

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: P943118

Luminaire Tested: **GALN-SB7B-940-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943118  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7B-940-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

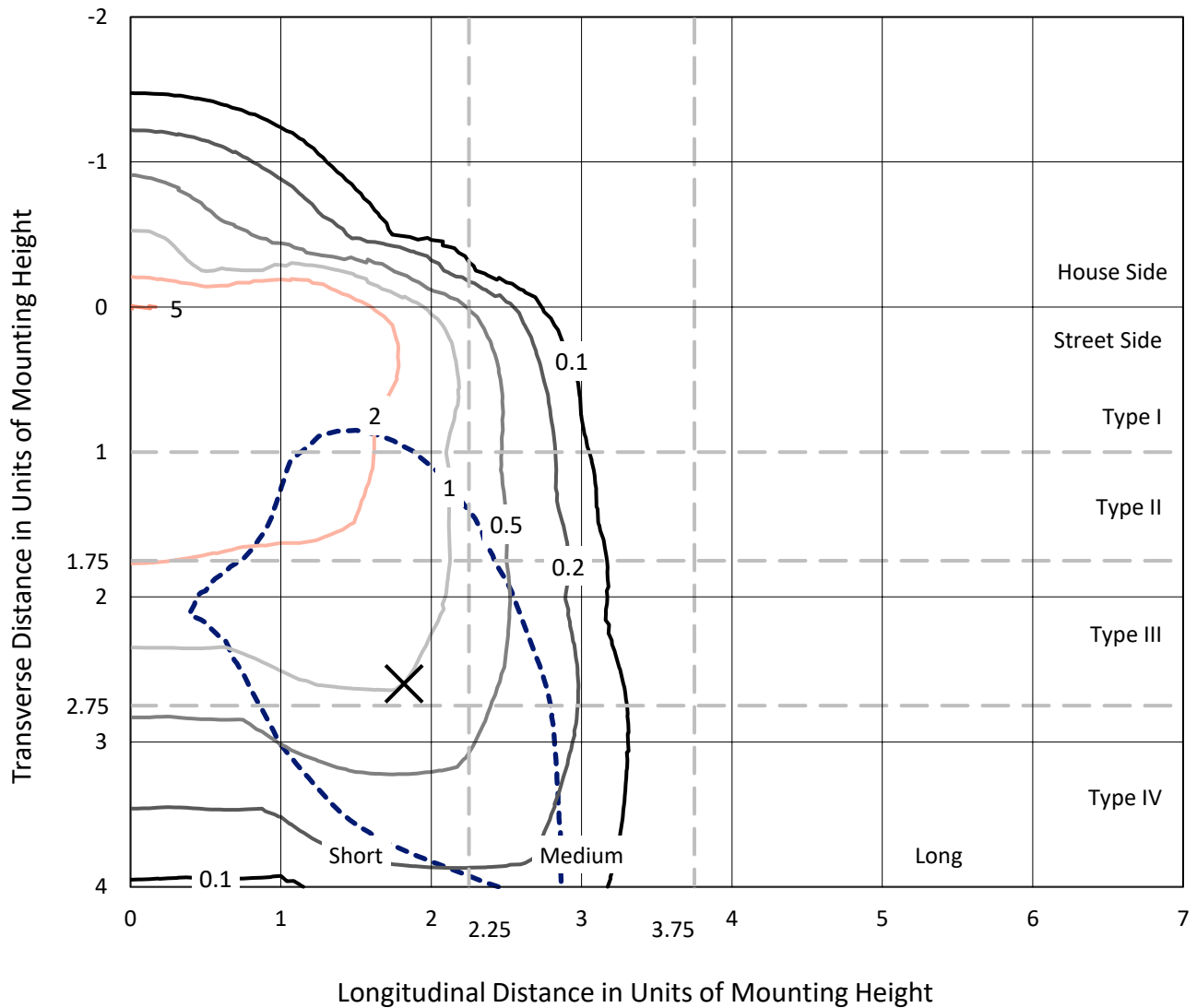
Lumens per Lamp: N/A  
Luminaire Lumens: 21972 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



REPORT NUMBER: P943118  
 CATALOG NUMBER: GALN-SB7B-940-U-T4FT-HSS

### Iso-Footcandle Lines of Horizontal Illumination

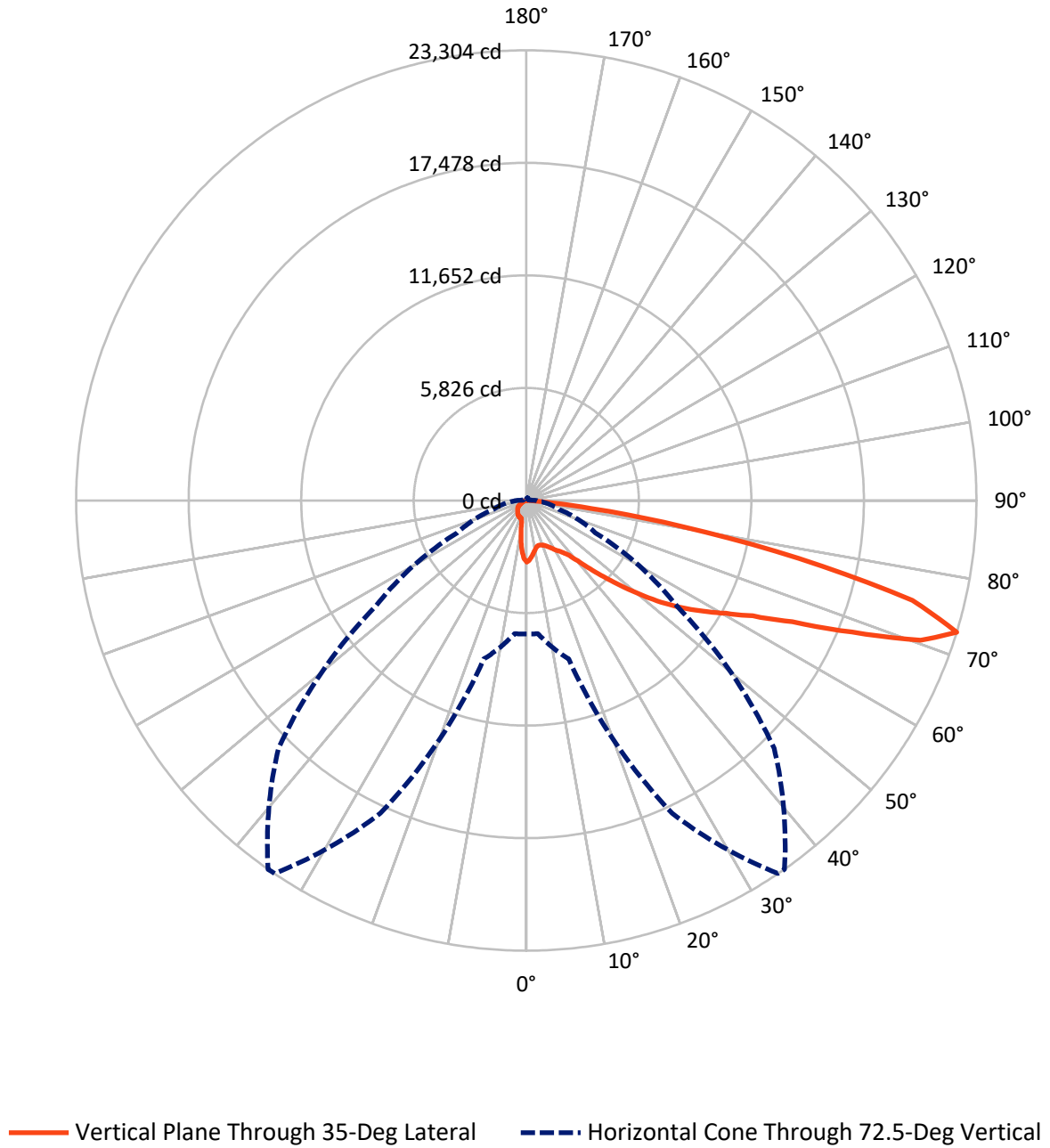
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type IV - Short - N/A

REPORT NUMBER: P943118  
CATALOG NUMBER: GALN-SB7B-940-U-T4FT-HSS

### Luminous Intensity Polar Plot



REPORT NUMBER: P943118  
 CATALOG NUMBER: GALN-SB7B-940-U-T4FT-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2472.8	0.0	2472.8
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	19499.2	0.0	19499.2
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	21972.0	0.0	21972.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.7	1.2
10°-20°	612.2	2.8
20°-30°	994.5	4.5
30°-40°	1659.2	7.6
40°-50°	3139.3	14.3
50°-60°	4988.3	22.7
60°-70°	6170.9	28.1
70°-80°	3835.9	17.5
80°-90°	310.0	1.4
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°	21972.0	100.0
0°-180°	21972.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P943118

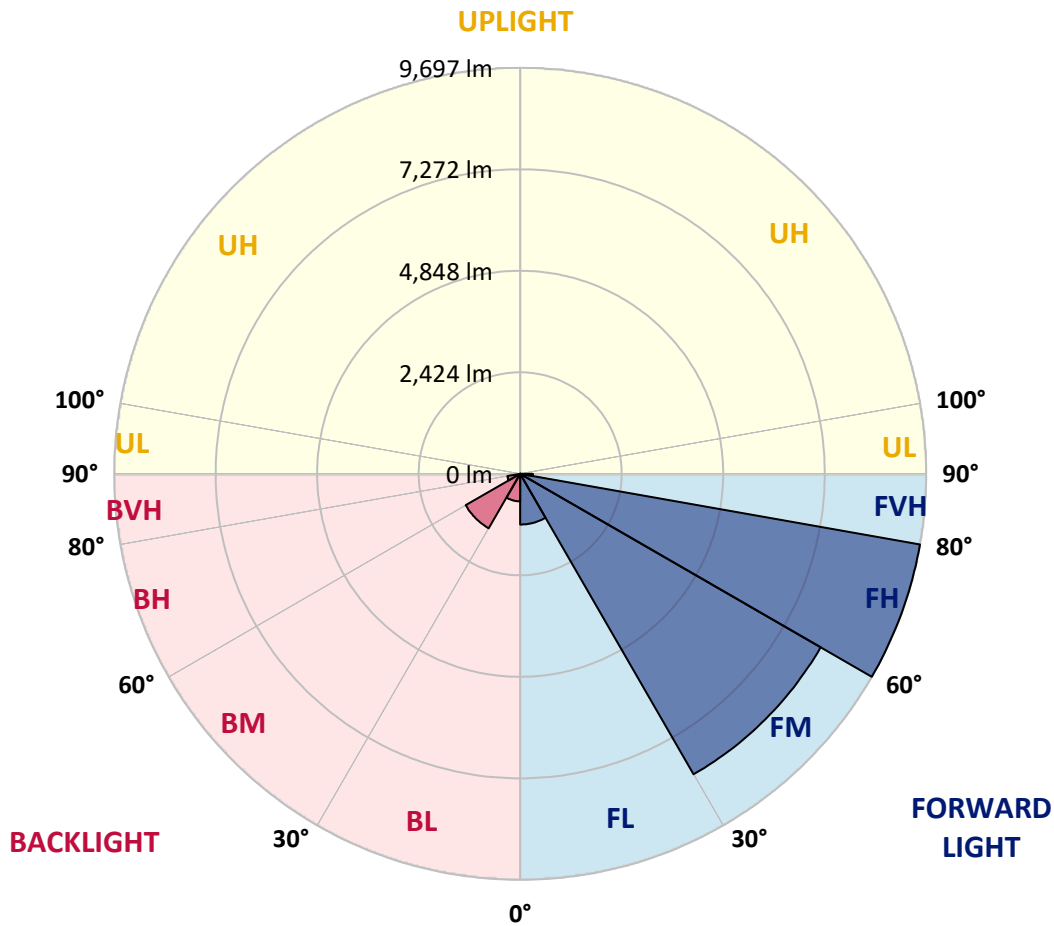
CATALOG NUMBER: GALN-SB7B-940-U-T4FT-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1211.2	5.5			
FM (30°-60°)	8285.6	37.7			
FH (60°-80°)	9696.5	44.1			G4/12000
FVH (80°-90°)	305.8	1.4			G3/500
BL (0°-30°)	657.1	3.0	B2/1000		
BM (30°-60°)	1501.2	6.8	B2/2500		
BH (60°-80°)	310.3	1.4	B1/500		G1/500
BVH (80°-90°)	4.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short



REPORT NUMBER: P943118  
 CATALOG NUMBER: GALN-SB7B-940-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5
2.5°	3042.8	3068.6	3073.4	3081.4	3081.4	3091.1	3107.2	3129.7	3166.8	3186.1
5°	2804.5	2823.9	2848.0	2867.3	2904.3	2909.2	2972.0	3033.1	3118.5	3182.9
7.5°	2564.6	2587.2	2619.4	2666.1	2714.4	2728.9	2823.9	2926.9	3062.1	3182.9
10°	2395.6	2397.2	2426.2	2472.9	2550.2	2567.9	2683.8	2830.3	2999.3	3163.6
12.5°	2300.6	2311.9	2324.8	2360.2	2434.2	2445.5	2569.5	2741.7	2936.5	3152.3
15°	2300.6	2308.7	2316.7	2334.4	2394.0	2403.7	2513.1	2685.4	2904.3	3157.1
17.5°	2324.8	2337.6	2331.2	2352.1	2414.9	2421.4	2518.0	2669.3	2902.7	3187.7
20°	2382.7	2392.4	2379.5	2392.4	2455.2	2468.1	2567.9	2699.9	2930.1	3240.8
22.5°	2474.5	2479.3	2448.7	2458.4	2522.8	2538.9	2654.8	2786.8	2996.1	3326.2
25°	2590.4	2600.1	2553.4	2564.6	2625.8	2645.1	2778.8	2917.2	3100.8	3443.7
27.5°	2724.0	2728.9	2688.6	2687.0	2765.9	2793.3	2928.5	3078.2	3240.8	3591.8
30°	2877.0	2891.5	2852.8	2846.4	2946.2	2968.7	3102.4	3276.2	3446.9	3814.0
32.5°	2997.7	3009.0	2986.5	3002.6	3104.0	3121.7	3313.3	3556.4	3770.5	4129.5
35°	3171.6	3178.0	3126.5	3155.5	3271.4	3316.5	3601.5	3949.2	4177.8	4525.6
37.5°	3801.1	3801.1	3582.1	3438.9	3549.9	3590.2	3995.9	4443.5	4680.1	5056.9
40°	4672.1	4657.6	4337.2	4044.2	4029.7	4108.6	4557.8	5066.5	5328.9	5694.4
42.5°	5601.0	5578.5	5142.2	4852.4	4804.1	4831.5	5206.6	5834.5	6101.7	6472.0
45°	6425.3	6418.9	6019.6	5630.0	5543.1	5630.0	6016.4	6732.8	6924.4	7314.0
47.5°	7116.0	7116.0	6824.6	6570.2	6525.1	6576.6	7112.8	7729.4	7711.7	8210.7
50°	7911.3	7904.9	7627.9	7518.5	7565.2	7637.6	8375.0	8779.1	8526.3	9091.4
52.5°	8468.3	8507.0	8412.0	8394.3	8632.5	8758.1	9656.5	9806.2	9255.6	9926.9
55°	8909.5	8954.5	9064.0	9188.0	9646.8	9811.0	10897.7	10780.2	9865.8	10651.4
57.5°	9534.1	9469.7	9638.8	9883.5	10625.7	10823.7	12100.4	11699.5	10356.8	11239.1
60°	10292.4	10302.1	10331.0	10640.2	11602.9	11857.3	13285.3	12568.9	10672.4	11599.7
62.5°	11203.6	11218.1	11277.7	11752.6	12915.0	13154.9	14547.5	13280.5	10817.2	11498.3
65°	11140.8	11202.0	11866.9	13491.4	14909.7	15146.4	16020.6	13779.6	10598.3	10570.9
67.5°	10149.1	10248.9	11361.4	15568.2	17917.1	18181.2	17801.2	13877.8	9653.3	8220.4
70°	8848.3	8883.7	10221.6	17435.7	21399.4	21666.7	19395.1	12797.5	7325.3	4585.1
72.5°	6909.9	6918.0	8487.7	17868.8	23289.5	23304.0	18144.1	9500.3	3939.5	1761.3
75°	4936.1	4887.8	5684.7	14491.2	20489.8	20654.0	13602.5	4456.3	1505.3	832.3
77.5°	2646.8	2699.9	3216.7	8593.9	14154.7	14434.8	7421.9	1284.7	766.3	566.7
80°	817.9	862.9	1318.5	3934.7	8017.5	8186.6	2751.4	571.5	534.5	404.1
82.5°	257.6	267.3	615.0	1653.4	3327.8	3405.0	796.9	323.6	365.5	267.3
85°	74.1	75.7	273.7	616.6	822.7	838.8	223.8	125.6	209.3	165.8
87.5°	8.0	25.8	103.0	103.0	72.4	70.8	24.1	27.4	59.6	20.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943118  
 CATALOG NUMBER: GALN-SB7B-940-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3184.5	0°	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5	3184.5
3199.0	2.5°	3190.9	3192.5	3171.6	3136.2	3097.5	3065.3	3025.1	2992.9	2970.4	2963.9
3227.9	5°	3213.5	3202.2	3142.6	3034.8	2906.0	2794.9	2670.9	2572.7	2508.3	2480.9
3258.5	7.5°	3247.3	3215.1	3084.7	2872.1	2625.8	2406.9	2184.7	2012.4	1903.0	1848.2
3287.5	10°	3276.2	3211.8	2988.1	2637.1	2260.4	1928.7	1629.3	1421.6	1305.7	1250.9
3321.3	12.5°	3303.6	3210.2	2862.5	2358.6	1848.2	1442.5	1164.0	1061.0	1028.8	1017.5
3376.1	15°	3355.1	3215.1	2704.7	2039.8	1437.7	1089.9	988.5	986.9	993.3	990.1
3459.8	17.5°	3426.0	3219.9	2526.0	1701.7	1109.3	961.1	956.3	970.8	980.5	975.6
3564.4	20°	3517.7	3239.2	2336.0	1366.8	953.1	928.9	940.2	953.1	961.1	953.1
3704.5	22.5°	3646.5	3273.0	2128.4	1098.0	903.2	909.6	919.3	933.8	941.8	930.6
3883.2	25°	3804.3	3326.2	1923.9	954.7	879.0	887.1	901.6	917.7	927.3	916.1
4108.6	27.5°	4008.8	3411.5	1735.5	922.5	854.9	859.7	880.6	904.8	917.7	903.2
4429.0	30°	4305.0	3551.5	1572.9	937.0	840.4	829.1	858.1	891.9	906.4	893.5
4865.3	32.5°	4697.8	3749.6	1473.1	959.5	834.0	793.7	821.1	864.5	888.7	880.6
5435.2	35°	5213.0	4050.6	1434.5	985.3	829.1	756.7	776.0	822.7	864.5	872.6
6153.2	37.5°	5837.7	4469.2	1445.7	996.6	814.6	726.1	735.7	776.0	830.7	856.5
6961.4	40°	6547.7	4957.0	1510.1	985.3	798.5	700.3	701.9	732.5	780.8	819.5
7830.8	42.5°	7280.2	5527.0	1629.3	943.4	784.0	677.8	673.0	693.9	726.1	753.5
8698.6	45°	7977.3	6113.0	1746.8	885.5	766.3	655.2	644.0	652.0	658.5	669.7
9543.8	47.5°	8585.9	6525.1	1713.0	832.3	742.2	629.5	610.2	607.0	587.6	586.0
10298.8	50°	9006.1	6615.3	1521.4	779.2	706.8	600.5	569.9	550.6	516.8	500.7
10863.9	52.5°	9139.7	6259.5	1242.9	726.1	648.8	561.9	518.4	487.8	446.0	431.5
11189.1	55°	8962.6	5562.4	993.3	661.7	568.3	510.4	462.1	421.8	388.0	370.3
11224.6	57.5°	8529.5	4675.3	785.7	586.0	483.0	452.4	404.1	363.8	334.9	317.2
10831.7	60°	7811.5	3712.5	621.4	495.9	412.1	389.6	339.7	313.9	288.2	267.3
9817.5	62.5°	6721.5	2650.0	487.8	392.8	344.5	318.8	289.8	270.5	239.9	210.9
7993.4	65°	5245.2	1621.2	376.7	288.2	276.9	264.0	246.3	228.6	191.6	162.6
5214.6	67.5°	3308.4	767.9	268.9	217.3	219.0	212.5	204.5	190.0	162.6	136.8
2336.0	70°	1457.0	371.9	177.1	165.8	162.6	162.6	169.0	164.2	138.5	114.3
811.4	72.5°	495.9	199.6	132.0	125.6	117.5	115.9	141.7	136.8	111.1	88.5
404.1	75°	259.2	133.6	96.6	90.2	70.8	85.3	112.7	106.3	78.9	58.0
267.3	77.5°	169.0	95.0	66.0	58.0	40.2	56.3	83.7	74.1	46.7	29.0
175.5	80°	106.3	62.8	38.6	27.4	19.3	30.6	45.1	32.2	17.7	6.4
103.0	82.5°	56.3	32.2	14.5	9.7	8.0	9.7	11.3	8.0	3.2	0.0
53.1	85°	22.5	11.3	4.8	3.2	1.6	0.0	3.2	1.6	0.0	0.0
9.7	87.5°	8.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

(END O

<u>180°</u>
3184.5
2975.2
2490.6
1856.3
1252.5
1014.3
988.5
974.0
951.5
928.9
914.5
903.2
891.9
880.6
872.6
862.9
832.3
764.7
676.2
584.4
502.3
429.9
370.3
313.9
262.4
206.1
157.8
133.6
109.5
83.7
53.1
25.8
4.8
0.0
0.0
0.0
0.0

F REPORT)