

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: P650882

Luminaire Tested: **GALN-SA4C-840-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P650882
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-SA4C-840-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23406.7 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

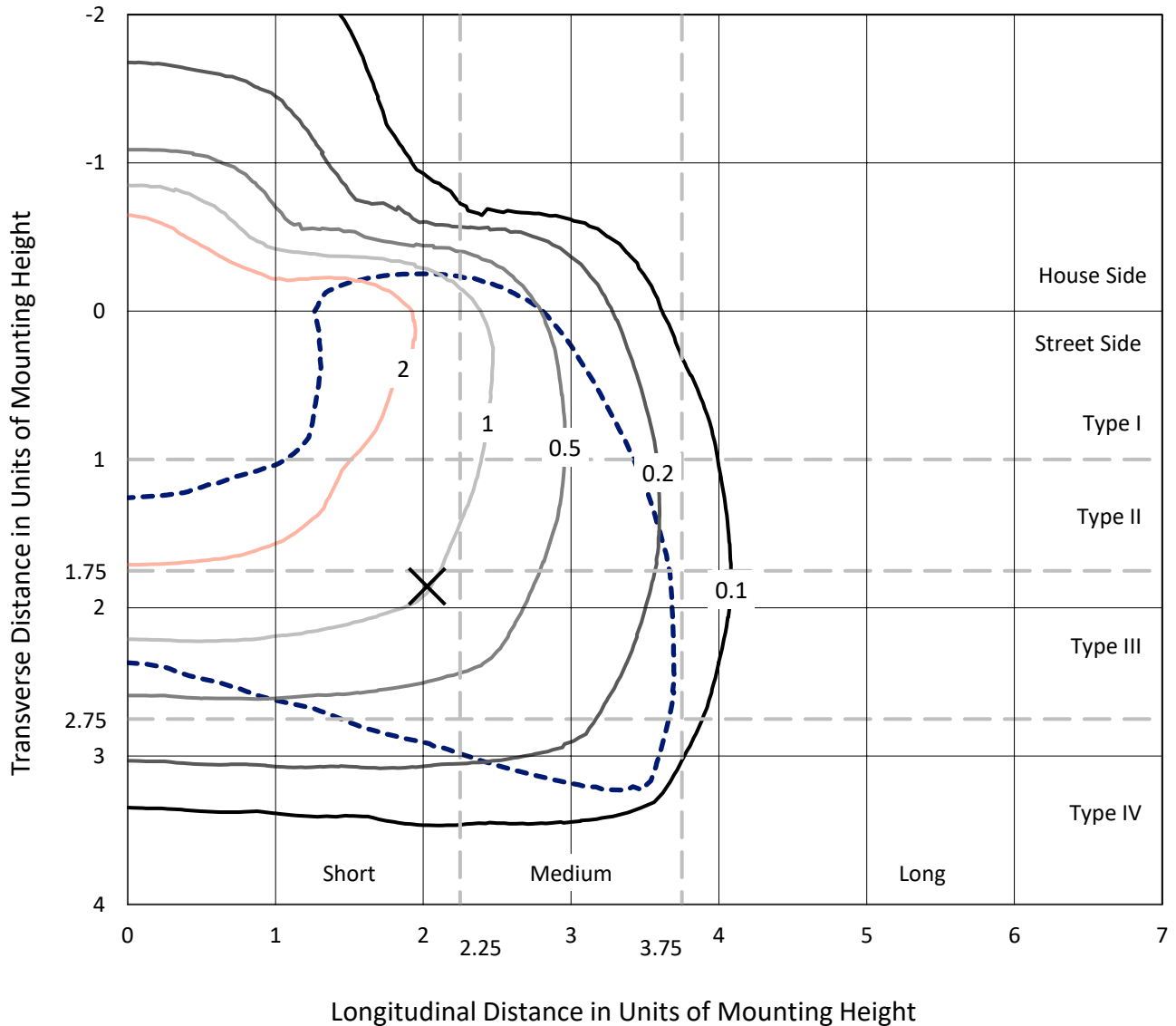
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

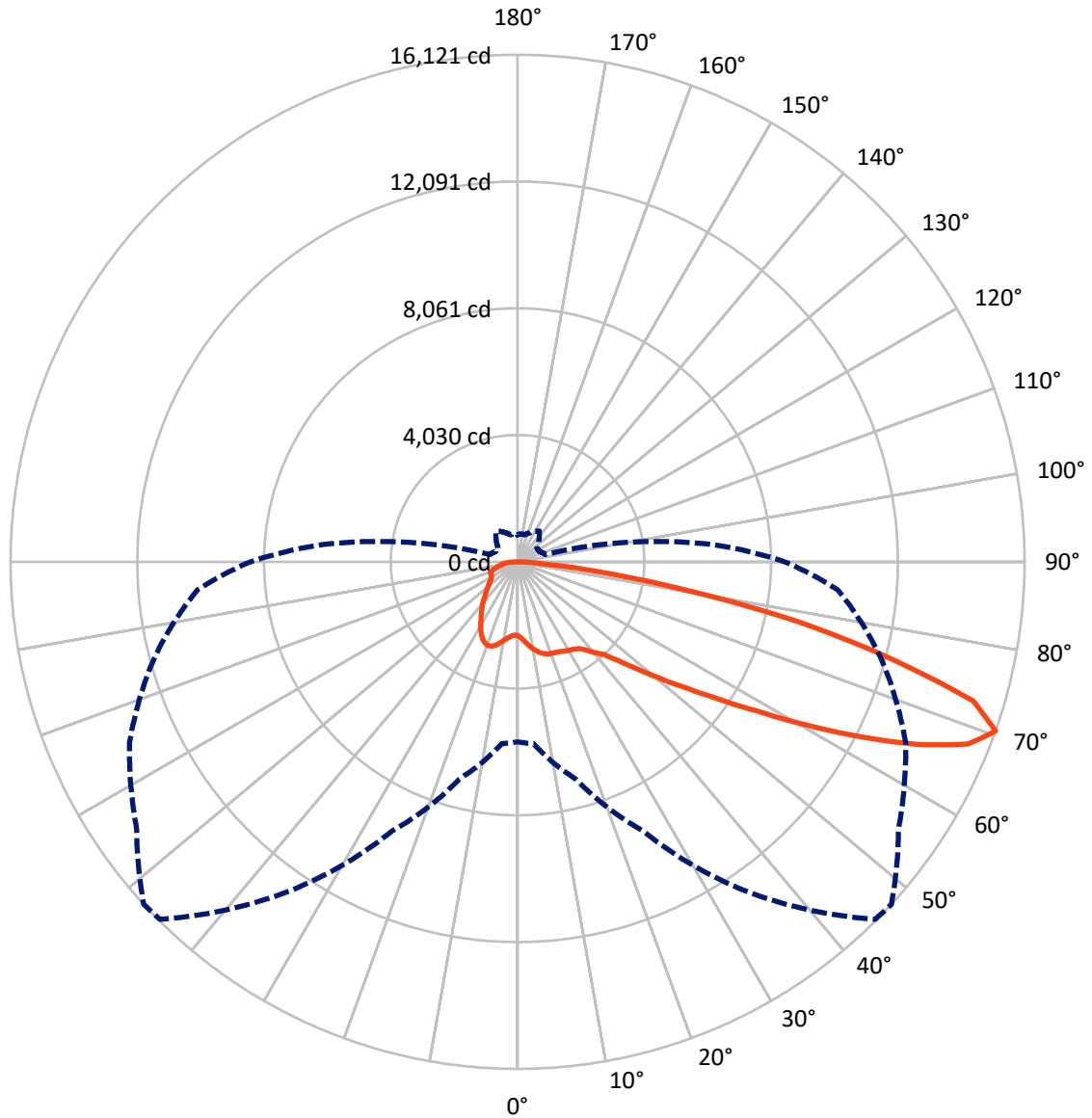
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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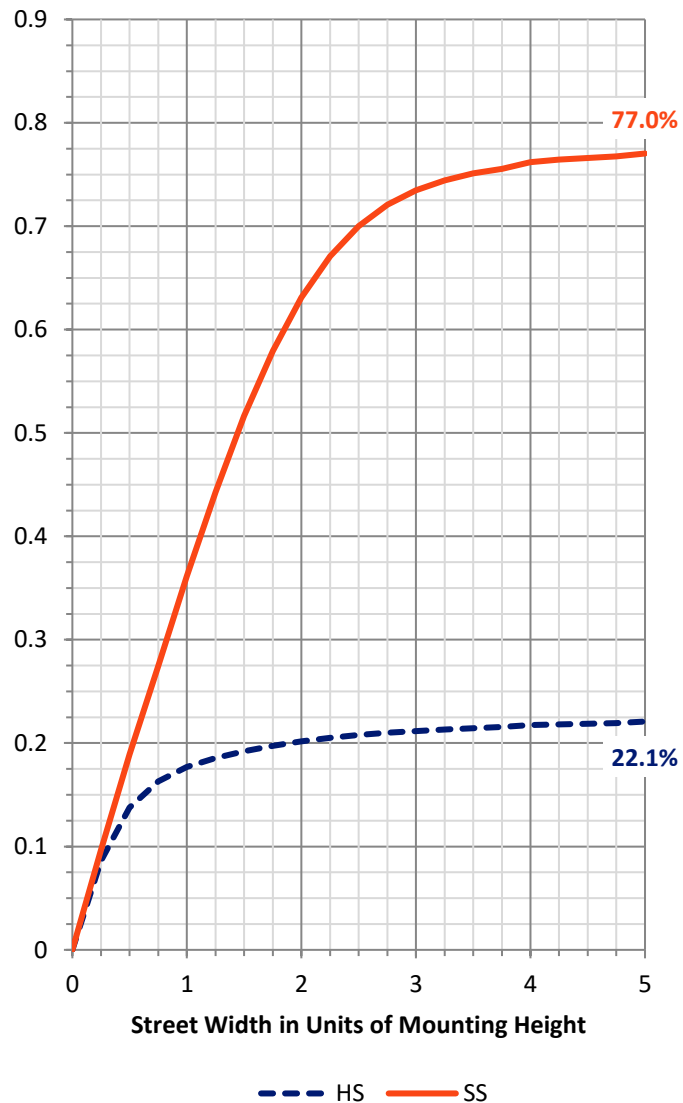
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5299.7	0.0	5299.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	18107.0	0.0	18107.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	23406.7	0.0	23406.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.2	1.0
10°-20°	809.7	3.5
20°-30°	1346.6	5.8
30°-40°	1908.6	8.2
40°-50°	2817.4	12.0
50°-60°	4879.9	20.8
60°-70°	6893.0	29.4
70°-80°	3962.5	16.9
80°-90°	546.7	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°	23406.7	100.0
0°-180°	23406.7	100.0

Coefficient of Utilization

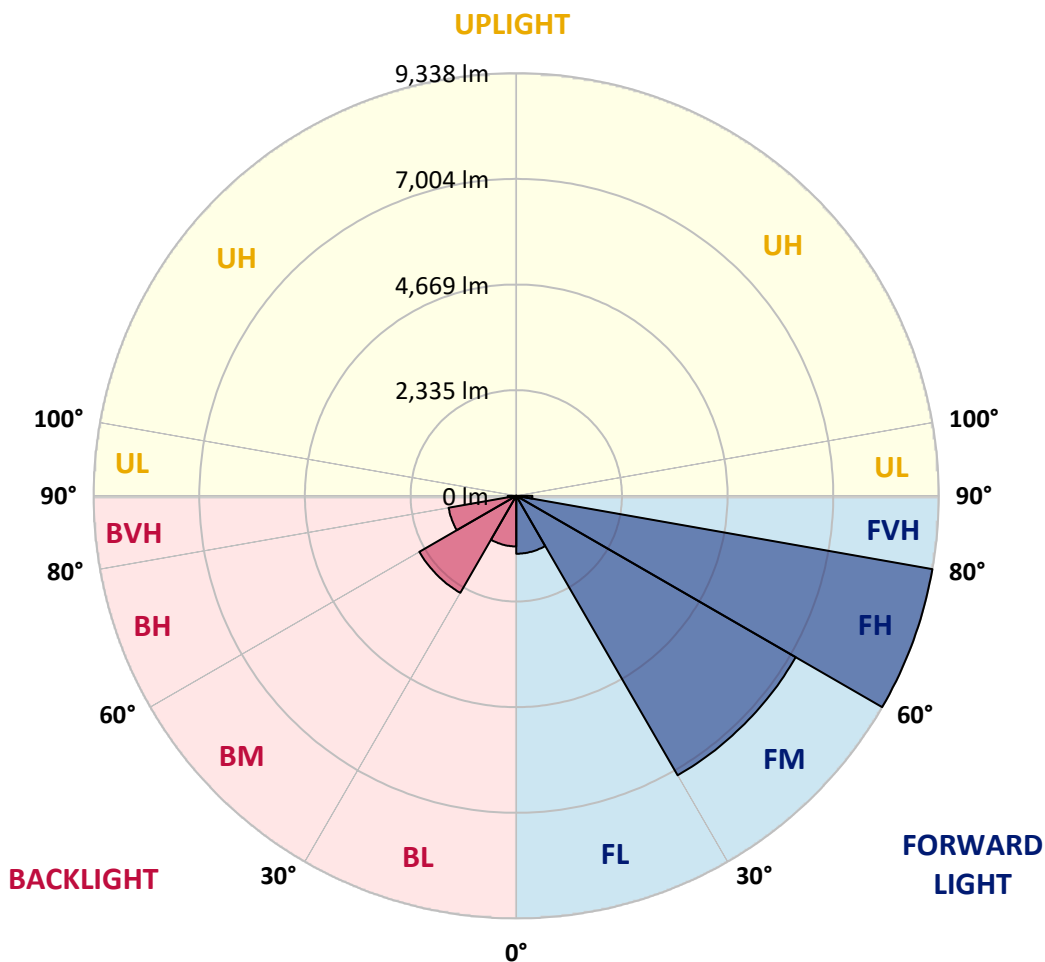


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1280.0	5.5			
FM (30°-60°)	7131.6	30.5			
FH (60°-80°)	9338.3	39.9			G4/12000
FVH (80°-90°)	357.1	1.5			G3/500
BL (0°-30°)	1118.5	4.8	B3/2500		
BM (30°-60°)	2474.4	10.6	B2/2500		
BH (60°-80°)	1517.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	189.6	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°	2349.8	2349.8	2349.8	2349.8	2349.8	2349.8	2349.8	2349.8	2349.8	2349.8	2349.8
2.5°	2501.3	2492.6	2491.3	2472.5	2462.4	2443.7	2436.2	2418.6	2397.4	2376.1	2356.0
5°	2697.9	2697.9	2689.2	2662.9	2621.6	2578.9	2560.2	2526.4	2466.2	2417.4	2376.1
7.5°	2899.6	2902.1	2884.5	2845.8	2786.9	2718.0	2700.5	2650.3	2565.2	2493.8	2432.4
10°	3073.7	3073.7	3049.9	2997.3	2923.4	2848.3	2830.7	2774.4	2679.2	2590.3	2510.0
12.5°	3206.5	3206.5	3175.2	3106.3	3026.1	2958.5	2938.5	2884.5	2795.7	2696.7	2595.2
15°	3292.9	3286.6	3251.6	3173.9	3096.2	3037.4	3023.6	2978.5	2897.1	2796.9	2683.0
17.5°	3296.6	3294.2	3260.3	3195.2	3127.6	3087.5	3078.7	3048.6	2984.8	2889.6	2769.3
20°	3224.1	3229.0	3206.5	3160.1	3127.6	3110.0	3106.3	3096.2	3051.1	2962.3	2842.0
22.5°	3146.3	3155.1	3133.8	3108.8	3106.3	3123.8	3126.3	3128.9	3100.0	3013.6	2903.4
25°	3127.6	3133.8	3112.5	3090.0	3103.8	3150.1	3160.1	3170.1	3147.6	3074.9	2976.0
27.5°	3222.8	3217.8	3176.5	3127.6	3136.3	3199.0	3212.8	3224.1	3212.8	3150.1	3066.2
30°	3492.1	3475.8	3393.1	3250.3	3205.2	3249.0	3262.8	3294.2	3294.2	3247.9	3163.9
32.5°	3942.9	3911.7	3760.1	3479.6	3323.0	3296.6	3310.4	3361.8	3388.1	3351.8	3260.3
35°	4490.4	4457.8	4241.1	3864.1	3538.4	3391.8	3388.1	3445.7	3515.9	3434.5	3315.5
37.5°	5040.2	5006.4	4745.8	4322.5	3852.8	3592.2	3569.7	3589.7	3619.8	3470.8	3391.8
40°	5590.0	5550.0	5322.0	4834.7	4237.3	3857.8	3799.0	3708.7	3696.2	3589.7	3539.7
42.5°	6134.9	6098.6	5983.4	5409.7	4698.2	4117.1	4026.9	3871.5	3919.1	3855.3	3811.5
45°	6684.8	6687.3	6564.5	6054.8	5254.4	4595.6	4474.0	4231.1	4343.8	4320.0	4345.0
47.5°	7172.0	7165.7	7121.9	6681.0	5944.5	5211.8	5055.3	4773.4	4966.3	5054.0	5245.6
50°	7644.2	7640.5	7642.9	7391.2	6746.2	5944.5	5771.7	5476.1	5910.7	6215.1	6558.3
52.5°	8320.6	8341.9	8190.3	8123.9	7720.6	6810.0	6619.7	6314.1	7026.7	7506.4	8176.5
55°	8999.5	8981.9	8863.0	8931.8	8740.2	7834.6	7635.4	7392.5	8269.2	8794.0	9801.1
57.5°	9399.0	9405.2	9526.8	9863.7	9999.0	9112.2	8931.8	8744.0	9665.8	10037.8	11246.5
60°	9758.5	9787.3	10136.7	10773.0	11140.1	10681.6	10521.2	10338.4	10947.1	11095.0	12501.5
62.5°	9871.2	9960.1	10570.1	11522.0	12252.3	12452.7	12253.5	11850.2	12167.1	12109.5	13352.0
65°	9308.9	9430.3	10523.8	11802.6	13245.5	14133.6	14007.1	13258.0	13206.7	12859.7	13491.1
67.5°	7828.4	7949.8	9353.9	11213.9	13656.4	15589.0	15462.5	14285.1	13838.0	12929.9	12438.9
70°	5727.8	5804.2	7147.0	9441.6	12831.0	16077.5	16121.4	14786.1	13612.5	11976.7	10213.2
72.5°	3300.4	3469.5	4410.2	6642.2	10482.5	14842.6	15146.9	13744.0	12187.2	9991.4	7140.7
75°	1419.1	1422.9	2039.1	3663.6	7099.4	11930.3	12224.7	11393.0	9570.6	6909.0	3812.7
77.5°	675.2	687.6	896.8	1635.8	3907.9	8242.9	9037.0	8048.8	6121.1	3319.2	1440.4
80°	438.4	447.2	548.6	811.6	1916.4	4779.7	5333.3	4643.2	2700.5	1186.1	621.2
82.5°	265.5	268.0	367.0	496.0	1054.6	2164.4	2551.4	2015.3	1152.3	710.2	365.8
85°	161.6	162.8	222.9	306.9	640.1	747.7	767.8	761.5	676.3	464.7	195.4
87.5°	77.6	80.1	115.2	145.3	251.8	231.7	219.2	254.2	319.4	250.5	83.9
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°	2349.8	2349.8	2349.8	2349.8	2349.8	2349.8	2349.8	2349.8	2349.8	2349.8	2349.8
2.5°	2347.2	2343.5	2334.7	2331.0	2328.5	2329.7	2328.5	2328.5	2329.7	2329.7	2329.7
5°	2358.5	2352.3	2338.5	2338.5	2346.0	2363.5	2379.8	2392.3	2406.1	2404.8	2404.8
7.5°	2407.4	2396.1	2379.8	2384.8	2403.6	2431.2	2460.0	2487.5	2515.1	2517.6	2516.4
10°	2478.8	2467.5	2449.9	2456.2	2486.2	2527.6	2564.0	2604.0	2634.1	2642.8	2640.3
12.5°	2560.2	2537.6	2522.6	2540.2	2587.8	2642.8	2677.9	2707.9	2729.3	2741.8	2736.8
15°	2642.8	2621.6	2604.0	2640.3	2697.9	2749.3	2766.8	2771.9	2775.6	2788.2	2785.6
17.5°	2723.0	2694.2	2687.9	2735.5	2790.6	2813.2	2803.1	2781.9	2765.6	2775.6	2774.4
20°	2794.4	2771.9	2769.3	2816.9	2838.2	2816.9	2774.4	2736.8	2707.9	2710.5	2709.2
22.5°	2862.0	2844.5	2847.0	2867.1	2833.2	2760.6	2690.4	2639.1	2607.8	2614.0	2617.8
25°	2937.2	2919.6	2925.9	2893.4	2781.9	2655.4	2553.9	2510.0	2497.5	2510.0	2518.9
27.5°	3034.9	3023.6	3019.9	2894.6	2690.4	2500.0	2384.8	2368.5	2379.8	2407.4	2421.2
30°	3140.1	3140.1	3120.0	2873.3	2565.2	2313.4	2213.3	2215.7	2254.6	2293.4	2307.2
32.5°	3241.6	3262.8	3200.3	2815.7	2403.6	2131.9	2055.4	2057.9	2091.7	2139.3	2151.9
35°	3325.5	3386.9	3269.1	2710.5	2213.3	1979.0	1921.3	1887.5	1888.8	1925.1	1935.1
37.5°	3440.7	3554.7	3309.2	2553.9	2010.3	1848.8	1783.6	1724.7	1685.9	1670.9	1670.9
40°	3641.1	3809.0	3319.2	2322.2	1818.7	1724.7	1632.0	1561.9	1486.7	1419.1	1406.6
42.5°	3980.5	4192.2	3299.2	2055.4	1645.8	1588.2	1498.0	1411.6	1307.7	1212.5	1204.9
45°	4581.8	4690.8	3245.3	1778.6	1491.8	1456.7	1369.0	1275.0	1164.9	1079.7	1073.5
47.5°	5545.0	5390.9	3173.9	1533.1	1351.5	1341.5	1273.9	1164.9	1054.6	995.7	989.5
50°	6951.5	6493.1	3163.9	1355.3	1238.8	1243.8	1188.7	1088.4	992.0	943.2	935.6
52.5°	8645.0	7824.6	3230.3	1230.0	1139.8	1158.6	1131.1	1038.4	953.2	911.8	904.3
55°	10288.3	9022.0	3270.4	1132.3	1047.1	1082.2	1086.0	1008.3	930.7	889.3	884.3
57.5°	11622.3	9923.8	3092.5	1043.3	967.0	1020.8	1048.4	990.8	919.4	888.0	883.0
60°	12550.4	10349.7	2586.5	964.5	908.1	971.9	1034.6	992.0	946.9	950.7	953.2
62.5°	12845.9	10160.5	1940.2	905.6	868.0	955.7	1057.1	1043.3	997.0	1025.9	1030.8
65°	12356.2	9379.0	1406.6	859.2	832.9	967.0	1124.8	1080.9	979.5	1000.8	1000.8
67.5°	10716.7	8080.1	1094.7	816.6	792.9	988.3	1192.4	1077.2	938.1	963.2	940.7
70°	8500.9	6250.1	911.8	769.1	750.3	957.0	1198.7	1038.4	889.3	894.3	851.7
72.5°	5641.4	4109.5	784.1	723.9	685.2	860.5	1147.3	988.3	841.7	812.9	770.3
75°	2764.4	2049.2	683.9	667.6	600.0	749.0	1077.2	940.7	790.4	745.3	721.5
77.5°	1070.9	871.8	583.7	596.2	522.3	660.1	984.5	873.0	722.7	661.4	642.5
80°	519.8	494.8	478.4	497.3	429.6	562.4	899.3	814.2	660.1	592.5	564.9
82.5°	323.1	305.6	367.0	387.0	330.7	513.5	852.9	764.0	581.2	491.0	468.4
85°	164.1	175.3	245.5	264.3	236.7	408.3	702.7	573.6	419.6	348.2	350.7
87.5°	62.7	83.9	129.0	139.0	126.5	215.5	387.0	334.5	269.3	182.8	169.1
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)