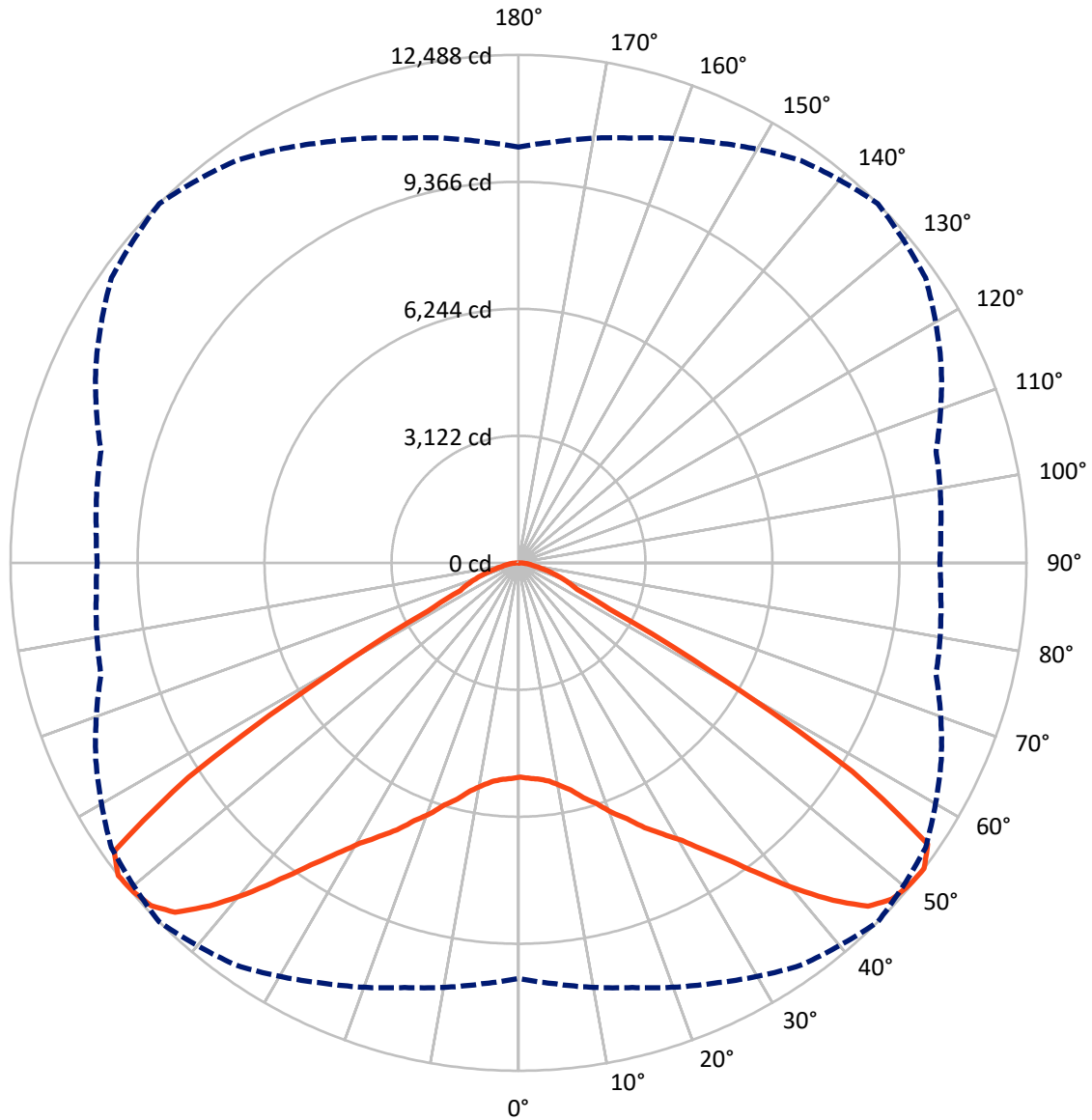
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type V - Short - N/A

REPORT NUMBER: P648587
CATALOG NUMBER: GALN-SA8B-835-U-RW-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

REPORT NUMBER: P648587
 CATALOG NUMBER: GALN-SA8B-835-U-RW-GRSWH

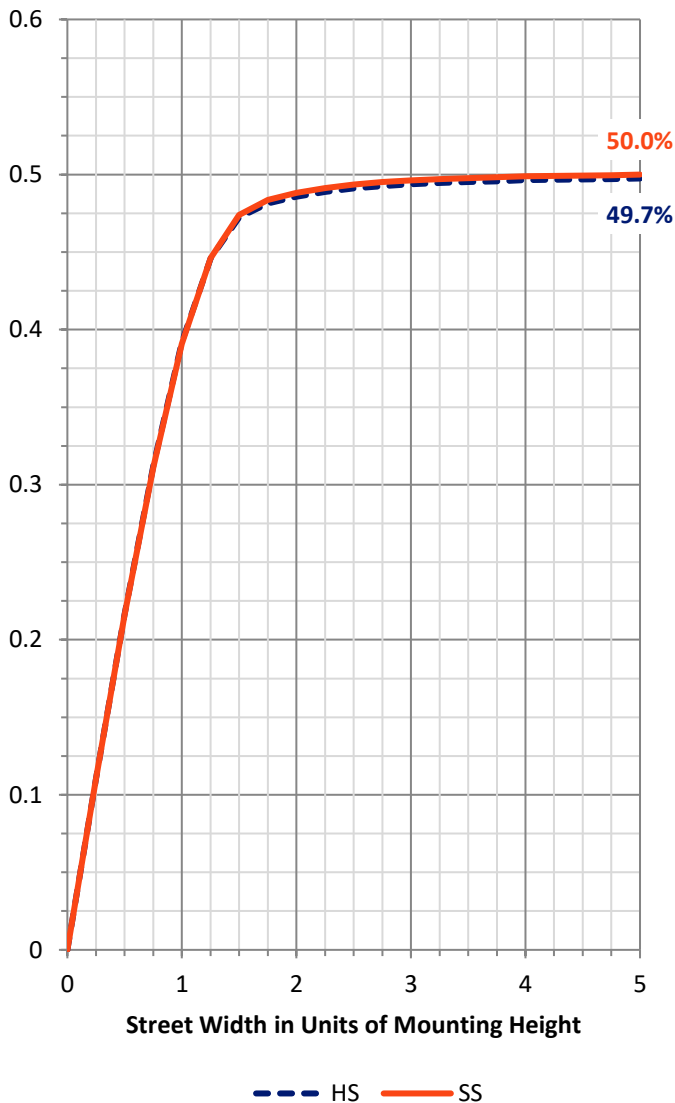
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 15762.6 | 0.0 | 15762.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 15762.6 | 0.0 | 15762.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 31525.2 | 0.0 | 31525.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 517.7 | 1.6 |
| 10°-20° | 1701.3 | 5.4 |
| 20°-30° | 3239.0 | 10.3 |
| 30°-40° | 5561.6 | 17.6 |
| 40°-50° | 8548.3 | 27.1 |
| 50°-60° | 8680.7 | 27.5 |
| 60°-70° | 2419.2 | 7.7 |
| 70°-80° | 713.6 | 2.3 |
| 80°-90° | 143.7 | 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° | 31525.2 | 100.0 |
| 0°-180° | 31525.2 | 100.0 |

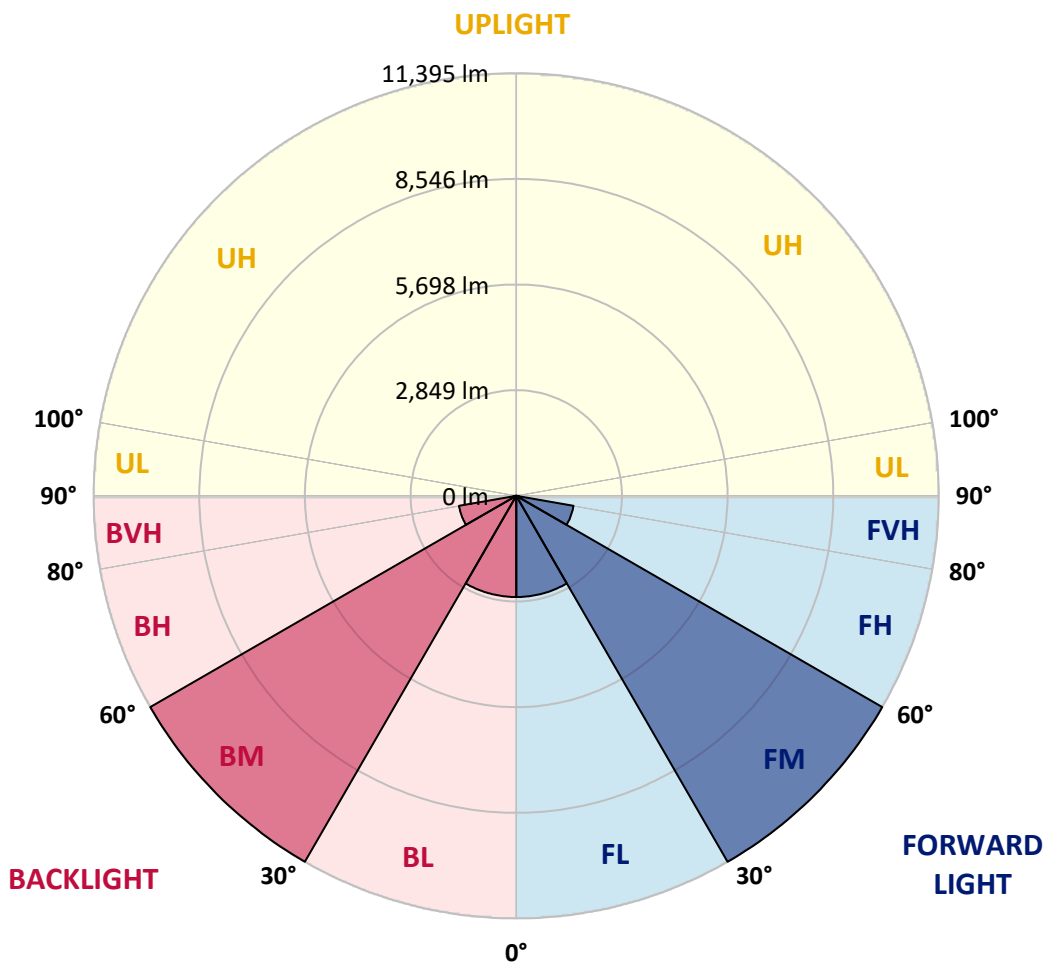


REPORT NUMBER: P648587
 CATALOG NUMBER: GALN-SA8B-835-U-RW-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2729.0 | 8.7 | | | |
| FM (30°-60°) | 11395.3 | 36.1 | | | |
| FH (60°-80°) | 1566.4 | 5.0 | | | G1/1800 |
| FVH (80°-90°) | 71.9 | 0.2 | | | G1/100 |
| BL (0°-30°) | 2729.0 | 8.7 | B4/5000 | | |
| BM (30°-60°) | 11395.3 | 36.1 | B5 | | |
| BH (60°-80°) | 1566.4 | 5.0 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 71.9 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G1
 Type V Short





REPORT NUMBER: P648587

CATALOG NUMBER: GALN-SA8B-835-U-RW-GRSWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5269.8 | 5269.8 | 5269.8 | 5269.8 | 5269.8 | 5269.8 | 5269.8 | 5269.8 | 5269.8 | 5269.8 | 5269.8 |
| 2.5° | 5281.6 | 5226.8 | 5246.3 | 5258.1 | 5309.0 | 5305.1 | 5293.3 | 5309.0 | 5324.6 | 5328.5 | 5320.7 |
| 5° | 5277.7 | 5238.6 | 5254.2 | 5265.9 | 5316.8 | 5344.2 | 5336.4 | 5402.9 | 5449.8 | 5438.1 | 5496.7 |
| 7.5° | 5246.3 | 5269.8 | 5250.2 | 5309.0 | 5352.0 | 5418.5 | 5488.9 | 5551.5 | 5610.2 | 5676.8 | 5688.5 |
| 10° | 5316.8 | 5316.8 | 5352.0 | 5398.9 | 5512.4 | 5563.3 | 5665.0 | 5755.0 | 5868.4 | 5946.7 | 5915.4 |
| 12.5° | 5391.1 | 5402.9 | 5402.9 | 5524.1 | 5618.0 | 5731.5 | 5825.4 | 5946.7 | 6107.1 | 6201.0 | 6247.9 |
| 15° | 5465.5 | 5473.2 | 5512.4 | 5676.8 | 5817.5 | 5997.5 | 6083.6 | 6193.1 | 6283.1 | 6459.2 | 6463.1 |
| 17.5° | 5532.0 | 5575.0 | 5692.3 | 5876.3 | 6052.3 | 6224.5 | 6361.4 | 6474.9 | 6553.1 | 6623.5 | 6607.8 |
| 20° | 5782.4 | 5813.6 | 5934.9 | 6118.8 | 6380.9 | 6549.2 | 6596.1 | 6615.6 | 6666.5 | 6807.4 | 6764.3 |
| 22.5° | 6025.0 | 6036.6 | 6150.1 | 6431.8 | 6615.6 | 6838.6 | 6889.5 | 6877.8 | 6897.4 | 6932.5 | 6995.2 |
| 25° | 6275.3 | 6294.9 | 6451.4 | 6690.0 | 6948.2 | 7214.2 | 7257.3 | 7167.3 | 7139.9 | 7179.0 | 7182.9 |
| 27.5° | 6596.1 | 6600.0 | 6799.6 | 7006.9 | 7300.3 | 7550.7 | 7617.2 | 7546.8 | 7417.7 | 7449.0 | 7499.8 |
| 30° | 7003.0 | 6975.6 | 7175.1 | 7472.5 | 7781.5 | 7922.4 | 8035.9 | 8000.6 | 7859.8 | 7832.4 | 7789.4 |
| 32.5° | 7472.5 | 7480.3 | 7660.2 | 7985.0 | 8188.4 | 8423.1 | 8544.4 | 8485.8 | 8395.8 | 8348.8 | 8376.2 |
| 35° | 8133.6 | 8168.9 | 8290.1 | 8560.1 | 8888.7 | 9006.1 | 9197.7 | 9072.5 | 8837.9 | 8896.5 | 8947.4 |
| 37.5° | 8677.4 | 8779.2 | 9006.1 | 9326.9 | 9522.5 | 9737.7 | 9808.1 | 9639.8 | 9467.7 | 9397.3 | 9565.5 |
| 40° | 9510.8 | 9479.5 | 9729.9 | 10050.7 | 10340.1 | 10555.3 | 10465.3 | 10297.2 | 9870.7 | 9874.6 | 9921.5 |
| 42.5° | 10226.7 | 10242.3 | 10434.0 | 10817.5 | 11212.6 | 11345.6 | 11060.0 | 10649.3 | 10175.9 | 10125.0 | 10226.7 |
| 45° | 10829.2 | 10891.8 | 11001.3 | 11513.9 | 11901.1 | 12045.9 | 11517.8 | 11032.6 | 10398.9 | 10187.6 | 10355.8 |
| 47.5° | 11044.4 | 11146.1 | 11384.7 | 11854.2 | 12237.6 | 12355.0 | 11932.5 | 11236.1 | 10606.2 | 10261.9 | 10351.9 |
| 50° | 11075.7 | 11040.5 | 11431.7 | 11862.1 | 12198.5 | 12452.8 | 12081.1 | 11384.7 | 10555.3 | 10375.4 | 10348.0 |
| 52.5° | 10218.9 | 10391.0 | 10809.6 | 11400.4 | 12081.1 | 12488.0 | 12214.2 | 11466.9 | 10625.8 | 10422.4 | 10355.8 |
| 55° | 8270.6 | 8067.1 | 8830.0 | 9823.8 | 11075.7 | 12206.3 | 12167.2 | 11509.9 | 10668.8 | 10500.6 | 10410.6 |
| 57.5° | 4616.5 | 4675.2 | 5105.6 | 6185.3 | 7801.1 | 9679.0 | 10817.5 | 11056.1 | 10649.3 | 10551.4 | 10598.4 |
| 60° | 2136.1 | 2155.7 | 2339.5 | 2844.2 | 3845.8 | 5488.9 | 6987.3 | 8509.2 | 9209.5 | 9350.4 | 9350.4 |
| 62.5° | 1592.3 | 1584.5 | 1631.5 | 1721.4 | 1932.7 | 2523.5 | 3368.5 | 4577.3 | 5539.8 | 6212.7 | 6388.7 |
| 65° | 1439.7 | 1435.8 | 1459.3 | 1490.6 | 1506.3 | 1588.4 | 1776.2 | 2147.8 | 2460.8 | 2640.8 | 2609.5 |
| 67.5° | 1259.8 | 1255.9 | 1263.7 | 1283.3 | 1310.6 | 1353.7 | 1400.6 | 1478.9 | 1588.4 | 1580.6 | 1561.0 |
| 70° | 1017.2 | 1017.2 | 1028.9 | 1044.6 | 1075.8 | 1126.7 | 1181.5 | 1236.3 | 1330.2 | 1349.7 | 1345.8 |
| 72.5° | 751.1 | 739.4 | 762.9 | 794.2 | 825.5 | 888.1 | 946.8 | 997.6 | 1064.2 | 1083.7 | 1075.8 |
| 75° | 477.3 | 485.1 | 500.8 | 536.0 | 590.8 | 633.8 | 696.4 | 739.4 | 782.5 | 798.1 | 802.0 |
| 77.5° | 266.1 | 273.9 | 301.2 | 344.3 | 399.0 | 446.0 | 500.8 | 536.0 | 563.4 | 567.3 | 571.2 |
| 80° | 160.4 | 164.4 | 191.7 | 230.8 | 277.8 | 328.6 | 371.7 | 406.8 | 430.3 | 418.6 | 414.7 |
| 82.5° | 97.8 | 101.7 | 125.2 | 160.4 | 199.5 | 238.7 | 285.6 | 316.9 | 340.4 | 324.7 | 309.1 |
| 85° | 50.9 | 54.8 | 74.3 | 97.8 | 129.1 | 148.7 | 148.7 | 133.0 | 129.1 | 121.3 | 117.4 |
| 87.5° | 15.7 | 15.7 | 19.6 | 23.5 | 19.6 | 23.5 | 27.4 | 31.3 | 31.3 | 35.2 | 31.3 |
| 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)