

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: STREETWORKS

Report Number: P653417

Luminaire Tested: **GLAN-SA6D-840-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P653417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA6D-840-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34749.3 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

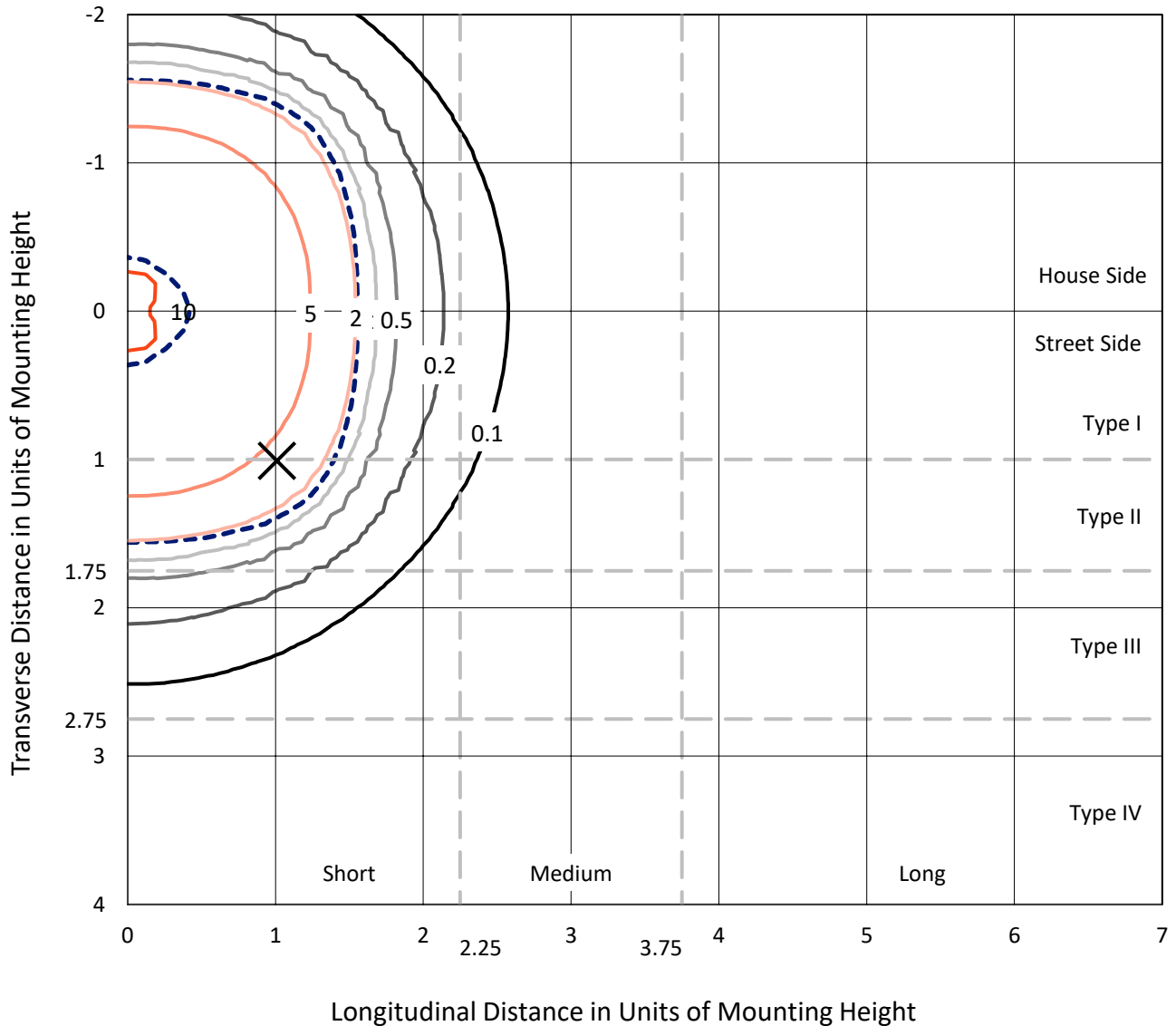
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

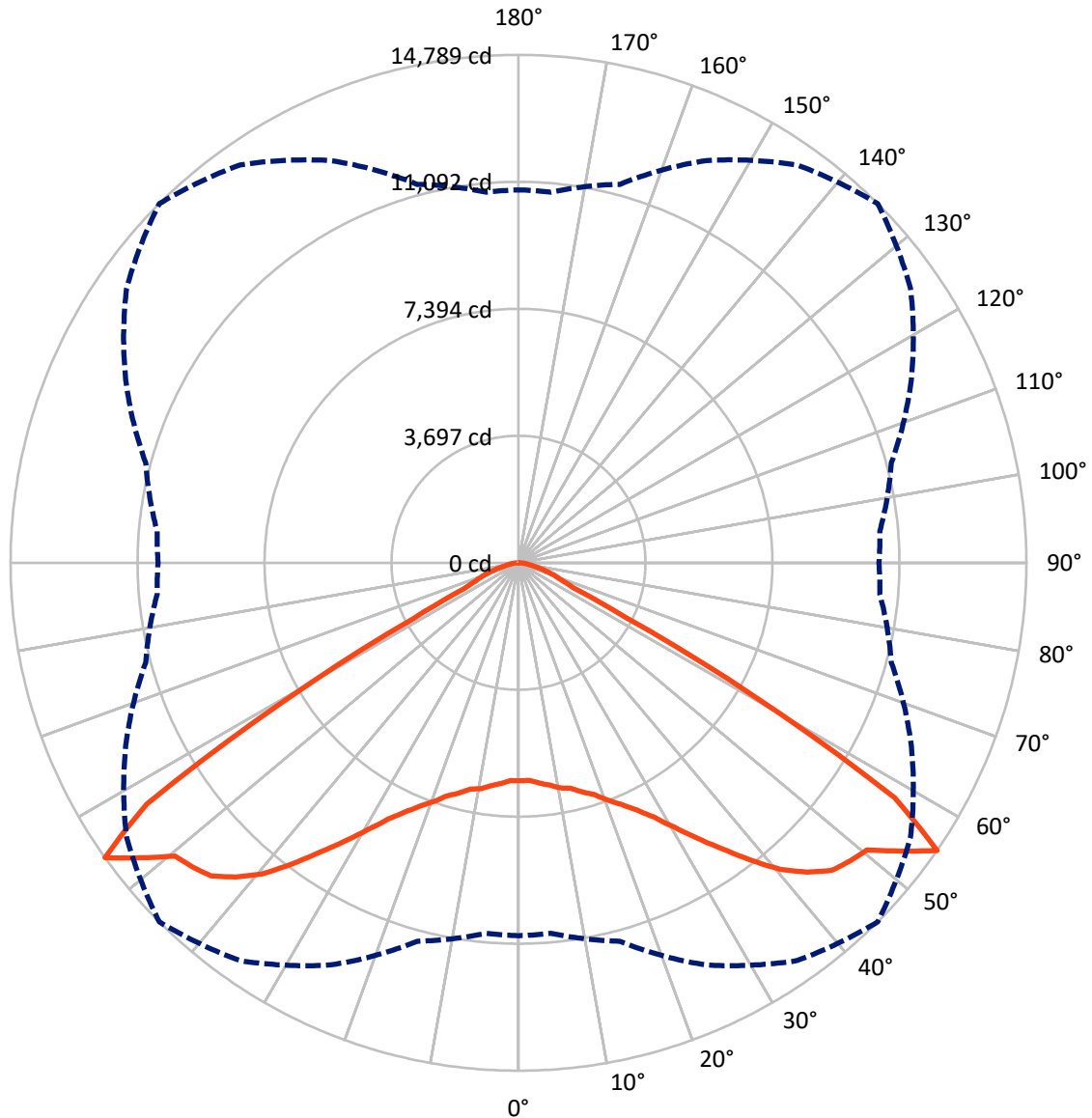
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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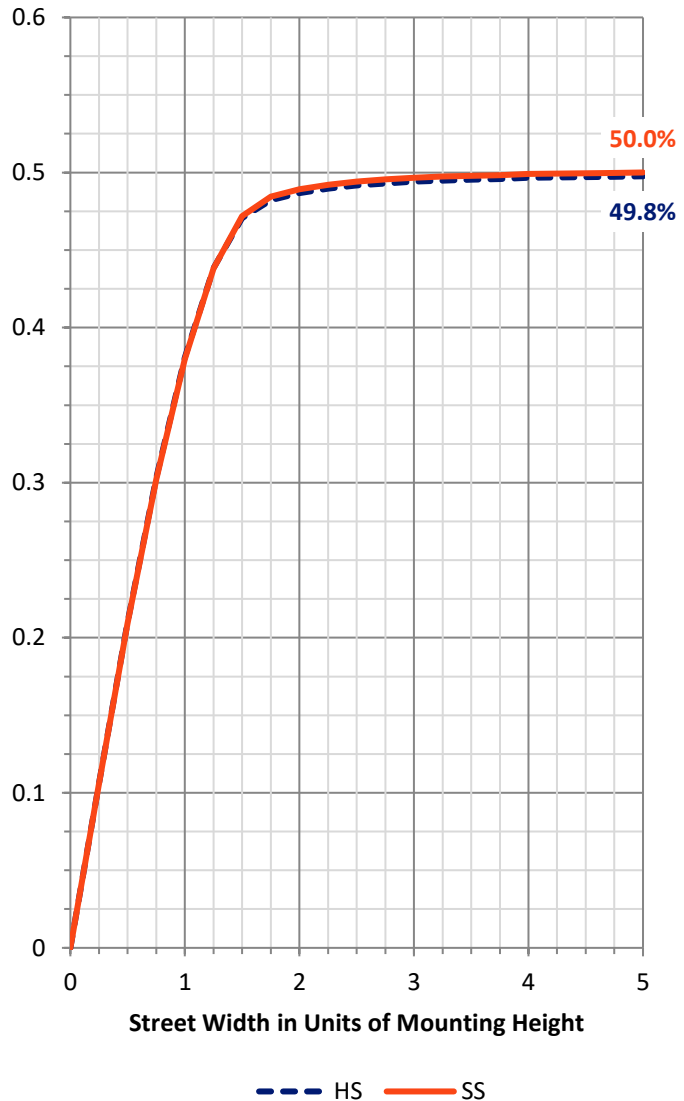
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 17374.6 | 0.0 | 17374.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 17374.6 | 0.0 | 17374.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 34749.3 | 0.0 | 34749.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 619.8 | 1.8 |
| 10°-20° | 1963.9 | 5.7 |
| 20°-30° | 3662.0 | 10.5 |
| 30°-40° | 6131.4 | 17.6 |
| 40°-50° | 9541.0 | 27.5 |
| 50°-60° | 9906.6 | 28.5 |
| 60°-70° | 2100.9 | 6.0 |
| 70°-80° | 691.9 | 2.0 |
| 80°-90° | 131.8 | 0.4 |
| 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° | 34749.3 | 100.0 |
| 0°-180° | 34749.3 | 100.0 |

Coefficient of Utilization



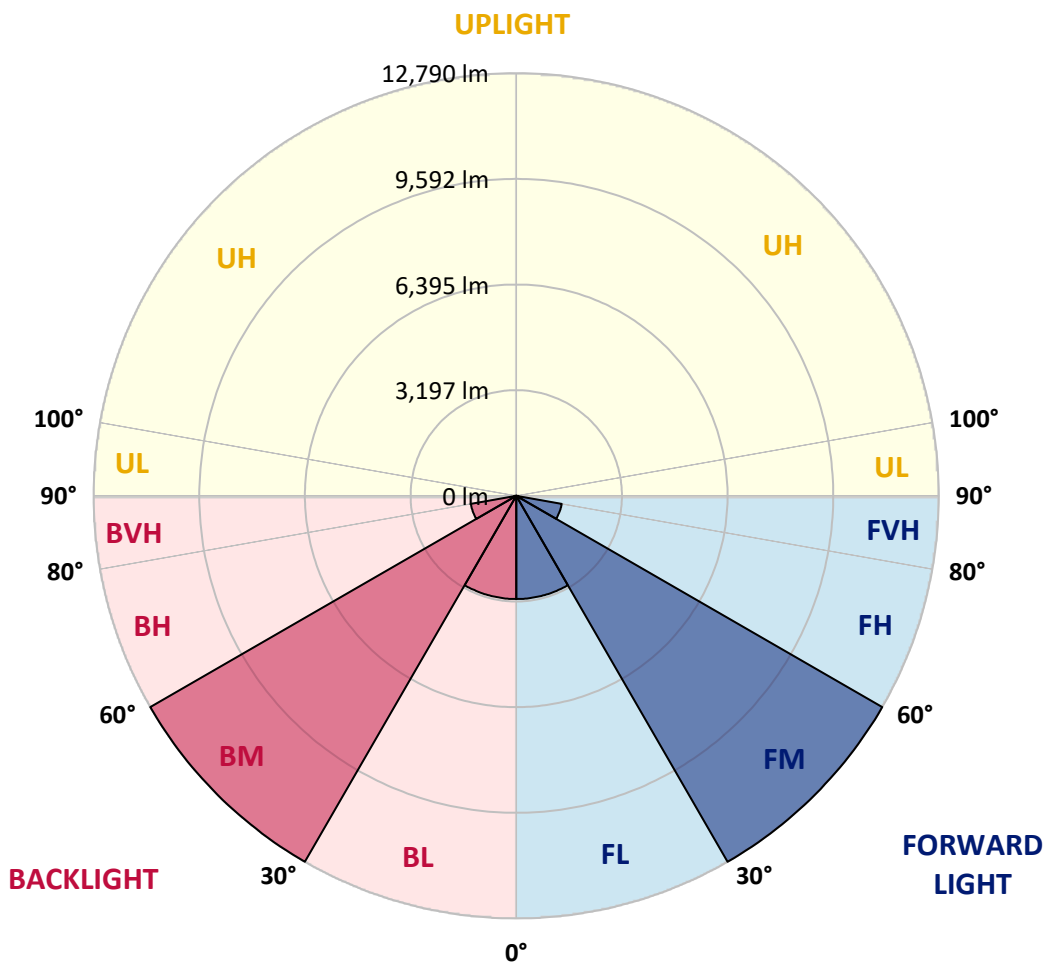
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3122.9 | 9.0 | | | |
| FM (30°-60°) | 12789.5 | 36.8 | | | |
| FH (60°-80°) | 1396.4 | 4.0 | | | G1/1800 |
| FVH (80°-90°) | 65.9 | 0.2 | | | G1/100 |
| BL (0°-30°) | 3122.9 | 9.0 | B4/5000 | | |
| BM (30°-60°) | 12789.5 | 36.8 | B5 | | |
| BH (60°-80°) | 1396.4 | 4.0 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 65.9 | 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6344.7 | 6344.7 | 6344.7 | 6344.7 | 6344.7 | 6344.7 | 6344.7 | 6344.7 | 6344.7 | 6344.7 | 6344.7 |
| 2.5° | 6420.3 | 6390.9 | 6340.5 | 6378.3 | 6407.7 | 6344.7 | 6369.9 | 6382.5 | 6374.1 | 6340.5 | 6353.1 |
| 5° | 6512.6 | 6495.9 | 6453.8 | 6483.3 | 6445.5 | 6445.5 | 6420.3 | 6386.7 | 6437.1 | 6428.7 | 6449.7 |
| 7.5° | 6512.6 | 6491.7 | 6575.6 | 6521.0 | 6537.8 | 6537.8 | 6495.9 | 6462.2 | 6487.5 | 6449.7 | 6428.7 |
| 10° | 6642.8 | 6672.2 | 6634.4 | 6647.0 | 6638.6 | 6668.0 | 6605.0 | 6584.0 | 6563.1 | 6550.5 | 6525.2 |
| 12.5° | 6798.2 | 6777.2 | 6789.8 | 6781.4 | 6810.8 | 6735.2 | 6697.4 | 6651.2 | 6689.0 | 6634.4 | 6672.2 |
| 15° | 6924.1 | 6911.6 | 6924.1 | 6957.8 | 6928.3 | 6924.1 | 6857.0 | 6810.8 | 6752.0 | 6764.6 | 6705.8 |
| 17.5° | 7096.4 | 7083.7 | 7087.9 | 7117.3 | 7113.1 | 7092.2 | 7041.8 | 6953.6 | 6932.5 | 6899.0 | 6861.2 |
| 20° | 7352.4 | 7331.5 | 7323.1 | 7335.7 | 7356.6 | 7373.5 | 7272.7 | 7239.1 | 7167.7 | 7113.1 | 7050.1 |
| 22.5° | 7570.9 | 7562.4 | 7596.0 | 7541.4 | 7587.6 | 7638.0 | 7541.4 | 7524.6 | 7348.2 | 7318.9 | 7251.7 |
| 25° | 7873.1 | 7860.6 | 7839.5 | 7919.4 | 7973.9 | 7969.7 | 7877.3 | 7785.0 | 7650.6 | 7617.0 | 7617.0 |
| 27.5° | 8192.3 | 8120.9 | 8230.0 | 8251.1 | 8347.6 | 8377.0 | 8297.2 | 8162.8 | 8036.9 | 7965.5 | 7982.4 |
| 30° | 8591.2 | 8524.0 | 8549.2 | 8700.3 | 8826.3 | 8935.5 | 8734.0 | 8536.6 | 8360.2 | 8234.2 | 8213.3 |
| 32.5° | 8990.0 | 8922.9 | 8998.4 | 9145.5 | 9397.4 | 9561.2 | 9363.8 | 9019.5 | 8813.7 | 8629.0 | 8666.8 |
| 35° | 9313.4 | 9363.8 | 9485.6 | 9708.1 | 9968.5 | 10233.0 | 9918.1 | 9653.5 | 9359.6 | 9153.9 | 9183.2 |
| 37.5° | 9834.1 | 9989.4 | 10086.0 | 10342.1 | 10711.6 | 10984.6 | 10657.1 | 10312.8 | 9997.8 | 9729.1 | 9636.7 |
| 40° | 10514.4 | 10619.3 | 10728.5 | 11030.8 | 11467.5 | 11740.4 | 11429.7 | 10980.4 | 10669.7 | 10392.6 | 10380.0 |
| 42.5° | 11261.7 | 11362.5 | 11475.9 | 11845.4 | 12105.8 | 12311.5 | 12026.0 | 11786.6 | 11442.3 | 11224.0 | 11211.4 |
| 45° | 12130.9 | 12059.5 | 12185.5 | 12429.1 | 12647.4 | 12781.8 | 12597.0 | 12479.4 | 12231.7 | 12030.2 | 12009.1 |
| 47.5° | 12710.4 | 12647.4 | 12874.2 | 13092.5 | 13126.1 | 12979.2 | 13016.9 | 13126.1 | 12865.8 | 12534.0 | 12639.1 |
| 50° | 13046.3 | 13046.3 | 13197.5 | 13399.1 | 13336.1 | 13147.1 | 13445.2 | 13453.6 | 13193.3 | 12899.3 | 12899.3 |
| 52.5° | 12462.7 | 12592.8 | 13021.1 | 13680.4 | 13890.3 | 13944.9 | 13877.7 | 13592.2 | 12912.0 | 12311.5 | 12282.1 |
| 55° | 10858.7 | 10829.2 | 11408.7 | 12920.4 | 14142.3 | 14788.9 | 13932.3 | 12618.0 | 11236.5 | 10560.5 | 10493.3 |
| 57.5° | 7062.7 | 7096.4 | 7961.3 | 9502.4 | 11706.8 | 12912.0 | 11467.5 | 9619.9 | 7961.3 | 7029.2 | 7117.3 |
| 60° | 3178.6 | 3292.0 | 3816.9 | 4967.5 | 6861.2 | 7843.8 | 6878.0 | 5219.3 | 4005.9 | 3476.8 | 3522.9 |
| 62.5° | 1826.6 | 1847.6 | 1868.5 | 2217.0 | 2922.5 | 3455.8 | 3035.8 | 2343.0 | 2065.9 | 1973.6 | 1973.6 |
| 65° | 1541.0 | 1528.4 | 1532.6 | 1562.0 | 1637.6 | 1746.8 | 1700.6 | 1637.6 | 1646.0 | 1637.6 | 1625.0 |
| 67.5° | 1310.1 | 1326.8 | 1314.3 | 1335.3 | 1339.5 | 1356.3 | 1385.6 | 1410.9 | 1415.1 | 1423.5 | 1415.1 |
| 70° | 1075.0 | 1079.2 | 1087.6 | 1104.3 | 1108.5 | 1121.1 | 1163.1 | 1184.1 | 1196.7 | 1196.7 | 1213.5 |
| 72.5° | 823.0 | 818.8 | 827.2 | 844.0 | 865.0 | 869.2 | 907.0 | 936.4 | 953.2 | 932.2 | 936.4 |
| 75° | 541.7 | 545.9 | 558.5 | 571.0 | 600.5 | 629.8 | 642.4 | 671.9 | 676.1 | 684.4 | 663.5 |
| 77.5° | 323.4 | 331.7 | 344.3 | 369.5 | 394.7 | 419.9 | 449.3 | 470.3 | 478.7 | 470.3 | 445.1 |
| 80° | 209.9 | 209.9 | 226.7 | 247.8 | 277.1 | 298.1 | 315.0 | 331.7 | 344.3 | 331.7 | 323.4 |
| 82.5° | 130.2 | 130.2 | 151.1 | 176.4 | 197.4 | 209.9 | 235.1 | 256.2 | 268.7 | 260.4 | 247.8 |
| 85° | 67.2 | 71.4 | 88.2 | 109.2 | 126.0 | 134.4 | 130.2 | 117.6 | 105.0 | 100.8 | 92.3 |
| 87.5° | 21.0 | 21.0 | 25.2 | 25.2 | 21.0 | 21.0 | 25.2 | 21.0 | 25.2 | 25.2 | 25.2 |
| 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)