

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: P533158

Luminaire Tested: **GALN-SA8C-740-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533158  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-740-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48402 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

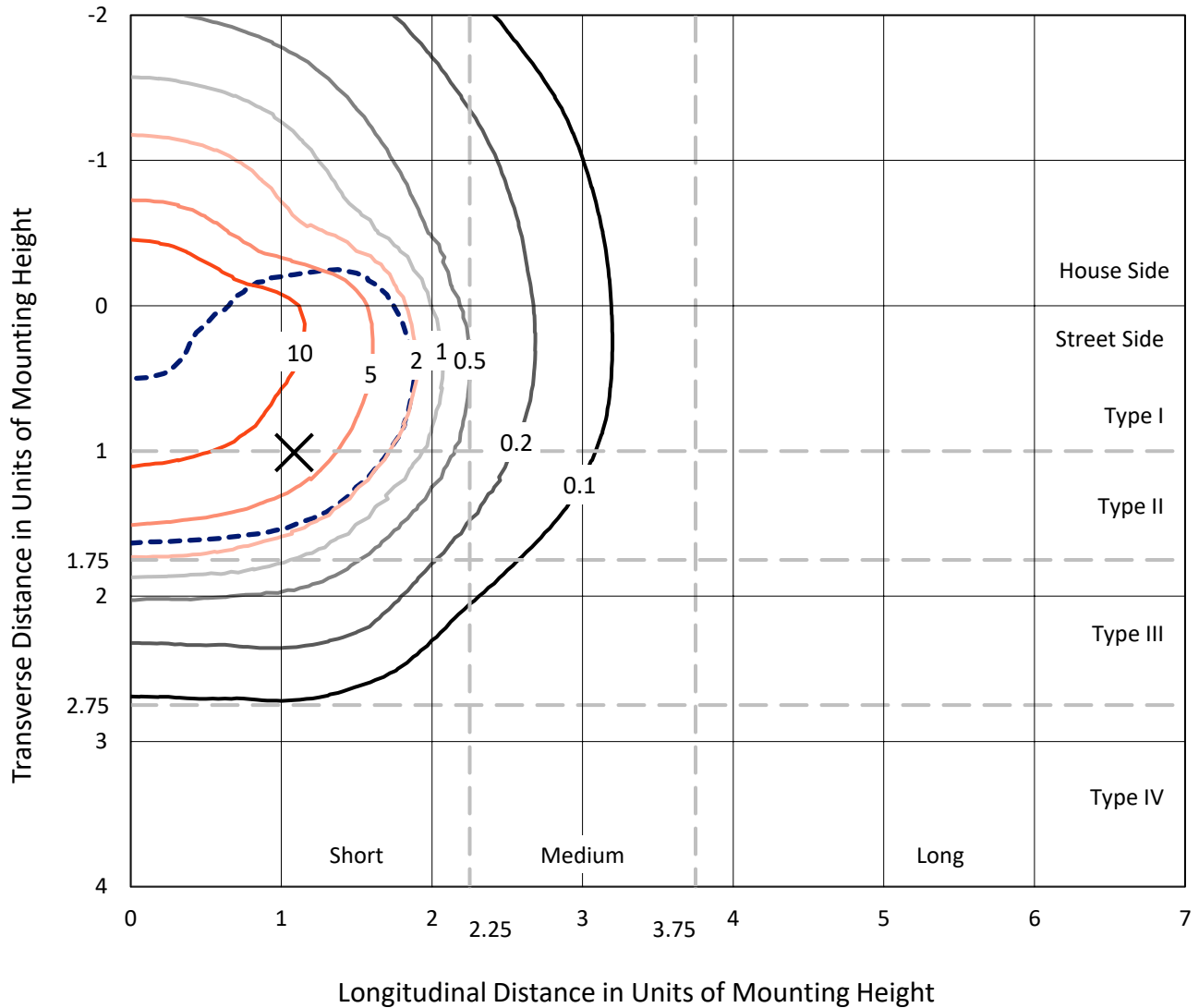
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

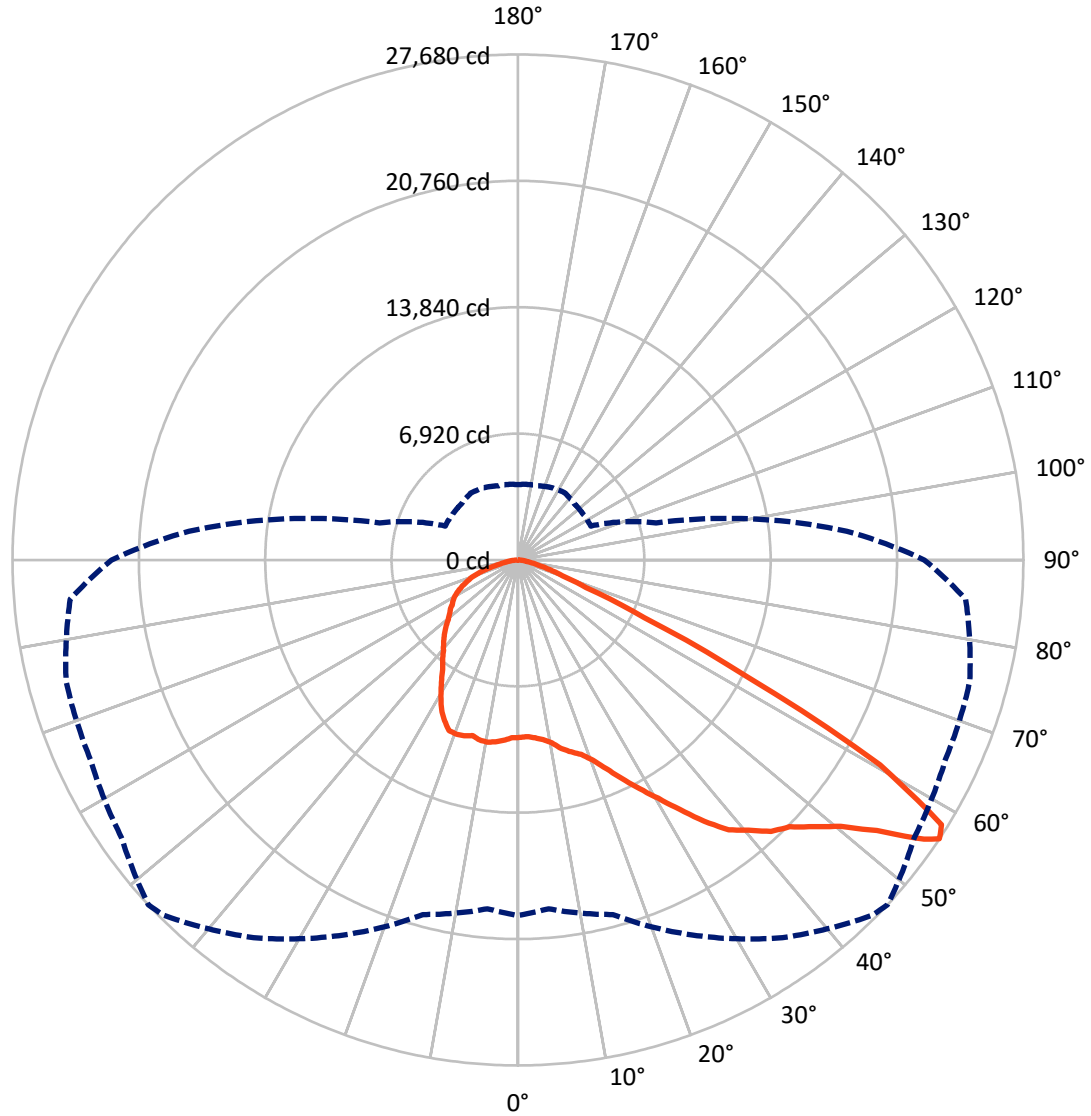
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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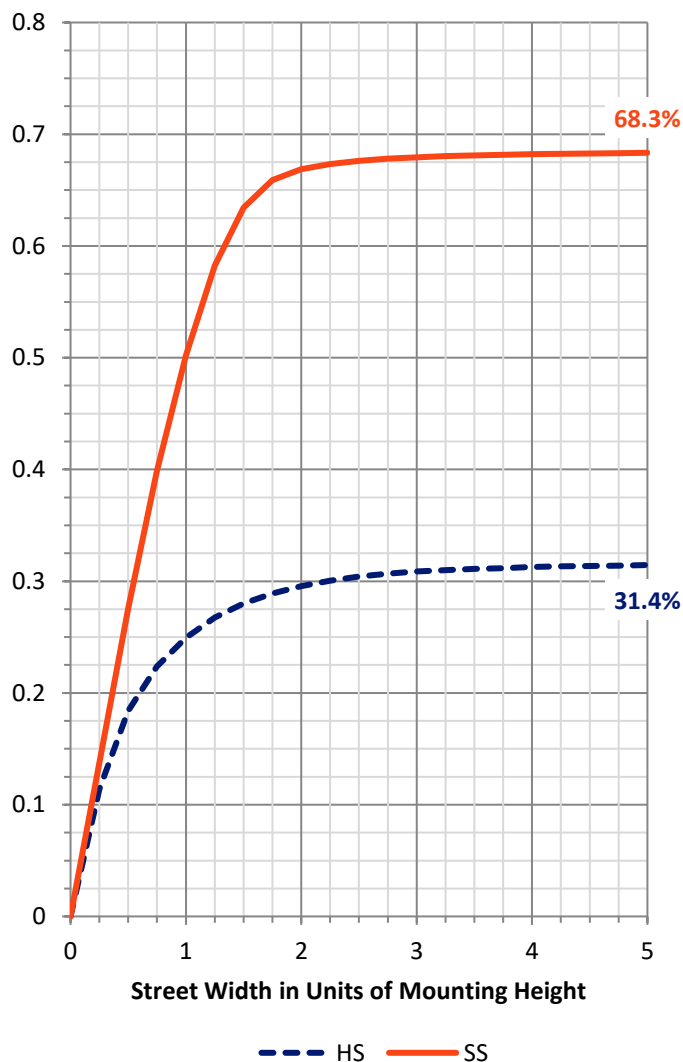
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15338.0	0.0	15338.0
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	33064.0	0.0	33064.0
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	48402.0	0.0	48402.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	947.3	2.0
10°-20°	2988.3	6.2
20°-30°	5282.7	10.9
30°-40°	7934.4	16.4
40°-50°	10889.2	22.5
50°-60°	12973.0	26.8
60°-70°	5551.7	11.5
70°-80°	1571.1	3.2
80°-90°	264.4	0.5
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°	48402.0	100.0
0°-180°	48402.0	100.0

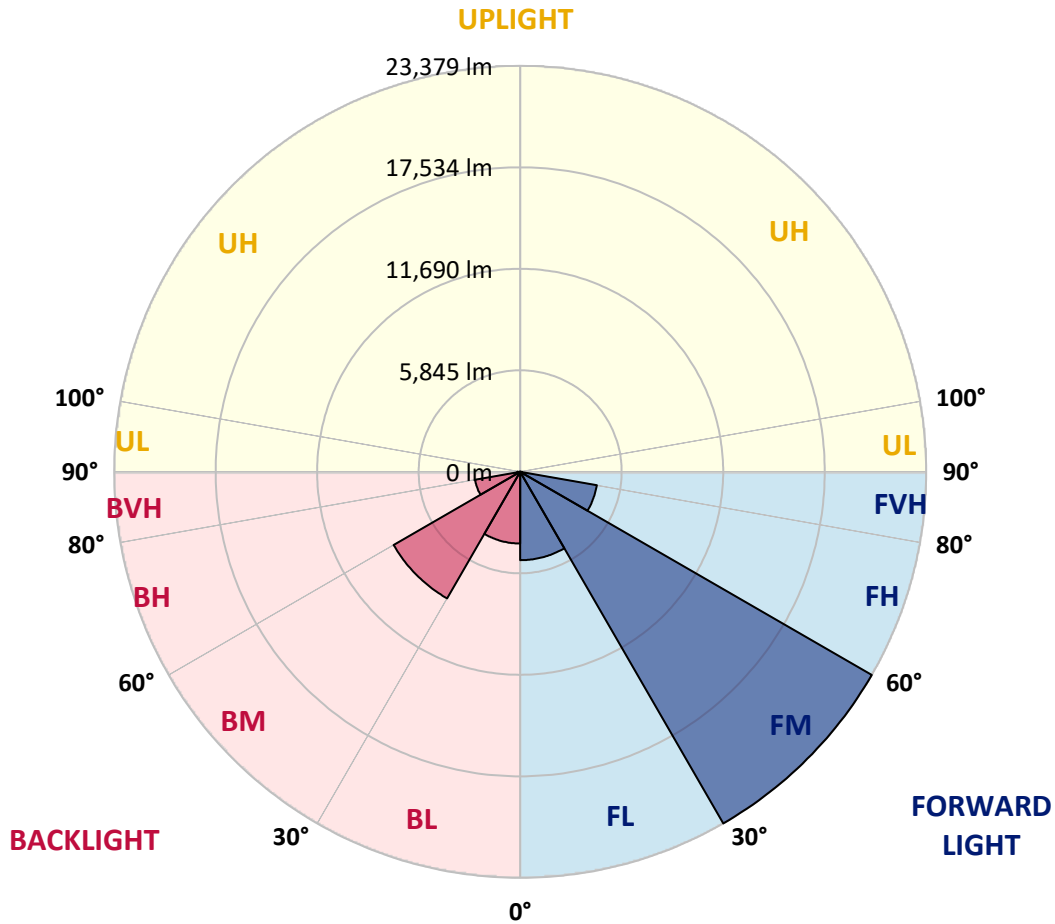


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5088.7	10.5			
FM (30°-60°)	23379.3	48.3			
FH (60°-80°)	4483.8	9.3			G2/5000
FVH (80°-90°)	112.2	0.2			G2/225
BL (0°-30°)	4129.6	8.5	B4/5000		
BM (30°-60°)	8417.2	17.4	B4/8500		
BH (60°-80°)	2639.0	5.5	B4/5000		G4/5000
BVH (80°-90°)	152.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	9722.5	9722.5	9722.5	9722.5	9722.5	9722.5	9722.5	9722.5	9722.5	9722.5	9722.5
2.5°	9685.5	9666.9	9654.6	9753.4	9716.3	9722.5	9685.5	9722.5	9747.2	9691.6	9771.9
5°	9666.9	9722.5	9673.1	9704.0	9784.2	9759.5	9784.2	9858.3	9839.8	9821.3	9796.6
7.5°	9839.8	9846.0	9883.0	9895.3	9920.0	9895.3	9932.4	10000.3	9981.8	9876.8	9889.2
10°	10086.7	10099.0	10105.2	10173.1	10216.3	10222.5	10179.3	10117.6	10111.4	10253.4	10154.6
12.5°	10370.7	10339.8	10413.9	10438.6	10487.9	10543.5	10599.1	10469.4	10549.7	10555.8	10438.6
15°	10784.2	10815.1	10728.7	10728.7	10747.2	10753.4	10907.7	10846.0	10833.6	10765.7	10815.1
17.5°	11401.6	11191.7	11185.5	11099.1	11086.7	11136.1	11191.7	11241.1	11407.7	11271.9	11006.5
20°	11852.2	11901.6	11722.5	11617.6	11636.1	11747.2	11691.7	11913.9	12031.2	11809.0	11549.7
22.5°	12648.5	12481.8	12525.0	12290.5	12309.0	12426.3	12420.1	12648.5	12716.4	12364.5	11988.0
25°	13185.6	13142.3	13179.4	12994.2	13018.9	13111.5	13259.6	13636.2	13525.1	13136.2	12265.8
27.5°	13969.5	13883.1	13852.2	13784.3	13759.6	14006.6	14179.4	14580.7	14500.4	13932.5	12759.6
30°	14772.0	14716.5	14747.3	14469.5	14568.3	15093.0	15142.4	15691.8	15654.8	14654.7	13309.0
32.5°	15327.6	15358.4	15414.0	15259.7	15698.0	16117.7	16284.4	16907.9	16938.7	15895.5	14370.8
35°	16222.7	16117.7	16148.6	16327.6	16531.3	17296.8	17568.4	17982.0	18241.2	17198.0	15389.3
37.5°	16784.4	16895.5	16765.9	17049.9	17580.7	18500.5	18747.4	19173.4	19445.0	18482.0	16778.2
40°	17661.0	17482.0	17574.6	17778.3	18321.5	19519.1	19451.2	19889.4	19975.9	19574.6	18074.6
42.5°	18605.5	18519.0	18389.4	18852.4	19309.2	20179.6	20315.4	20111.7	20550.0	20642.5	19926.5
45°	19735.1	19840.1	19858.6	19870.9	20272.2	21031.4	20846.3	20667.2	21173.4	21846.3	21074.7
47.5°	20784.5	20451.2	20691.9	21025.3	21593.2	21599.4	21815.4	21389.5	21926.5	22525.3	22111.7
50°	21136.4	20975.9	21296.9	21926.5	22803.1	22895.7	22920.4	22315.4	22593.2	23068.5	22469.8
52.5°	21000.6	20945.0	21766.0	22741.4	24025.4	24494.5	24618.0	23871.0	24025.4	23809.3	23259.9
55°	20352.4	20519.1	21346.3	23334.0	25303.2	26753.8	26988.4	26043.9	25062.4	25229.1	24624.1
56°	19463.5	19173.4	20099.3	22661.1	25247.6	27488.4	27679.8	26500.7	25834.0	25618.0	24611.8
57.5°	16512.8	16136.2	17352.3	20389.5	23846.3	27210.6	27352.6	26692.1	25704.4	25266.1	22815.4
60°	9666.9	9852.1	11395.4	14062.1	18395.6	22309.3	22784.6	23266.1	22605.6	20642.5	16982.0
62.5°	4666.8	4549.5	5654.5	8062.0	11210.2	14241.1	14099.2	15451.0	16191.8	14667.1	10722.5
65°	2444.5	2432.2	3086.5	4401.4	6160.7	7481.7	7611.3	8339.7	9358.3	7555.8	5444.6
67.5°	1796.3	1845.7	2172.9	3092.7	3963.1	4043.3	4024.8	4389.0	4487.8	3796.4	3345.8
70°	1407.4	1432.1	1672.9	2351.9	2950.7	2642.0	2586.5	2629.7	2919.8	3043.3	2895.1
72.5°	1018.5	1043.2	1246.9	1586.5	1845.7	1802.5	1839.6	2080.3	2438.3	2568.0	2413.6
75°	679.0	697.6	808.7	969.2	1092.6	1179.0	1246.9	1524.7	1858.1	1932.2	1858.1
77.5°	469.1	487.7	561.7	685.2	697.6	753.1	777.8	907.4	1111.1	1203.7	1154.4
80°	265.4	265.4	302.5	351.9	432.1	506.2	518.5	623.5	716.1	777.8	790.1
82.5°	123.5	129.6	160.5	216.1	284.0	351.9	364.2	432.1	500.0	561.7	580.3
85°	61.7	67.9	92.6	129.6	172.8	209.9	203.7	209.9	222.2	209.9	216.1
87.5°	18.5	18.5	24.7	30.9	24.7	30.9	30.9	37.0	43.2	49.4	55.6
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°	9722.5	9722.5	9722.5	9722.5	9722.5	9722.5	9722.5	9722.5	9722.5	9722.5	9722.5
2.5°	9778.0	9796.6	9673.1	9790.4	9747.2	9741.0	9827.4	9815.1	9846.0	9833.6	9759.5
5°	9784.2	9741.0	9870.6	9753.4	9808.9	9926.2	9846.0	10031.1	9938.5	10000.3	9864.5
7.5°	9975.6	9987.9	9963.2	10012.6	9987.9	10043.5	10000.3	10043.5	9969.4	9975.6	10099.0
10°	10142.3	10105.2	10148.4	10086.7	10129.9	10111.4	10012.6	9981.8	10006.4	9975.6	10055.8
12.5°	10450.9	10383.0	10352.1	10278.1	10228.7	10043.5	9889.2	9802.7	9920.0	9938.5	9901.5
15°	10765.7	10771.9	10629.9	10463.3	10154.6	9876.8	9913.9	9944.7	9944.7	9994.1	9901.5
17.5°	10963.3	10963.3	10833.6	10500.3	10185.5	10025.0	9987.9	9889.2	9802.7	9790.4	9784.2
20°	11309.0	11204.0	10907.7	10494.1	10173.1	10099.0	9821.3	9586.7	9407.7	9345.9	9339.8
22.5°	11704.0	11438.6	11025.0	10506.5	10154.6	10049.7	9531.1	9179.3	8858.3	8722.5	8741.0
25°	12068.2	11642.3	11092.9	10450.9	10086.7	9580.5	9000.2	8512.6	8179.2	8068.1	8012.6
27.5°	12321.3	11858.4	11092.9	10500.3	9833.6	9055.8	8463.2	7839.7	7549.6	7475.5	7487.9
30°	12660.8	12130.0	11284.3	10395.3	9327.4	8376.8	7666.9	7259.5	7086.6	7024.9	7068.1
32.5°	13457.2	12839.9	11549.7	10142.3	8728.6	7697.7	7123.7	6895.3	6642.2	6518.7	6475.5
35°	14321.4	13512.7	11809.0	9716.3	8055.8	7080.4	6722.4	6512.5	6210.0	6074.2	6098.9
37.5°	15543.6	14376.9	11827.5	9012.6	7327.4	6734.8	6407.6	6080.4	5833.5	5623.6	5561.9
40°	17191.8	15556.0	11784.3	8271.8	6740.9	6327.3	6086.6	5679.2	5401.4	5253.2	5284.1
42.5°	18642.5	16938.7	11605.3	7432.3	6210.0	6049.6	5777.9	5376.7	5105.1	4950.8	4938.4
45°	19864.7	17957.3	11265.7	6716.2	5765.6	5740.9	5426.1	5117.4	4901.4	4759.4	4821.1
47.5°	20994.4	18778.3	10753.4	6000.2	5358.2	5407.6	5105.1	4913.7	4777.9	4648.3	4642.1
50°	21401.8	18766.0	10302.8	5407.6	5031.0	5006.3	4994.0	4790.3	4648.3	4537.2	4586.5
52.5°	22080.9	18975.8	9815.1	5000.1	4734.7	4740.9	4784.1	4635.9	4475.4	4407.5	4469.3
55°	23056.2	19006.7	8741.0	4524.8	4487.8	4531.0	4531.0	4432.2	4296.4	4240.9	4210.0
56°	22259.9	18086.9	7839.7	4401.4	4364.3	4364.3	4481.6	4370.5	4203.8	4160.6	4123.6
57.5°	20531.4	15846.1	6561.9	4253.2	4197.6	4284.1	4345.8	4228.5	4074.2	4012.5	4049.5
60°	14160.9	10722.5	4932.2	3932.2	3932.2	4074.2	4123.6	3950.7	3882.8	3876.7	3827.3
62.5°	8265.7	6247.1	3858.1	3642.1	3654.4	3771.7	3808.7	3710.0	3623.6	3728.5	3777.9
65°	4382.8	3728.5	3308.7	3333.4	3339.6	3432.2	3592.7	3586.5	3580.3	3611.2	3617.4
67.5°	3172.9	3098.9	3006.3	2981.6	2993.9	3061.8	3222.3	3345.8	3339.6	3265.5	3210.0
70°	2827.2	2722.3	2666.7	2672.9	2623.5	2703.8	2833.4	2913.7	2771.7	2685.3	2648.2
72.5°	2351.9	2321.1	2284.0	2290.2	2191.4	2172.9	2024.7	2024.7	1987.7	1963.0	2006.2
75°	1796.3	1784.0	1802.5	1771.7	1666.7	1555.6	1469.2	1388.9	1265.5	1216.1	1191.4
77.5°	1135.8	1172.9	1216.1	1148.2	1105.0	1024.7	938.3	858.0	759.3	703.7	703.7
80°	771.6	802.5	833.4	821.0	771.6	697.6	629.6	543.2	475.3	432.1	425.9
82.5°	586.4	611.1	654.3	605.0	555.6	493.8	438.3	376.6	314.8	265.4	265.4
85°	209.9	240.7	265.4	290.1	308.7	314.8	271.6	222.2	179.0	142.0	135.8
87.5°	55.6	61.7	67.9	61.7	61.7	61.7	67.9	61.7	55.6	43.2	43.2
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)