

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: P526923

Luminaire Tested: **GLAN-SA1D-830-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526923
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA1D-830-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4273 lumens
Efficiency: N/A
Efficacy: 65.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

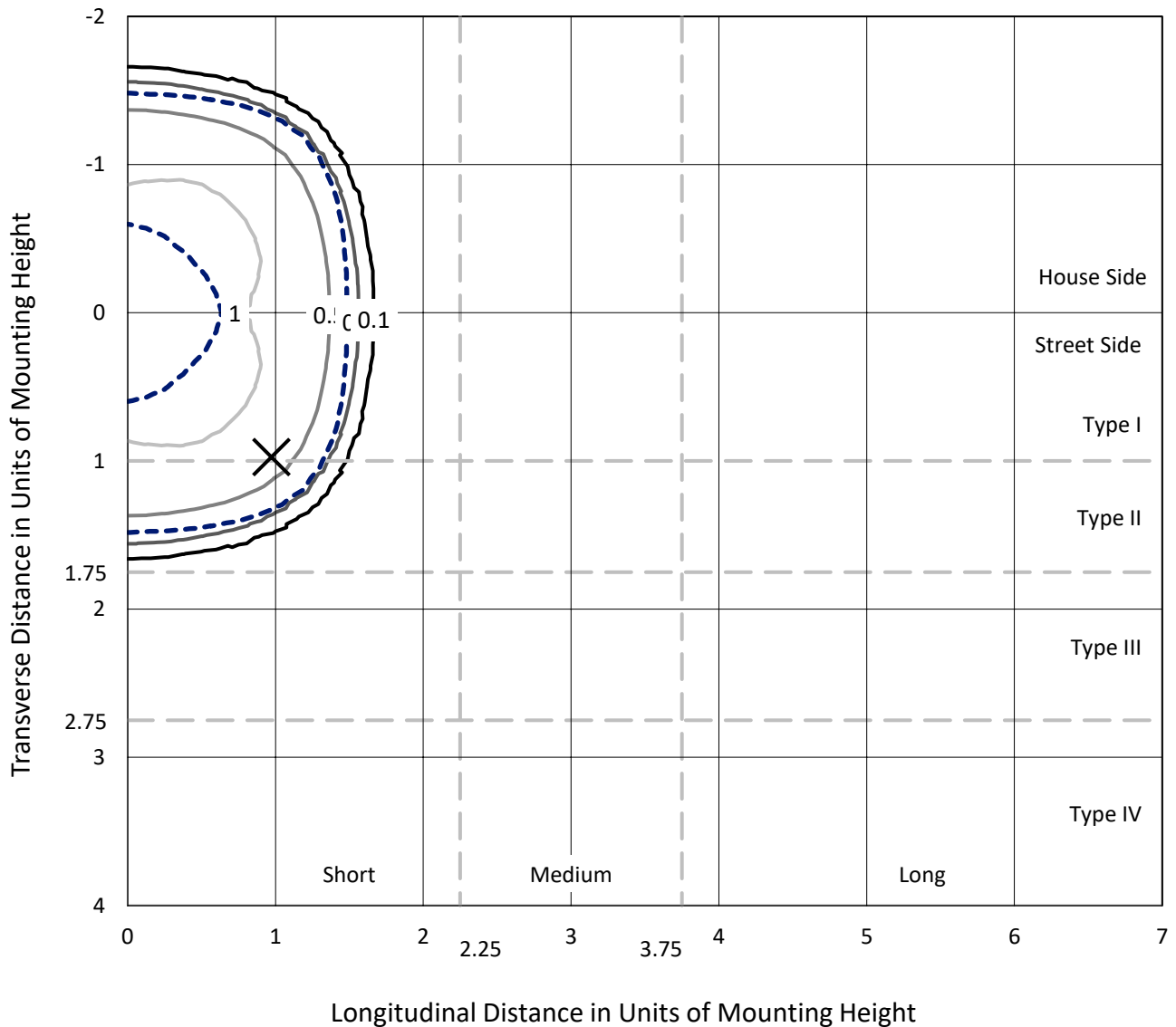
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

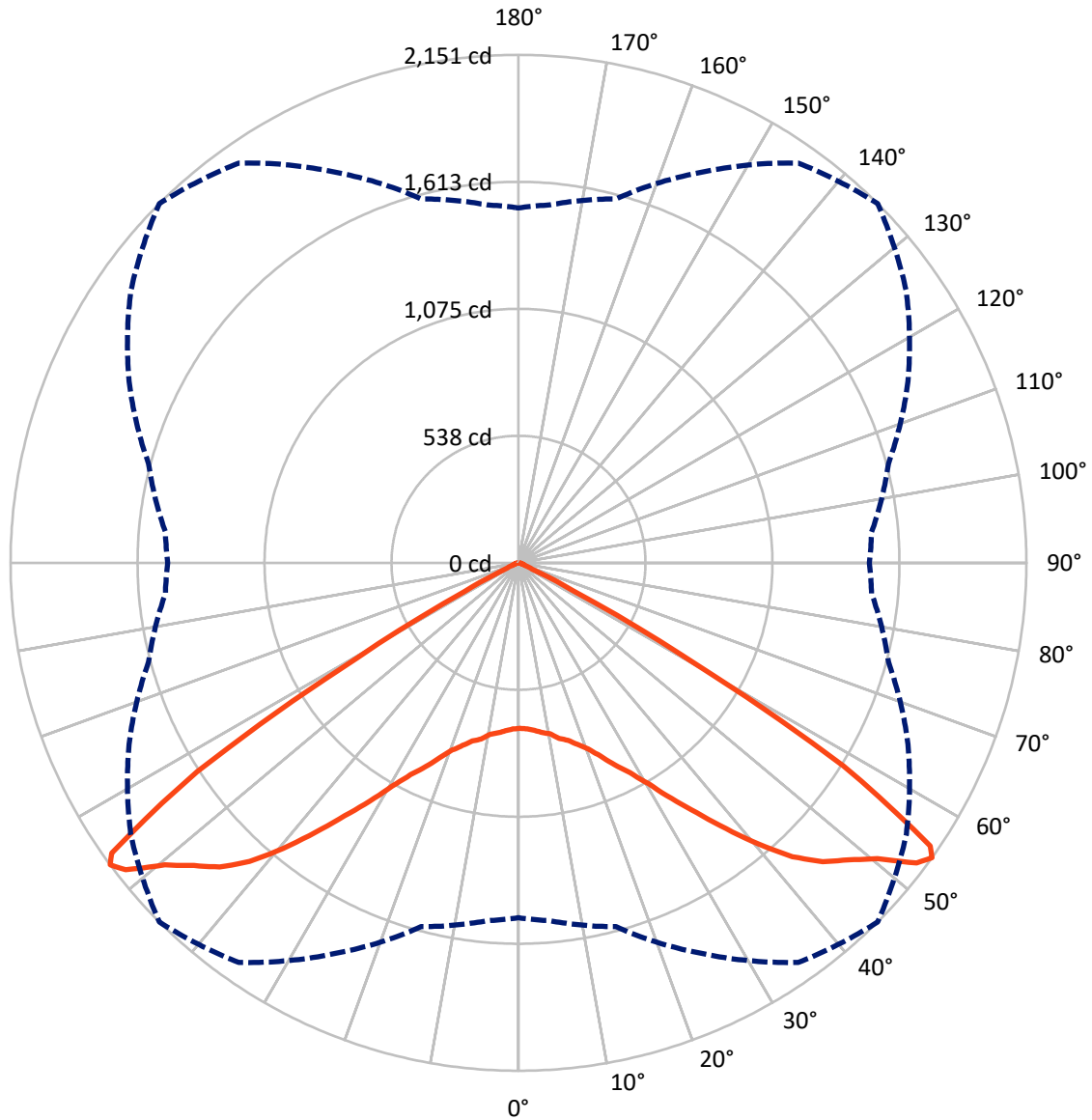
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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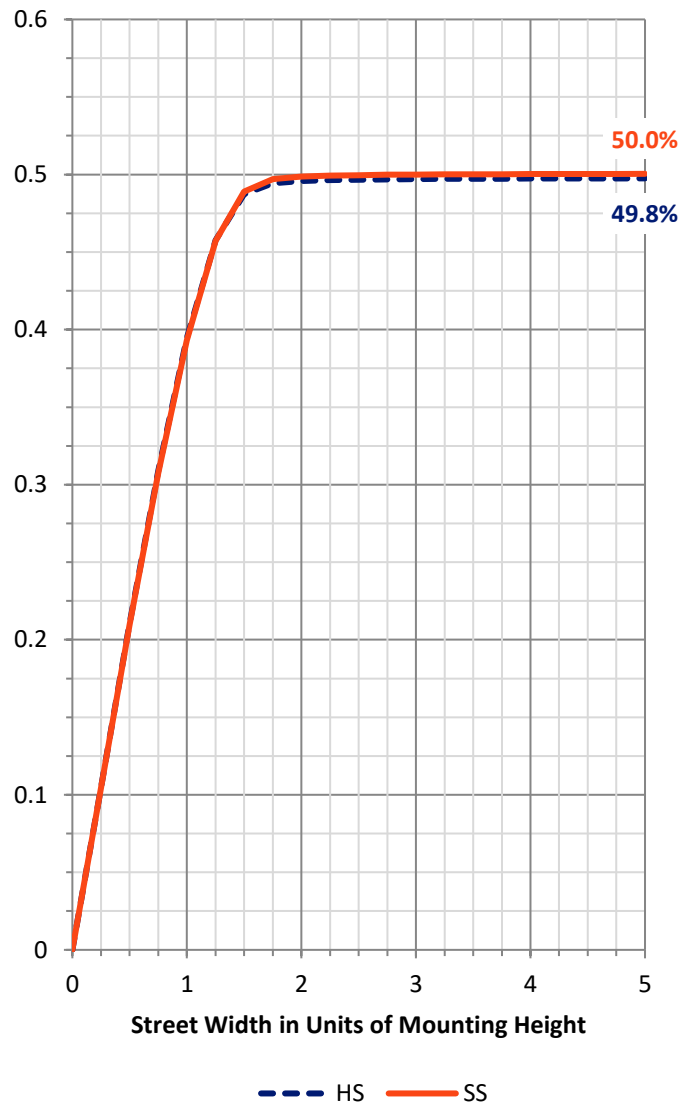
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2136.5 | 0.0 | 2136.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2136.5 | 0.0 | 2136.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 4273.0 | 0.0 | 4273.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 68.6 | 1.6 |
| 10°-20° | 222.1 | 5.2 |
| 20°-30° | 435.3 | 10.2 |
| 30°-40° | 782.7 | 18.3 |
| 40°-50° | 1339.8 | 31.4 |
| 50°-60° | 1296.4 | 30.3 |
| 60°-70° | 111.0 | 2.6 |
| 70°-80° | 13.2 | 0.3 |
| 80°-90° | 4.1 | 0.1 |
| 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° | 4273.0 | 100.0 |
| 0°-180° | 4273.0 | 100.0 |

Coefficient of Utilization

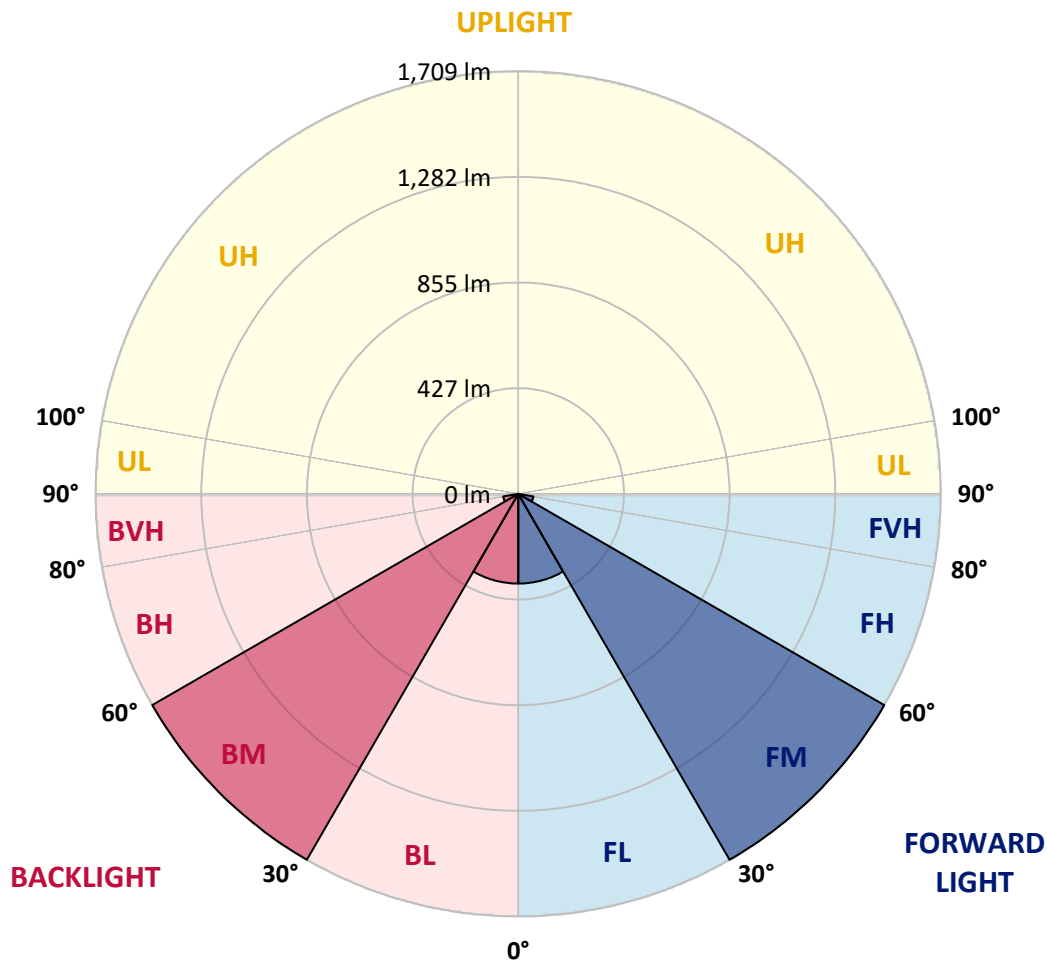


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 363.0 | 8.5 | | | |
| FM (30°-60°) | 1709.4 | 40.0 | | | |
| FH (60°-80°) | 62.1 | 1.5 | | | G0/660 |
| FVH (80°-90°) | 2.1 | 0.0 | | | G0/10 |
| BL (0°-30°) | 363.0 | 8.5 | B1/500 | | |
| BM (30°-60°) | 1709.4 | 40.0 | B2/2500 | | |
| BH (60°-80°) | 62.1 | 1.5 | B0/110 | | G0/660 |
| BVH (80°-90°) | 2.1 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 700.6 | 700.6 | 700.6 | 700.6 | 700.6 | 700.6 | 700.6 | 700.6 | 700.6 | 700.6 | 700.6 |
| 2.5° | 704.0 | 708.1 | 705.4 | 707.4 | 707.4 | 704.0 | 706.1 | 697.9 | 703.3 | 699.3 | 700.0 |
| 5° | 714.9 | 714.2 | 714.2 | 714.9 | 712.1 | 713.5 | 710.8 | 708.1 | 706.1 | 703.3 | 711.5 |
| 7.5° | 728.4 | 728.4 | 723.7 | 725.0 | 723.7 | 725.7 | 720.3 | 714.9 | 712.8 | 710.8 | 709.4 |
| 10° | 741.3 | 739.9 | 737.9 | 744.0 | 739.2 | 736.5 | 733.8 | 730.4 | 723.0 | 720.3 | 717.6 |
| 12.5° | 760.2 | 759.5 | 756.8 | 762.9 | 760.2 | 762.9 | 752.8 | 744.0 | 742.6 | 733.8 | 738.5 |
| 15° | 782.5 | 788.6 | 783.9 | 783.9 | 782.5 | 779.2 | 775.1 | 771.0 | 758.9 | 755.5 | 756.1 |
| 17.5° | 811.7 | 809.6 | 810.3 | 810.3 | 817.1 | 808.3 | 800.1 | 790.0 | 783.9 | 781.9 | 775.1 |
| 20° | 839.4 | 842.1 | 841.4 | 846.2 | 850.2 | 840.8 | 832.0 | 830.6 | 813.7 | 816.4 | 806.9 |
| 22.5° | 888.2 | 886.1 | 889.5 | 892.9 | 890.2 | 888.8 | 880.7 | 870.6 | 855.7 | 848.9 | 847.5 |
| 25° | 939.6 | 936.2 | 930.1 | 938.2 | 942.3 | 948.4 | 932.8 | 927.4 | 904.4 | 894.2 | 894.9 |
| 27.5° | 983.6 | 988.3 | 995.1 | 998.5 | 1008.6 | 1006.6 | 995.8 | 978.2 | 960.6 | 949.1 | 941.6 |
| 30° | 1043.9 | 1046.6 | 1058.1 | 1062.8 | 1080.4 | 1085.1 | 1068.2 | 1047.9 | 1016.8 | 1001.9 | 993.1 |
| 32.5° | 1099.4 | 1118.3 | 1117.6 | 1141.3 | 1169.8 | 1189.4 | 1158.9 | 1127.8 | 1096.7 | 1079.1 | 1063.5 |
| 35° | 1189.4 | 1186.0 | 1205.6 | 1230.7 | 1276.7 | 1299.1 | 1265.9 | 1230.0 | 1182.6 | 1154.2 | 1142.0 |
| 37.5° | 1273.3 | 1274.7 | 1301.1 | 1341.0 | 1393.8 | 1428.4 | 1399.2 | 1340.4 | 1291.6 | 1255.1 | 1238.1 |
| 40° | 1395.2 | 1397.9 | 1425.0 | 1470.3 | 1529.9 | 1567.1 | 1533.3 | 1473.7 | 1408.7 | 1380.3 | 1380.3 |
| 42.5° | 1538.0 | 1549.5 | 1567.1 | 1606.4 | 1659.9 | 1701.2 | 1670.7 | 1624.0 | 1558.3 | 1521.8 | 1527.2 |
| 45° | 1684.9 | 1690.3 | 1701.8 | 1760.1 | 1785.1 | 1805.4 | 1777.0 | 1755.3 | 1711.3 | 1666.6 | 1659.2 |
| 47.5° | 1822.3 | 1824.4 | 1858.2 | 1876.5 | 1896.1 | 1879.2 | 1897.5 | 1869.0 | 1819.6 | 1776.3 | 1767.5 |
| 50° | 1883.3 | 1879.9 | 1927.9 | 1983.5 | 1998.3 | 1968.6 | 1953.0 | 1934.0 | 1858.9 | 1806.8 | 1783.8 |
| 52.5° | 1705.9 | 1725.5 | 1814.9 | 1969.2 | 2085.7 | 2110.7 | 2020.0 | 1932.7 | 1792.6 | 1691.0 | 1675.4 |
| 54° | 1502.8 | 1521.1 | 1594.9 | 1823.7 | 2066.0 | 2150.7 | 2004.4 | 1819.0 | 1621.3 | 1500.8 | 1485.2 |
| 55° | 1301.8 | 1281.5 | 1415.5 | 1649.0 | 1974.0 | 2115.5 | 1942.8 | 1672.1 | 1446.0 | 1335.6 | 1314.0 |
| 57.5° | 704.7 | 708.1 | 821.1 | 1041.8 | 1387.1 | 1622.0 | 1432.4 | 1131.2 | 854.3 | 730.4 | 719.6 |
| 60° | 223.4 | 228.8 | 278.2 | 421.1 | 662.7 | 791.3 | 678.3 | 454.2 | 314.1 | 251.8 | 241.7 |
| 62.5° | 69.7 | 72.4 | 79.2 | 117.8 | 181.4 | 259.3 | 203.1 | 121.9 | 90.7 | 83.3 | 84.6 |
| 65° | 42.6 | 42.6 | 43.3 | 46.0 | 54.2 | 63.0 | 60.9 | 53.5 | 51.4 | 50.1 | 49.4 |
| 67.5° | 27.8 | 27.1 | 28.4 | 30.5 | 31.8 | 32.5 | 34.5 | 36.6 | 35.9 | 34.5 | 34.5 |
| 70° | 16.9 | 16.2 | 17.6 | 20.3 | 21.0 | 22.3 | 24.4 | 27.1 | 26.4 | 25.0 | 25.7 |
| 72.5° | 9.5 | 9.5 | 10.2 | 12.2 | 14.2 | 15.6 | 17.6 | 19.6 | 20.3 | 19.6 | 19.6 |
| 75° | 3.4 | 4.1 | 5.4 | 7.4 | 8.8 | 10.8 | 12.9 | 14.9 | 16.9 | 15.6 | 14.9 |
| 77.5° | 1.4 | 1.4 | 2.7 | 4.7 | 6.8 | 8.8 | 12.2 | 14.2 | 15.6 | 14.2 | 12.9 |
| 80° | 0.7 | 0.7 | 2.0 | 4.1 | 6.1 | 8.1 | 10.2 | 12.2 | 12.9 | 11.5 | 10.2 |
| 82.5° | 0.7 | 0.7 | 2.0 | 4.1 | 6.1 | 7.4 | 10.8 | 12.2 | 13.5 | 12.2 | 10.2 |
| 85° | 0.0 | 0.7 | 2.0 | 4.1 | 5.4 | 6.1 | 6.1 | 4.1 | 3.4 | 2.0 | 2.0 |
| 87.5° | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)