

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: P949091

Luminaire Tested: **GALN-SB3D-940-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3D-940-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17042 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

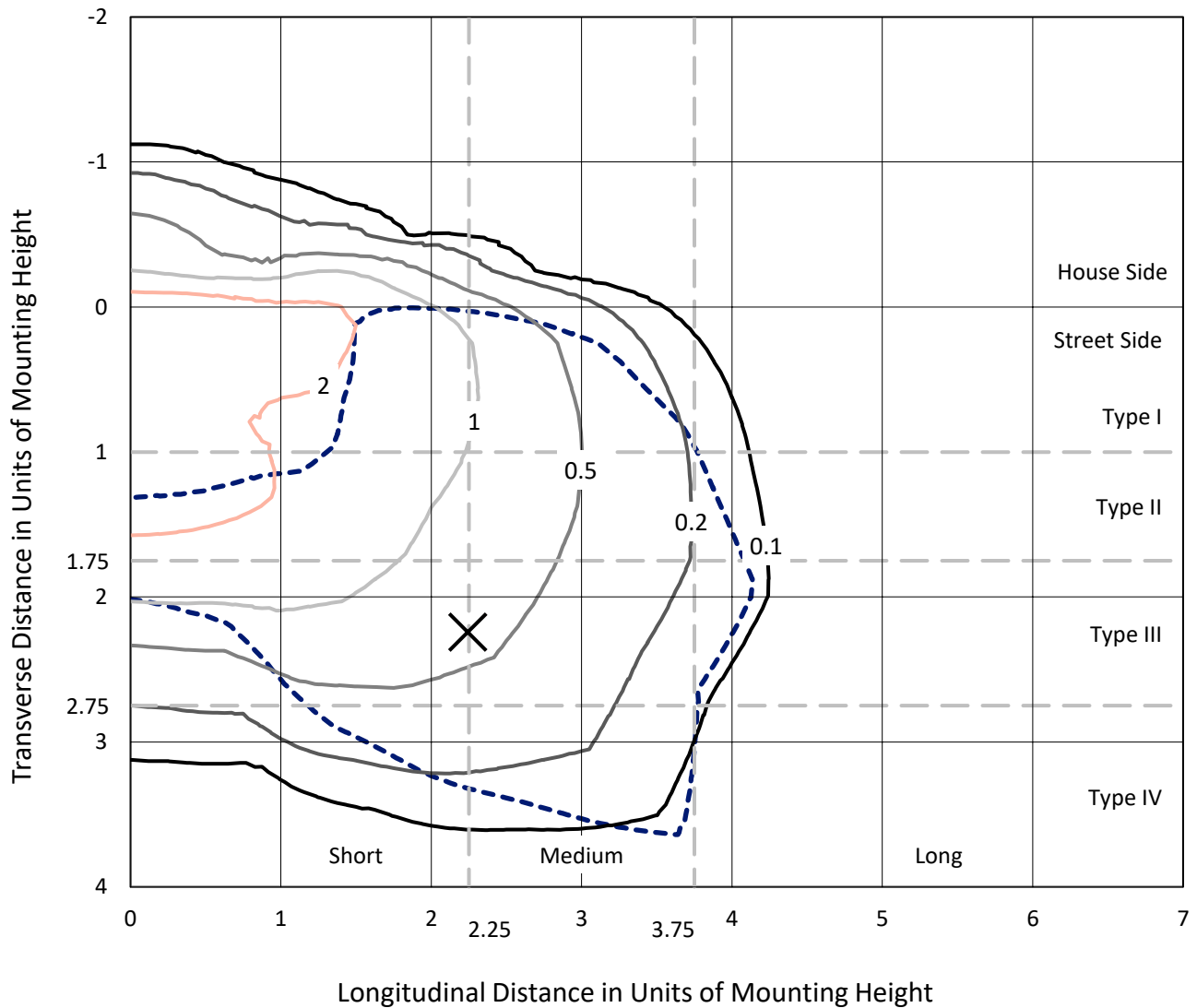
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949091
 CATALOG NUMBER: GALN-SB3D-940-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

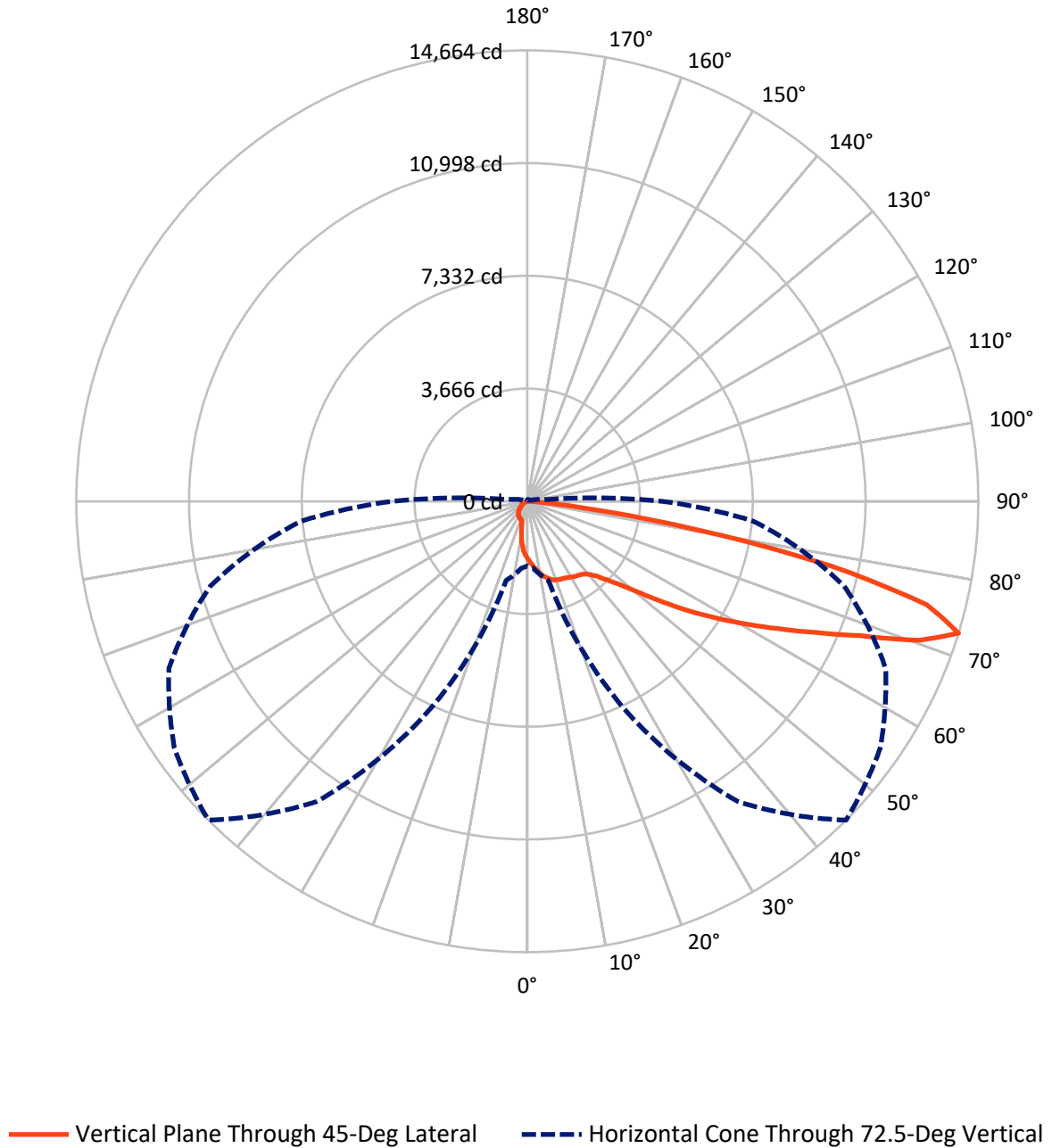
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P949091
CATALOG NUMBER: GALN-SB3D-940-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P949091
 CATALOG NUMBER: GALN-SB3D-940-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1790.6	0.0	1790.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	15251.4	0.0	15251.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	17042.0	0.0	17042.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.9	1.0
10°-20°	514.1	3.0
20°-30°	844.2	5.0
30°-40°	1197.3	7.0
40°-50°	1979.1	11.6
50°-60°	3555.2	20.9
60°-70°	4936.5	29.0
70°-80°	3580.8	21.0
80°-90°	258.9	1.5
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°	17042.0	100.0
0°-180°	17042.0	100.0

Coefficient of Utilization



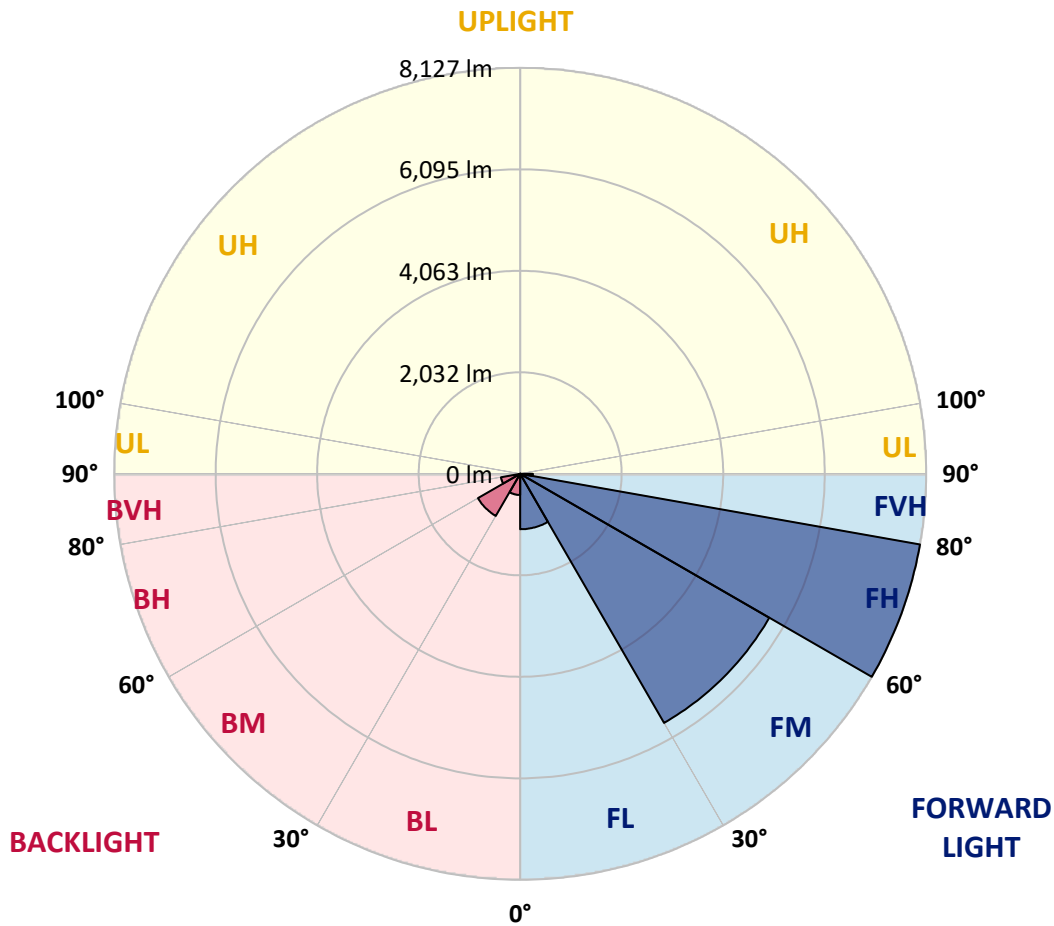
REPORT NUMBER: P949091
 CATALOG NUMBER: GALN-SB3D-940-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1110.1	6.5			
FM (30°-60°)	5757.7	33.8			
FH (60°-80°)	8126.8	47.7			G4/12000
FVH (80°-90°)	256.7	1.5			G3/500
BL (0°-30°)	424.1	2.5	B1/500		
BM (30°-60°)	973.9	5.7	B1/1000		
BH (60°-80°)	390.5	2.3	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short



REPORT NUMBER: P949091
 CATALOG NUMBER: GALN-SB3D-940-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1867.0	1867.0	1867.0	1867.0	1867.0	1867.0	1867.0	1867.0	1867.0	1867.0
2.5°	2039.1	2042.6	2040.3	2026.4	2003.1	1990.3	1983.3	1960.0	1944.9	1918.2
5°	2226.4	2240.4	2232.2	2204.3	2160.1	2128.7	2119.4	2071.7	2028.7	1978.7
7.5°	2425.3	2432.3	2417.2	2381.1	2321.8	2268.3	2260.2	2193.9	2125.2	2048.5
10°	2597.5	2605.6	2582.4	2530.0	2462.6	2396.3	2384.6	2311.3	2229.9	2135.7
12.5°	2741.7	2749.9	2719.6	2656.8	2582.4	2513.7	2502.1	2425.3	2335.8	2231.1
15°	2851.1	2866.2	2825.5	2758.0	2677.8	2609.1	2603.3	2527.7	2440.5	2324.1
17.5°	2915.1	2930.2	2891.8	2810.4	2741.7	2683.6	2676.6	2613.8	2532.4	2420.7
20°	2925.5	2939.5	2898.8	2827.8	2770.8	2724.3	2720.8	2675.4	2616.1	2509.1
22.5°	2894.1	2911.6	2874.3	2817.3	2777.8	2753.4	2748.7	2723.1	2689.4	2598.7
25°	2861.6	2875.5	2847.6	2797.6	2776.6	2774.3	2777.8	2773.1	2766.2	2689.4
27.5°	2859.2	2874.3	2842.9	2795.2	2783.6	2808.0	2811.5	2833.6	2839.4	2772.0
30°	2879.0	2889.5	2859.2	2809.2	2803.4	2859.2	2860.4	2899.9	2909.2	2841.8
32.5°	2922.0	2933.7	2903.4	2830.1	2822.0	2899.9	2903.4	2955.8	2970.9	2916.2
35°	3023.2	3037.2	3002.3	2888.3	2859.2	2938.3	2948.8	3010.4	3040.7	2995.3
37.5°	3275.7	3234.9	3187.3	3005.8	2944.1	2998.8	3016.3	3088.4	3141.9	3089.5
40°	3902.6	3774.7	3625.8	3205.9	3093.0	3127.9	3141.9	3214.0	3287.3	3236.1
42.5°	4843.7	4692.5	4452.9	3666.5	3317.5	3335.0	3345.5	3408.3	3511.8	3471.1
45°	5682.4	5627.7	5383.4	4452.9	3737.5	3651.4	3664.2	3696.8	3849.1	3834.0
47.5°	6326.8	6295.4	6107.0	5355.5	4447.0	4038.7	4074.8	4089.9	4309.8	4363.3
50°	6822.4	6810.7	6642.1	6158.2	5374.1	4609.9	4622.7	4590.1	4919.3	5051.9
52.5°	7290.0	7329.5	7205.1	6903.8	6364.0	5357.8	5355.5	5202.0	5646.3	5846.4
55°	7712.2	7726.2	7739.0	7664.5	7359.8	6209.3	6187.2	5936.0	6489.7	6696.7
57.5°	8108.9	8114.7	8228.7	8381.1	8396.2	7123.6	7082.9	6781.6	7411.0	7558.7
60°	8375.3	8402.0	8642.8	9066.2	9251.2	8067.0	8044.9	7737.8	8348.5	8417.1
62.5°	7991.4	8154.3	8761.5	9601.3	10058.5	9112.8	9102.3	8813.8	9334.9	9279.1
65°	6468.7	6744.4	7812.3	9963.1	10850.6	10280.6	10295.8	9988.7	10348.1	10166.6
67.5°	4525.0	4815.8	6079.1	9992.2	11735.8	11652.1	11739.3	11257.8	11424.1	11017.0
70°	3129.1	3279.2	4101.6	9366.3	12425.6	13541.2	13538.9	12816.5	12494.3	11404.3
72.5°	2104.3	2182.2	2663.8	7430.7	11918.5	14663.7	14596.2	14007.6	12854.9	10665.7
75°	887.5	944.5	1233.0	4176.0	9429.2	13415.6	13232.9	12379.1	11421.8	8398.5
77.5°	281.5	305.9	486.2	1494.8	5193.8	10084.1	9891.0	7730.8	7655.2	4213.2
80°	133.8	155.9	273.4	600.2	2043.8	5484.6	5457.9	3507.1	3293.1	1137.6
82.5°	58.2	68.6	151.2	321.1	914.3	1956.6	1996.1	1193.5	987.6	431.6
85°	18.6	24.4	69.8	147.7	386.2	486.2	480.4	283.8	397.8	235.0
87.5°	0.0	0.0	23.3	33.7	39.5	27.9	31.4	24.4	110.5	65.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949091
 CATALOG NUMBER: GALN-SB3D-940-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1867.0	0°	1867.0	1867.0	1867.0	1867.0	1867.0	1867.0	1867.0	1867.0	1867.0	1867.0
1890.3	2.5°	1876.3	1857.7	1825.1	1794.9	1768.1	1741.4	1725.1	1701.8	1699.5	1699.5
1920.5	5°	1889.1	1858.8	1800.7	1739.0	1668.1	1600.6	1533.1	1468.0	1447.1	1431.9
1969.4	7.5°	1926.3	1878.6	1786.7	1669.2	1534.3	1386.6	1283.0	1171.4	1128.3	1105.1
2034.5	10°	1979.8	1914.7	1775.1	1569.2	1350.5	1149.3	1001.5	880.6	834.0	814.3
2105.4	12.5°	2039.1	1958.9	1754.2	1444.7	1149.3	908.5	764.2	708.4	701.4	701.4
2190.4	15°	2110.1	2012.4	1718.1	1298.2	938.7	718.9	667.7	670.0	677.0	681.7
2273.0	17.5°	2183.4	2069.4	1661.1	1134.2	752.6	646.8	647.9	651.4	657.2	661.9
2362.5	20°	2262.5	2126.4	1585.5	959.7	645.6	625.8	629.3	632.8	637.5	639.8
2446.3	22.5°	2347.4	2179.9	1495.9	788.7	609.5	608.4	609.5	613.0	618.8	618.8
2544.0	25°	2438.1	2239.2	1393.6	664.2	590.9	590.9	593.2	595.6	600.2	600.2
2638.2	27.5°	2531.2	2293.9	1285.4	599.1	574.6	573.5	573.5	577.0	579.3	580.5
2731.3	30°	2633.6	2357.9	1177.2	585.1	561.8	556.0	552.5	554.9	557.2	558.4
2829.0	32.5°	2738.2	2419.5	1080.6	590.9	549.0	538.6	526.9	524.6	524.6	529.3
2930.2	35°	2854.6	2487.0	1006.2	610.7	542.1	513.0	494.4	483.9	485.1	492.0
3051.2	37.5°	2994.2	2568.4	951.5	628.1	537.4	483.9	453.7	440.9	432.7	440.9
3217.5	40°	3176.8	2688.2	912.0	642.1	531.6	450.2	409.5	388.5	373.4	378.1
3475.7	42.5°	3445.5	2876.7	896.9	643.3	518.8	410.6	364.1	336.2	314.1	315.2
3864.3	45°	3822.4	3174.5	974.8	628.1	490.9	367.6	316.4	279.2	265.2	261.7
4444.7	47.5°	4338.9	3608.3	1155.1	596.7	450.2	325.7	269.9	238.5	228.0	222.2
5206.6	50°	5031.0	4165.5	1355.2	561.8	409.5	286.2	231.5	211.7	204.7	198.9
6110.5	52.5°	5833.6	4730.9	1519.2	526.9	368.7	251.3	207.1	195.4	189.6	185.0
6982.9	55°	6569.9	5120.5	1509.9	489.7	329.2	223.3	189.6	182.6	175.6	171.0
7734.3	57.5°	7028.2	5175.2	1244.7	449.0	283.8	201.2	173.3	168.7	160.5	154.7
8384.6	60°	7238.8	4863.5	872.4	395.5	238.5	180.3	155.9	153.5	143.1	134.9
8999.9	62.5°	7277.2	4284.2	581.6	329.2	198.9	160.5	138.4	134.9	121.0	107.0
9500.1	65°	7121.3	3456.0	402.5	257.1	169.8	139.6	118.6	111.7	96.5	82.6
9618.8	67.5°	6628.1	2426.5	280.3	185.0	144.2	110.5	94.2	91.9	80.3	68.6
9013.9	70°	5724.3	1383.1	187.3	138.4	114.0	75.6	74.4	76.8	65.1	55.8
7364.4	72.5°	4388.9	632.8	116.3	101.2	77.9	51.2	59.3	60.5	50.0	41.9
4594.8	75°	2583.5	271.0	73.3	65.1	39.5	33.7	43.0	44.2	33.7	26.8
1679.7	77.5°	879.4	102.4	46.5	38.4	19.8	18.6	27.9	27.9	18.6	10.5
337.3	80°	200.1	38.4	23.3	15.1	9.3	8.1	9.3	8.1	4.7	1.2
103.5	82.5°	57.0	15.1	9.3	5.8	3.5	3.5	1.2	0.0	0.0	0.0
36.1	85°	16.3	7.0	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
12.8	87.5°	7.0	1.2	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>
1867.0
1705.3
1438.9
1108.6
814.3
701.4
681.7
661.9
640.9
621.2
601.4
581.6
560.7
532.8
495.5
438.5
375.7
310.6
257.1
218.7
197.7
183.8
168.7
153.5
132.6
100.0
77.9
65.1
51.2
37.2
23.3
8.1
0.0
0.0
0.0
0.0
0.0

F REPORT)