

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: P652156

Luminaire Tested: **GALN-SA1B-840-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652156
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-840-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5067.9 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

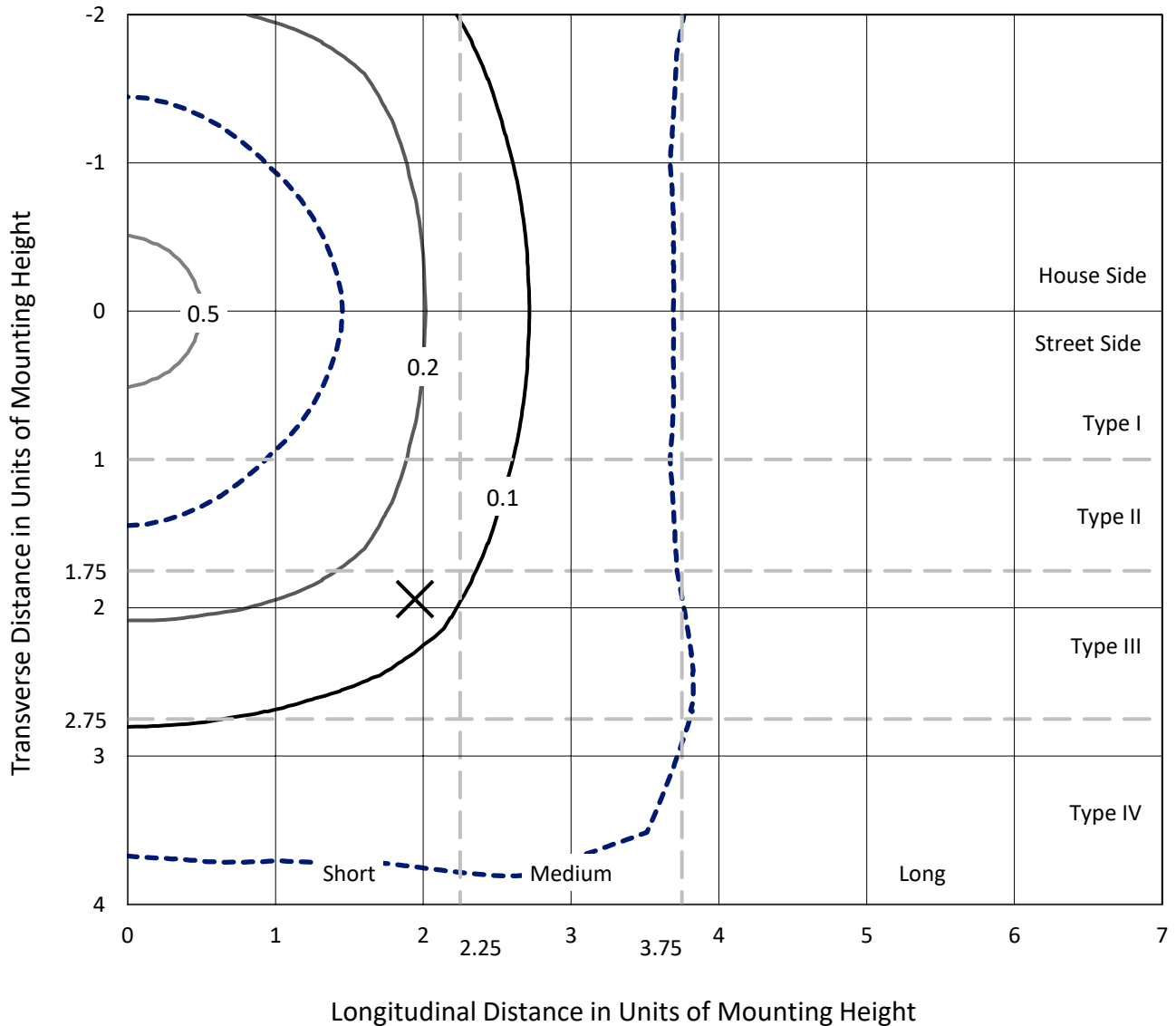
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

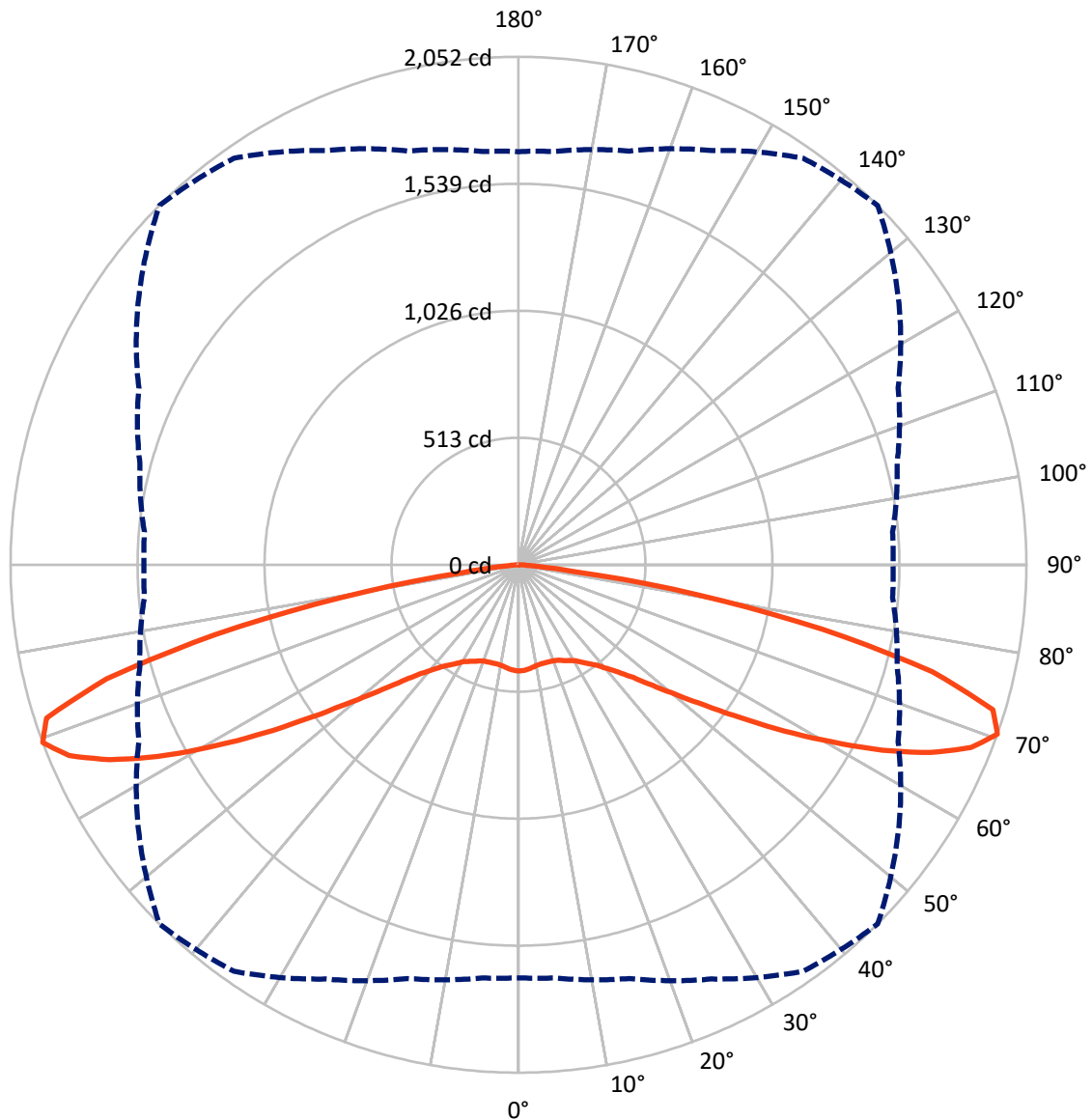
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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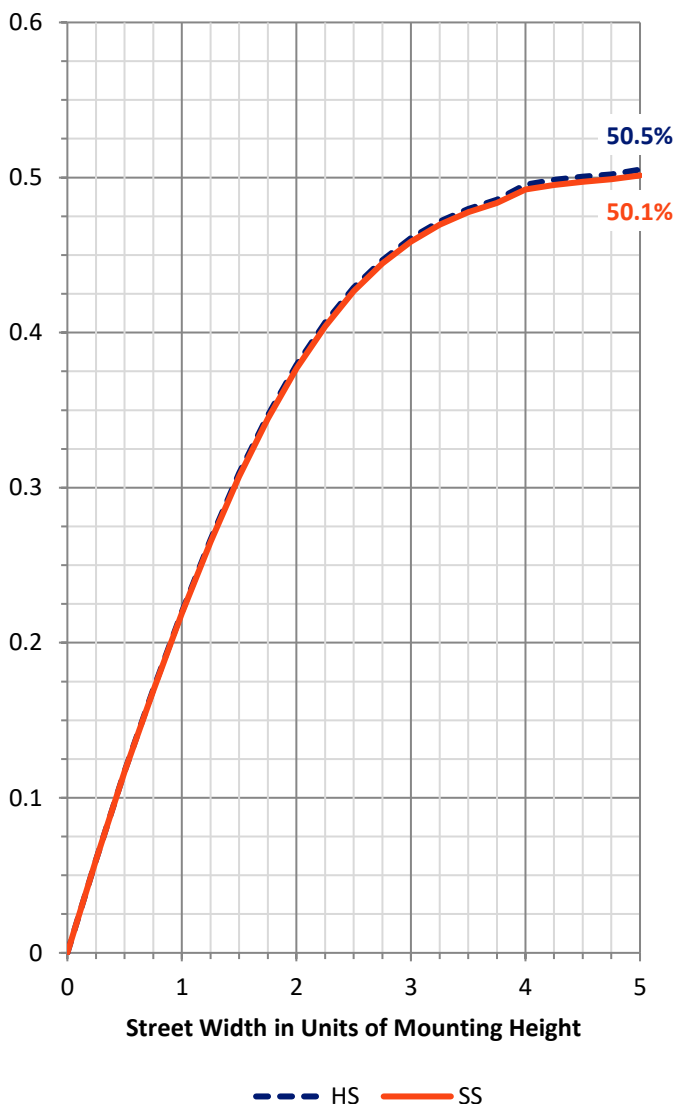
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2533.9 | 0.0 | 2533.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2533.9 | 0.0 | 2533.9 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 5067.9 | 0.0 | 5067.9 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 40.1 | 0.8 |
| 10°-20° | 117.5 | 2.3 |
| 20°-30° | 200.1 | 3.9 |
| 30°-40° | 310.2 | 6.1 |
| 40°-50° | 522.1 | 10.3 |
| 50°-60° | 950.0 | 18.7 |
| 60°-70° | 1608.3 | 31.7 |
| 70°-80° | 1244.9 | 24.6 |
| 80°-90° | 74.6 | 1.5 |
| 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° | 5067.9 | 100.0 |
| 0°-180° | 5067.9 | 100.0 |

Coefficient of Utilization



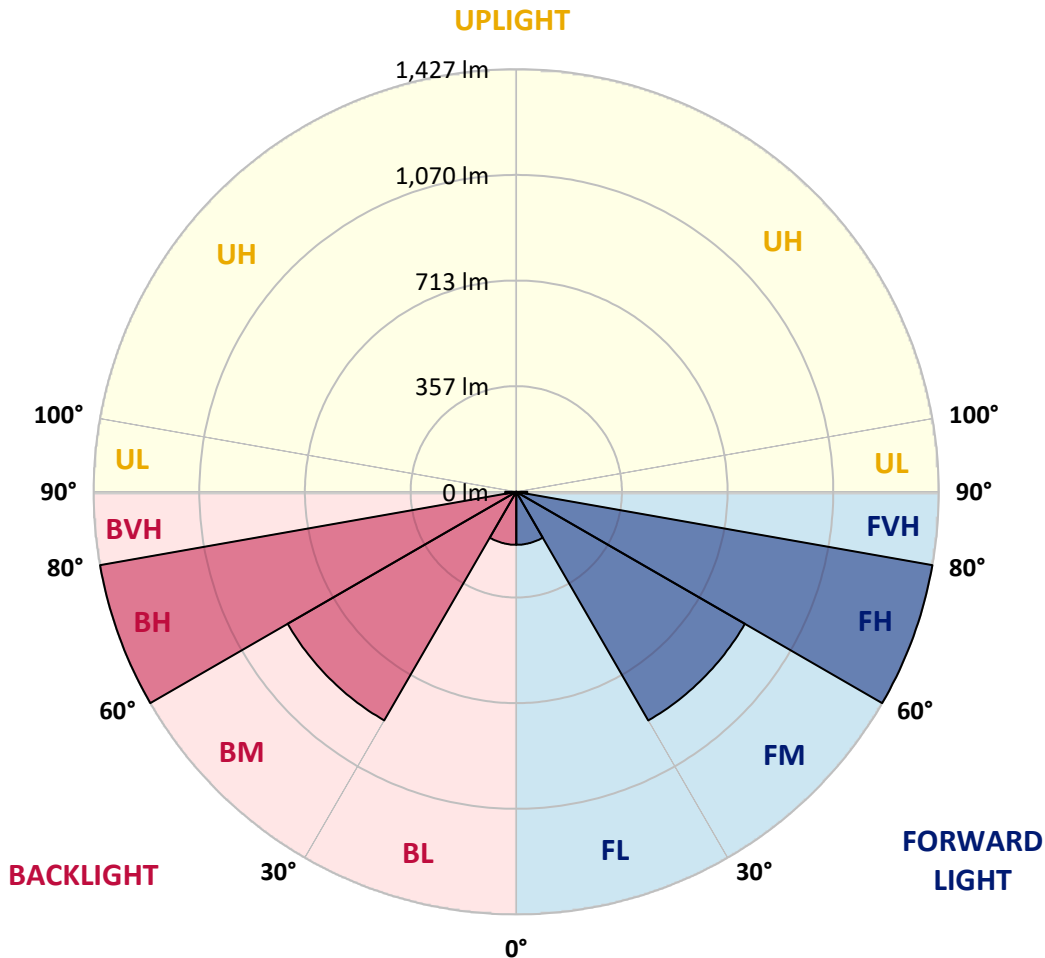
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 178.9 | 3.5 | | | |
| FM (30°-60°) | 891.2 | 17.6 | | | |
| FH (60°-80°) | 1426.6 | 28.2 | | | G1/1800 |
| FVH (80°-90°) | 37.3 | 0.7 | | | G1/100 |
| BL (0°-30°) | 178.9 | 3.5 | B1/500 | | |
| BM (30°-60°) | 891.2 | 17.6 | B1/1000 | | |
| BH (60°-80°) | 1426.6 | 28.2 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 37.3 | 0.7 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 429.1 | 429.1 | 429.1 | 429.1 | 429.1 | 429.1 | 429.1 | 429.1 | 429.1 | 429.1 | 429.1 |
| 2.5° | 428.0 | 428.2 | 428.2 | 427.7 | 427.5 | 427.5 | 427.1 | 427.1 | 428.0 | 428.2 | 428.5 |
| 5° | 424.2 | 424.2 | 424.2 | 423.9 | 423.4 | 423.4 | 422.9 | 422.9 | 423.2 | 423.9 | 423.4 |
| 7.5° | 419.2 | 419.7 | 419.7 | 418.6 | 417.8 | 417.8 | 417.6 | 417.8 | 418.1 | 418.9 | 418.6 |
| 10° | 417.6 | 417.8 | 416.5 | 414.6 | 413.3 | 412.4 | 412.8 | 413.3 | 414.6 | 415.1 | 415.4 |
| 12.5° | 418.6 | 418.6 | 416.2 | 413.5 | 411.2 | 410.1 | 409.8 | 411.7 | 414.1 | 415.7 | 416.2 |
| 15° | 420.0 | 419.4 | 416.5 | 413.0 | 410.6 | 410.3 | 410.1 | 411.4 | 414.9 | 418.1 | 418.3 |
| 17.5° | 420.8 | 420.5 | 416.7 | 412.4 | 411.2 | 411.2 | 410.8 | 411.9 | 415.7 | 419.7 | 420.0 |
| 20° | 423.4 | 422.6 | 418.3 | 413.8 | 412.8 | 413.3 | 412.4 | 413.8 | 417.8 | 422.6 | 423.7 |
| 22.5° | 428.8 | 428.0 | 423.7 | 419.2 | 418.6 | 418.6 | 418.3 | 419.7 | 423.9 | 429.1 | 429.8 |
| 25° | 435.2 | 434.4 | 430.4 | 427.1 | 427.7 | 428.8 | 428.2 | 428.5 | 432.0 | 436.3 | 437.7 |
| 27.5° | 443.8 | 442.5 | 439.0 | 436.3 | 437.9 | 437.9 | 437.9 | 437.7 | 439.8 | 443.8 | 445.1 |
| 30° | 454.2 | 453.7 | 449.9 | 449.7 | 451.0 | 449.7 | 449.7 | 449.9 | 450.2 | 454.0 | 455.3 |
| 32.5° | 467.8 | 466.8 | 464.9 | 464.4 | 468.1 | 469.2 | 465.5 | 462.0 | 463.8 | 467.6 | 468.4 |
| 35° | 490.4 | 488.7 | 486.1 | 483.2 | 486.1 | 491.1 | 483.2 | 480.5 | 485.3 | 490.4 | 490.9 |
| 37.5° | 520.8 | 520.1 | 515.8 | 510.4 | 510.2 | 515.5 | 507.2 | 507.0 | 516.0 | 522.2 | 523.0 |
| 40° | 559.2 | 559.9 | 554.6 | 549.5 | 546.8 | 551.1 | 544.7 | 547.1 | 555.9 | 562.9 | 562.4 |
| 42.5° | 612.9 | 610.0 | 601.7 | 596.9 | 593.9 | 592.3 | 590.7 | 594.5 | 604.3 | 611.8 | 617.7 |
| 45° | 675.8 | 674.7 | 664.3 | 658.4 | 652.0 | 649.6 | 649.1 | 655.7 | 667.8 | 676.9 | 677.7 |
| 47.5° | 747.1 | 744.6 | 737.9 | 731.8 | 729.4 | 726.5 | 723.8 | 728.8 | 740.9 | 747.3 | 749.2 |
| 50° | 820.4 | 820.9 | 820.9 | 819.8 | 822.2 | 822.8 | 815.5 | 817.5 | 824.1 | 823.6 | 823.1 |
| 52.5° | 904.2 | 907.1 | 921.0 | 922.3 | 933.8 | 941.6 | 928.5 | 920.7 | 918.4 | 903.9 | 904.9 |
| 55° | 1002.6 | 1005.3 | 1026.2 | 1047.0 | 1078.2 | 1091.3 | 1063.7 | 1039.6 | 1022.5 | 1000.5 | 1001.5 |
| 57.5° | 1125.5 | 1126.9 | 1146.6 | 1186.8 | 1236.0 | 1266.8 | 1218.4 | 1170.8 | 1135.9 | 1115.1 | 1106.8 |
| 60° | 1257.7 | 1259.1 | 1288.0 | 1336.9 | 1413.5 | 1451.0 | 1391.0 | 1313.1 | 1269.2 | 1237.4 | 1239.5 |
| 62.5° | 1416.4 | 1421.8 | 1447.8 | 1515.2 | 1608.1 | 1650.1 | 1570.7 | 1466.5 | 1407.1 | 1367.5 | 1369.1 |
| 65° | 1586.4 | 1595.5 | 1623.9 | 1698.1 | 1783.7 | 1828.9 | 1731.5 | 1611.3 | 1537.4 | 1489.0 | 1494.0 |
| 67.5° | 1696.7 | 1704.7 | 1745.7 | 1827.6 | 1934.4 | 1971.8 | 1846.1 | 1706.1 | 1613.7 | 1555.9 | 1545.2 |
| 70° | 1668.5 | 1675.3 | 1729.9 | 1846.1 | 2004.2 | 2051.6 | 1873.3 | 1692.2 | 1583.4 | 1516.8 | 1512.5 |
| 72.5° | 1472.9 | 1459.0 | 1538.8 | 1705.5 | 1924.5 | 2003.9 | 1787.5 | 1545.4 | 1408.7 | 1340.1 | 1332.1 |
| 75° | 976.1 | 1006.4 | 1124.2 | 1320.6 | 1628.2 | 1726.7 | 1525.7 | 1240.9 | 1068.7 | 1011.7 | 1002.9 |
| 77.5° | 326.3 | 349.6 | 454.2 | 748.7 | 1110.0 | 1258.0 | 1111.5 | 811.6 | 574.2 | 462.6 | 464.7 |
| 80° | 86.5 | 85.4 | 110.5 | 205.8 | 479.6 | 728.6 | 558.3 | 274.9 | 150.5 | 108.9 | 103.3 |
| 82.5° | 31.0 | 34.8 | 44.7 | 57.0 | 127.2 | 226.5 | 159.8 | 77.1 | 56.5 | 41.7 | 40.5 |
| 85° | 13.6 | 13.4 | 19.3 | 22.8 | 31.9 | 42.3 | 37.5 | 32.6 | 28.7 | 19.0 | 17.7 |
| 87.5° | 2.9 | 2.9 | 4.5 | 3.4 | 5.6 | 5.6 | 7.0 | 8.3 | 8.6 | 5.6 | 4.5 |
| 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)