

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: P533157

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533157  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
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-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33902 lumens  
Efficiency: N/A  
Efficacy: 79.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G2

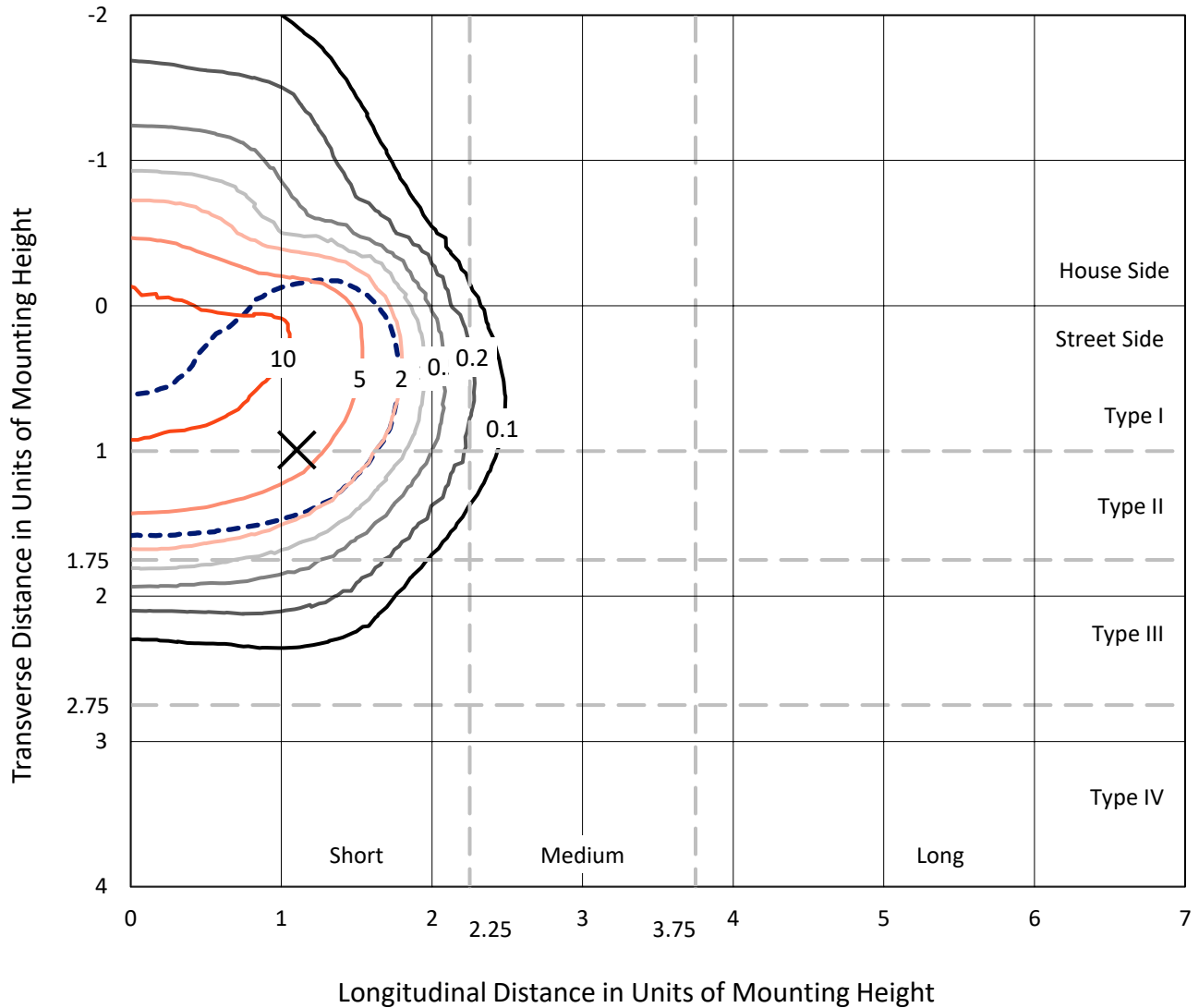
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

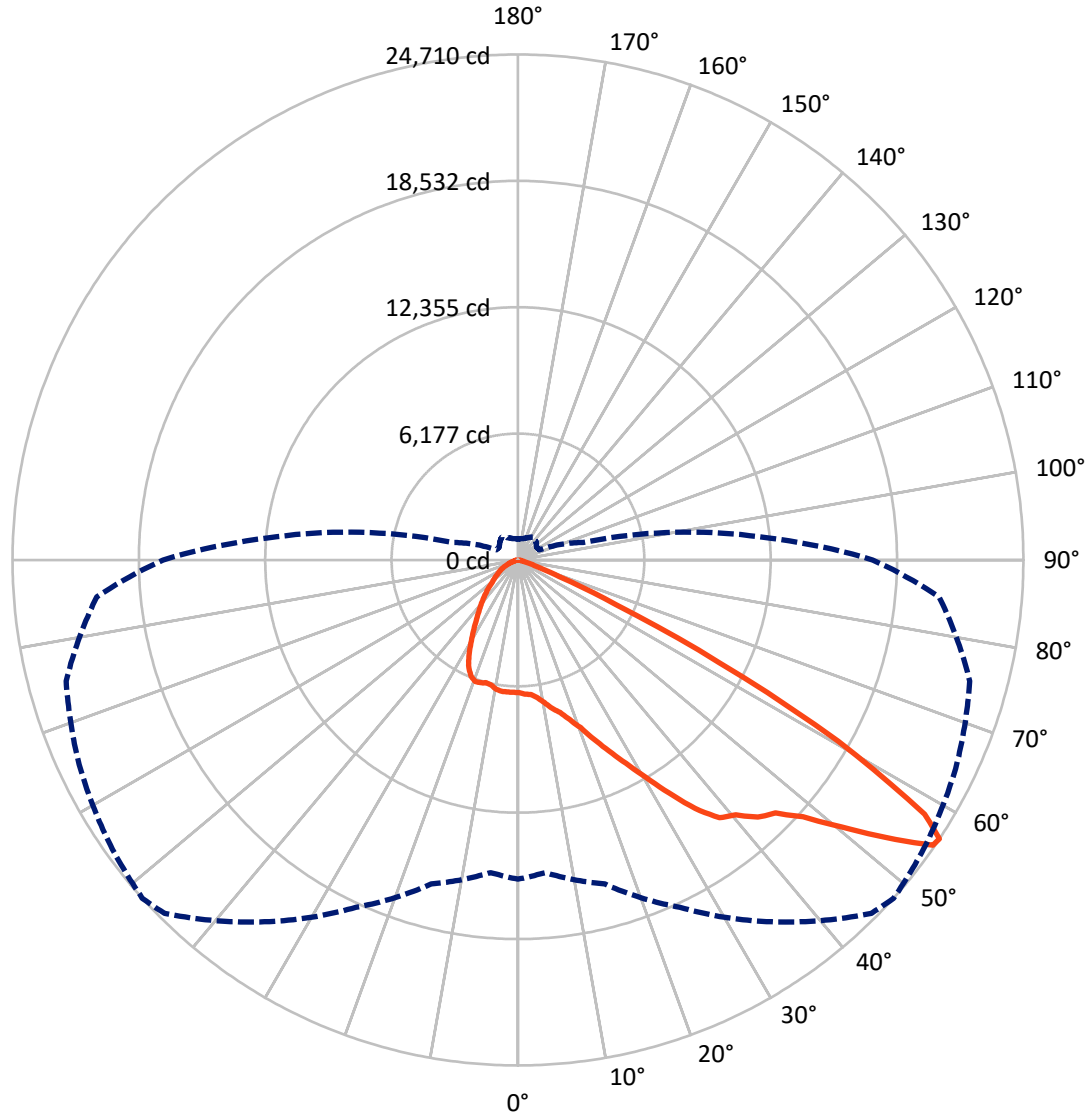
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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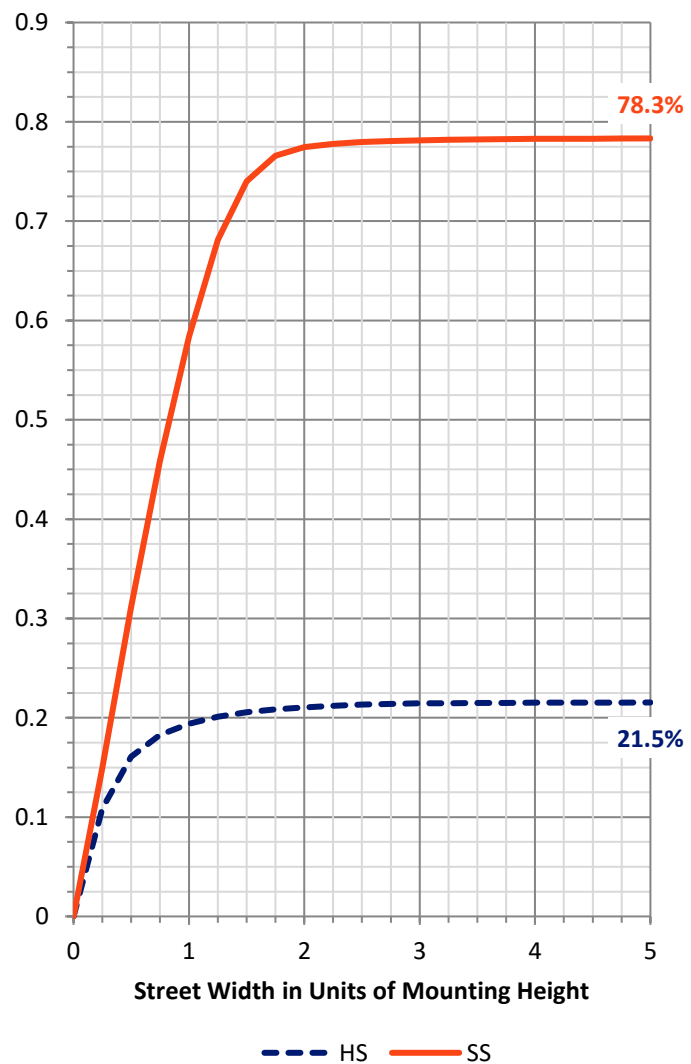
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7373.1	0.0	7373.1
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	26529.0	0.0	26529.0
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	33902.0	0.0	33902.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	630.8	1.9
10°-20°	2015.8	5.9
20°-30°	3656.3	10.8
30°-40°	5743.3	16.9
40°-50°	8378.4	24.7
50°-60°	10094.4	29.8
60°-70°	2955.5	8.7
70°-80°	374.9	1.1
80°-90°	52.6	0.2
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°	33902.0	100.0
0°-180°	33902.0	100.0

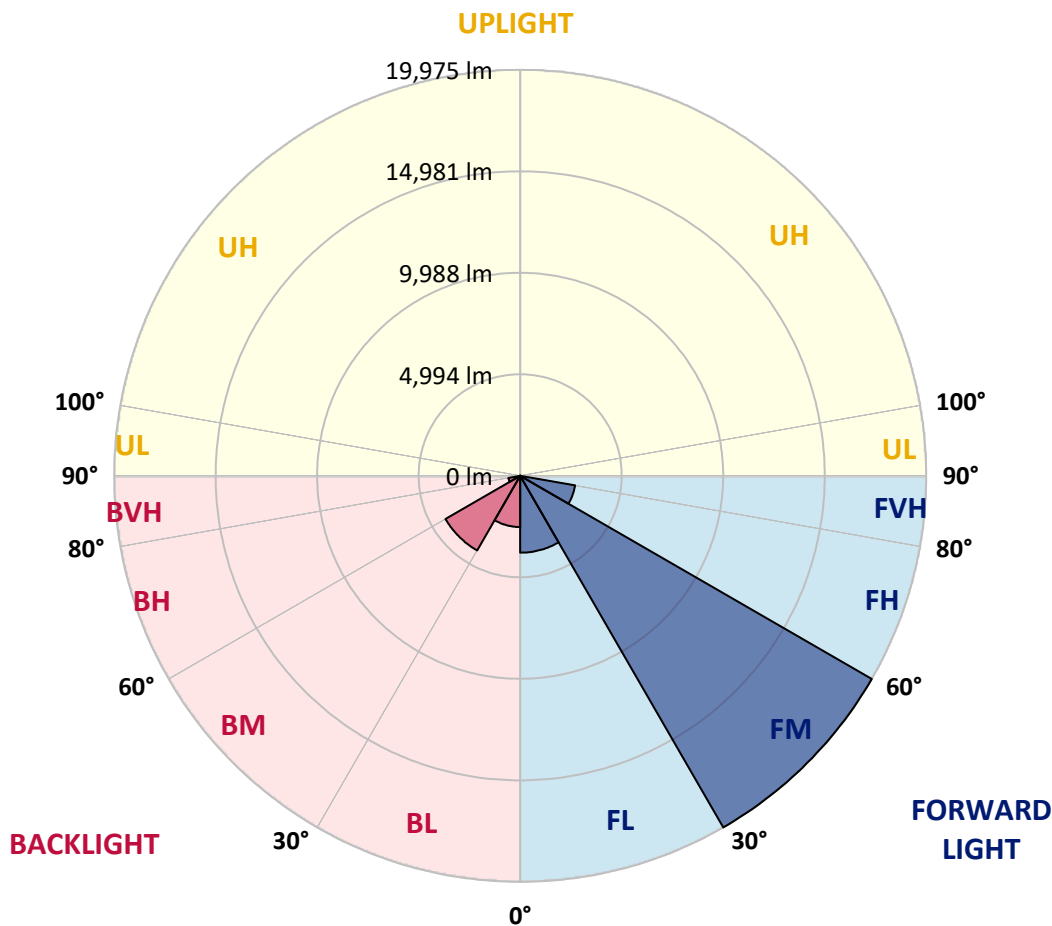


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3782.8	11.2			
FM (30°-60°)	19975.1	58.9			
FH (60°-80°)	2744.6	8.1			G2/5000
FVH (80°-90°)	26.4	0.1			G1/100
BL (0°-30°)	2520.1	7.4	B4/5000		
BM (30°-60°)	4240.9	12.5	B3/5000		
BH (60°-80°)	585.9	1.7	B2/1000		G2/1000
BVH (80°-90°)	26.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	6475.3	6475.3	6475.3	6475.3	6475.3	6475.3	6475.3	6475.3	6475.3	6475.3	6475.3
2.5°	6592.6	6561.7	6561.7	6512.3	6567.9	6543.2	6561.7	6500.0	6561.7	6469.1	6543.2
5°	6623.4	6629.6	6604.9	6635.8	6635.8	6672.8	6611.1	6666.7	6697.5	6629.6	6598.8
7.5°	6783.9	6796.3	6790.1	6765.4	6814.8	6808.6	6802.5	6759.2	6771.6	6746.9	6709.9
10°	7098.8	7092.6	7123.4	7061.7	7024.7	7067.9	7080.2	7012.3	6963.0	6944.4	6827.1
12.5°	7555.5	7481.5	7438.3	7376.5	7395.0	7333.3	7444.4	7327.1	7302.5	7191.3	7074.1
15°	7925.9	7913.6	7919.7	7821.0	7709.9	7734.6	7734.6	7672.8	7635.8	7500.0	7333.3
17.5°	8685.2	8425.9	8481.5	8358.0	8265.4	8259.2	8203.7	8216.0	8117.3	7833.3	7580.2
20°	9277.8	9166.6	9080.2	8870.4	8728.4	8771.6	8746.9	8685.2	8654.3	8283.9	7925.9
22.5°	9808.6	9845.7	9703.7	9648.1	9450.6	9469.1	9518.5	9462.9	9228.4	8845.7	8314.8
25°	10555.5	10512.3	10321.0	10253.1	10067.9	10135.8	10327.1	10283.9	10135.8	9444.4	8617.3
27.5°	11438.3	11290.1	11327.1	11018.5	10839.5	11030.8	11259.2	11475.3	11055.5	10148.1	8975.3
30°	12061.7	11907.4	11895.0	11882.7	11839.5	12061.7	12327.1	12524.7	12185.2	10851.8	9567.9
32.5°	12370.3	12407.4	12512.3	12475.3	12851.8	13308.6	13586.4	13870.3	13444.4	12000.0	10351.8
35°	13191.3	12956.8	13191.3	13216.0	13604.9	14574.0	14925.9	15604.9	15500.0	13623.4	11308.6
37.5°	13672.8	13654.3	13685.2	13919.7	14296.3	15493.8	15993.8	16518.5	16321.0	14598.7	12500.0
40°	14469.1	14518.5	14512.3	14691.3	15104.9	16185.2	16388.9	16814.8	16833.3	15950.6	14253.1
42.5°	15746.9	15549.4	15419.7	15604.9	16185.2	16783.9	17191.3	17104.9	17716.0	17592.6	16506.1
45°	16895.0	17012.3	16821.0	17129.6	17339.5	17660.5	17648.1	17833.3	18611.1	19197.5	18203.7
47.5°	17969.1	18043.2	18135.8	18345.6	18802.4	18851.8	18746.9	18666.6	19740.7	20345.6	19518.5
50°	18611.1	18679.0	19111.1	19487.6	20339.5	20450.6	20512.3	20308.6	21037.0	21104.9	20759.2
52.5°	18438.2	18512.3	19117.2	20358.0	21716.0	22734.5	22549.3	22203.7	22160.5	22425.9	21907.4
55°	16907.4	16839.5	17672.8	19604.9	22148.1	24592.5	24617.2	24253.0	23555.5	23376.5	21734.5
56°	15604.9	15339.5	16401.2	18734.5	21592.6	24432.1	24709.8	24320.9	23666.6	22864.2	20666.6
57.5°	12783.9	13037.0	14092.6	16024.7	19672.8	23277.7	23438.2	23345.6	22851.8	21506.1	18185.2
60°	7049.4	7493.8	8425.9	10790.1	14006.1	17864.2	17993.8	18746.9	18839.5	16469.1	12512.3
62.5°	2993.8	2944.4	3913.6	5654.3	7975.3	10783.9	11024.7	11796.3	11938.2	9493.8	6277.8
65°	1216.0	1283.9	1771.6	2845.7	4216.0	4913.6	5253.1	5506.2	5975.3	3919.7	2314.8
67.5°	802.5	796.3	1043.2	1623.5	2271.6	2191.4	2191.4	2314.8	2142.0	1598.8	1000.0
70°	574.1	592.6	746.9	1123.5	1413.6	1049.4	1006.2	963.0	1092.6	1055.6	808.6
72.5°	376.5	401.2	500.0	672.8	734.6	574.1	574.1	691.4	901.2	851.9	660.5
75°	246.9	253.1	308.6	388.9	364.2	296.3	327.2	463.0	654.3	629.6	469.1
77.5°	166.7	172.8	209.9	253.1	203.7	166.7	179.0	234.6	321.0	321.0	246.9
80°	61.7	67.9	86.4	80.2	92.6	117.3	129.6	160.5	191.4	191.4	166.7
82.5°	0.0	6.2	18.5	43.2	67.9	92.6	104.9	123.5	142.0	160.5	154.3
85°	0.0	6.2	18.5	30.9	49.4	55.6	61.7	43.2	37.0	37.0	30.9
87.5°	0.0	0.0	6.2	6.2	6.2	6.2	6.2	6.2	12.3	6.2	6.2
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°	6475.3	6475.3	6475.3	6475.3	6475.3	6475.3	6475.3	6475.3	6475.3	6475.3	6475.3
2.5°	6475.3	6469.1	6469.1	6450.6	6487.6	6469.1	6481.5	6475.3	6395.0	6456.8	6413.6
5°	6543.2	6586.4	6518.5	6506.2	6456.8	6475.3	6475.3	6413.6	6469.1	6463.0	6450.6
7.5°	6716.0	6642.0	6567.9	6493.8	6481.5	6463.0	6395.0	6370.4	6413.6	6364.2	6438.3
10°	6790.1	6802.5	6691.3	6592.6	6500.0	6370.4	6277.8	6222.2	6154.3	6228.4	6271.6
12.5°	7129.6	7006.2	6814.8	6660.5	6345.7	6216.0	6123.4	6098.8	6216.0	6240.7	6197.5
15°	7246.9	7228.4	6981.5	6635.8	6308.6	6154.3	6172.8	6123.4	6135.8	6074.1	6086.4
17.5°	7487.6	7277.8	6987.6	6555.5	6302.5	6265.4	6154.3	5956.8	5845.7	5796.3	5839.5
20°	7753.1	7549.4	7129.6	6586.4	6358.0	6259.2	5895.1	5654.3	5425.9	5302.5	5308.6
22.5°	7987.6	7734.6	7067.9	6598.8	6407.4	6000.0	5561.7	5086.4	4802.5	4611.1	4617.3
25°	8271.6	7913.6	7092.6	6623.4	6277.8	5586.4	4956.8	4493.8	4154.3	4024.7	4067.9
27.5°	8432.1	8024.7	7228.4	6679.0	5938.3	5000.0	4321.0	3888.9	3691.4	3629.6	3623.5
30°	8913.6	8271.6	7395.0	6567.9	5370.4	4370.4	3740.7	3475.3	3283.9	3228.4	3240.7
32.5°	9629.6	8722.2	7611.1	6277.8	4790.1	3808.6	3364.2	3166.7	2987.6	2882.7	2870.4
35°	10228.4	9493.8	7839.5	5827.1	4117.3	3376.5	3098.8	2851.8	2580.2	2463.0	2432.1
37.5°	11370.3	10364.2	7790.1	5148.1	3475.3	3055.5	2814.8	2512.3	2277.8	2117.3	2098.8
40°	12888.9	11382.7	7549.4	4321.0	3000.0	2771.6	2512.3	2222.2	1932.1	1796.3	1783.9
42.5°	14734.5	12629.6	7111.1	3481.5	2524.7	2487.6	2253.1	1919.7	1660.5	1561.7	1567.9
45°	16234.5	13697.5	6666.7	2796.3	2172.8	2209.9	2006.2	1691.4	1512.3	1432.1	1432.1
47.5°	17567.9	14419.7	6185.2	2308.6	1845.7	1932.1	1753.1	1567.9	1413.6	1351.8	1339.5
50°	18851.8	15154.3	5703.7	1870.4	1574.1	1660.5	1642.0	1493.8	1370.4	1296.3	1302.5
52.5°	19654.3	15271.6	5092.6	1530.9	1376.5	1475.3	1537.0	1401.2	1265.4	1222.2	1209.9
55°	18672.8	13759.2	3950.6	1259.3	1166.7	1296.3	1413.6	1259.3	1154.3	1080.2	1074.1
56°	17351.8	12302.4	3302.5	1160.5	1104.9	1246.9	1370.4	1203.7	1086.4	1043.2	1012.3
57.5°	14691.3	10067.9	2438.3	1030.9	1024.7	1160.5	1302.5	1148.1	1012.3	975.3	975.3
60°	9160.5	5666.7	1475.3	864.2	888.9	1030.9	1172.8	1024.7	901.2	901.2	919.8
62.5°	4172.8	2358.0	895.1	734.6	765.4	888.9	1043.2	925.9	858.0	925.9	938.3
65°	1419.8	1018.5	648.1	586.4	604.9	734.6	895.1	938.3	932.1	975.3	1000.0
67.5°	796.3	654.3	543.2	487.7	475.3	543.2	734.6	938.3	901.2	882.7	895.1
70°	672.8	555.6	481.5	432.1	413.6	438.3	567.9	709.9	635.8	617.3	604.9
72.5°	543.2	463.0	419.8	388.9	333.3	284.0	259.3	271.6	302.5	321.0	351.9
75°	382.7	351.9	351.9	314.8	240.7	179.0	142.0	117.3	80.2	55.6	61.7
77.5°	216.0	216.0	222.2	191.4	154.3	117.3	86.4	61.7	30.9	12.3	6.2
80°	148.1	160.5	172.8	154.3	129.6	104.9	74.1	43.2	18.5	0.0	0.0
82.5°	148.1	166.7	179.0	154.3	129.6	98.8	74.1	43.2	18.5	6.2	0.0
85°	30.9	37.0	43.2	49.4	74.1	74.1	55.6	37.0	18.5	6.2	0.0
87.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	0.0	0.0
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)