

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: P650867

Luminaire Tested: **GALN-SA4C-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-840-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20554 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

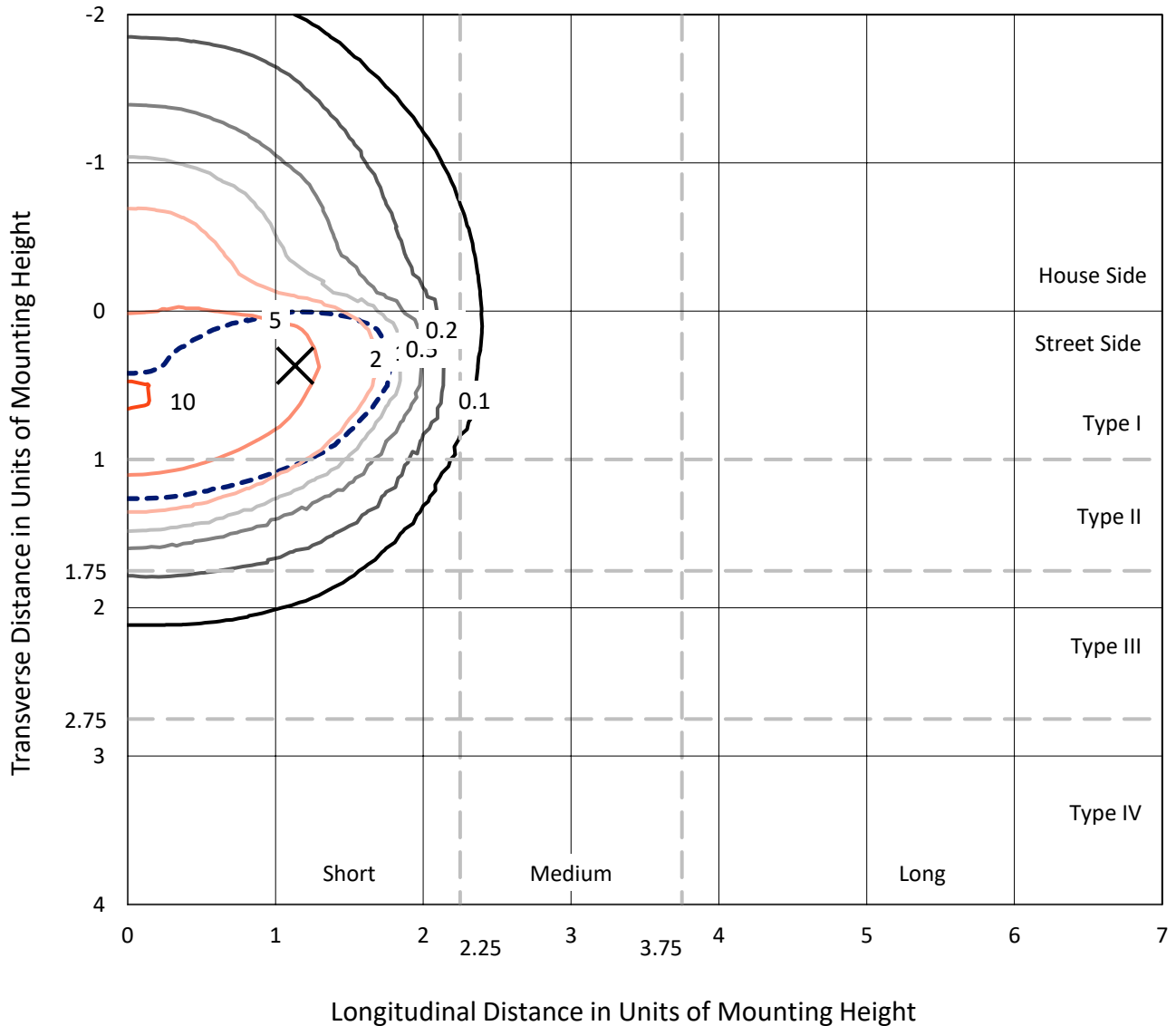
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

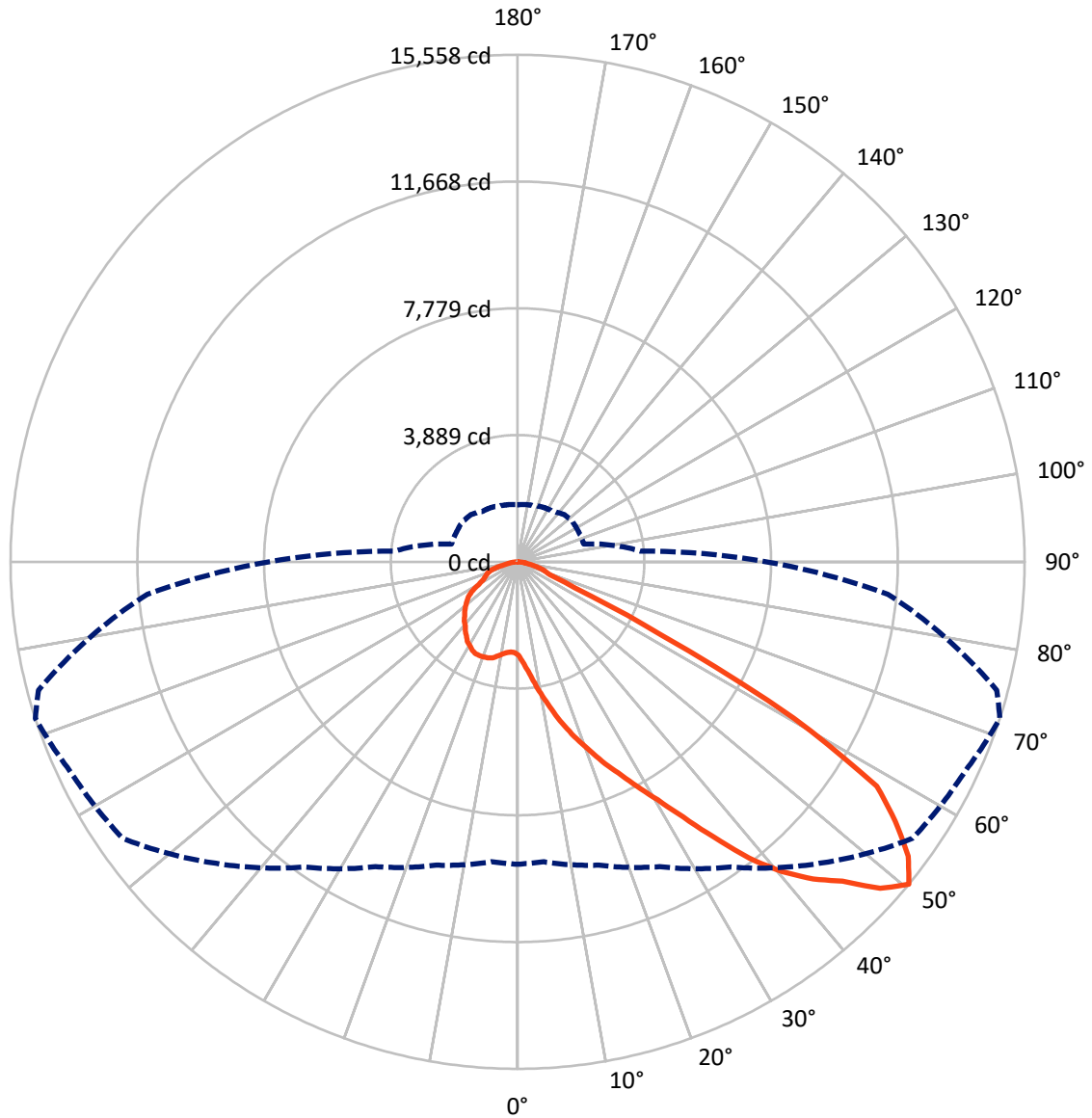
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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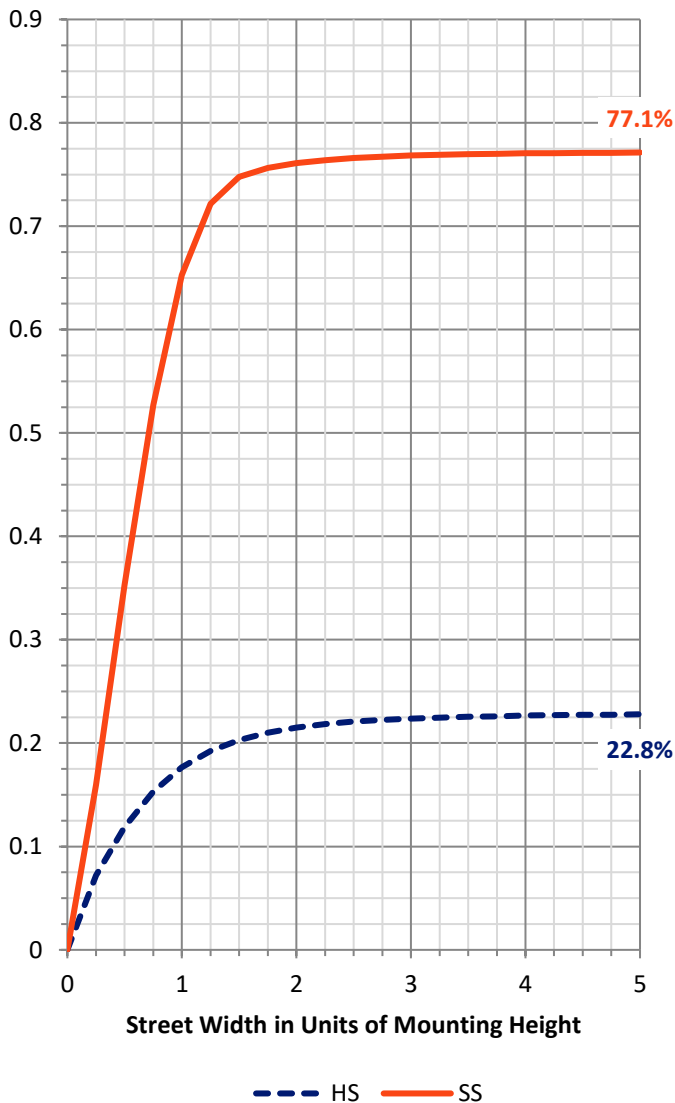
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4709.0	0.0	4709.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	15845.0	0.0	15845.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	20554.0	0.0	20554.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.6	1.6
10°-20°	1258.2	6.1
20°-30°	2439.5	11.9
30°-40°	4041.4	19.7
40°-50°	5654.9	27.5
50°-60°	4770.6	23.2
60°-70°	1454.1	7.1
70°-80°	510.1	2.5
80°-90°	88.7	0.4
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°	20554.0	100.0
0°-180°	20554.0	100.0



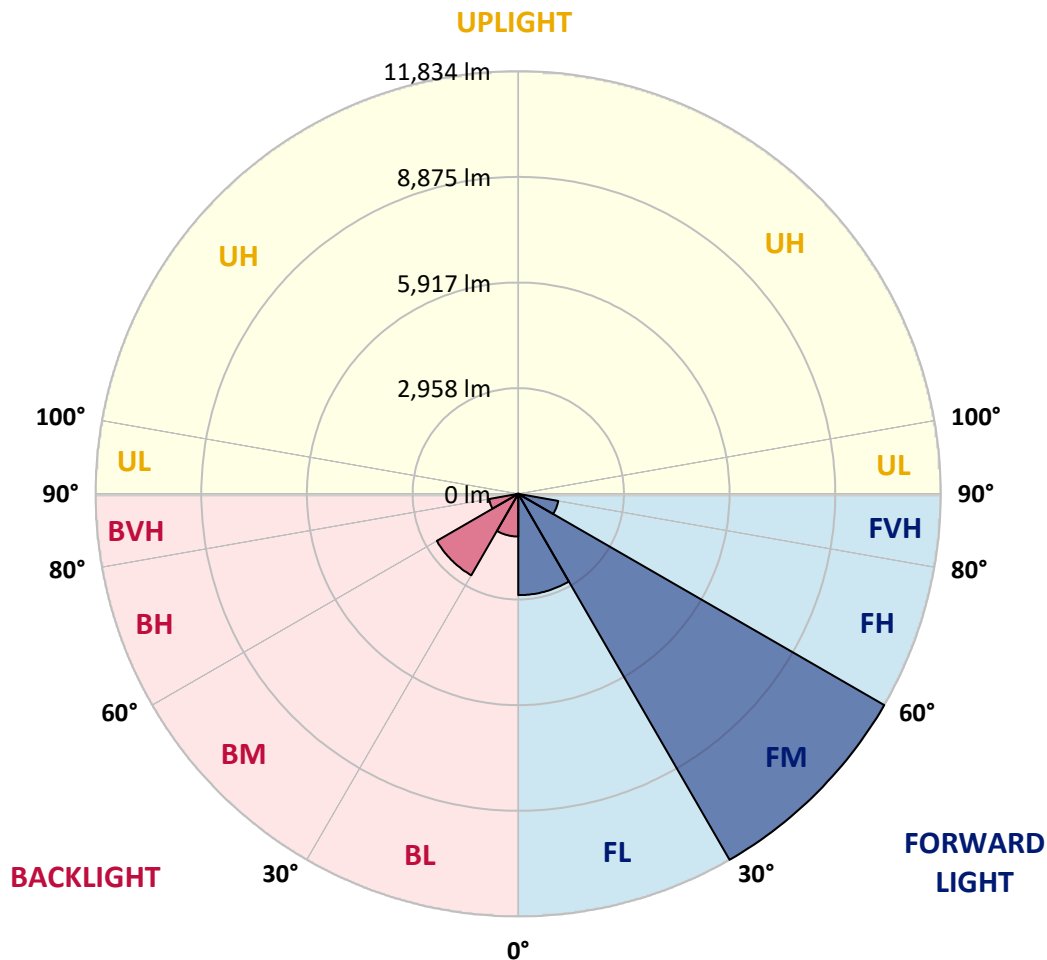
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2837.2	13.8			
FM (30°-60°)	11833.5	57.6			
FH (60°-80°)	1134.6	5.5			G1/1800
FVH (80°-90°)	39.7	0.2			G1/100
BL (0°-30°)	1197.1	5.8	B3/2500		
BM (30°-60°)	2633.4	12.8	B3/5000		
BH (60°-80°)	829.6	4.0	B2/1000		G2/1000
BVH (80°-90°)	49.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2861.3	2861.3	2861.3	2861.3	2861.3	2861.3	2861.3	2861.3	2861.3	2861.3	2861.3
2.5°	3680.3	3657.3	3588.7	3565.8	3484.4	3336.9	3286.0	3136.0	3072.4	3013.9	2945.3
5°	4654.3	4547.5	4539.9	4410.2	4222.0	4112.7	3787.1	3568.4	3367.4	3265.7	3077.5
7.5°	5274.9	5277.5	5277.5	5170.7	5020.6	4743.4	4450.9	4056.6	3754.1	3603.9	3283.5
10°	5865.0	5814.2	5786.2	5776.0	5674.3	5404.7	5091.8	4603.5	4188.9	4013.4	3438.7
12.5°	6282.1	6238.9	6302.5	6269.4	6195.6	6020.1	5725.1	5168.1	4649.3	4412.7	3687.9
15°	6480.5	6511.0	6561.9	6653.5	6620.4	6554.2	6228.7	5748.1	5145.2	4878.2	3909.1
17.5°	6785.7	6701.8	6762.8	6877.3	6968.9	6938.3	6752.6	6167.7	5636.1	5308.1	4206.8
20°	6999.4	6951.0	6981.6	7113.9	7182.5	7355.5	7258.8	6717.1	6106.7	5760.8	4557.7
22.5°	7609.8	7538.6	7439.4	7459.8	7485.2	7607.3	7630.1	7319.8	6653.5	6287.2	4890.9
25°	8362.7	8296.5	8179.5	8060.0	7986.2	7963.3	8042.1	7792.9	7177.4	6798.5	5249.5
27.5°	9191.8	9079.9	9006.1	8759.4	8561.0	8530.5	8492.3	8357.5	7798.0	7388.5	5654.0
30°	9998.0	9909.0	9809.8	9415.6	9209.5	9176.5	8988.3	9026.5	8472.0	8016.7	6111.7
32.5°	10608.5	10616.0	10389.7	10092.1	9898.8	9723.3	9654.7	9764.0	9336.7	8970.5	6623.0
35°	11101.9	11124.7	10908.5	10638.9	10430.4	10552.4	10521.9	10572.8	10369.4	9921.7	7218.1
37.5°	11582.5	11468.0	11236.6	11106.9	10997.6	11198.5	11457.9	11501.2	11539.3	11012.8	7909.9
40°	11661.4	11671.6	11536.8	11628.3	11491.0	11793.6	12396.4	12340.5	12495.6	12035.2	8660.2
42.5°	11549.5	11572.3	11625.7	11755.5	12086.1	12449.8	13345.1	13116.2	13304.4	12894.9	9390.1
45°	11366.4	11272.3	11338.4	11831.8	12404.1	13212.9	14212.4	14034.4	13973.3	13629.9	10259.9
47.5°	10491.4	10588.1	10794.1	11401.9	12261.6	13345.1	14827.8	14787.2	14970.3	14728.7	11051.0
50°	9278.2	9240.1	9636.9	10321.0	11429.9	13085.7	14794.8	15163.6	15557.8	15222.1	11404.5
52.5°	6948.5	7151.9	7492.8	8342.3	9924.2	11671.6	14072.5	14688.0	15008.5	14937.3	11119.6
55°	4392.4	4453.4	4659.5	5669.2	7093.5	9367.2	12063.2	13490.1	14062.4	14329.4	10857.6
57.5°	2133.9	2019.4	2271.2	3082.6	4097.4	6299.9	9303.6	11750.4	12994.1	13477.4	10288.0
60°	1114.0	1157.2	1256.5	1546.3	2118.6	3270.8	5798.9	7831.1	9731.0	10473.6	7798.0
62.5°	923.2	938.5	1004.7	1149.6	1409.0	1882.1	2960.5	3817.6	4962.2	5631.0	4435.7
65°	783.4	791.0	862.2	958.8	1124.2	1325.1	1523.5	1594.7	1930.4	1981.3	1576.9
67.5°	653.6	661.3	737.6	829.1	935.9	989.4	1040.2	1035.2	1073.3	1058.1	1055.5
70°	503.6	511.2	590.0	686.7	740.2	709.6	867.3	902.9	918.1	930.9	951.3
72.5°	363.7	379.0	440.0	508.6	480.7	551.9	714.7	768.1	788.4	796.1	821.5
75°	264.5	269.6	284.8	264.5	305.2	384.1	503.6	569.7	595.2	602.7	640.9
77.5°	117.0	119.5	122.1	152.6	195.9	239.1	300.2	353.6	389.1	399.3	409.5
80°	61.1	63.6	78.9	104.3	139.9	175.5	218.7	249.3	272.1	274.7	284.8
82.5°	38.2	40.7	55.9	73.8	99.2	129.7	160.2	185.7	203.4	206.0	208.6
85°	17.8	22.9	33.1	45.8	66.1	83.9	86.5	73.8	78.9	81.4	76.3
87.5°	5.0	7.7	10.2	7.7	10.2	10.2	12.7	15.2	15.2	15.2	17.8
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°	2861.3	2861.3	2861.3	2861.3	2861.3	2861.3	2861.3	2861.3	2861.3	2861.3	2861.3
2.5°	2907.1	2884.2	2795.1	2762.1	2675.6	2690.9	2645.1	2642.6	2632.4	2629.9	2627.3
5°	2978.3	2907.1	2800.3	2718.9	2670.5	2665.5	2632.4	2632.4	2642.6	2650.2	2632.4
7.5°	3095.3	3013.9	2833.3	2757.1	2713.8	2706.2	2683.3	2665.5	2688.3	2680.7	2660.3
10°	3230.1	3087.6	2896.9	2830.8	2759.6	2741.7	2741.7	2749.4	2711.2	2723.9	2703.6
12.5°	3380.1	3189.4	2978.3	2902.0	2818.0	2807.8	2802.8	2746.9	2767.2	2757.1	2706.2
15°	3570.9	3306.4	3082.6	2952.8	2881.7	2835.9	2769.7	2759.6	2746.9	2721.4	2698.5
17.5°	3776.9	3433.6	3130.9	2968.1	2861.3	2828.2	2777.4	2723.9	2685.8	2690.9	2673.1
20°	3952.4	3550.5	3148.7	2983.4	2846.0	2782.4	2703.6	2670.5	2629.9	2627.3	2624.8
22.5°	4160.9	3708.2	3174.1	2942.7	2800.3	2734.1	2680.7	2622.2	2594.2	2558.7	2576.4
25°	4410.2	3769.3	3179.2	2919.8	2767.2	2650.2	2622.2	2558.7	2548.5	2497.6	2507.8
27.5°	4590.8	3802.3	3138.5	2848.6	2690.9	2601.9	2551.0	2505.3	2487.4	2449.2	2439.1
30°	4832.4	3853.2	3052.1	2759.6	2614.6	2515.4	2484.9	2474.7	2423.8	2383.1	2378.1
32.5°	5107.1	3886.3	2996.1	2668.0	2535.8	2459.4	2474.7	2426.4	2362.8	2327.2	2317.0
35°	5325.8	3899.0	2856.2	2563.7	2482.3	2434.0	2416.2	2406.0	2314.4	2281.4	2256.0
37.5°	5659.0	3871.0	2739.2	2489.9	2423.8	2406.0	2390.8	2322.1	2217.8	2169.5	2133.9
40°	6048.1	3863.4	2589.2	2385.7	2367.9	2388.3	2342.4	2235.6	2090.6	2037.2	2011.8
42.5°	6422.0	3916.8	2495.1	2329.7	2306.9	2314.4	2250.9	2090.6	2019.4	1988.9	1948.3
45°	7047.7	4028.7	2339.9	2243.3	2233.1	2228.0	2151.7	1983.8	1943.1	1904.9	1897.4
47.5°	7612.3	3955.0	2240.7	2154.2	2164.4	2136.5	1973.7	1920.3	1874.5	1836.3	1823.6
50°	7645.4	3779.5	2100.8	2085.6	2088.1	2039.8	1884.7	1849.0	1790.6	1765.1	1747.3
52.5°	7472.5	3492.1	1971.1	1976.2	1983.8	1904.9	1775.3	1749.9	1701.5	1665.9	1655.8
55°	6986.7	3044.4	1844.0	1864.3	1884.7	1734.6	1693.9	1630.3	1592.2	1541.3	1543.8
57.5°	6154.9	2451.9	1665.9	1699.0	1742.2	1576.9	1546.3	1467.5	1411.5	1370.9	1365.8
60°	4125.4	1744.7	1398.8	1411.5	1508.2	1442.1	1439.5	1360.7	1284.4	1248.8	1228.4
62.5°	2434.0	1332.7	1208.1	1195.4	1192.9	1231.0	1294.6	1266.6	1167.4	1098.8	1119.1
65°	1274.2	1152.2	1124.2	1080.9	1055.5	1045.4	1093.6	1106.3	1040.2	966.5	961.4
67.5°	1070.8	1070.8	1047.9	1032.6	997.0	953.8	923.2	882.5	872.4	852.0	826.6
70°	974.1	999.5	991.9	956.3	925.8	877.5	798.6	732.5	668.9	646.1	661.3
72.5°	849.5	874.9	874.9	857.1	816.4	742.7	666.3	590.0	536.6	495.9	490.9
75°	653.6	666.3	696.9	676.5	623.1	577.3	498.5	419.7	368.8	330.6	323.0
77.5°	417.1	437.5	437.5	434.9	396.8	353.6	302.7	246.7	208.6	180.6	172.9
80°	277.2	290.0	300.2	290.0	264.5	231.4	193.3	155.2	127.2	104.3	99.2
82.5°	203.4	218.7	226.4	216.2	190.7	165.3	137.3	109.3	81.4	63.6	58.5
85°	78.9	81.4	91.6	109.3	106.8	104.3	83.9	61.1	45.8	33.1	30.5
87.5°	20.4	17.8	20.4	20.4	17.8	15.2	15.2	15.2	15.2	7.7	10.2
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)