

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: P943628

Luminaire Tested: **GALN-SB8A-940-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943628
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-SB8A-940-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 350mA 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: 19901 lumens
Efficiency: N/A
Efficacy: 87.6 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

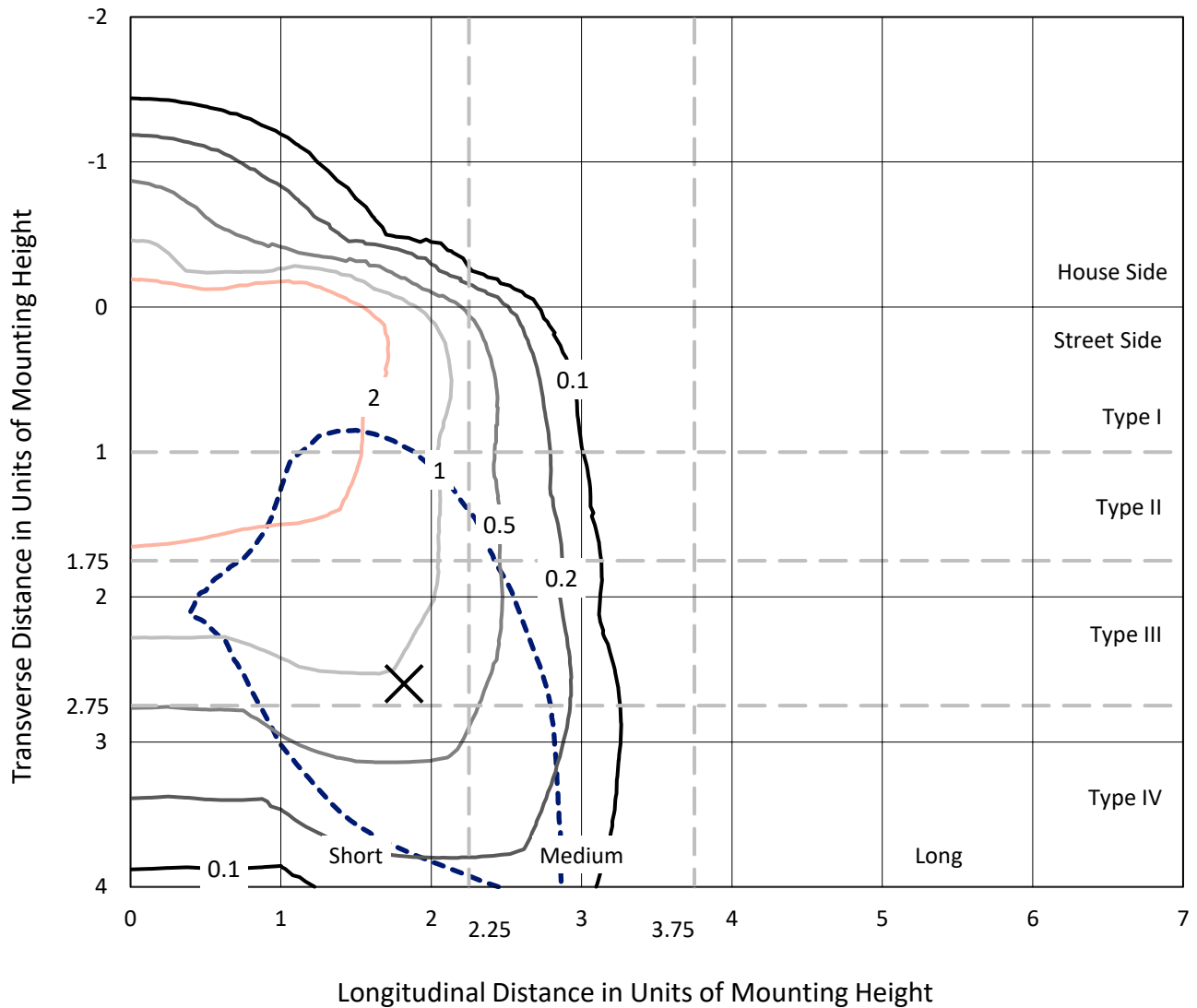
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943628
 CATALOG NUMBER: GALN-SB8A-940-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

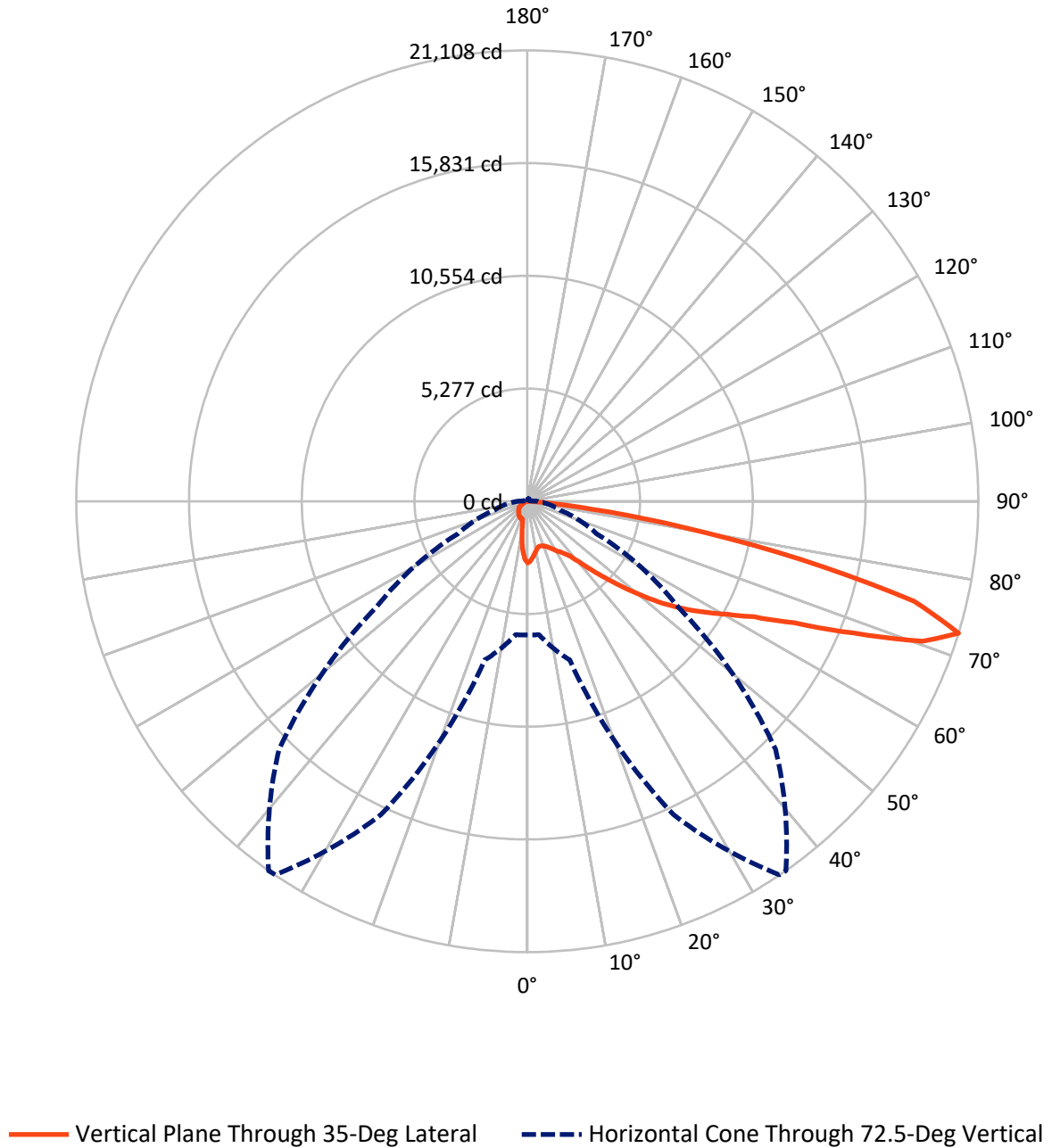
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P943628
CATALOG NUMBER: GALN-SB8A-940-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P943628
 CATALOG NUMBER: GALN-SB8A-940-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2239.8	0.0	2239.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	17661.2	0.0	17661.2
	% Fixture	88.7	0.0	88.7
Total	Lumens	19901.0	0.0	19901.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.0	1.2
10°-20°	554.5	2.8
20°-30°	900.7	4.5
30°-40°	1502.8	7.6
40°-50°	2843.4	14.3
50°-60°	4518.2	22.7
60°-70°	5589.3	28.1
70°-80°	3474.3	17.5
80°-90°	280.8	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°	19901.0	100.0
0°-180°	19901.0	100.0

Coefficient of Utilization



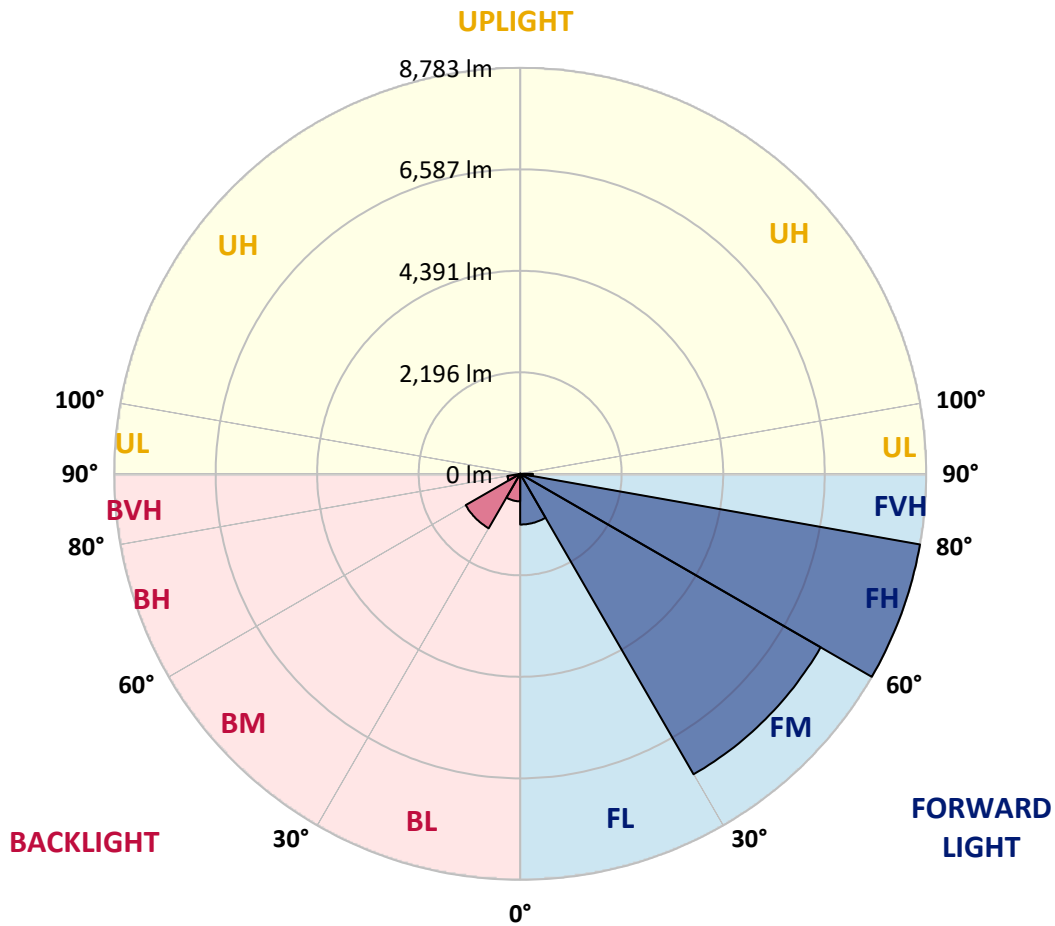
REPORT NUMBER: P943628
 CATALOG NUMBER: GALN-SB8A-940-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1097.1	5.5			
FM (30°-60°)	7504.7	37.7			
FH (60°-80°)	8782.6	44.1			G4/12000
FVH (80°-90°)	277.0	1.4			G3/500
BL (0°-30°)	595.1	3.0	B2/1000		
BM (30°-60°)	1359.7	6.8	B2/2500		
BH (60°-80°)	281.1	1.4	B1/500		G1/500
BVH (80°-90°)	3.8	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: P943628
 CATALOG NUMBER: GALN-SB8A-940-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	2884.3	2884.3	2884.3	2884.3	2884.3	2884.3	2884.3	2884.3	2884.3	2884.3
2.5°	2756.0	2779.3	2783.7	2791.0	2791.0	2799.7	2814.3	2834.7	2868.3	2885.8
5°	2540.2	2557.7	2579.6	2597.1	2630.6	2635.0	2691.8	2747.3	2824.5	2882.9
7.5°	2322.9	2343.3	2372.5	2414.8	2458.5	2471.7	2557.7	2651.0	2773.5	2882.9
10°	2169.8	2171.3	2197.5	2239.8	2309.8	2325.8	2430.8	2563.5	2716.6	2865.4
12.5°	2083.8	2094.0	2105.6	2137.7	2204.8	2215.0	2327.3	2483.3	2659.8	2855.2
15°	2083.8	2091.1	2098.4	2114.4	2168.3	2177.1	2276.3	2432.3	2630.6	2859.5
17.5°	2105.6	2117.3	2111.5	2130.4	2187.3	2193.1	2280.6	2417.7	2629.1	2887.2
20°	2158.1	2166.9	2155.2	2166.9	2223.8	2235.4	2325.8	2445.4	2653.9	2935.4
22.5°	2241.3	2245.6	2217.9	2226.7	2285.0	2299.6	2404.6	2524.1	2713.7	3012.6
25°	2346.2	2355.0	2312.7	2322.9	2378.3	2395.8	2516.9	2642.3	2808.5	3119.1
27.5°	2467.3	2471.7	2435.2	2433.7	2505.2	2530.0	2652.5	2788.1	2935.4	3253.2
30°	2605.8	2618.9	2583.9	2578.1	2668.5	2688.9	2810.0	2967.4	3122.0	3454.5
32.5°	2715.2	2725.4	2705.0	2719.5	2811.4	2827.5	3001.0	3221.2	3415.1	3740.3
35°	2872.7	2878.5	2831.8	2858.1	2963.1	3003.9	3262.0	3577.0	3784.0	4099.0
37.5°	3442.8	3442.8	3244.5	3114.7	3215.3	3251.8	3619.3	4024.6	4239.0	4580.2
40°	4231.7	4218.6	3928.4	3663.0	3649.9	3721.3	4128.2	4589.0	4826.6	5157.7
42.5°	5073.1	5052.7	4657.5	4395.0	4351.3	4376.1	4715.8	5284.5	5526.6	5862.0
45°	5819.7	5813.8	5452.2	5099.3	5020.6	5099.3	5449.3	6098.2	6271.7	6624.6
47.5°	6445.2	6445.2	6181.3	5950.9	5910.1	5956.8	6442.3	7000.8	6984.8	7436.8
50°	7165.6	7159.8	6909.0	6809.8	6852.1	6917.7	7585.6	7951.6	7722.6	8234.5
52.5°	7670.1	7705.1	7619.1	7603.1	7818.9	7932.6	8746.3	8881.9	8383.2	8991.3
55°	8069.7	8110.5	8209.7	8322.0	8737.5	8886.3	9870.6	9764.1	8935.9	9647.5
57.5°	8635.5	8577.1	8730.3	8951.9	9624.1	9803.5	10959.8	10596.7	9380.6	10179.7
60°	9322.3	9331.0	9357.3	9637.3	10509.3	10739.7	12033.1	11384.2	9666.4	10506.3
62.5°	10147.6	10160.7	10214.7	10644.9	11697.7	11915.0	13176.3	12028.7	9797.7	10414.5
65°	10090.8	10146.2	10748.4	12219.7	13504.4	13718.8	14510.6	12480.7	9599.3	9574.5
67.5°	9192.5	9282.9	10290.5	14100.8	16228.3	16467.5	16123.3	12569.7	8743.4	7445.6
70°	8014.3	8046.4	9258.1	15792.3	19382.4	19624.5	17567.0	11591.2	6634.8	4153.0
72.5°	6258.6	6265.9	7687.6	16184.6	21094.3	21107.5	16433.9	8604.8	3568.2	1595.3
75°	4470.8	4427.1	5148.9	13125.3	18558.5	18707.3	12320.3	4036.3	1363.4	753.9
77.5°	2397.3	2445.4	2913.5	7783.9	12820.5	13074.2	6722.3	1163.6	694.1	513.3
80°	740.8	781.6	1194.3	3563.8	7261.8	7415.0	2492.1	517.7	484.1	366.0
82.5°	233.3	242.1	557.0	1497.6	3014.1	3084.1	721.8	293.1	331.0	242.1
85°	67.1	68.5	247.9	558.5	745.1	759.7	202.7	113.7	189.6	150.2
87.5°	7.3	23.3	93.3	93.3	65.6	64.2	21.9	24.8	54.0	19.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943628
 CATALOG NUMBER: GALN-SB8A-940-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2884.3	0°	2884.3	2884.3	2884.3	2884.3	2884.3	2884.3	2884.3	2884.3	2884.3	2884.3
2897.4	2.5°	2890.2	2891.6	2872.7	2840.6	2805.6	2776.4	2740.0	2710.8	2690.4	2684.5
2923.7	5°	2910.6	2900.4	2846.4	2748.7	2632.1	2531.4	2419.2	2330.2	2271.9	2247.1
2951.4	7.5°	2941.2	2912.0	2793.9	2601.4	2378.3	2180.0	1978.8	1822.8	1723.6	1674.0
2977.6	10°	2967.4	2909.1	2706.4	2388.5	2047.3	1746.9	1475.7	1287.6	1182.6	1133.0
3008.3	12.5°	2992.2	2907.7	2592.7	2136.3	1674.0	1306.5	1054.3	961.0	931.8	921.6
3057.8	15°	3038.9	2912.0	2449.8	1847.5	1302.2	987.2	895.3	893.9	899.7	896.8
3133.7	17.5°	3103.1	2916.4	2287.9	1541.3	1004.7	870.5	866.2	879.3	888.0	883.7
3228.5	20°	3186.2	2933.9	2115.9	1238.0	863.3	841.4	851.6	863.3	870.5	863.3
3355.3	22.5°	3302.8	2964.5	1927.7	994.5	818.1	823.9	832.6	845.8	853.0	842.8
3517.2	25°	3445.7	3012.6	1742.6	864.7	796.2	803.5	816.6	831.2	839.9	829.7
3721.3	27.5°	3630.9	3089.9	1571.9	835.5	774.3	778.7	797.6	819.5	831.2	818.1
4011.5	30°	3899.2	3216.8	1424.7	848.7	761.2	751.0	777.2	807.8	821.0	809.3
4406.7	32.5°	4255.0	3396.2	1334.3	869.1	755.3	718.9	743.7	783.1	804.9	797.6
4922.9	35°	4721.7	3668.8	1299.3	892.4	751.0	685.4	702.9	745.1	783.1	790.3
5573.2	37.5°	5287.4	4048.0	1309.5	902.6	737.8	657.6	666.4	702.9	752.4	775.8
6305.3	40°	5930.5	4489.8	1367.8	892.4	723.3	634.3	635.8	663.5	707.2	742.2
7092.7	42.5°	6594.0	5006.0	1475.7	854.5	710.1	613.9	609.5	628.5	657.6	682.4
7878.7	45°	7225.4	5536.8	1582.1	802.0	694.1	593.5	583.3	590.6	596.4	606.6
8644.2	47.5°	7776.6	5910.1	1551.5	753.9	672.2	570.2	552.7	549.7	532.2	530.8
9328.1	50°	8157.2	5991.7	1378.0	705.8	640.2	543.9	516.2	498.7	468.1	453.5
9839.9	52.5°	8278.2	5669.5	1125.7	657.6	587.7	508.9	469.5	441.8	403.9	390.8
10134.5	55°	8117.8	5038.1	899.7	599.3	514.7	462.2	418.5	382.0	351.4	335.4
10166.6	57.5°	7725.6	4234.6	711.6	530.8	437.5	409.8	366.0	329.6	303.3	287.3
9810.8	60°	7075.2	3362.6	562.9	449.1	373.3	352.9	307.7	284.3	261.0	242.1
8892.1	62.5°	6088.0	2400.2	441.8	355.8	312.1	288.7	262.5	245.0	217.3	191.0
7240.0	65°	4750.8	1468.4	341.2	261.0	250.8	239.1	223.1	207.1	173.5	147.3
4723.1	67.5°	2996.6	695.6	243.5	196.9	198.3	192.5	185.2	172.1	147.3	123.9
2115.9	70°	1319.7	336.8	160.4	150.2	147.3	147.3	153.1	148.7	125.4	103.5
734.9	72.5°	449.1	180.8	119.6	113.7	106.4	105.0	128.3	123.9	100.6	80.2
366.0	75°	234.8	121.0	87.5	81.7	64.2	77.3	102.1	96.2	71.5	52.5
242.1	77.5°	153.1	86.0	59.8	52.5	36.5	51.0	75.8	67.1	42.3	26.2
158.9	80°	96.2	56.9	35.0	24.8	17.5	27.7	40.8	29.2	16.0	5.8
93.3	82.5°	51.0	29.2	13.1	8.7	7.3	8.7	10.2	7.3	2.9	0.0
48.1	85°	20.4	10.2	4.4	2.9	1.5	0.0	2.9	1.5	0.0	0.0
8.7	87.5°	7.3	1.5	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>
2884.3
2694.8
2255.8
1681.3
1134.5
918.7
895.3
882.2
861.8
841.4
828.3
818.1
807.8
797.6
790.3
781.6
753.9
692.6
612.4
529.3
455.0
389.3
335.4
284.3
237.7
186.6
142.9
121.0
99.2
75.8
48.1
23.3
4.4
0.0
0.0
0.0
0.0

F REPORT)