

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: P651593

Luminaire Tested: **GALN-SA8D-840-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-840-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52097.4 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

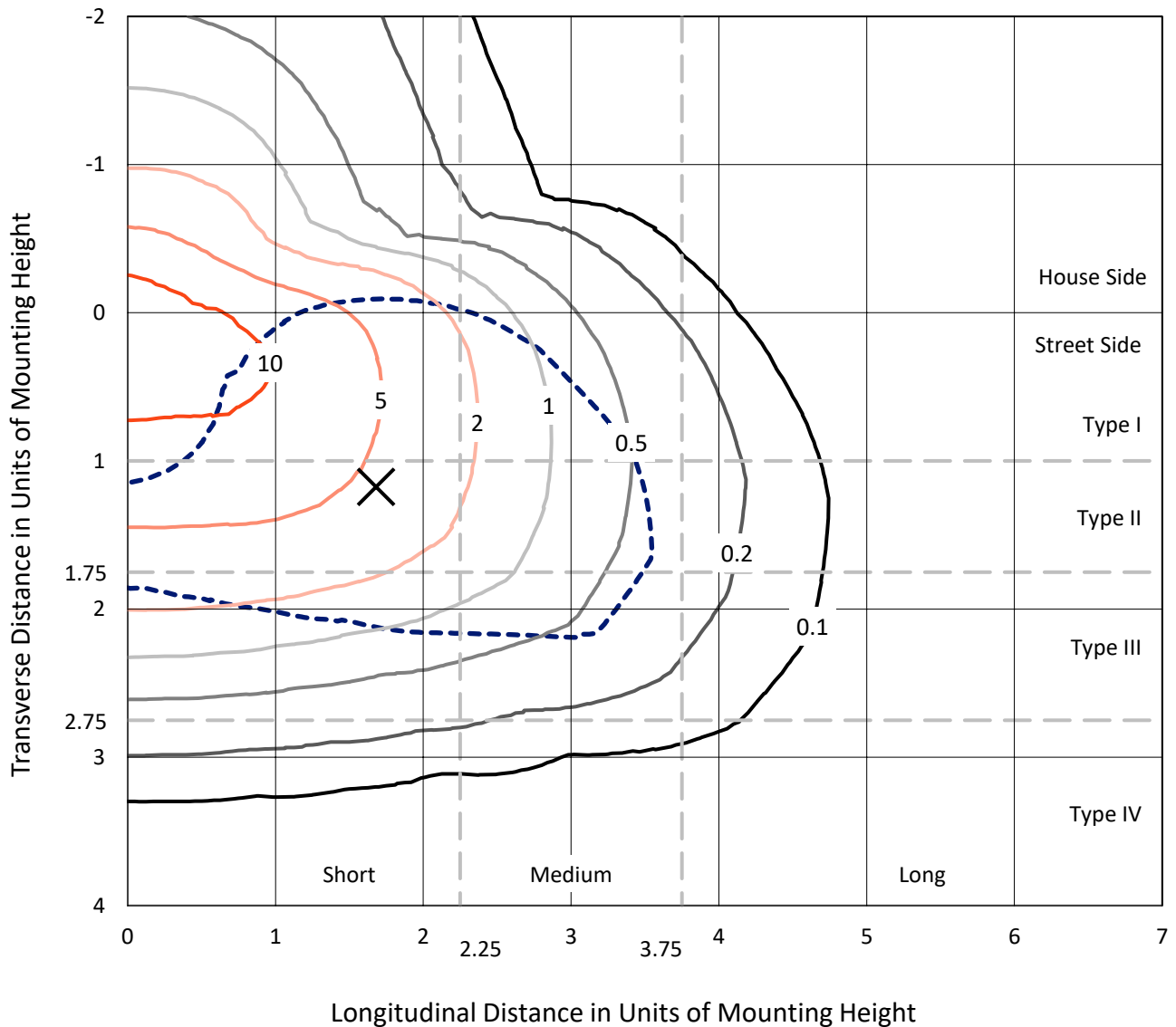
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

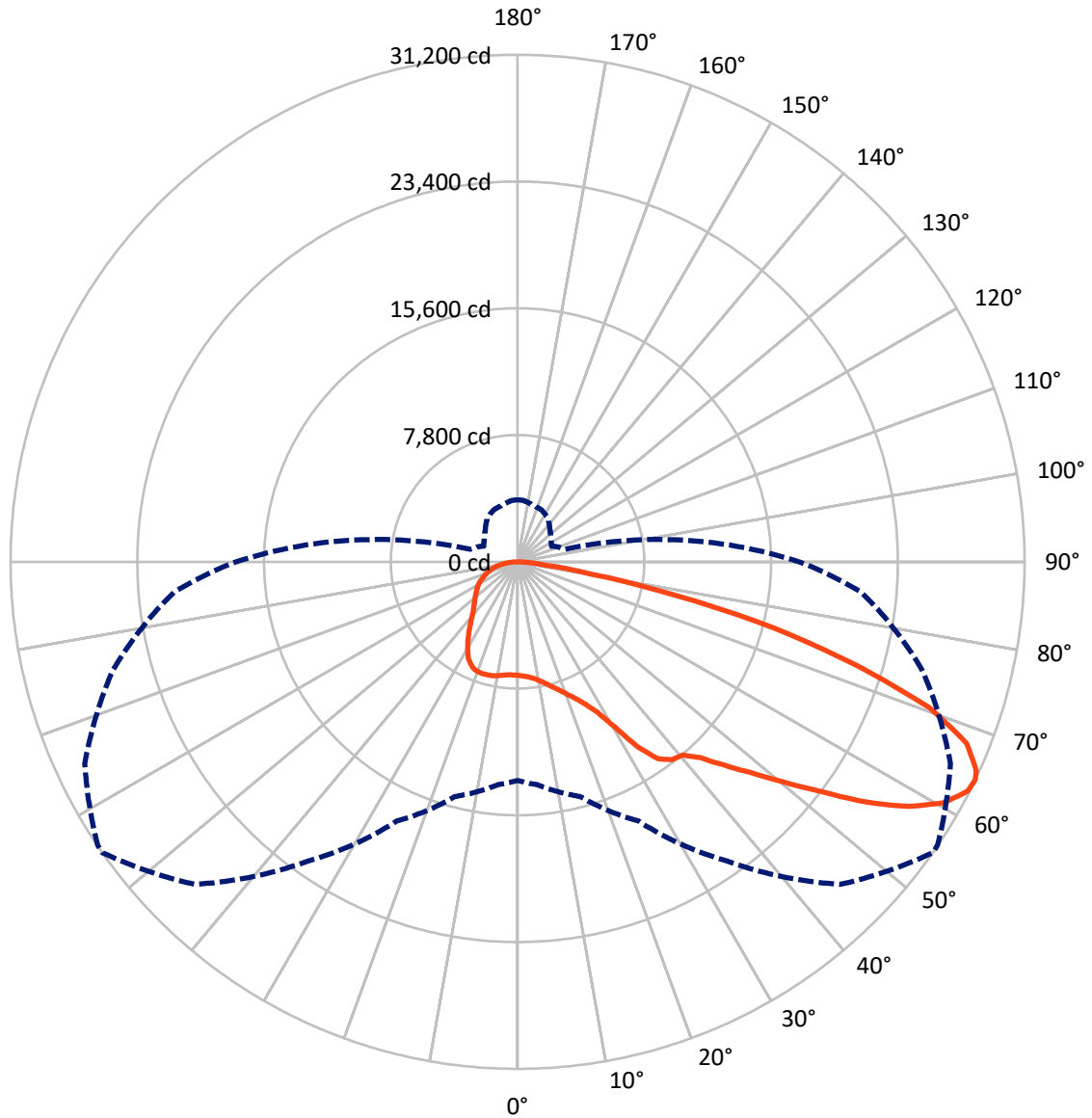
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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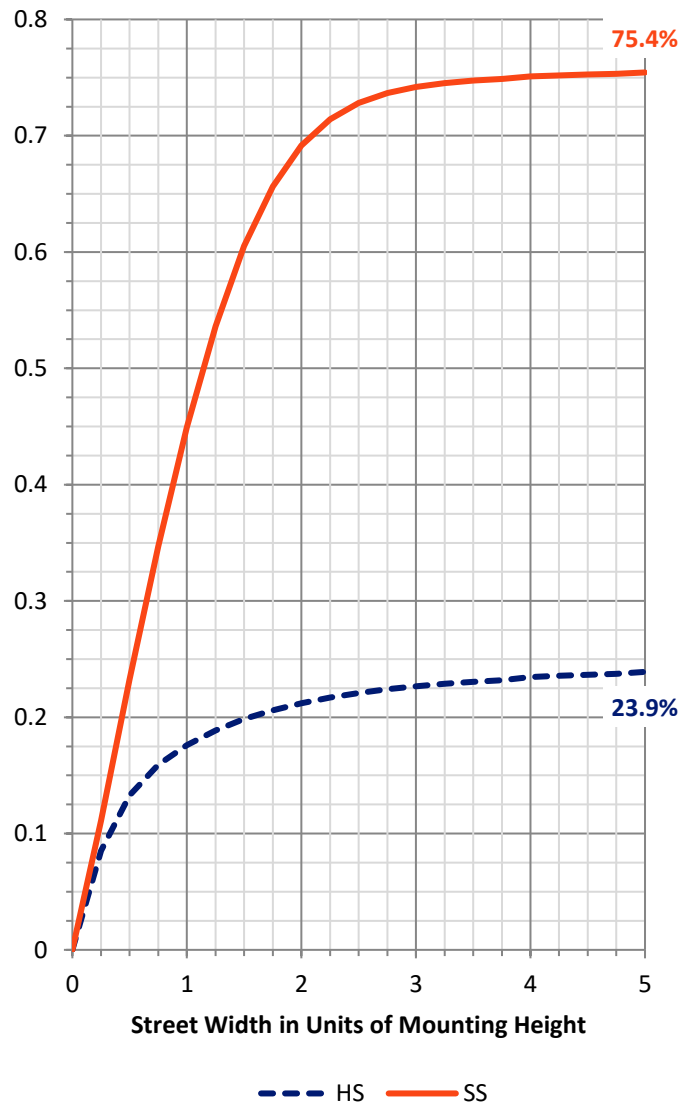
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12655.5	0.0	12655.5
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	39441.9	0.0	39441.9
	% Fixture	75.7	0.0	75.7
Total	Lumens	52097.4	0.0	52097.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.9	1.3
10°-20°	2145.4	4.1
20°-30°	3819.4	7.3
30°-40°	5876.5	11.3
40°-50°	8330.4	16.0
50°-60°	12058.1	23.1
60°-70°	12478.8	24.0
70°-80°	5843.8	11.2
80°-90°	865.1	1.7
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°	52097.4	100.0
0°-180°	52097.4	100.0

Coefficient of Utilization



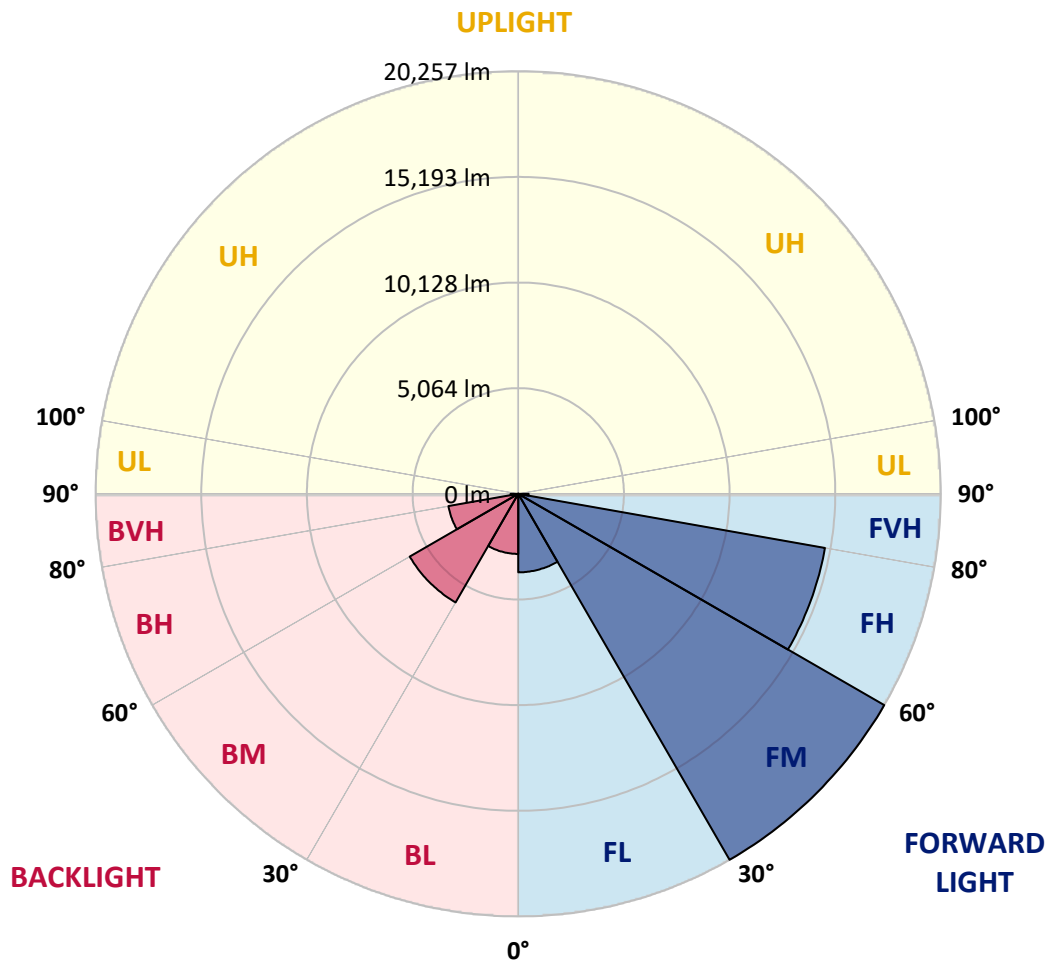
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3762.3	7.2			
FM (30°-60°)	20256.9	38.9			
FH (60°-80°)	14927.4	28.7			G5
FVH (80°-90°)	495.3	1.0			G3/500
BL (0°-30°)	2882.4	5.5	B4/5000		
BM (30°-60°)	6008.1	11.5	B4/8500		
BH (60°-80°)	3395.2	6.5	B4/5000		G4/5000
BVH (80°-90°)	369.8	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6989.9	6989.9	6989.9	6989.9	6989.9	6989.9	6989.9	6989.9	6989.9	6989.9	6989.9
2.5°	7068.3	7065.4	7074.2	7065.4	7071.2	7050.9	7042.2	7048.0	7039.3	7024.8	6998.6
5°	7155.4	7152.5	7155.4	7143.8	7149.6	7138.0	7117.7	7123.5	7109.0	7077.0	7039.3
7.5°	7303.5	7291.9	7291.9	7289.0	7277.4	7259.9	7245.5	7239.7	7225.1	7184.5	7126.4
10°	7495.2	7495.2	7498.1	7474.9	7489.4	7457.5	7442.9	7440.0	7390.6	7338.4	7257.1
12.5°	7747.9	7762.3	7753.7	7742.0	7736.2	7724.6	7675.2	7686.8	7631.7	7541.7	7442.9
15°	8061.5	8084.7	8070.2	8064.3	8049.9	8006.3	7986.0	7977.2	7904.6	7774.0	7643.3
17.5°	8476.8	8447.7	8436.1	8421.6	8360.5	8328.7	8293.8	8288.0	8224.1	8070.2	7866.9
20°	8839.8	8880.4	8857.2	8842.6	8781.6	8720.7	8694.5	8685.8	8630.7	8462.2	8137.0
22.5°	9272.4	9281.1	9289.9	9255.0	9225.9	9179.5	9133.0	9118.5	9098.2	8923.9	8526.1
25°	9734.2	9769.1	9740.0	9705.1	9670.3	9667.4	9710.9	9705.1	9696.4	9528.0	9043.0
27.5°	10486.3	10518.2	10527.0	10489.2	10355.7	10367.3	10466.0	10498.0	10631.5	10352.7	9708.0
30°	10910.3	10942.3	11014.8	11157.1	11369.1	11555.0	11793.1	11865.7	11993.5	11467.9	10498.0
32.5°	11171.7	11183.3	11314.0	11578.2	12214.2	12908.3	13555.8	13582.0	13663.3	12925.7	11221.0
35°	11584.0	11592.8	11697.3	11987.7	12734.0	13889.8	14891.7	14923.6	14856.8	13378.7	11557.9
37.5°	12092.2	12115.4	12182.2	12423.3	13314.8	14711.6	15446.3	15423.1	14830.7	13738.7	12153.2
40°	12832.7	12832.7	12754.4	13079.6	13927.5	15182.1	15640.9	15600.2	15443.5	14781.3	13059.2
42.5°	13486.1	13474.5	13660.4	13881.0	14694.2	15908.0	16456.9	16523.7	16782.2	16091.0	14090.1
45°	14337.0	14389.3	14493.8	14894.5	15998.1	17148.1	17856.6	17920.5	18286.5	17633.0	15295.4
47.5°	15196.6	15214.0	15542.2	16076.5	17612.7	18829.5	19410.3	19514.8	19848.8	19436.4	16593.4
50°	15806.4	15971.9	16497.6	17339.7	19276.6	20879.7	21332.7	21457.6	22047.1	21399.5	18106.4
52.5°	16451.1	16613.7	17255.5	18539.1	21187.5	22976.4	23534.0	23618.1	24230.9	23385.9	19654.2
55°	17002.8	17153.9	17882.8	19601.9	22709.2	25116.6	26127.2	26028.4	26321.8	24916.2	20847.7
57.5°	17092.9	17214.8	18132.5	20281.5	23853.4	26951.9	28401.0	28459.1	28119.3	26060.4	21832.2
60°	16395.9	16645.7	17699.9	20208.9	24367.4	28229.7	30097.0	30137.6	29173.4	26647.0	22224.3
62.5°	15161.7	15135.6	16410.4	19041.4	23647.2	28520.1	31095.9	31052.3	29585.9	26365.4	21843.8
64°	13457.1	13770.7	14961.4	17606.9	22485.6	28072.8	31200.4	31177.2	29388.4	25778.8	21196.2
65°	12417.4	12400.0	13576.2	16433.6	21329.8	27399.1	31014.6	30982.7	28976.0	25253.1	20693.8
67.5°	8964.6	9005.3	10166.8	12681.7	17339.7	24765.2	29803.6	29684.6	27349.7	23510.7	18783.0
70°	5430.4	5453.7	6365.5	8412.9	12446.5	20020.1	26864.8	26870.6	24861.1	20908.7	15986.5
72.5°	2860.4	2921.4	3287.3	4777.0	7559.1	14046.6	21794.4	22311.3	21344.3	17845.0	12629.5
75°	1591.4	1600.1	1858.5	2355.1	3856.5	7861.1	16381.4	16529.5	16898.3	14363.1	9339.2
77.5°	1213.9	1231.3	1312.6	1521.7	2099.6	3644.5	9914.2	10657.7	11909.2	10126.2	5328.8
80°	984.5	1001.9	1071.6	1196.4	1396.8	1727.8	4605.7	5006.5	6374.3	4495.4	2079.3
82.5°	766.7	755.0	845.0	926.4	1016.4	1022.2	1890.5	2090.9	2596.2	1934.0	900.2
85°	569.2	569.2	641.8	624.4	656.3	598.2	833.4	920.6	1039.6	821.8	418.1
87.5°	226.5	249.8	421.1	377.5	293.3	235.2	307.8	325.2	360.1	322.4	174.3
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°	6989.9	6989.9	6989.9	6989.9	6989.9	6989.9	6989.9	6989.9	6989.9	6989.9	6989.9
2.5°	7001.5	7010.2	6989.9	6975.4	6969.5	6960.9	6952.1	6955.1	6966.7	6978.3	6975.4
5°	7036.4	7039.3	7004.4	6987.0	6975.4	6963.7	6963.7	6972.5	6995.7	7013.1	7013.1
7.5°	7123.5	7123.5	7074.2	7042.2	7024.8	7004.4	6998.6	7001.5	7018.9	7042.2	7045.1
10°	7259.9	7248.3	7184.5	7135.1	7103.2	7053.8	7010.2	6987.0	6995.7	7010.2	7010.2
12.5°	7425.5	7393.6	7312.2	7245.5	7167.1	7074.2	6984.1	6937.7	6934.7	6949.3	6943.5
15°	7602.6	7567.8	7454.5	7332.6	7196.1	7059.6	6952.1	6885.4	6833.1	6818.6	6850.5
17.5°	7808.9	7736.2	7579.4	7411.0	7207.7	7030.6	6862.1	6725.6	6632.7	6606.6	6615.3
20°	8058.5	7962.8	7750.7	7486.5	7199.0	6926.1	6664.7	6481.7	6330.7	6284.2	6290.0
22.5°	8404.1	8238.6	7927.9	7524.3	7126.4	6728.5	6365.5	6127.4	5944.4	5871.9	5915.4
25°	8796.2	8616.1	8096.3	7515.5	6937.7	6412.0	6011.3	5700.6	5535.0	5427.6	5450.8
27.5°	9336.4	9016.9	8276.4	7437.1	6667.5	6025.8	5561.1	5267.9	5116.8	5061.6	5087.8
30°	10027.5	9536.7	8471.0	7225.1	6240.6	5537.9	5108.1	4916.5	4826.4	4756.7	4780.0
32.5°	10527.0	9902.6	8514.5	6867.9	5778.9	5093.6	4800.3	4658.0	4559.2	4492.5	4507.0
35°	10884.1	10213.4	8494.2	6429.4	5296.9	4727.7	4556.4	4440.2	4280.5	4135.3	4109.1
37.5°	11363.3	10602.5	8346.1	5950.2	4820.6	4480.8	4358.9	4144.0	3914.6	3720.0	3711.3
40°	12098.0	11058.4	8029.5	5386.9	4414.1	4297.9	4149.8	3871.0	3624.2	3467.4	3455.8
42.5°	12855.9	11479.5	7599.8	4794.5	4080.1	4106.3	3926.2	3650.3	3499.3	3397.6	3386.0
45°	13782.3	11935.4	7135.1	4280.5	3833.3	3926.2	3731.6	3571.9	3481.9	3415.1	3397.6
47.5°	14784.2	12402.9	6612.4	3818.7	3624.2	3760.7	3650.3	3577.7	3528.3	3481.9	3461.6
50°	15864.5	12925.7	6121.6	3447.0	3435.4	3589.3	3641.6	3615.5	3586.4	3571.9	3554.5
52.5°	17049.3	13460.0	5709.2	3185.7	3269.9	3467.4	3644.5	3664.8	3664.8	3656.2	3644.5
55°	17850.8	13831.7	5291.1	2973.7	3101.4	3368.6	3638.7	3717.1	3746.2	3734.5	3722.9
57.5°	18443.2	14034.9	4765.4	2790.8	2959.1	3272.8	3606.8	3722.9	3752.0	3766.5	3760.7
60°	18565.2	13846.2	4077.2	2599.1	2805.2	3133.4	3490.6	3635.8	3673.6	3763.6	3772.3
62.5°	18016.3	13265.4	3391.8	2410.3	2616.5	2921.4	3333.8	3537.1	3612.6	3752.0	3766.5
64°	17342.6	12614.9	3011.5	2291.2	2494.5	2802.4	3255.3	3510.9	3609.7	3795.5	3807.1
65°	16848.9	12141.6	2773.3	2215.8	2416.1	2723.9	3211.8	3519.7	3635.8	3862.3	3879.7
67.5°	15031.0	10512.4	2294.2	2038.6	2230.2	2590.4	3220.5	3592.2	3630.0	3888.4	3885.5
70°	12437.8	8369.3	1922.4	1876.0	2050.2	2482.9	3185.7	3476.1	3479.0	3650.3	3609.7
72.5°	9313.1	6185.5	1666.9	1707.6	1849.9	2227.4	3008.5	3319.3	3269.9	3293.1	3252.5
75°	6397.5	4091.7	1434.6	1527.5	1640.8	1968.9	2758.8	3014.3	2935.9	2906.9	2877.8
77.5°	3415.1	2262.2	1193.5	1350.4	1425.8	1701.8	2407.4	2654.3	2573.0	2459.7	2421.9
80°	1382.3	1065.8	961.2	1118.0	1161.6	1370.7	2003.8	2157.7	2096.7	1899.2	1835.3
82.5°	694.1	638.9	755.0	879.9	882.8	978.7	1489.7	1634.9	1498.5	1257.5	1202.3
85°	363.0	374.6	519.8	618.6	546.0	528.5	894.4	990.3	909.0	789.9	711.5
87.5°	130.7	151.0	273.0	270.0	191.7	101.7	197.5	95.8	52.3	32.0	40.6
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)