

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: P382712

Luminaire Tested: **GLEON-SA1A-735-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1A-735-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4787.2 lumens
Efficiency: N/A
Efficacy: 140.8 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

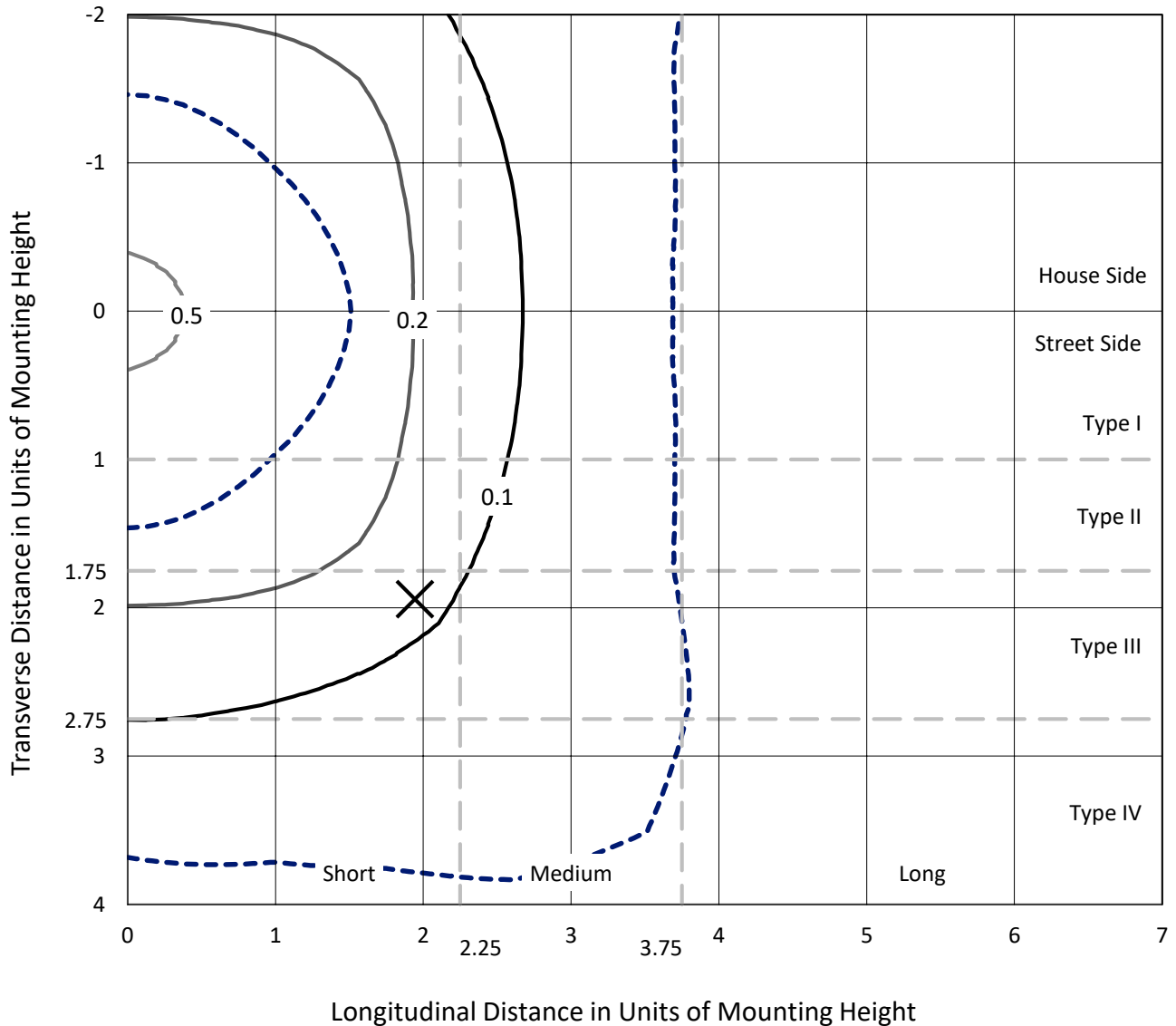
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

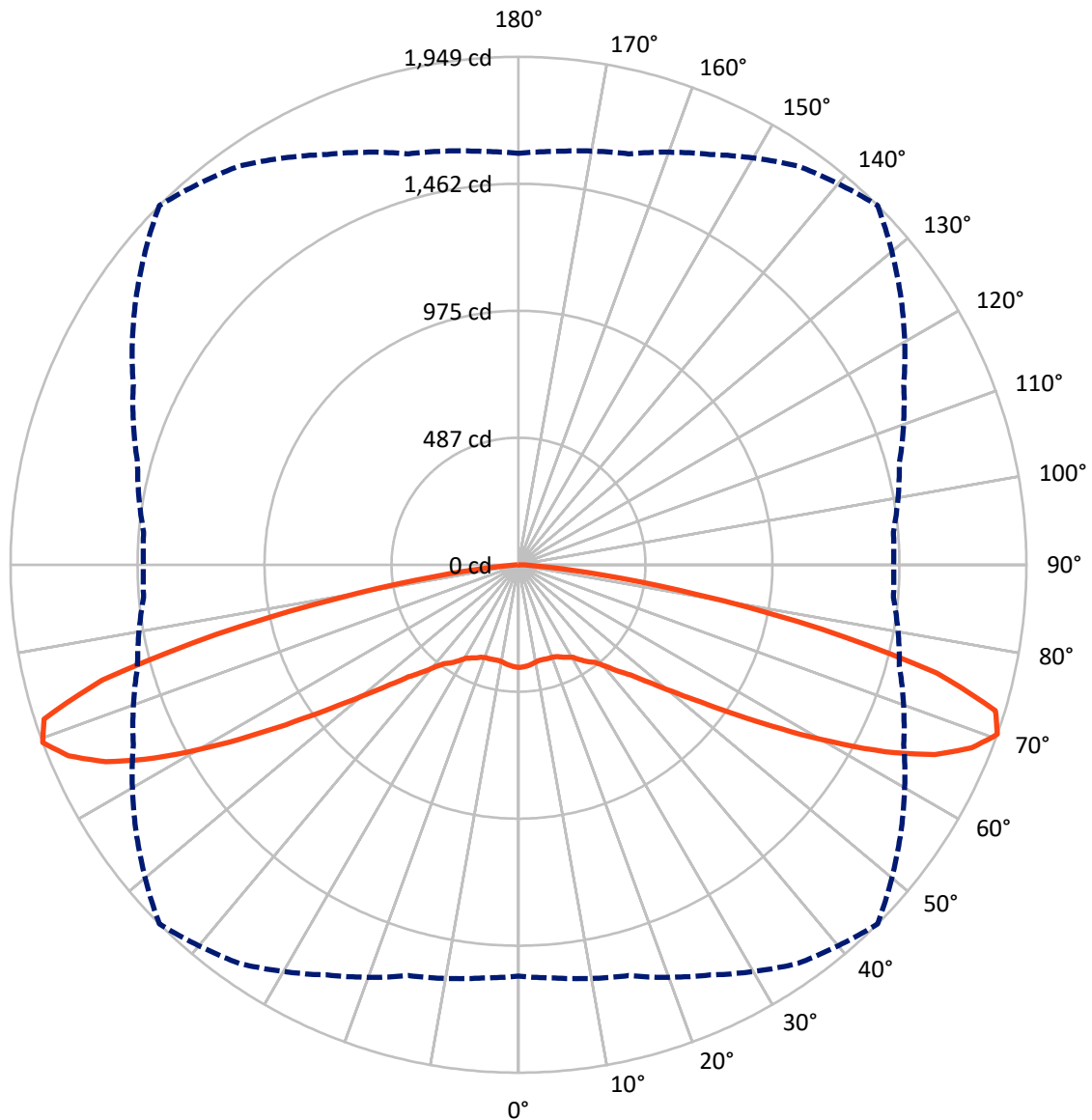
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 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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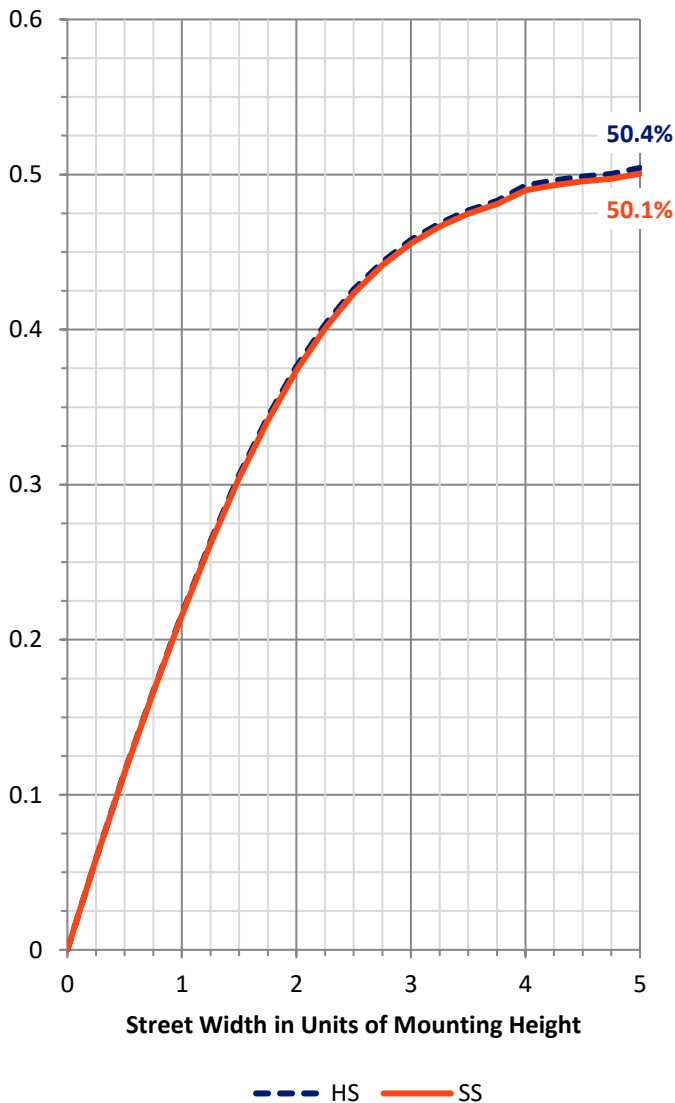
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2393.6 | 0.0 | 2393.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2393.6 | 0.0 | 2393.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 4787.2 | 0.0 | 4787.2 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 36.8 | 0.8 |
| 10°-20° | 107.4 | 2.2 |
| 20°-30° | 183.1 | 3.8 |
| 30°-40° | 286.1 | 6.0 |
| 40°-50° | 485.0 | 10.1 |
| 50°-60° | 884.4 | 18.5 |
| 60°-70° | 1522.5 | 31.8 |
| 70°-80° | 1193.4 | 24.9 |
| 80°-90° | 88.5 | 1.8 |
| 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° | 4787.2 | 100.0 |
| 0°-180° | 4787.2 | 100.0 |



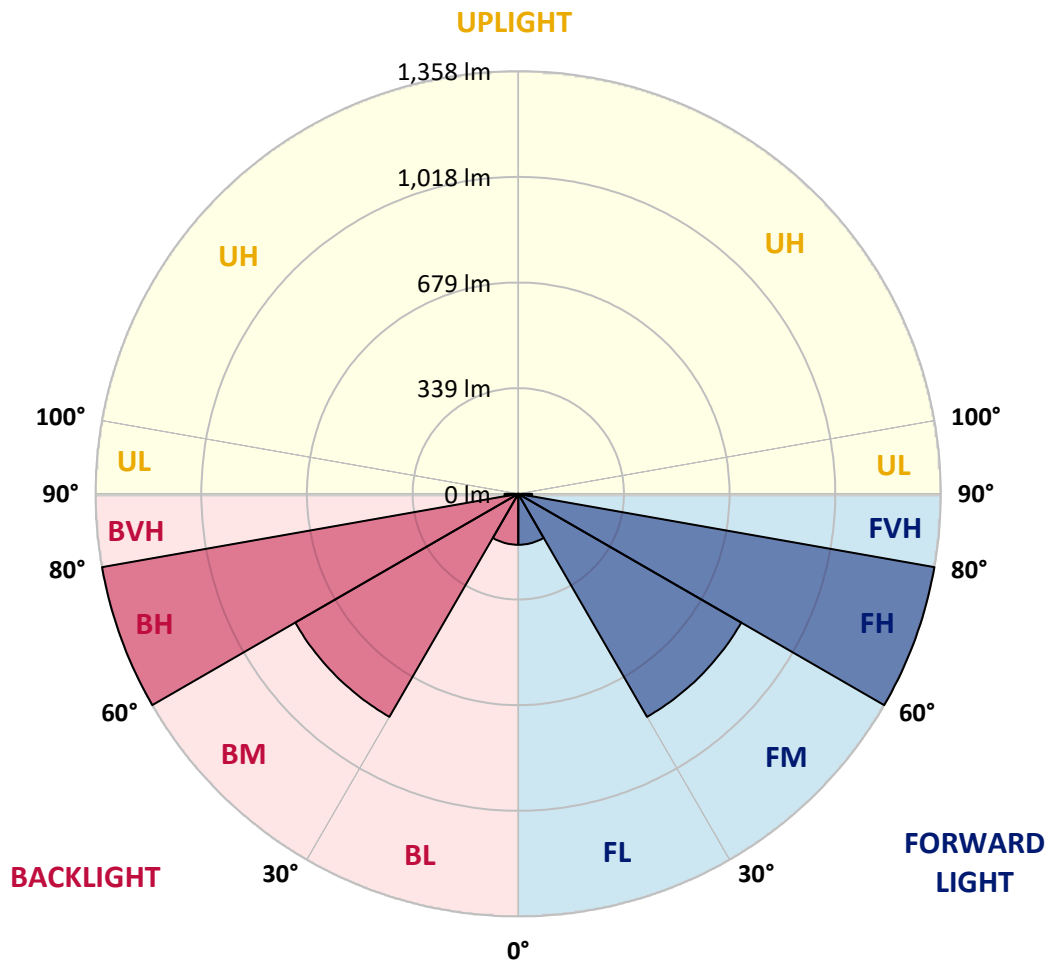
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 163.7 | 3.4 | | | |
| FM (30°-60°) | 827.7 | 17.3 | | | |
| FH (60°-80°) | 1358.0 | 28.4 | | | G1/1800 |
| FVH (80°-90°) | 44.2 | 0.9 | | | G1/100 |
| BL (0°-30°) | 163.7 | 3.4 | B1/500 | | |
| BM (30°-60°) | 827.7 | 17.3 | B1/1000 | | |
| BH (60°-80°) | 1358.0 | 28.4 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 44.2 | 0.9 | | | 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° | 394.0 | 394.0 | 394.0 | 394.0 | 394.0 | 394.0 | 394.0 | 394.0 | 394.0 | 394.0 | 394.0 |
| 2.5° | 392.3 | 392.7 | 392.3 | 392.6 | 391.8 | 392.1 | 392.1 | 392.1 | 391.9 | 392.1 | 391.8 |
| 5° | 388.7 | 389.1 | 388.5 | 388.7 | 388.3 | 388.7 | 388.9 | 388.7 | 388.5 | 388.6 | 388.0 |
| 7.5° | 383.5 | 383.9 | 383.4 | 383.9 | 383.2 | 384.0 | 383.9 | 383.4 | 382.9 | 382.9 | 382.3 |
| 10° | 380.7 | 380.8 | 379.6 | 379.1 | 377.6 | 378.0 | 378.5 | 379.0 | 379.4 | 380.4 | 380.3 |
| 12.5° | 380.8 | 380.8 | 379.0 | 376.9 | 374.9 | 375.3 | 376.1 | 377.8 | 379.7 | 381.5 | 381.7 |
| 15° | 382.4 | 382.3 | 379.4 | 376.1 | 374.7 | 376.1 | 376.5 | 377.6 | 380.7 | 383.7 | 383.9 |
| 17.5° | 383.5 | 383.5 | 379.1 | 375.3 | 375.1 | 377.4 | 377.2 | 377.6 | 381.0 | 385.5 | 385.6 |
| 20° | 385.6 | 385.6 | 379.9 | 375.8 | 375.8 | 378.1 | 378.3 | 379.1 | 382.4 | 387.3 | 388.2 |
| 22.5° | 390.2 | 390.3 | 384.4 | 381.0 | 381.3 | 382.8 | 383.2 | 384.4 | 387.5 | 392.9 | 393.9 |
| 25° | 396.7 | 397.0 | 390.8 | 388.9 | 390.0 | 392.7 | 392.4 | 393.4 | 396.7 | 401.9 | 402.9 |
| 27.5° | 405.7 | 404.9 | 399.3 | 398.4 | 399.5 | 401.4 | 401.3 | 401.4 | 404.1 | 408.9 | 410.0 |
| 30° | 417.4 | 417.1 | 413.0 | 413.4 | 413.0 | 412.4 | 412.5 | 413.8 | 415.2 | 419.0 | 420.1 |
| 32.5° | 428.8 | 429.2 | 426.6 | 429.0 | 432.4 | 434.8 | 431.2 | 427.7 | 426.1 | 428.2 | 429.2 |
| 35° | 449.4 | 450.2 | 446.2 | 444.6 | 449.4 | 456.4 | 446.1 | 440.3 | 443.5 | 446.2 | 447.0 |
| 37.5° | 484.4 | 484.9 | 478.3 | 471.9 | 468.4 | 475.1 | 464.7 | 465.2 | 476.3 | 481.4 | 481.2 |
| 40° | 524.3 | 524.5 | 520.1 | 514.5 | 508.4 | 510.0 | 505.9 | 507.2 | 514.5 | 519.1 | 520.4 |
| 42.5° | 571.8 | 571.3 | 564.4 | 556.5 | 554.7 | 556.3 | 549.3 | 548.4 | 556.8 | 565.0 | 565.2 |
| 45° | 633.5 | 632.3 | 623.3 | 614.5 | 606.2 | 602.7 | 600.9 | 605.5 | 617.2 | 624.7 | 624.9 |
| 47.5° | 699.8 | 696.8 | 692.0 | 685.1 | 677.8 | 674.3 | 671.5 | 673.6 | 682.1 | 685.1 | 685.3 |
| 50° | 768.1 | 768.6 | 769.6 | 766.9 | 764.2 | 763.1 | 755.7 | 751.4 | 753.9 | 748.4 | 747.6 |
| 52.5° | 848.9 | 850.2 | 859.4 | 867.2 | 871.7 | 874.2 | 860.0 | 845.3 | 837.1 | 826.3 | 823.1 |
| 55° | 944.4 | 946.5 | 960.0 | 981.5 | 1003.6 | 1015.4 | 989.9 | 962.3 | 936.9 | 916.7 | 910.2 |
| 57.5° | 1050.9 | 1054.5 | 1073.0 | 1114.3 | 1159.8 | 1187.5 | 1144.4 | 1094.4 | 1045.1 | 1016.1 | 1011.1 |
| 60° | 1175.6 | 1179.2 | 1204.8 | 1264.0 | 1337.6 | 1379.2 | 1314.0 | 1232.2 | 1170.9 | 1143.2 | 1133.8 |
| 62.5° | 1324.2 | 1324.5 | 1356.0 | 1425.2 | 1522.4 | 1580.4 | 1492.1 | 1382.6 | 1319.4 | 1286.0 | 1277.0 |
| 65° | 1484.0 | 1484.7 | 1517.4 | 1592.1 | 1692.6 | 1755.7 | 1655.9 | 1541.9 | 1464.7 | 1415.4 | 1408.4 |
| 67.5° | 1596.9 | 1600.2 | 1634.6 | 1724.5 | 1818.6 | 1875.4 | 1772.2 | 1643.2 | 1553.9 | 1495.2 | 1489.4 |
| 70° | 1578.8 | 1591.8 | 1632.2 | 1737.1 | 1867.9 | 1949.1 | 1791.0 | 1631.2 | 1513.4 | 1444.1 | 1439.1 |
| 72.5° | 1376.9 | 1401.8 | 1455.6 | 1593.4 | 1802.5 | 1914.2 | 1688.2 | 1460.9 | 1327.6 | 1268.6 | 1259.7 |
| 75° | 937.6 | 978.0 | 1059.3 | 1258.0 | 1540.0 | 1657.3 | 1421.3 | 1164.9 | 1039.4 | 957.7 | 951.8 |
| 77.5° | 418.1 | 427.2 | 530.1 | 759.0 | 1062.7 | 1190.2 | 1032.6 | 762.0 | 572.0 | 456.2 | 431.9 |
| 80° | 116.5 | 117.9 | 157.4 | 282.6 | 531.9 | 699.3 | 571.0 | 296.9 | 166.9 | 117.7 | 110.9 |
| 82.5° | 37.1 | 40.2 | 49.1 | 73.3 | 178.8 | 319.1 | 183.5 | 79.2 | 56.4 | 45.0 | 40.5 |
| 85° | 18.1 | 17.9 | 24.9 | 29.8 | 45.6 | 70.6 | 48.6 | 36.7 | 32.1 | 21.3 | 19.3 |
| 87.5° | 7.6 | 7.7 | 11.6 | 10.4 | 13.3 | 11.4 | 15.6 | 16.5 | 17.2 | 9.5 | 8.2 |
| 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)