

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: P949401

Luminaire Tested: **GALN-SB4A-930-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-930-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12738 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

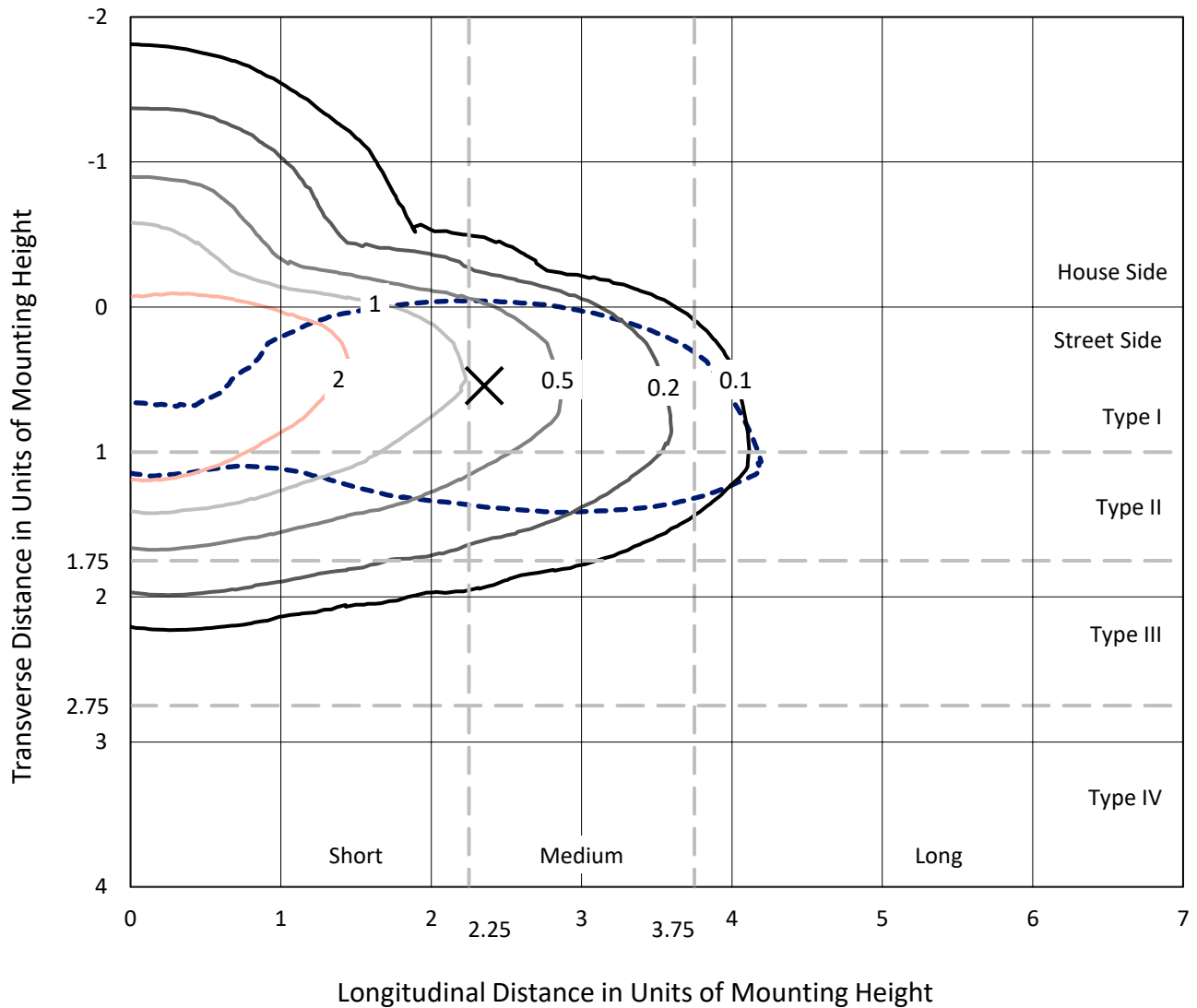
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949401
 CATALOG NUMBER: GALN-SB4A-930-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

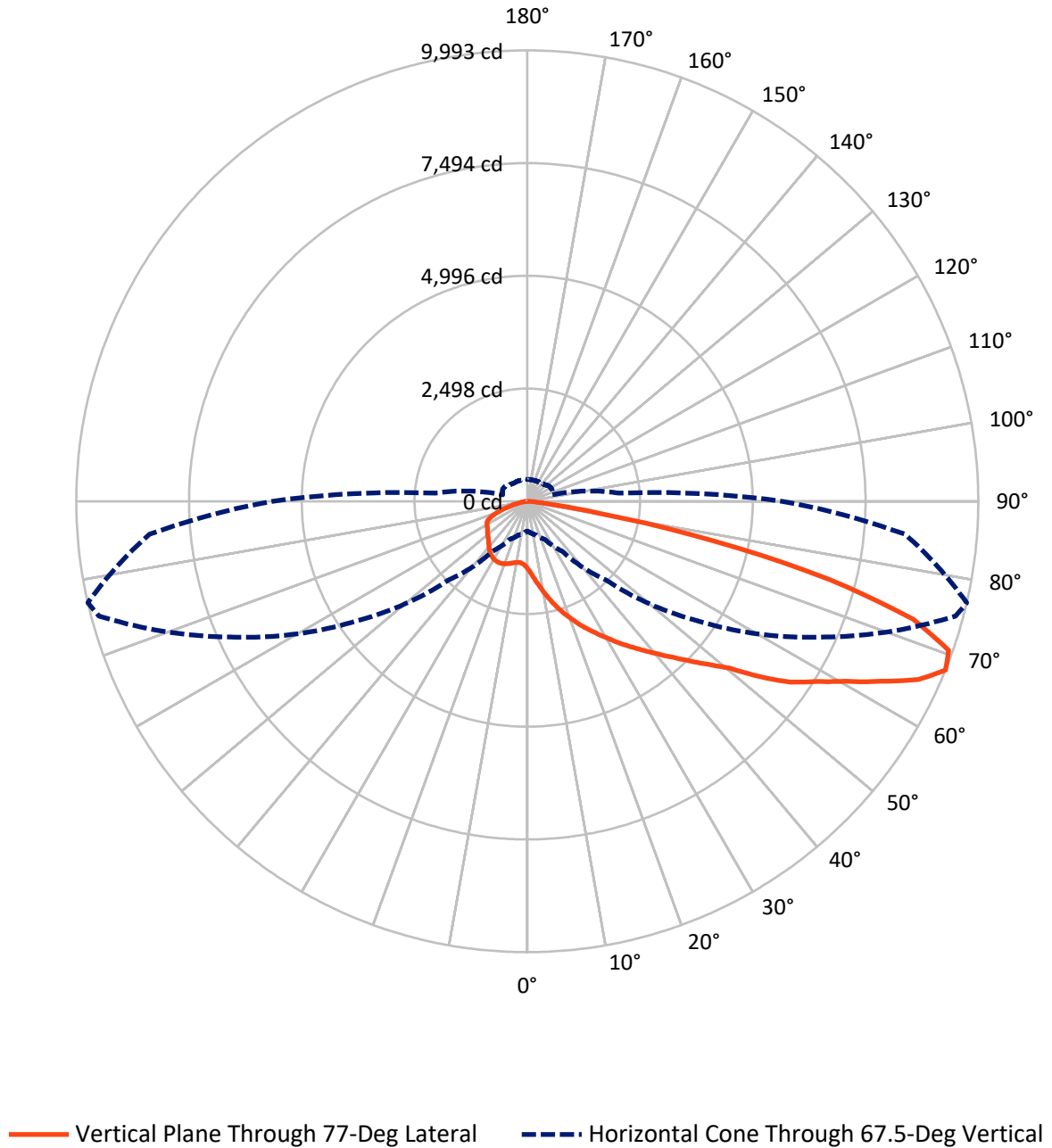
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P949401
CATALOG NUMBER: GALN-SB4A-930-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P949401
 CATALOG NUMBER: GALN-SB4A-930-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2409.5	0.0	2409.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	10328.5	0.0	10328.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	12738.0	0.0	12738.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.2	1.3
10°-20°	575.5	4.5
20°-30°	1086.6	8.5
30°-40°	1750.6	13.7
40°-50°	2394.5	18.8
50°-60°	2701.0	21.2
60°-70°	2521.0	19.8
70°-80°	1381.9	10.8
80°-90°	166.7	1.3
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°	12738.0	100.0
0°-180°	12738.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949401

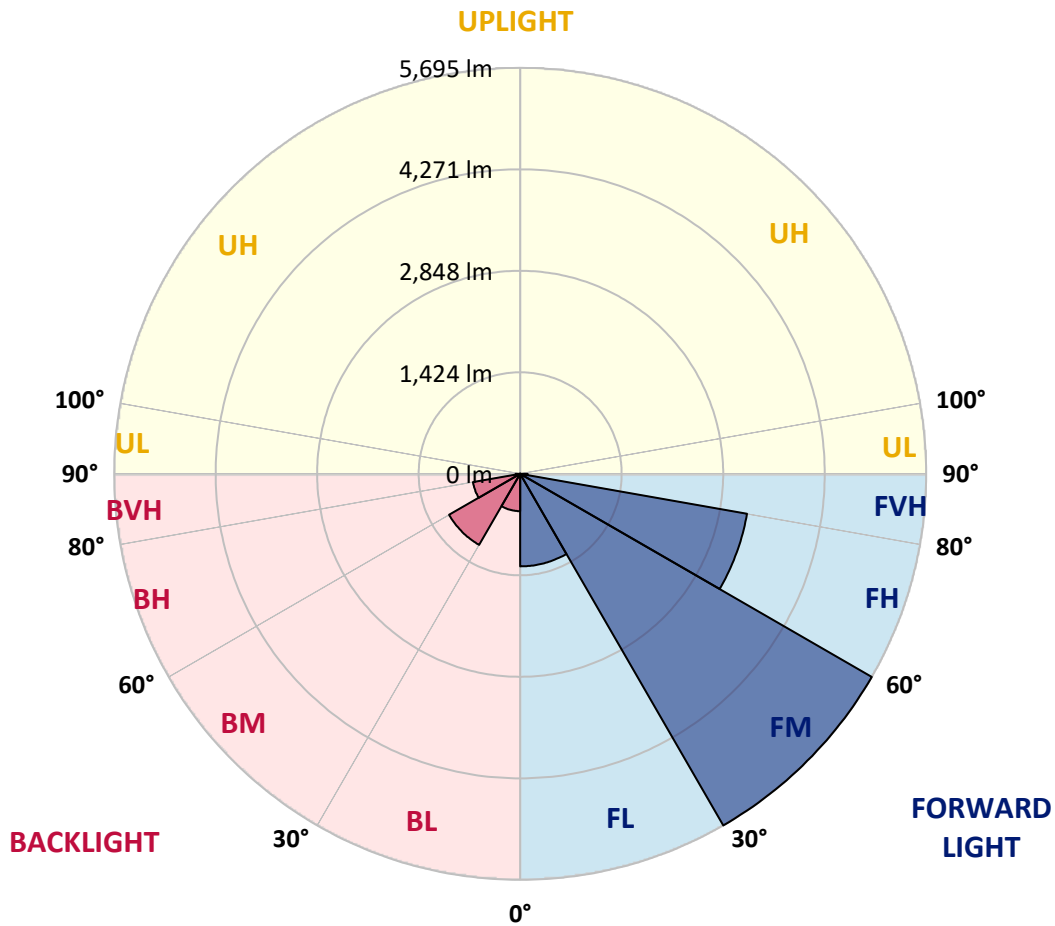
CATALOG NUMBER: GALN-SB4A-930-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1298.5	10.2			
FM (30°-60°)	5695.0	44.7			
FH (60°-80°)	3230.7	25.4			G2/5000
FVH (80°-90°)	104.2	0.8			G2/225
BL (0°-30°)	523.9	4.1	B2/1000		
BM (30°-60°)	1151.0	9.0	B2/2500		
BH (60°-80°)	672.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	62.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



REPORT NUMBER: P949401
 CATALOG NUMBER: GALN-SB4A-930-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6
2.5°	1871.3	1884.5	1868.0	1868.0	1812.8	1783.9	1728.6	1686.6	1610.9	1597.8
5°	2211.9	2228.4	2205.4	2195.5	2130.4	2070.6	1977.8	1886.5	1751.7	1737.8
7.5°	2475.6	2496.6	2476.3	2465.7	2407.9	2340.8	2232.3	2104.7	1914.7	1887.8
10°	2690.6	2693.9	2687.3	2691.3	2645.9	2590.7	2479.5	2330.9	2093.6	2056.8
12.5°	2812.3	2827.4	2840.5	2864.2	2856.3	2822.1	2722.2	2544.6	2282.9	2235.6
15°	2869.5	2895.8	2925.3	2979.9	3024.0	3032.5	2956.2	2774.1	2475.6	2418.4
17.5°	2889.8	2914.8	2961.5	3040.4	3135.1	3198.9	3164.7	2997.0	2666.3	2600.5
20°	2993.1	3000.3	3028.6	3103.5	3206.1	3312.0	3337.6	3211.4	2855.0	2780.7
22.5°	3214.0	3199.5	3207.4	3241.6	3315.3	3417.8	3476.4	3400.7	3049.0	2963.5
25°	3578.9	3536.8	3494.8	3455.3	3492.8	3550.7	3617.1	3590.1	3252.1	3143.6
27.5°	4039.9	3988.6	3895.9	3766.3	3721.0	3741.3	3770.9	3765.7	3440.2	3330.4
30°	4493.6	4433.7	4323.3	4135.9	4016.2	3962.3	3939.9	3924.8	3644.7	3527.6
32.5°	4855.9	4808.5	4700.0	4490.3	4316.7	4224.6	4150.3	4096.4	3858.4	3741.3
35°	5172.8	5128.7	5004.5	4775.6	4586.9	4488.9	4391.6	4276.6	4080.6	3962.3
37.5°	5462.1	5418.0	5247.7	5009.7	4819.7	4752.0	4665.2	4469.9	4303.5	4191.7
40°	5644.9	5635.0	5475.9	5206.3	5009.1	4975.5	4946.6	4694.1	4550.8	4446.9
42.5°	5691.6	5713.3	5587.0	5365.4	5177.4	5150.4	5218.1	4947.9	4828.2	4728.9
45°	5579.1	5641.6	5558.7	5408.2	5297.1	5282.6	5458.8	5225.4	5135.3	5044.6
47.5°	5294.4	5400.3	5366.1	5345.1	5329.3	5391.7	5670.5	5520.0	5483.1	5404.2
50°	4719.7	4920.3	4980.1	5112.9	5265.5	5476.6	5863.2	5841.5	5889.5	5809.9
52.5°	3726.2	4002.4	4349.6	4682.3	5069.5	5448.3	6074.9	6303.1	6505.6	6462.2
55°	3075.9	3200.2	3467.1	4077.3	4689.5	5329.3	6170.3	6675.9	7117.1	7078.3
57.5°	2576.2	2687.3	2851.7	3361.3	4114.8	5059.0	6229.4	6903.4	7535.9	7532.0
60°	2040.3	2158.0	2326.3	2687.3	3443.5	4592.2	6216.3	7162.5	8070.5	8103.4
62.5°	1435.4	1564.9	1751.7	2088.3	2757.7	3987.3	5948.0	7349.9	8699.8	8789.2
65°	943.6	1029.0	1169.7	1460.4	2054.8	3209.4	5435.8	7374.2	9373.1	9524.3
67.5°	661.5	694.4	777.2	935.0	1354.5	2461.1	4619.8	7122.4	9822.2	9992.5
70°	516.2	532.6	574.7	637.8	850.8	1655.0	3540.1	6467.5	9726.2	9903.7
72.5°	445.8	461.6	477.4	485.3	570.7	1021.8	2398.0	5407.5	8822.1	8942.4
75°	404.4	408.3	421.5	418.8	435.3	662.8	1384.1	3939.9	6960.6	6919.2
77.5°	339.9	345.2	366.9	363.6	386.6	453.0	718.7	2542.7	4512.6	4231.2
80°	288.0	290.6	314.3	310.4	336.0	328.1	366.9	1296.0	1914.1	1621.5
82.5°	99.9	123.6	240.0	247.2	256.4	198.6	211.7	528.7	584.5	447.8
85°	48.7	51.9	122.3	173.6	172.9	99.9	103.2	188.7	184.1	144.7
87.5°	7.9	9.9	14.5	67.7	53.9	26.3	35.5	36.8	38.1	32.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949401
 CATALOG NUMBER: GALN-SB4A-930-U-T2R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1494.6	0°	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6	1494.6
1547.8	2.5°	1511.0	1478.1	1409.1	1345.3	1295.3	1247.3	1220.4	1197.4	1184.2	1181.6
1620.2	5°	1551.8	1484.0	1358.5	1252.6	1183.6	1132.3	1105.3	1088.2	1079.7	1074.4
1717.5	7.5°	1610.3	1511.0	1332.2	1211.8	1139.5	1102.7	1088.9	1086.2	1085.6	1086.2
1835.2	10°	1691.2	1555.1	1329.5	1202.0	1141.5	1121.1	1120.4	1121.1	1123.7	1124.4
1963.4	12.5°	1778.6	1600.4	1340.0	1210.5	1166.5	1155.3	1153.3	1152.6	1154.6	1155.9
2092.9	15°	1874.0	1660.3	1357.8	1228.9	1194.1	1182.2	1180.3	1176.3	1175.7	1175.0
2229.0	17.5°	1971.9	1719.4	1377.5	1248.6	1211.8	1195.4	1188.2	1178.9	1171.7	1169.7
2369.7	20°	2071.2	1778.0	1391.3	1258.5	1213.1	1190.1	1175.7	1159.9	1147.4	1140.2
2511.8	22.5°	2177.1	1839.1	1399.9	1255.9	1201.3	1169.7	1143.4	1125.0	1106.0	1093.5
2655.1	25°	2280.3	1892.4	1399.2	1242.1	1178.3	1138.2	1104.6	1081.0	1054.7	1041.5
2803.0	27.5°	2379.6	1940.4	1382.8	1217.7	1145.4	1100.7	1060.6	1032.3	1006.7	994.2
2952.3	30°	2482.2	1980.5	1357.1	1182.2	1106.6	1057.3	1013.3	988.9	965.9	954.1
3110.1	32.5°	2584.1	2017.3	1321.0	1138.2	1061.9	1014.6	971.2	948.8	935.0	935.0
3279.8	35°	2691.9	2042.9	1273.0	1086.9	1014.6	969.2	935.0	921.9	920.5	912.7
3459.3	37.5°	2805.7	2059.4	1214.5	1034.3	967.9	925.1	914.6	898.8	885.7	868.6
3656.5	40°	2925.3	2075.8	1144.1	979.7	918.6	894.9	890.3	869.3	831.8	789.7
3880.1	42.5°	3070.7	2087.0	1071.1	925.1	866.6	858.7	865.3	829.1	769.3	737.7
4149.7	45°	3239.0	2105.4	1004.0	871.2	813.4	813.4	841.0	793.6	744.3	724.6
4457.4	47.5°	3457.3	2148.1	941.6	812.0	764.0	777.2	787.1	750.9	723.3	699.0
4832.2	50°	3772.9	2250.7	877.1	752.2	726.6	752.9	739.1	718.0	685.8	666.1
5427.9	52.5°	4164.8	2311.2	819.9	698.3	694.4	720.7	700.9	681.2	656.9	630.6
5879.6	55°	4431.7	2322.4	771.9	658.8	672.7	670.0	662.8	645.0	631.9	597.0
6325.4	57.5°	4730.3	2344.7	732.5	635.2	658.8	629.9	627.3	612.2	595.1	571.4
6869.2	60°	5087.3	2379.6	698.3	626.0	647.0	603.6	590.5	584.5	567.4	555.6
7523.4	62.5°	5476.6	2411.2	663.4	627.3	633.2	578.0	558.2	556.3	545.7	541.8
8137.6	65°	5742.2	2325.0	620.0	626.0	611.5	551.7	526.7	526.0	517.5	516.2
8403.9	67.5°	5649.5	2052.1	561.5	607.6	589.1	525.4	497.7	495.1	483.9	484.6
8125.7	70°	5185.3	1662.9	480.7	562.2	561.5	501.7	467.5	459.0	443.8	446.5
7065.1	72.5°	4314.7	1232.2	372.2	486.6	517.5	480.0	432.7	418.8	399.8	402.4
5215.5	75°	3116.0	837.7	270.9	370.2	450.4	454.4	398.5	374.8	351.8	355.7
2903.0	77.5°	1594.5	474.7	199.2	255.1	353.8	412.9	367.6	336.0	330.7	367.6
837.0	80°	520.1	238.0	138.1	178.8	232.1	338.0	322.2	286.0	284.7	293.3
175.6	82.5°	155.2	100.6	88.8	117.7	128.2	259.1	278.1	216.3	186.1	195.9
58.5	85°	53.3	48.7	50.6	58.5	61.2	151.9	194.6	143.3	135.5	149.3
13.2	87.5°	12.5	17.1	14.5	13.2	13.2	36.8	75.6	59.8	82.8	55.2
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>
1494.6
1181.6
1073.7
1088.2
1125.0
1156.6
1174.3
1171.7
1142.8
1094.1
1041.5
993.5
953.4
935.7
910.7
866.0
783.8
738.4
727.9
698.3
664.1
625.3
597.7
563.5
558.9
541.8
515.5
484.6
449.1
401.8
357.0
362.3
251.8
202.5
147.3
53.3
0.0

F REPORT)