

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: P651322

Luminaire Tested: **GALN-SA3D-840-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P651322
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-SA3D-840-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19435.5 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

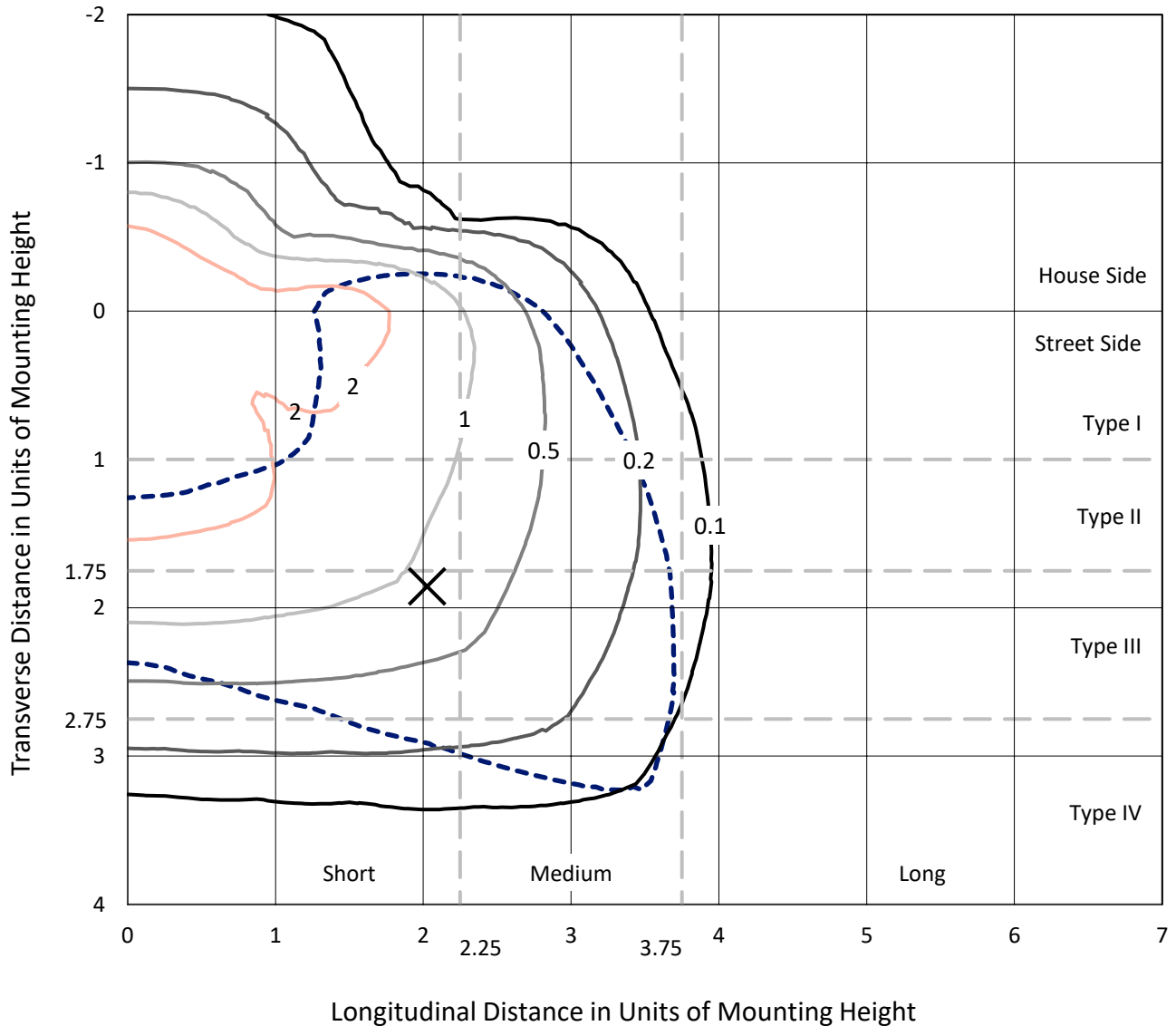
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

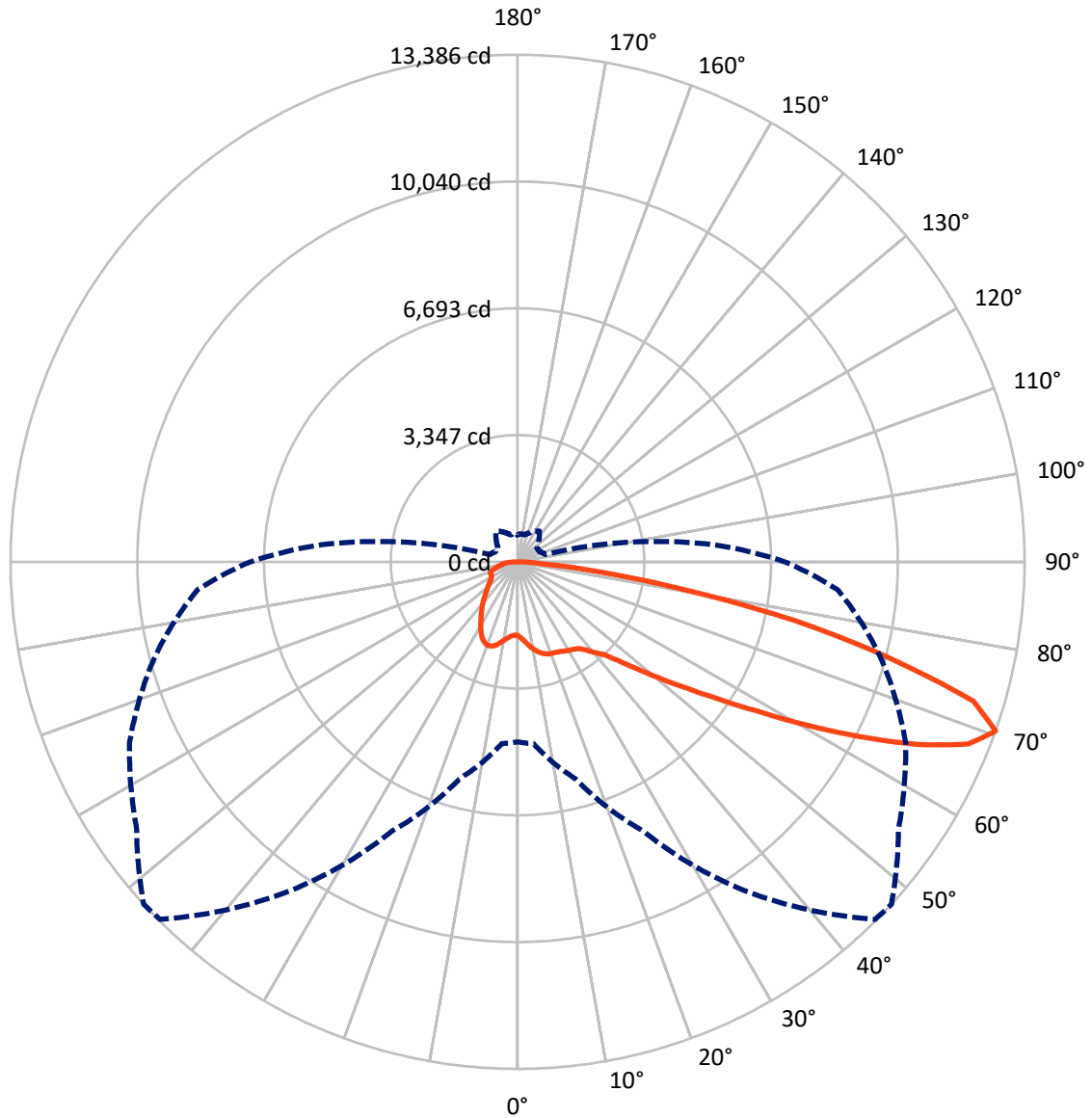
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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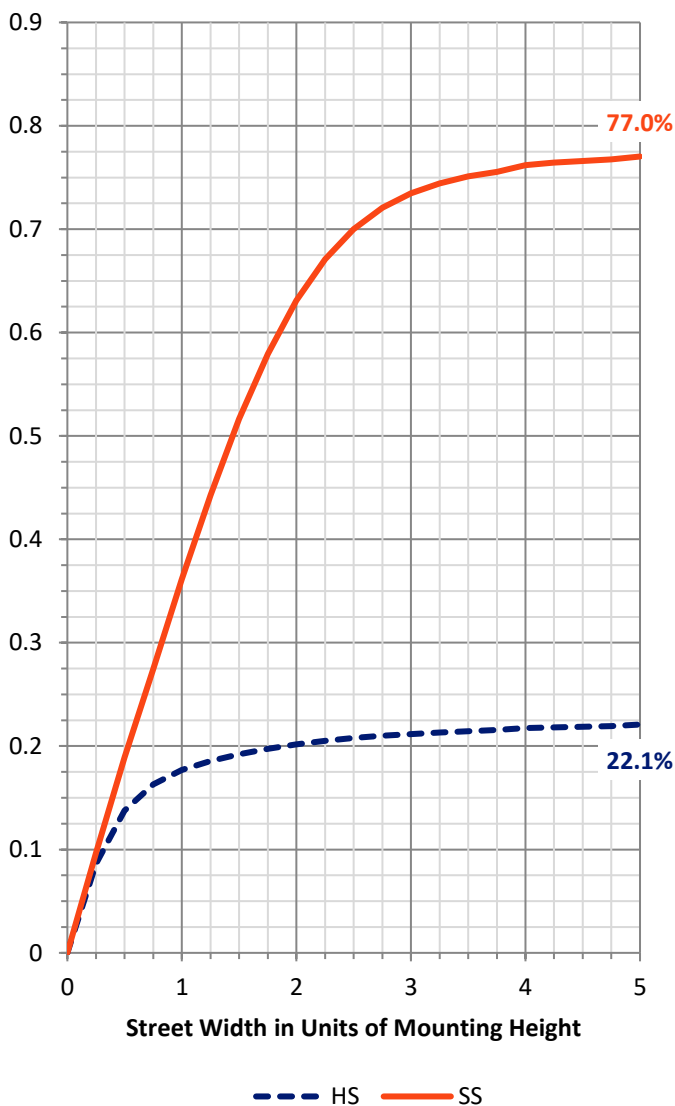
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4400.6	0.0	4400.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	15034.9	0.0	15034.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	19435.5	0.0	19435.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.1	1.0
10°-20°	672.4	3.5
20°-30°	1118.1	5.8
30°-40°	1584.7	8.2
40°-50°	2339.4	12.0
50°-60°	4052.0	20.8
60°-70°	5723.6	29.4
70°-80°	3290.2	16.9
80°-90°	454.0	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°	19435.5	100.0
0°-180°	19435.5	100.0

Coefficient of Utilization

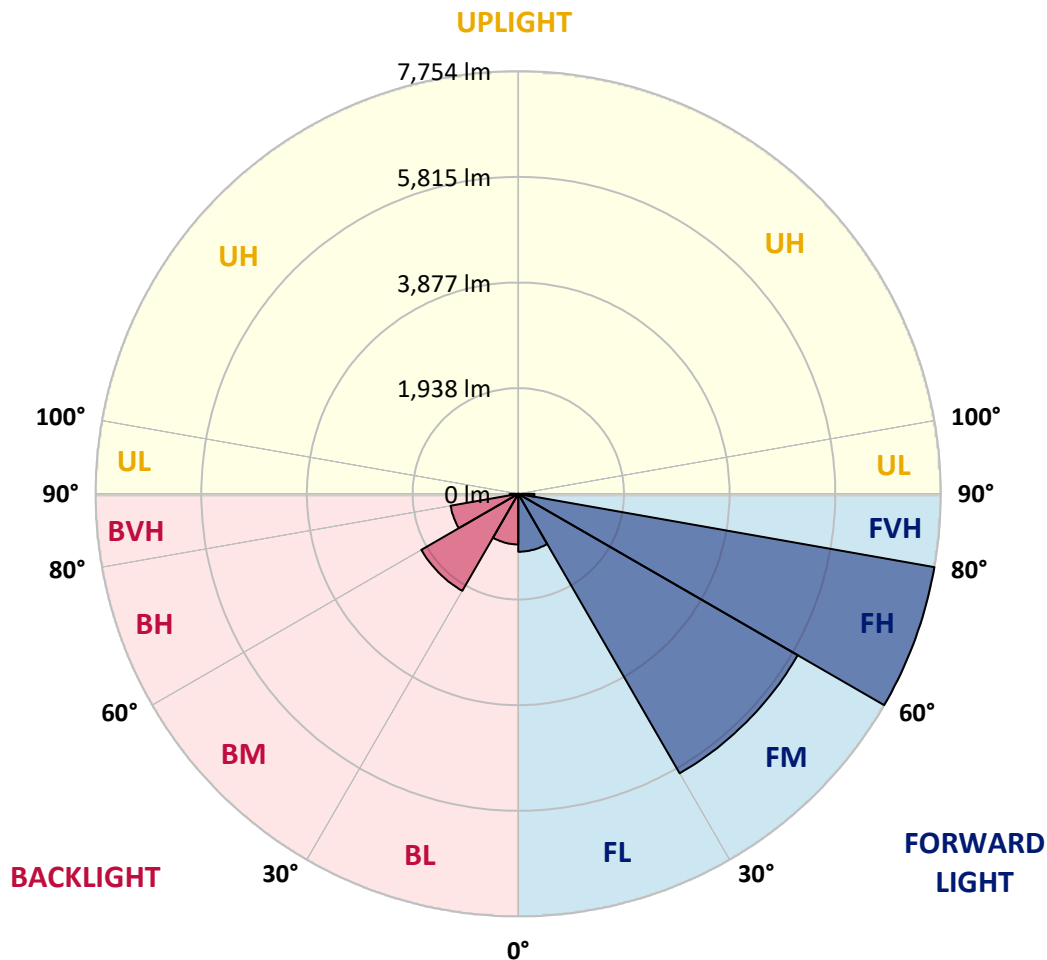


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1062.8	5.5			
FM (30°-60°)	5921.6	30.5			
FH (60°-80°)	7754.0	39.9			G4/12000
FVH (80°-90°)	296.5	1.5			G3/500
BL (0°-30°)	928.8	4.8	B2/1000		
BM (30°-60°)	2054.6	10.6	B2/2500		
BH (60°-80°)	1259.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	157.4	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°	1951.1	1951.1	1951.1	1951.1	1951.1	1951.1	1951.1	1951.1	1951.1	1951.1	1951.1
2.5°	2076.9	2069.6	2068.6	2053.0	2044.7	2029.1	2022.9	2008.3	1990.6	1972.9	1956.3
5°	2240.3	2240.3	2232.9	2211.1	2176.8	2141.4	2125.8	2097.7	2047.8	2007.2	1972.9
7.5°	2407.7	2409.7	2395.2	2363.0	2314.1	2256.8	2242.3	2200.7	2130.0	2070.7	2019.7
10°	2552.3	2552.3	2532.5	2488.8	2427.5	2365.1	2350.4	2303.7	2224.6	2150.8	2084.3
12.5°	2662.4	2662.4	2636.5	2579.3	2512.7	2456.6	2439.9	2395.2	2321.3	2239.2	2155.0
15°	2734.3	2729.0	2699.9	2635.4	2570.9	2522.1	2510.6	2473.2	2405.6	2322.4	2227.7
17.5°	2737.4	2735.3	2707.2	2653.1	2596.9	2563.7	2556.4	2531.4	2478.4	2399.4	2299.5
20°	2677.1	2681.2	2662.4	2624.0	2596.9	2582.4	2579.3	2570.9	2533.5	2459.7	2359.8
22.5°	2612.6	2619.8	2602.1	2581.4	2579.3	2593.8	2595.9	2598.0	2574.0	2502.3	2410.8
25°	2596.9	2602.1	2584.5	2565.7	2577.2	2615.7	2624.0	2632.3	2613.6	2553.3	2471.1
27.5°	2676.0	2671.9	2637.5	2596.9	2604.2	2656.2	2667.7	2677.1	2667.7	2615.7	2546.0
30°	2899.6	2886.1	2817.4	2698.9	2661.4	2697.8	2709.3	2735.3	2735.3	2696.8	2627.1
32.5°	3274.0	3248.0	3122.1	2889.2	2759.2	2737.4	2748.8	2791.4	2813.3	2783.1	2707.2
35°	3728.5	3701.5	3521.5	3208.5	2938.1	2816.4	2813.3	2861.1	2919.4	2851.7	2752.9
37.5°	4185.1	4157.0	3940.7	3589.1	3199.2	2982.8	2964.1	2980.8	3005.6	2881.9	2816.4
40°	4641.6	4608.3	4419.0	4014.5	3518.4	3203.3	3154.4	3079.5	3069.1	2980.8	2939.1
42.5°	5094.0	5063.9	4968.2	4491.9	3901.1	3418.6	3343.6	3214.7	3254.2	3201.2	3164.8
45°	5550.6	5552.7	5450.8	5027.5	4362.9	3815.9	3714.9	3513.2	3606.8	3587.0	3607.9
47.5°	5955.2	5950.0	5913.6	5547.5	4936.0	4327.5	4197.5	3963.5	4123.7	4196.5	4355.6
50°	6347.3	6344.2	6346.3	6137.2	5601.6	4936.0	4792.4	4547.0	4907.9	5160.6	5445.6
52.5°	6908.9	6926.6	6800.7	6745.6	6410.7	5654.6	5496.5	5242.8	5834.5	6232.9	6789.3
55°	7472.6	7458.1	7359.3	7416.4	7257.3	6505.4	6340.0	6138.2	6866.3	7302.1	8138.2
57.5°	7804.4	7809.5	7910.4	8190.2	8302.5	7566.2	7416.4	7260.4	8025.9	8334.8	9338.4
60°	8102.9	8126.8	8417.0	8945.3	9250.0	8869.4	8736.2	8584.4	9089.9	9212.6	10380.5
62.5°	8196.5	8270.3	8776.8	9567.2	10173.6	10339.9	10174.6	9839.7	10102.8	10055.0	11086.7
65°	7729.5	7830.4	8738.3	9800.2	10998.3	11735.7	11630.6	11008.7	10966.1	10677.9	11202.1
67.5°	6500.2	6601.1	7766.9	9311.4	11339.5	12944.2	12839.1	11861.5	11490.2	10736.2	10328.5
70°	4756.0	4819.5	5934.4	7839.7	10654.0	13349.8	13386.2	12277.5	11303.0	9944.7	8480.4
72.5°	2740.5	2880.8	3662.0	5515.3	8704.0	12324.4	12577.1	11412.2	10119.5	8296.3	5929.2
75°	1178.3	1181.4	1693.2	3042.1	5894.9	9906.2	10150.7	9460.1	7946.9	5736.8	3165.9
77.5°	560.6	571.0	744.6	1358.3	3244.9	6844.4	7503.8	6683.2	5082.6	2756.0	1196.1
80°	364.0	371.3	455.6	674.0	1591.3	3968.8	4428.5	3855.4	2242.3	984.9	515.9
82.5°	220.5	222.5	304.7	411.8	875.7	1797.1	2118.6	1673.4	956.8	589.7	303.7
85°	134.1	135.2	185.1	254.8	531.4	620.9	637.6	632.3	561.6	385.9	162.2
87.5°	64.5	66.5	95.7	120.7	209.1	192.4	182.0	211.1	265.2	208.0	69.7
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°	1951.1	1951.1	1951.1	1951.1	1951.1	1951.1	1951.1	1951.1	1951.1	1951.1	1951.1
2.5°	1949.0	1945.9	1938.6	1935.5	1933.4	1934.5	1933.4	1933.4	1934.5	1934.5	1934.5
5°	1958.4	1953.1	1941.7	1941.7	1948.0	1962.6	1976.0	1986.4	1997.9	1996.9	1996.9
7.5°	1999.0	1989.6	1976.0	1980.2	1995.8	2018.7	2042.6	2065.5	2088.4	2090.5	2089.4
10°	2058.2	2048.8	2034.3	2039.5	2064.5	2098.8	2128.9	2162.2	2187.2	2194.4	2192.4
12.5°	2125.8	2107.1	2094.6	2109.1	2148.7	2194.4	2223.6	2248.5	2266.2	2276.6	2272.5
15°	2194.4	2176.8	2162.2	2192.4	2240.3	2282.9	2297.4	2301.6	2304.7	2315.1	2313.0
17.5°	2261.0	2237.1	2231.9	2271.5	2317.2	2335.9	2327.6	2309.9	2296.4	2304.7	2303.7
20°	2320.3	2301.6	2299.5	2339.0	2356.7	2339.0	2303.7	2272.5	2248.5	2250.6	2249.6
22.5°	2376.5	2361.9	2364.0	2380.6	2352.5	2292.2	2233.9	2191.3	2165.3	2170.5	2173.6
25°	2438.9	2424.3	2429.5	2402.5	2309.9	2204.8	2120.6	2084.3	2073.8	2084.3	2091.5
27.5°	2520.0	2510.6	2507.5	2403.5	2233.9	2075.9	1980.2	1966.7	1976.0	1999.0	2010.4
30°	2607.4	2607.4	2590.7	2385.8	2130.0	1920.9	1837.8	1839.8	1872.1	1904.3	1915.7
32.5°	2691.6	2709.3	2657.3	2338.0	1995.8	1770.1	1706.7	1708.7	1736.8	1776.4	1786.8
35°	2761.3	2812.2	2714.5	2250.6	1837.8	1643.2	1595.4	1567.3	1568.4	1598.5	1606.8
37.5°	2857.0	2951.6	2747.7	2120.6	1669.2	1535.1	1481.0	1432.1	1399.8	1387.4	1387.4
40°	3023.4	3162.7	2756.0	1928.2	1510.1	1432.1	1355.2	1296.9	1234.5	1178.3	1168.0
42.5°	3305.2	3481.0	2739.5	1706.7	1366.6	1318.8	1243.8	1172.1	1085.8	1006.8	1000.5
45°	3804.4	3894.9	2694.7	1476.9	1238.7	1209.5	1136.8	1058.7	967.2	896.5	891.3
47.5°	4604.2	4476.3	2635.4	1273.0	1122.2	1113.9	1057.7	967.2	875.7	826.8	821.7
50°	5772.1	5391.5	2627.1	1125.3	1028.6	1032.7	987.0	903.8	823.7	783.1	776.9
52.5°	7178.3	6497.1	2682.2	1021.3	946.5	962.0	939.1	862.2	791.5	757.2	750.9
55°	8542.8	7491.3	2715.5	940.2	869.4	898.6	901.7	837.2	772.7	738.4	734.3
57.5°	9650.4	8240.1	2567.8	866.3	802.9	847.6	870.5	822.7	763.4	737.4	733.2
60°	10421.1	8593.8	2147.7	800.8	754.0	807.0	859.1	823.7	786.3	789.4	791.5
62.5°	10666.5	8436.7	1611.0	751.9	720.7	793.6	877.8	866.3	827.9	851.8	856.0
65°	10259.9	7787.7	1168.0	713.4	691.6	802.9	933.9	897.5	813.3	831.0	831.0
67.5°	8898.5	6709.2	909.0	678.1	658.3	820.6	990.1	894.4	779.0	799.8	781.0
70°	7058.7	5189.7	757.2	638.6	623.0	794.6	995.3	862.2	738.4	742.6	707.2
72.5°	4684.3	3412.4	651.0	601.1	568.9	714.5	952.7	820.6	698.9	675.0	639.6
75°	2295.3	1701.5	567.8	554.3	498.2	621.9	894.4	781.0	656.2	618.8	599.0
77.5°	889.2	723.8	484.7	495.0	433.7	548.1	817.5	724.9	600.1	549.2	533.5
80°	431.6	410.8	397.3	412.9	356.8	467.0	746.7	676.0	548.1	491.9	469.0
82.5°	268.4	253.7	304.7	321.3	274.6	426.4	708.3	634.5	482.6	407.7	389.0
85°	136.2	145.6	203.9	219.4	196.5	339.0	583.5	476.3	348.4	289.1	291.2
87.5°	52.0	69.7	107.1	115.5	105.0	178.9	321.3	277.7	223.6	151.9	140.4
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)