

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: P652477

Luminaire Tested: **GALN-SA6B-840-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652477  
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-SA6B-840-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28398 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 243  
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

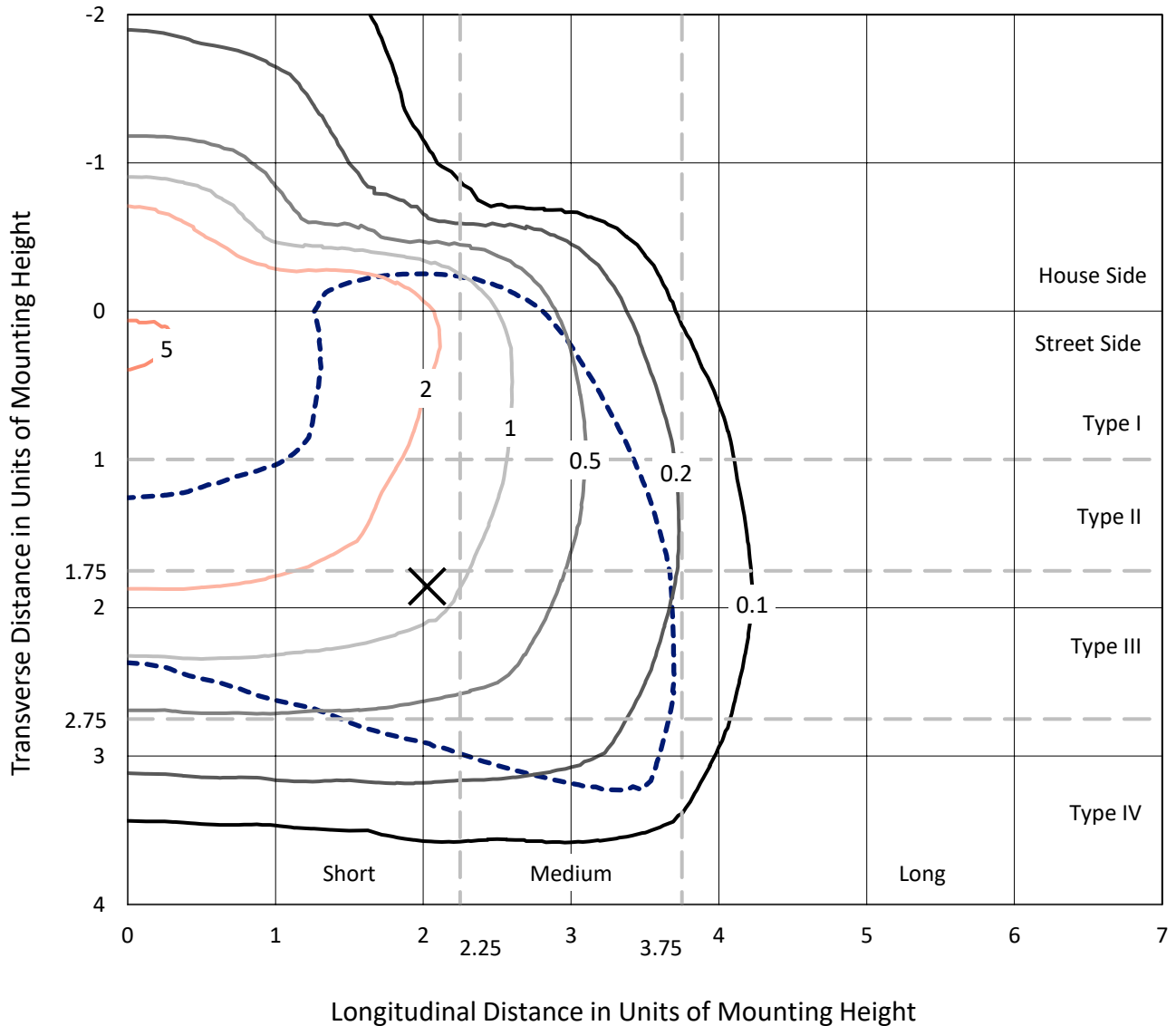




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### Iso-Footcandle Lines of Horizontal Illumination

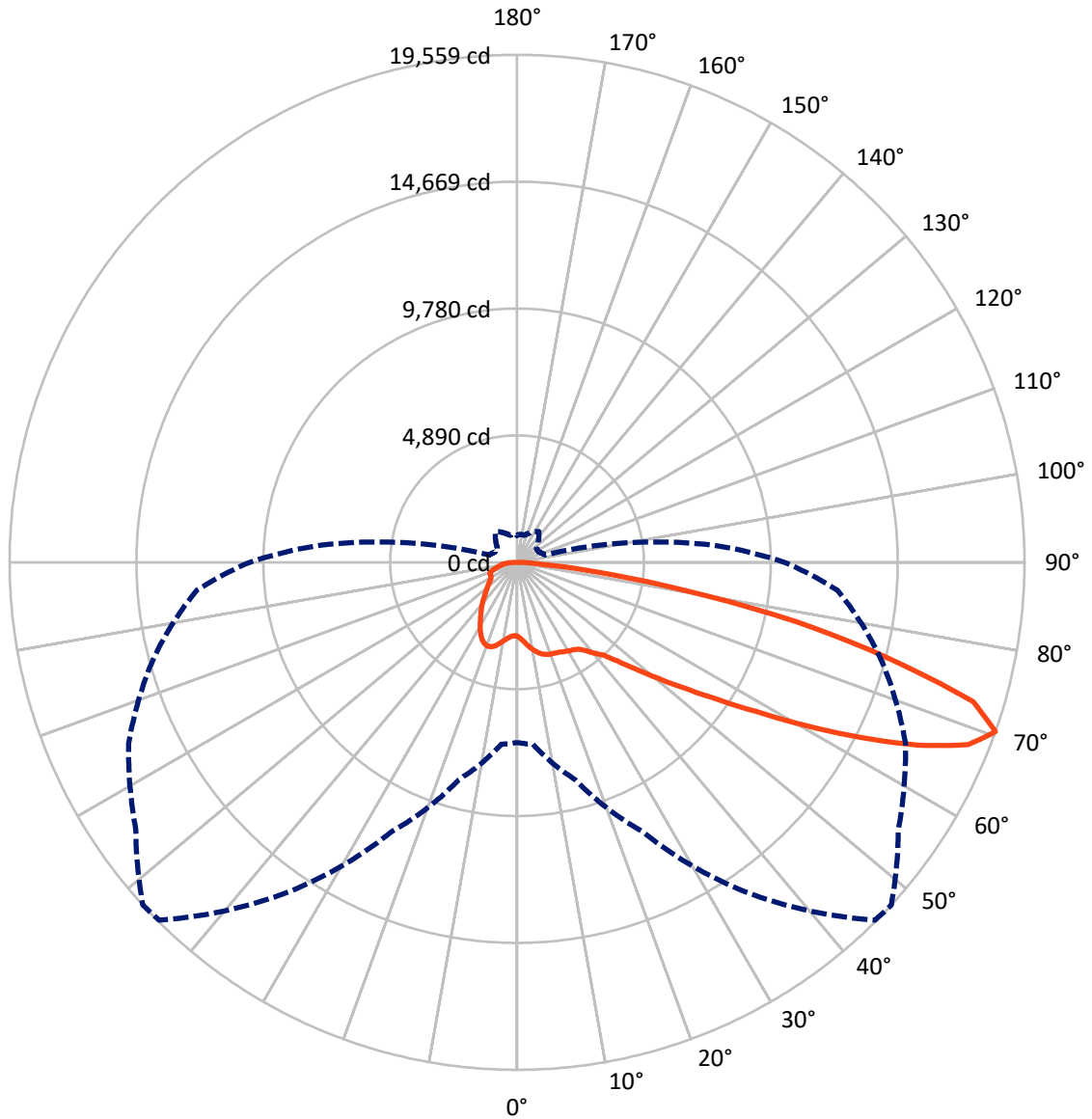
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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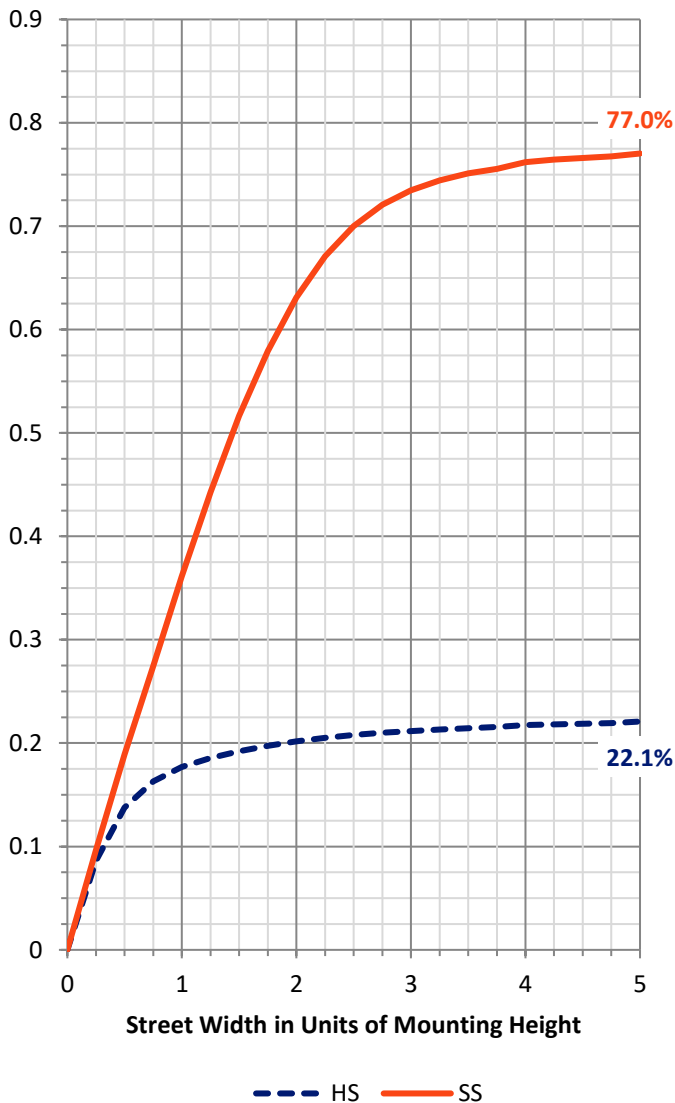
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6429.9	0.0	6429.9
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	21968.2	0.0	21968.2
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	28398.0	0.0	28398.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	293.9	1.0
10°-20°	982.4	3.5
20°-30°	1633.7	5.8
30°-40°	2315.5	8.2
40°-50°	3418.2	12.0
50°-60°	5920.5	20.8
60°-70°	8362.9	29.4
70°-80°	4807.5	16.9
80°-90°	663.3	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°	28398.0	100.0
0°-180°	28398.0	100.0

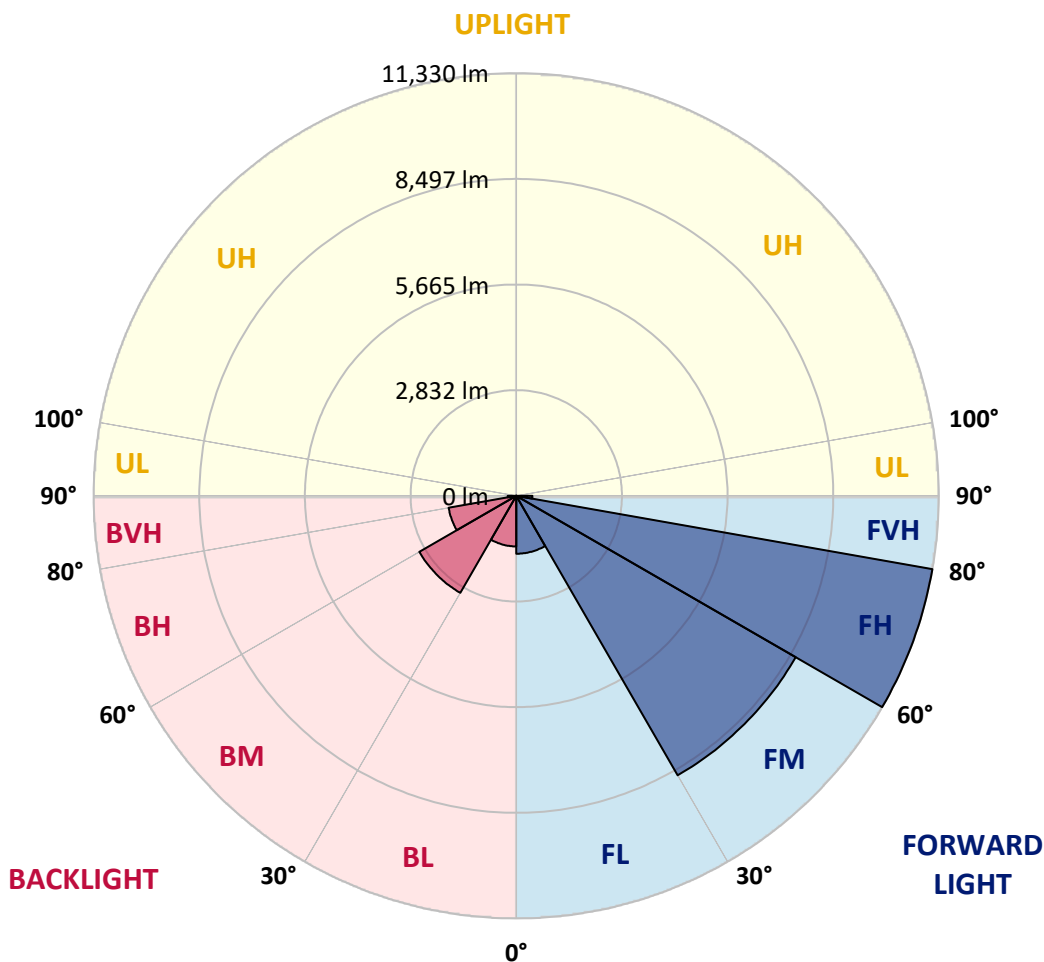


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1552.9	5.5			
FM (30°-60°)	8652.3	30.5			
FH (60°-80°)	11329.6	39.9			G4/12000
FVH (80°-90°)	433.3	1.5			G3/500
BL (0°-30°)	1357.1	4.8	B3/2500		
BM (30°-60°)	3002.0	10.6	B3/5000		
BH (60°-80°)	1840.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	230.0	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-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	2850.8	2850.8	2850.8	2850.8	2850.8	2850.8	2850.8	2850.8	2850.8	2850.8	2850.8
2.5°	3034.7	3024.1	3022.6	2999.8	2987.6	2964.8	2955.7	2934.4	2908.6	2882.7	2858.4
5°	3273.3	3273.3	3262.7	3230.7	3180.6	3128.9	3106.1	3065.1	2992.1	2932.9	2882.7
7.5°	3517.9	3521.0	3499.7	3452.6	3381.2	3297.6	3276.3	3215.6	3112.2	3025.6	2951.2
10°	3729.2	3729.2	3700.3	3636.5	3546.8	3455.7	3434.4	3365.9	3250.5	3142.6	3045.3
12.5°	3890.2	3890.2	3852.3	3768.7	3671.4	3589.4	3565.1	3499.7	3391.8	3271.7	3148.7
15°	3995.1	3987.5	3945.0	3850.8	3756.5	3685.1	3668.4	3613.7	3514.9	3393.4	3255.0
17.5°	3999.6	3996.6	3955.6	3876.6	3794.5	3745.9	3735.2	3698.8	3621.3	3505.8	3359.9
20°	3911.5	3917.6	3890.2	3834.0	3794.5	3773.2	3768.7	3756.5	3701.8	3593.9	3448.0
22.5°	3817.3	3828.0	3802.1	3771.7	3768.7	3790.0	3793.0	3796.0	3761.1	3656.2	3522.5
25°	3794.5	3802.1	3776.3	3748.9	3765.7	3821.8	3834.0	3846.1	3818.8	3730.7	3610.7
27.5°	3910.0	3903.9	3853.8	3794.5	3805.2	3881.1	3897.9	3911.5	3897.9	3821.8	3720.1
30°	4236.7	4216.9	4116.7	3943.4	3888.7	3941.9	3958.7	3996.6	3996.6	3940.4	3838.6
32.5°	4783.8	4745.8	4561.9	4221.6	4031.6	3999.6	4016.4	4078.7	4110.6	4066.5	3955.6
35°	5447.8	5408.4	5145.5	4688.1	4293.0	4115.2	4110.6	4180.5	4265.6	4166.8	4022.4
37.5°	6115.0	6074.0	5757.9	5244.2	4674.4	4358.3	4331.0	4355.3	4391.7	4210.9	4115.2
40°	6782.1	6733.5	6456.9	5865.7	5140.9	4680.4	4609.0	4499.6	4484.5	4355.3	4294.5
42.5°	7443.1	7399.0	7259.3	6563.2	5700.1	4995.0	4885.6	4697.2	4754.9	4677.4	4624.2
45°	8110.3	8113.3	7964.4	7345.9	6374.9	5575.5	5428.2	5133.3	5270.0	5241.2	5271.6
47.5°	8701.4	8693.8	8640.6	8105.7	7212.2	6323.1	6133.2	5791.3	6025.3	6131.7	6364.2
50°	9274.3	9269.8	9272.8	8967.3	8184.7	7212.2	7002.4	6643.8	7171.1	7540.4	7956.8
52.5°	10094.9	10120.8	9936.8	9856.3	9367.0	8262.2	8031.2	7660.4	8525.1	9107.1	9920.1
55°	10918.5	10897.3	10752.9	10836.5	10604.0	9505.2	9263.6	8968.8	10032.6	10669.3	11891.1
57.5°	11403.3	11410.9	11558.3	11967.1	12131.2	11055.3	10836.5	10608.5	11727.0	12178.3	13644.7
60°	11839.4	11874.4	12298.4	13070.3	13515.5	12959.4	12764.9	12543.0	13281.6	13460.9	15167.4
62.5°	11976.2	12084.1	12824.2	13979.0	14865.0	15108.1	14866.5	14377.2	14761.7	14691.8	16199.3
65°	11293.9	11441.3	12767.9	14319.5	16070.1	17147.5	16994.0	16085.3	16023.0	15602.0	16367.9
67.5°	9497.7	9645.1	11348.6	13605.2	16568.5	18913.2	18759.8	17331.3	16788.9	15687.1	15091.4
70°	6949.3	7041.9	8671.0	11454.9	15567.1	19506.0	19559.1	17939.2	16515.3	14530.7	12391.0
72.5°	4004.3	4209.4	5350.6	8058.5	12717.8	18007.6	18376.9	16674.8	14786.0	12122.1	8663.4
75°	1721.8	1726.3	2474.0	4444.9	8613.3	14474.5	14831.5	13822.5	11611.5	8382.2	4625.8
77.5°	819.0	834.3	1088.1	1984.7	4741.2	10000.7	10964.1	9765.1	7426.5	4027.0	1747.6
80°	531.8	542.5	665.6	984.7	2325.0	5798.9	6470.6	5633.3	3276.3	1439.1	753.7
82.5°	322.2	325.2	445.2	601.7	1279.5	2625.9	3095.5	2445.1	1398.1	861.6	443.7
85°	196.0	197.6	270.5	372.3	776.5	907.2	931.5	923.9	820.6	563.8	237.1
87.5°	94.2	97.2	139.8	176.3	305.5	281.1	265.9	308.5	387.5	303.9	101.8
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°	2850.8	2850.8	2850.8	2850.8	2850.8	2850.8	2850.8	2850.8	2850.8	2850.8	2850.8
2.5°	2847.8	2843.3	2832.6	2828.0	2825.0	2826.5	2825.0	2825.0	2826.5	2826.5	2826.5
5°	2861.4	2853.8	2837.1	2837.1	2846.3	2867.6	2887.3	2902.5	2919.2	2917.7	2917.7
7.5°	2920.7	2907.1	2887.3	2893.4	2916.2	2949.6	2984.5	3018.0	3051.4	3054.4	3052.9
10°	3007.3	2993.7	2972.4	2980.0	3016.5	3066.6	3110.7	3159.3	3195.8	3206.4	3203.4
12.5°	3106.1	3078.7	3060.6	3081.8	3139.5	3206.4	3249.0	3285.5	3311.3	3326.5	3320.4
15°	3206.4	3180.6	3159.3	3203.4	3273.3	3335.6	3356.9	3362.9	3367.5	3382.7	3379.6
17.5°	3303.7	3268.7	3261.1	3318.8	3385.7	3413.1	3400.9	3375.1	3355.3	3367.5	3365.9
20°	3390.3	3362.9	3359.9	3417.7	3443.5	3417.7	3365.9	3320.4	3285.5	3288.5	3287.0
22.5°	3472.3	3451.0	3454.2	3478.5	3437.4	3349.3	3264.2	3201.9	3163.8	3171.5	3176.0
25°	3563.6	3542.3	3549.9	3510.3	3375.1	3221.6	3098.5	3045.3	3030.1	3045.3	3055.9
27.5°	3682.1	3668.4	3663.8	3511.8	3264.2	3033.2	2893.4	2873.6	2887.3	2920.7	2937.4
30°	3809.7	3809.7	3785.4	3486.0	3112.2	2806.8	2685.1	2688.3	2735.4	2782.4	2799.2
32.5°	3932.8	3958.7	3882.6	3416.1	2916.2	2586.4	2493.7	2496.8	2537.8	2595.5	2610.7
35°	4034.6	4109.0	3966.2	3288.5	2685.1	2401.0	2331.1	2290.0	2291.6	2335.7	2347.8
37.5°	4174.4	4312.7	4014.8	3098.5	2439.0	2242.9	2164.0	2092.5	2045.4	2027.1	2027.1
40°	4417.5	4621.2	4027.0	2817.4	2206.5	2092.5	1980.1	1894.9	1803.8	1721.8	1706.6
42.5°	4829.4	5086.2	4002.7	2493.7	1996.8	1926.9	1817.5	1712.6	1586.5	1471.0	1461.9
45°	5558.8	5691.0	3937.4	2157.8	1809.9	1767.4	1661.0	1547.0	1413.2	1309.9	1302.3
47.5°	6727.4	6540.5	3850.8	1860.0	1639.7	1627.5	1545.4	1413.2	1279.5	1208.1	1200.5
50°	8434.0	7877.7	3838.6	1644.2	1503.0	1509.0	1442.1	1320.5	1203.6	1144.3	1135.2
52.5°	10488.4	9493.1	3919.1	1492.3	1382.9	1405.6	1372.3	1259.7	1156.5	1106.3	1097.2
55°	12482.2	10945.9	3967.8	1373.8	1270.4	1313.0	1317.5	1223.3	1129.0	1078.9	1072.9
57.5°	14100.6	12040.0	3752.0	1265.9	1173.1	1238.5	1271.9	1202.0	1115.4	1077.4	1071.3
60°	15226.6	12556.7	3138.0	1170.1	1101.7	1179.3	1255.2	1203.6	1148.8	1153.4	1156.5
62.5°	15585.3	12327.2	2353.9	1098.7	1053.1	1159.5	1282.5	1265.9	1209.6	1244.6	1250.7
65°	14991.2	11379.0	1706.6	1042.5	1010.5	1173.1	1364.6	1311.5	1188.3	1214.2	1214.2
67.5°	13001.9	9803.1	1328.2	990.8	961.9	1199.0	1446.7	1306.9	1138.2	1168.6	1141.2
70°	10313.7	7583.0	1106.3	933.1	910.3	1161.0	1454.3	1259.7	1078.9	1085.0	1033.3
72.5°	6844.4	4985.9	951.3	878.3	831.2	1044.0	1391.9	1199.0	1021.2	986.2	934.6
75°	3353.8	2486.1	829.7	810.0	727.9	908.7	1306.9	1141.2	958.9	904.2	875.3
77.5°	1299.3	1057.6	708.1	723.3	633.7	800.9	1194.4	1059.2	876.8	802.4	779.6
80°	630.7	600.2	580.5	603.3	521.3	682.3	1091.1	987.8	800.9	718.8	685.3
82.5°	392.1	370.8	445.2	469.5	401.2	623.0	1034.9	927.0	705.1	595.7	568.3
85°	199.1	212.8	297.9	320.7	287.2	495.4	852.5	696.0	509.1	422.4	425.5
87.5°	75.9	101.8	156.5	168.7	153.5	261.4	469.5	405.8	326.7	221.9	205.1
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)