

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: P652422

Luminaire Tested: **GALN-SA5B-840-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P652422
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-SA5B-840-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 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: 23982.8 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

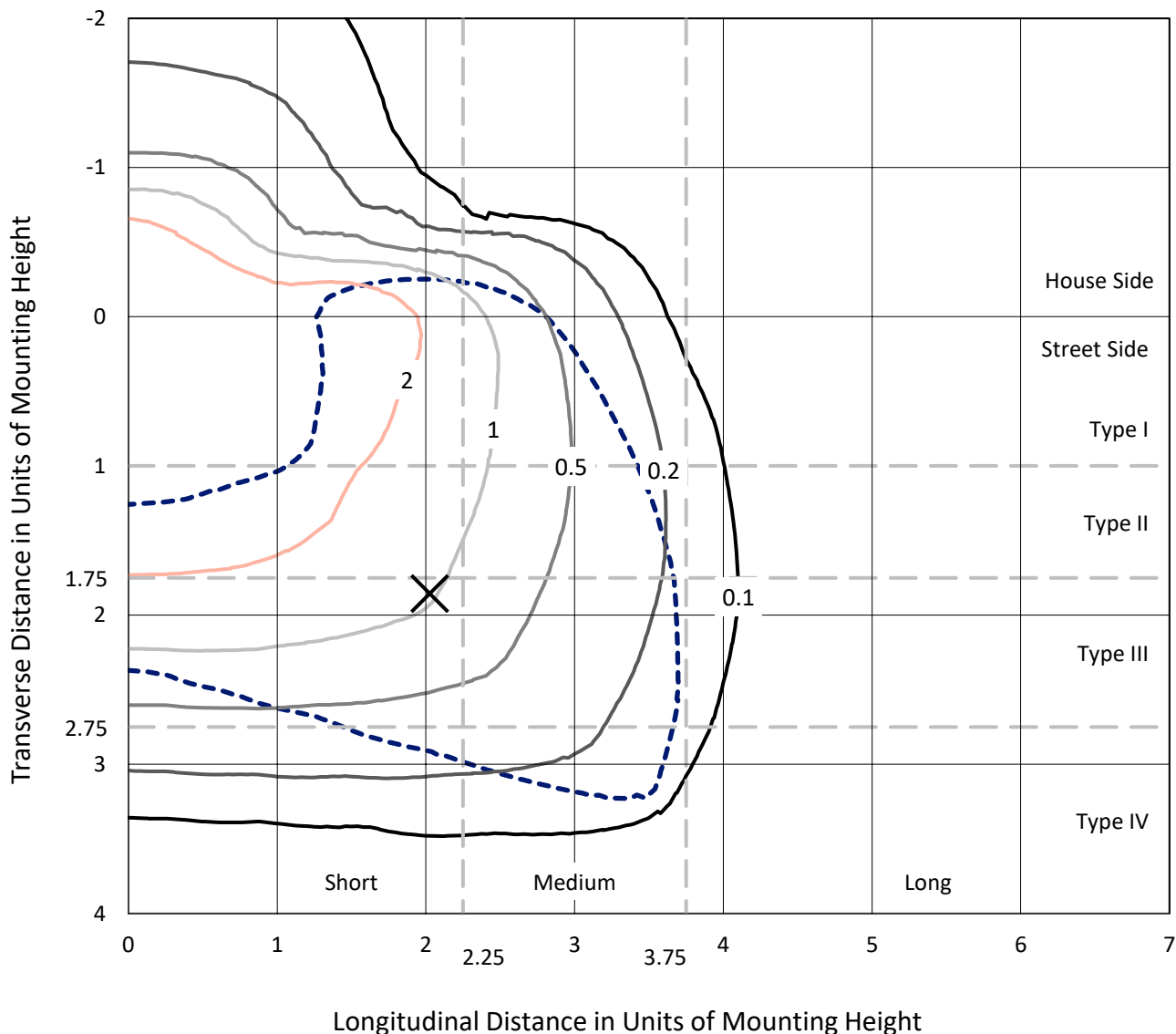
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

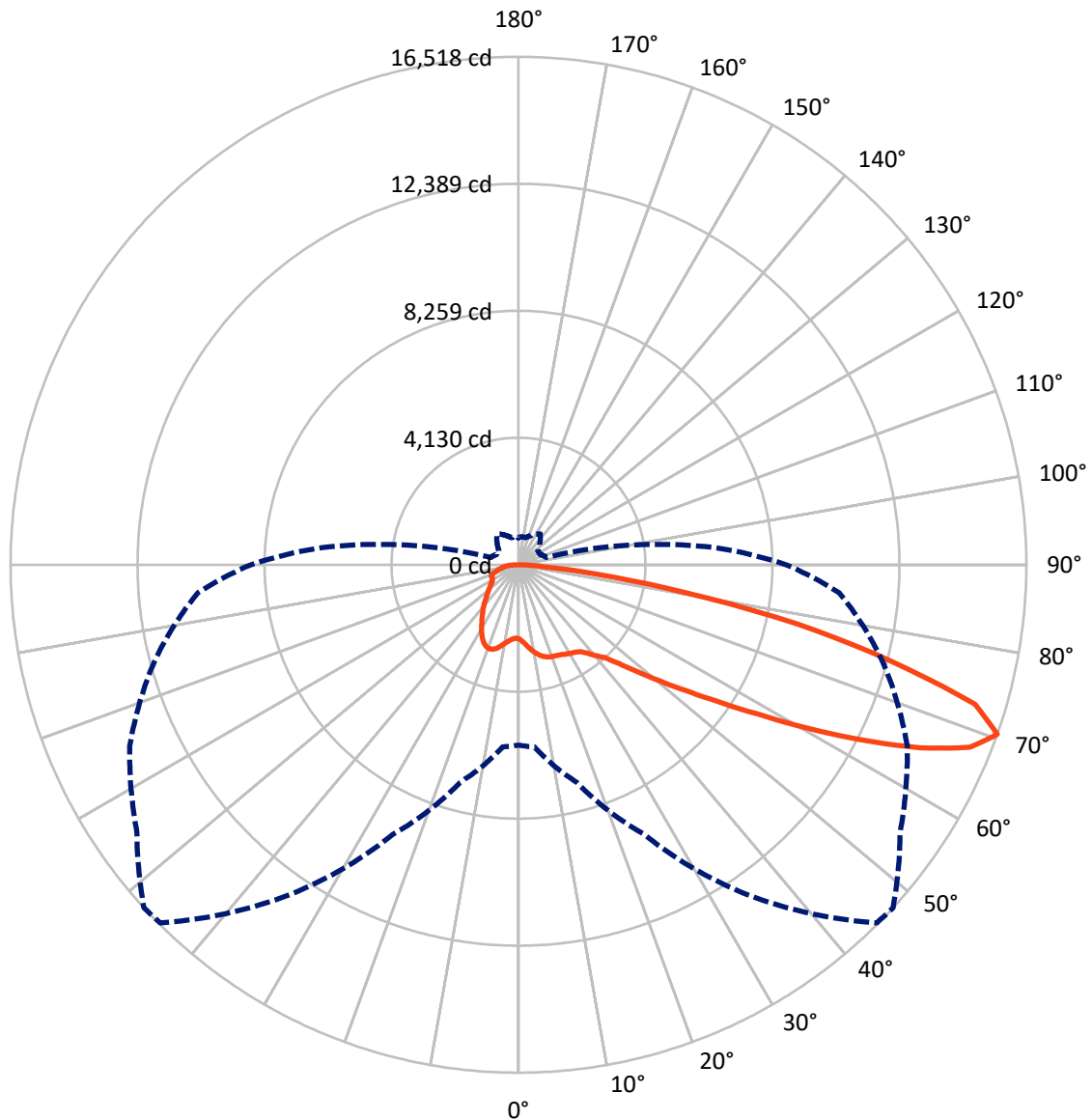
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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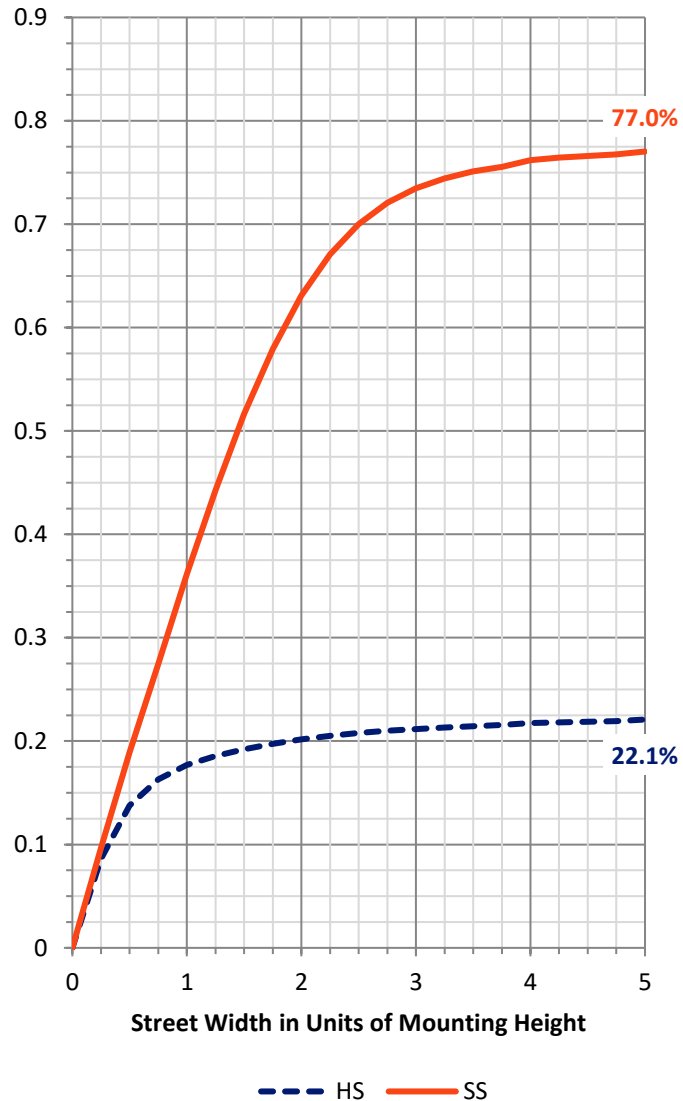
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5430.2	0.0	5430.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	18552.6	0.0	18552.6
	% Fixture	77.4	0.0	77.4
Total	Lumens	23982.8	0.0	23982.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.2	1.0
10°-20°	829.7	3.5
20°-30°	1379.7	5.8
30°-40°	1955.5	8.2
40°-50°	2886.8	12.0
50°-60°	5000.0	20.8
60°-70°	7062.7	29.4
70°-80°	4060.0	16.9
80°-90°	560.2	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°	23982.8	100.0
0°-180°	23982.8	100.0

Coefficient of Utilization



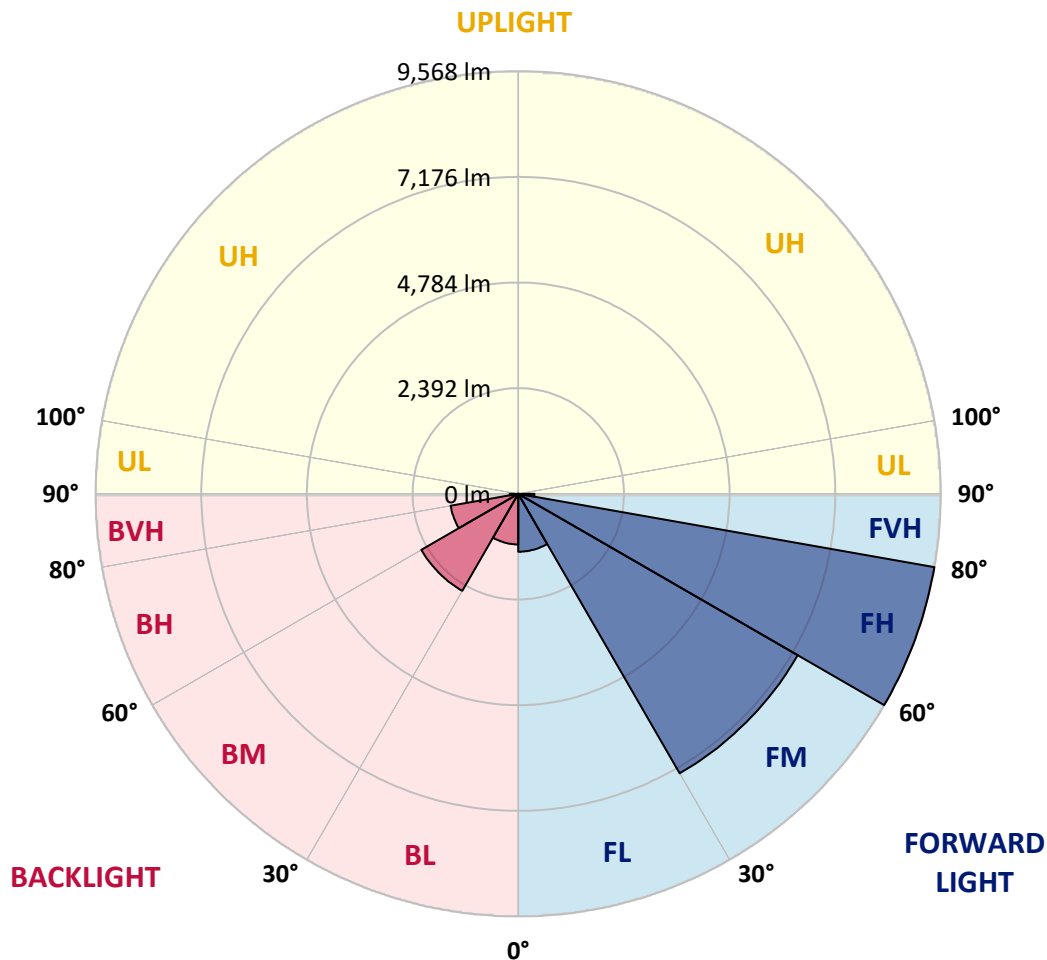
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1311.5	5.5			
FM (30°-60°)	7307.1	30.5			
FH (60°-80°)	9568.1	39.9			G4/12000
FVH (80°-90°)	365.9	1.5			G3/500
BL (0°-30°)	1146.1	4.8	B3/2500		
BM (30°-60°)	2535.3	10.6	B3/5000		
BH (60°-80°)	1554.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	194.3	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°	2407.6	2407.6	2407.6	2407.6	2407.6	2407.6	2407.6	2407.6	2407.6	2407.6	2407.6
2.5°	2562.9	2553.9	2552.6	2533.3	2523.1	2503.8	2496.2	2478.2	2456.4	2434.5	2414.0
5°	2764.4	2764.4	2755.4	2728.5	2686.1	2642.4	2623.2	2588.5	2527.0	2476.9	2434.5
7.5°	2971.0	2973.5	2955.6	2915.8	2855.4	2784.9	2766.9	2715.6	2628.3	2555.2	2492.3
10°	3149.4	3149.4	3125.0	3071.1	2995.4	2918.4	2900.4	2842.7	2745.1	2654.0	2571.9
12.5°	3285.4	3285.4	3253.3	3182.8	3100.6	3031.3	3010.8	2955.6	2864.4	2763.1	2659.2
15°	3373.9	3367.5	3331.6	3252.1	3172.5	3112.1	3098.0	3051.8	2968.4	2865.7	2749.0
17.5°	3377.8	3375.3	3340.6	3273.8	3204.5	3163.5	3154.5	3123.7	3058.2	2960.7	2837.5
20°	3303.4	3308.5	3285.4	3237.9	3204.5	3186.5	3182.8	3172.5	3126.2	3035.2	2912.0
22.5°	3223.8	3232.8	3210.9	3185.3	3182.8	3200.7	3203.3	3205.8	3176.3	3087.7	2974.9
25°	3204.5	3210.9	3189.2	3166.0	3180.2	3227.7	3237.9	3248.2	3225.1	3150.6	3049.3
27.5°	3302.1	3297.0	3254.6	3204.5	3213.5	3277.7	3291.8	3303.4	3291.8	3227.7	3141.6
30°	3578.0	3561.3	3476.6	3330.4	3284.1	3329.0	3343.1	3375.3	3375.3	3327.8	3241.8
32.5°	4040.0	4008.0	3852.6	3565.2	3404.8	3377.8	3391.9	3444.6	3471.5	3434.3	3340.6
35°	4600.9	4567.5	4345.4	3959.2	3625.5	3475.3	3471.5	3530.5	3602.4	3519.0	3397.1
37.5°	5164.2	5129.6	4862.7	4428.9	3947.7	3680.6	3657.6	3678.1	3708.9	3556.2	3475.3
40°	5727.6	5686.6	5453.0	4953.7	4341.6	3952.8	3892.4	3800.1	3787.2	3678.1	3626.8
42.5°	6285.9	6248.7	6130.6	5542.9	4813.9	4218.4	4126.0	3966.8	4015.6	3950.2	3905.3
45°	6849.3	6851.9	6726.1	6203.8	5383.7	4708.7	4584.1	4335.2	4450.7	4426.4	4452.0
47.5°	7348.5	7342.1	7297.2	6845.4	6090.9	5340.1	5179.6	4890.9	5088.6	5178.4	5374.7
50°	7832.3	7828.5	7831.1	7573.1	6912.2	6090.9	5913.7	5610.8	6056.2	6368.1	6719.7
52.5°	8525.4	8547.2	8391.9	8323.9	7910.6	6977.6	6782.6	6469.4	7199.6	7691.2	8377.8
55°	9221.0	9203.0	9081.0	9151.7	8955.3	8027.4	7823.4	7574.4	8472.7	9010.5	10042.3
57.5°	9630.4	9636.8	9761.2	10106.5	10245.1	9336.4	9151.7	8959.2	9903.7	10284.8	11523.3
60°	9998.6	10028.2	10386.3	11038.2	11414.2	10944.5	10780.2	10592.8	11216.6	11368.0	12809.2
62.5°	10114.2	10205.3	10830.3	11805.6	12553.9	12759.1	12555.1	12141.9	12466.6	12407.5	13680.6
65°	9537.9	9662.4	10782.8	12093.1	13571.6	14481.4	14351.8	13584.3	13531.8	13176.3	13823.1
67.5°	8021.0	8145.5	9584.1	11489.9	13992.5	15972.7	15843.1	14636.8	14178.6	13248.1	12745.0
70°	5868.8	5947.1	7322.8	9673.9	13146.8	16473.3	16518.2	15150.1	13947.6	12271.5	10464.6
72.5°	3381.7	3554.9	4518.7	6805.6	10740.4	15207.8	15519.6	14082.3	12487.1	10237.3	7316.4
75°	1454.1	1457.9	2089.3	3753.8	7274.1	12224.0	12525.6	11673.4	9806.1	7079.0	3906.5
77.5°	691.7	704.6	918.9	1676.0	4004.1	8445.8	9259.4	8246.8	6271.8	3400.9	1475.9
80°	449.2	458.2	562.1	831.6	1963.6	4897.3	5464.6	4757.5	2766.9	1215.3	636.6
82.5°	272.1	274.7	376.0	508.2	1080.6	2217.6	2614.2	2064.9	1180.7	727.6	374.7
85°	165.6	166.9	228.4	314.4	655.8	766.2	786.7	780.3	693.0	476.1	200.2
87.5°	79.6	82.2	118.1	148.9	257.9	237.4	224.5	260.5	327.2	256.7	86.0
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°	2407.6	2407.6	2407.6	2407.6	2407.6	2407.6	2407.6	2407.6	2407.6	2407.6	2407.6
2.5°	2405.0	2401.1	2392.2	2388.4	2385.7	2387.0	2385.7	2385.7	2387.0	2387.0	2387.0
5°	2416.5	2410.1	2396.0	2396.0	2403.7	2421.7	2438.4	2451.2	2465.3	2464.0	2464.0
7.5°	2466.7	2455.0	2438.4	2443.5	2462.8	2491.0	2520.6	2548.7	2577.0	2579.5	2578.3
10°	2539.7	2528.2	2510.2	2516.7	2547.5	2589.9	2627.0	2668.1	2698.9	2707.9	2705.3
12.5°	2623.2	2600.1	2584.7	2602.6	2651.4	2707.9	2743.8	2774.6	2796.4	2809.3	2804.1
15°	2707.9	2686.1	2668.1	2705.3	2764.4	2817.0	2834.9	2840.1	2843.9	2856.8	2854.2
17.5°	2790.0	2760.5	2754.1	2802.9	2859.3	2882.4	2872.2	2850.3	2833.7	2843.9	2842.7
20°	2863.2	2840.1	2837.5	2886.3	2908.1	2886.3	2842.7	2804.1	2774.6	2777.2	2775.9
22.5°	2932.5	2914.5	2917.1	2937.6	2903.0	2828.5	2756.6	2704.1	2671.9	2678.3	2682.2
25°	3009.5	2991.5	2997.9	2964.5	2850.3	2720.7	2616.8	2571.9	2559.0	2571.9	2580.9
27.5°	3109.6	3098.0	3094.2	2965.9	2756.6	2561.6	2443.5	2426.9	2438.4	2466.7	2480.7
30°	3217.4	3217.4	3196.8	2944.0	2628.3	2370.4	2267.7	2270.3	2310.1	2349.8	2364.0
32.5°	3321.4	3343.1	3279.0	2885.0	2462.8	2184.2	2106.0	2108.6	2143.2	2192.0	2204.8
35°	3407.3	3470.2	3349.5	2777.2	2267.7	2027.7	1968.7	1934.0	1935.3	1972.6	1982.8
37.5°	3525.4	3642.2	3390.7	2616.8	2059.8	1894.3	1827.5	1767.2	1727.4	1712.0	1712.0
40°	3730.8	3902.7	3400.9	2379.4	1863.4	1767.2	1672.2	1600.3	1523.4	1454.1	1441.2
42.5°	4078.5	4295.4	3380.4	2106.0	1686.4	1627.3	1534.9	1446.4	1339.8	1242.3	1234.6
45°	4694.5	4806.1	3325.1	1822.4	1528.5	1492.5	1402.7	1306.5	1193.5	1106.3	1099.9
47.5°	5681.5	5523.6	3252.1	1570.8	1384.7	1374.4	1305.1	1193.5	1080.6	1020.3	1013.8
50°	7122.7	6652.9	3241.8	1388.6	1269.2	1274.4	1217.9	1115.3	1016.4	966.4	958.7
52.5°	8857.7	8017.2	3309.8	1260.2	1167.9	1187.1	1158.9	1063.9	976.7	934.3	926.6
55°	10541.5	9244.0	3350.9	1160.2	1072.9	1108.9	1112.6	1033.1	953.5	911.2	906.1
57.5°	11908.3	10168.0	3168.6	1069.1	990.8	1046.0	1074.2	1015.2	942.0	909.9	904.7
60°	12859.3	10604.4	2650.2	988.2	930.4	995.9	1060.1	1016.4	970.3	974.0	976.7
62.5°	13162.2	10410.7	1988.0	927.9	889.4	979.2	1083.1	1069.1	1021.6	1051.1	1056.2
65°	12660.3	9609.8	1441.2	880.4	853.4	990.8	1152.4	1107.5	1003.6	1025.4	1025.4
67.5°	10980.4	8279.0	1121.6	836.7	812.4	1012.6	1221.7	1103.7	961.3	986.9	963.8
70°	8710.2	6404.0	934.3	788.0	768.8	980.5	1228.2	1063.9	911.2	916.4	872.7
72.5°	5780.3	4210.7	803.4	741.8	702.0	881.7	1175.5	1012.6	862.4	832.9	789.3
75°	2832.4	2099.6	700.7	684.1	614.8	767.4	1103.7	963.8	809.8	763.6	739.2
77.5°	1097.3	893.2	598.0	610.9	535.1	676.3	1008.7	894.5	740.5	677.6	658.3
80°	532.6	507.0	490.2	509.5	440.2	576.3	921.5	834.2	676.3	607.0	578.8
82.5°	331.1	313.1	376.0	396.5	338.8	526.2	874.0	782.9	595.5	503.1	480.0
85°	168.1	179.6	251.5	270.8	242.5	418.4	720.0	587.8	429.9	356.8	359.4
87.5°	64.2	86.0	132.2	142.5	129.6	220.8	396.5	342.6	275.9	187.4	173.2
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)