

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: P939830

Luminaire Tested: **GLAN-SB2C-840-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939830  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB2C-840-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14491 lumens  
Efficiency: N/A  
Efficacy: 143.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

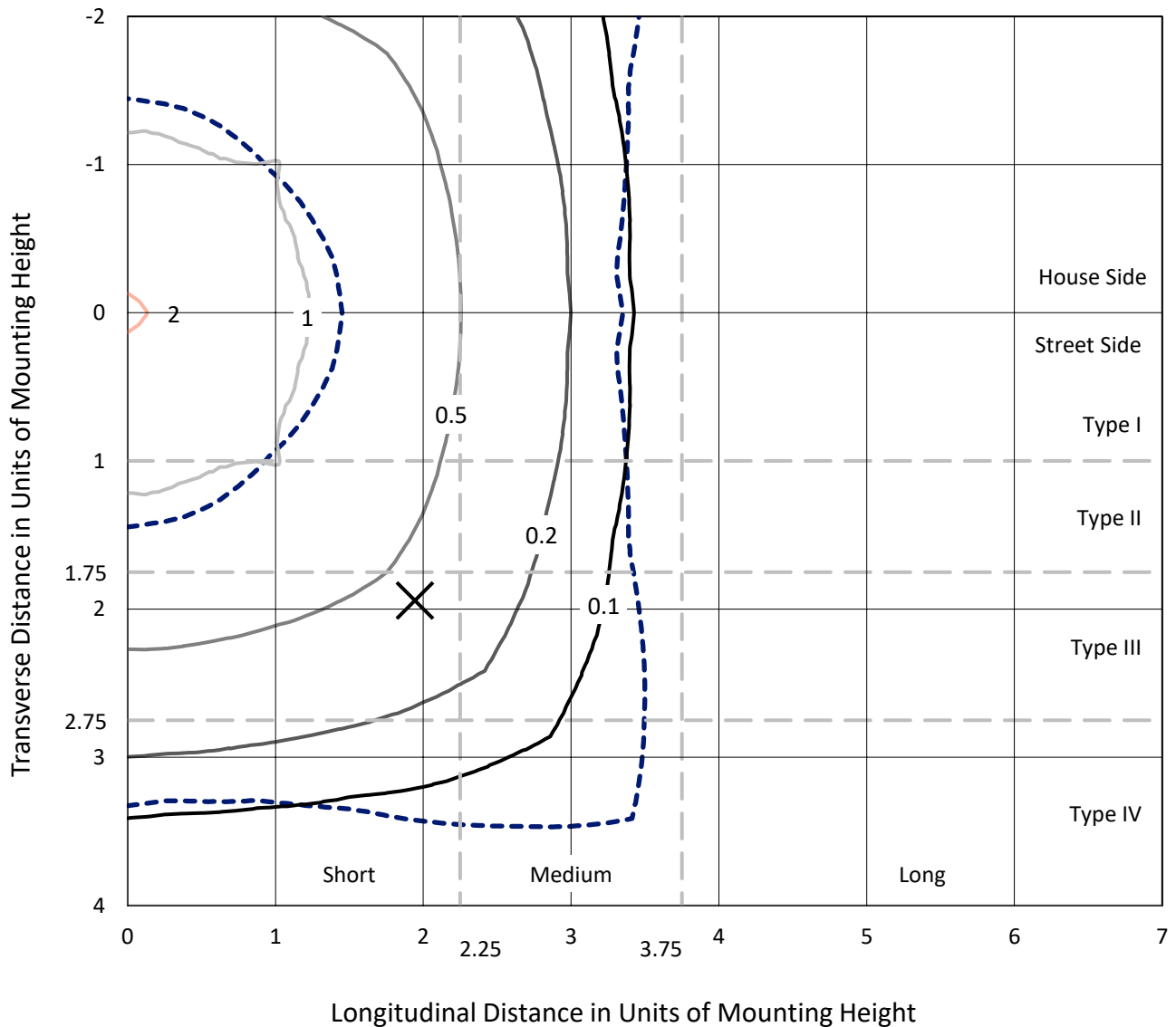
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

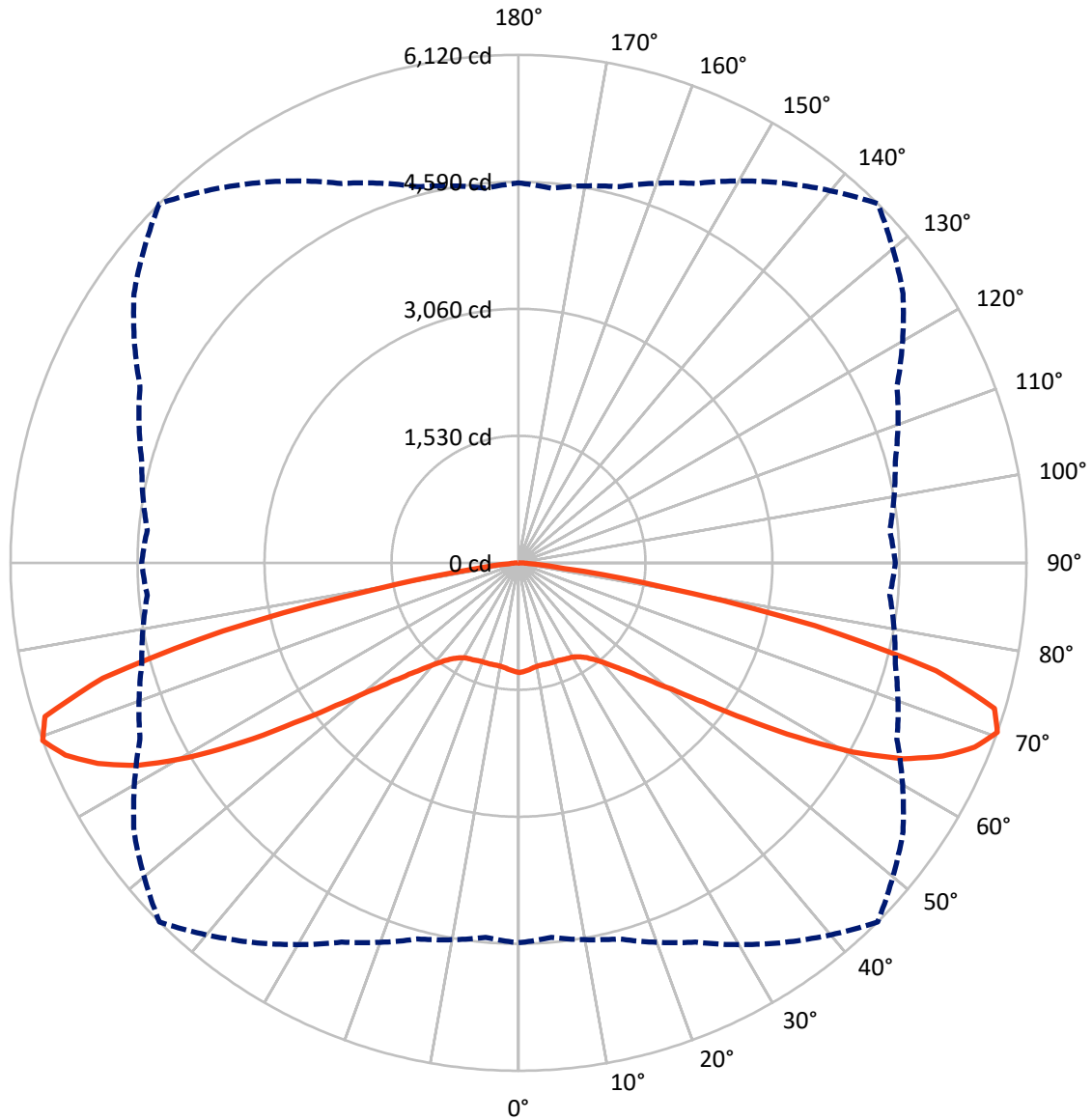
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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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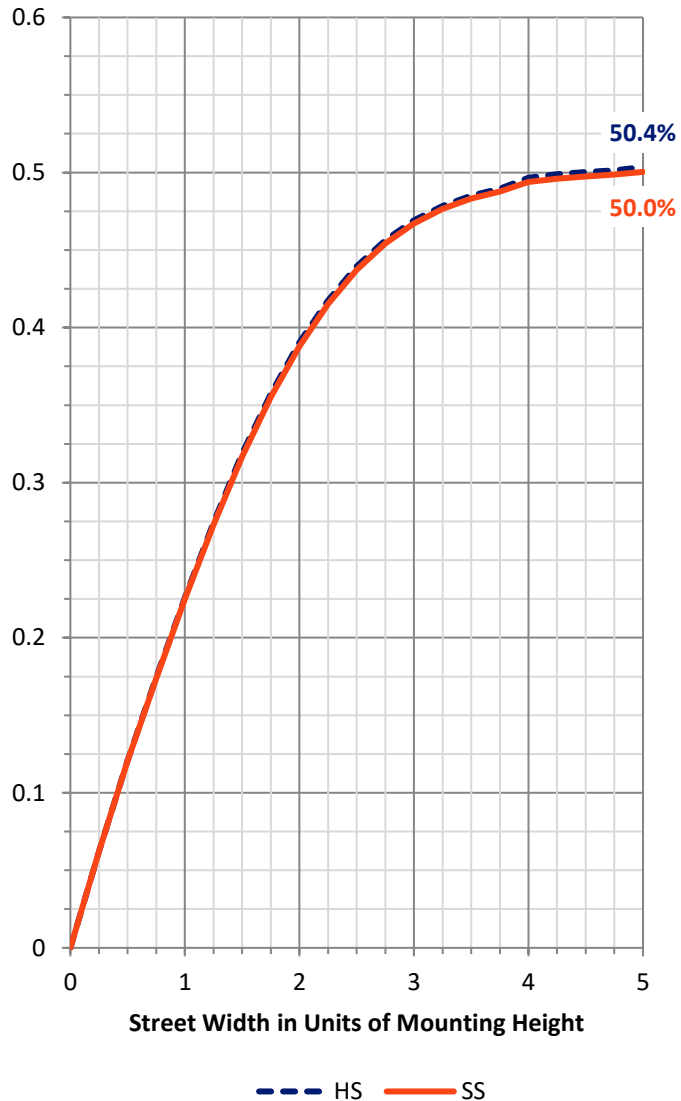
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 7245.5   | 0.0    | 7245.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 7245.5   | 0.0    | 7245.5  |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 14491.0  | 0.0    | 14491.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 123.0   | 0.8       |
| 10°-20°   | 361.1   | 2.5       |
| 20°-30°   | 600.8   | 4.1       |
| 30°-40°   | 908.7   | 6.3       |
| 40°-50°   | 1510.0  | 10.4      |
| 50°-60°   | 2849.3  | 19.7      |
| 60°-70°   | 4811.1  | 33.2      |
| 70°-80°   | 3161.4  | 21.8      |
| 80°-90°   | 165.6   | 1.1       |
| 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°    | 14491.0 | 100.0     |
| 0°-180°   | 14491.0 | 100.0     |

**Coefficient of Utilization**



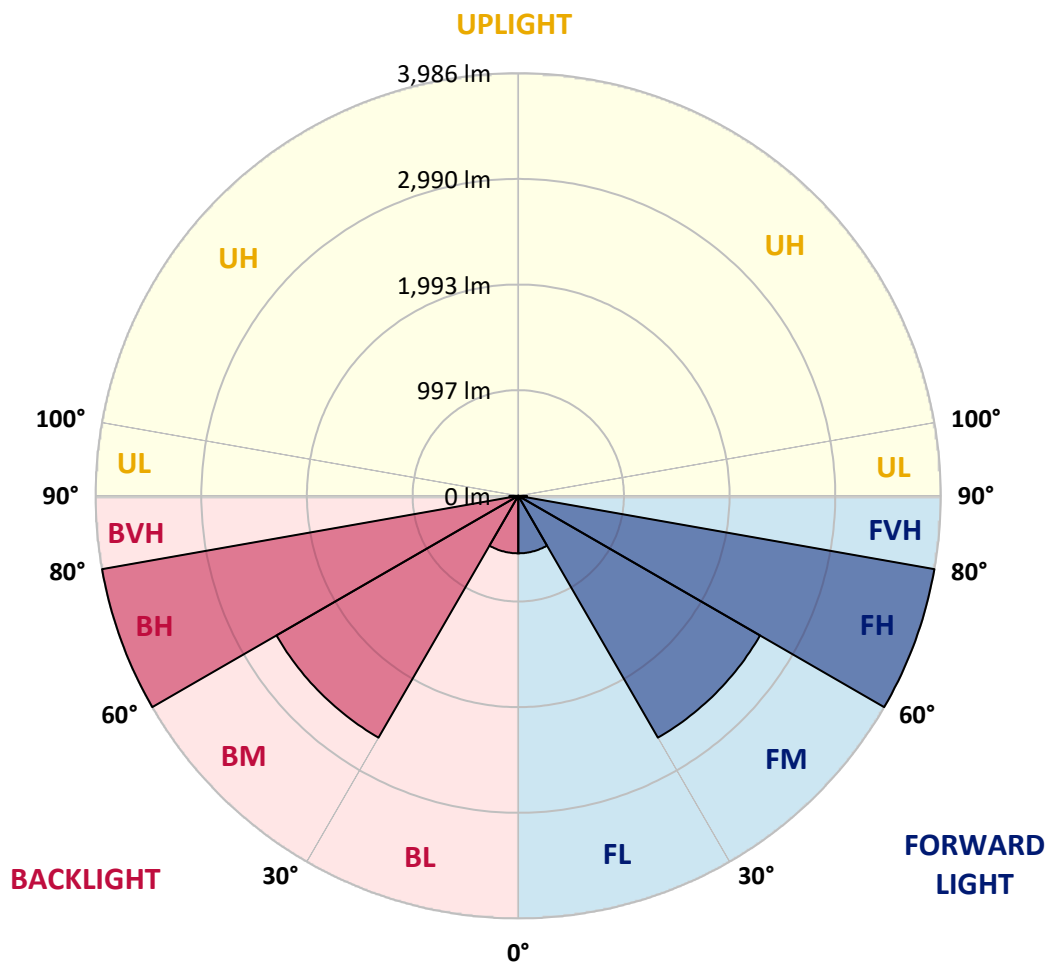
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 542.4  | 3.7       |                         |      |         |
| FM (30°-60°)   | 2634.0 | 18.2      |                         |      |         |
| FH (60°-80°)   | 3986.3 | 27.5      |                         |      | G2/5000 |
| FVH (80°-90°)  | 82.8   | 0.6       |                         |      | G1/100  |
| BL (0°-30°)    | 542.4  | 3.7       | B2/1000                 |      |         |
| BM (30°-60°)   | 2634.0 | 18.2      | B3/5000                 |      |         |
| BH (60°-80°)   | 3986.3 | 27.5      | B4/5000                 |      | G2/5000 |
| BVH (80°-90°)  | 82.8   | 0.6       |                         |      | 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°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1321.9 | 1321.9 | 1321.9 | 1321.9 | 1321.9 | 1321.9 | 1321.9 | 1321.9 | 1321.9 | 1321.9 |
| 2.5°  | 1313.6 | 1317.4 | 1315.8 | 1312.8 | 1312.8 | 1310.6 | 1312.8 | 1314.3 | 1316.6 | 1318.1 |
| 5°    | 1296.3 | 1299.3 | 1298.5 | 1296.3 | 1297.0 | 1294.8 | 1296.3 | 1298.5 | 1300.0 | 1300.8 |
| 7.5°  | 1281.2 | 1284.2 | 1282.7 | 1278.9 | 1278.9 | 1276.7 | 1277.4 | 1279.7 | 1282.0 | 1282.7 |
| 10°   | 1277.4 | 1280.4 | 1275.9 | 1269.9 | 1267.6 | 1264.6 | 1265.4 | 1267.6 | 1272.2 | 1274.4 |
| 12.5° | 1278.9 | 1281.2 | 1276.7 | 1267.6 | 1265.4 | 1262.4 | 1262.4 | 1264.6 | 1270.7 | 1273.7 |
| 15°   | 1283.5 | 1285.7 | 1278.9 | 1269.1 | 1266.9 | 1264.6 | 1263.9 | 1266.9 | 1273.7 | 1278.9 |
| 17.5° | 1291.7 | 1294.0 | 1283.5 | 1269.9 | 1266.9 | 1267.6 | 1266.9 | 1269.1 | 1279.7 | 1289.5 |
| 20°   | 1299.3 | 1300.8 | 1286.5 | 1269.9 | 1266.9 | 1267.6 | 1266.9 | 1271.4 | 1285.0 | 1298.5 |
| 22.5° | 1301.5 | 1303.0 | 1289.5 | 1275.2 | 1272.9 | 1273.7 | 1272.9 | 1277.4 | 1290.2 | 1303.8 |
| 25°   | 1302.3 | 1304.5 | 1294.0 | 1282.7 | 1286.5 | 1288.0 | 1286.5 | 1287.2 | 1297.0 | 1309.1 |
| 27.5° | 1313.6 | 1316.6 | 1306.8 | 1297.0 | 1299.3 | 1298.5 | 1300.8 | 1303.0 | 1310.6 | 1322.6 |
| 30°   | 1336.9 | 1339.2 | 1330.9 | 1321.1 | 1319.6 | 1314.3 | 1321.1 | 1328.6 | 1336.9 | 1347.5 |
| 32.5° | 1375.3 | 1379.9 | 1369.3 | 1358.8 | 1352.0 | 1349.0 | 1354.3 | 1367.1 | 1378.4 | 1389.7 |
| 35°   | 1439.4 | 1442.4 | 1432.6 | 1413.0 | 1401.0 | 1401.0 | 1405.5 | 1422.0 | 1440.1 | 1454.4 |
| 37.5° | 1529.8 | 1533.5 | 1516.2 | 1492.8 | 1474.8 | 1474.8 | 1480.8 | 1498.1 | 1525.2 | 1545.6 |
| 40°   | 1639.7 | 1645.0 | 1623.2 | 1599.0 | 1581.7 | 1578.7 | 1586.2 | 1605.8 | 1631.4 | 1657.0 |
| 42.5° | 1772.3 | 1778.3 | 1749.7 | 1728.6 | 1715.0 | 1715.0 | 1718.8 | 1736.9 | 1760.2 | 1791.9 |
| 45°   | 1941.8 | 1952.3 | 1913.1 | 1892.0 | 1879.2 | 1882.3 | 1884.5 | 1900.3 | 1921.4 | 1957.6 |
| 47.5° | 2143.6 | 2154.2 | 2112.7 | 2090.9 | 2088.6 | 2102.9 | 2093.9 | 2105.2 | 2116.5 | 2157.9 |
| 50°   | 2372.6 | 2390.7 | 2362.0 | 2360.5 | 2365.1 | 2391.4 | 2370.3 | 2376.4 | 2363.6 | 2389.9 |
| 52.5° | 2652.8 | 2679.1 | 2673.9 | 2682.9 | 2733.4 | 2787.6 | 2739.4 | 2718.3 | 2670.1 | 2678.4 |
| 55°   | 2992.5 | 3032.4 | 3039.9 | 3094.2 | 3208.6 | 3319.4 | 3216.9 | 3131.8 | 3029.4 | 3010.6 |
| 57.5° | 3378.9 | 3410.5 | 3446.7 | 3557.4 | 3771.3 | 3967.9 | 3771.3 | 3583.0 | 3421.8 | 3383.4 |
| 60°   | 3794.6 | 3833.8 | 3868.4 | 4031.9 | 4349.7 | 4626.2 | 4343.7 | 4044.7 | 3831.5 | 3779.6 |
| 62.5° | 4241.3 | 4291.7 | 4315.9 | 4497.4 | 4867.9 | 5197.9 | 4873.2 | 4510.9 | 4274.4 | 4218.7 |
| 65°   | 4669.9 | 4711.3 | 4738.4 | 4932.0 | 5286.0 | 5616.6 | 5310.1 | 4953.1 | 4709.8 | 4636.7 |
| 67.5° | 4869.5 | 4892.1 | 4958.3 | 5177.5 | 5551.1 | 5928.5 | 5614.4 | 5200.9 | 4929.0 | 4800.9 |
| 70°   | 4577.2 | 4531.3 | 4690.9 | 5041.9 | 5582.7 | 6119.8 | 5655.0 | 5031.4 | 4698.5 | 4490.6 |
| 72.5° | 3537.0 | 3458.0 | 3735.1 | 4335.4 | 5221.2 | 5997.8 | 5257.4 | 4369.3 | 3907.6 | 3485.8 |
| 75°   | 1924.4 | 1834.8 | 2217.4 | 2976.7 | 4163.7 | 5198.6 | 4259.4 | 3061.8 | 2469.0 | 1910.1 |
| 77.5° | 543.1  | 509.2  | 818.0  | 1440.1 | 2504.4 | 3650.0 | 2600.8 | 1471.8 | 970.1  | 575.4  |
| 80°   | 166.5  | 161.2  | 218.4  | 433.8  | 1063.5 | 1748.2 | 1022.1 | 439.1  | 277.9  | 175.5  |
| 82.5° | 98.7   | 90.4   | 108.5  | 158.2  | 271.2  | 549.1  | 263.6  | 165.0  | 132.6  | 88.9   |
| 85°   | 56.5   | 52.7   | 64.0   | 76.8   | 91.1   | 116.7  | 76.1   | 78.3   | 70.8   | 47.5   |
| 87.5° | 23.3   | 21.1   | 24.9   | 24.1   | 21.1   | 27.1   | 20.3   | 24.1   | 28.6   | 18.8   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

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| 90°    |
|--------|
| 1321.9 |
| 1317.4 |
| 1300.8 |
| 1282.7 |
| 1274.4 |
| 1274.4 |
| 1279.7 |
| 1289.5 |
| 1299.3 |
| 1303.8 |
| 1308.3 |
| 1319.6 |
| 1345.2 |
| 1385.1 |
| 1449.2 |
| 1538.0 |
| 1648.8 |
| 1789.6 |
| 1956.1 |
| 2145.9 |
| 2374.1 |
| 2650.5 |
| 2981.2 |
| 3356.3 |
| 3734.4 |
| 4173.5 |
| 4600.6 |
| 4802.4 |
| 4540.3 |
| 3590.5 |
| 2034.4 |
| 639.5  |
| 185.3  |
| 96.4   |
| 49.7   |
| 17.3   |
| 0.0    |

OF REPORT)