

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: P651982

Luminaire Tested: **GALN-SA6A-840-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P651982
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-SA6A-840-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 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: 22823 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

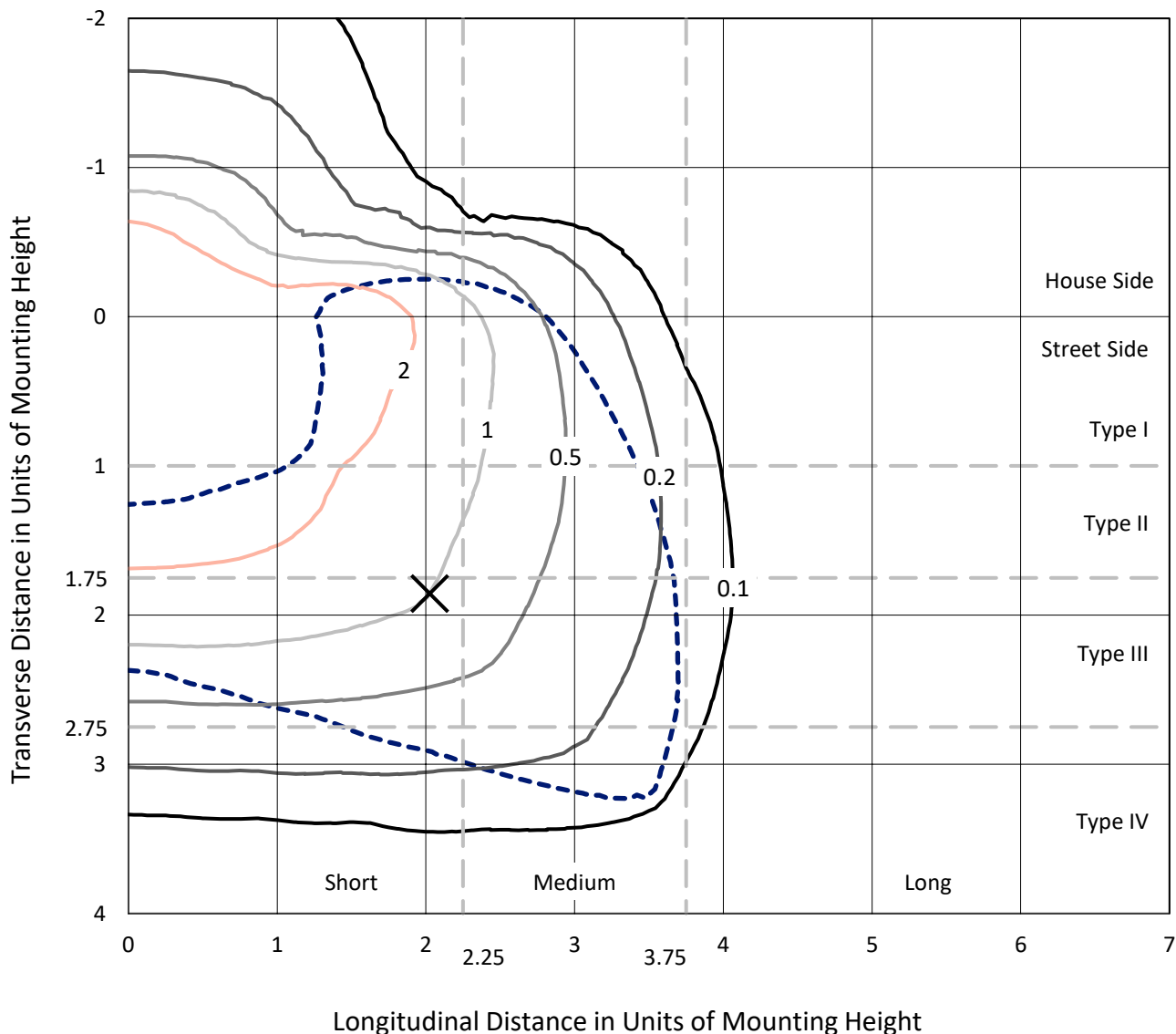
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

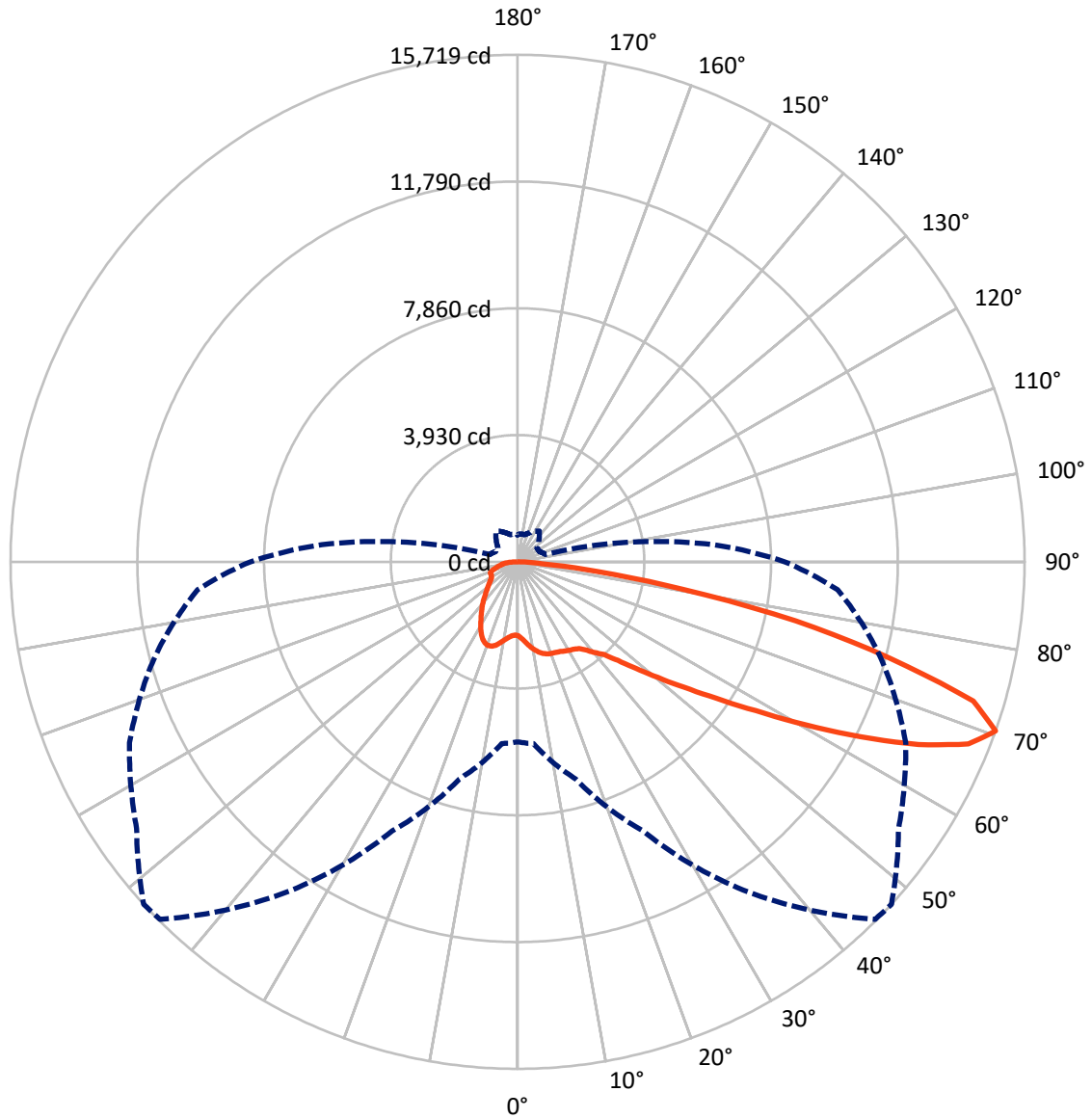
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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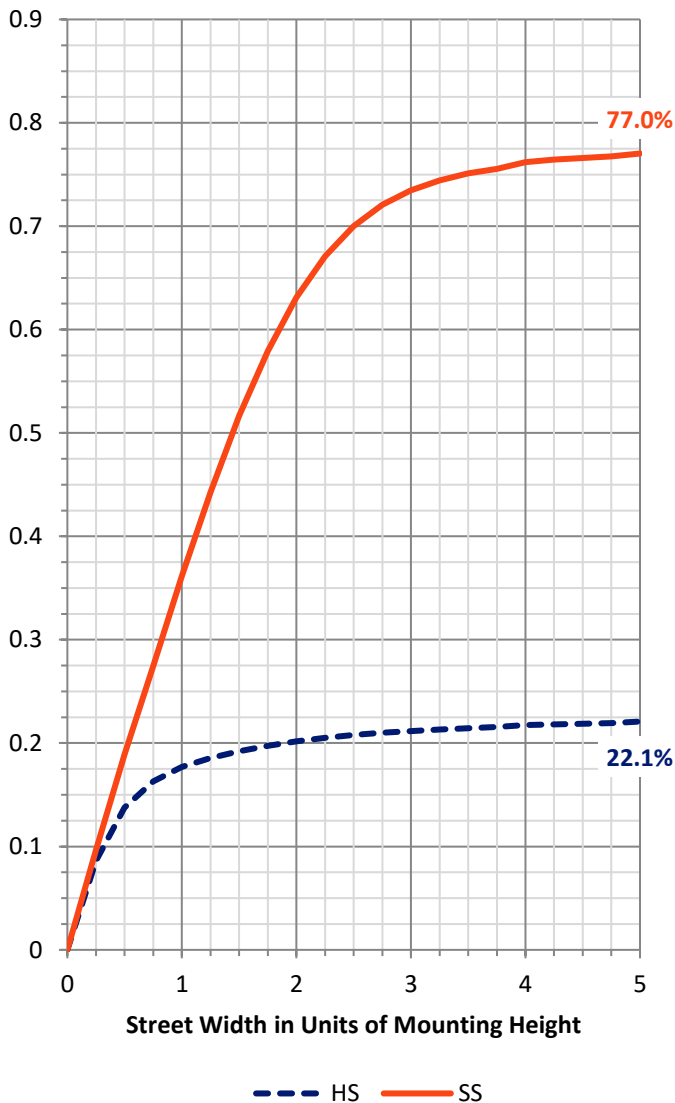
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5167.6	0.0	5167.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	17655.5	0.0	17655.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	22823.0	0.0	22823.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.2	1.0
10°-20°	789.5	3.5
20°-30°	1313.0	5.8
30°-40°	1861.0	8.2
40°-50°	2747.2	12.0
50°-60°	4758.2	20.8
60°-70°	6721.2	29.4
70°-80°	3863.7	16.9
80°-90°	533.1	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°	22823.0	100.0
0°-180°	22823.0	100.0



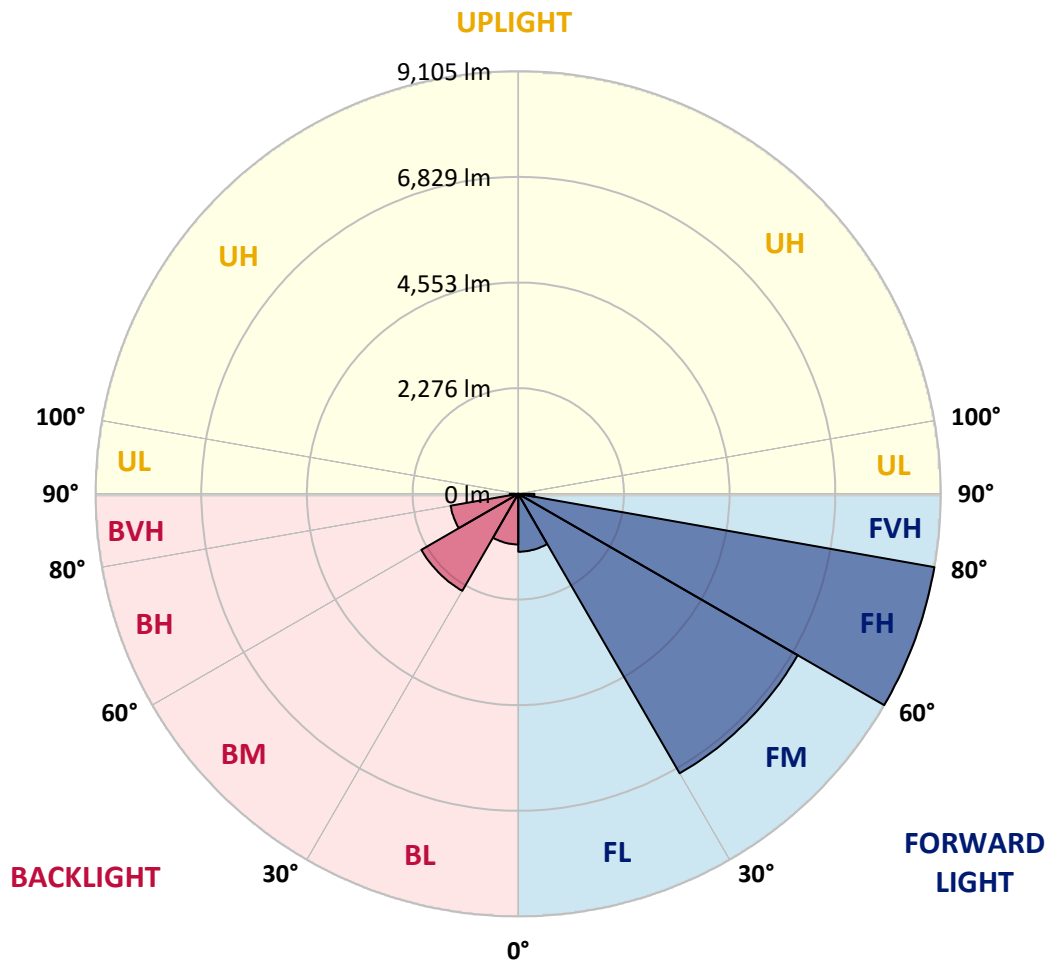
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1248.0	5.5			
FM (30°-60°)	6953.7	30.5			
FH (60°-80°)	9105.4	39.9			G4/12000
FVH (80°-90°)	348.2	1.5			G3/500
BL (0°-30°)	1090.7	4.8	B3/2500		
BM (30°-60°)	2412.7	10.6	B2/2500		
BH (60°-80°)	1479.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	184.9	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°	2291.1	2291.1	2291.1	2291.1	2291.1	2291.1	2291.1	2291.1	2291.1	2291.1	2291.1
2.5°	2438.9	2430.4	2429.1	2410.8	2401.1	2382.7	2375.4	2358.3	2337.6	2316.8	2297.3
5°	2630.6	2630.6	2622.2	2596.5	2556.2	2514.7	2496.3	2463.4	2404.8	2357.1	2316.8
7.5°	2827.3	2829.7	2812.6	2774.8	2717.4	2650.2	2633.1	2584.3	2501.2	2431.6	2371.8
10°	2997.1	2997.1	2973.9	2922.6	2850.5	2777.2	2760.2	2705.2	2612.4	2525.7	2447.5
12.5°	3126.5	3126.5	3096.0	3028.9	2950.6	2884.7	2865.2	2812.6	2725.9	2629.5	2530.6
15°	3210.8	3204.7	3170.5	3094.8	3019.0	2961.7	2948.2	2904.2	2824.8	2727.2	2616.0
17.5°	3214.5	3212.0	3179.1	3115.6	3049.6	3010.5	3001.9	2972.7	2910.4	2817.5	2700.3
20°	3143.7	3148.5	3126.5	3081.3	3049.6	3032.5	3028.9	3019.0	2975.1	2888.4	2771.1
22.5°	3067.9	3076.5	3055.7	3031.3	3028.9	3045.9	3048.4	3050.8	3022.7	2938.5	2831.0
25°	3049.6	3055.7	3034.9	3013.0	3026.4	3071.6	3081.3	3091.1	3069.1	2998.3	2901.8
27.5°	3142.4	3137.5	3097.2	3049.6	3058.1	3119.2	3132.6	3143.7	3132.6	3071.6	2989.8
30°	3405.0	3389.1	3308.5	3169.3	3125.3	3168.0	3181.5	3212.0	3212.0	3166.9	3085.0
32.5°	3844.6	3814.1	3666.3	3392.8	3240.1	3214.5	3227.9	3278.0	3303.6	3268.2	3179.1
35°	4378.3	4346.6	4135.4	3767.7	3450.2	3307.3	3303.6	3359.8	3428.2	3348.8	3232.8
37.5°	4914.6	4881.5	4627.5	4214.7	3756.7	3502.7	3480.7	3500.2	3529.6	3384.2	3307.3
40°	5450.7	5411.6	5189.3	4714.2	4131.7	3761.6	3704.2	3616.3	3604.0	3500.2	3451.4
42.5°	5981.9	5946.5	5834.2	5274.8	4581.1	4014.4	3926.5	3775.1	3821.4	3759.2	3716.4
45°	6518.1	6520.5	6400.9	5903.7	5123.4	4480.9	4362.5	4125.5	4235.4	4212.2	4236.7
47.5°	6993.2	6987.0	6944.3	6514.4	5796.3	5081.8	4929.2	4654.3	4842.5	4927.9	5114.8
50°	7453.6	7449.9	7452.4	7206.9	6578.0	5796.3	5627.7	5339.5	5763.3	6060.1	6394.7
52.5°	8113.1	8133.9	7986.1	7921.4	7528.1	6640.2	6454.6	6156.5	6851.5	7319.2	7972.7
55°	8775.1	8757.9	8641.9	8709.1	8522.3	7639.2	7445.0	7208.1	8063.0	8574.8	9556.7
57.5°	9164.6	9170.8	9289.2	9617.8	9749.6	8885.0	8709.1	8525.9	9424.8	9787.5	10966.1
60°	9515.2	9543.2	9884.0	10504.4	10862.3	10415.3	10258.9	10080.6	10674.1	10818.3	12189.8
62.5°	9625.1	9711.8	10306.5	11234.8	11946.7	12142.2	11948.0	11554.8	11863.7	11807.6	13019.1
65°	9076.7	9195.2	10261.4	11508.3	12915.2	13781.1	13657.8	12927.4	12877.4	12539.1	13154.7
67.5°	7633.2	7751.6	9120.6	10934.3	13315.8	15200.3	15076.9	13928.9	13492.9	12607.5	12128.7
70°	5585.0	5659.5	6968.8	9206.2	12511.0	15676.6	15719.4	14417.4	13273.1	11678.0	9958.4
72.5°	3218.1	3383.0	4300.2	6476.5	10221.1	14472.4	14769.2	13401.3	11883.2	9742.3	6962.6
75°	1383.7	1387.4	1988.3	3572.3	6922.4	11632.9	11919.9	11108.9	9332.0	6736.7	3717.6
77.5°	658.3	670.5	874.5	1595.0	3810.5	8037.4	8811.7	7848.0	5968.5	3236.4	1404.5
80°	427.5	436.0	535.0	791.4	1868.6	4660.5	5200.3	4527.4	2633.1	1156.5	605.8
82.5°	258.9	261.4	357.8	483.7	1028.4	2110.4	2487.8	1965.1	1123.6	692.5	356.6
85°	157.5	158.8	217.4	299.2	624.1	729.1	748.7	742.5	659.5	453.1	190.5
87.5°	75.7	78.1	112.4	141.7	245.5	226.0	213.7	247.9	311.4	244.2	81.8
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°	2291.1	2291.1	2291.1	2291.1	2291.1	2291.1	2291.1	2291.1	2291.1	2291.1	2291.1
2.5°	2288.7	2285.1	2276.5	2272.8	2270.4	2271.6	2270.4	2270.4	2271.6	2271.6	2271.6
5°	2299.7	2293.6	2280.2	2280.2	2287.5	2304.6	2320.5	2332.7	2346.1	2344.9	2344.9
7.5°	2347.3	2336.4	2320.5	2325.4	2343.7	2370.5	2398.6	2425.5	2452.4	2454.8	2453.6
10°	2416.9	2405.9	2388.9	2395.0	2424.3	2464.6	2500.0	2539.1	2568.4	2576.9	2574.5
12.5°	2496.3	2474.4	2459.7	2476.8	2523.2	2576.9	2611.1	2640.5	2661.2	2673.5	2668.6
15°	2576.9	2556.2	2539.1	2574.5	2630.6	2680.8	2697.8	2702.7	2706.4	2718.6	2716.2
17.5°	2655.1	2627.0	2620.9	2667.3	2721.1	2743.0	2733.2	2712.5	2696.7	2706.4	2705.2
20°	2724.8	2702.7	2700.3	2746.7	2767.5	2746.7	2705.2	2668.6	2640.5	2642.9	2641.7
22.5°	2790.7	2773.5	2776.1	2795.6	2762.6	2691.8	2623.3	2573.3	2542.8	2548.8	2552.5
25°	2863.9	2846.9	2852.9	2821.2	2712.5	2589.2	2490.2	2447.5	2435.3	2447.5	2456.1
27.5°	2959.2	2948.2	2944.6	2822.4	2623.3	2437.7	2325.4	2309.5	2320.5	2347.3	2360.8
30°	3061.8	3061.8	3042.2	2801.6	2501.2	2255.7	2158.0	2160.4	2198.4	2236.2	2249.7
32.5°	3160.7	3181.5	3120.4	2745.4	2343.7	2078.6	2004.2	2006.6	2039.6	2086.0	2098.2
35°	3242.6	3302.4	3187.6	2642.9	2158.0	1929.7	1873.5	1840.5	1841.7	1877.1	1887.0
37.5°	3354.9	3466.0	3226.7	2490.2	1960.2	1802.6	1739.1	1681.7	1643.9	1629.2	1629.2
40°	3550.3	3713.9	3236.4	2264.3	1773.3	1681.7	1591.3	1523.0	1449.7	1383.7	1371.5
42.5°	3881.3	4087.7	3216.9	2004.2	1604.8	1548.6	1460.6	1376.4	1275.0	1182.2	1174.9
45°	4467.6	4573.8	3164.4	1734.2	1454.6	1420.4	1334.9	1243.3	1135.8	1052.8	1046.6
47.5°	5406.7	5256.5	3094.8	1494.9	1317.8	1308.0	1242.1	1135.8	1028.4	970.9	964.8
50°	6778.2	6331.2	3085.0	1321.5	1207.8	1212.7	1159.0	1061.3	967.2	919.6	912.3
52.5°	8429.4	7629.5	3149.7	1199.4	1111.4	1129.7	1102.8	1012.5	929.4	889.1	881.8
55°	10031.8	8797.0	3188.8	1104.1	1021.0	1055.2	1058.9	983.1	907.4	867.2	862.3
57.5°	11332.5	9676.4	3015.4	1017.4	942.8	995.3	1022.2	966.1	896.4	865.9	861.0
60°	12237.5	10091.6	2522.0	940.4	885.4	947.7	1008.8	967.2	923.3	927.0	929.4
62.5°	12525.7	9907.2	1891.8	883.0	846.4	931.8	1030.8	1017.4	972.2	1000.3	1005.2
65°	12048.2	9145.1	1371.5	837.8	812.2	942.8	1096.7	1053.9	955.0	975.8	975.8
67.5°	10449.4	7878.6	1067.4	796.3	773.0	963.6	1162.7	1050.3	914.8	939.1	917.2
70°	8289.0	6094.3	889.1	749.9	731.6	933.1	1168.8	1012.5	867.2	872.0	830.5
72.5°	5500.7	4007.1	764.6	705.9	668.1	839.1	1118.7	963.6	820.7	792.6	751.1
75°	2695.4	1998.0	666.8	650.9	585.0	730.3	1050.3	917.2	770.6	726.7	703.5
77.5°	1044.2	850.0	569.1	581.3	509.3	643.6	959.9	851.3	704.7	644.9	626.5
80°	506.9	482.4	466.5	484.8	418.9	548.3	876.9	793.8	643.6	577.7	550.8
82.5°	315.1	298.0	357.8	377.4	322.4	500.7	831.7	745.0	566.7	478.8	456.7
85°	160.0	171.0	239.3	257.7	230.9	398.1	685.2	559.3	409.1	339.5	342.0
87.5°	61.1	81.8	125.8	135.6	123.4	210.1	377.4	326.1	262.6	178.3	164.8
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)