

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: P648187

Luminaire Tested: **GALN-SA9A-835-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P648187
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-SA9A-835-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32485.1 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

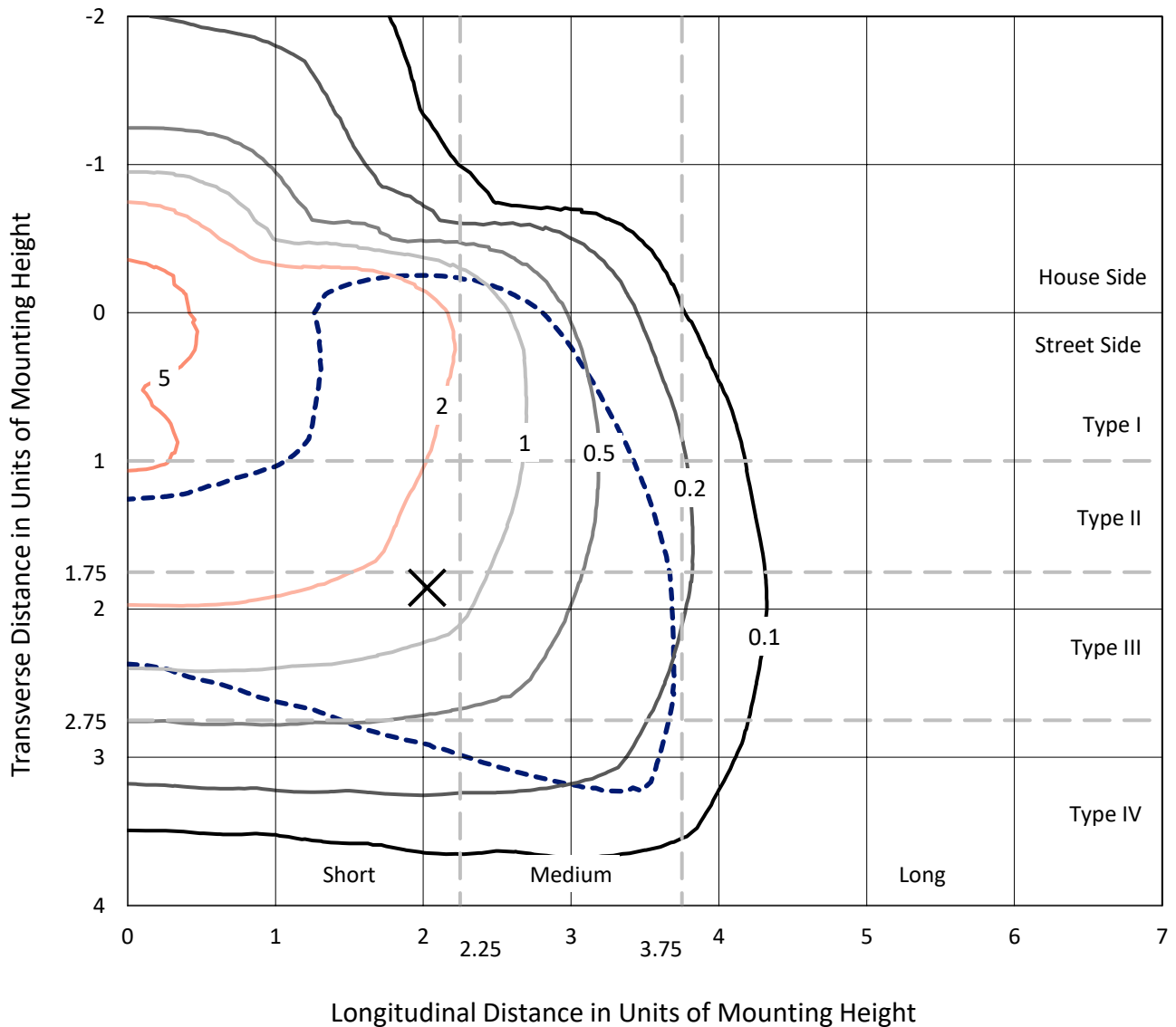
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

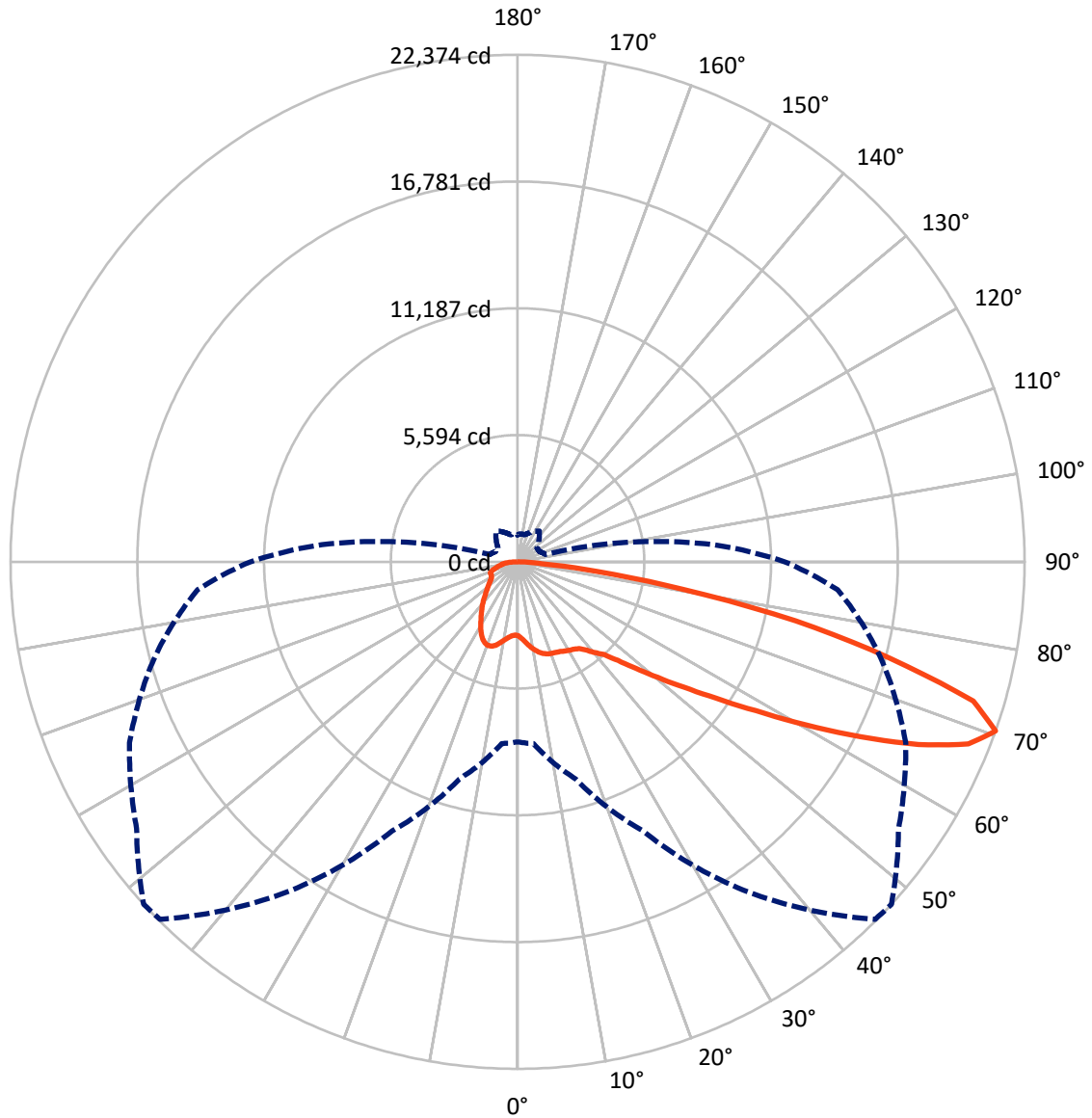
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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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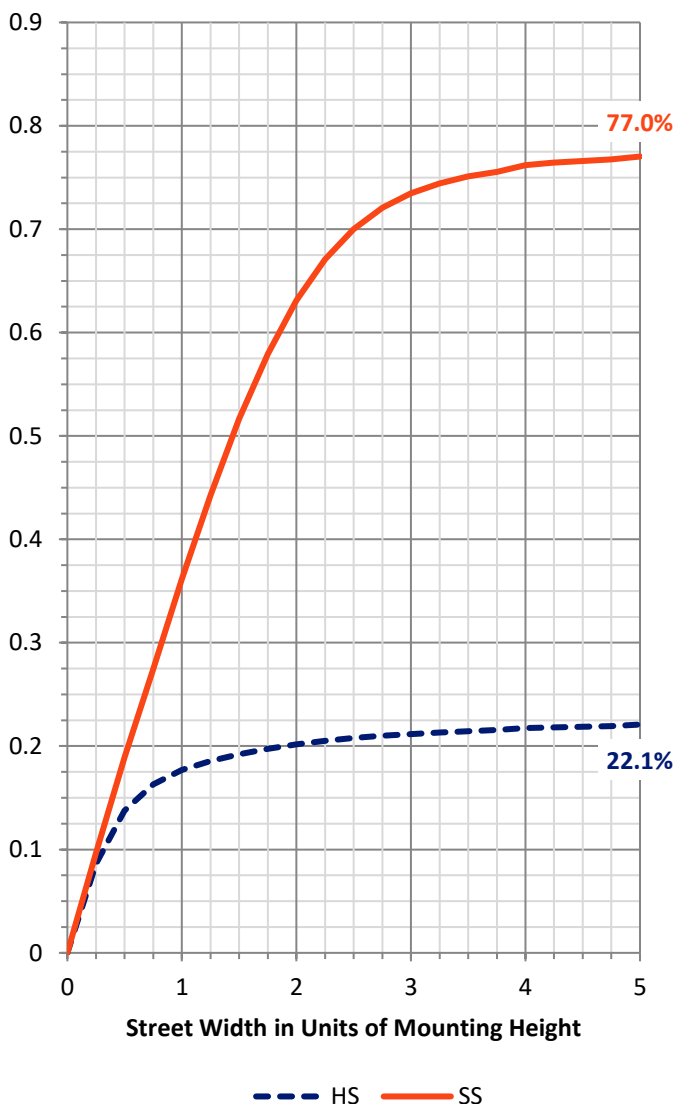
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7355.3	0.0	7355.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	25129.8	0.0	25129.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	32485.1	0.0	32485.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.2	1.0
10°-20°	1123.8	3.5
20°-30°	1868.8	5.8
30°-40°	2648.8	8.2
40°-50°	3910.2	12.0
50°-60°	6772.6	20.8
60°-70°	9566.5	29.4
70°-80°	5499.4	16.9
80°-90°	758.8	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°	32485.1	100.0
0°-180°	32485.1	100.0

Coefficient of Utilization

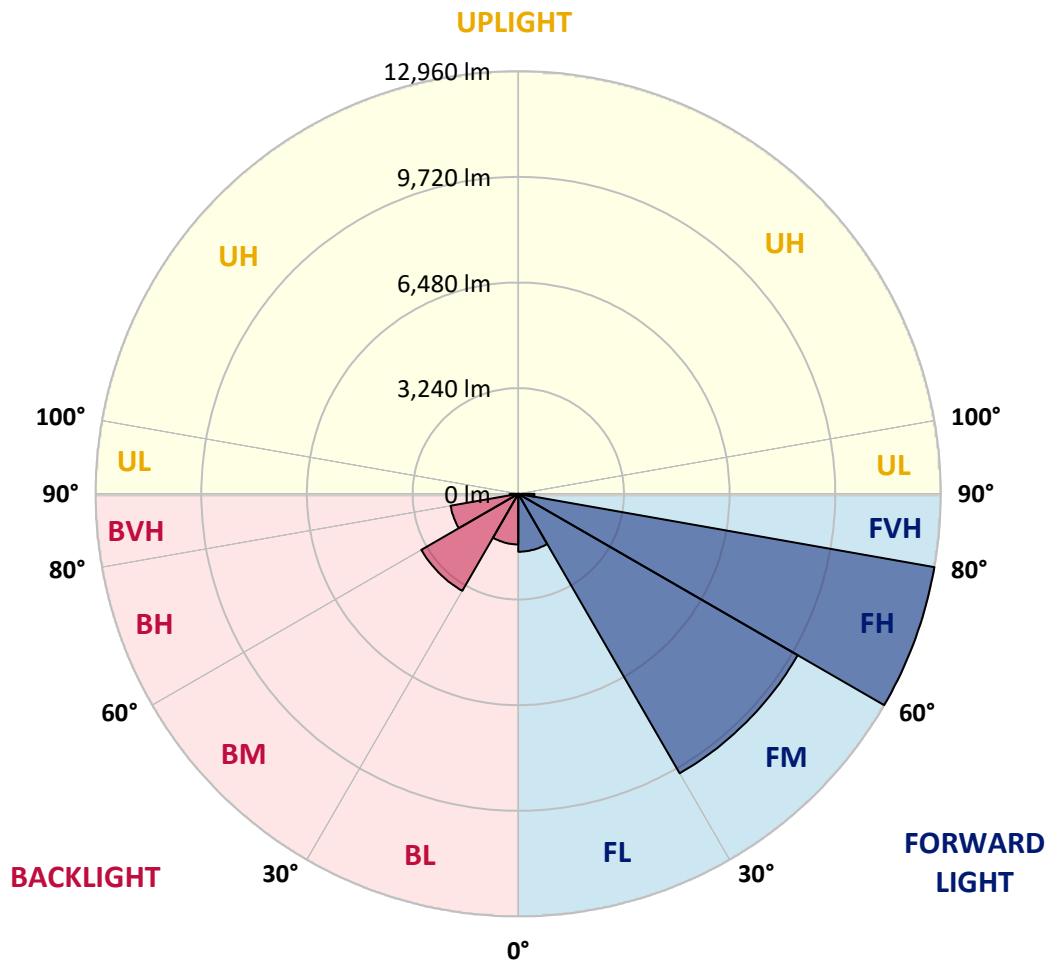


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1776.4	5.5			
FM (30°-60°)	9897.6	30.5			
FH (60°-80°)	12960.2	39.9			G5
FVH (80°-90°)	495.7	1.5			G3/500
BL (0°-30°)	1552.4	4.8	B3/2500		
BM (30°-60°)	3434.0	10.6	B3/5000		
BH (60°-80°)	2105.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	263.1	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	3261.1	3261.1	3261.1	3261.1	3261.1	3261.1	3261.1	3261.1	3261.1	3261.1	3261.1
2.5°	3471.4	3459.3	3457.6	3431.5	3417.6	3391.5	3381.1	3356.7	3327.2	3297.6	3269.8
5°	3744.4	3744.4	3732.2	3695.7	3638.4	3579.2	3553.2	3506.2	3422.8	3355.0	3297.6
7.5°	4024.2	4027.8	4003.4	3949.5	3867.8	3772.2	3747.8	3678.3	3560.1	3461.0	3375.8
10°	4265.9	4265.9	4232.8	4159.8	4057.3	3953.0	3928.6	3850.4	3718.3	3594.9	3483.6
12.5°	4450.1	4450.1	4406.6	4311.0	4199.8	4106.0	4078.1	4003.4	3879.9	3742.7	3601.8
15°	4570.1	4561.4	4512.7	4404.9	4297.2	4215.4	4196.3	4133.8	4020.8	3881.7	3723.5
17.5°	4575.3	4571.8	4524.9	4434.5	4340.6	4285.0	4272.8	4231.1	4142.5	4010.4	3843.4
20°	4474.5	4481.4	4450.1	4385.8	4340.6	4316.3	4311.0	4297.2	4234.5	4111.1	3944.3
22.5°	4366.7	4378.8	4349.3	4314.6	4311.0	4335.4	4338.9	4342.4	4302.4	4182.4	4029.5
25°	4340.6	4349.3	4319.7	4288.5	4307.6	4371.9	4385.8	4399.8	4368.4	4267.6	4130.2
27.5°	4472.7	4465.8	4408.4	4340.6	4352.8	4439.7	4458.8	4474.5	4458.8	4371.9	4255.4
30°	4846.5	4823.9	4709.1	4510.9	4448.4	4509.2	4528.3	4571.8	4571.8	4507.5	4391.1
32.5°	5472.3	5428.9	5218.5	4829.1	4611.8	4575.3	4594.4	4665.7	4702.2	4651.8	4524.9
35°	6231.9	6186.7	5886.0	5362.8	4910.8	4707.4	4702.2	4782.2	4879.5	4766.5	4601.4
37.5°	6995.1	6948.1	6586.5	5999.0	5347.1	4985.5	4954.3	4982.1	5023.8	4816.9	4707.4
40°	7758.2	7702.5	7386.2	6710.0	5880.8	5354.1	5272.3	5147.2	5129.8	4982.1	4912.5
42.5°	8514.3	8463.9	8304.0	7507.9	6520.5	5713.9	5588.7	5373.2	5439.3	5350.6	5289.7
45°	9277.5	9281.0	9110.6	8403.1	7292.3	6377.9	6209.3	5872.1	6028.6	5995.5	6030.3
47.5°	9953.7	9945.0	9884.2	9272.3	8250.2	7233.2	7015.9	6624.8	6892.5	7014.2	7280.2
50°	10609.0	10603.9	10607.3	10257.9	9362.6	8250.2	8010.2	7600.0	8203.2	8625.6	9101.9
52.5°	11547.8	11577.3	11367.0	11274.8	10715.1	9451.4	9187.1	8762.9	9752.0	10417.8	11347.9
55°	12489.9	12465.6	12300.5	12396.1	12130.1	10873.3	10596.9	10259.6	11476.5	12204.9	13602.4
57.5°	13044.5	13053.2	13221.7	13689.3	13877.1	12646.4	12396.1	12135.3	13414.7	13931.0	15608.5
60°	13543.4	13583.3	14068.3	14951.4	15460.7	14824.5	14602.0	14348.2	15193.0	15398.2	17350.3
62.5°	13699.8	13823.2	14669.8	15990.9	17004.4	17282.5	17006.1	16446.4	16886.2	16806.2	18530.6
65°	12919.3	13087.9	14605.5	16380.3	18382.9	19615.3	19439.8	18400.3	18329.0	17847.5	18723.6
67.5°	10864.6	11033.2	12981.9	15563.3	18953.1	21635.3	21459.8	19825.7	19205.1	17944.8	17263.4
70°	7949.4	8055.4	9919.0	13103.6	17807.5	22313.2	22374.1	20521.0	18892.2	16621.9	14174.3
72.5°	4580.5	4815.2	6120.7	9218.4	14548.1	20599.2	21021.7	19074.7	16914.0	13866.7	9910.3
75°	1969.6	1974.7	2830.0	5084.6	9852.9	16557.6	16966.1	15811.9	13282.6	9588.6	5291.5
77.5°	936.9	954.3	1244.7	2270.2	5423.6	11439.9	12542.1	11170.5	8495.2	4606.5	1999.1
80°	608.4	620.6	761.4	1126.4	2659.6	6633.5	7401.9	6444.0	3747.8	1646.2	862.2
82.5°	368.6	372.0	509.3	688.4	1463.7	3003.8	3541.0	2797.0	1599.3	985.6	507.6
85°	224.3	226.0	309.4	425.9	888.3	1037.8	1065.6	1056.9	938.7	645.0	271.2
87.5°	107.7	111.3	159.9	201.6	349.4	321.6	304.2	352.9	443.3	347.7	116.4
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°	3261.1	3261.1	3261.1	3261.1	3261.1	3261.1	3261.1	3261.1	3261.1	3261.1	3261.1
2.5°	3257.7	3252.4	3240.3	3235.0	3231.6	3233.3	3231.6	3231.6	3233.3	3233.3	3233.3
5°	3273.3	3264.6	3245.5	3245.5	3255.9	3280.2	3302.9	3320.2	3339.3	3337.6	3337.6
7.5°	3341.1	3325.4	3302.9	3309.8	3335.9	3374.1	3414.1	3452.3	3490.5	3494.1	3492.3
10°	3440.2	3424.5	3400.2	3408.9	3450.6	3507.9	3558.3	3614.0	3655.7	3667.9	3664.4
12.5°	3553.2	3521.9	3501.0	3525.4	3591.4	3667.9	3716.6	3758.2	3787.8	3805.2	3798.3
15°	3667.9	3638.4	3614.0	3664.4	3744.4	3815.6	3840.0	3847.0	3852.1	3869.5	3866.1
17.5°	3779.1	3739.1	3730.4	3796.5	3873.0	3904.3	3890.4	3860.8	3838.3	3852.1	3850.4
20°	3878.2	3847.0	3843.4	3909.5	3939.0	3909.5	3850.4	3798.3	3758.2	3761.8	3760.0
22.5°	3972.1	3947.7	3951.3	3979.0	3932.1	3831.3	3734.0	3662.6	3619.2	3627.9	3633.1
25°	4076.4	4052.0	4060.7	4015.5	3860.8	3685.3	3544.5	3483.6	3466.3	3483.6	3495.8
27.5°	4212.0	4196.3	4191.1	4017.3	3734.0	3469.7	3309.8	3287.2	3302.9	3341.1	3360.2
30°	4358.0	4358.0	4330.2	3987.7	3560.1	3210.7	3071.6	3075.1	3129.0	3182.9	3202.0
32.5°	4498.8	4528.3	4441.4	3907.8	3335.9	2958.6	2852.6	2856.1	2903.1	2969.1	2986.4
35°	4615.2	4700.4	4537.0	3761.8	3071.6	2746.5	2666.6	2619.7	2621.4	2671.8	2685.7
37.5°	4775.2	4933.4	4592.7	3544.5	2790.1	2565.8	2475.4	2393.7	2339.8	2318.9	2318.9
40°	5053.3	5286.3	4606.5	3222.9	2524.1	2393.7	2265.1	2167.7	2063.4	1969.6	1952.2
42.5°	5524.5	5818.2	4578.7	2852.6	2284.2	2204.2	2079.0	1959.1	1814.8	1682.7	1672.3
45°	6358.8	6510.1	4504.1	2468.4	2070.3	2021.7	1900.0	1769.7	1616.7	1498.4	1489.7
47.5°	7695.6	7481.8	4404.9	2127.7	1875.7	1861.7	1767.9	1616.7	1463.7	1382.0	1373.3
50°	9647.7	9011.5	4391.1	1880.8	1719.2	1726.2	1649.7	1510.6	1376.7	1308.9	1298.5
52.5°	11998.0	10859.3	4483.1	1707.0	1581.9	1608.0	1569.7	1441.1	1322.9	1265.5	1255.1
55°	14278.7	12521.2	4538.8	1571.5	1453.2	1502.0	1507.1	1399.4	1291.6	1234.2	1227.3
57.5°	16130.0	13772.8	4291.9	1448.0	1342.0	1416.8	1455.0	1375.0	1275.9	1232.4	1225.6
60°	17418.1	14363.8	3589.7	1338.5	1260.3	1349.0	1435.9	1376.7	1314.2	1319.4	1322.9
62.5°	17828.4	14101.4	2692.7	1256.8	1204.6	1326.3	1467.2	1448.0	1383.7	1423.7	1430.6
65°	17148.6	13016.7	1952.2	1192.5	1156.0	1342.0	1561.0	1500.1	1359.4	1389.0	1389.0
67.5°	14873.2	11214.0	1519.3	1133.4	1100.3	1371.6	1654.9	1495.0	1302.1	1336.8	1305.5
70°	11798.1	8674.3	1265.5	1067.3	1041.2	1328.1	1663.6	1441.1	1234.2	1241.1	1182.1
72.5°	7829.5	5703.5	1088.2	1004.7	950.9	1194.2	1592.3	1371.6	1168.2	1128.1	1069.1
75°	3836.5	2843.9	949.2	926.5	832.6	1039.5	1495.0	1305.5	1096.9	1034.3	1001.3
77.5°	1486.3	1209.9	810.1	827.5	724.9	916.1	1366.3	1211.6	1003.0	917.8	891.8
80°	721.4	686.6	664.1	690.1	596.3	780.5	1248.1	1129.9	916.1	822.2	784.0
82.5°	448.5	424.2	509.3	537.1	458.9	712.7	1183.8	1060.4	806.6	681.4	650.1
85°	227.7	243.4	340.7	366.8	328.5	566.7	975.2	796.2	582.3	483.3	486.7
87.5°	86.9	116.4	179.1	192.9	175.5	299.0	537.1	464.2	373.7	253.8	234.7
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)