

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: P319028

Luminaire Tested: **GAN-SA4A-740-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18668 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

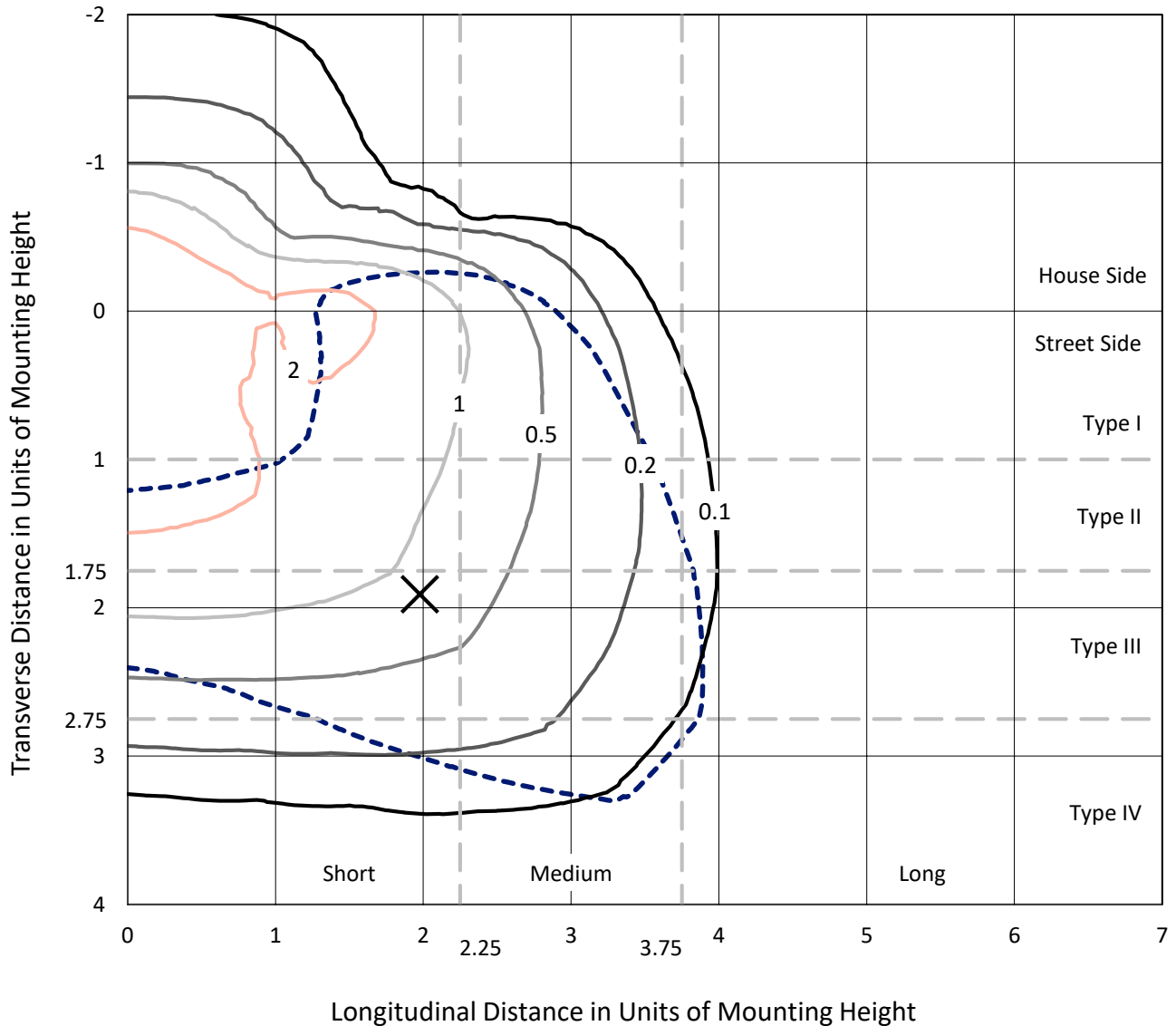
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319028
 CATALOG NUMBER: GAN-SA4A-740-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

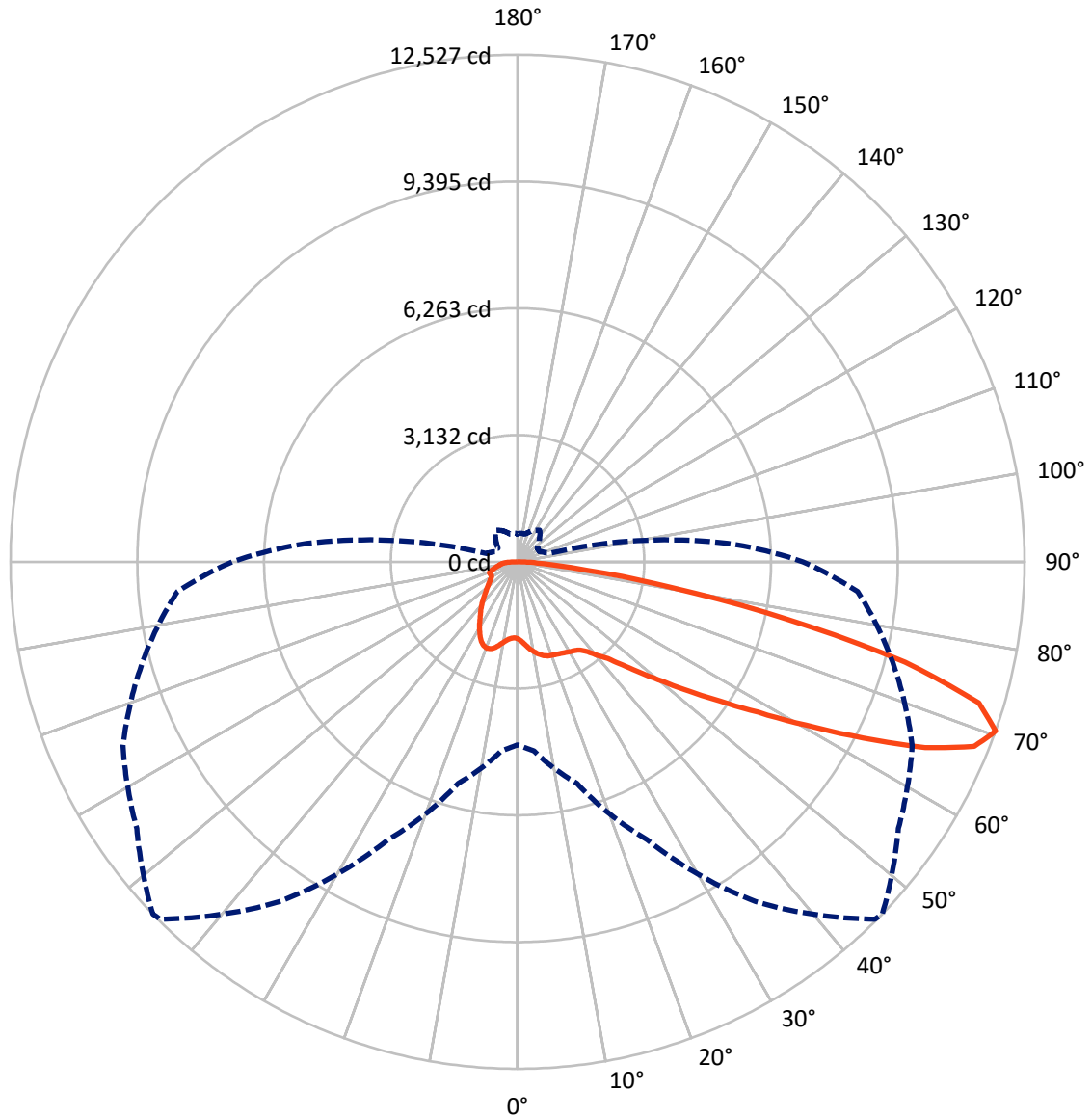
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P319028
CATALOG NUMBER: GAN-SA4A-740-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P319028
 CATALOG NUMBER: GAN-SA4A-740-U-T4W

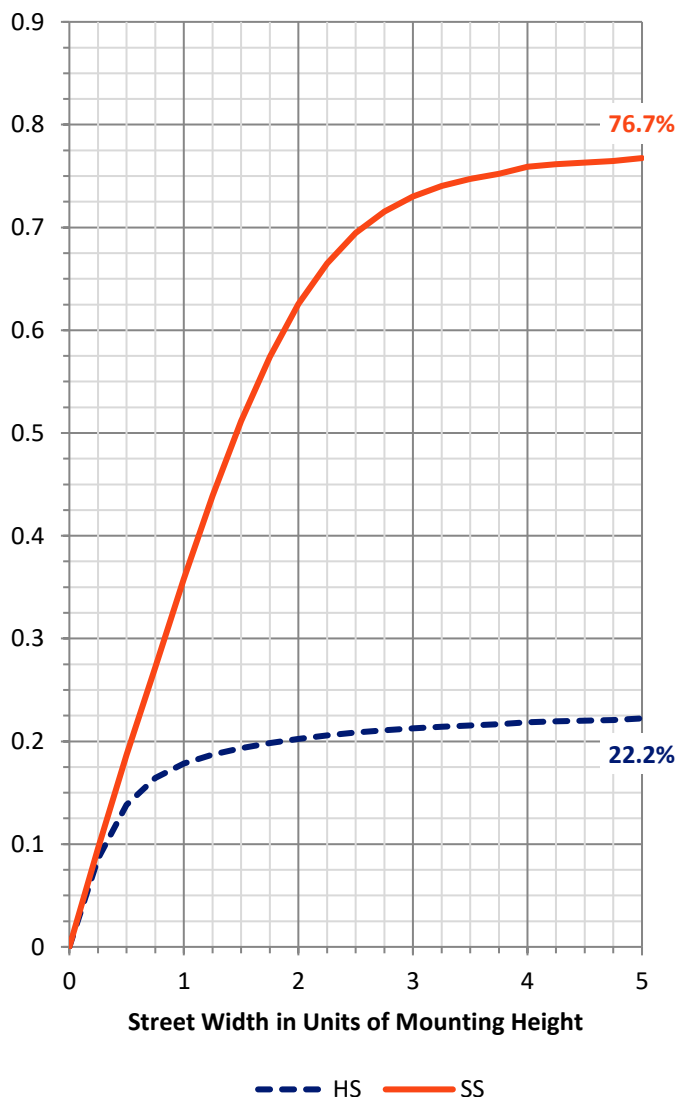
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4278.6	0.0	4278.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	14389.4	0.0	14389.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	18668.0	0.0	18668.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.9	1.0
10°-20°	646.0	3.5
20°-30°	1077.1	5.8
30°-40°	1528.4	8.2
40°-50°	2248.2	12.0
50°-60°	3807.4	20.4
60°-70°	5404.5	29.0
70°-80°	3283.3	17.6
80°-90°	479.2	2.6
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°	18668.0	100.0
0°-180°	18668.0	100.0

Coefficient of Utilization



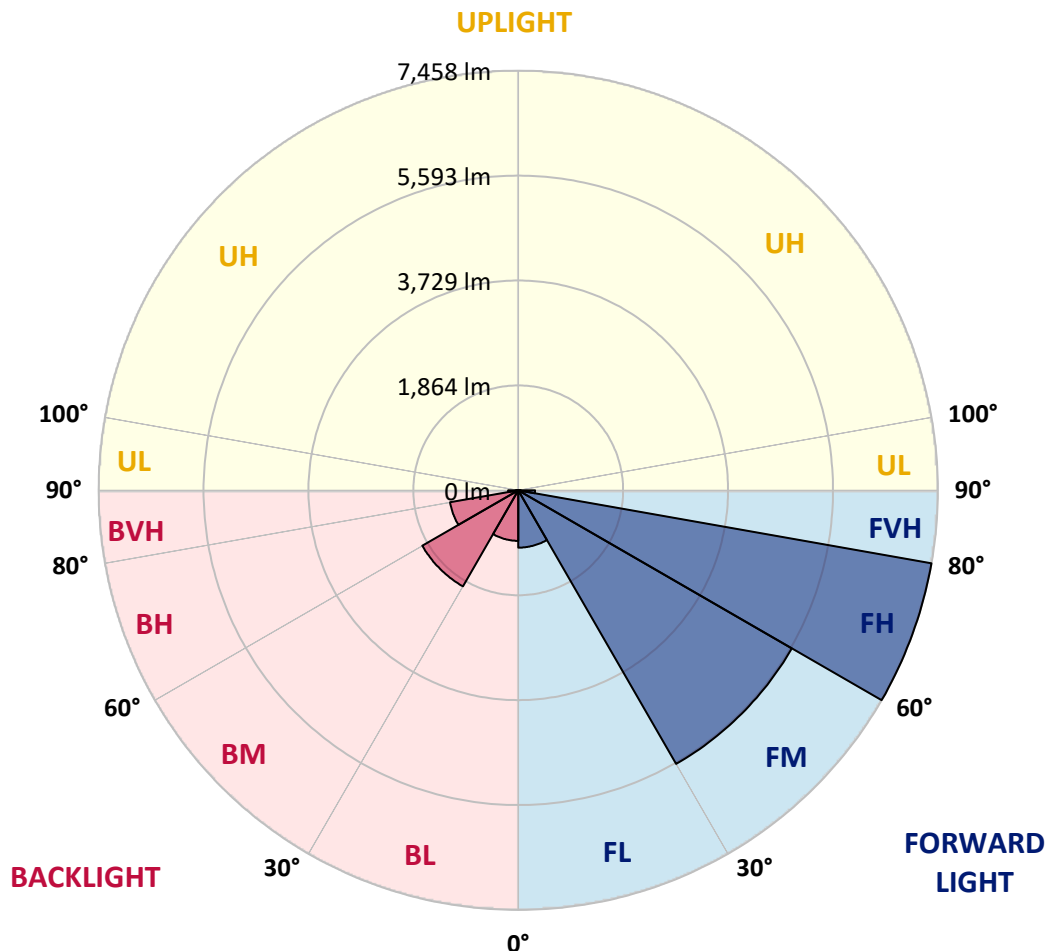
REPORT NUMBER: P319028
 CATALOG NUMBER: GAN-SA4A-740-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1018.6	5.5			
FM (30°-60°)	5614.5	30.1			
FH (60°-80°)	7457.8	39.9			G3/7500
FVH (80°-90°)	298.5	1.6			G3/500
BL (0°-30°)	898.3	4.8	B2/1000		
BM (30°-60°)	1969.6	10.6	B2/2500		
BH (60°-80°)	1230.1	6.6	B3/2500		G3/2500
BVH (80°-90°)	180.7	1.0			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





REPORT NUMBER: P319028

CATALOG NUMBER: GAN-SA4A-740-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1901.9	1901.9	1901.9	1901.9	1901.9	1901.9	1901.9	1901.9	1901.9	1901.9	1901.9
2.5°	1997.1	1998.4	2000.9	1994.5	1976.7	1971.5	1969.6	1951.1	1939.0	1921.1	1905.7
5°	2156.8	2158.1	2154.3	2136.4	2096.8	2067.4	2064.8	2022.6	1984.3	1943.4	1912.8
7.5°	2323.6	2325.5	2313.3	2279.5	2223.9	2172.8	2169.6	2112.1	2054.0	1992.0	1946.0
10°	2471.1	2463.5	2443.7	2396.4	2330.6	2268.0	2265.4	2205.4	2138.3	2063.5	2002.2
12.5°	2569.5	2563.1	2537.6	2480.1	2407.9	2350.4	2345.3	2289.7	2224.5	2142.8	2069.3
15°	2623.8	2628.3	2593.8	2528.6	2458.4	2409.8	2405.3	2365.7	2307.6	2225.2	2140.8
17.5°	2630.8	2634.7	2601.5	2536.9	2479.4	2446.2	2444.3	2418.1	2375.9	2296.7	2208.6
20°	2590.0	2592.5	2565.0	2512.0	2474.3	2464.1	2463.5	2452.0	2420.7	2350.4	2264.8
22.5°	2530.5	2532.5	2512.7	2474.3	2461.6	2477.5	2482.0	2477.5	2455.2	2389.4	2308.9
25°	2515.9	2514.6	2494.1	2455.2	2466.0	2499.9	2505.6	2507.5	2492.2	2434.7	2365.1
27.5°	2586.8	2582.3	2543.3	2480.7	2487.7	2528.6	2536.3	2554.8	2545.2	2494.8	2429.0
30°	2791.8	2784.2	2704.3	2577.8	2543.3	2564.4	2574.0	2603.4	2605.3	2563.1	2513.9
32.5°	3138.1	3128.5	2985.4	2759.3	2637.2	2600.8	2609.8	2653.8	2677.5	2644.9	2591.9
35°	3575.7	3564.9	3377.0	3067.8	2794.4	2670.5	2676.8	2712.0	2759.3	2713.3	2643.0
37.5°	4031.9	4005.7	3824.9	3430.7	3044.2	2819.3	2819.3	2823.8	2846.1	2750.3	2703.0
40°	4485.5	4459.3	4295.7	3857.5	3367.5	3053.8	3039.1	2940.1	2922.2	2839.8	2823.8
42.5°	4907.1	4899.5	4803.0	4339.8	3746.9	3284.4	3264.0	3095.9	3099.8	3048.7	3049.3
45°	5355.6	5355.6	5277.0	4826.6	4189.0	3655.0	3634.5	3387.3	3425.6	3402.0	3458.8
47.5°	5721.7	5733.2	5722.3	5333.9	4703.3	4125.8	4088.7	3791.0	3898.4	3979.5	4145.0
50°	6095.4	6113.3	6115.2	5890.3	5324.9	4685.4	4643.3	4327.0	4566.6	4799.2	5124.3
52.5°	6637.8	6678.1	6517.7	6445.5	6086.5	5349.9	5308.3	5016.4	5416.3	5742.8	6303.1
55°	7140.6	7105.5	6991.1	7035.8	6901.7	6106.3	6075.0	5818.8	6363.1	6787.3	7515.0
57.5°	7412.8	7410.2	7525.2	7716.9	7780.7	7039.0	7012.8	6763.7	7430.6	7749.4	8652.8
60°	7732.2	7736.7	8021.6	8456.7	8719.9	8200.5	8189.0	7999.9	8467.5	8647.7	9545.3
62.5°	7776.9	7857.4	8348.1	9096.8	9599.0	9557.4	9583.0	9113.4	9395.2	9364.5	10211.6
65°	7262.6	7368.7	8256.7	9290.4	10472.9	11041.5	11065.2	10233.4	10126.7	9977.2	10449.9
67.5°	6208.5	6365.7	7330.3	8869.4	10761.1	12138.5	12171.7	11101.6	10733.6	10184.8	9876.2
70°	4518.1	4692.5	5663.5	7575.0	10247.4	12489.2	12526.9	11485.5	10756.6	9593.8	8431.1
72.5°	2729.2	2866.0	3666.5	5576.7	8649.0	11850.3	11917.4	10998.7	9820.6	8126.4	6225.7
75°	1198.5	1288.0	1772.9	3213.5	6191.9	9804.7	9888.4	9414.3	7979.4	5905.7	3679.9
77.5°	510.5	536.0	727.0	1395.9	3500.3	6699.8	6814.8	6878.7	5413.7	3213.5	1555.0
80°	318.2	328.4	411.4	631.8	1638.1	3762.9	3886.9	4047.2	2688.3	1181.3	543.0
82.5°	193.6	205.1	273.4	382.0	852.9	1705.8	1765.2	1878.3	1043.3	510.5	281.1
85°	116.3	124.6	167.4	241.5	485.5	670.8	670.2	741.1	491.3	328.4	148.2
87.5°	55.6	62.0	89.4	125.2	244.7	251.7	235.7	267.0	298.4	215.3	74.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P319028
 CATALOG NUMBER: GAN-SA4A-740-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1901.9	1901.9	1901.9	1901.9	1901.9	1901.9	1901.9	1901.9	1901.9	1901.9	1901.9
2.5°	1900.6	1898.1	1889.8	1883.4	1882.1	1878.3	1875.1	1877.0	1879.5	1880.2	1880.2
5°	1900.0	1893.0	1882.1	1877.6	1883.4	1891.0	1900.6	1913.4	1921.1	1926.8	1930.7
7.5°	1930.7	1917.2	1905.1	1902.5	1914.0	1934.5	1956.2	1983.0	2001.6	2014.3	2016.9
10°	1981.8	1965.2	1953.0	1955.6	1976.0	2005.4	2036.1	2070.6	2098.7	2115.9	2117.2
12.5°	2040.5	2024.6	2013.1	2023.9	2057.8	2093.6	2125.5	2155.5	2181.1	2198.3	2198.3
15°	2108.3	2096.8	2083.3	2108.3	2154.3	2186.2	2199.6	2214.3	2228.4	2241.1	2238.6
17.5°	2173.4	2162.6	2155.5	2184.9	2232.8	2247.5	2238.6	2227.7	2227.7	2234.8	2236.0
20°	2229.6	2220.1	2224.5	2253.3	2278.2	2262.9	2229.6	2195.1	2181.1	2184.9	2188.8
22.5°	2278.8	2274.4	2287.8	2301.2	2283.3	2229.6	2168.3	2121.7	2104.4	2103.1	2104.4
25°	2336.3	2335.7	2352.3	2328.0	2248.8	2149.8	2067.4	2022.0	2012.4	2020.1	2032.9
27.5°	2407.9	2414.9	2423.2	2334.4	2178.5	2029.0	1945.3	1914.0	1923.6	1942.2	1954.3
30°	2499.2	2518.4	2500.5	2318.4	2077.6	1891.0	1811.2	1802.2	1828.4	1854.6	1867.4
32.5°	2588.0	2618.1	2574.6	2276.9	1947.3	1744.7	1682.8	1680.2	1712.2	1737.7	1755.6
35°	2659.6	2719.0	2630.2	2194.5	1796.5	1609.9	1564.6	1547.3	1558.8	1588.9	1609.3
37.5°	2752.9	2851.9	2668.5	2068.6	1632.9	1498.8	1445.8	1406.1	1395.9	1408.1	1418.3
40°	2923.5	3054.4	2686.4	1893.0	1473.2	1387.6	1334.0	1275.8	1235.6	1206.2	1206.8
42.5°	3202.0	3318.3	2674.9	1679.6	1325.6	1279.0	1218.3	1151.2	1086.1	1019.6	1014.5
45°	3654.3	3710.5	2640.4	1453.4	1196.0	1165.3	1108.4	1041.4	954.5	879.1	872.1
47.5°	4378.1	4253.6	2586.8	1256.0	1081.6	1068.8	1016.4	939.1	847.1	786.4	781.3
50°	5365.2	5037.5	2560.6	1098.8	980.7	984.5	941.7	859.9	773.0	728.3	723.2
52.5°	6545.8	5950.4	2611.0	977.5	899.5	912.9	881.0	804.3	731.5	696.4	691.3
55°	7770.5	6895.9	2665.3	889.3	822.9	849.1	838.2	774.9	709.1	676.6	672.1
57.5°	8818.9	7601.9	2556.7	817.7	754.5	795.4	805.0	756.4	697.6	668.3	663.1
60°	9478.9	7886.2	2271.8	750.7	700.2	752.6	785.8	751.3	702.1	699.6	695.7
62.5°	9791.9	7861.2	1844.4	697.6	666.3	734.1	799.9	780.1	753.2	776.2	778.1
65°	9651.3	7485.6	1373.6	662.5	642.1	741.1	842.0	834.4	767.9	790.9	794.1
67.5°	8726.3	6589.3	1017.1	631.8	615.2	760.9	918.7	852.2	739.2	755.8	745.6
70°	7053.1	5224.0	784.5	597.3	587.8	758.3	953.2	841.4	707.9	711.7	684.2
72.5°	4863.7	3562.3	638.2	565.4	548.1	691.3	928.9	814.6	681.7	652.3	615.9
75°	2644.9	1912.1	542.4	532.2	478.5	606.9	884.2	795.4	658.0	619.1	598.6
77.5°	1040.7	793.5	470.8	486.8	418.5	536.0	834.4	759.0	625.4	574.3	564.1
80°	424.8	405.0	390.3	421.0	359.7	468.9	774.3	716.2	586.5	532.8	512.4
82.5°	240.9	251.7	303.5	332.2	292.0	431.9	745.6	681.7	539.8	477.2	453.0
85°	123.3	147.6	211.5	238.3	214.7	367.3	686.8	596.7	433.2	365.4	367.3
87.5°	59.4	82.4	133.5	149.5	139.3	265.8	513.0	432.5	337.3	267.0	258.7
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)