

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: P648077

Luminaire Tested: **GALN-SA7A-835-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P648077
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-SA7A-835-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 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: 24958.9 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

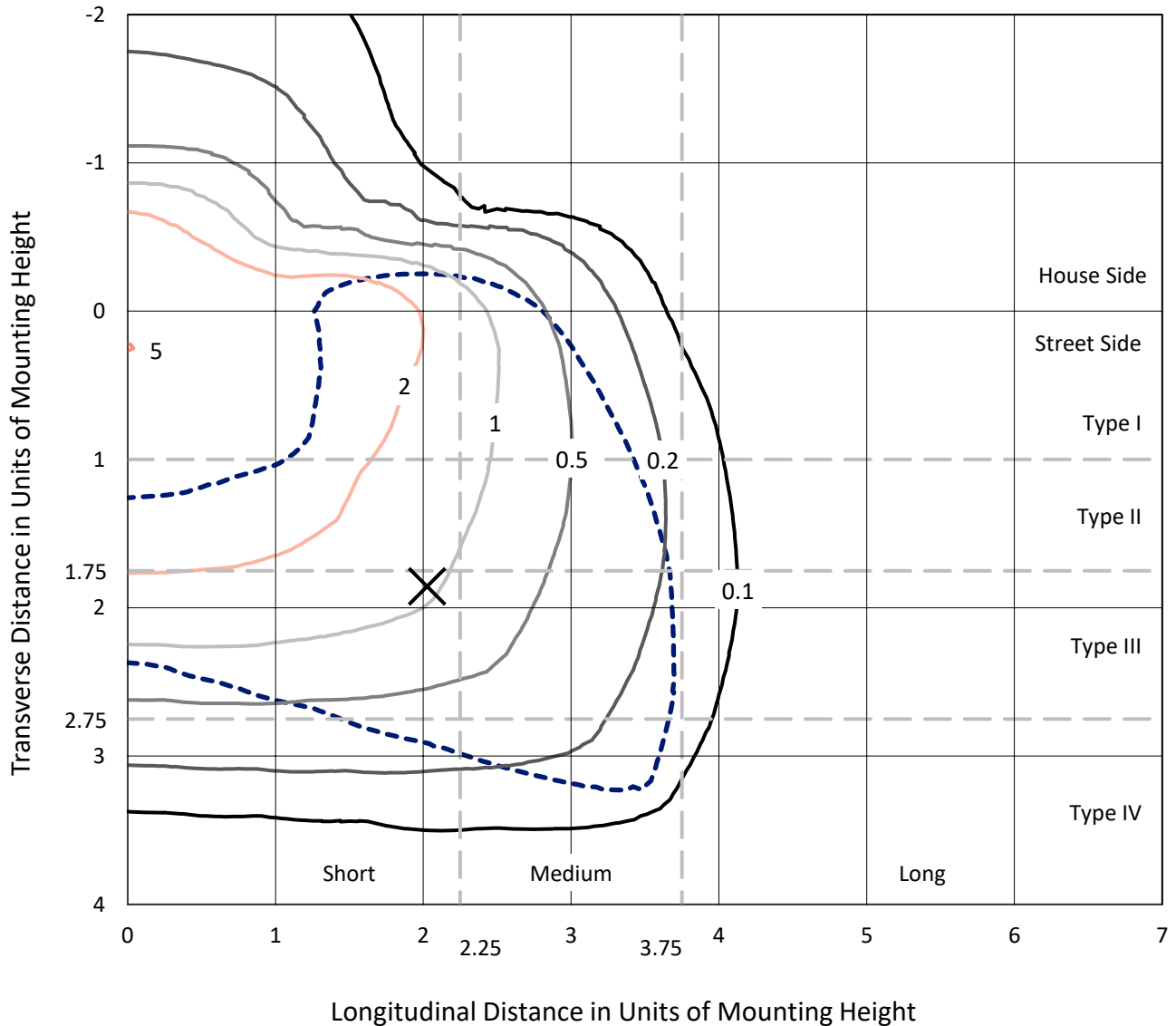
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

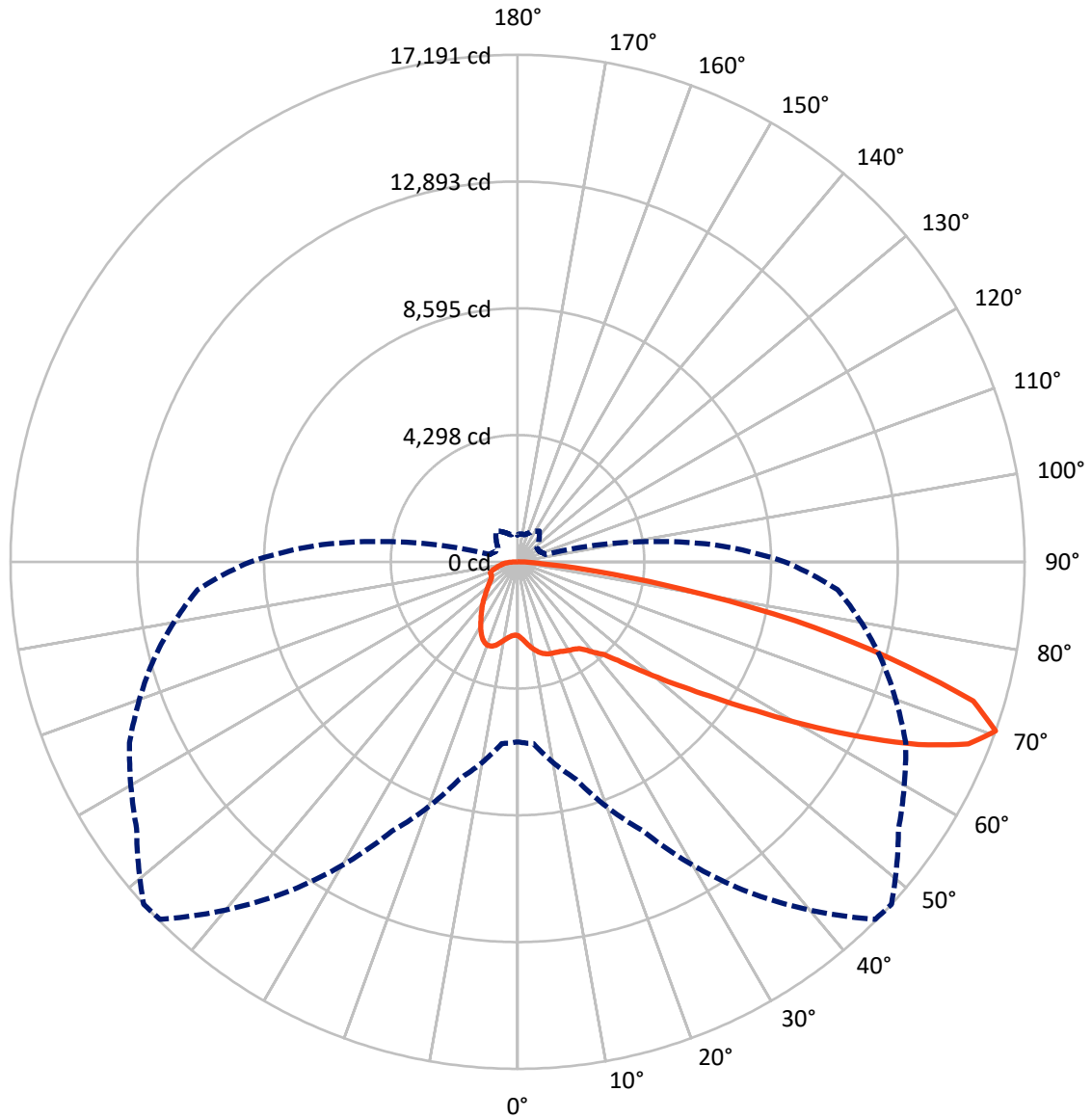
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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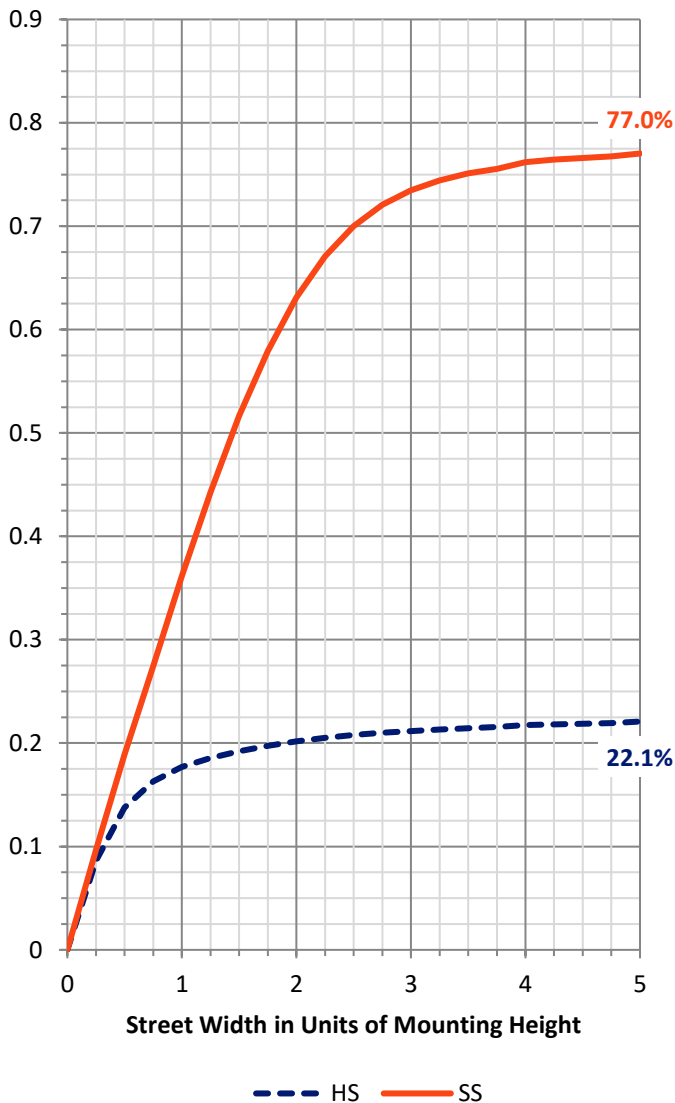
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5651.2	0.0	5651.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	19307.7	0.0	19307.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	24958.9	0.0	24958.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.3	1.0
10°-20°	863.4	3.5
20°-30°	1435.9	5.8
30°-40°	2035.1	8.2
40°-50°	3004.3	12.0
50°-60°	5203.5	20.8
60°-70°	7350.2	29.4
70°-80°	4225.3	16.9
80°-90°	583.0	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°	24958.9	100.0
0°-180°	24958.9	100.0

Coefficient of Utilization



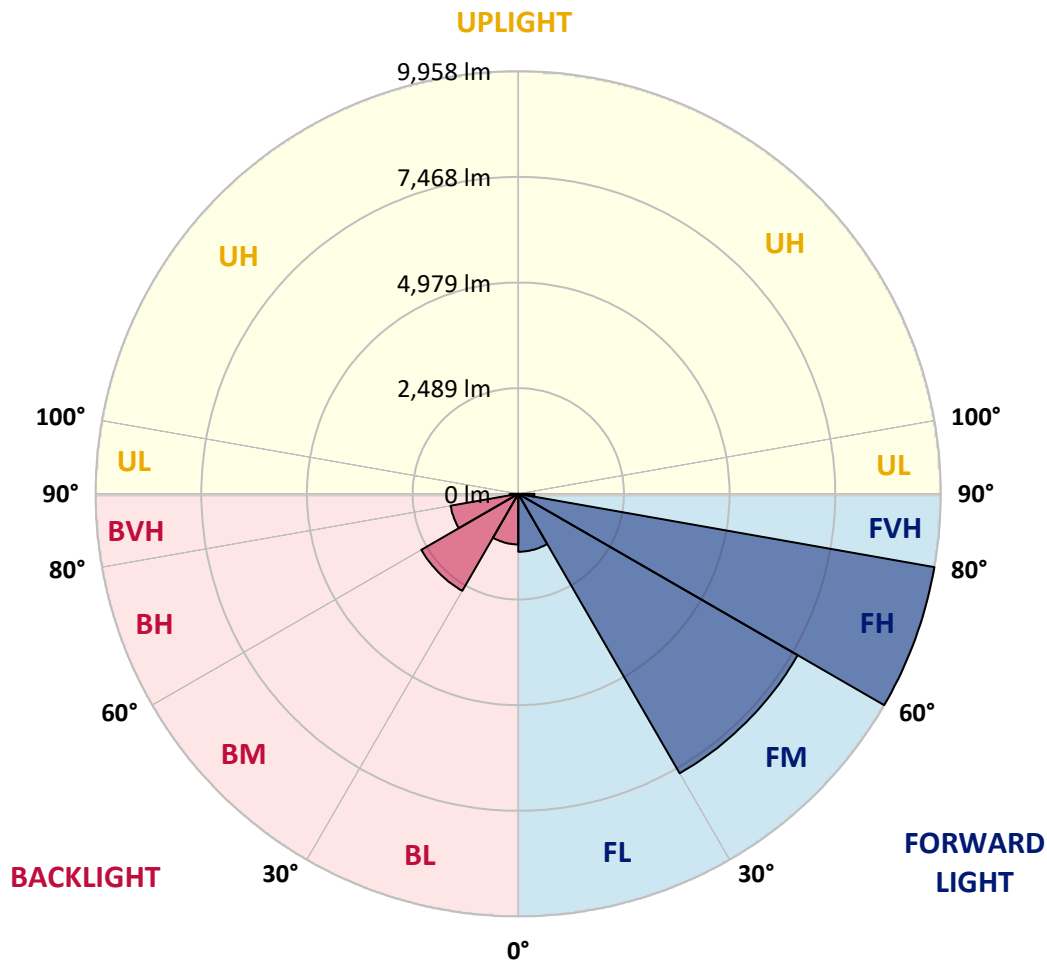
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1364.8	5.5			
FM (30°-60°)	7604.5	30.5			
FH (60°-80°)	9957.6	39.9			G4/12000
FVH (80°-90°)	380.8	1.5			G3/500
BL (0°-30°)	1192.7	4.8	B3/2500		
BM (30°-60°)	2638.4	10.6	B3/5000		
BH (60°-80°)	1617.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	202.2	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°	2505.6	2505.6	2505.6	2505.6	2505.6	2505.6	2505.6	2505.6	2505.6	2505.6	2505.6
2.5°	2667.2	2657.8	2656.5	2636.4	2625.8	2605.7	2597.8	2579.0	2556.3	2533.6	2512.3
5°	2876.9	2876.9	2867.5	2839.5	2795.4	2750.0	2729.9	2693.9	2629.8	2577.7	2533.6
7.5°	3091.9	3094.6	3075.9	3034.4	2971.7	2898.3	2879.6	2826.1	2735.3	2659.1	2593.7
10°	3277.6	3277.6	3252.2	3196.0	3117.3	3037.2	3018.5	2958.3	2856.9	2762.0	2676.5
12.5°	3419.1	3419.1	3385.7	3312.2	3226.8	3154.7	3133.3	3075.9	2981.0	2875.6	2767.4
15°	3511.3	3504.6	3467.2	3384.4	3301.6	3238.8	3224.2	3176.0	3089.2	2982.4	2860.8
17.5°	3515.3	3512.6	3476.5	3407.1	3335.0	3292.2	3282.9	3250.9	3182.7	3081.2	2953.0
20°	3437.8	3443.2	3419.1	3369.7	3335.0	3316.3	3312.2	3301.6	3253.5	3158.7	3030.4
22.5°	3355.0	3364.4	3341.7	3314.9	3312.2	3331.0	3333.6	3336.3	3305.6	3213.4	3095.9
25°	3335.0	3341.7	3319.0	3294.9	3309.6	3359.0	3369.7	3380.4	3356.3	3278.9	3173.3
27.5°	3436.5	3431.1	3387.1	3335.0	3344.3	3411.1	3425.8	3437.8	3425.8	3359.0	3269.5
30°	3723.6	3706.3	3618.1	3465.9	3417.8	3464.5	3479.3	3512.6	3512.6	3463.2	3373.7
32.5°	4204.5	4171.0	4009.4	3710.2	3543.3	3515.3	3530.0	3584.7	3612.8	3574.1	3476.5
35°	4788.1	4753.4	4522.3	4120.3	3773.0	3616.8	3612.8	3674.2	3749.0	3662.2	3535.3
37.5°	5374.4	5338.3	5060.5	4609.1	4108.3	3830.5	3806.5	3827.8	3859.9	3700.9	3616.8
40°	5960.7	5918.0	5674.9	5155.4	4518.3	4113.6	4050.9	3954.7	3941.3	3827.8	3774.4
42.5°	6541.7	6503.0	6380.1	5768.4	5009.8	4390.1	4294.0	4128.3	4179.1	4111.0	4064.2
45°	7128.0	7130.7	6999.9	6456.2	5602.8	4900.3	4770.7	4511.6	4631.8	4606.5	4633.2
47.5°	7647.6	7640.9	7594.2	7124.0	6338.7	5557.4	5390.5	5090.0	5295.7	5389.2	5593.4
50°	8151.1	8147.1	8149.8	7881.4	7193.5	6338.7	6154.4	5839.2	6302.7	6627.2	6993.2
52.5°	8872.3	8895.0	8733.4	8662.6	8232.6	7261.6	7058.6	6732.7	7492.7	8004.2	8718.8
55°	9596.2	9577.6	9450.7	9524.1	9319.7	8354.1	8141.8	7882.7	8817.6	9377.2	10451.0
57.5°	10022.3	10029.0	10158.6	10517.8	10662.0	9716.5	9524.1	9323.8	10306.8	10703.5	11992.3
60°	10405.6	10436.3	10808.9	11487.5	11878.7	11389.9	11219.0	11024.0	11673.1	11830.7	13330.6
62.5°	10525.8	10620.6	11271.1	12286.1	13064.7	13278.5	13066.1	12636.1	12974.0	12912.5	14237.4
65°	9926.2	10055.7	11221.6	12585.3	14123.9	15070.9	14936.0	14137.3	14082.5	13712.5	14385.7
67.5°	8347.5	8477.0	9974.2	11957.6	14562.0	16622.8	16487.9	15232.5	14755.6	13787.3	13263.8
70°	6107.6	6189.1	7620.9	10067.7	13681.8	17143.7	17190.5	15766.7	14515.3	12771.0	10890.4
72.5°	3519.3	3699.6	4702.6	7082.6	11177.6	15826.8	16151.3	14655.5	12995.3	10654.0	7614.2
75°	1513.2	1517.2	2174.3	3906.6	7570.1	12721.6	13035.4	12148.6	10205.3	7367.2	4065.6
77.5°	719.9	733.3	956.3	1744.3	4167.0	8789.6	9636.3	8582.5	6527.0	3539.3	1535.9
80°	467.5	476.8	585.0	865.4	2043.5	5096.6	5686.9	4951.1	2879.6	1264.8	662.4
82.5°	283.1	285.8	391.3	528.9	1124.5	2307.9	2720.6	2148.9	1228.8	757.3	390.0
85°	172.3	173.6	237.7	327.2	682.5	797.3	818.7	812.0	721.2	495.5	208.4
87.5°	82.8	85.5	122.9	155.0	268.5	247.1	233.7	271.2	340.6	267.1	89.5
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°	2505.6	2505.6	2505.6	2505.6	2505.6	2505.6	2505.6	2505.6	2505.6	2505.6	2505.6
2.5°	2502.9	2498.9	2489.5	2485.6	2482.9	2484.2	2482.9	2482.9	2484.2	2484.2	2484.2
5°	2514.9	2508.3	2493.5	2493.5	2501.5	2520.2	2537.6	2551.0	2565.7	2564.3	2564.3
7.5°	2567.0	2555.0	2537.6	2542.9	2563.0	2592.4	2623.1	2652.5	2681.9	2684.5	2683.2
10°	2643.2	2631.1	2612.4	2619.1	2651.2	2695.2	2733.9	2776.7	2808.8	2818.1	2815.4
12.5°	2729.9	2705.9	2689.9	2708.6	2759.4	2818.1	2855.5	2887.5	2910.3	2923.6	2918.2
15°	2818.1	2795.4	2776.7	2815.4	2876.9	2931.6	2950.3	2955.7	2959.7	2973.1	2970.4
17.5°	2903.6	2872.8	2866.2	2916.9	2975.7	2999.8	2989.0	2966.3	2949.0	2959.7	2958.3
20°	2979.7	2955.7	2953.0	3003.7	3026.5	3003.7	2958.3	2918.2	2887.5	2890.2	2888.9
22.5°	3051.8	3033.1	3035.8	3057.1	3021.1	2943.6	2868.8	2814.1	2780.7	2787.4	2791.4
25°	3132.0	3113.3	3119.9	3085.3	2966.3	2831.5	2723.3	2676.5	2663.1	2676.5	2685.8
27.5°	3236.1	3224.2	3220.1	3086.6	2868.8	2665.9	2542.9	2525.6	2537.6	2567.0	2581.7
30°	3348.3	3348.3	3327.0	3063.9	2735.3	2466.8	2360.0	2362.7	2404.0	2445.5	2460.2
32.5°	3456.6	3479.3	3412.5	3002.4	2563.0	2273.2	2191.7	2194.4	2230.5	2281.2	2294.6
35°	3546.0	3611.4	3485.9	2890.2	2360.0	2110.3	2048.8	2012.7	2014.1	2052.8	2063.5
37.5°	3668.9	3790.4	3528.7	2723.3	2143.6	1971.4	1901.9	1839.1	1797.7	1781.7	1781.7
40°	3882.6	4061.6	3539.3	2476.2	1939.3	1839.1	1740.3	1665.5	1585.3	1513.2	1499.8
42.5°	4244.5	4470.2	3517.9	2191.7	1754.9	1693.6	1597.4	1505.2	1394.4	1292.9	1284.8
45°	4885.6	5001.8	3460.5	1896.5	1590.7	1553.3	1459.8	1359.6	1242.1	1151.2	1144.6
47.5°	5912.7	5748.4	3384.4	1634.7	1441.1	1430.4	1358.3	1242.1	1124.5	1061.8	1055.1
50°	7412.6	6923.8	3373.7	1445.1	1320.9	1326.2	1267.4	1160.6	1057.8	1005.7	997.7
52.5°	9218.3	8343.5	3444.5	1311.5	1215.4	1235.4	1206.1	1107.2	1016.4	972.3	964.3
55°	10970.5	9620.3	3487.2	1207.4	1116.6	1154.0	1158.0	1075.1	992.4	948.3	943.0
57.5°	12393.0	10581.9	3297.6	1112.6	1031.1	1088.5	1117.9	1056.4	980.3	947.0	941.6
60°	13382.6	11036.0	2758.0	1028.4	968.3	1036.5	1103.2	1057.8	1009.7	1013.8	1016.4
62.5°	13697.9	10834.4	2068.8	965.6	925.6	1019.1	1127.2	1112.6	1063.2	1093.9	1099.2
65°	13175.6	10000.9	1499.8	916.2	888.2	1031.1	1199.4	1152.7	1044.4	1067.2	1067.2
67.5°	11427.3	8615.9	1167.3	870.8	845.4	1053.8	1271.5	1148.6	1000.4	1027.1	1003.0
70°	9064.7	6664.6	972.3	820.0	800.0	1020.4	1278.2	1107.2	948.3	953.6	908.2
72.5°	6015.5	4382.1	836.1	772.0	730.5	917.5	1223.4	1053.8	897.6	866.8	821.4
75°	2947.7	2185.0	729.2	711.9	639.7	798.7	1148.6	1003.0	842.7	794.7	769.3
77.5°	1141.9	929.6	622.4	635.7	556.9	703.8	1049.8	930.9	770.6	705.2	685.1
80°	554.3	527.6	510.2	530.2	458.1	599.7	958.9	868.1	703.8	631.7	602.4
82.5°	344.6	325.9	391.3	412.7	352.6	547.6	909.5	814.7	619.7	523.5	499.5
85°	175.0	187.0	261.8	281.8	252.4	435.4	749.3	611.7	447.4	371.3	374.0
87.5°	66.8	89.5	137.6	148.2	134.9	229.7	412.7	356.6	287.1	195.0	180.3
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)