

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: P949991

Luminaire Tested: **GALN-SB4C-827-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949991  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4C-827-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

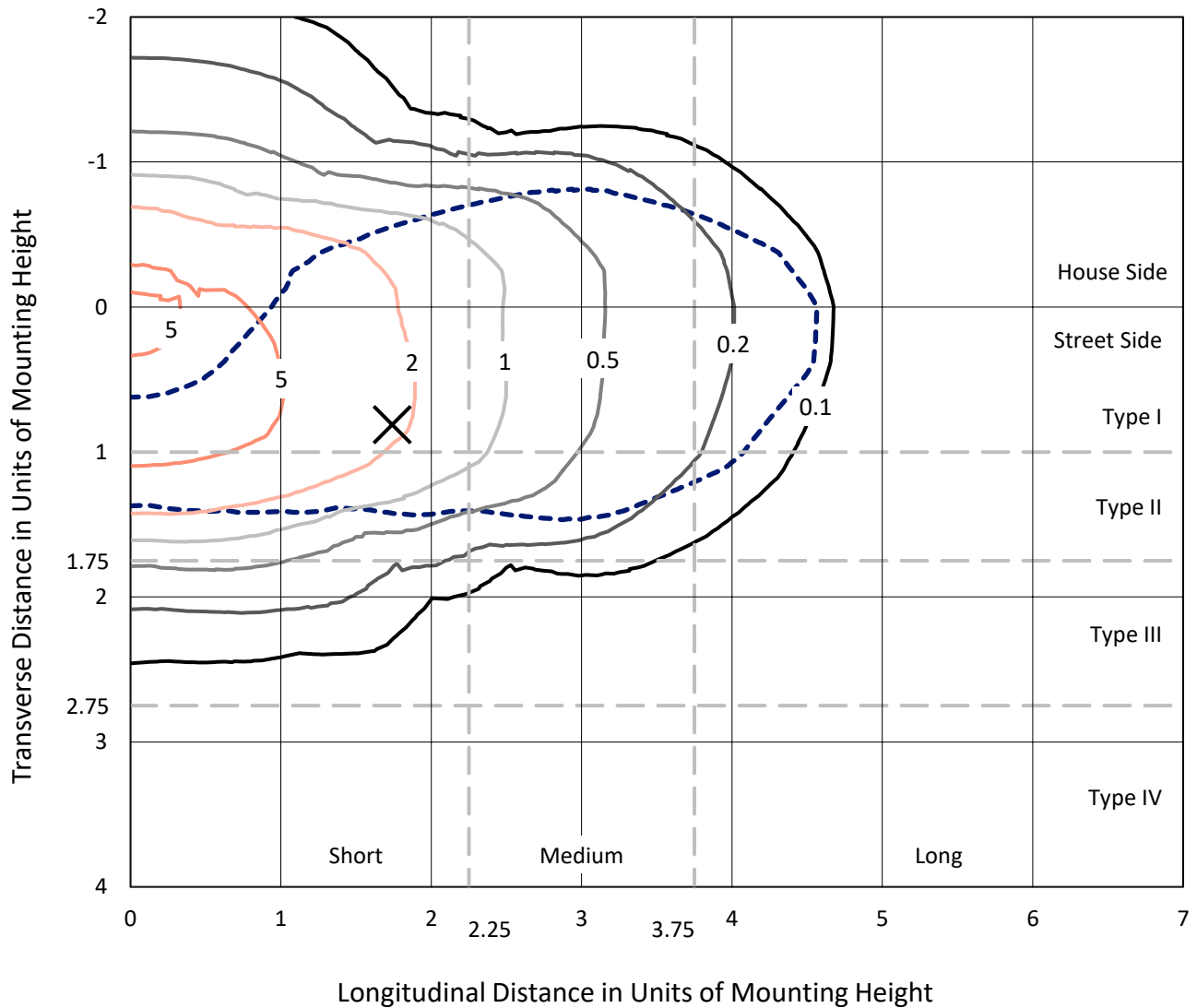
Lumens per Lamp: N/A  
Luminaire Lumens: 26449 lumens  
Efficiency: N/A  
Efficacy: 131.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P949991  
 CATALOG NUMBER: GALN-SB4C-827-U-T2U

### Iso-Footcandle Lines of Horizontal Illumination

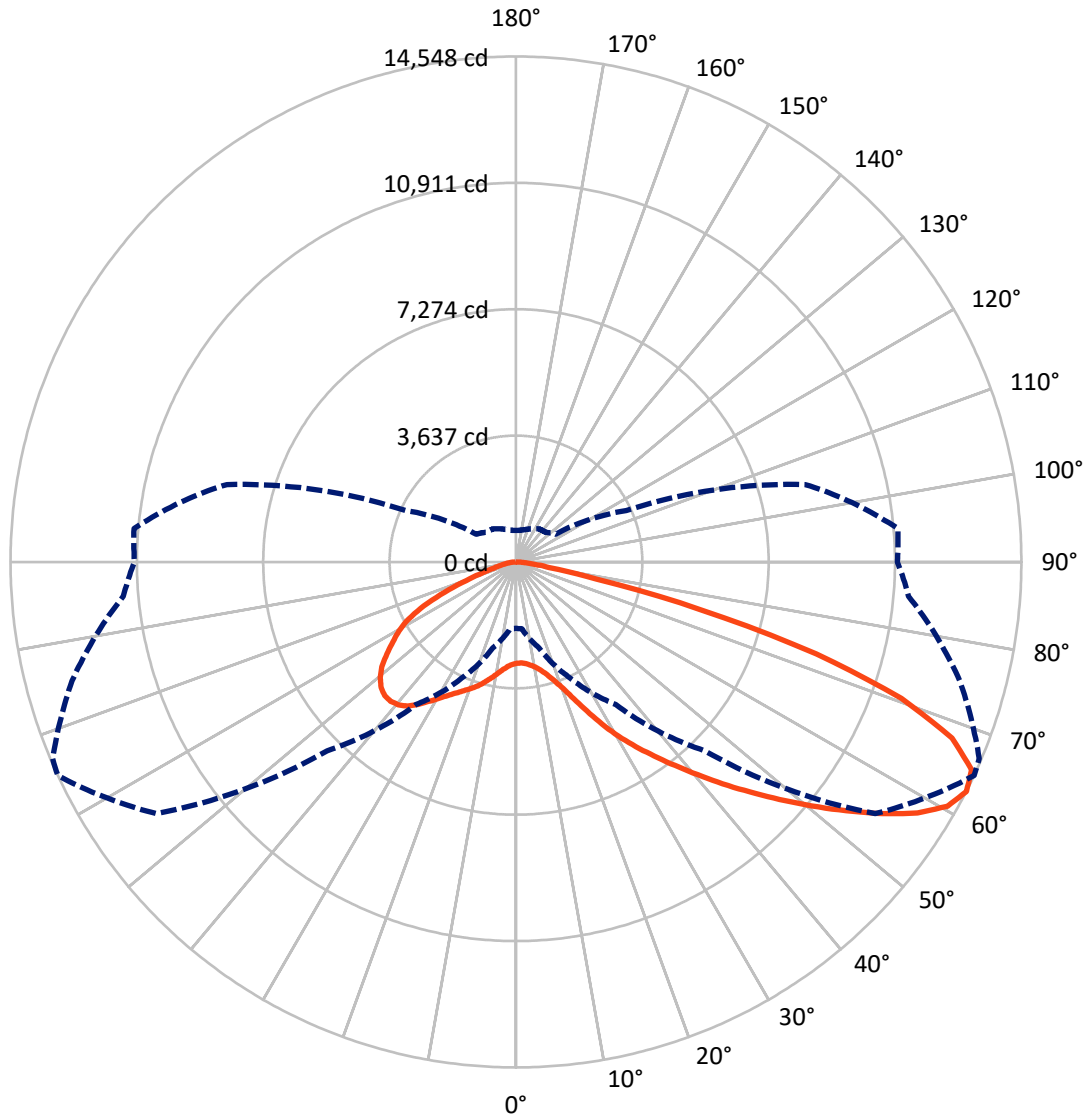
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P949991  
CATALOG NUMBER: GALN-SB4C-827-U-T2U

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P949991  
 CATALOG NUMBER: GALN-SB4C-827-U-T2U

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8346.2	0.0	8346.2
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	18102.9	0.0	18102.9
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	26449.0	0.0	26449.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.6	1.1
10°-20°	985.4	3.7
20°-30°	1998.0	7.6
30°-40°	3457.4	13.1
40°-50°	5232.2	19.8
50°-60°	6134.4	23.2
60°-70°	5142.9	19.4
70°-80°	2839.3	10.7
80°-90°	368.8	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°	26449.0	100.0
0°-180°	26449.0	100.0

**Coefficient of Utilization**

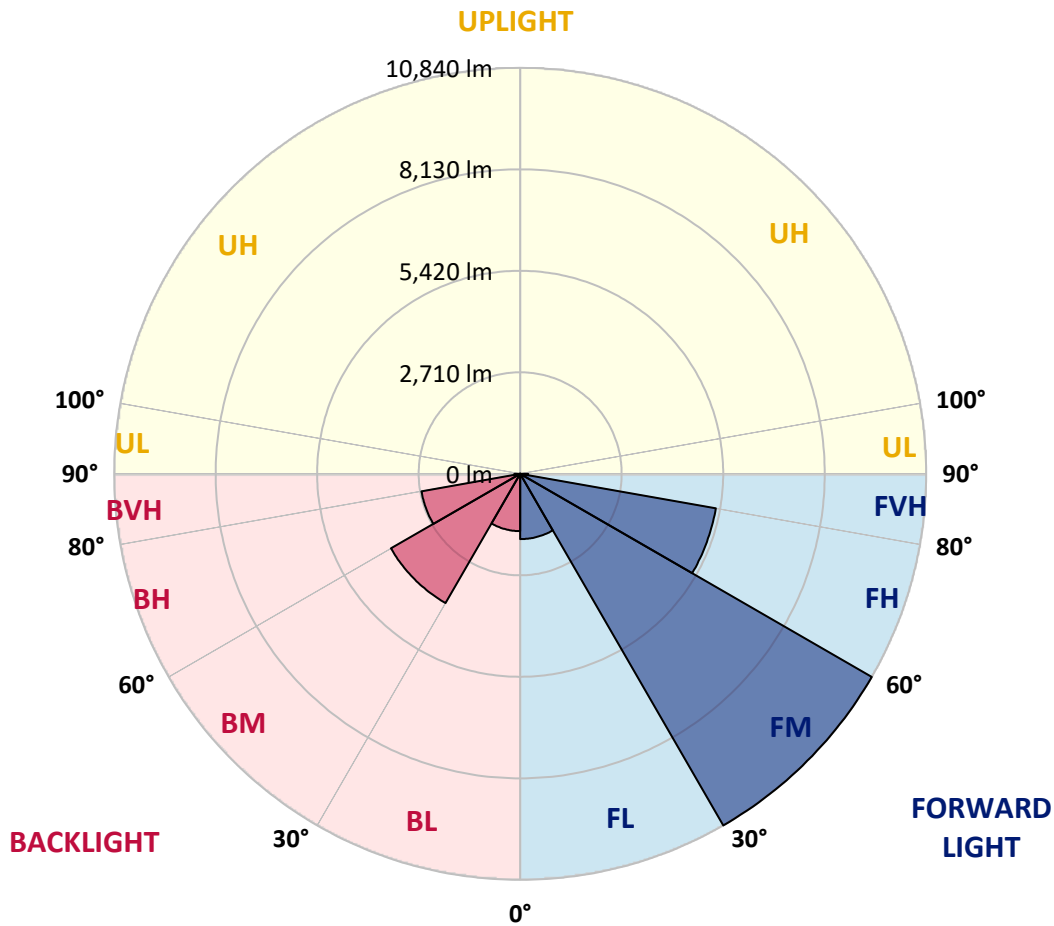


REPORT NUMBER: P949991  
 CATALOG NUMBER: GALN-SB4C-827-U-T2U

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1743.3	6.6			
FM (30°-60°)	10839.7	41.0			
FH (60°-80°)	5304.9	20.1			G3/7500
FVH (80°-90°)	215.0	0.8			G2/225
BL (0°-30°)	1530.6	5.8	B3/2500		
BM (30°-60°)	3984.3	15.1	B3/5000		
BH (60°-80°)	2677.4	10.1	B4/5000		G4/5000
BVH (80°-90°)	153.9	0.6			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



REPORT NUMBER: P949991  
 CATALOG NUMBER: GALN-SB4C-827-U-T2U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6
2.5°	2895.4	2887.1	2894.0	2894.0	2896.7	2895.4	2905.0	2907.7	2911.8	2920.1
5°	2866.5	2865.2	2877.5	2888.5	2899.5	2909.1	2921.4	2939.3	2942.0	2951.6
7.5°	2856.9	2848.7	2867.9	2881.6	2907.7	2931.0	2964.0	2994.2	3006.5	3010.6
10°	2931.0	2917.3	2935.1	2943.4	2965.3	2988.7	3027.1	3075.1	3088.8	3105.3
12.5°	3057.3	3042.2	3068.3	3080.6	3101.2	3121.8	3147.8	3194.5	3201.4	3231.5
15°	3230.2	3212.3	3228.8	3243.9	3278.2	3297.4	3323.5	3368.8	3368.8	3392.1
17.5°	3464.8	3441.5	3453.8	3459.3	3481.3	3510.1	3554.0	3593.8	3614.4	3606.2
20°	3814.7	3785.9	3785.9	3758.5	3750.2	3773.6	3831.2	3886.1	3908.0	3865.5
22.5°	4340.3	4299.1	4275.8	4182.5	4145.4	4148.2	4205.8	4273.0	4290.9	4215.4
25°	5008.6	4944.1	4912.5	4775.3	4691.6	4618.8	4664.1	4750.6	4775.3	4682.0
27.5°	5676.8	5680.9	5650.7	5486.1	5347.5	5214.4	5191.1	5281.6	5307.7	5202.0
30°	6614.0	6516.6	6459.0	6261.4	6063.8	5877.2	5781.1	5818.2	5825.0	5698.8
32.5°	7422.3	7397.6	7274.1	7101.2	6847.3	6555.0	6394.5	6335.5	6324.5	6144.7
35°	8343.0	8329.3	8198.9	7993.1	7718.7	7312.5	7022.9	6854.2	6840.4	6588.0
37.5°	9278.9	9278.9	9151.2	8926.2	8642.2	8134.4	7694.0	7426.4	7382.5	7053.1
40°	10025.3	9980.1	10003.4	9908.7	9583.5	9044.2	8439.1	8050.7	7991.7	7596.5
42.5°	10449.3	10434.3	10574.2	10679.9	10546.8	10115.9	9259.6	8727.2	8644.9	8194.8
45°	10544.0	10527.6	10777.3	11164.3	11350.9	11173.9	10151.6	9439.4	9339.2	8820.5
47.5°	10325.8	10292.9	10659.3	11269.9	11868.2	12179.7	11117.6	10212.0	10066.5	9429.8
50°	9669.9	9638.4	10192.7	11003.7	12042.5	12863.1	12166.0	11031.2	10808.9	10083.0
52.5°	8244.2	8259.3	9127.9	10242.1	11813.3	13288.4	13068.9	11894.3	11626.7	10751.2
55°	6421.9	6454.9	7522.4	8749.2	10896.7	13223.9	13685.0	12783.5	12517.3	11379.7
57.5°	4598.3	4743.7	5744.1	6958.5	9136.1	12201.7	13819.5	13628.7	13370.8	12065.8
60°	2980.4	3006.5	4035.7	5259.7	6957.1	10384.9	13546.4	14269.6	14067.9	12765.6
62.5°	1910.1	1927.9	2555.0	3678.9	5007.2	7683.0	12627.0	14548.1	14486.4	13228.1
65°	1403.8	1390.0	1716.6	2431.5	3372.9	4738.2	10841.8	14413.6	14535.8	13517.6
67.5°	1171.9	1152.7	1313.2	1683.7	2485.1	2690.9	8021.9	13539.6	13986.9	13484.7
70°	1067.6	1051.1	1148.5	1250.1	1938.9	1801.7	4043.9	11770.8	12459.6	13110.1
72.5°	904.3	875.5	1008.6	1110.1	1508.1	1381.8	1671.3	9041.5	9881.3	11909.4
75°	701.2	682.0	795.9	977.0	1133.4	1078.6	1056.6	5490.2	6406.8	9210.2
77.5°	555.7	529.7	634.0	761.6	1019.5	813.7	769.8	2364.3	3272.7	5879.9
80°	418.5	395.2	481.6	602.4	783.5	613.4	498.1	964.7	1233.6	2979.1
82.5°	297.8	277.2	336.2	441.9	526.9	550.3	306.0	540.6	607.9	1148.5
85°	190.7	178.4	225.0	277.2	334.8	354.0	186.6	282.7	310.1	473.4
87.5°	104.3	85.1	120.8	129.0	155.1	141.3	89.2	102.9	111.1	171.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949991  
 CATALOG NUMBER: GALN-SB4C-827-U-T2U

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2914.6	0°	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6	2914.6
2920.1	2.5°	2925.5	2929.7	2943.4	2947.5	2957.1	2969.5	2977.7	2985.9	2985.9	2994.2
2964.0	5°	2965.3	2974.9	3003.8	3018.9	3043.6	3068.3	3083.3	3101.2	3112.2	3117.7
3033.9	7.5°	3042.2	3057.3	3098.4	3124.5	3167.1	3201.4	3224.7	3249.4	3254.9	3270.0
3131.4	10°	3146.5	3164.3	3211.0	3260.4	3311.1	3353.7	3375.6	3393.5	3400.3	3403.1
3256.2	12.5°	3265.8	3291.9	3352.3	3412.7	3466.2	3503.2	3508.7	3504.6	3485.4	3468.9
3409.9	15°	3412.7	3436.0	3503.2	3569.1	3621.3	3628.1	3593.8	3571.9	3548.5	3544.4
3581.5	17.5°	3588.3	3600.7	3662.4	3726.9	3731.0	3707.7	3656.9	3636.3	3614.4	3599.3
3805.1	20°	3792.8	3788.7	3832.6	3860.0	3831.2	3759.8	3683.0	3648.7	3626.7	3608.9
4079.6	22.5°	4037.0	4005.5	4000.0	3993.1	3916.3	3766.7	3662.4	3618.5	3584.2	3559.5
4462.4	25°	4392.4	4271.7	4188.0	4141.3	3968.4	3729.7	3596.6	3499.1	3434.6	3392.1
4930.3	27.5°	4837.0	4633.9	4422.6	4308.7	3968.4	3654.2	3437.4	3279.6	3173.9	3130.0
5383.2	30°	5261.0	5048.3	4736.9	4510.4	3958.8	3530.7	3180.8	2961.2	2837.7	2793.8
5770.1	32.5°	5623.3	5391.4	5070.3	4731.4	3935.5	3330.3	2862.4	2619.5	2500.2	2448.0
6153.0	35°	5959.5	5712.5	5405.1	4974.2	3873.7	3036.7	2512.5	2327.3	2194.2	2110.5
6542.7	37.5°	6303.9	6010.3	5722.1	5193.8	3762.6	2693.6	2243.6	2085.8	1929.3	1816.8
6957.1	40°	6678.5	6327.2	6061.0	5324.2	3580.1	2367.1	2035.0	1890.9	1724.9	1605.5
7434.6	42.5°	7116.3	6707.3	6438.4	5391.4	3330.3	2135.2	1899.1	1757.8	1601.4	1503.9
7946.4	45°	7573.2	7125.9	6782.8	5390.0	3051.8	2026.7	1855.2	1715.3	1542.4	1440.8
8472.0	47.5°	8052.1	7563.6	7080.6	5302.2	2810.3	2041.8	1830.5	1623.3	1432.6	1333.8
9003.0	50°	8532.4	8042.5	7368.7	5137.5	2707.4	2008.9	1738.6	1494.3	1269.3	1180.1
9501.2	52.5°	9008.5	8551.6	7617.1	4902.9	2603.1	1886.8	1620.6	1326.9	1202.1	1140.3
10015.7	55°	9487.4	9055.2	7887.4	4561.2	2342.4	1744.1	1423.0	1263.8	1148.5	1092.3
10519.3	57.5°	9967.7	9637.0	8144.0	4219.5	2014.4	1568.4	1314.6	1187.0	1095.0	1047.0
10940.6	60°	10467.2	10302.5	8408.9	3905.3	1690.6	1343.4	1235.0	1125.2	1031.9	978.4
11345.4	62.5°	10981.8	11035.3	8616.1	3500.5	1392.8	1206.2	1163.6	1051.1	960.5	909.8
11680.2	65°	11500.5	11742.0	8751.9	2939.3	1129.3	1075.8	1086.8	970.1	878.2	834.3
11925.8	67.5°	11891.5	12251.1	8713.5	2224.3	926.2	952.3	990.7	885.1	798.6	764.3
11886.0	70°	11935.4	12190.7	8334.8	1523.1	775.3	831.6	883.7	801.4	712.2	687.5
11326.2	72.5°	11350.9	11367.4	7279.6	994.8	655.9	730.0	771.2	716.3	629.8	605.1
9908.7	75°	9818.1	9401.0	5344.7	655.9	548.9	627.1	665.5	627.1	543.4	548.9
7414.0	77.5°	7438.7	6657.9	3245.3	466.5	458.3	526.9	579.1	551.6	480.3	539.3
3728.3	80°	3832.6	3602.0	1447.7	348.5	362.3	421.3	476.2	440.5	380.1	362.3
832.9	82.5°	878.2	1020.9	570.8	249.7	262.1	303.3	363.6	330.7	273.1	230.5
347.2	85°	307.4	336.2	252.5	156.4	153.7	189.4	247.0	220.9	185.2	148.2
146.8	87.5°	97.4	127.6	94.7	63.1	65.9	85.1	113.9	104.3	86.4	56.3
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>
2914.6
2994.2
3120.4
3264.5
3396.2
3468.9
3544.4
3600.7
3610.3
3567.7
3408.6
3152.0
2819.9
2474.1
2137.9
1847.0
1628.8
1523.1
1457.3
1347.5
1185.6
1140.3
1086.8
1038.8
974.3
908.4
832.9
765.7
688.8
603.8
529.7
474.8
330.7
227.8
156.4
59.0
0.0

F REPORT)