

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: P650992

Luminaire Tested: **GALN-SA6C-840-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650992  
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-SA6C-840-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35086.5 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

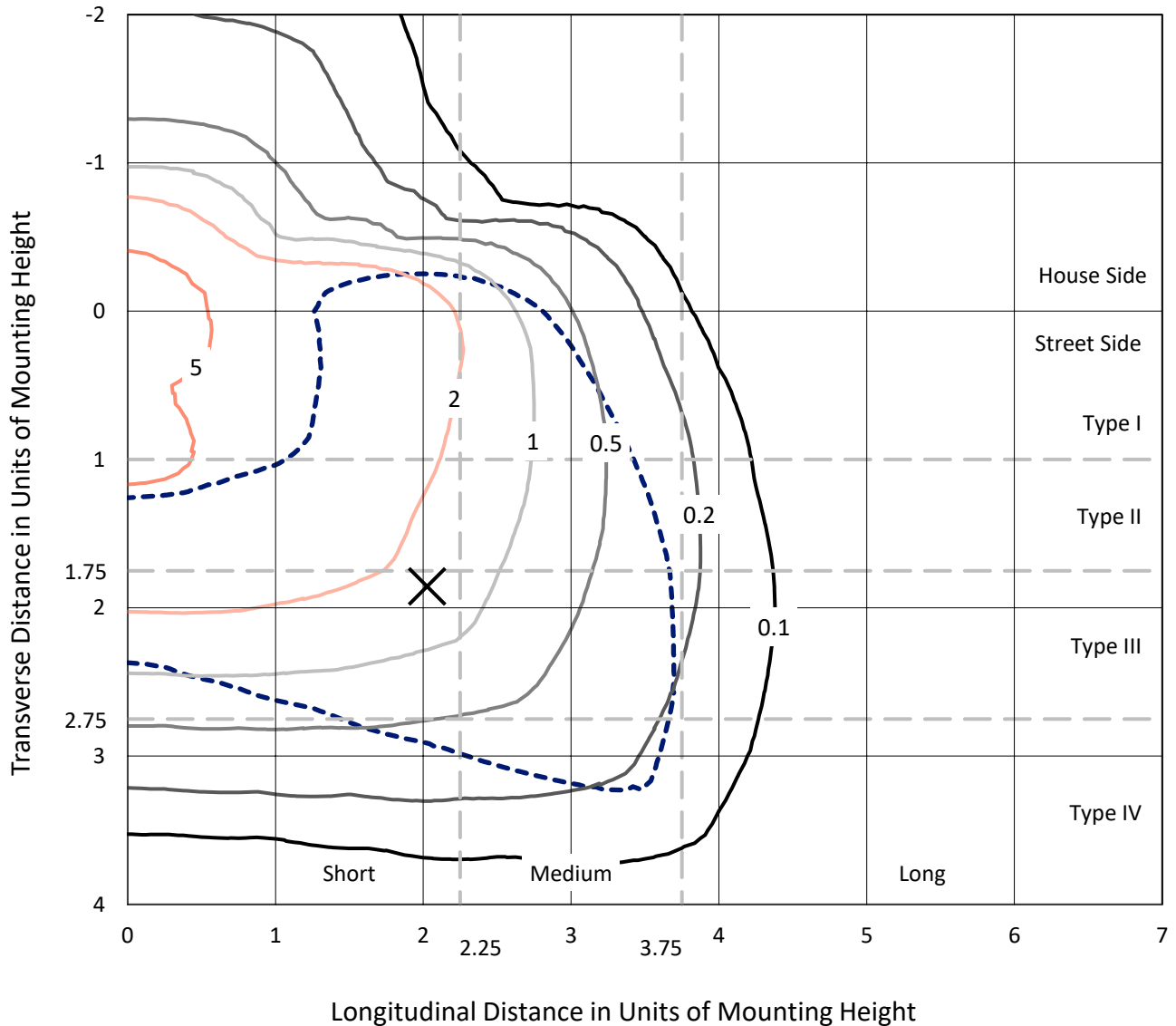
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

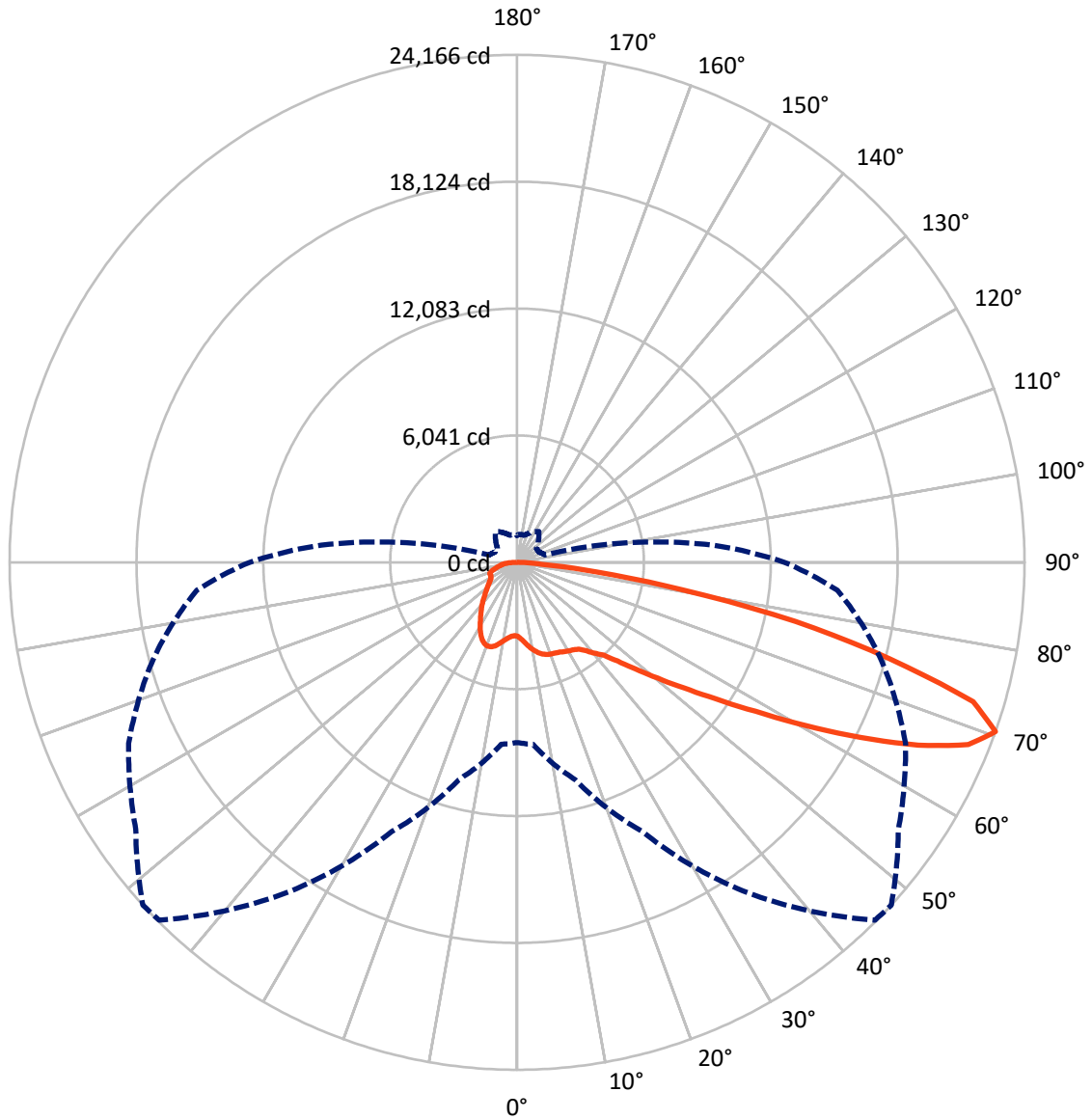
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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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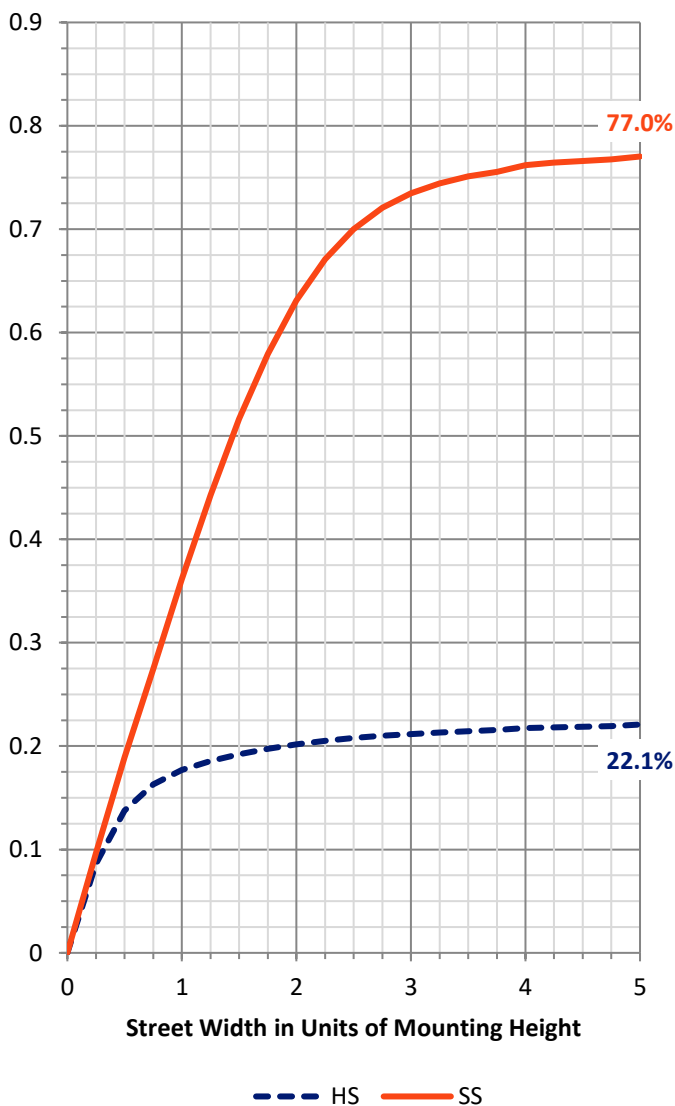
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7944.3	0.0	7944.3
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	27142.2	0.0	27142.2
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	35086.5	0.0	35086.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	363.1	1.0
10°-20°	1213.8	3.5
20°-30°	2018.5	5.8
30°-40°	2860.9	8.2
40°-50°	4223.3	12.0
50°-60°	7315.0	20.8
60°-70°	10332.6	29.4
70°-80°	5939.8	16.9
80°-90°	819.5	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°	35086.5	100.0
0°-180°	35086.5	100.0

**Coefficient of Utilization**



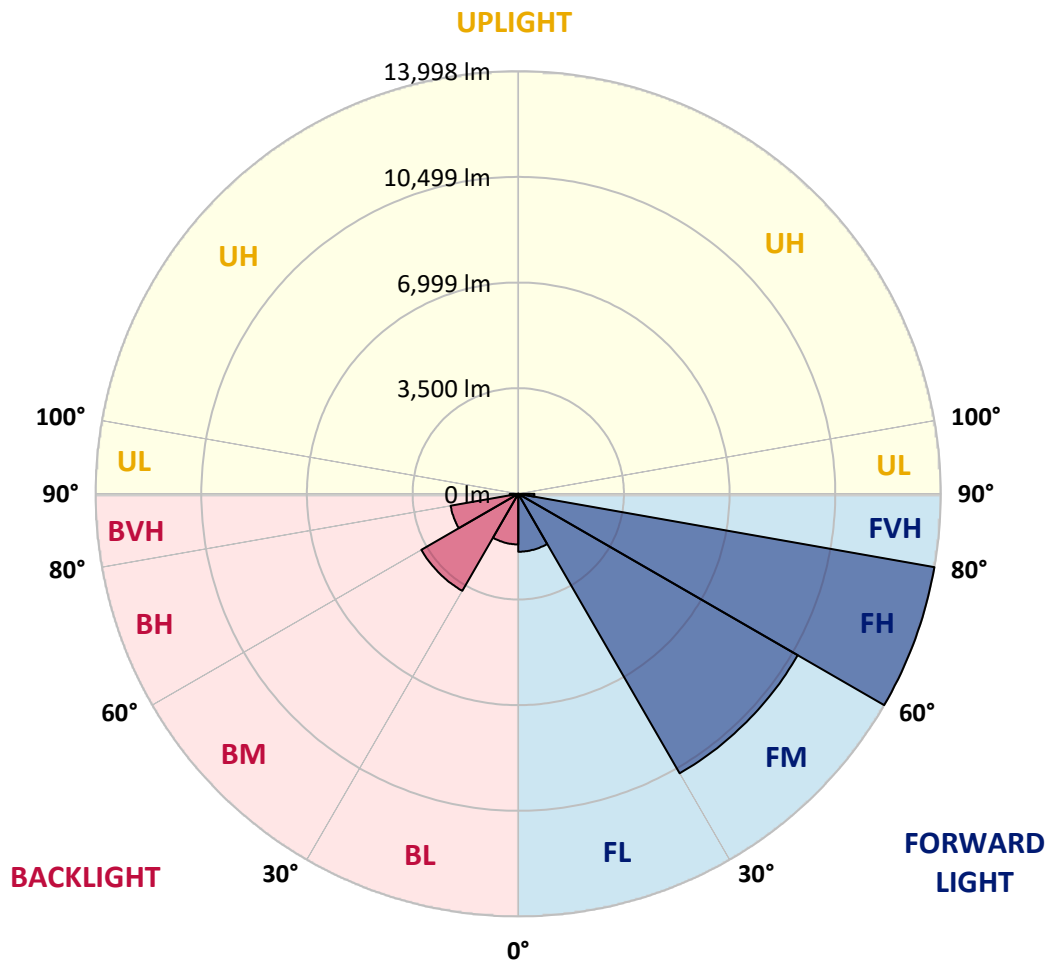
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1918.7	5.5			
FM (30°-60°)	10690.2	30.5			
FH (60°-80°)	13998.1	39.9			G5
FVH (80°-90°)	535.3	1.5			G4/750
BL (0°-30°)	1676.7	4.8	B3/2500		
BM (30°-60°)	3709.0	10.6	B3/5000		
BH (60°-80°)	2274.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	284.2	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°	3522.3	3522.3	3522.3	3522.3	3522.3	3522.3	3522.3	3522.3	3522.3	3522.3	3522.3
2.5°	3749.4	3736.3	3734.5	3706.3	3691.2	3663.1	3651.8	3625.6	3593.6	3561.7	3531.6
5°	4044.2	4044.2	4031.1	3991.6	3929.7	3865.8	3837.7	3787.0	3696.9	3623.6	3561.7
7.5°	4346.5	4350.2	4324.0	4265.8	4177.5	4074.2	4048.0	3972.9	3845.2	3738.2	3646.2
10°	4607.5	4607.5	4571.8	4493.0	4382.2	4269.5	4243.3	4158.7	4016.0	3882.7	3762.5
12.5°	4806.5	4806.5	4759.6	4656.3	4536.1	4434.8	4404.7	4324.0	4190.7	4042.4	3890.3
15°	4936.1	4926.7	4874.1	4757.7	4641.3	4553.0	4532.4	4464.8	4342.8	4192.6	4021.7
17.5°	4941.7	4937.9	4887.2	4789.6	4688.2	4628.1	4615.0	4569.9	4474.2	4331.5	4151.3
20°	4832.8	4840.3	4806.5	4737.0	4688.2	4661.9	4656.3	4641.3	4573.7	4440.4	4260.2
22.5°	4716.4	4729.5	4697.6	4660.1	4656.3	4682.6	4686.3	4690.1	4646.9	4517.3	4352.2
25°	4688.2	4697.6	4665.7	4631.9	4652.6	4722.0	4737.0	4752.1	4718.3	4609.4	4461.0
27.5°	4830.9	4823.4	4761.4	4688.2	4701.4	4795.2	4815.9	4832.8	4815.9	4722.0	4596.2
30°	5234.6	5210.2	5086.3	4872.2	4804.6	4870.3	4891.0	4937.9	4937.9	4868.5	4742.7
32.5°	5910.5	5863.5	5636.4	5215.8	4981.1	4941.7	4962.3	5039.4	5078.7	5024.3	4887.2
35°	6730.9	6682.2	6357.4	5792.2	5304.0	5084.3	5078.7	5165.1	5270.3	5148.2	4969.9
37.5°	7555.2	7504.5	7114.0	6479.4	5775.3	5384.8	5350.9	5381.1	5426.0	5202.7	5084.3
40°	8379.5	8319.3	7977.6	7247.3	6351.7	5782.8	5694.6	5559.4	5540.6	5381.1	5306.0
42.5°	9196.2	9141.8	8969.0	8109.1	7042.6	6171.5	6036.3	5803.5	5874.8	5779.1	5713.3
45°	10020.4	10024.2	9840.2	9076.0	7876.3	6888.7	6706.6	6342.3	6511.3	6475.6	6513.2
47.5°	10750.8	10741.4	10675.7	10014.8	8910.8	7812.5	7577.7	7155.3	7444.4	7575.9	7863.1
50°	11458.6	11453.0	11456.8	11079.3	10112.4	8910.8	8651.7	8208.6	8860.1	9316.3	9830.8
52.5°	12472.5	12504.4	12277.3	12177.8	11573.2	10208.1	9922.8	9464.7	10533.0	11252.1	12256.6
55°	13490.1	13463.8	13285.4	13388.7	13101.4	11744.0	11445.5	11081.3	12395.5	13182.2	14691.8
57.5°	14089.0	14098.4	14280.6	14785.6	14988.4	13659.1	13388.7	13107.1	14489.0	15046.6	16858.4
60°	14627.9	14671.1	15194.9	16148.7	16698.8	16011.6	15771.4	15497.2	16409.7	16631.3	18739.8
62.5°	14796.9	14930.2	15844.5	17271.4	18366.1	18666.5	18367.9	17763.4	18238.4	18152.1	20014.5
65°	13953.9	14136.0	15775.1	17692.0	19855.0	21186.1	20996.5	19873.8	19796.8	19276.7	20222.9
67.5°	11734.6	11916.7	14021.5	16809.6	20470.8	23367.9	23178.2	21413.4	20743.1	19381.9	18645.8
70°	8586.0	8700.5	10713.2	14152.9	19233.5	24100.1	24165.8	22164.4	20405.1	17953.0	15309.5
72.5°	4947.4	5200.7	6610.8	9956.6	15713.2	22248.8	22705.1	20602.2	18268.5	14977.1	10703.8
75°	2127.2	2132.9	3056.6	5491.8	10641.9	17883.5	18324.8	17078.1	14346.3	10356.5	5715.3
77.5°	1012.0	1030.7	1344.3	2452.1	5857.9	12356.1	13546.4	12065.1	9175.6	4975.4	2159.2
80°	657.2	670.3	822.3	1216.7	2872.6	7164.7	7994.5	6960.0	4048.0	1778.0	931.2
82.5°	398.0	401.8	550.1	743.5	1580.9	3244.4	3824.5	3021.0	1727.3	1064.5	548.2
85°	242.2	244.1	334.2	460.0	959.4	1120.9	1150.9	1141.6	1013.9	696.6	292.9
87.5°	116.4	120.2	172.7	217.8	377.4	347.3	328.6	381.1	478.8	375.5	125.8
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°	3522.3	3522.3	3522.3	3522.3	3522.3	3522.3	3522.3	3522.3	3522.3	3522.3	3522.3
2.5°	3518.5	3512.9	3499.7	3494.1	3490.3	3492.3	3490.3	3490.3	3492.3	3492.3	3492.3
5°	3535.4	3526.1	3505.4	3505.4	3516.6	3542.9	3567.4	3586.1	3606.7	3604.9	3604.9
7.5°	3608.6	3591.7	3567.4	3574.8	3603.0	3644.3	3687.4	3728.8	3770.1	3773.8	3772.0
10°	3715.6	3698.7	3672.5	3681.8	3726.9	3788.9	3843.3	3903.4	3948.5	3961.6	3957.8
12.5°	3837.7	3803.9	3781.4	3807.6	3879.0	3961.6	4014.2	4059.3	4091.1	4110.0	4102.4
15°	3961.6	3929.7	3903.4	3957.8	4044.2	4121.2	4147.5	4155.0	4160.6	4179.4	4175.6
17.5°	4081.8	4038.6	4029.2	4100.5	4183.1	4216.9	4202.0	4170.0	4145.6	4160.6	4158.7
20°	4188.8	4155.0	4151.3	4222.6	4254.5	4222.6	4158.7	4102.4	4059.3	4063.0	4061.1
22.5°	4290.2	4263.9	4267.7	4297.7	4247.0	4138.1	4032.9	3956.0	3909.1	3918.4	3924.0
25°	4402.8	4376.6	4385.9	4337.1	4170.0	3980.4	3828.3	3762.5	3743.8	3762.5	3775.8
27.5°	4549.3	4532.4	4526.8	4339.0	4032.9	3747.6	3574.8	3550.4	3567.4	3608.6	3629.3
30°	4707.0	4707.0	4677.0	4307.1	3845.2	3467.8	3317.6	3321.4	3379.6	3437.8	3458.4
32.5°	4859.0	4891.0	4797.1	4220.7	3603.0	3195.5	3081.0	3084.8	3135.5	3206.8	3225.6
35°	4984.9	5076.9	4900.3	4063.0	3317.6	2966.5	2880.2	2829.5	2831.3	2885.8	2900.8
37.5°	5157.6	5328.5	4960.5	3828.3	3013.5	2771.3	2673.6	2585.4	2527.2	2504.7	2504.7
40°	5458.0	5709.6	4975.4	3481.0	2726.2	2585.4	2446.5	2341.3	2228.6	2127.2	2108.5
42.5°	5966.8	6284.1	4945.4	3081.0	2467.1	2380.7	2245.6	2116.0	1960.1	1817.5	1806.2
45°	6868.0	7031.3	4864.7	2666.1	2236.1	2183.6	2052.1	1911.3	1746.1	1618.4	1609.1
47.5°	8311.9	8080.9	4757.7	2298.1	2025.9	2010.8	1909.5	1746.1	1580.9	1492.6	1483.3
50°	10420.3	9733.1	4742.7	2031.5	1856.9	1864.4	1781.8	1631.5	1487.0	1413.8	1402.5
52.5°	12958.8	11729.0	4842.1	1843.7	1708.6	1736.7	1695.5	1556.4	1428.8	1366.9	1355.6
55°	15422.1	13524.0	4902.3	1697.3	1569.6	1622.2	1627.8	1511.4	1395.1	1333.1	1325.6
57.5°	17421.7	14875.8	4635.7	1564.0	1449.5	1530.2	1571.5	1485.1	1378.1	1331.1	1323.6
60°	18812.9	15514.1	3877.1	1445.7	1361.2	1456.9	1550.9	1487.0	1419.4	1425.1	1428.8
62.5°	19256.0	15230.6	2908.3	1357.5	1301.1	1432.6	1584.6	1564.0	1494.5	1537.7	1545.3
65°	18521.9	14059.0	2108.5	1288.0	1248.5	1449.5	1686.0	1620.4	1468.2	1500.2	1500.2
67.5°	16064.2	12112.0	1641.0	1224.2	1188.5	1481.3	1787.4	1614.7	1406.2	1443.8	1410.0
70°	12742.8	9368.9	1366.9	1152.8	1124.7	1434.4	1796.8	1556.4	1333.1	1340.6	1276.7
72.5°	8456.4	6160.2	1175.4	1085.2	1027.0	1289.8	1719.8	1481.3	1261.7	1218.5	1154.7
75°	4143.7	3071.7	1025.1	1000.7	899.4	1122.7	1614.7	1410.0	1184.7	1117.1	1081.4
77.5°	1605.3	1306.7	874.9	893.7	783.0	989.4	1475.8	1308.7	1083.4	991.4	963.2
80°	779.2	741.6	717.2	745.4	644.0	843.0	1348.0	1220.4	989.4	888.1	846.8
82.5°	484.4	458.1	550.1	580.1	495.7	769.8	1278.6	1145.3	871.2	736.0	702.2
85°	246.0	262.9	368.0	396.2	354.8	612.1	1053.3	859.9	629.0	521.9	525.7
87.5°	93.9	125.8	193.3	208.4	189.6	322.9	580.1	501.3	403.7	274.1	253.5
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)