

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: P319037

Luminaire Tested: **GAN-SA3B-740-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319037
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-SA3B-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17324 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

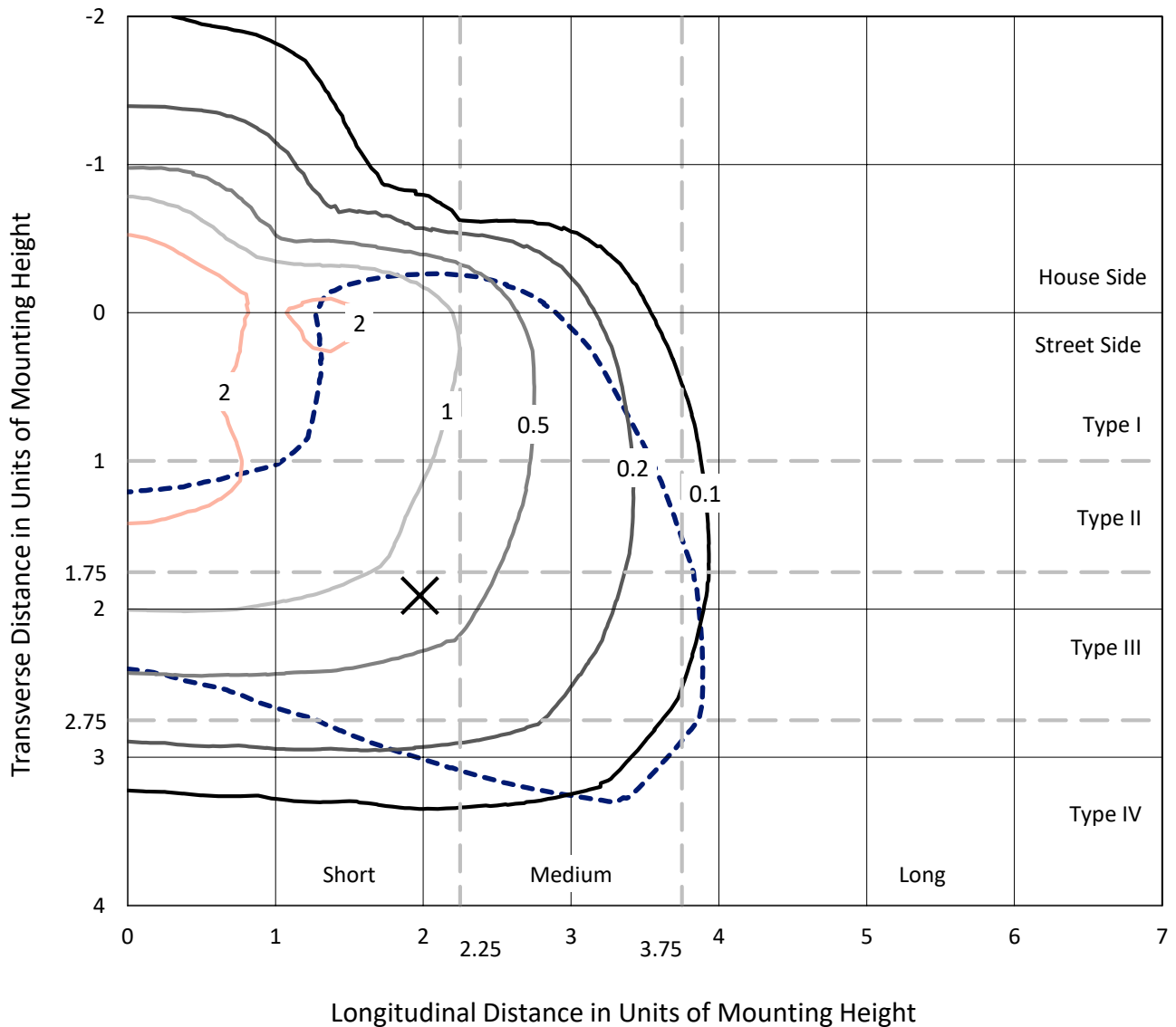
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

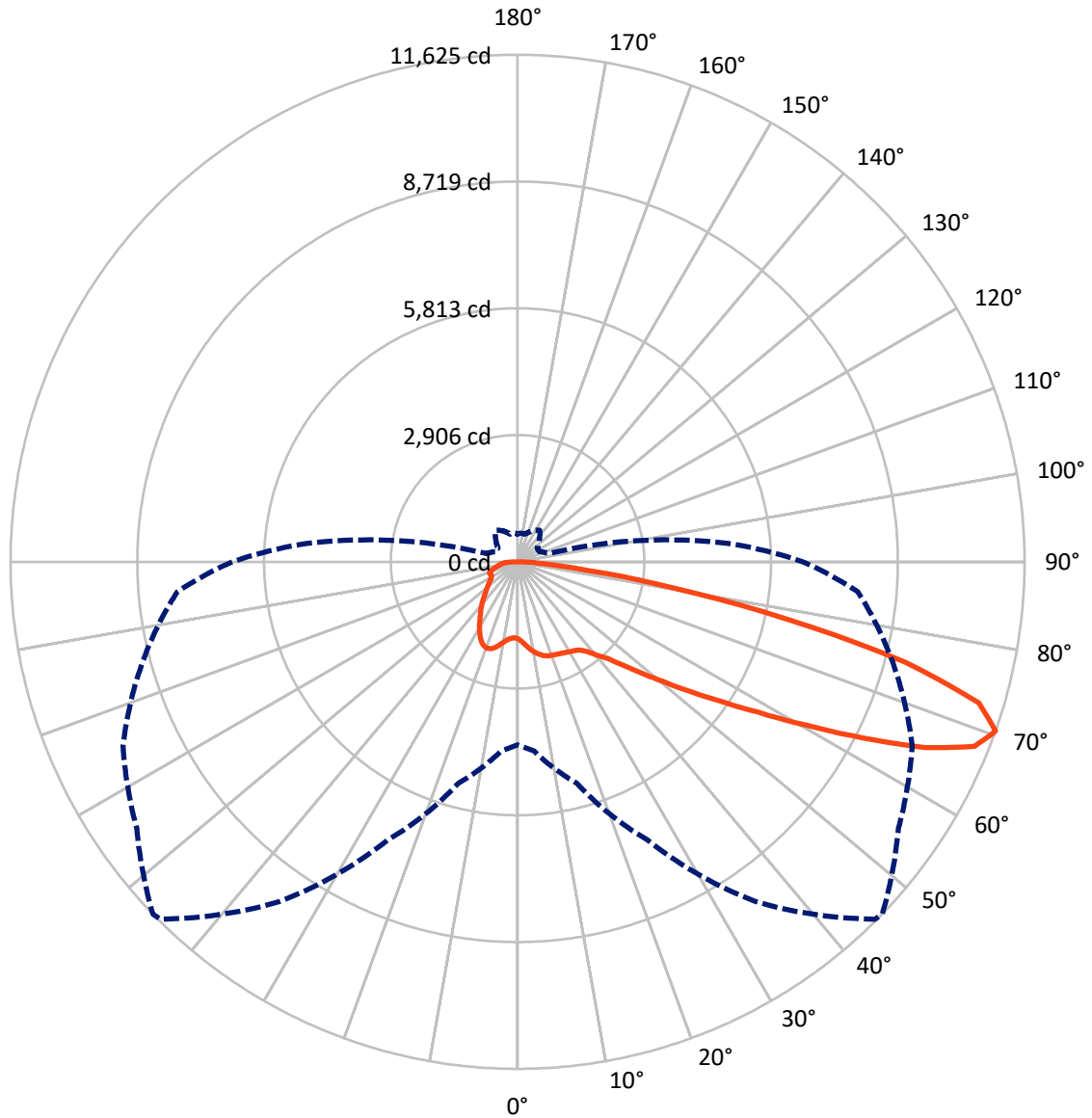
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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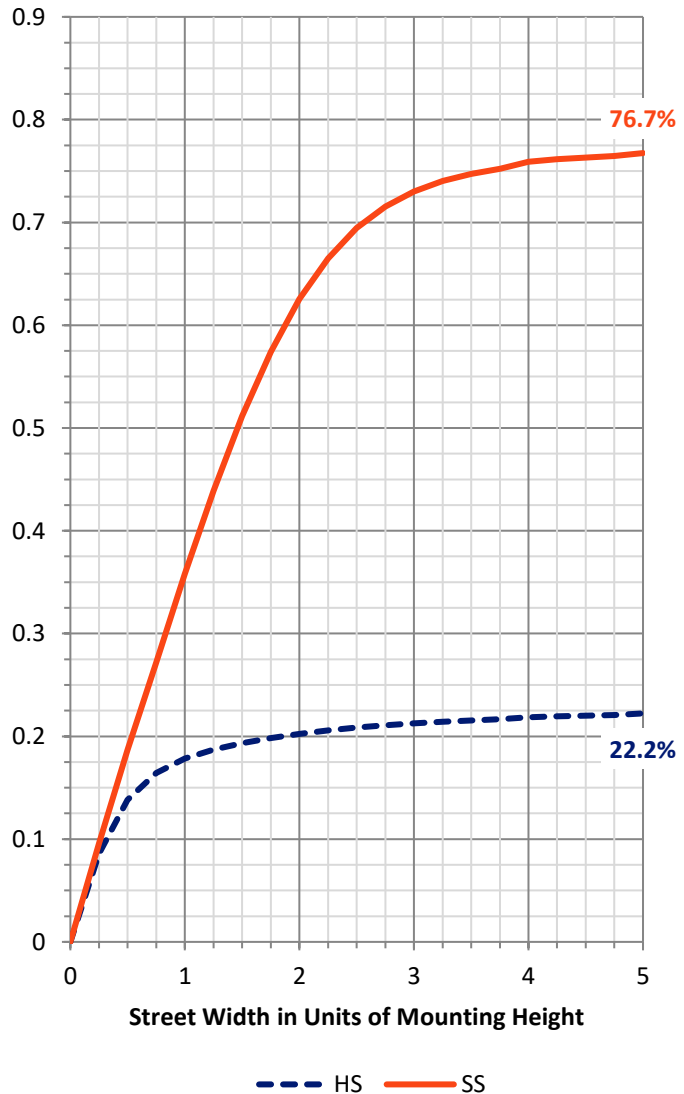
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3970.6	0.0	3970.6
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	13353.4	0.0	13353.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	17324.0	0.0	17324.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.9	1.0
10°-20°	599.5	3.5
20°-30°	999.5	5.8
30°-40°	1418.4	8.2
40°-50°	2086.4	12.0
50°-60°	3533.3	20.4
60°-70°	5015.4	29.0
70°-80°	3046.9	17.6
80°-90°	444.7	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°	17324.0	100.0
0°-180°	17324.0	100.0

Coefficient of Utilization



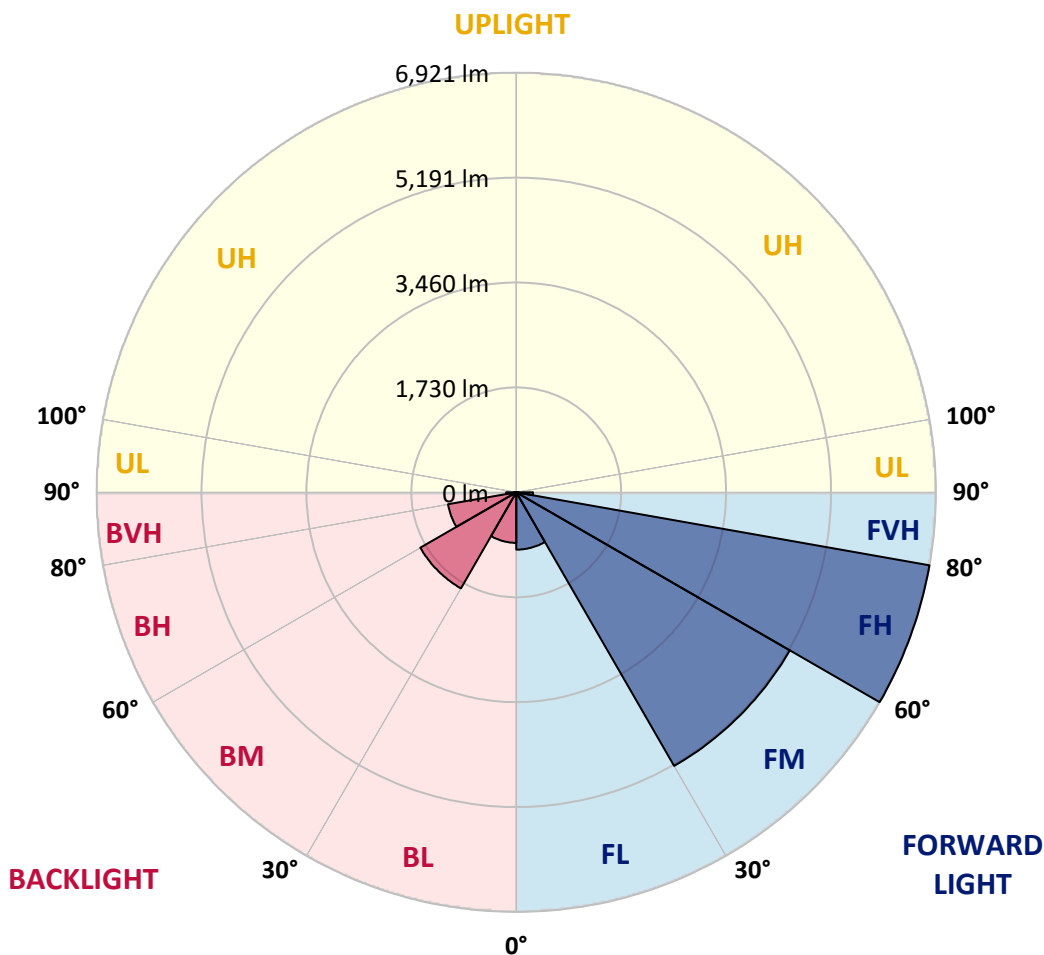
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	945.3	5.5			
FM (30°-60°)	5210.3	30.1			
FH (60°-80°)	6920.8	39.9			G3/7500
FVH (80°-90°)	277.0	1.6			G3/500
BL (0°-30°)	833.6	4.8	B2/1000		
BM (30°-60°)	1827.8	10.6	B2/2500		
BH (60°-80°)	1141.5	6.6	B3/2500		G3/2500
BVH (80°-90°)	167.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1765.0	1765.0	1765.0	1765.0	1765.0	1765.0	1765.0	1765.0	1765.0	1765.0	1765.0
2.5°	1853.3	1854.5	1856.9	1850.9	1834.3	1829.6	1827.8	1810.6	1799.4	1782.8	1768.5
5°	2001.5	2002.7	1999.2	1982.6	1945.8	1918.5	1916.2	1877.0	1841.5	1803.5	1775.1
7.5°	2156.3	2158.0	2146.8	2115.4	2063.8	2016.4	2013.4	1960.0	1906.1	1848.6	1805.9
10°	2293.2	2286.1	2267.7	2223.9	2162.8	2104.7	2102.3	2046.6	1984.3	1915.0	1858.1
12.5°	2384.5	2378.6	2354.9	2301.5	2234.5	2181.2	2176.4	2124.8	2064.4	1988.5	1920.3
15°	2434.9	2439.1	2407.1	2346.6	2281.4	2236.3	2232.2	2195.4	2141.4	2065.0	1986.7
17.5°	2441.4	2445.0	2414.2	2354.3	2300.9	2270.1	2268.3	2244.0	2204.9	2131.4	2049.6
20°	2403.5	2405.9	2380.4	2331.2	2296.2	2286.7	2286.1	2275.4	2246.4	2181.2	2101.7
22.5°	2348.4	2350.1	2331.8	2296.2	2284.3	2299.2	2303.3	2299.2	2278.4	2217.3	2142.6
25°	2334.7	2333.5	2314.6	2278.4	2288.5	2319.9	2325.2	2327.0	2312.8	2259.4	2194.8
27.5°	2400.5	2396.4	2360.2	2302.1	2308.6	2346.6	2353.7	2370.9	2362.0	2315.2	2254.1
30°	2590.8	2583.7	2509.6	2392.2	2360.2	2379.8	2388.7	2415.9	2417.7	2378.6	2332.9
32.5°	2912.2	2903.3	2770.5	2560.6	2447.4	2413.6	2421.9	2462.8	2484.7	2454.5	2405.3
35°	3318.3	3308.2	3133.9	2847.0	2593.2	2478.2	2484.1	2516.7	2560.6	2517.9	2452.7
37.5°	3741.6	3717.3	3549.5	3183.7	2825.0	2616.3	2616.3	2620.5	2641.2	2552.3	2508.4
40°	4162.5	4138.2	3986.5	3579.8	3125.0	2833.9	2820.3	2728.4	2711.8	2635.3	2620.5
42.5°	4553.8	4546.7	4457.2	4027.4	3477.2	3047.9	3029.0	2873.1	2876.6	2829.2	2829.8
45°	4970.0	4970.0	4897.1	4479.1	3887.5	3391.8	3372.8	3143.4	3179.0	3157.0	3209.8
47.5°	5309.8	5320.4	5310.3	4949.9	4364.7	3828.8	3794.4	3518.1	3617.7	3693.0	3846.5
50°	5656.6	5673.2	5675.0	5466.3	4941.6	4348.1	4309.0	4015.5	4237.8	4453.6	4755.4
52.5°	6159.9	6197.3	6048.5	5981.5	5648.3	4964.7	4926.2	4655.2	5026.4	5329.3	5849.3
55°	6626.5	6593.9	6487.8	6529.3	6404.8	5666.7	5637.6	5399.9	5905.0	6298.7	6973.9
57.5°	6879.1	6876.7	6983.4	7161.3	7220.6	6532.3	6507.9	6276.7	6895.7	7191.5	8029.8
60°	7175.5	7179.7	7444.1	7847.8	8092.1	7610.1	7599.4	7423.9	7857.9	8025.1	8858.1
62.5°	7217.0	7291.7	7747.0	8441.9	8907.9	8869.3	8893.1	8457.3	8718.8	8690.3	9476.4
65°	6739.8	6838.2	7662.3	8621.5	9718.9	10246.6	10268.5	9496.6	9397.6	9258.9	9697.6
67.5°	5761.5	5907.4	6802.6	8230.8	9986.3	11264.5	11295.4	10302.3	9960.8	9451.5	9165.2
70°	4192.8	4354.6	5255.8	7029.7	9509.6	11590.0	11625.0	10658.6	9982.2	8903.1	7824.1
72.5°	2532.7	2659.6	3402.5	5175.2	8026.3	10997.2	11059.4	10206.9	9113.6	7541.3	5777.5
75°	1112.2	1195.2	1645.2	2982.1	5746.1	9098.8	9176.5	8736.5	7405.0	5480.5	3414.9
77.5°	473.7	497.4	674.7	1295.4	3248.3	6217.4	6324.2	6383.4	5024.0	2982.1	1443.0
80°	295.2	304.7	381.8	586.3	1520.1	3492.0	3607.0	3755.8	2494.8	1096.2	503.9
82.5°	179.6	190.3	253.7	354.5	791.5	1583.0	1638.1	1743.0	968.2	473.7	260.9
85°	107.9	115.6	155.3	224.1	450.6	622.5	621.9	687.7	455.9	304.7	137.5
87.5°	51.6	57.5	83.0	116.2	227.1	233.6	218.8	247.8	276.9	199.8	69.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1765.0	1765.0	1765.0	1765.0	1765.0	1765.0	1765.0	1765.0	1765.0	1765.0	1765.0
2.5°	1763.8	1761.4	1753.7	1747.8	1746.6	1743.0	1740.1	1741.9	1744.2	1744.8	1744.8
5°	1763.2	1756.7	1746.6	1742.4	1747.8	1754.9	1763.8	1775.6	1782.8	1788.1	1791.7
7.5°	1791.7	1779.2	1767.9	1765.6	1776.2	1795.2	1815.4	1840.3	1857.5	1869.3	1871.7
10°	1839.1	1823.7	1812.4	1814.8	1833.7	1861.0	1889.5	1921.5	1947.6	1963.6	1964.8
12.5°	1893.6	1878.8	1868.1	1878.2	1909.6	1942.8	1972.5	2000.3	2024.1	2040.1	2040.1
15°	1956.5	1945.8	1933.4	1956.5	1999.2	2028.8	2041.3	2054.9	2067.9	2079.8	2077.4
17.5°	2016.9	2006.9	2000.3	2027.6	2072.1	2085.7	2077.4	2067.3	2067.3	2073.9	2075.0
20°	2069.1	2060.2	2064.4	2091.1	2114.2	2099.9	2069.1	2037.1	2024.1	2027.6	2031.2
22.5°	2114.8	2110.6	2123.1	2135.5	2118.9	2069.1	2012.2	1968.9	1952.9	1951.7	1952.9
25°	2168.1	2167.5	2183.0	2160.4	2086.9	1995.0	1918.5	1876.4	1867.5	1874.7	1886.5
27.5°	2234.5	2241.1	2248.8	2166.4	2021.7	1883.0	1805.3	1776.2	1785.1	1802.3	1813.6
30°	2319.3	2337.1	2320.5	2151.5	1928.0	1754.9	1680.8	1672.5	1696.8	1721.1	1733.0
32.5°	2401.7	2429.6	2389.3	2113.0	1807.1	1619.1	1561.6	1559.3	1588.9	1612.6	1629.2
35°	2468.1	2523.3	2440.8	2036.5	1667.2	1494.0	1451.9	1435.9	1446.6	1474.5	1493.4
37.5°	2554.7	2646.6	2476.4	1919.7	1515.4	1390.9	1341.7	1304.9	1295.4	1306.7	1316.2
40°	2713.0	2834.5	2493.0	1756.7	1367.2	1287.7	1237.9	1184.0	1146.6	1119.3	1119.9
42.5°	2971.5	3079.4	2482.4	1558.7	1230.2	1186.9	1130.6	1068.4	1007.9	946.2	941.5
45°	3391.2	3443.4	2450.3	1348.8	1109.9	1081.4	1028.6	966.4	885.7	815.8	809.3
47.5°	4062.9	3947.3	2400.5	1165.6	1003.7	991.9	943.3	871.5	786.1	729.8	725.1
50°	4978.9	4674.8	2376.2	1019.7	910.1	913.6	873.9	798.0	717.4	675.9	671.1
52.5°	6074.6	5522.0	2423.1	907.1	834.8	847.2	817.6	746.4	678.8	646.2	641.5
55°	7211.1	6399.4	2473.5	825.3	763.6	787.9	777.8	719.2	658.1	627.9	623.7
57.5°	8184.0	7054.6	2372.7	758.9	700.2	738.1	747.0	702.0	647.4	620.1	615.4
60°	8796.4	7318.4	2108.2	696.6	649.8	698.4	729.2	697.2	651.6	649.2	645.6
62.5°	9086.9	7295.3	1711.6	647.4	618.4	681.2	742.3	723.9	699.0	720.3	722.1
65°	8956.5	6946.7	1274.7	614.8	595.8	687.7	781.4	774.3	712.6	734.0	736.9
67.5°	8098.0	6114.9	943.9	586.3	570.9	706.1	852.5	790.9	686.0	701.4	691.9
70°	6545.3	4847.9	728.0	554.3	545.4	703.7	884.6	780.8	656.9	660.5	635.0
72.5°	4513.5	3305.8	592.3	524.7	508.7	641.5	862.0	755.9	632.6	605.3	571.5
75°	2454.5	1774.5	503.3	493.9	444.1	563.2	820.5	738.1	610.7	574.5	555.5
77.5°	965.8	736.3	436.9	451.8	388.3	497.4	774.3	704.3	580.4	533.0	523.5
80°	394.3	375.9	362.2	390.7	333.8	435.2	718.6	664.6	544.3	494.5	475.5
82.5°	223.5	233.6	281.6	308.3	270.9	400.8	691.9	632.6	501.0	442.9	420.3
85°	114.4	137.0	196.2	221.1	199.2	340.9	637.3	553.7	402.0	339.1	340.9
87.5°	55.1	76.5	123.9	138.7	129.2	246.6	476.1	401.4	313.0	247.8	240.1
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)