

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: P652037

Luminaire Tested: **GALN-SA7A-840-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P652037
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-840-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 26807.7 lumens
Efficiency: N/A
Efficacy: 124.7 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

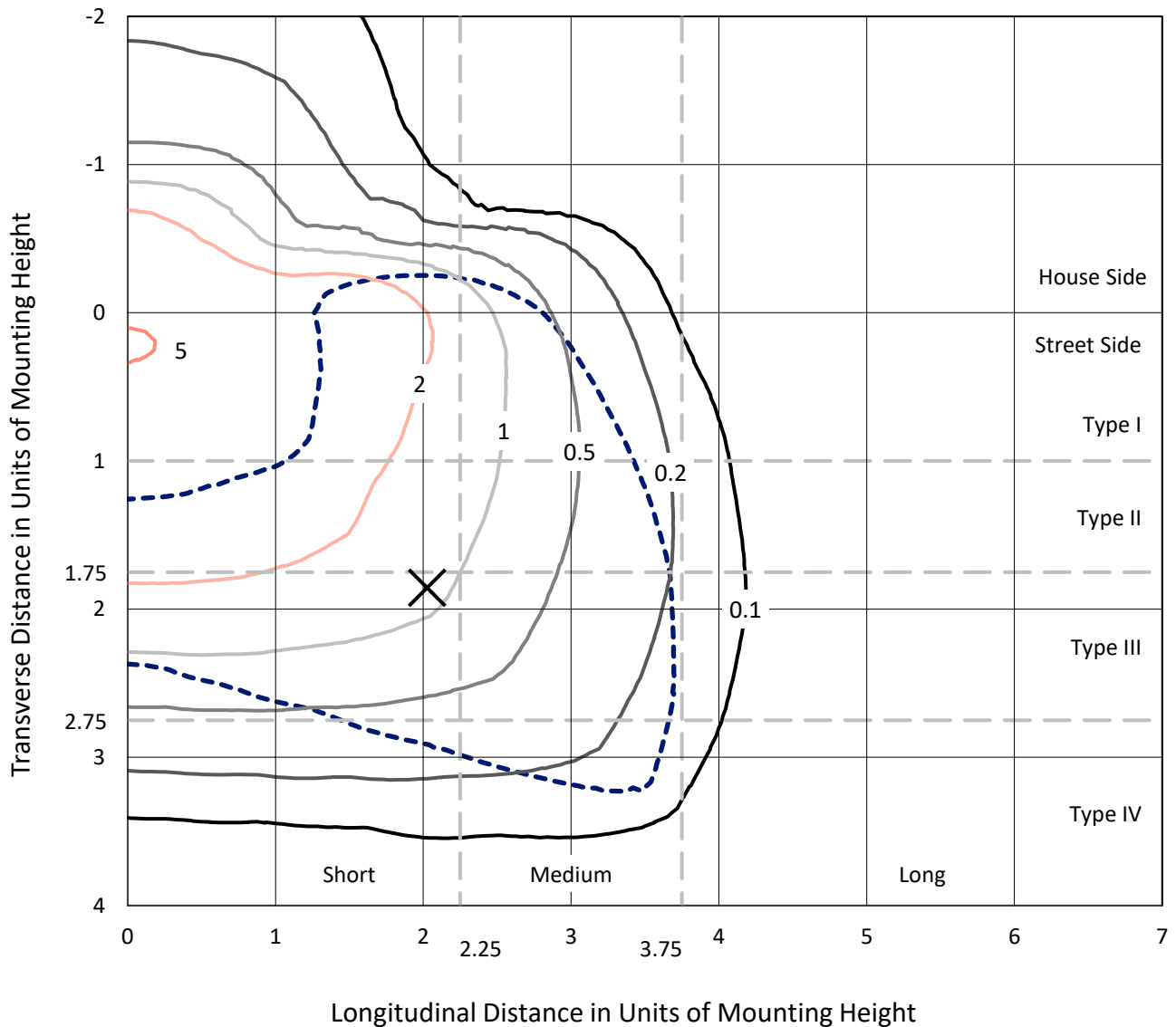
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

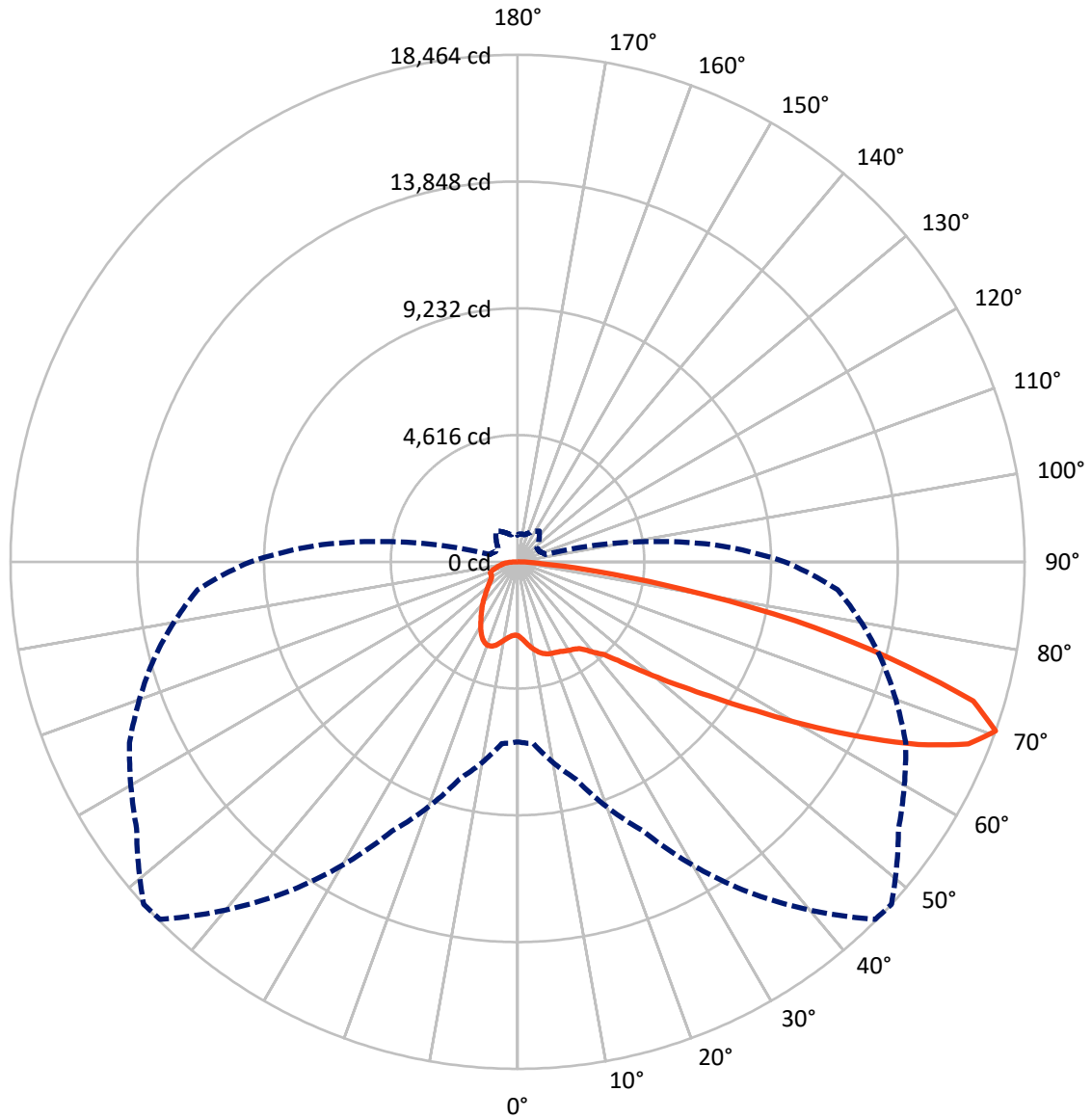
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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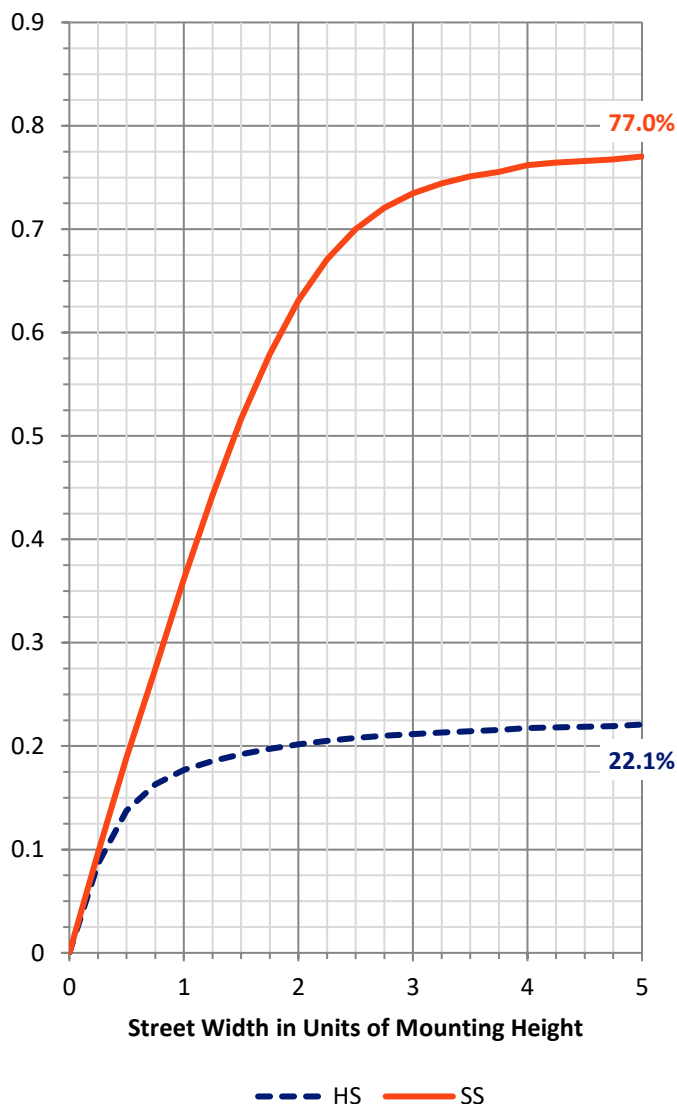
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6069.8	0.0	6069.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	20737.9	0.0	20737.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	26807.7	0.0	26807.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.4	1.0
10°-20°	927.4	3.5
20°-30°	1542.2	5.8
30°-40°	2185.9	8.2
40°-50°	3226.8	12.0
50°-60°	5589.0	20.8
60°-70°	7894.6	29.4
70°-80°	4538.2	16.9
80°-90°	626.2	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°	26807.7	100.0
0°-180°	26807.7	100.0

Coefficient of Utilization

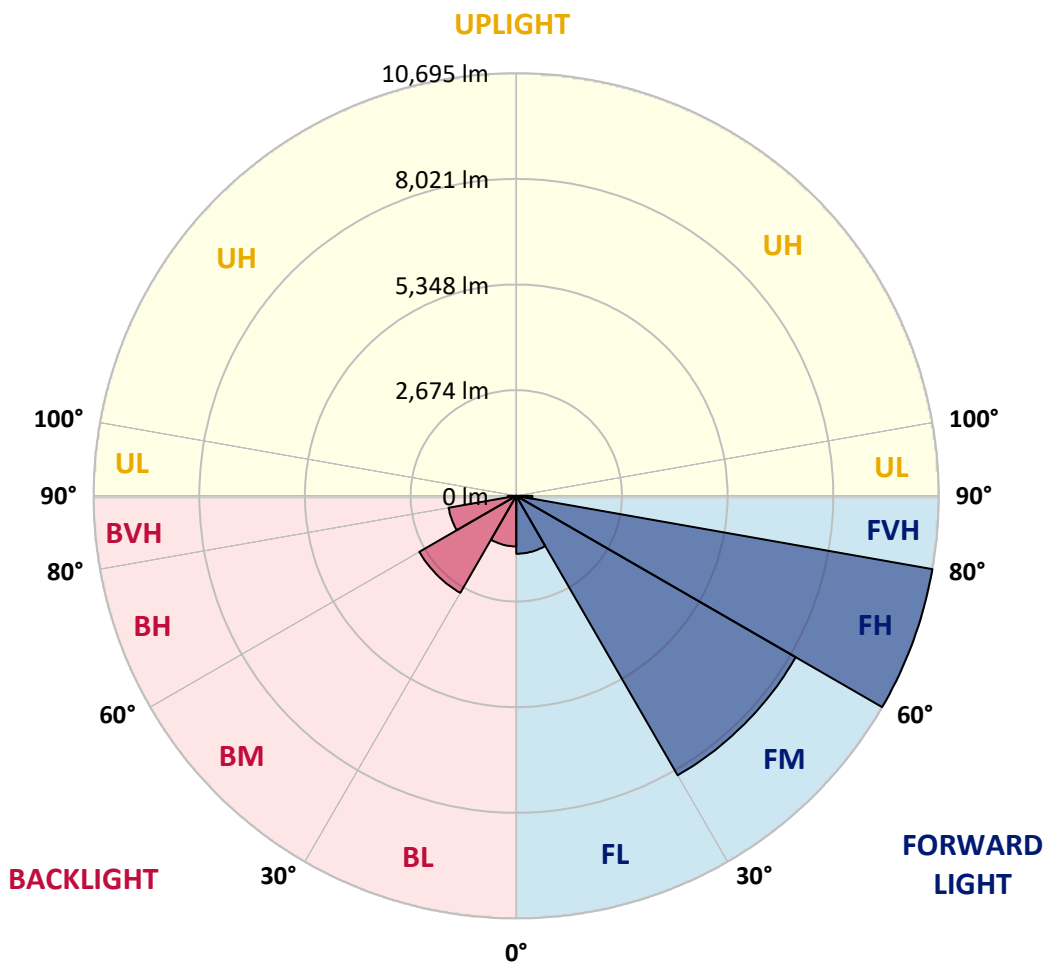


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1465.9	5.5			
FM (30°-60°)	8167.8	30.5			
FH (60°-80°)	10695.2	39.9			G4/12000
FVH (80°-90°)	409.0	1.5			G3/500
BL (0°-30°)	1281.1	4.8	B3/2500		
BM (30°-60°)	2833.9	10.6	B3/5000		
BH (60°-80°)	1737.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	217.1	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°	2691.2	2691.2	2691.2	2691.2	2691.2	2691.2	2691.2	2691.2	2691.2	2691.2	2691.2
2.5°	2864.8	2854.7	2853.3	2831.7	2820.3	2798.8	2790.2	2770.1	2745.7	2721.3	2698.3
5°	3090.0	3090.0	3079.9	3049.8	3002.5	2953.7	2932.1	2893.5	2824.6	2768.7	2721.3
7.5°	3320.9	3323.8	3303.7	3259.2	3191.8	3113.0	3092.9	3035.4	2937.9	2856.1	2785.8
10°	3520.3	3520.3	3493.1	3432.8	3348.2	3262.2	3242.1	3177.5	3068.5	2966.6	2874.8
12.5°	3672.4	3672.4	3636.5	3557.6	3465.8	3388.4	3365.4	3303.7	3201.9	3088.6	2972.3
15°	3771.4	3764.2	3724.0	3635.1	3546.2	3478.7	3463.0	3411.3	3318.1	3203.3	3072.8
17.5°	3775.7	3772.8	3734.0	3659.4	3582.0	3536.1	3526.1	3491.7	3418.5	3309.4	3171.7
20°	3692.5	3698.2	3672.4	3619.3	3582.0	3562.0	3557.6	3546.2	3494.5	3392.7	3254.9
22.5°	3603.5	3613.6	3589.2	3560.5	3557.6	3577.7	3580.6	3583.4	3550.4	3451.5	3325.2
25°	3582.0	3589.2	3564.8	3539.0	3554.7	3607.8	3619.3	3630.8	3604.9	3521.8	3408.4
27.5°	3691.1	3685.3	3638.0	3582.0	3592.1	3663.8	3679.5	3692.5	3679.5	3607.8	3511.7
30°	3999.5	3980.8	3886.1	3722.6	3671.0	3721.2	3737.0	3772.8	3772.8	3719.7	3623.6
32.5°	4515.9	4480.0	4306.4	3985.1	3805.8	3775.7	3791.5	3850.3	3880.4	3838.8	3734.0
35°	5142.8	5105.5	4857.3	4425.5	4052.5	3884.7	3880.4	3946.4	4026.7	3933.4	3797.2
37.5°	5772.5	5733.8	5435.4	4950.5	4412.6	4114.3	4088.4	4111.3	4145.8	3975.1	3884.7
40°	6402.3	6356.4	6095.3	5537.3	4853.0	4418.4	4350.9	4247.6	4233.3	4111.3	4054.0
42.5°	7026.3	6984.7	6852.7	6195.7	5380.9	4715.3	4612.0	4434.1	4488.7	4415.5	4365.3
45°	7656.0	7658.9	7518.4	6934.5	6017.9	5263.3	5124.1	4845.8	4974.9	4947.7	4976.4
47.5°	8214.1	8206.9	8156.7	7651.8	6808.2	5969.1	5789.8	5467.0	5687.9	5788.4	6007.8
50°	8754.9	8750.6	8753.5	8465.2	7726.4	6808.2	6610.3	6271.8	6769.5	7118.1	7511.2
52.5°	9529.5	9553.9	9380.3	9304.3	8842.4	7799.5	7581.4	7231.4	8047.7	8597.1	9364.6
55°	10307.0	10287.0	10150.7	10229.6	10010.1	8973.0	8744.9	8466.6	9470.8	10071.8	11225.2
57.5°	10764.7	10771.9	10911.0	11296.9	11451.8	10436.2	10229.6	10014.5	11070.3	11496.3	12880.6
60°	11176.4	11209.4	11609.6	12338.4	12758.6	12233.6	12050.0	11840.6	12537.8	12707.0	14318.0
62.5°	11305.5	11407.3	12105.9	13196.2	14032.5	14262.1	14033.9	13572.1	13935.0	13869.0	15292.1
65°	10661.4	10800.5	12052.9	13517.6	15170.1	16187.2	16042.3	15184.5	15125.6	14728.3	15451.3
67.5°	8965.8	9104.9	10713.1	12843.3	15640.7	17854.1	17709.3	16360.8	15848.6	14808.6	14246.3
70°	6560.1	6647.6	8185.4	10813.5	14695.3	18413.6	18463.8	16934.6	15590.5	13717.0	11697.1
72.5°	3780.0	3973.6	5051.0	7607.3	12005.5	16999.1	17347.7	15741.1	13957.9	11443.2	8178.2
75°	1625.3	1629.6	2335.4	4196.0	8130.9	13663.9	14001.0	13048.5	10961.3	7912.9	4366.7
77.5°	773.2	787.6	1027.1	1873.5	4475.7	9440.6	10350.1	9218.3	7010.5	3801.5	1649.7
80°	502.1	512.1	628.3	929.6	2194.8	5474.2	6108.2	5317.8	3092.9	1358.5	711.5
82.5°	304.1	307.0	420.3	568.1	1207.8	2478.8	2922.1	2308.1	1319.8	813.4	418.9
85°	185.0	186.4	255.3	351.5	733.0	856.4	879.3	872.2	774.6	532.2	223.8
87.5°	89.0	91.8	132.0	166.4	288.4	265.4	251.0	291.2	365.8	286.9	96.1
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°	2691.2	2691.2	2691.2	2691.2	2691.2	2691.2	2691.2	2691.2	2691.2	2691.2	2691.2
2.5°	2688.3	2684.0	2674.0	2669.7	2666.8	2668.2	2666.8	2666.8	2668.2	2668.2	2668.2
5°	2701.2	2694.1	2678.2	2678.2	2686.8	2706.9	2725.6	2740.0	2755.7	2754.3	2754.3
7.5°	2757.1	2744.3	2725.6	2731.3	2752.8	2784.4	2817.4	2849.0	2880.5	2883.4	2881.9
10°	2839.0	2826.0	2805.9	2813.1	2847.5	2894.9	2936.4	2982.4	3016.8	3026.8	3024.0
12.5°	2932.1	2906.3	2889.2	2909.2	2963.8	3026.8	3067.0	3101.4	3125.8	3140.2	3134.4
15°	3026.8	3002.5	2982.4	3024.0	3090.0	3148.8	3168.9	3174.6	3178.9	3193.3	3190.4
17.5°	3118.7	3085.6	3078.5	3133.0	3196.1	3222.0	3210.4	3186.0	3167.5	3178.9	3177.5
20°	3200.4	3174.6	3171.7	3226.2	3250.6	3226.2	3177.5	3134.4	3101.4	3104.3	3102.9
22.5°	3277.9	3257.8	3260.6	3283.6	3244.9	3161.7	3081.3	3022.6	2986.6	2993.9	2998.2
25°	3364.0	3343.9	3351.0	3313.8	3186.0	3041.2	2925.0	2874.8	2860.4	2874.8	2884.8
27.5°	3475.9	3463.0	3458.6	3315.2	3081.3	2863.4	2731.3	2712.7	2725.6	2757.1	2772.9
30°	3596.4	3596.4	3573.4	3290.8	2937.9	2649.6	2534.8	2537.7	2582.1	2626.6	2642.4
32.5°	3712.6	3737.0	3665.2	3224.8	2752.8	2441.6	2354.0	2356.9	2395.7	2450.2	2464.6
35°	3808.6	3878.9	3744.1	3104.3	2534.8	2266.6	2200.6	2161.8	2163.3	2204.8	2216.4
37.5°	3940.7	4071.2	3790.1	2925.0	2302.4	2117.4	2042.8	1975.3	1930.9	1913.7	1913.7
40°	4170.2	4362.4	3801.5	2659.6	2082.9	1975.3	1869.2	1788.9	1702.8	1625.3	1610.9
42.5°	4558.9	4801.4	3778.5	2354.0	1884.9	1819.0	1715.7	1616.7	1497.7	1388.7	1380.0
45°	5247.5	5372.3	3716.9	2037.0	1708.5	1668.4	1568.0	1460.3	1334.1	1236.5	1229.4
47.5°	6350.6	6174.2	3635.1	1755.8	1547.9	1536.3	1458.9	1334.1	1207.8	1140.5	1133.2
50°	7961.7	7436.6	3623.6	1552.1	1418.8	1424.5	1361.3	1246.6	1136.1	1080.2	1071.6
52.5°	9901.1	8961.5	3699.6	1408.7	1305.4	1326.9	1295.4	1189.3	1091.7	1044.4	1035.7
55°	11783.2	10332.9	3745.6	1296.8	1199.3	1239.5	1243.8	1154.8	1065.9	1018.5	1012.8
57.5°	13311.0	11365.8	3541.9	1195.0	1107.4	1169.2	1200.7	1134.7	1052.9	1017.1	1011.3
60°	14374.0	11853.5	2962.3	1104.6	1040.1	1113.2	1184.9	1136.1	1084.5	1088.8	1091.7
62.5°	14712.5	11636.9	2222.1	1037.1	994.1	1094.6	1210.7	1195.0	1141.9	1174.9	1180.6
65°	14151.6	10741.8	1610.9	984.1	953.9	1107.4	1288.2	1238.0	1121.8	1146.2	1146.2
67.5°	12273.8	9254.1	1253.8	935.3	908.0	1131.8	1365.7	1233.7	1074.5	1103.1	1077.3
70°	9736.2	7158.3	1044.4	880.8	859.2	1096.0	1372.8	1189.3	1018.5	1024.3	975.5
72.5°	6461.1	4706.7	898.0	829.1	784.7	985.5	1314.1	1131.8	964.0	931.0	882.2
75°	3166.0	2346.9	783.2	764.6	687.1	857.8	1233.7	1077.3	905.2	853.5	826.3
77.5°	1226.5	998.4	668.5	682.8	598.2	756.0	1127.5	999.9	827.7	757.4	735.9
80°	595.3	566.7	548.0	569.5	492.1	644.1	1030.0	932.4	756.0	678.5	647.0
82.5°	370.1	350.0	420.3	443.3	378.7	588.2	976.9	875.1	665.7	562.3	536.5
85°	188.0	200.8	281.1	302.7	271.1	467.7	804.8	657.0	480.5	398.8	401.7
87.5°	71.7	96.1	147.8	159.2	144.9	246.7	443.3	383.0	308.4	209.4	193.7
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)