

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: P522758

Luminaire Tested: **GALN-SA5A-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 19167 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

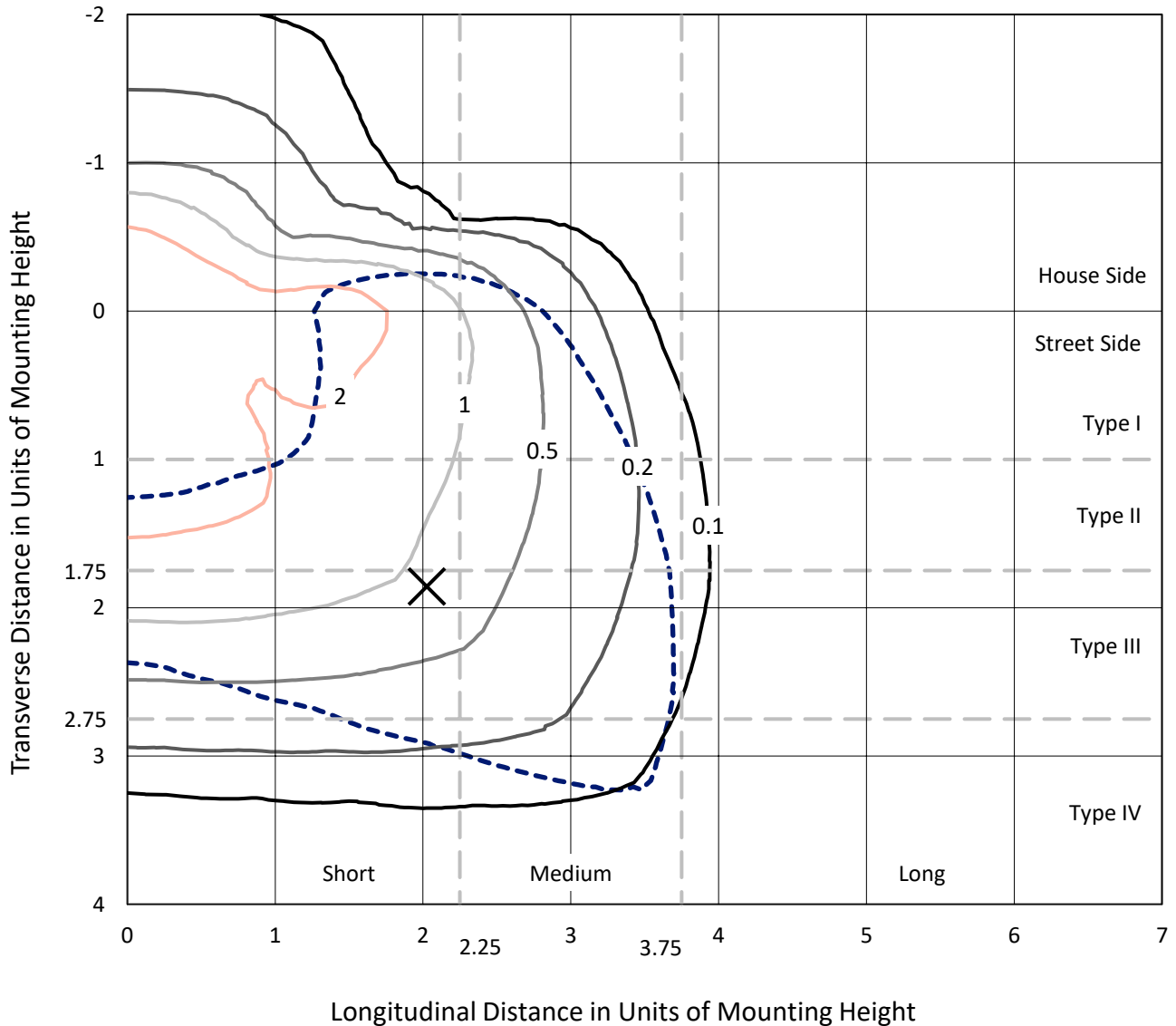
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

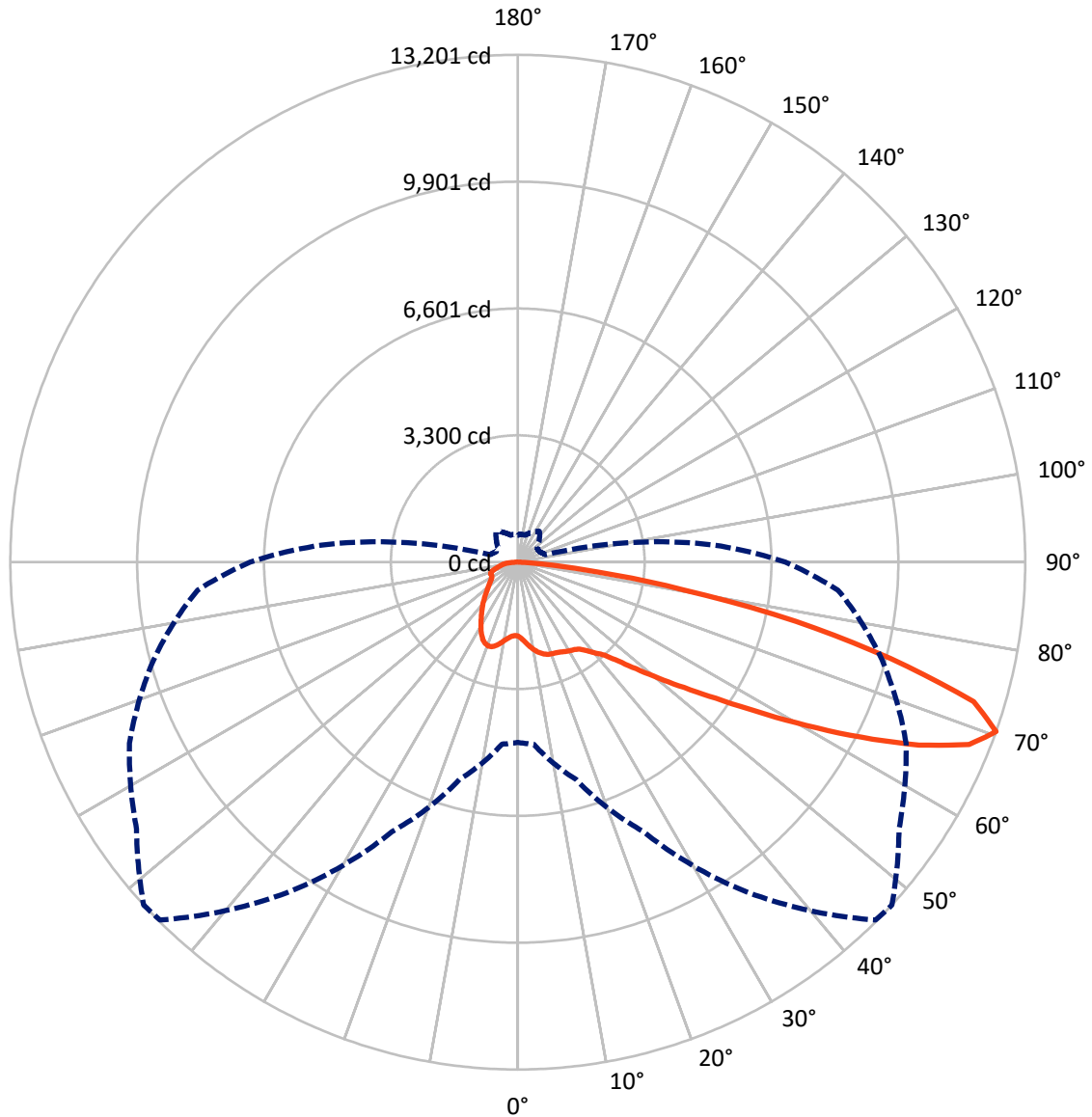
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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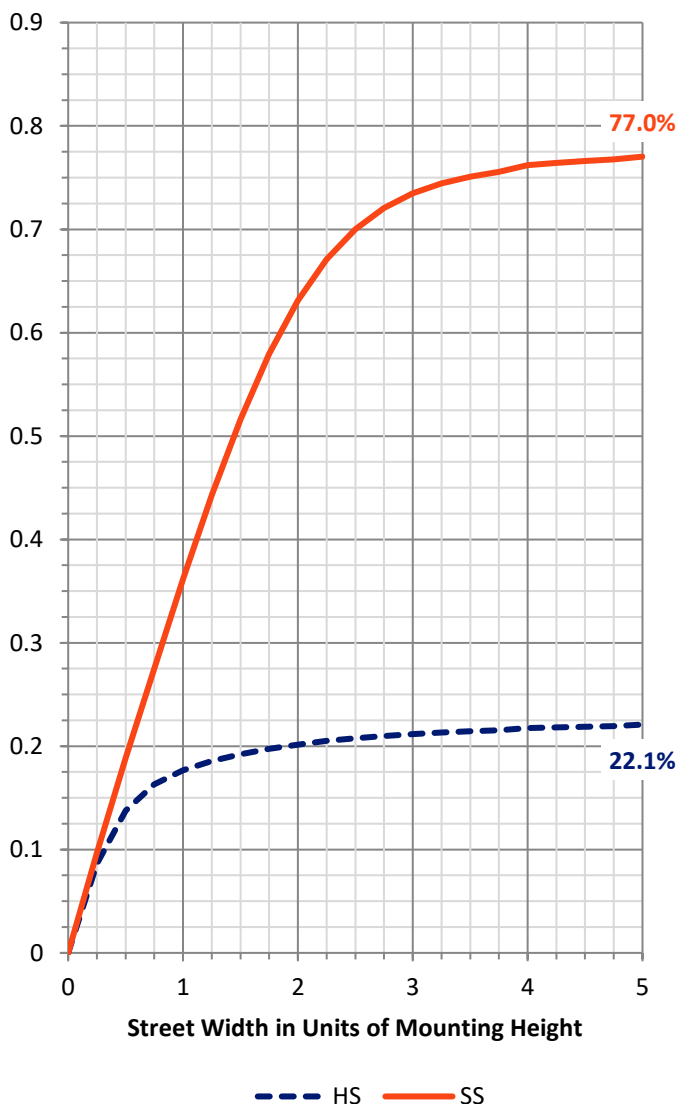
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4339.8	0.0	4339.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	14827.2	0.0	14827.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	19167.0	0.0	19167.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.3	1.0
10°-20°	663.1	3.5
20°-30°	1102.7	5.8
30°-40°	1562.9	8.2
40°-50°	2307.1	12.0
50°-60°	3996.0	20.8
60°-70°	5644.5	29.4
70°-80°	3244.8	16.9
80°-90°	447.7	2.3
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°	19167.0	100.0
0°-180°	19167.0	100.0

Coefficient of Utilization



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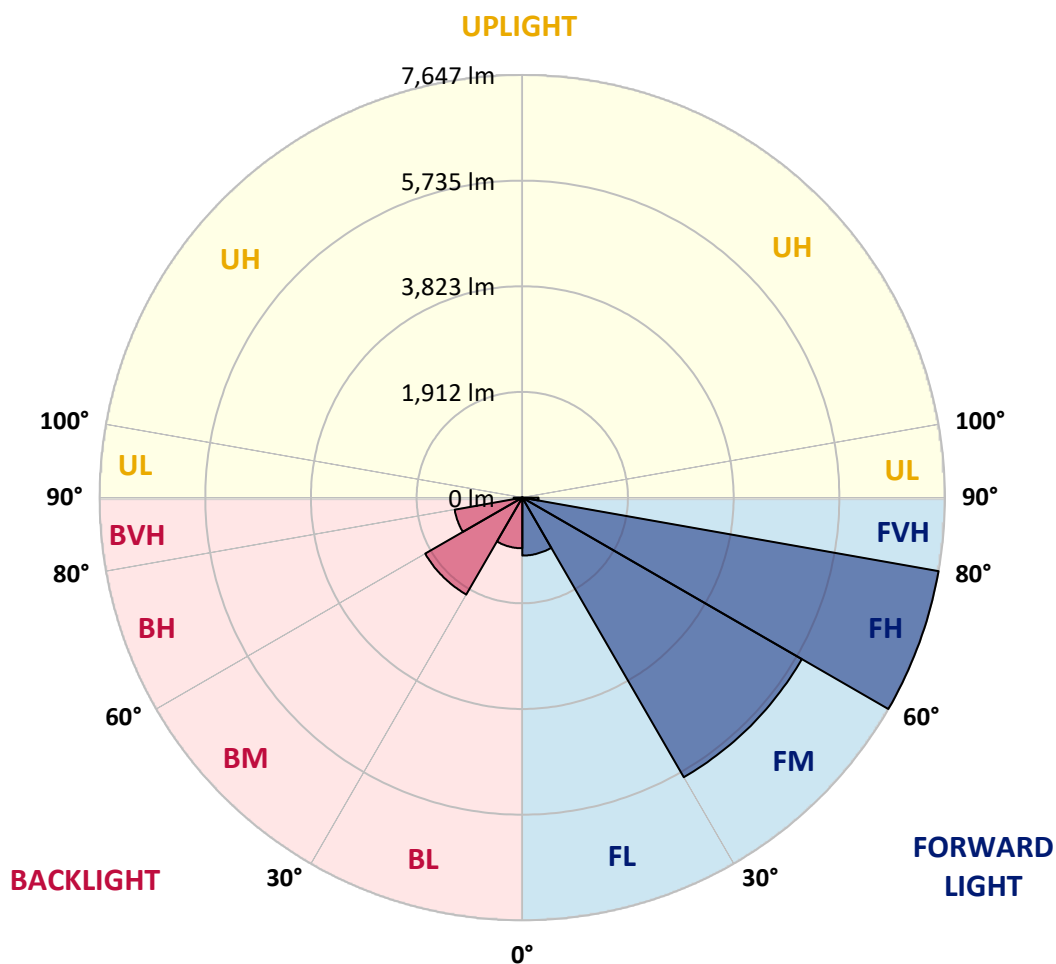
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1048.1	5.5			
FM	(30°-60°)	5839.8	30.5			
FH	(60°-80°)	7646.8	39.9			G4/12000
FVH	(80°-90°)	292.4	1.5			G3/500
BL	(0°-30°)	915.9	4.8	B2/1000		
BM	(30°-60°)	2026.2	10.6	B2/2500		
BH	(60°-80°)	1242.4	6.5	B3/2500		G3/2500
BVH	(80°-90°)	155.2	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1
2.5°	2048.2	2041.1	2040.0	2024.7	2016.4	2001.1	1994.9	1980.5	1963.1	1945.7	1929.3
5°	2209.3	2209.3	2202.1	2180.6	2146.7	2111.8	2096.4	2068.8	2019.5	1979.5	1945.7
7.5°	2374.4	2376.5	2362.1	2330.3	2282.1	2225.7	2211.3	2170.3	2100.5	2042.1	1991.8
10°	2517.0	2517.0	2497.5	2454.4	2393.9	2332.3	2318.0	2271.8	2193.9	2121.1	2055.4
12.5°	2625.7	2625.7	2600.0	2543.6	2478.0	2422.6	2406.2	2362.1	2289.3	2208.2	2125.2
15°	2696.5	2691.3	2662.6	2599.0	2535.4	2487.2	2475.9	2439.0	2372.3	2290.3	2197.0
17.5°	2699.5	2697.5	2669.8	2616.5	2561.1	2528.2	2521.1	2496.5	2444.1	2366.2	2267.7
20°	2640.0	2644.1	2625.7	2587.7	2561.1	2546.7	2543.6	2535.4	2498.5	2425.7	2327.2
22.5°	2576.5	2583.6	2566.2	2545.7	2543.6	2558.0	2560.0	2562.1	2538.5	2467.7	2377.5
25°	2561.1	2566.2	2548.8	2530.3	2541.6	2579.5	2587.7	2595.9	2577.5	2518.0	2437.0
27.5°	2639.0	2634.9	2601.1	2561.1	2568.2	2619.5	2630.8	2640.0	2630.8	2579.5	2510.8
30°	2859.5	2846.2	2778.5	2661.6	2624.7	2660.6	2671.8	2697.5	2697.5	2659.5	2590.8
32.5°	3228.8	3203.1	3079.0	2849.3	2721.1	2699.5	2710.8	2752.9	2774.4	2744.7	2669.8
35°	3677.0	3650.3	3472.9	3164.2	2897.5	2777.5	2774.4	2821.6	2879.0	2812.4	2714.9
37.5°	4127.3	4099.6	3886.2	3539.5	3154.9	2941.6	2923.1	2939.5	2964.2	2842.1	2777.5
40°	4577.5	4544.7	4358.0	3959.0	3469.8	3159.0	3110.8	3037.0	3026.7	2939.5	2898.5
42.5°	5023.7	4993.9	4899.6	4429.8	3847.2	3371.3	3297.5	3170.3	3209.3	3157.0	3121.1
45°	5473.9	5476.0	5375.5	4958.0	4302.6	3763.1	3663.7	3464.7	3557.0	3537.5	3558.0
47.5°	5872.9	5867.8	5831.9	5470.9	4867.8	4267.8	4139.6	3908.8	4066.7	4138.5	4295.5
50°	6259.6	6256.5	6258.6	6052.4	5524.2	4867.8	4726.2	4484.2	4840.1	5089.3	5370.4
52.5°	6813.5	6830.9	6706.8	6652.4	6322.2	5576.5	5420.6	5170.3	5753.9	6146.8	6695.5
55°	7369.4	7355.0	7257.6	7314.0	7157.0	6415.5	6252.4	6053.4	6771.4	7201.2	8025.8
57.5°	7696.5	7701.7	7801.2	8077.1	8187.8	7461.7	7314.0	7160.1	7915.0	8219.6	9209.4
60°	7990.9	8014.5	8300.7	8821.7	9122.2	8746.8	8615.5	8465.8	8964.3	9085.3	10237.1
62.5°	8083.2	8156.0	8655.5	9435.0	10033.0	10197.1	10034.0	9703.8	9963.3	9916.1	10933.5
65°	7622.7	7722.2	8617.6	9664.8	10846.3	11573.5	11469.9	10856.6	10814.5	10530.4	11047.4
67.5°	6410.4	6509.9	7659.6	9182.7	11182.8	12765.4	12661.8	11697.6	11331.5	10587.9	10185.8
70°	4690.3	4752.9	5852.4	7731.4	10506.9	13165.4	13201.3	12107.9	11146.9	9807.4	8363.2
72.5°	2702.6	2841.1	3611.3	5439.1	8583.7	12154.1	12403.3	11254.6	9979.7	8181.7	5847.3
75°	1162.1	1165.1	1669.8	3000.1	5813.4	9769.4	10010.4	9329.4	7837.1	5657.5	3122.1
77.5°	552.8	563.1	734.4	1339.5	3200.1	6749.9	7400.1	6590.9	5012.4	2718.0	1179.5
80°	359.0	366.2	449.2	664.6	1569.3	3913.9	4367.3	3802.1	2211.3	971.3	508.7
82.5°	217.4	219.5	300.5	406.2	863.6	1772.3	2089.3	1650.3	943.6	581.5	299.5
85°	132.3	133.3	182.6	251.3	524.1	612.3	628.7	623.6	553.9	380.5	160.0
87.5°	63.6	65.6	94.4	119.0	206.2	189.7	179.5	208.2	261.5	205.1	68.7
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°	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1	1924.1
2.5°	1922.1	1919.0	1911.8	1908.8	1906.7	1907.7	1906.7	1906.7	1907.7	1907.7	1907.7
5°	1931.3	1926.2	1914.9	1914.9	1921.1	1935.4	1948.8	1959.0	1970.3	1969.3	1969.3
7.5°	1971.3	1962.1	1948.8	1952.9	1968.2	1990.8	2014.4	2037.0	2059.5	2061.6	2060.5
10°	2029.8	2020.5	2006.2	2011.3	2035.9	2069.8	2099.5	2132.3	2157.0	2164.1	2162.1
12.5°	2096.4	2078.0	2065.7	2080.0	2119.0	2164.1	2192.9	2217.5	2234.9	2245.2	2241.1
15°	2164.1	2146.7	2132.3	2162.1	2209.3	2251.3	2265.7	2269.8	2272.9	2283.1	2281.1
17.5°	2229.8	2206.2	2201.1	2240.0	2285.2	2303.6	2295.4	2278.0	2264.7	2272.9	2271.8
20°	2288.2	2269.8	2267.7	2306.7	2324.1	2306.7	2271.8	2241.1	2217.5	2219.5	2218.5
22.5°	2343.6	2329.3	2331.3	2347.7	2320.0	2260.6	2203.1	2161.1	2135.4	2140.6	2143.6
25°	2405.2	2390.8	2395.9	2369.3	2278.0	2174.4	2091.3	2055.4	2045.2	2055.4	2062.6
27.5°	2485.2	2475.9	2472.9	2370.3	2203.1	2047.2	1952.9	1939.5	1948.8	1971.3	1982.6
30°	2571.3	2571.3	2554.9	2352.9	2100.5	1894.4	1812.3	1814.4	1846.2	1878.0	1889.3
32.5°	2654.4	2671.8	2620.6	2305.7	1968.2	1745.7	1683.1	1685.2	1712.9	1751.8	1762.1
35°	2723.1	2773.4	2677.0	2219.5	1812.3	1620.5	1573.4	1545.7	1546.7	1576.4	1584.6
37.5°	2817.5	2910.8	2709.8	2091.3	1646.2	1513.9	1460.5	1412.3	1380.5	1368.2	1368.2
40°	2981.6	3119.0	2718.0	1901.6	1489.3	1412.3	1336.4	1279.0	1217.5	1162.1	1151.8
42.5°	3259.5	3432.9	2701.6	1683.1	1347.7	1300.5	1226.7	1155.9	1070.8	992.8	986.7
45°	3751.9	3841.1	2657.5	1456.4	1221.6	1192.8	1121.0	1044.1	953.9	884.1	879.0
47.5°	4540.6	4414.4	2599.0	1255.4	1106.7	1098.5	1043.1	953.9	863.6	815.4	810.3
50°	5692.4	5317.0	2590.8	1109.8	1014.4	1018.5	973.4	891.3	812.3	772.3	766.2
52.5°	7079.1	6407.3	2645.2	1007.2	933.3	948.7	926.2	850.3	780.5	746.7	740.5
55°	8424.8	7387.8	2678.0	927.2	857.5	886.2	889.2	825.7	762.1	728.2	724.1
57.5°	9517.1	8126.3	2532.4	854.4	791.8	835.9	858.5	811.3	752.8	727.2	723.1
60°	10277.1	8475.0	2118.0	789.8	743.6	795.9	847.2	812.3	775.4	778.5	780.5
62.5°	10519.2	8320.1	1588.7	741.6	710.8	782.6	865.7	854.4	816.4	840.0	844.1
65°	10118.1	7680.1	1151.8	703.6	682.1	791.8	921.0	885.1	802.1	819.5	819.5
67.5°	8775.5	6616.5	896.4	668.7	649.2	809.2	976.4	882.1	768.2	788.7	770.3
70°	6961.1	5118.0	746.7	629.8	614.4	783.6	981.6	850.3	728.2	732.3	697.4
72.5°	4619.6	3365.2	642.1	592.8	561.0	704.6	939.5	809.2	689.2	665.7	630.8
75°	2263.6	1678.0	560.0	546.7	491.3	613.3	882.1	770.3	647.2	610.3	590.8
77.5°	876.9	713.9	478.0	488.2	427.7	540.5	806.2	714.9	591.8	541.5	526.2
80°	425.6	405.1	391.8	407.2	351.8	460.5	736.4	666.7	540.5	485.1	462.6
82.5°	264.6	250.3	300.5	316.9	270.8	420.5	698.5	625.7	475.9	402.1	383.6
85°	134.4	143.6	201.0	216.4	193.8	334.4	575.4	469.8	343.6	285.1	287.2
87.5°	51.3	68.7	105.6	113.8	103.6	176.4	316.9	273.9	220.5	149.7	138.5
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)