

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: P650977

Luminaire Tested: **GALN-SA6C-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650977  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-840-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30809.2 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

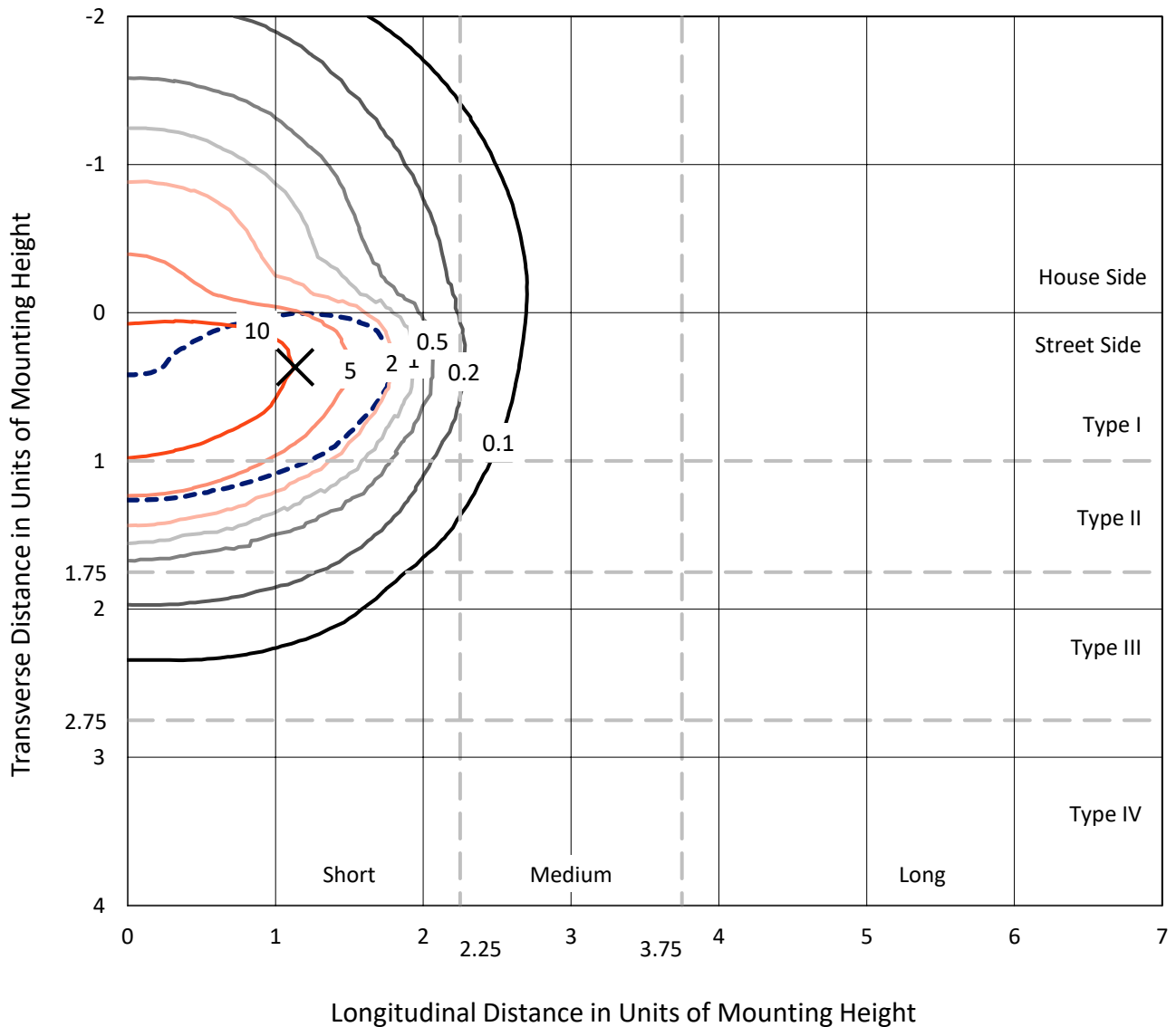
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

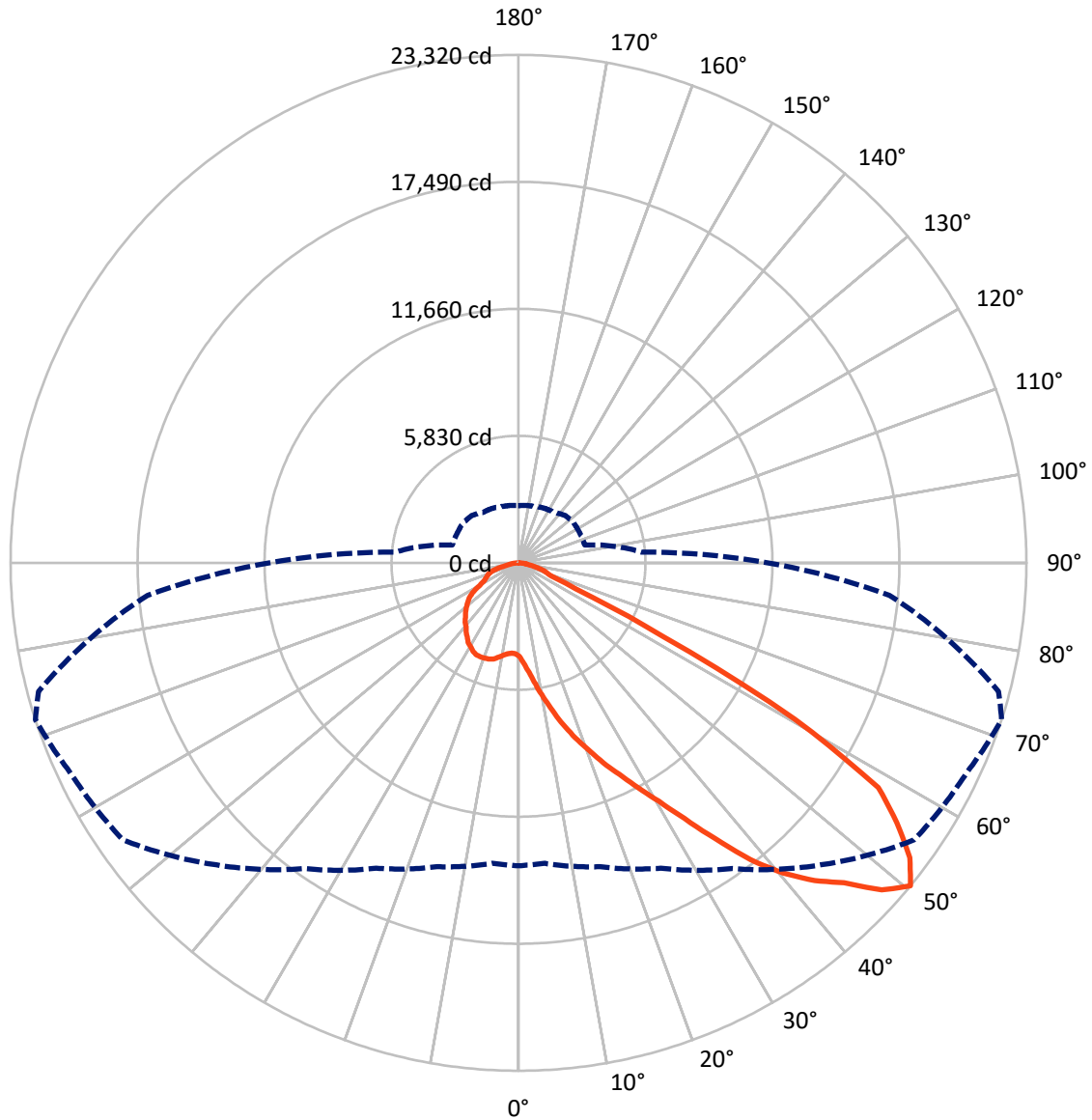
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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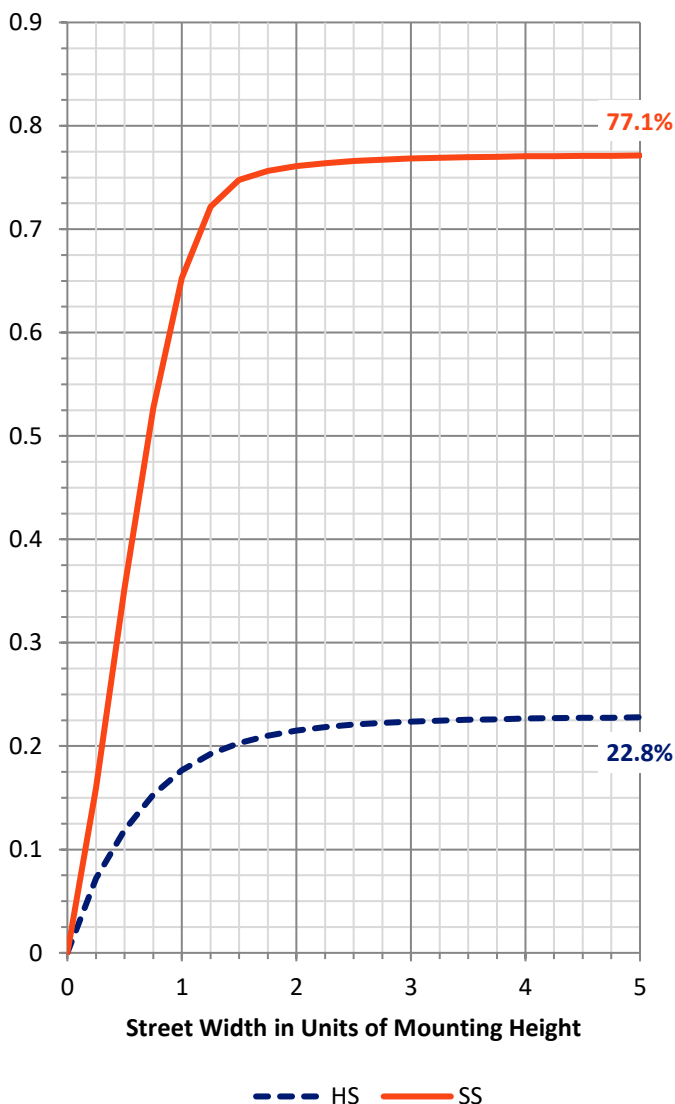
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7058.6	0.0	7058.6
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	23750.6	0.0	23750.6
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	30809.2	0.0	30809.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	504.5	1.6
10°-20°	1885.9	6.1
20°-30°	3656.7	11.9
30°-40°	6057.9	19.7
40°-50°	8476.3	27.5
50°-60°	7150.8	23.2
60°-70°	2179.6	7.1
70°-80°	764.7	2.5
80°-90°	132.9	0.4
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°	30809.2	100.0
0°-180°	30809.2	100.0

**Coefficient of Utilization**

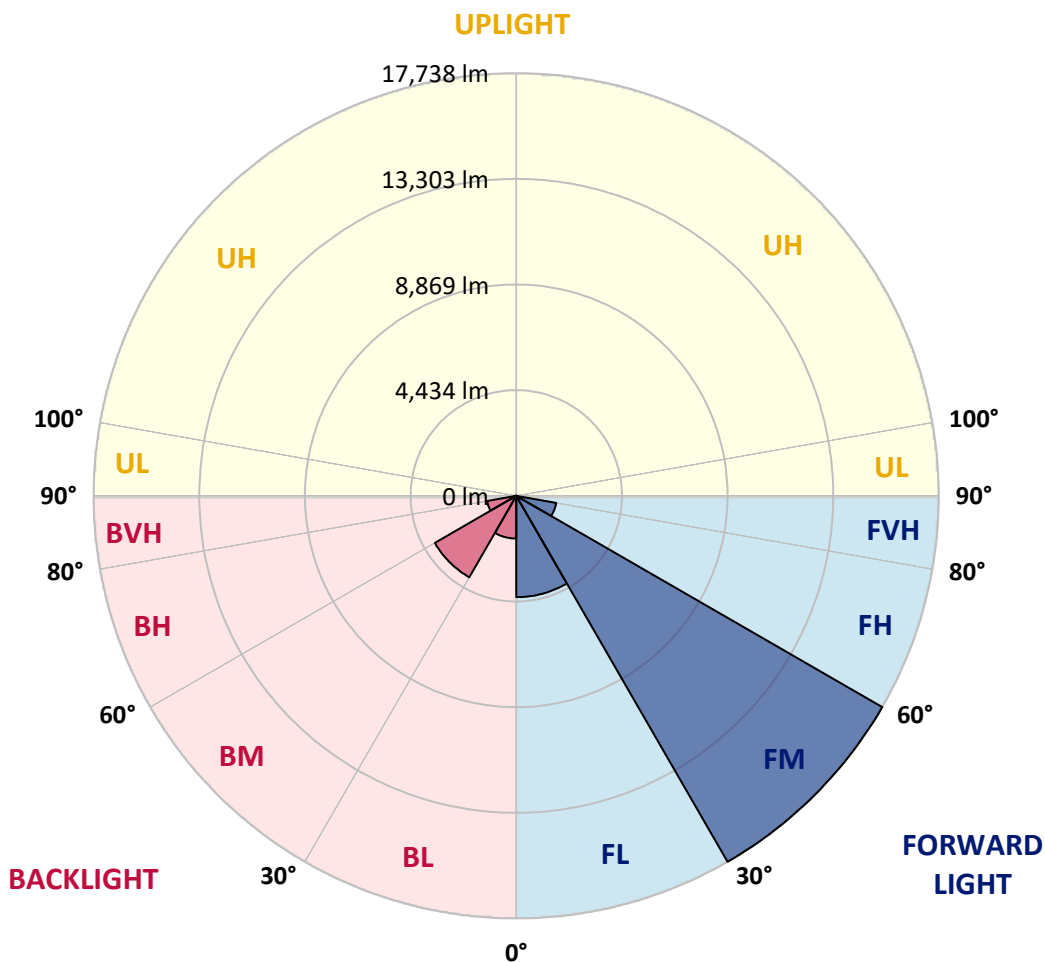


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4252.8	13.8			
FM (30°-60°)	17737.7	57.6			
FH (60°-80°)	1700.6	5.5			G1/1800
FVH (80°-90°)	59.5	0.2			G1/100
BL (0°-30°)	1794.3	5.8	B3/2500		
BM (30°-60°)	3947.3	12.8	B3/5000		
BH (60°-80°)	1243.6	4.0	B3/2500		G3/2500
BVH (80°-90°)	73.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4288.9	4288.9	4288.9	4288.9	4288.9	4288.9	4288.9	4288.9	4288.9	4288.9	4288.9
2.5°	5516.5	5482.1	5379.2	5344.9	5222.9	5001.8	4925.6	4700.6	4605.3	4517.7	4414.7
5°	6976.6	6816.5	6805.0	6610.6	6328.5	6164.6	5676.6	5348.8	5047.6	4895.0	4613.0
7.5°	7906.8	7910.6	7910.6	7750.5	7525.6	7110.1	6671.7	6080.7	5627.0	5402.1	4921.8
10°	8791.3	8715.0	8673.1	8657.8	8505.4	8101.3	7632.3	6900.4	6279.0	6015.9	5154.3
12.5°	9416.5	9351.8	9447.0	9397.5	9286.9	9023.8	8581.6	7746.7	6969.0	6614.5	5527.9
15°	9713.9	9759.6	9835.9	9973.2	9923.5	9824.5	9336.4	8616.0	7712.4	7312.1	5859.6
17.5°	10171.4	10045.6	10137.1	10308.6	10445.9	10400.1	10121.8	9244.9	8448.2	7956.4	6305.6
20°	10491.6	10419.1	10464.9	10663.1	10766.1	11025.3	10880.4	10068.5	9153.4	8635.0	6831.8
22.5°	11406.6	11299.8	11151.2	11181.7	11219.8	11402.8	11437.1	10971.9	9973.2	9424.2	7331.2
25°	12535.0	12436.0	12260.5	12081.4	11970.8	11936.5	12054.6	11681.1	10758.5	10190.4	7868.7
27.5°	13777.9	13610.2	13499.6	13129.8	12832.4	12786.6	12729.5	12527.4	11688.7	11074.9	8474.8
30°	14986.4	14853.0	14704.3	14113.3	13804.5	13755.0	13472.9	13530.1	12698.9	12016.5	9161.1
32.5°	15901.4	15912.8	15573.5	15127.4	14837.7	14574.6	14471.7	14635.7	13995.2	13446.2	9927.4
35°	16641.0	16675.3	16351.2	15947.1	15634.4	15817.4	15771.7	15848.0	15542.9	14872.0	10819.5
37.5°	17361.4	17190.0	16843.0	16648.6	16484.6	16785.8	17174.6	17239.5	17296.7	16507.5	11856.4
40°	17479.7	17494.9	17292.9	17430.1	17224.3	17677.9	18581.4	18497.5	18730.1	18040.0	12981.1
42.5°	17311.9	17346.2	17426.3	17620.7	18116.3	18661.5	20003.4	19660.3	19942.5	19328.6	14075.2
45°	17037.4	16896.4	16995.5	17735.1	18592.8	19805.2	21303.5	21036.6	20945.1	20430.4	15379.0
47.5°	15725.9	15870.8	16179.7	17090.8	18379.4	20003.4	22226.0	22165.1	22439.6	22077.3	16564.7
50°	13907.4	13850.3	14445.0	15470.5	17132.8	19614.6	22176.5	22729.3	23320.2	22817.0	17094.6
52.5°	10415.4	10720.3	11231.2	12504.5	14875.9	17494.9	21093.8	22016.4	22496.8	22389.9	16667.6
55°	6583.9	6675.4	6984.3	8497.7	10632.7	14040.9	18082.0	20220.8	21078.5	21478.8	16274.9
57.5°	3198.6	3027.0	3404.5	4620.5	6141.7	9443.2	13945.6	17613.1	19477.3	20201.7	15421.0
60°	1669.8	1734.6	1883.3	2317.9	3175.7	4902.7	8692.2	11738.3	14586.1	15699.3	11688.7
62.5°	1383.9	1406.7	1505.9	1723.2	2112.1	2821.1	4437.6	5722.3	7437.9	8440.5	6648.8
65°	1174.2	1185.6	1292.4	1437.3	1685.0	1986.3	2283.6	2390.4	2893.5	2969.8	2363.6
67.5°	979.8	991.2	1105.6	1242.8	1403.0	1483.0	1559.2	1551.6	1608.8	1586.0	1582.1
70°	754.9	766.3	884.5	1029.3	1109.4	1063.6	1300.0	1353.4	1376.3	1395.3	1425.8
72.5°	545.1	568.0	659.5	762.5	720.6	827.3	1071.3	1151.3	1181.9	1193.3	1231.4
75°	396.4	404.1	427.0	396.4	457.5	575.7	754.9	854.0	892.1	903.6	960.7
77.5°	175.3	179.2	183.0	228.8	293.6	358.4	449.9	529.9	583.3	598.5	613.8
80°	91.5	95.3	118.2	156.3	209.7	263.1	327.8	373.6	407.9	411.8	427.0
82.5°	57.2	61.0	83.8	110.6	148.7	194.4	240.2	278.3	304.9	308.8	312.6
85°	26.7	34.3	49.5	68.6	99.2	125.8	129.6	110.6	118.2	122.0	114.4
87.5°	7.7	11.4	15.2	11.4	15.2	15.2	19.1	22.9	22.9	22.9	26.7
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°	4288.9	4288.9	4288.9	4288.9	4288.9	4288.9	4288.9	4288.9	4288.9	4288.9	4288.9
2.5°	4357.6	4323.2	4189.8	4140.2	4010.6	4033.4	3964.8	3961.0	3945.8	3942.0	3938.2
5°	4464.3	4357.6	4197.4	4075.4	4003.0	3995.3	3945.8	3945.8	3961.0	3972.5	3945.8
7.5°	4639.6	4517.7	4247.0	4132.6	4067.7	4056.3	4022.0	3995.3	4029.7	4018.2	3987.7
10°	4841.7	4628.2	4342.3	4243.2	4136.4	4109.7	4109.7	4121.2	4064.0	4083.1	4052.5
12.5°	5066.6	4780.7	4464.3	4349.9	4224.1	4208.9	4201.2	4117.4	4147.8	4132.6	4056.3
15°	5352.5	4956.1	4620.5	4426.2	4319.4	4250.8	4151.7	4136.4	4117.4	4079.2	4044.9
17.5°	5661.4	5146.7	4693.0	4449.1	4288.9	4239.3	4163.1	4083.1	4025.9	4033.4	4006.8
20°	5924.4	5322.0	4719.7	4471.9	4266.1	4170.7	4052.5	4003.0	3942.0	3938.2	3934.4
22.5°	6237.0	5558.4	4757.8	4410.9	4197.4	4098.3	4018.2	3930.6	3888.6	3835.2	3862.0
25°	6610.6	5649.9	4765.4	4376.6	4147.8	3972.5	3930.6	3835.2	3820.0	3743.7	3759.0
27.5°	6881.3	5699.5	4704.5	4269.8	4033.4	3900.1	3823.8	3755.1	3728.5	3671.3	3656.1
30°	7243.4	5775.7	4574.8	4136.4	3919.1	3770.5	3724.7	3709.4	3633.2	3572.1	3564.6
32.5°	7655.2	5825.3	4490.9	3999.1	3800.9	3686.5	3709.4	3637.0	3541.7	3488.3	3473.1
35°	7983.1	5844.4	4281.3	3842.9	3720.8	3648.4	3621.8	3606.5	3469.2	3419.7	3381.6
37.5°	8482.5	5802.4	4105.9	3732.3	3633.2	3606.5	3583.6	3480.6	3324.4	3252.0	3198.6
40°	9065.8	5791.0	3881.0	3576.0	3549.3	3579.8	3511.2	3351.0	3133.7	3053.7	3015.6
42.5°	9626.2	5871.0	3739.9	3492.1	3457.8	3469.2	3373.9	3133.7	3027.0	2981.3	2920.3
45°	10564.1	6038.8	3507.4	3362.5	3347.3	3339.6	3225.2	2973.6	2912.6	2855.4	2844.0
47.5°	11410.4	5928.2	3358.7	3229.1	3244.3	3202.4	2958.4	2878.3	2809.7	2752.5	2733.5
50°	11460.0	5665.1	3149.0	3126.2	3129.9	3057.5	2824.9	2771.6	2683.9	2645.8	2619.1
52.5°	11200.7	5234.4	2954.6	2962.2	2973.6	2855.4	2661.0	2622.9	2550.5	2497.1	2481.9
55°	10472.6	4563.4	2763.9	2794.5	2824.9	2600.0	2539.1	2443.7	2386.5	2310.3	2314.1
57.5°	9225.9	3675.1	2497.1	2546.6	2611.5	2363.6	2317.9	2199.7	2115.9	2054.9	2047.2
60°	6183.6	2615.3	2096.8	2115.9	2260.7	2161.6	2157.8	2039.6	1925.2	1871.9	1841.4
62.5°	3648.4	1997.7	1810.8	1791.8	1788.0	1845.2	1940.5	1898.6	1749.9	1646.9	1677.5
65°	1910.0	1727.0	1685.0	1620.3	1582.1	1566.9	1639.3	1658.4	1559.2	1448.7	1441.1
67.5°	1605.0	1605.0	1570.7	1547.8	1494.5	1429.6	1383.9	1322.9	1307.7	1277.1	1239.0
70°	1460.1	1498.2	1486.8	1433.5	1387.7	1315.2	1197.1	1097.9	1002.6	968.3	991.2
72.5°	1273.4	1311.5	1311.5	1284.8	1223.7	1113.2	998.9	884.5	804.4	743.4	735.8
75°	979.8	998.9	1044.6	1014.1	934.0	865.4	747.2	629.1	552.8	495.6	484.2
77.5°	625.2	655.7	655.7	651.9	594.8	529.9	453.6	369.8	312.6	270.7	259.3
80°	415.5	434.6	449.9	434.6	396.4	346.9	289.7	232.5	190.7	156.3	148.7
82.5°	304.9	327.8	339.3	324.0	285.9	247.8	205.9	163.9	122.0	95.3	87.7
85°	118.2	122.0	137.3	163.9	160.1	156.3	125.8	91.5	68.6	49.5	45.8
87.5°	30.5	26.7	30.5	30.5	26.7	22.9	22.9	22.9	22.9	11.4	15.2
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)