

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: P651585

Luminaire Tested: **GALN-SA8D-840-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
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-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52835 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

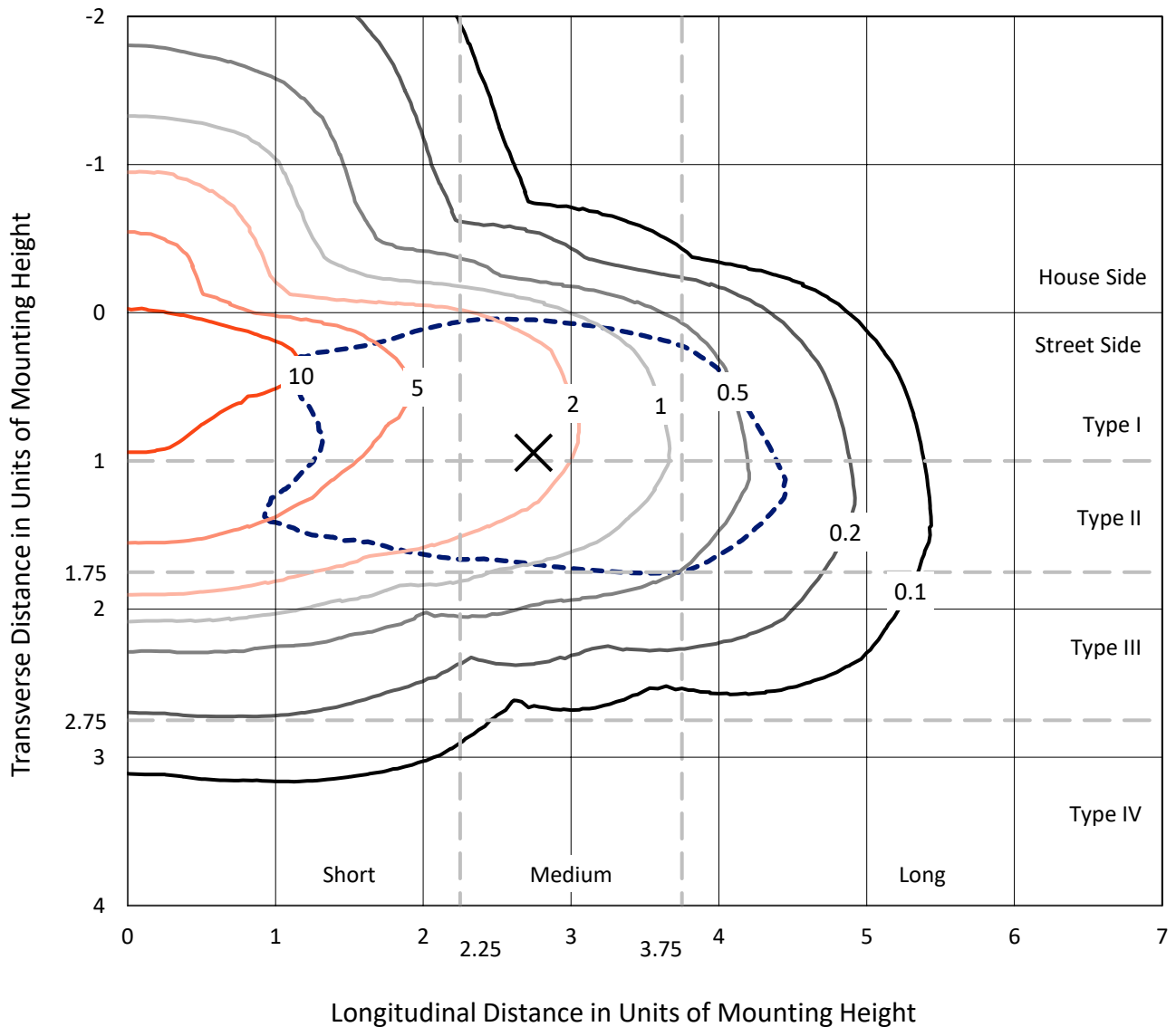
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

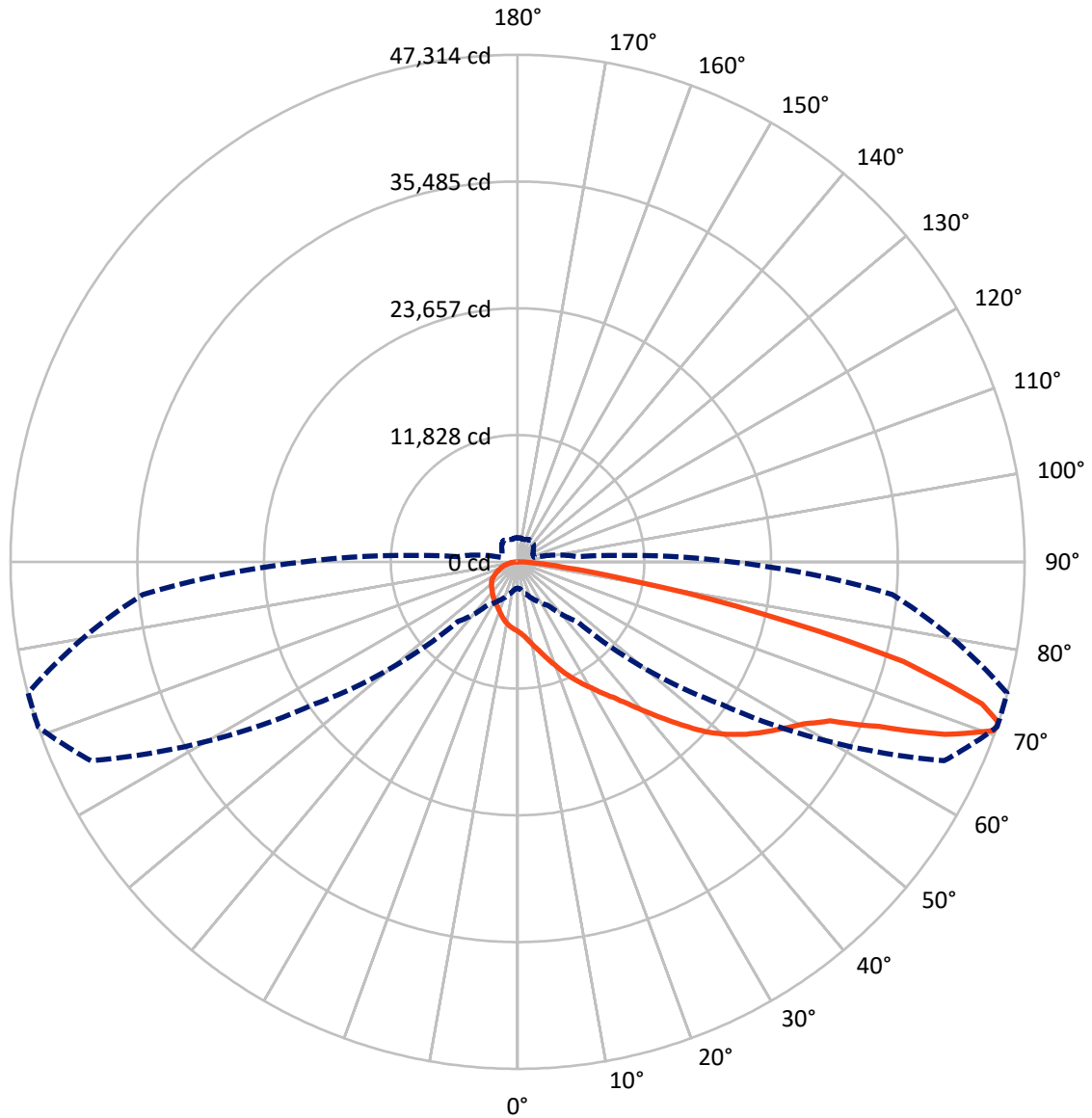
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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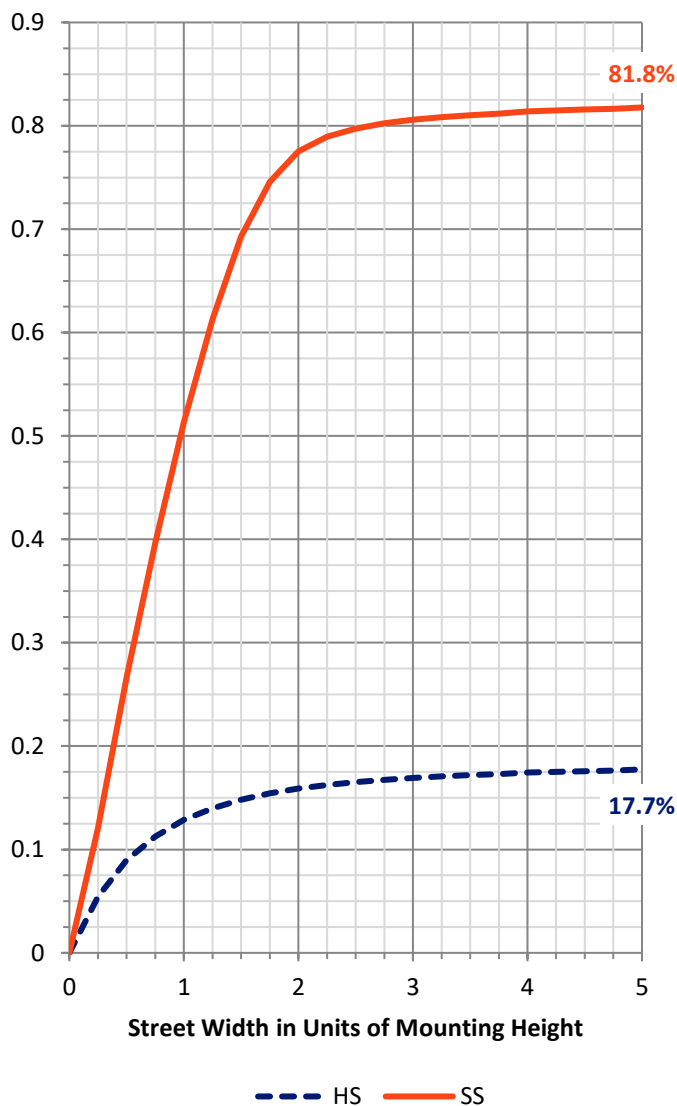
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9502.2	0.0	9502.2
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	43332.8	0.0	43332.8
	% Fixture	82.0	0.0	82.0
Total	Lumens	52835.0	0.0	52835.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.1	1.2
10°-20°	2115.3	4.0
20°-30°	3696.7	7.0
30°-40°	5498.4	10.4
40°-50°	8101.1	15.3
50°-60°	11341.7	21.5
60°-70°	12685.3	24.0
70°-80°	7748.7	14.7
80°-90°	996.8	1.9
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°	52835.0	100.0
0°-180°	52835.0	100.0

Coefficient of Utilization

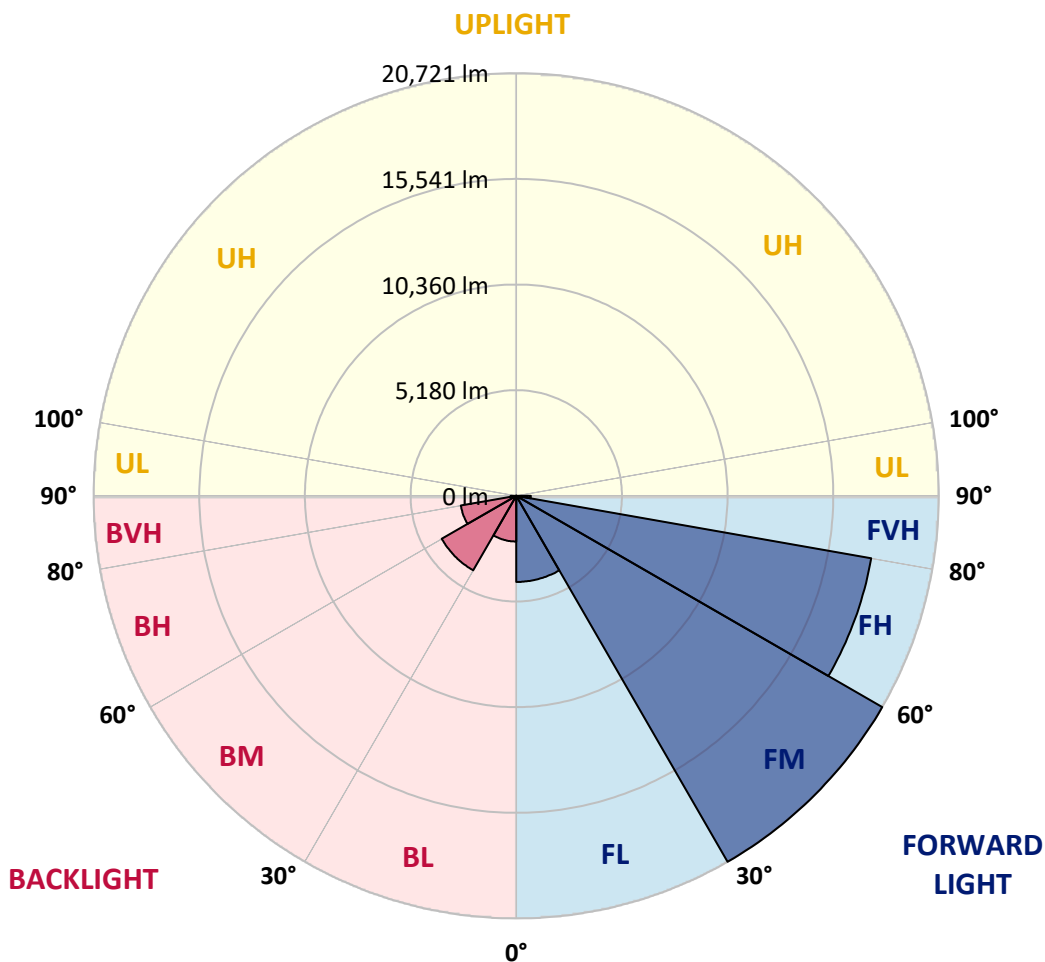


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4221.5	8.0			
FM (30°-60°)	20720.8	39.2			
FH (60°-80°)	17673.1	33.4			G5
FVH (80°-90°)	717.2	1.4			G4/750
BL (0°-30°)	2241.5	4.2	B3/2500		
BM (30°-60°)	4220.3	8.0	B3/5000		
BH (60°-80°)	2760.8	5.2	B4/5000		G4/5000
BVH (80°-90°)	279.6	0.5			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	6484.4	6484.4	6484.4	6484.4	6484.4	6484.4	6484.4	6484.4	6484.4	6484.4	6484.4
2.5°	7198.8	7164.0	7166.8	7117.5	7053.6	6983.9	6885.2	6798.1	6728.4	6687.7	6568.6
5°	7977.1	7942.2	7898.7	7791.2	7744.8	7573.5	7355.6	7158.2	7007.1	6922.9	6684.9
7.5°	8607.2	8598.5	8586.9	8525.9	8406.9	8168.7	7982.9	7640.2	7416.6	7256.9	6850.4
10°	8996.3	9010.9	9019.6	9031.2	8981.8	8857.0	8601.4	8168.7	7884.1	7680.9	7065.2
12.5°	9193.8	9208.4	9257.7	9365.1	9431.9	9417.4	9208.4	8784.3	8392.3	8125.2	7294.7
15°	9315.8	9339.0	9426.1	9568.4	9792.0	9934.3	9832.6	9440.6	9010.9	8694.3	7567.7
17.5°	9449.4	9475.5	9571.3	9774.6	10067.9	10375.7	10486.1	10149.2	9681.7	9304.2	7872.5
20°	9524.8	9559.7	9696.2	9963.3	10306.0	10753.2	11119.1	10942.0	10430.8	10012.7	8223.9
22.5°	9646.9	9675.9	9792.0	10076.6	10486.1	11046.5	11752.1	11714.4	11264.3	10724.2	8610.2
25°	9977.9	10024.3	10082.4	10253.7	10648.7	11345.6	12277.8	12539.1	12071.6	11467.5	8964.4
27.5°	10602.2	10640.0	10637.1	10660.3	10883.9	11604.0	12733.7	13355.2	12873.1	12219.7	9307.1
30°	11313.6	11328.2	11339.8	11287.6	11336.9	11868.4	13151.8	14162.4	13680.4	12992.1	9606.2
32.5°	12179.0	12208.0	12109.3	11975.8	11935.1	12260.4	13497.4	14969.7	14635.8	13776.2	9902.4
35°	13201.2	13276.7	13076.4	12841.1	12675.6	12823.7	13962.0	15794.4	15614.3	14778.1	10294.4
37.5°	14368.6	14461.5	14275.6	13813.9	13578.7	13619.4	14569.0	16813.7	16851.5	15919.3	10878.1
40°	15323.9	15446.0	15451.8	14798.4	14441.2	14487.7	15338.5	17911.4	18344.1	17330.6	11566.3
42.5°	15954.1	16073.2	16198.1	15814.8	15440.2	15704.4	16235.8	19102.0	20022.5	19043.9	12527.5
45°	16645.2	16752.7	16822.4	16648.2	16439.1	17124.4	17319.0	20368.1	21811.3	20957.6	13578.7
47.5°	17446.7	17565.8	17632.6	17467.1	17388.7	18370.2	18486.4	21550.0	23722.1	22816.1	14740.3
50°	18515.4	18605.4	18570.5	18466.0	18448.6	19325.6	19607.2	22656.4	25299.0	24816.9	15945.4
52.5°	19845.4	19952.8	19990.6	19842.5	19775.7	20008.0	20510.4	23664.1	26733.5	26536.0	17231.8
55°	20649.7	20821.1	21396.0	21628.4	21788.1	20890.8	21483.2	24776.3	28019.9	28348.1	18614.1
57.5°	19618.8	19839.6	21126.0	22287.6	23788.9	23097.8	22862.6	25937.8	29306.3	30104.9	20269.4
60°	17104.1	17153.5	18811.6	20951.7	23971.9	25934.9	25740.3	27784.7	30700.2	31876.3	22450.2
62.5°	11865.4	11970.0	13930.1	17345.1	21712.6	26957.1	30636.4	30973.2	32698.2	34527.6	25647.4
65°	6118.5	5982.0	7768.0	10901.3	16369.4	24529.4	34603.1	36836.2	37030.7	38674.4	30148.5
67.5°	3766.4	3827.4	4663.7	6365.4	9678.7	17827.2	34187.8	44000.2	42975.1	43765.0	34327.3
70°	2828.5	2903.9	3478.9	4355.9	5900.8	10192.8	27494.3	45736.7	47168.3	46965.1	35599.1
71°	2459.6	2538.1	3136.3	3963.9	4957.0	7866.7	23164.6	43918.9	47313.6	47278.7	35120.0
72.5°	2096.6	2146.0	2613.5	3356.9	4178.8	5514.5	17403.1	39388.7	45295.3	46454.0	33409.6
75°	1646.5	1684.3	1893.3	2561.3	3290.2	3386.0	9339.0	29529.9	37202.1	39409.1	27813.7
77.5°	1341.6	1367.7	1475.2	1902.1	2538.1	2398.6	4898.9	19221.1	23306.9	25528.4	16383.9
80°	1065.7	1094.8	1158.6	1289.3	1902.1	1710.4	2337.6	9739.7	11258.5	11235.3	6539.6
82.5°	827.6	836.3	911.8	946.7	1300.9	1213.8	1266.1	4123.6	4567.9	4718.9	2360.9
85°	522.7	548.8	807.3	726.0	778.3	711.5	624.4	1637.8	2018.2	1989.2	943.8
87.5°	159.7	168.5	273.0	307.8	345.6	310.7	229.4	482.1	589.5	638.8	235.2
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°	6484.4	6484.4	6484.4	6484.4	6484.4	6484.4	6484.4	6484.4	6484.4	6484.4	6484.4
2.5°	6522.2	6490.2	6377.0	6284.1	6197.0	6101.1	6019.8	5996.6	5976.2	5967.6	5964.6
5°	6583.2	6487.4	6263.8	6080.8	5935.6	5802.1	5717.8	5680.0	5642.4	5642.4	5654.0
7.5°	6670.3	6496.1	6150.5	5877.5	5694.6	5569.7	5508.7	5502.9	5511.7	5520.3	5523.3
10°	6766.1	6490.2	5985.0	5645.2	5482.6	5424.5	5427.4	5476.8	5523.3	5558.1	5563.9
12.5°	6859.0	6455.4	5790.5	5427.4	5322.9	5334.5	5415.8	5526.1	5616.2	5665.6	5668.4
15°	6963.6	6400.3	5555.2	5221.3	5186.4	5276.4	5427.4	5595.8	5732.3	5813.7	5822.3
17.5°	7050.7	6307.3	5308.4	5020.9	5064.4	5229.9	5439.0	5656.8	5822.3	5924.0	5941.4
20°	7149.4	6188.2	5052.8	4829.2	4954.1	5177.7	5415.8	5651.0	5822.3	5921.1	5944.4
22.5°	7227.9	6019.8	4808.9	4672.4	4855.3	5113.8	5337.4	5526.1	5665.6	5717.8	5752.7
25°	7259.8	5807.9	4579.5	4544.6	4777.0	5009.2	5160.3	5267.7	5311.3	5305.4	5320.0
27.5°	7242.4	5563.9	4382.0	4443.0	4678.2	4846.7	4922.1	4913.5	4835.0	4762.4	4797.3
30°	7169.8	5273.5	4216.5	4338.5	4550.5	4643.3	4631.7	4518.5	4370.4	4233.9	4242.6
32.5°	7039.1	4959.9	4062.6	4219.4	4370.4	4411.0	4332.7	4184.6	3972.5	3795.4	3769.3
35°	6928.7	4660.8	3926.1	4082.9	4190.4	4170.0	4094.5	3902.8	3711.2	3554.4	3528.2
37.5°	6911.3	4405.2	3795.4	3929.0	3990.0	3960.9	3868.0	3705.4	3635.7	3516.6	3502.1
40°	7004.3	4225.2	3661.9	3766.4	3795.4	3772.2	3670.5	3577.6	3641.5	3612.5	3612.5
42.5°	7256.9	4129.4	3542.8	3603.8	3627.0	3644.4	3571.8	3493.4	3571.8	3438.3	3394.7
45°	7657.6	4132.3	3435.3	3444.1	3513.8	3574.8	3525.4	3409.2	3368.5	3101.4	3049.1
47.5°	8247.1	4231.0	3348.2	3293.0	3417.9	3519.6	3449.9	3281.4	3101.4	2924.2	2892.3
50°	8935.4	4408.2	3269.8	3136.3	3290.2	3449.9	3397.6	3200.1	3014.2	2906.8	2886.5
52.5°	9699.1	4631.7	3174.0	2962.0	3133.3	3417.9	3409.2	3188.5	2933.0	2860.3	2842.9
55°	10642.9	4852.5	3054.9	2758.7	2994.0	3391.8	3377.3	3092.7	2915.5	2863.3	2857.5
57.5°	11740.5	5171.9	2883.6	2552.5	2834.3	3284.4	3252.4	3034.6	2857.5	2819.7	2816.8
60°	13509.1	5668.4	2639.6	2363.8	2671.6	3095.6	3136.3	2935.8	2764.5	2755.8	2752.9
62.5°	15835.1	6365.4	2387.0	2169.2	2482.9	2851.7	2967.8	2802.3	2665.8	2709.4	2715.2
65°	19046.8	6952.0	2125.6	2003.7	2273.7	2616.4	2808.1	2677.4	2555.5	2639.6	2639.6
67.5°	21140.6	6963.6	1887.5	1832.4	2061.8	2419.0	2639.6	2529.3	2413.2	2555.5	2561.3
70°	20704.9	6101.1	1690.1	1652.3	1855.6	2207.0	2453.8	2366.7	2233.1	2360.9	2314.4
71°	20002.2	5622.0	1611.7	1582.7	1774.3	2105.4	2366.7	2294.1	2160.5	2244.7	2218.6
72.5°	18881.3	4881.5	1483.9	1489.7	1652.3	1977.5	2244.7	2169.2	2035.6	2082.1	2073.4
75°	15959.9	4262.9	1269.0	1295.1	1420.0	1759.8	2000.8	1942.7	1806.2	1806.2	1797.6
77.5°	9977.9	2979.4	1054.1	1068.7	1205.2	1507.2	1719.1	1669.7	1539.1	1495.6	1483.9
80°	3722.9	1539.1	824.7	842.2	926.4	1187.7	1422.9	1376.5	1242.9	1193.5	1147.0
82.5°	1408.4	772.5	606.9	592.4	682.4	906.0	1115.1	1059.9	955.4	836.3	801.5
85°	531.4	383.3	371.7	360.1	400.7	537.2	691.1	679.5	569.2	484.9	476.3
87.5°	139.4	124.9	145.2	107.5	113.3	101.7	104.5	43.6	20.4	8.7	5.8
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)