

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: P533179

Luminaire Tested: **GALN-SA8C-750-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533179  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-750-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33488 lumens  
Efficiency: N/A  
Efficacy: 78.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

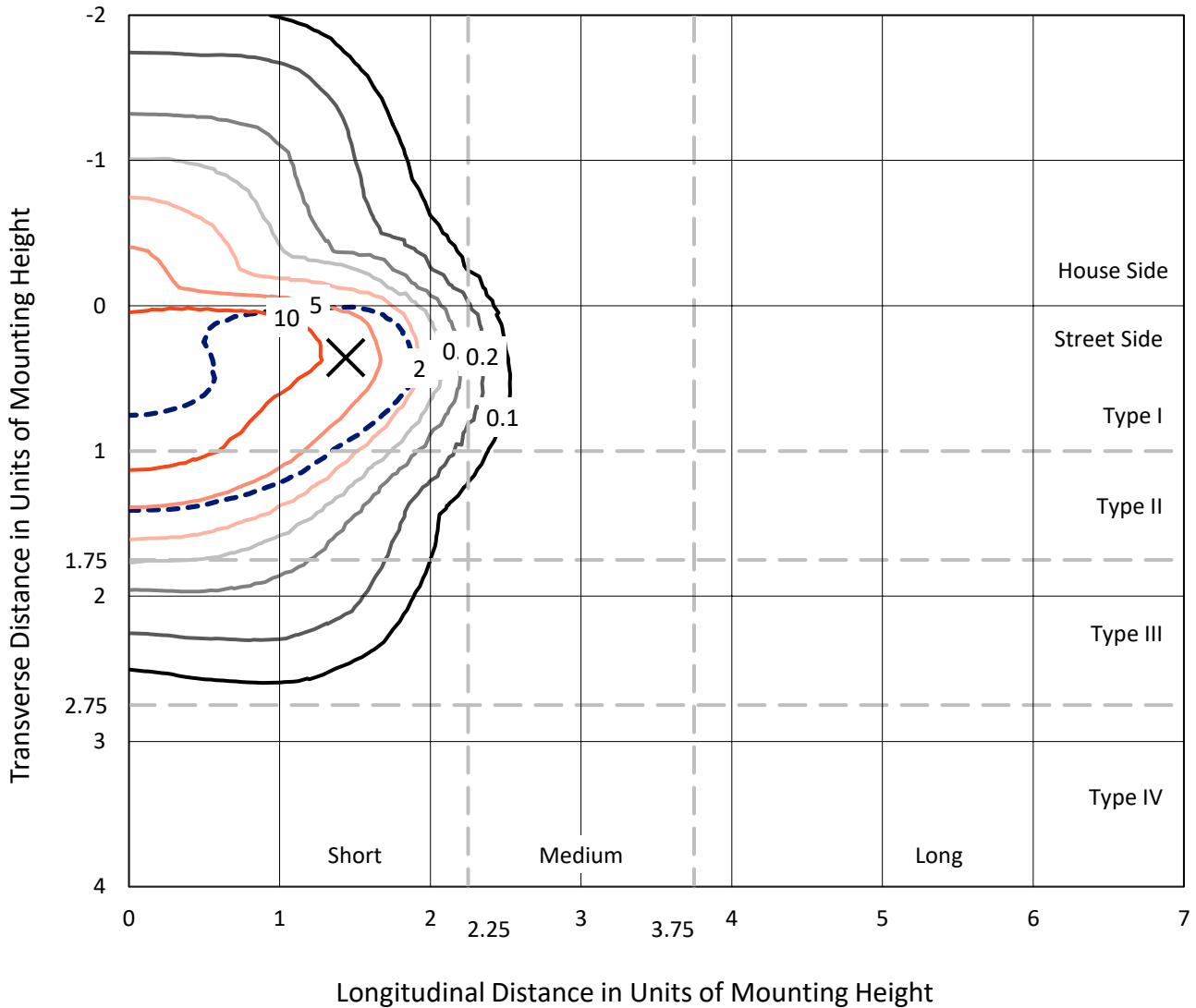
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

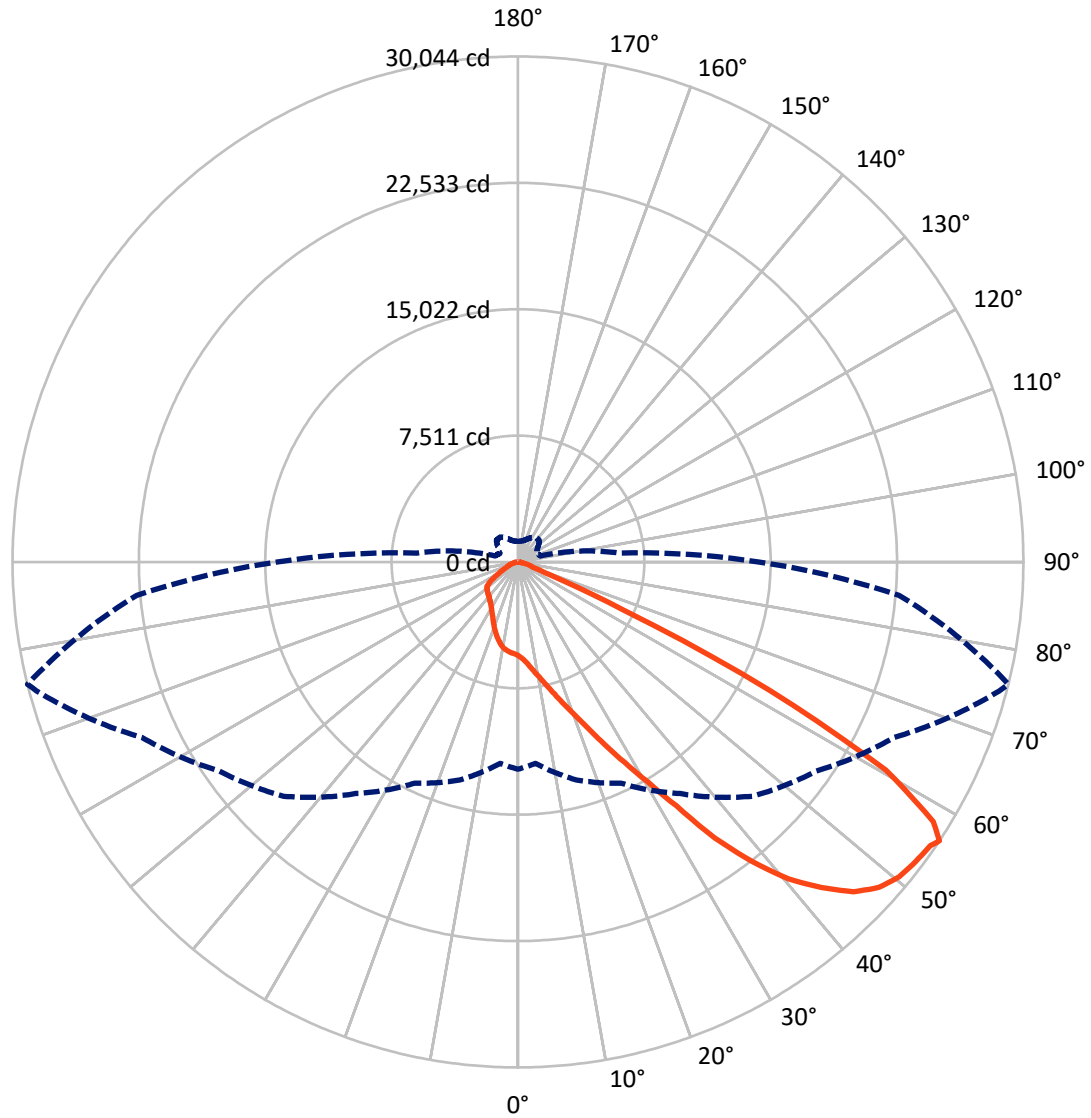
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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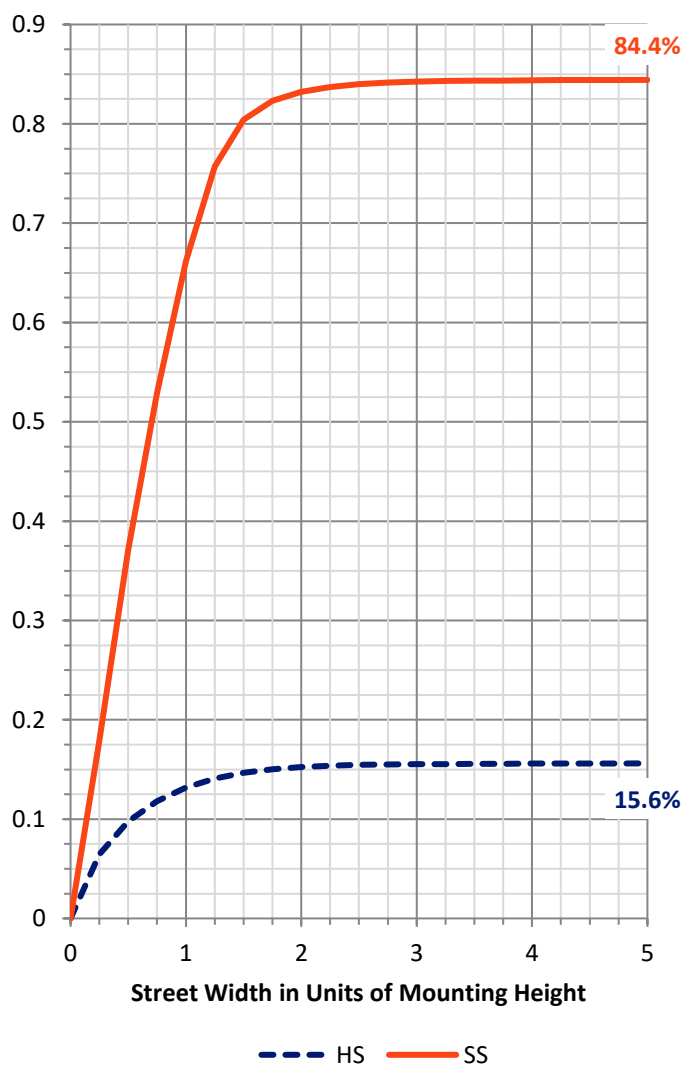
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5260.8	0.0	5260.8
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	28227.2	0.0	28227.2
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	33488.0	0.0	33488.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	561.5	1.7
10°-20°	1803.9	5.4
20°-30°	3271.0	9.8
30°-40°	5641.1	16.8
40°-50°	9164.1	27.4
50°-60°	9659.2	28.8
60°-70°	2951.3	8.8
70°-80°	378.3	1.1
80°-90°	57.5	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°	33488.0	100.0
0°-180°	33488.0	100.0

**Coefficient of Utilization**



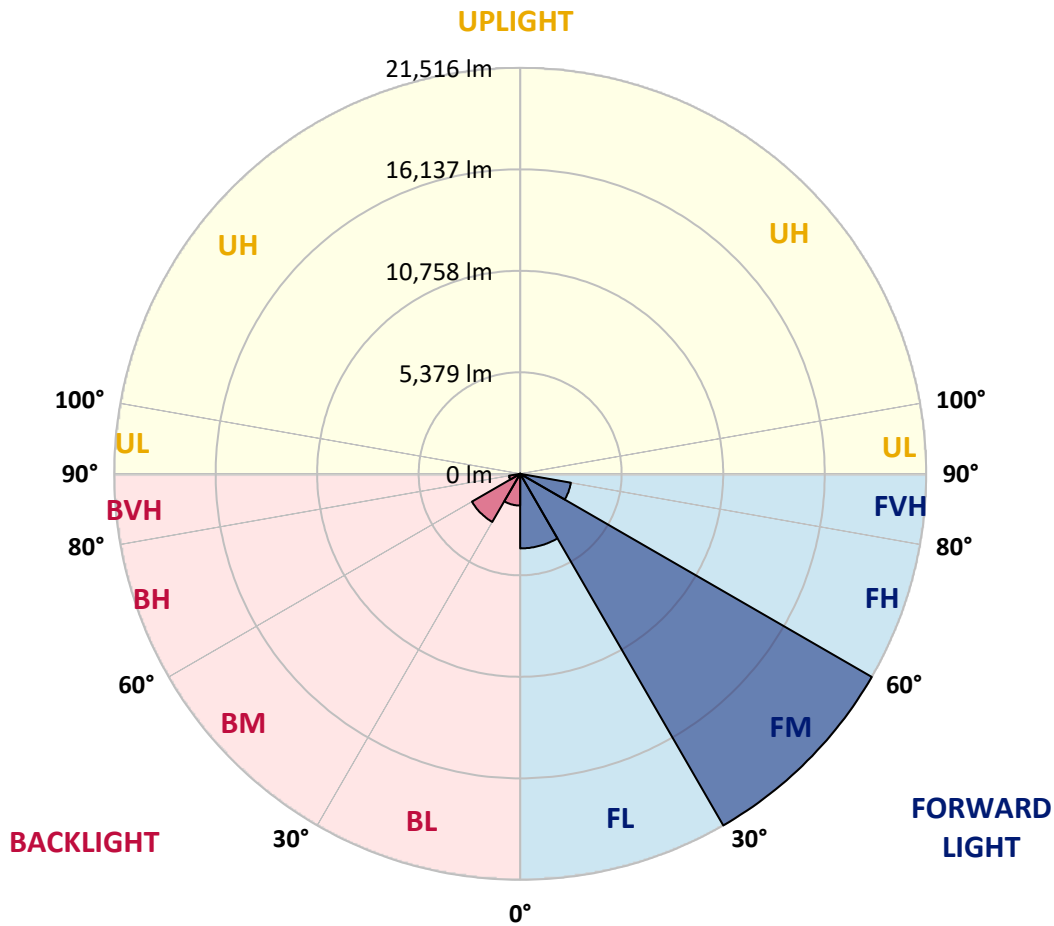
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3953.6	11.8			
FM (30°-60°)	21516.0	64.2			
FH (60°-80°)	2729.5	8.2			G2/5000
FVH (80°-90°)	28.2	0.1			G1/100
BL (0°-30°)	1682.9	5.0	B3/2500		
BM (30°-60°)	2948.4	8.8	B3/5000		
BH (60°-80°)	600.2	1.8	B2/1000		G2/1000
BVH (80°-90°)	29.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5574.1	5574.1	5574.1	5574.1	5574.1	5574.1	5574.1	5574.1	5574.1	5574.1	5574.1
2.5°	6419.8	6271.7	6277.8	6265.5	6247.0	6179.1	5975.4	5944.5	5808.7	5771.7	5648.2
5°	7191.4	7061.8	7135.9	7024.8	6919.8	6858.1	6524.8	6370.4	6154.4	6074.1	5901.3
7.5°	7672.9	7611.2	7586.5	7592.7	7493.9	7339.6	7191.4	6851.9	6561.8	6500.1	6135.9
10°	7907.5	7870.4	7907.5	7889.0	7932.2	7950.7	7691.4	7487.7	7061.8	6956.9	6389.0
12.5°	7963.0	8037.1	8068.0	8148.2	8253.2	8432.2	8413.7	8135.9	7568.0	7500.1	6777.8
15°	8098.8	8160.6	8129.7	8259.3	8456.9	8759.3	8919.8	8876.6	8265.5	8142.1	7228.5
17.5°	8222.3	8111.2	8216.1	8475.4	8672.9	9135.9	9524.8	9703.8	9024.8	8882.8	7642.0
20°	8389.0	8358.1	8339.6	8469.2	8821.1	9438.4	10210.0	10537.1	9876.6	9728.5	8234.6
22.5°	8895.1	8901.3	8889.0	8697.6	8950.7	9648.2	10808.7	11617.4	10895.2	10771.7	8907.5
25°	9561.8	9481.6	9419.8	9265.5	9234.7	9839.6	11413.7	12938.4	12117.4	12031.0	9635.9
27.5°	10265.5	10265.5	10080.3	9938.4	9740.8	10314.9	11969.3	14222.4	13592.7	13475.4	10271.7
30°	11031.0	11074.2	11049.5	10747.0	10623.6	10833.4	12537.2	15864.4	15284.1	15135.9	11321.1
32.5°	12160.6	12068.0	12173.0	11919.9	11555.7	11740.9	13432.2	17333.5	17481.7	17271.8	12697.7
35°	13654.5	13598.9	13531.0	13117.4	12685.3	12833.5	14697.7	19142.2	20240.9	20136.0	14086.6
37.5°	14994.0	14963.1	14907.6	14623.6	14123.6	14302.6	16136.0	21024.9	22932.3	22586.6	16049.5
40°	16401.4	16568.1	16389.0	16136.0	15679.2	16074.2	17827.3	22142.2	25197.8	24778.0	17549.6
42.5°	18308.8	18179.2	18259.4	17796.5	17549.6	17981.7	19524.9	23259.5	26957.1	26457.0	19142.2
45°	20339.7	20345.9	20129.8	19981.7	19339.7	19808.8	20568.1	23876.8	28358.3	27969.4	20345.9
47.5°	21642.2	21636.0	21870.6	22105.2	21444.7	20981.7	21278.0	24463.2	29080.5	28901.5	20784.2
50°	21438.5	21500.2	21802.7	22679.2	23024.9	22401.5	21944.7	24290.4	29407.7	29389.2	21160.7
52.5°	18648.3	18852.0	19358.2	20623.7	22364.4	23136.0	22642.2	24611.3	29568.2	29599.1	21722.4
55°	14197.7	14308.8	15271.8	16808.8	18734.7	21376.7	22364.4	24864.4	29691.6	29747.2	22401.5
56°	12314.9	12018.6	13407.5	14500.1	16802.6	19691.5	21660.7	24666.9	29617.6	30043.5	22741.0
57.5°	9296.4	9098.9	10222.3	11586.5	13802.6	16852.0	19475.5	23734.8	29117.6	29111.4	22253.3
60°	5654.4	5456.8	6321.0	7123.5	8364.3	10376.6	13160.6	18901.4	24617.5	25136.0	18018.7
62.5°	3364.2	3487.7	4339.5	4827.2	5228.4	5438.3	6808.7	11234.7	16426.1	16796.5	11179.1
65°	2240.8	2284.0	2926.0	3728.4	3907.4	3111.1	2771.6	4549.4	7123.5	6895.1	4611.2
67.5°	1382.7	1481.5	1963.0	2802.5	3105.0	2271.6	1314.8	1697.5	1963.0	1963.0	1333.3
70°	839.5	888.9	1308.7	1907.4	2129.7	1463.0	956.8	956.8	944.5	925.9	796.3
72.5°	401.2	432.1	666.7	981.5	1000.0	771.6	740.7	808.6	790.1	784.0	660.5
75°	172.8	185.2	234.6	308.6	351.9	327.2	450.6	580.3	598.8	580.3	475.3
77.5°	55.6	61.7	86.4	111.1	117.3	142.0	191.4	240.7	277.8	259.3	234.6
80°	6.2	12.3	24.7	55.6	86.4	111.1	142.0	160.5	179.0	179.0	166.7
82.5°	6.2	6.2	24.7	49.4	80.2	104.9	135.8	154.3	179.0	185.2	172.8
85°	0.0	6.2	18.5	43.2	67.9	67.9	61.7	61.7	43.2	43.2	43.2
87.5°	0.0	0.0	6.2	6.2	6.2	12.3	12.3	12.3	12.3	12.3	12.3
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°	5574.1	5574.1	5574.1	5574.1	5574.1	5574.1	5574.1	5574.1	5574.1	5574.1	5574.1
2.5°	5623.5	5611.2	5444.5	5339.6	5284.0	5172.9	5105.0	5055.6	5018.6	4975.4	4981.5
5°	5697.6	5654.4	5376.6	5185.2	4956.8	4833.4	4728.4	4642.0	4586.5	4574.1	4549.4
7.5°	5907.5	5679.1	5259.3	4913.6	4623.5	4500.0	4407.4	4351.9	4376.6	4321.0	4364.2
10°	6068.0	5728.5	5117.3	4617.3	4327.2	4234.6	4185.2	4228.4	4290.2	4265.5	4234.6
12.5°	6265.5	5777.8	4888.9	4333.4	4061.8	3993.9	4080.3	4160.5	4284.0	4333.4	4271.6
15°	6487.7	5833.4	4598.8	4006.2	3833.4	3888.9	4037.1	4179.1	4302.5	4364.2	4401.3
17.5°	6759.3	5814.9	4314.9	3746.9	3617.3	3777.8	3956.8	4086.5	4271.6	4364.2	4339.5
20°	7012.4	5753.1	4000.0	3487.7	3493.9	3642.0	3790.2	4000.0	4098.8	4222.3	4179.1
22.5°	7253.2	5642.0	3672.9	3308.7	3308.7	3537.1	3611.1	3746.9	3833.4	3895.1	3888.9
25°	7592.7	5432.2	3401.3	3135.8	3209.9	3358.1	3419.8	3463.0	3426.0	3475.3	3481.5
27.5°	7833.4	5216.1	3179.0	2981.5	3117.3	3228.4	3209.9	3185.2	3098.8	3030.9	3074.1
30°	8092.7	4963.0	2987.7	2876.6	2950.6	3049.4	2975.3	2901.3	2765.5	2654.3	2660.5
32.5°	8463.0	4845.7	2821.0	2753.1	2851.9	2864.2	2784.0	2672.9	2537.1	2432.1	2425.9
35°	9154.4	4771.7	2679.0	2672.9	2691.4	2697.6	2617.3	2481.5	2425.9	2339.5	2370.4
37.5°	9845.8	4734.6	2580.3	2555.6	2549.4	2555.6	2463.0	2333.4	2438.3	2432.1	2444.5
40°	10728.5	4901.3	2438.3	2407.4	2413.6	2413.6	2296.3	2259.3	2444.5	2463.0	2469.2
42.5°	11623.6	5111.2	2345.7	2246.9	2271.6	2271.6	2209.9	2166.7	2296.3	2172.9	2154.3
45°	12401.4	5419.8	2246.9	2086.4	2148.2	2179.0	2160.5	2086.4	2006.2	1796.3	1796.3
47.5°	12654.4	5691.4	2129.7	1932.1	1981.5	2117.3	2061.7	1907.4	1765.4	1592.6	1580.3
50°	13098.9	5987.7	2037.1	1753.1	1858.0	2024.7	1969.2	1814.8	1654.3	1530.9	1537.1
52.5°	13555.7	6327.2	1864.2	1543.2	1672.9	1950.6	1950.6	1777.8	1530.9	1444.5	1432.1
55°	14240.9	6314.9	1555.6	1265.4	1493.8	1839.5	1870.4	1592.6	1370.4	1302.5	1302.5
56°	14339.6	6030.9	1401.2	1185.2	1413.6	1808.7	1814.8	1543.2	1308.7	1234.6	1234.6
57.5°	13598.9	5444.5	1228.4	1086.4	1314.8	1753.1	1759.3	1500.0	1259.3	1154.3	1142.0
60°	10463.1	3685.2	1024.7	969.1	1191.4	1580.3	1611.1	1364.2	1104.9	1024.7	1018.5
62.5°	5907.5	2043.2	901.2	876.6	1024.7	1345.7	1438.3	1191.4	938.3	895.1	907.4
65°	2697.6	1123.5	759.3	709.9	827.2	1037.0	1160.5	981.5	771.6	722.2	722.2
67.5°	987.7	765.4	648.2	561.7	580.3	672.8	753.1	635.8	512.4	438.3	456.8
70°	703.7	642.0	567.9	487.7	450.6	438.3	432.1	358.0	253.1	197.5	209.9
72.5°	567.9	530.9	475.3	413.6	351.9	296.3	253.1	185.2	117.3	80.2	74.1
75°	407.4	388.9	345.7	296.3	246.9	209.9	172.8	117.3	61.7	30.9	30.9
77.5°	209.9	209.9	203.7	185.2	154.3	123.5	98.8	67.9	37.0	12.3	12.3
80°	160.5	172.8	179.0	160.5	142.0	111.1	80.2	49.4	24.7	6.2	6.2
82.5°	154.3	179.0	191.4	166.7	142.0	104.9	80.2	49.4	24.7	6.2	6.2
85°	37.0	37.0	55.6	61.7	80.2	86.4	67.9	43.2	18.5	6.2	6.2
87.5°	12.3	12.3	12.3	12.3	12.3	12.3	6.2	6.2	6.2	6.2	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)