

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: P941242

Luminaire Tested: **GALN-SB4C-940-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4C-940-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21560 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

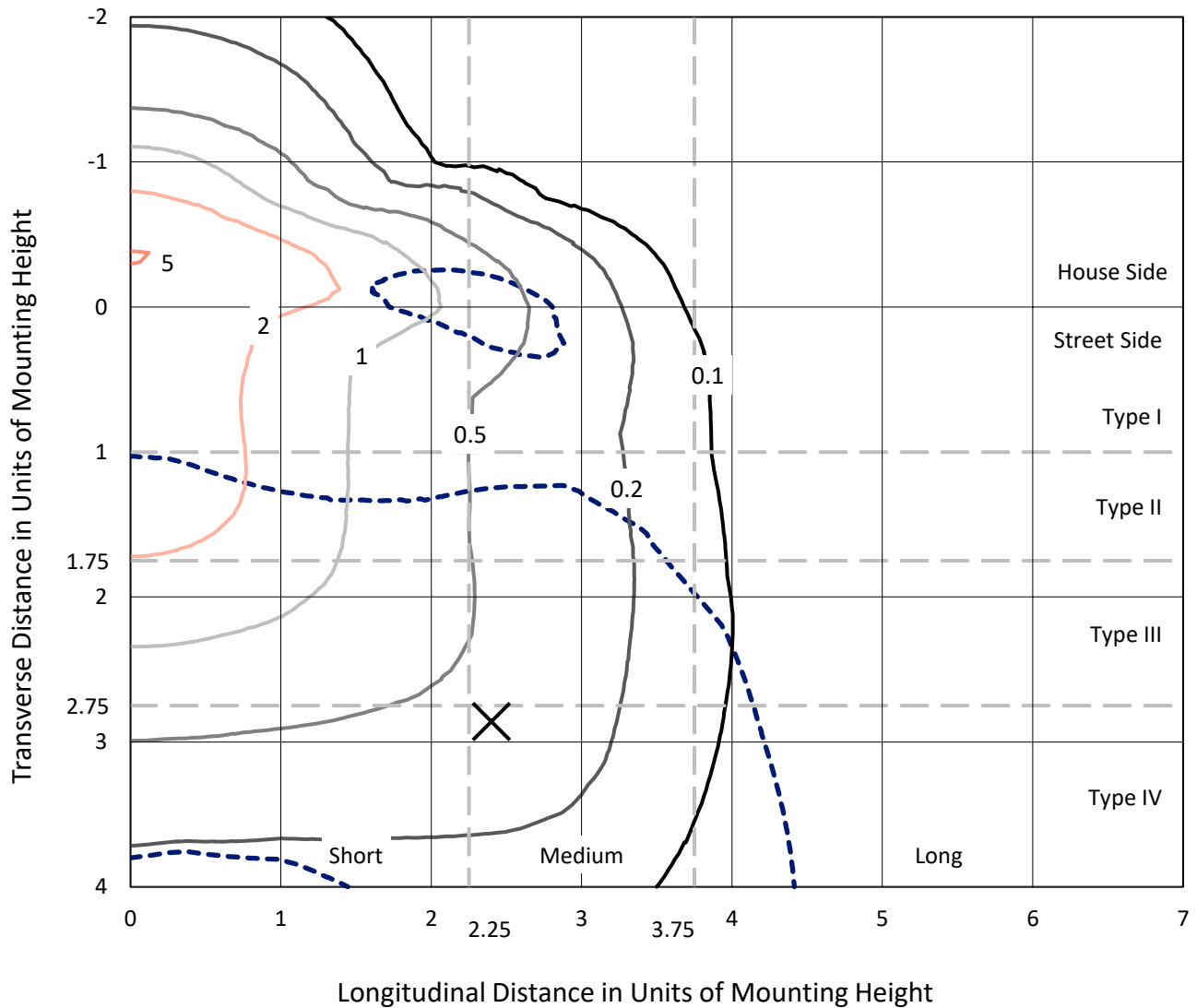
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941242
 CATALOG NUMBER: GALN-SB4C-940-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

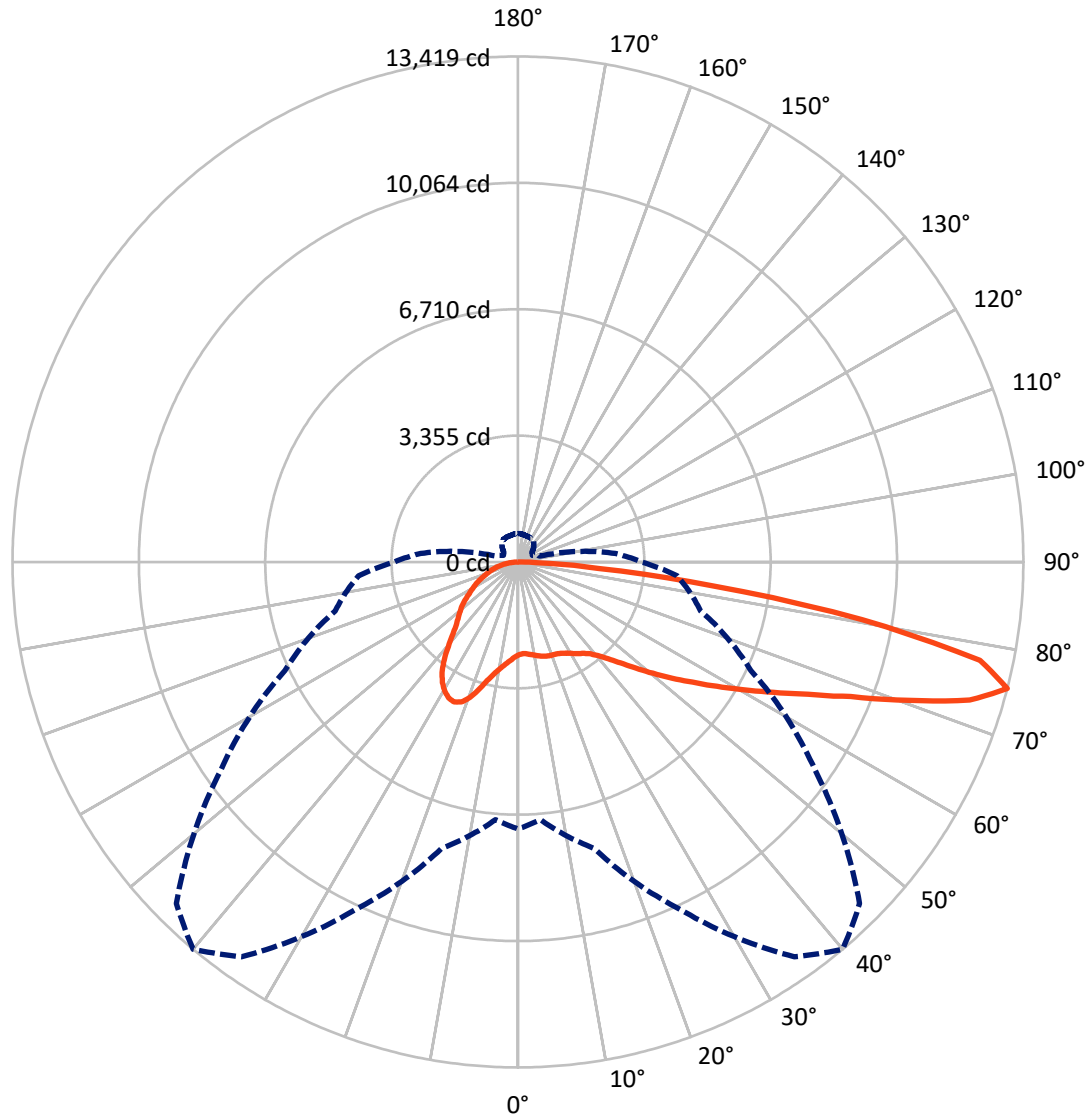
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P941242
CATALOG NUMBER: GALN-SB4C-940-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P941242
 CATALOG NUMBER: GALN-SB4C-940-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6680.0	0.0	6680.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	14880.0	0.0	14880.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	21560.0	0.0	21560.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.1	1.1
10°-20°	826.3	3.8
20°-30°	1508.7	7.0
30°-40°	2139.7	9.9
40°-50°	2889.3	13.4
50°-60°	3886.8	18.0
60°-70°	4933.3	22.9
70°-80°	4477.3	20.8
80°-90°	652.6	3.0
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°	21560.0	100.0
0°-180°	21560.0	100.0



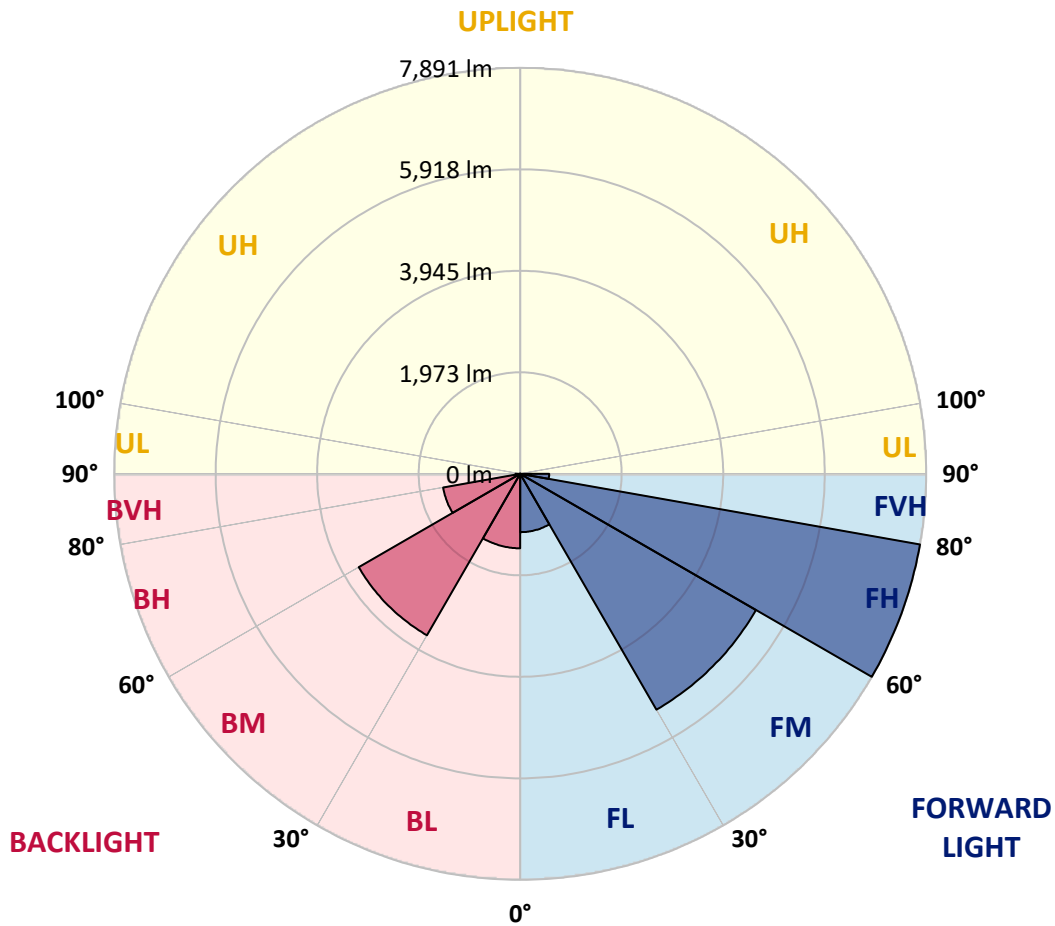
REPORT NUMBER: P941242
 CATALOG NUMBER: GALN-SB4C-940-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1134.1	5.3			
FM (30°-60°)	5292.5	24.5			
FH (60°-80°)	7890.6	36.6			G4/12000
FVH (80°-90°)	562.8	2.6			G4/750
BL (0°-30°)	1447.0	6.7	B3/2500		
BM (30°-60°)	3623.3	16.8	B3/5000		
BH (60°-80°)	1519.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	89.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium



REPORT NUMBER: P941242

CATALOG NUMBER: GALN-SB4C-940-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	2465.4	2465.4	2465.4	2465.4	2465.4	2465.4	2465.4	2465.4	2465.4	2465.4
2.5°	2427.7	2441.4	2438.0	2433.4	2433.4	2434.5	2433.4	2441.4	2449.4	2457.4
5°	2452.8	2466.6	2459.7	2454.0	2449.4	2448.3	2444.8	2443.7	2448.3	2458.6
7.5°	2502.0	2515.7	2505.4	2495.1	2486.0	2481.4	2476.8	2470.0	2466.6	2472.3
10°	2556.9	2570.6	2558.0	2539.7	2524.9	2519.2	2514.6	2507.7	2503.2	2506.6
12.5°	2611.8	2625.5	2608.4	2583.2	2563.8	2560.3	2554.6	2552.3	2551.2	2550.0
15°	2663.2	2674.7	2653.0	2623.2	2602.6	2596.9	2591.2	2594.6	2600.3	2607.2
17.5°	2703.3	2714.7	2682.7	2643.8	2624.4	2622.1	2618.6	2630.1	2646.1	2663.2
20°	2739.9	2751.3	2710.1	2657.5	2634.7	2634.7	2635.8	2659.8	2682.7	2707.8
22.5°	2791.3	2800.5	2750.1	2678.1	2644.9	2647.2	2656.4	2680.4	2709.0	2743.3
25°	2867.9	2874.8	2813.0	2717.0	2679.3	2686.1	2694.1	2705.6	2733.0	2773.0
27.5°	2991.4	2997.1	2916.0	2785.6	2728.4	2739.9	2751.3	2743.3	2755.9	2790.2
30°	3165.2	3168.7	3065.8	2893.1	2811.9	2817.6	2819.9	2786.7	2762.7	2790.2
32.5°	3371.1	3369.9	3247.6	3023.4	2906.8	2901.1	2881.7	2816.5	2760.4	2784.5
35°	3690.1	3677.5	3519.7	3206.4	3014.3	2978.9	2933.1	2849.6	2771.9	2778.7
37.5°	4218.4	4179.5	3961.1	3506.0	3174.4	3084.1	3016.6	2903.4	2797.0	2776.5
40°	4814.2	4765.0	4524.9	3916.5	3414.5	3269.3	3160.7	2980.0	2838.2	2786.7
42.5°	5520.9	5451.1	5192.7	4400.2	3718.7	3508.3	3344.8	3077.2	2898.8	2819.9
45°	6388.8	6296.2	5930.3	4945.7	4101.8	3821.6	3603.2	3224.7	2991.4	2883.9
47.5°	7265.9	7288.8	6768.5	5570.1	4561.5	4208.1	3926.8	3446.5	3126.4	2986.9
50°	8197.8	8213.9	7602.1	6261.9	5082.9	4645.0	4290.5	3694.7	3313.9	3133.2
52.5°	8925.1	8927.4	8359.1	6985.7	5626.1	5125.2	4682.7	3978.3	3531.2	3327.6
55°	9380.2	9374.5	8889.7	7670.7	6250.4	5629.5	5117.2	4300.8	3796.5	3556.3
57.5°	9710.7	9693.6	9255.6	8259.6	6916.0	6225.3	5608.9	4666.7	4109.8	3828.5
60°	9836.5	9826.2	9503.7	8768.5	7615.8	6884.0	6176.1	5076.1	4465.4	4149.8
62.5°	9884.5	9904.0	9747.3	9261.3	8364.8	7613.5	6799.3	5565.5	4865.6	4513.4
65°	10053.8	10089.2	10057.2	9906.3	9211.0	8467.7	7626.1	6147.5	5302.5	4903.4
67.5°	10388.8	10424.3	10438.0	10678.1	10244.7	9532.3	8657.5	6872.5	5813.6	5308.2
70°	10380.8	10370.5	10612.9	11292.2	11539.2	11006.3	10048.1	7764.5	6423.1	5644.4
72.5°	9448.9	9366.5	9939.4	11285.3	12616.4	12545.5	11746.2	8914.8	6949.1	5685.5
75°	7088.6	6869.1	7881.1	10170.4	12795.9	13419.1	12825.6	9628.4	6824.5	5023.5
77.5°	3031.5	2810.8	4003.4	7528.9	11452.3	12544.3	11835.4	8400.2	5447.7	3321.9
80°	793.6	792.5	1209.8	3413.4	7788.5	9263.6	8126.9	5424.8	3112.6	1187.0
82.5°	328.2	320.2	444.8	1327.6	3805.6	5198.4	4242.4	2419.7	1124.1	321.3
85°	122.4	121.2	216.1	458.5	1342.5	2144.1	1551.7	618.6	280.2	156.7
87.5°	34.3	33.2	46.9	158.9	327.0	496.3	265.3	101.8	78.9	61.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941242
 CATALOG NUMBER: GALN-SB4C-940-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2465.4	0°	2465.4	2465.4	2465.4	2465.4	2465.4	2465.4	2465.4	2465.4	2465.4	2465.4
2470.0	2.5°	2473.4	2479.1	2489.4	2497.4	2507.7	2519.2	2535.2	2545.5	2555.8	2562.6
2475.7	5°	2483.7	2496.3	2522.6	2548.9	2579.8	2608.4	2641.5	2665.5	2685.0	2690.7
2496.3	7.5°	2506.6	2527.2	2571.8	2616.4	2665.5	2712.4	2760.4	2801.6	2834.8	2847.3
2532.9	10°	2546.6	2574.0	2636.9	2699.8	2765.0	2837.1	2898.8	2958.3	3005.2	3024.6
2576.3	12.5°	2596.9	2631.2	2713.6	2800.5	2890.8	2990.3	3070.3	3143.5	3201.8	3228.1
2636.9	15°	2662.1	2706.7	2811.9	2928.5	3061.2	3199.6	3301.3	3382.5	3447.7	3479.7
2699.8	17.5°	2733.0	2792.5	2925.1	3101.2	3291.0	3472.8	3591.8	3651.2	3718.7	3749.6
2758.2	20°	2801.6	2874.8	3064.6	3320.8	3573.5	3766.7	3862.8	3878.8	3883.4	3886.8
2813.0	22.5°	2872.5	2970.8	3239.6	3597.5	3868.5	4002.3	4016.0	3947.4	3851.4	3806.8
2866.8	25°	2950.3	3080.6	3468.3	3902.8	4122.4	4138.4	4033.2	3866.2	3684.4	3600.9
2910.2	27.5°	3025.7	3207.6	3742.7	4194.4	4305.3	4164.7	3938.3	3701.6	3482.0	3393.9
2941.1	30°	3101.2	3352.8	4045.8	4449.4	4388.8	4099.5	3788.5	3524.3	3303.6	3211.0
2968.6	32.5°	3177.8	3522.0	4394.5	4633.5	4373.9	3961.1	3602.1	3325.3	3130.9	3033.7
2992.6	35°	3264.7	3730.1	4725.0	4734.1	4274.5	3757.6	3356.2	3087.5	2918.2	2840.5
3021.2	37.5°	3377.9	3994.3	5016.6	4759.3	4100.6	3459.1	3050.9	2806.2	2666.7	2631.2
3063.5	40°	3518.6	4312.2	5239.6	4719.3	3843.3	3096.6	2717.0	2521.4	2442.5	2450.5
3120.6	42.5°	3701.6	4667.8	5396.2	4616.4	3485.4	2722.7	2424.2	2337.3	2375.1	2407.1
3206.4	45°	3939.4	5037.2	5493.4	4441.4	3080.6	2406.0	2251.6	2272.2	2300.7	2304.2
3344.8	47.5°	4243.6	5411.1	5557.5	4177.3	2667.8	2183.0	2141.8	2146.4	2140.7	2116.6
3551.8	50°	4623.2	5774.7	5614.7	3827.3	2316.8	2043.5	1988.6	1972.6	1893.7	1815.9
3827.3	52.5°	5055.5	6108.6	5638.7	3392.8	2043.5	1926.8	1837.6	1737.0	1589.5	1565.5
4173.8	55°	5535.7	6417.4	5576.9	2858.8	1813.6	1777.0	1642.1	1520.9	1504.9	1484.3
4630.1	57.5°	6109.8	6750.2	5451.1	2263.0	1578.0	1602.1	1470.6	1484.3	1455.7	1423.7
5216.7	60°	6737.6	7094.4	5230.4	1719.8	1334.5	1383.7	1426.0	1424.8	1416.8	1390.5
5835.3	62.5°	7302.5	7320.8	4795.9	1317.3	1120.6	1214.4	1329.9	1328.8	1321.9	1307.0
6481.4	65°	7638.7	7286.5	4070.9	1037.2	944.5	1074.9	1199.5	1208.7	1209.8	1208.7
6967.4	67.5°	7579.2	6885.1	3076.1	825.6	799.3	933.1	1070.3	1082.9	1092.1	1094.3
7029.2	70°	6906.8	6003.4	2005.7	658.7	670.1	808.5	948.0	960.6	968.6	977.7
6099.5	72.5°	5383.7	4414.0	1148.1	532.9	556.9	701.0	826.8	841.6	846.2	863.4
4244.7	75°	3280.7	2595.8	619.8	419.7	457.4	599.2	706.7	723.8	731.8	752.4
2084.6	77.5°	1559.8	1124.1	353.3	327.0	368.2	489.4	596.9	616.4	594.6	606.1
575.2	80°	527.2	417.4	223.0	249.3	281.3	381.9	478.0	497.4	451.7	449.4
191.0	82.5°	184.1	169.2	141.8	165.8	181.8	273.3	361.4	386.5	336.2	335.0
85.8	85°	72.0	68.6	78.9	90.3	108.6	168.1	237.9	250.4	207.0	167.0
25.2	87.5°	14.9	16.0	19.4	20.6	33.2	58.3	85.8	105.2	83.5	70.9
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>
2465.4
2558.0
2693.0
2848.5
3025.7
3228.1
3477.4
3748.4
3895.9
3819.3
3613.5
3404.2
3221.3
3046.3
2857.6
2656.4
2478.0
2436.8
2327.0
2134.9
1826.2
1573.5
1487.7
1418.0
1381.4
1301.3
1208.7
1096.6
982.3
870.2
754.7
596.9
444.8
319.0
164.7
65.2
0.0

F REPORT)