

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: P532594

Luminaire Tested: **GALN-SA8A-727-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-727-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26201 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

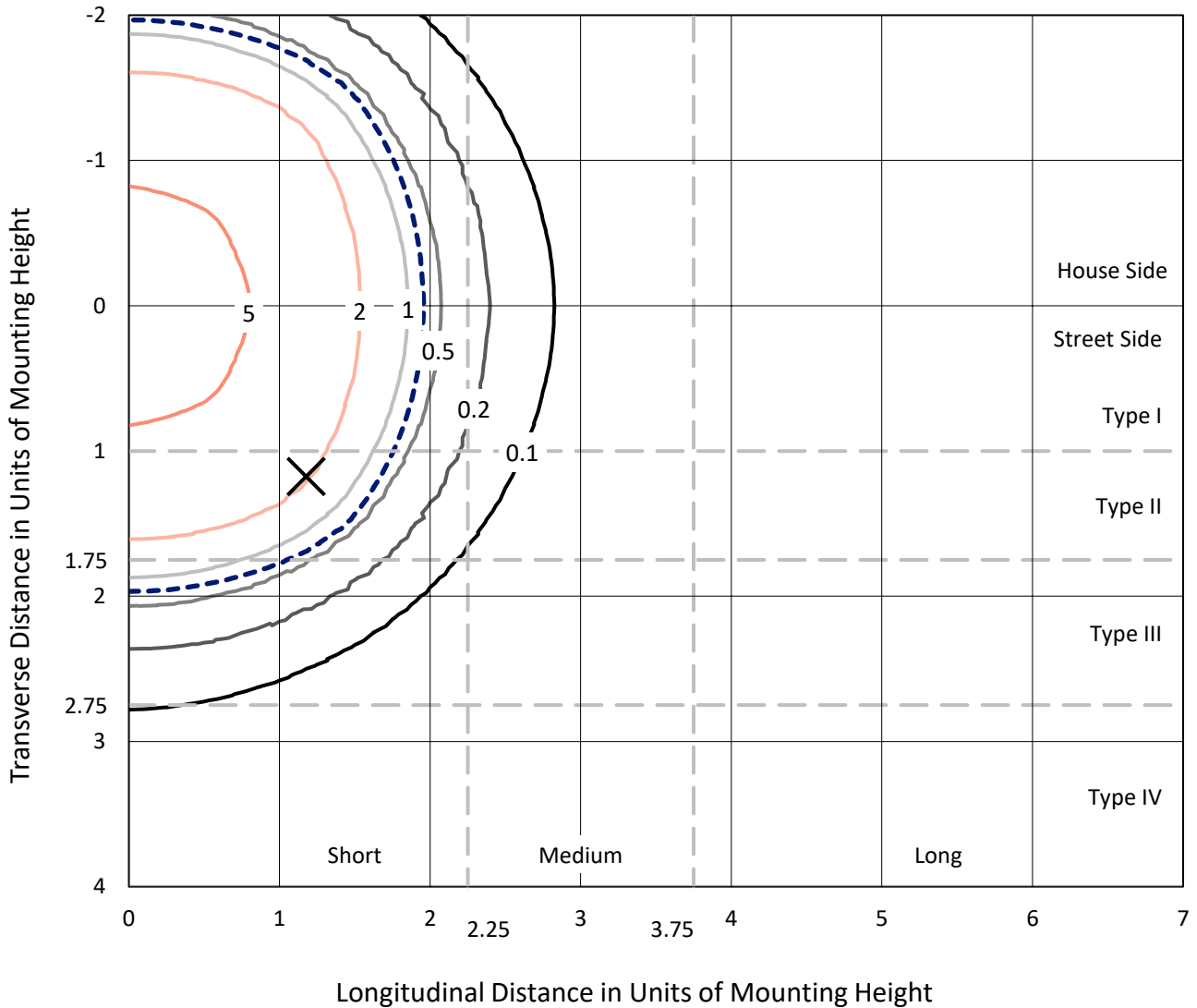
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

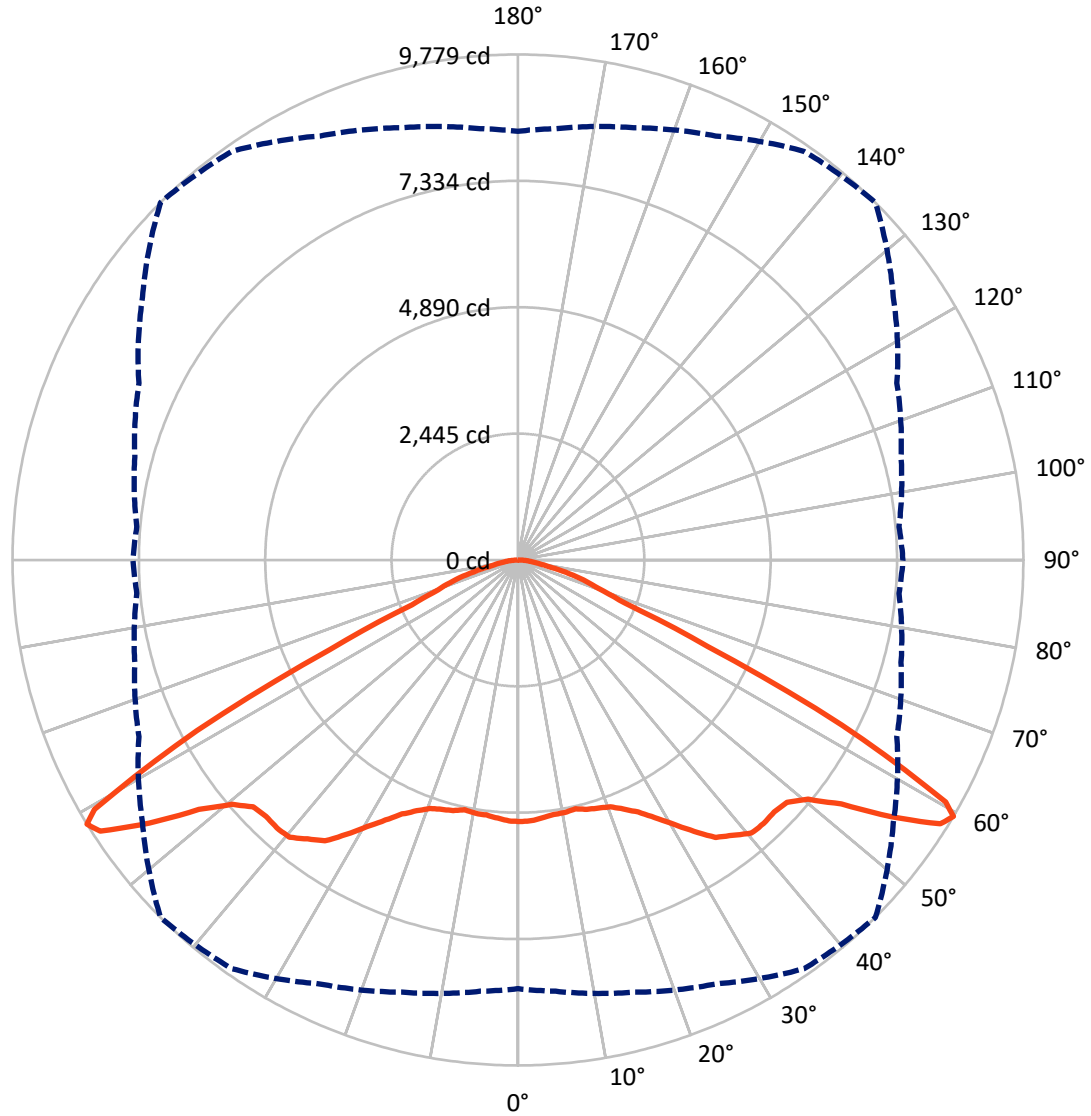
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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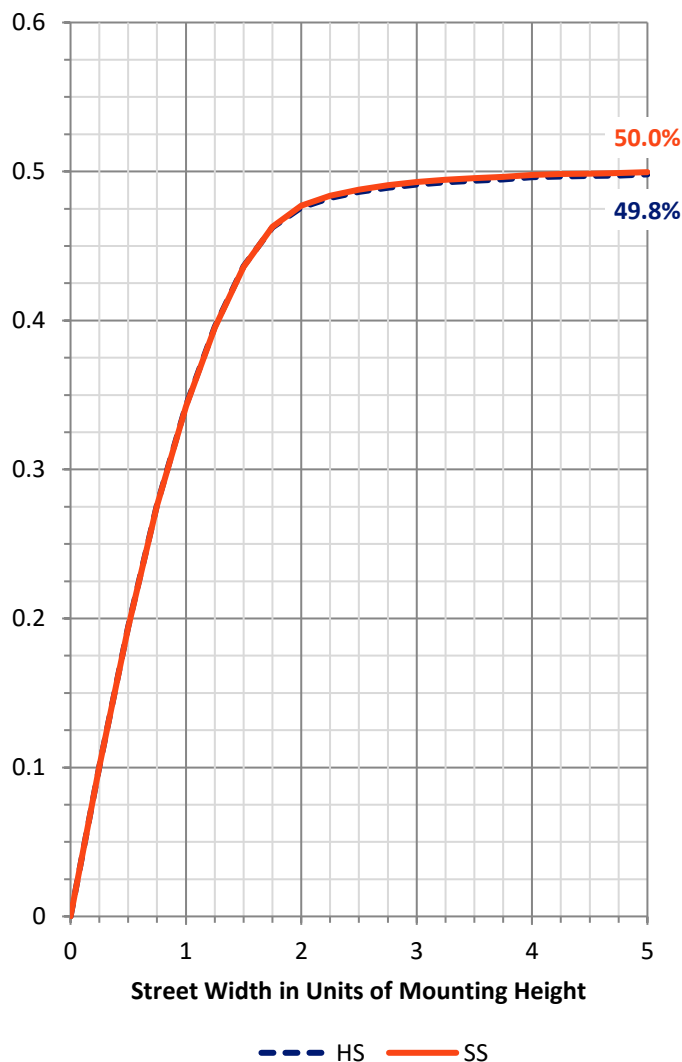
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 13100.5 | 0.0 | 13100.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 13100.5 | 0.0 | 13100.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 26201.0 | 0.0 | 26201.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 477.1 | 1.8 |
| 10°-20° | 1418.7 | 5.4 |
| 20°-30° | 2477.2 | 9.5 |
| 30°-40° | 3956.5 | 15.1 |
| 40°-50° | 5389.6 | 20.6 |
| 50°-60° | 7288.1 | 27.8 |
| 60°-70° | 3996.8 | 15.3 |
| 70°-80° | 1022.5 | 3.9 |
| 80°-90° | 174.4 | 0.7 |
| 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° | 26201.0 | 100.0 |
| 0°-180° | 26201.0 | 100.0 |

Coefficient of Utilization

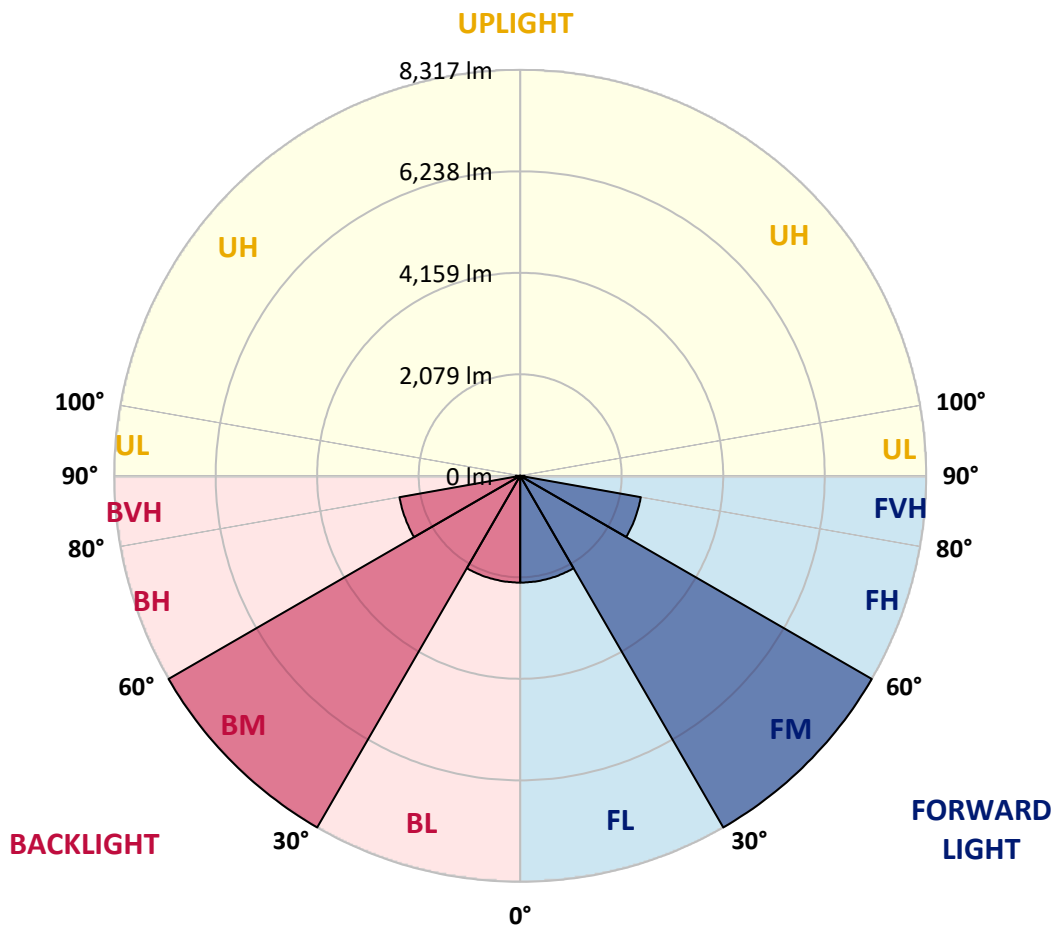


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2186.5 | 8.3 | | | |
| FM (30°-60°) | 8317.1 | 31.7 | | | |
| FH (60°-80°) | 2509.7 | 9.6 | | | G2/5000 |
| FVH (80°-90°) | 87.2 | 0.3 | | | G1/100 |
| BL (0°-30°) | 2186.5 | 8.3 | B3/2500 | | |
| BM (30°-60°) | 8317.1 | 31.7 | B4/8500 | | |
| BH (60°-80°) | 2509.7 | 9.6 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 87.2 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 5060.8 | 5060.8 | 5060.8 | 5060.8 | 5060.8 | 5060.8 | 5060.8 | 5060.8 | 5060.8 | 5060.8 | 5060.8 |
| 2.5° | 5030.6 | 5067.5 | 5040.6 | 5064.1 | 5060.8 | 5050.7 | 5033.9 | 5023.8 | 5010.4 | 5030.6 | 4997.0 |
| 5° | 5010.4 | 5040.6 | 5070.9 | 5030.6 | 5030.6 | 5010.4 | 5000.3 | 4980.2 | 4980.2 | 4976.8 | 4973.5 |
| 7.5° | 5044.0 | 5013.8 | 5000.3 | 5007.0 | 5013.8 | 4970.1 | 5000.3 | 4960.0 | 4926.5 | 4950.0 | 4976.8 |
| 10° | 5013.8 | 5027.2 | 4976.8 | 5000.3 | 4963.4 | 4970.1 | 4950.0 | 4976.8 | 4939.9 | 4939.9 | 4939.9 |
| 12.5° | 5044.0 | 5007.0 | 5023.8 | 5007.0 | 4997.0 | 4939.9 | 4966.8 | 4936.5 | 4933.2 | 4966.8 | 4936.5 |
| 15° | 5104.4 | 5044.0 | 5030.6 | 4997.0 | 5007.0 | 5007.0 | 4980.2 | 4983.5 | 4946.6 | 4966.8 | 4973.5 |
| 17.5° | 5084.3 | 5050.7 | 5040.6 | 5000.3 | 5033.9 | 5044.0 | 4993.6 | 4960.0 | 4983.5 | 4980.2 | 4976.8 |
| 20° | 5101.1 | 5114.5 | 5104.4 | 5111.2 | 5124.6 | 5097.7 | 5050.7 | 5003.7 | 4973.5 | 5017.1 | 5013.8 |
| 22.5° | 5208.5 | 5195.1 | 5188.4 | 5181.7 | 5205.2 | 5232.0 | 5168.2 | 5094.4 | 5094.4 | 5124.6 | 5138.0 |
| 25° | 5295.9 | 5292.5 | 5289.1 | 5319.4 | 5400.0 | 5400.0 | 5319.4 | 5225.3 | 5201.8 | 5222.0 | 5205.2 |
| 27.5° | 5423.5 | 5460.4 | 5447.0 | 5500.7 | 5618.2 | 5645.1 | 5537.6 | 5426.8 | 5363.0 | 5339.5 | 5369.7 |
| 30° | 5715.6 | 5672.0 | 5682.0 | 5739.1 | 5843.2 | 5930.5 | 5766.0 | 5648.5 | 5561.1 | 5557.8 | 5571.2 |
| 32.5° | 5910.4 | 5944.0 | 5974.2 | 6027.9 | 6192.5 | 6259.7 | 6061.5 | 5870.1 | 5816.4 | 5786.1 | 5796.2 |
| 35° | 6299.9 | 6269.7 | 6263.0 | 6316.7 | 6481.3 | 6592.1 | 6343.6 | 6175.7 | 6105.2 | 6172.3 | 6172.3 |
| 37.5° | 6669.3 | 6585.4 | 6521.6 | 6592.1 | 6743.2 | 6756.7 | 6545.1 | 6454.4 | 6417.5 | 6494.7 | 6491.4 |
| 40° | 6844.0 | 6837.3 | 6689.5 | 6729.8 | 6931.3 | 6951.4 | 6753.3 | 6645.8 | 6639.1 | 6739.9 | 6840.6 |
| 42.5° | 7025.3 | 6961.5 | 6813.8 | 6840.6 | 6964.9 | 6971.6 | 6783.5 | 6753.3 | 6827.2 | 6924.6 | 6931.3 |
| 45° | 7055.5 | 7001.8 | 6907.8 | 6840.6 | 6931.3 | 6951.4 | 6840.6 | 6860.8 | 6867.5 | 6985.0 | 6985.0 |
| 47.5° | 7116.0 | 7109.3 | 7055.5 | 7005.2 | 7022.0 | 7005.2 | 6934.6 | 6964.9 | 7065.6 | 7122.7 | 7095.8 |
| 50° | 7283.9 | 7213.4 | 7267.1 | 7223.4 | 7226.8 | 7273.8 | 7210.0 | 7240.2 | 7220.1 | 7169.7 | 7136.1 |
| 52.5° | 7653.3 | 7619.7 | 7666.7 | 7697.0 | 7730.5 | 7838.0 | 7764.1 | 7602.9 | 7451.8 | 7317.5 | 7314.1 |
| 55° | 8194.0 | 8217.5 | 8308.1 | 8462.6 | 8593.6 | 8764.9 | 8408.9 | 8022.7 | 7780.9 | 7569.3 | 7582.8 |
| 57.5° | 8704.4 | 8687.6 | 8811.9 | 9164.5 | 9547.3 | 9634.6 | 8936.1 | 8385.4 | 7992.5 | 7858.1 | 7801.1 |
| 59° | 8294.7 | 8375.3 | 8657.4 | 9050.3 | 9651.4 | 9779.0 | 8865.6 | 8089.9 | 7673.4 | 7401.4 | 7448.4 |
| 60° | 7649.9 | 7680.2 | 7932.0 | 8479.4 | 9292.1 | 9510.4 | 8392.1 | 7633.1 | 7079.0 | 6921.2 | 6991.7 |
| 62.5° | 5406.7 | 5383.2 | 5564.5 | 6011.1 | 6739.9 | 7035.4 | 6239.5 | 5705.6 | 5356.3 | 5181.7 | 5222.0 |
| 65° | 2874.6 | 2982.1 | 3055.9 | 3334.7 | 3720.9 | 4033.2 | 3704.1 | 3472.4 | 3277.6 | 3133.2 | 3129.8 |
| 67.5° | 1941.0 | 1927.6 | 1944.4 | 2008.2 | 2139.2 | 2226.5 | 2219.8 | 2102.2 | 2085.4 | 2058.6 | 2088.8 |
| 70° | 1635.4 | 1628.7 | 1598.5 | 1598.5 | 1625.4 | 1645.5 | 1669.0 | 1682.4 | 1709.3 | 1742.9 | 1739.5 |
| 72.5° | 1326.5 | 1309.7 | 1289.5 | 1279.5 | 1313.0 | 1323.1 | 1353.3 | 1366.8 | 1390.3 | 1386.9 | 1417.2 |
| 75° | 876.5 | 876.5 | 900.0 | 926.9 | 936.9 | 957.1 | 960.4 | 1000.7 | 1000.7 | 1007.5 | 980.6 |
| 77.5° | 490.3 | 476.9 | 493.7 | 520.5 | 544.0 | 581.0 | 617.9 | 648.1 | 664.9 | 658.2 | 658.2 |
| 80° | 285.4 | 285.4 | 302.2 | 332.5 | 362.7 | 396.3 | 423.1 | 446.6 | 463.4 | 456.7 | 443.3 |
| 82.5° | 178.0 | 178.0 | 194.8 | 225.0 | 248.5 | 268.7 | 305.6 | 335.8 | 356.0 | 349.3 | 332.5 |
| 85° | 90.7 | 90.7 | 110.8 | 131.0 | 161.2 | 174.6 | 171.3 | 157.8 | 154.5 | 137.7 | 137.7 |
| 87.5° | 23.5 | 23.5 | 33.6 | 36.9 | 30.2 | 33.6 | 33.6 | 33.6 | 33.6 | 33.6 | 36.9 |
| 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)