

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: P651763

Luminaire Tested: **GALN-SA3A-840-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651763
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-840-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6890.3 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

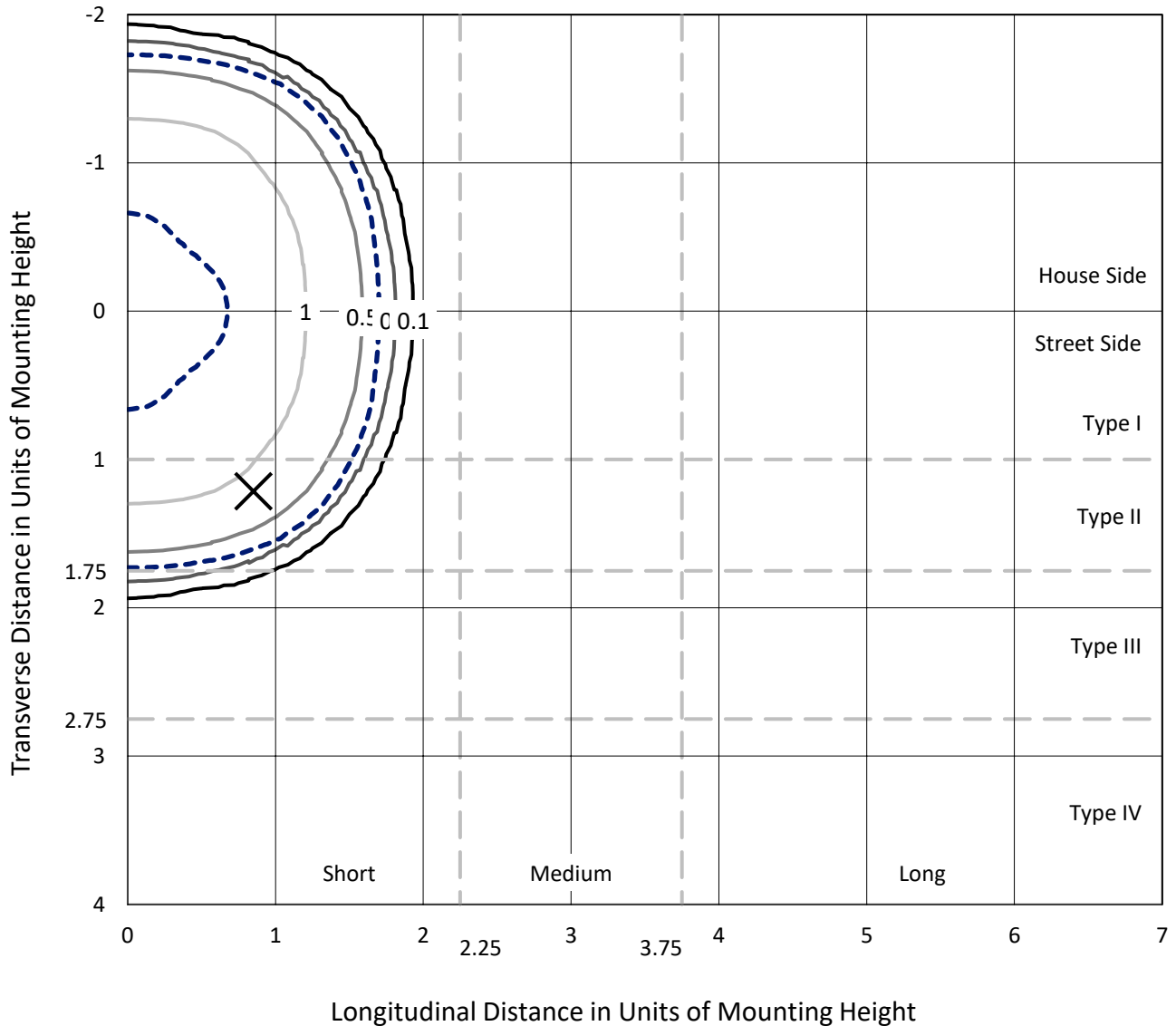
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651763
 CATALOG NUMBER: GALN-SA3A-840-U-5MQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

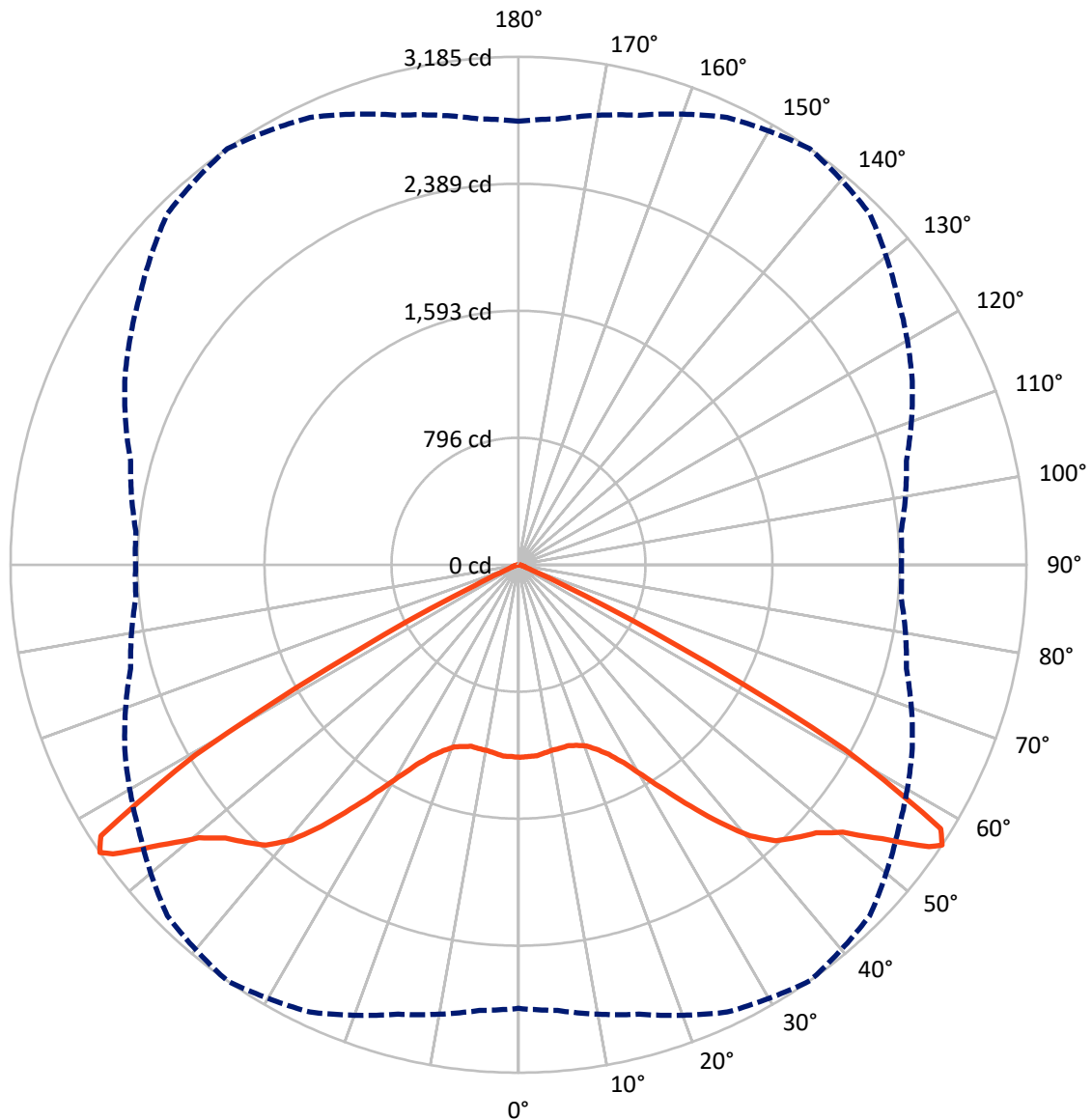
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - N/A

REPORT NUMBER: P651763
CATALOG NUMBER: GALN-SA3A-840-U-5MQ-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P651763
 CATALOG NUMBER: GALN-SA3A-840-U-5MQ-GRSBK

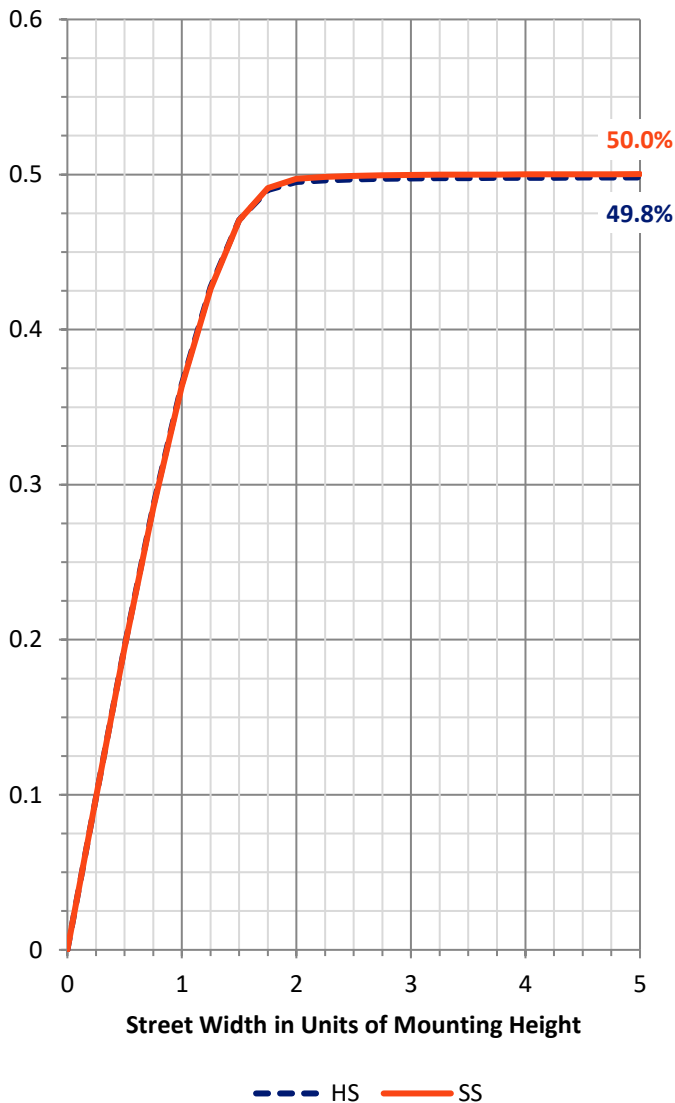
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3445.2 | 0.0 | 3445.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3445.2 | 0.0 | 3445.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 6890.3 | 0.0 | 6890.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 113.5 | 1.6 |
| 10°-20° | 331.3 | 4.8 |
| 20°-30° | 599.9 | 8.7 |
| 30°-40° | 1112.4 | 16.1 |
| 40°-50° | 1826.0 | 26.5 |
| 50°-60° | 2352.4 | 34.1 |
| 60°-70° | 518.4 | 7.5 |
| 70°-80° | 30.1 | 0.4 |
| 80°-90° | 6.3 | 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° | 6890.3 | 100.0 |
| 0°-180° | 6890.3 | 100.0 |

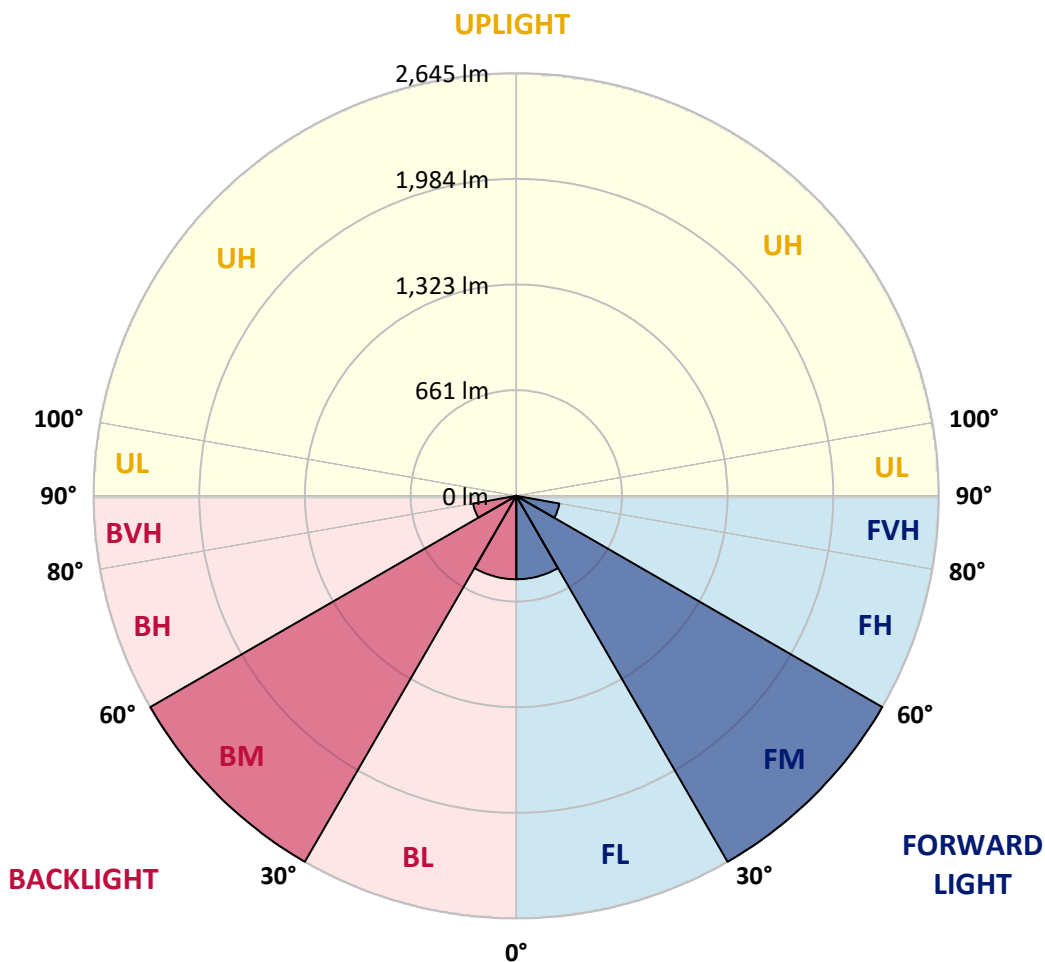


REPORT NUMBER: P651763
 CATALOG NUMBER: GALN-SA3A-840-U-5MQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 522.3 | 7.6 | | | |
| FM (30°-60°) | 2645.4 | 38.4 | | | |
| FH (60°-80°) | 274.3 | 4.0 | | | G0/660 |
| FVH (80°-90°) | 3.2 | 0.0 | | | G0/10 |
| BL (0°-30°) | 522.3 | 7.6 | B2/1000 | | |
| BM (30°-60°) | 2645.4 | 38.4 | B3/5000 | | |
| BH (60°-80°) | 274.3 | 4.0 | B1/500 | | G0/660 |
| BVH (80°-90°) | 3.2 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G0
 Type V Short





REPORT NUMBER: P651763

CATALOG NUMBER: GALN-SA3A-840-U-5MQ-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1207.3 | 1207.3 | 1207.3 | 1207.3 | 1207.3 | 1207.3 | 1207.3 | 1207.3 | 1207.3 | 1207.3 | 1207.3 |
| 2.5° | 1209.9 | 1209.9 | 1211.0 | 1212.3 | 1203.6 | 1199.9 | 1201.1 | 1198.6 | 1197.3 | 1201.1 | 1201.1 |
| 5° | 1206.1 | 1206.1 | 1202.4 | 1203.6 | 1203.6 | 1192.4 | 1192.4 | 1194.8 | 1194.8 | 1187.3 | 1184.9 |
| 7.5° | 1196.1 | 1193.6 | 1188.6 | 1194.8 | 1191.1 | 1191.1 | 1182.4 | 1176.1 | 1173.6 | 1178.6 | 1173.6 |
| 10° | 1174.9 | 1176.1 | 1181.1 | 1183.6 | 1181.1 | 1188.6 | 1173.6 | 1164.9 | 1156.1 | 1152.4 | 1152.4 |
| 12.5° | 1164.9 | 1172.4 | 1164.9 | 1171.1 | 1179.8 | 1173.6 | 1164.9 | 1158.6 | 1146.1 | 1141.2 | 1141.2 |
| 15° | 1163.6 | 1168.7 | 1171.1 | 1179.8 | 1176.1 | 1178.6 | 1161.2 | 1153.7 | 1134.9 | 1126.2 | 1122.4 |
| 17.5° | 1162.3 | 1168.7 | 1172.4 | 1188.6 | 1191.1 | 1192.4 | 1178.6 | 1156.1 | 1139.9 | 1131.1 | 1122.4 |
| 20° | 1176.1 | 1178.6 | 1186.1 | 1202.4 | 1212.3 | 1229.8 | 1204.8 | 1181.1 | 1146.1 | 1136.2 | 1132.4 |
| 22.5° | 1193.6 | 1206.1 | 1213.6 | 1231.1 | 1257.3 | 1272.3 | 1239.8 | 1209.9 | 1173.6 | 1161.2 | 1146.1 |
| 25° | 1249.8 | 1247.3 | 1259.7 | 1296.0 | 1317.2 | 1328.4 | 1302.2 | 1258.6 | 1211.0 | 1196.1 | 1198.6 |
| 27.5° | 1319.7 | 1322.2 | 1333.4 | 1373.4 | 1404.6 | 1422.0 | 1390.8 | 1333.4 | 1287.2 | 1262.3 | 1259.7 |
| 30° | 1410.9 | 1408.3 | 1420.9 | 1474.5 | 1530.7 | 1556.9 | 1502.0 | 1434.6 | 1389.6 | 1357.1 | 1364.6 |
| 32.5° | 1507.0 | 1508.2 | 1543.2 | 1591.8 | 1683.0 | 1734.2 | 1645.6 | 1563.2 | 1495.7 | 1473.3 | 1462.0 |
| 35° | 1649.3 | 1655.6 | 1683.0 | 1757.9 | 1859.0 | 1925.2 | 1827.8 | 1729.2 | 1651.8 | 1610.6 | 1615.6 |
| 37.5° | 1825.4 | 1819.1 | 1865.3 | 1946.5 | 2052.6 | 2101.2 | 2018.9 | 1906.5 | 1827.8 | 1800.4 | 1817.8 |
| 40° | 2012.6 | 2018.9 | 2042.6 | 2116.3 | 2234.9 | 2267.3 | 2145.0 | 2083.8 | 2015.1 | 2001.4 | 2022.6 |
| 42.5° | 2199.9 | 2196.2 | 2213.7 | 2279.8 | 2366.0 | 2343.5 | 2271.1 | 2234.9 | 2186.2 | 2158.7 | 2187.4 |
| 45° | 2337.2 | 2331.0 | 2363.5 | 2408.5 | 2439.7 | 2397.2 | 2364.7 | 2352.3 | 2327.3 | 2297.3 | 2323.5 |
| 47.5° | 2470.9 | 2465.8 | 2497.1 | 2509.5 | 2512.1 | 2455.9 | 2462.1 | 2484.6 | 2422.2 | 2359.8 | 2389.7 |
| 50° | 2584.5 | 2575.7 | 2614.4 | 2641.9 | 2635.7 | 2545.8 | 2568.2 | 2545.8 | 2448.4 | 2374.7 | 2363.5 |
| 52.5° | 2774.2 | 2778.0 | 2819.2 | 2869.2 | 2854.2 | 2779.3 | 2746.8 | 2644.4 | 2519.6 | 2453.4 | 2414.7 |
| 55° | 2894.1 | 2875.4 | 2946.5 | 3105.1 | 3122.5 | 3045.2 | 2901.6 | 2750.5 | 2563.2 | 2482.0 | 2472.1 |
| 56° | 2781.7 | 2805.5 | 2917.8 | 3095.1 | 3185.0 | 3113.8 | 2905.3 | 2724.3 | 2518.3 | 2408.5 | 2400.9 |
| 57.5° | 2495.8 | 2483.3 | 2635.7 | 2877.9 | 3122.5 | 3092.6 | 2803.0 | 2537.0 | 2297.3 | 2173.7 | 2158.7 |
| 60° | 1553.2 | 1589.4 | 1723.0 | 2022.6 | 2349.8 | 2364.7 | 2077.5 | 1849.1 | 1569.4 | 1459.6 | 1485.8 |
| 62.5° | 608.0 | 576.8 | 660.4 | 884.0 | 1108.7 | 1158.6 | 1050.0 | 872.7 | 716.6 | 608.0 | 600.6 |
| 65° | 141.1 | 137.3 | 154.8 | 213.5 | 298.4 | 345.8 | 328.3 | 236.0 | 173.6 | 164.8 | 152.3 |
| 67.5° | 79.9 | 79.9 | 76.2 | 76.2 | 83.7 | 88.6 | 84.9 | 83.7 | 87.4 | 91.2 | 89.9 |
| 70° | 56.2 | 54.9 | 52.5 | 53.7 | 51.2 | 51.2 | 54.9 | 61.1 | 66.2 | 66.2 | 67.4 |
| 72.5° | 33.7 | 33.7 | 33.7 | 37.4 | 37.4 | 37.4 | 41.2 | 46.2 | 47.4 | 46.2 | 44.9 |
| 75° | 15.0 | 15.0 | 17.5 | 21.2 | 23.7 | 25.0 | 28.7 | 31.2 | 33.7 | 31.2 | 28.7 |
| 77.5° | 3.8 | 3.8 | 6.2 | 8.7 | 11.3 | 13.7 | 18.8 | 22.5 | 23.7 | 22.5 | 18.8 |
| 80° | 1.3 | 1.3 | 2.5 | 6.2 | 11.3 | 13.7 | 18.8 | 20.0 | 21.2 | 18.8 | 15.0 |
| 82.5° | 1.3 | 1.3 | 2.5 | 6.2 | 8.7 | 11.3 | 15.0 | 17.5 | 18.8 | 16.2 | 15.0 |
| 85° | 0.0 | 1.3 | 2.5 | 5.0 | 7.5 | 10.0 | 10.0 | 7.5 | 6.2 | 3.8 | 5.0 |
| 87.5° | 0.0 | 0.0 | 1.3 | 1.3 | 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)