

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: P528894

Luminaire Tested: **GALN-SA4A-730-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528894
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-730-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14047 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

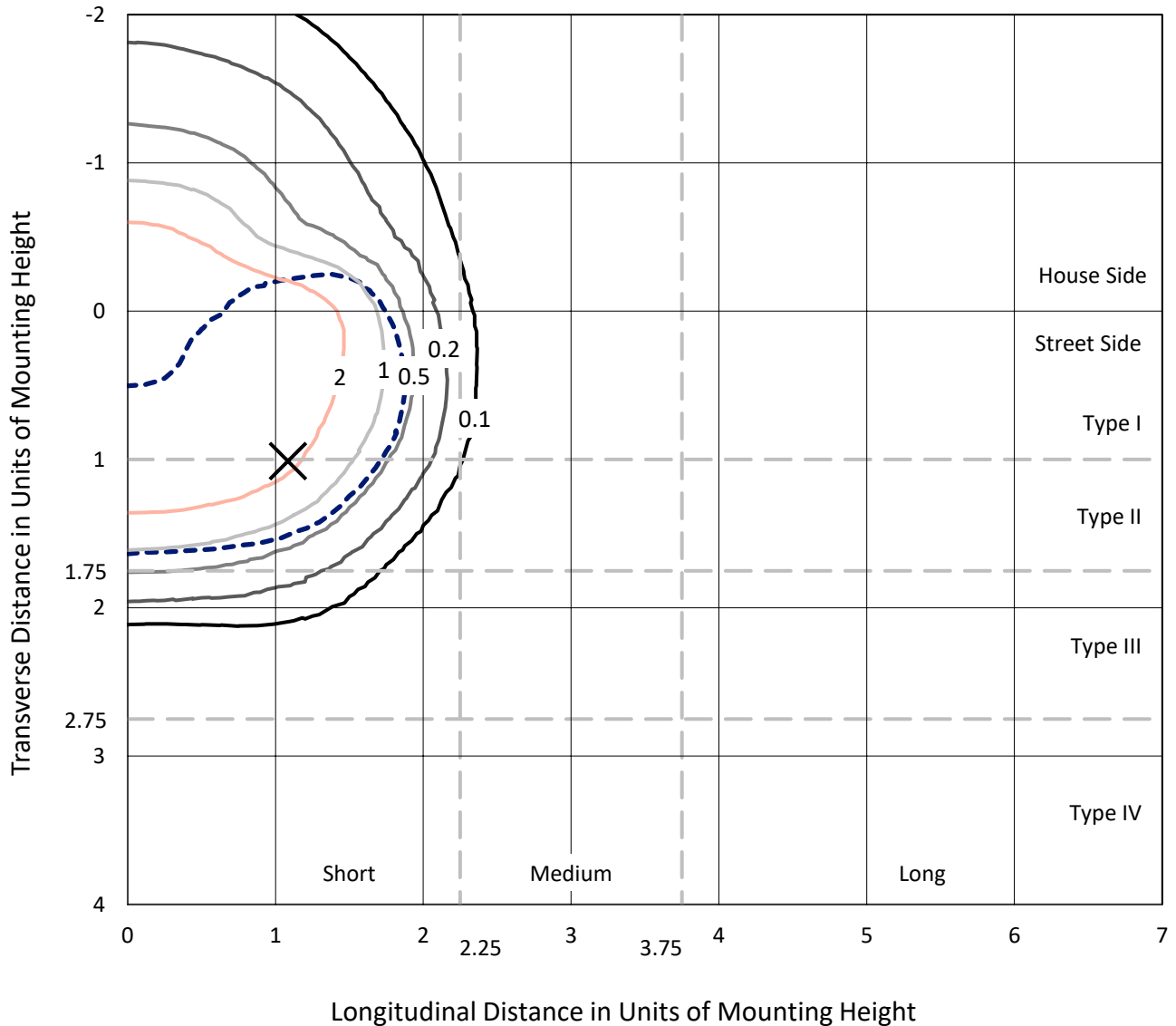
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

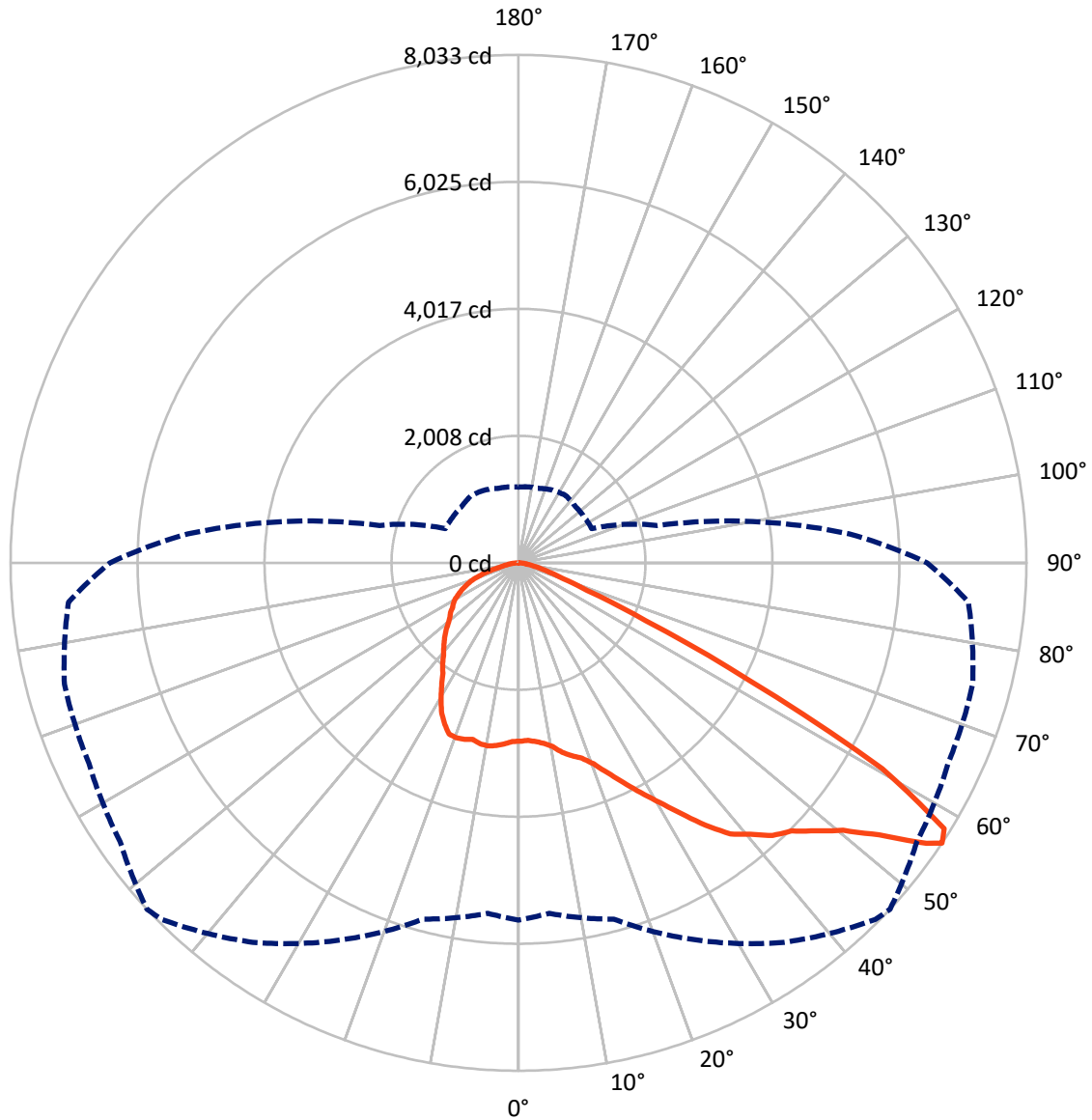
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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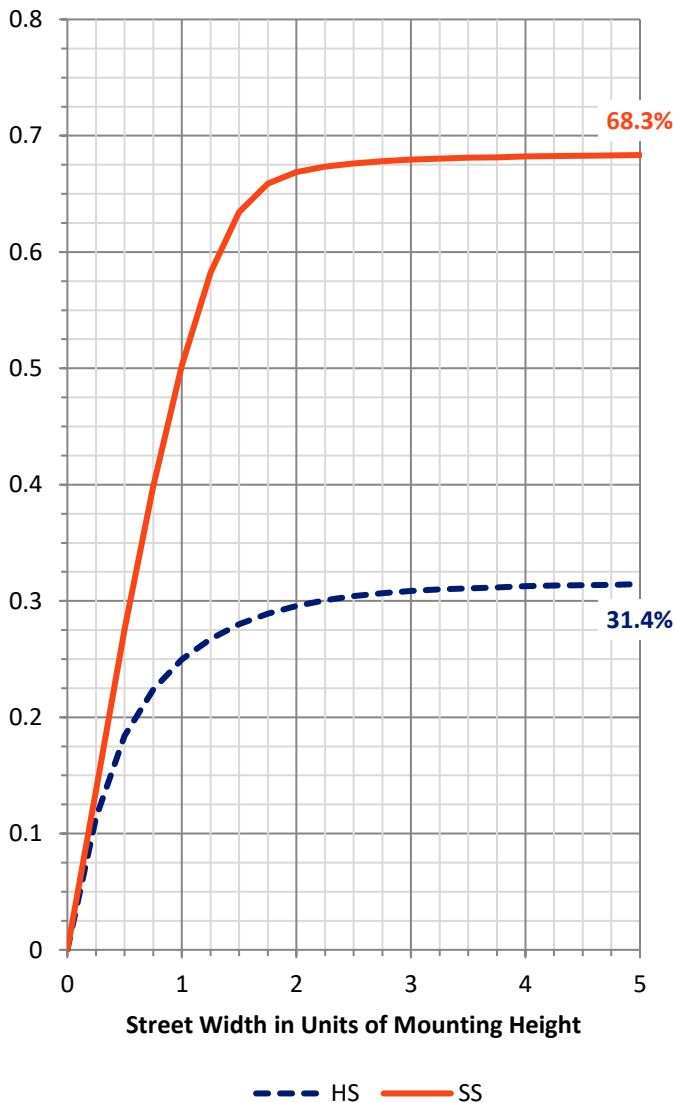
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4451.3	0.0	4451.3
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	9595.7	0.0	9595.7
	% Fixture	68.3	0.0	68.3
Total	Lumens	14047.0	0.0	14047.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.9	2.0
10°-20°	867.3	6.2
20°-30°	1533.1	10.9
30°-40°	2302.7	16.4
40°-50°	3160.2	22.5
50°-60°	3765.0	26.8
60°-70°	1611.2	11.5
70°-80°	456.0	3.2
80°-90°	76.7	0.5
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°	14047.0	100.0
0°-180°	14047.0	100.0

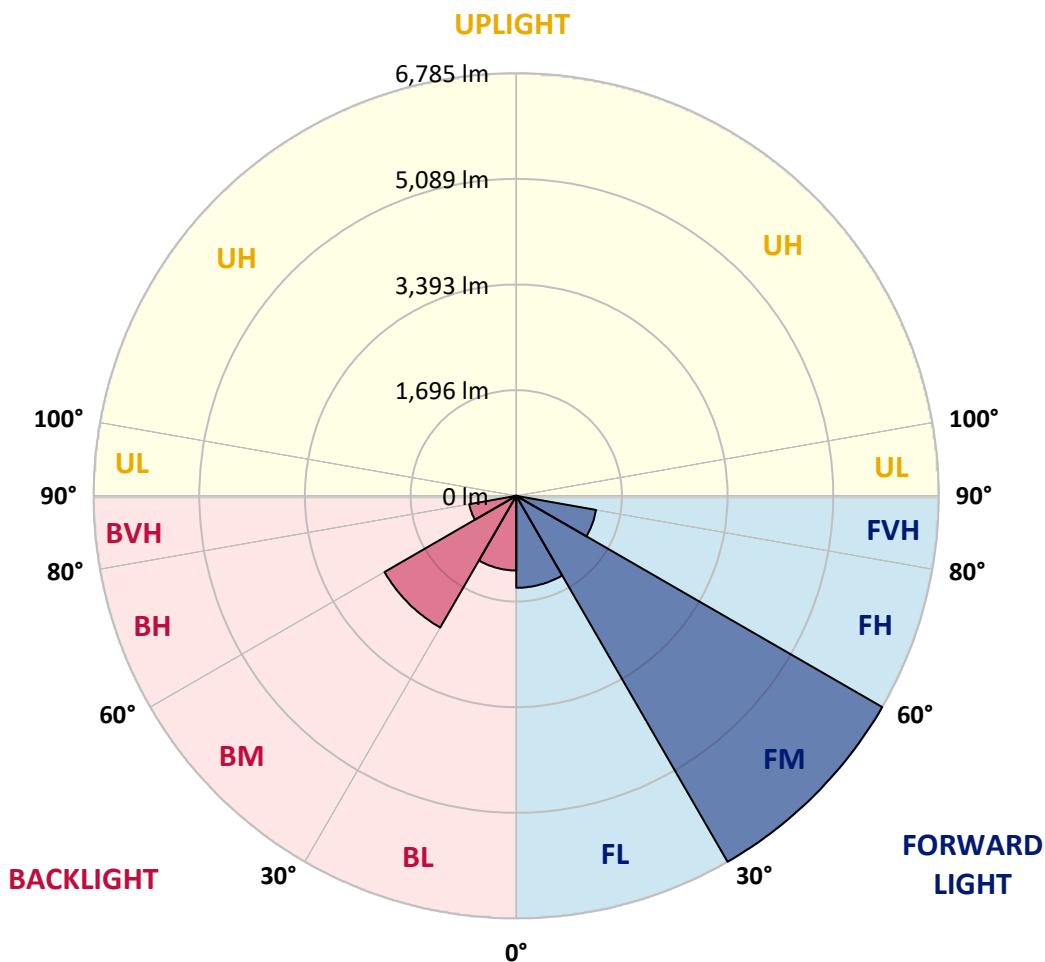


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1476.8	10.5			
FM (30°-60°)	6785.0	48.3			
FH (60°-80°)	1301.3	9.3			G1/1800
FVH (80°-90°)	32.6	0.2			G1/100
BL (0°-30°)	1198.5	8.5	B3/2500		
BM (30°-60°)	2442.8	17.4	B2/2500		
BH (60°-80°)	765.9	5.5	B2/1000		G2/1000
BVH (80°-90°)	44.2	0.3			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°	47°	55°	65°	75°	85°
0°	2821.6	2821.6	2821.6	2821.6	2821.6	2821.6	2821.6	2821.6	2821.6	2821.6	2821.6
2.5°	2810.9	2805.5	2801.9	2830.6	2819.8	2821.6	2810.9	2821.6	2828.8	2812.7	2835.9
5°	2805.5	2821.6	2807.3	2816.2	2839.5	2832.4	2839.5	2861.0	2855.7	2850.3	2843.1
7.5°	2855.7	2857.4	2868.2	2871.8	2878.9	2871.8	2882.5	2902.2	2896.9	2866.4	2870.0
10°	2927.3	2930.9	2932.7	2952.4	2964.9	2966.7	2954.2	2936.3	2934.5	2975.7	2947.0
12.5°	3009.7	3000.8	3022.3	3029.4	3043.8	3059.9	3076.0	3038.4	3061.7	3063.5	3029.4
15°	3129.8	3138.7	3113.6	3113.6	3119.0	3120.8	3165.6	3147.7	3144.1	3124.4	3138.7
17.5°	3308.9	3248.0	3246.2	3221.1	3217.5	3231.9	3248.0	3262.3	3310.7	3271.3	3194.2
20°	3439.7	3454.0	3402.1	3371.6	3377.0	3409.2	3393.1	3457.6	3491.6	3427.1	3351.9
22.5°	3670.8	3622.4	3635.0	3566.9	3572.3	3606.3	3604.5	3670.8	3690.5	3588.4	3479.1
25°	3826.6	3814.1	3824.9	3771.1	3778.3	3805.2	3848.1	3957.4	3925.2	3812.3	3559.7
27.5°	4054.2	4029.1	4020.1	4000.4	3993.3	4064.9	4115.1	4231.5	4208.2	4043.4	3703.0
30°	4287.1	4270.9	4279.9	4199.3	4227.9	4380.2	4394.6	4554.0	4543.2	4253.0	3862.5
32.5°	4448.3	4457.3	4473.4	4428.6	4555.8	4677.6	4726.0	4906.9	4915.9	4613.1	4170.6
35°	4708.1	4677.6	4686.6	4738.5	4797.6	5019.8	5098.6	5218.6	5293.9	4991.1	4466.2
37.5°	4871.1	4903.3	4865.7	4948.1	5102.2	5369.1	5440.8	5564.4	5643.2	5363.8	4869.3
40°	5125.5	5073.5	5100.4	5159.5	5317.2	5664.7	5645.0	5772.2	5797.3	5680.9	5245.5
42.5°	5399.6	5374.5	5336.9	5471.2	5603.8	5856.4	5895.8	5836.7	5963.9	5990.8	5783.0
45°	5727.4	5757.9	5763.3	5766.8	5883.3	6103.6	6049.9	5997.9	6144.9	6340.1	6116.2
47.5°	6032.0	5935.2	6005.1	6101.9	6266.7	6268.5	6331.2	6207.6	6363.4	6537.2	6417.2
50°	6134.1	6087.5	6180.7	6363.4	6617.8	6644.7	6651.8	6476.3	6556.9	6694.8	6521.1
52.5°	6094.7	6078.6	6316.8	6599.9	6972.5	7108.7	7144.5	6927.7	6972.5	6909.8	6750.4
55°	5906.6	5955.0	6195.0	6771.9	7343.4	7764.4	7832.4	7558.3	7273.5	7321.9	7146.3
56°	5648.6	5564.4	5833.1	6576.6	7327.2	7977.6	8033.1	7690.9	7497.4	7434.7	7142.7
57.5°	4792.3	4683.0	5035.9	5917.3	6920.6	7896.9	7938.1	7746.5	7459.8	7332.6	6621.4
60°	2805.5	2859.2	3307.1	4081.0	5338.7	6474.5	6612.4	6752.2	6560.5	5990.8	4928.4
62.5°	1354.4	1320.3	1641.0	2339.7	3253.4	4133.0	4091.8	4484.1	4699.1	4256.6	3111.8
65°	709.4	705.9	895.8	1277.3	1787.9	2171.3	2208.9	2420.3	2715.9	2192.8	1580.1
67.5°	521.3	535.7	630.6	897.5	1150.1	1173.4	1168.1	1273.8	1302.4	1101.8	971.0
70°	408.5	415.6	485.5	682.6	856.3	766.8	750.6	763.2	847.4	883.2	840.2
72.5°	295.6	302.8	361.9	460.4	535.7	523.1	533.9	603.7	707.6	745.3	700.5
75°	197.1	202.4	234.7	281.3	317.1	342.2	361.9	442.5	539.2	560.7	539.2
77.5°	136.2	141.5	163.0	198.9	202.4	218.6	225.7	263.4	322.5	349.3	335.0
80°	77.0	77.0	87.8	102.1	125.4	146.9	150.5	180.9	207.8	225.7	229.3
82.5°	35.8	37.6	46.6	62.7	82.4	102.1	105.7	125.4	145.1	163.0	168.4
85°	17.9	19.7	26.9	37.6	50.2	60.9	59.1	60.9	64.5	60.9	62.7
87.5°	5.4	5.4	7.2	9.0	7.2	9.0	9.0	10.7	12.5	14.3	16.1
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°	2821.6	2821.6	2821.6	2821.6	2821.6	2821.6	2821.6	2821.6	2821.6	2821.6	2821.6
2.5°	2837.7	2843.1	2807.3	2841.3	2828.8	2827.0	2852.1	2848.5	2857.4	2853.9	2832.4
5°	2839.5	2827.0	2864.6	2830.6	2846.7	2880.7	2857.4	2911.2	2884.3	2902.2	2862.8
7.5°	2895.1	2898.7	2891.5	2905.8	2898.7	2914.8	2902.2	2914.8	2893.3	2895.1	2930.9
10°	2943.4	2932.7	2945.2	2927.3	2939.9	2934.5	2905.8	2896.9	2904.0	2895.1	2918.4
12.5°	3033.0	3013.3	3004.3	2982.9	2968.5	2914.8	2870.0	2844.9	2878.9	2884.3	2873.6
15°	3124.4	3126.2	3085.0	3036.6	2947.0	2866.4	2877.2	2886.1	2886.1	2900.4	2873.6
17.5°	3181.7	3181.7	3144.1	3047.3	2956.0	2909.4	2898.7	2870.0	2844.9	2841.3	2839.5
20°	3282.0	3251.6	3165.6	3045.6	2952.4	2930.9	2850.3	2782.2	2730.2	2712.3	2710.5
22.5°	3396.7	3319.7	3199.6	3049.1	2947.0	2916.6	2766.1	2664.0	2570.8	2531.4	2536.8
25°	3502.4	3378.8	3219.3	3033.0	2927.3	2780.4	2612.0	2470.5	2373.7	2341.5	2325.4
27.5°	3575.8	3441.5	3219.3	3047.3	2853.9	2628.1	2456.1	2275.2	2191.0	2169.5	2173.1
30°	3674.4	3520.3	3274.9	3016.9	2707.0	2431.1	2225.0	2106.8	2056.6	2038.7	2051.3
32.5°	3905.5	3726.3	3351.9	2943.4	2533.2	2234.0	2067.4	2001.1	1927.7	1891.8	1879.3
35°	4156.3	3921.6	3427.1	2819.8	2337.9	2054.9	1950.9	1890.0	1802.3	1762.8	1770.0
37.5°	4511.0	4172.4	3432.5	2615.6	2126.5	1954.5	1859.6	1764.6	1693.0	1632.1	1614.1
40°	4989.3	4514.6	3420.0	2400.6	1956.3	1836.3	1766.4	1648.2	1567.6	1524.6	1533.5
42.5°	5410.3	4915.9	3368.0	2157.0	1802.3	1755.7	1676.8	1560.4	1481.6	1436.8	1433.2
45°	5765.1	5211.5	3269.5	1949.2	1673.3	1666.1	1574.7	1485.2	1422.5	1381.2	1399.2
47.5°	6092.9	5449.7	3120.8	1741.3	1555.0	1569.4	1481.6	1426.0	1386.6	1349.0	1347.2
50°	6211.1	5446.2	2990.0	1569.4	1460.1	1452.9	1449.3	1390.2	1349.0	1316.8	1331.1
52.5°	6408.2	5507.1	2848.5	1451.1	1374.1	1375.9	1388.4	1345.4	1298.8	1279.1	1297.0
55°	6691.3	5516.0	2536.8	1313.2	1302.4	1315.0	1315.0	1286.3	1246.9	1230.8	1221.8
56°	6460.2	5249.1	2275.2	1277.3	1266.6	1266.6	1300.6	1268.4	1220.0	1207.5	1196.7
57.5°	5958.5	4598.8	1904.4	1234.3	1218.2	1243.3	1261.2	1227.2	1182.4	1164.5	1175.2
60°	4109.7	3111.8	1431.4	1141.2	1141.2	1182.4	1196.7	1146.6	1126.9	1125.1	1110.7
62.5°	2398.8	1813.0	1119.7	1057.0	1060.6	1094.6	1105.4	1076.7	1051.6	1082.1	1096.4
65°	1272.0	1082.1	960.2	967.4	969.2	996.1	1042.7	1040.9	1039.1	1048.0	1049.8
67.5°	920.8	899.3	872.5	865.3	868.9	888.6	935.2	971.0	969.2	947.7	931.6
70°	820.5	790.1	773.9	775.7	761.4	784.7	822.3	845.6	804.4	779.3	768.6
72.5°	682.6	673.6	662.9	664.6	636.0	630.6	587.6	587.6	576.9	569.7	582.2
75°	521.3	517.7	523.1	514.2	483.7	451.5	426.4	403.1	367.3	352.9	345.8
77.5°	329.6	340.4	352.9	333.2	320.7	297.4	272.3	249.0	220.4	204.2	204.2
80°	223.9	232.9	241.9	238.3	223.9	202.4	182.7	157.7	137.9	125.4	123.6
82.5°	170.2	177.4	189.9	175.6	161.2	143.3	127.2	109.3	91.4	77.0	77.0
85°	60.9	69.9	77.0	84.2	89.6	91.4	78.8	64.5	52.0	41.2	39.4
87.5°	16.1	17.9	19.7	17.9	17.9	17.9	19.7	17.9	16.1	12.5	12.5
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)