

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: P950702

Luminaire Tested: **GALN-SB5A-827-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950702
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16683 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

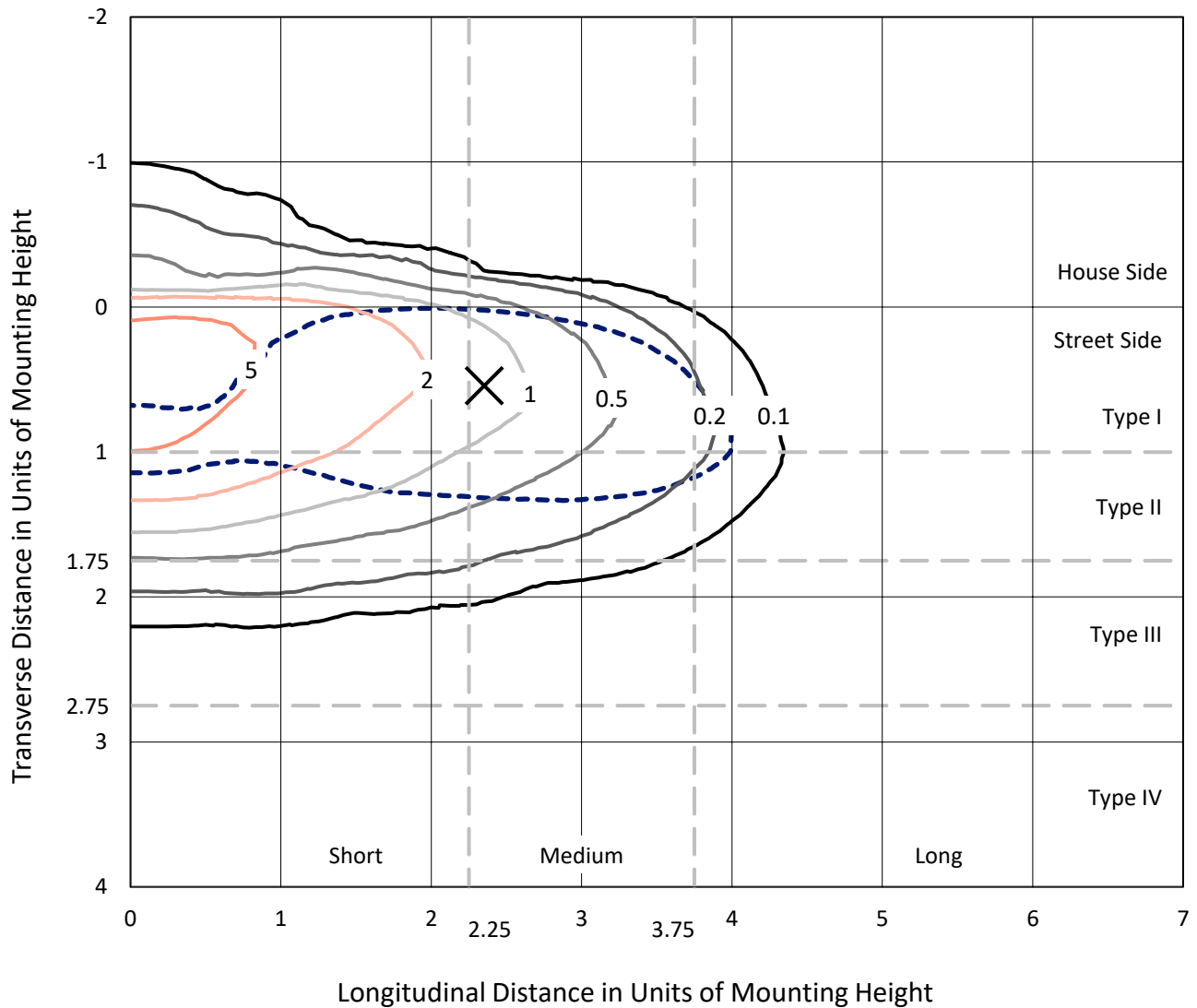
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950702
 CATALOG NUMBER: GALN-SB5A-827-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

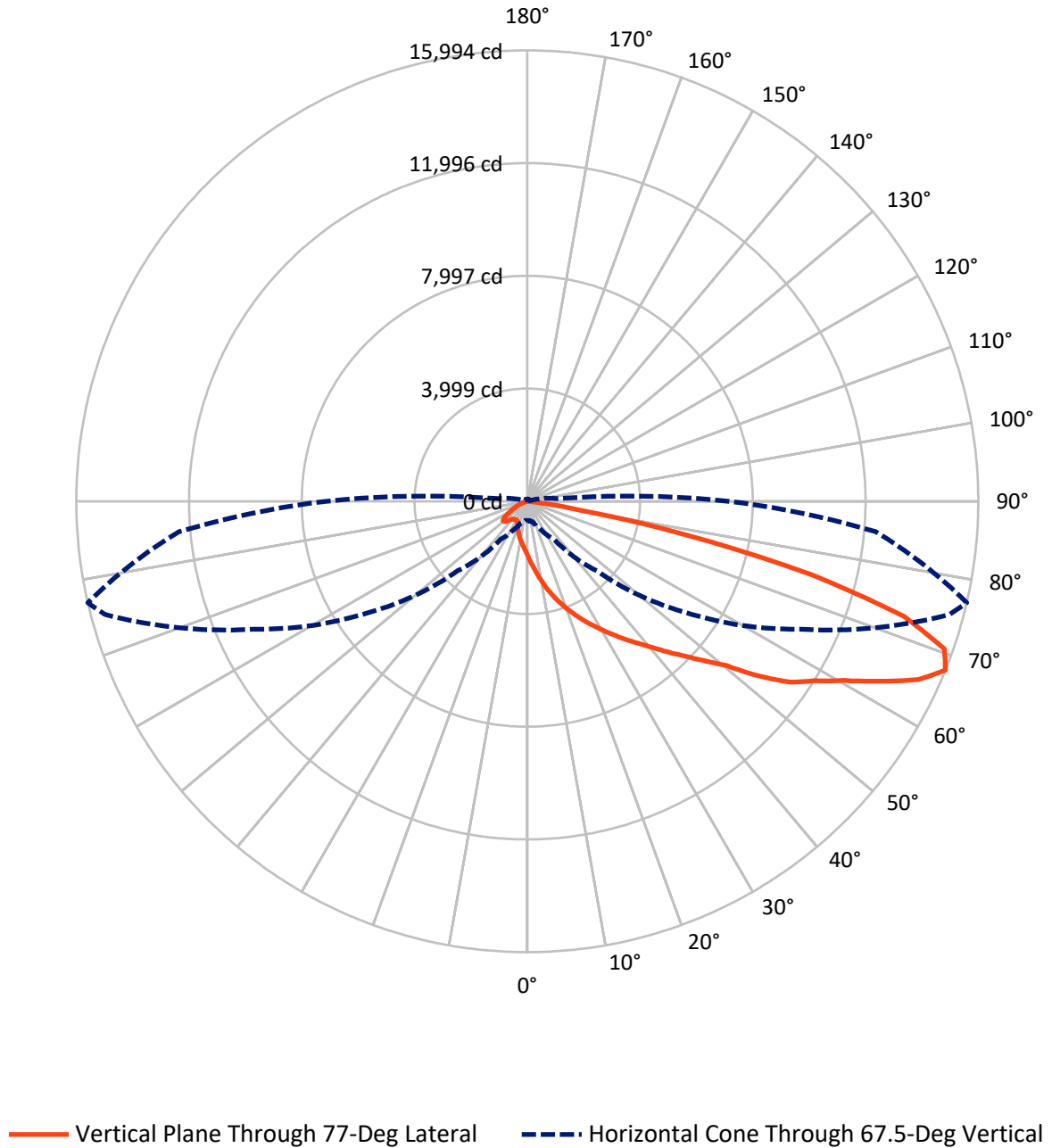
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P950702
CATALOG NUMBER: GALN-SB5A-827-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P950702
 CATALOG NUMBER: GALN-SB5A-827-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1227.4	0.0	1227.4
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	15455.6	0.0	15455.6
	% Fixture	92.6	0.0	92.6
Total	Lumens	16683.0	0.0	16683.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.4	1.2
10°-20°	687.6	4.1
20°-30°	1326.9	8.0
30°-40°	2303.6	13.8
40°-50°	3344.7	20.0
50°-60°	3840.9	23.0
60°-70°	3334.6	20.0
70°-80°	1570.7	9.4
80°-90°	77.7	0.5
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°	16683.0	100.0
0°-180°	16683.0	100.0

Coefficient of Utilization



REPORT NUMBER: P950702

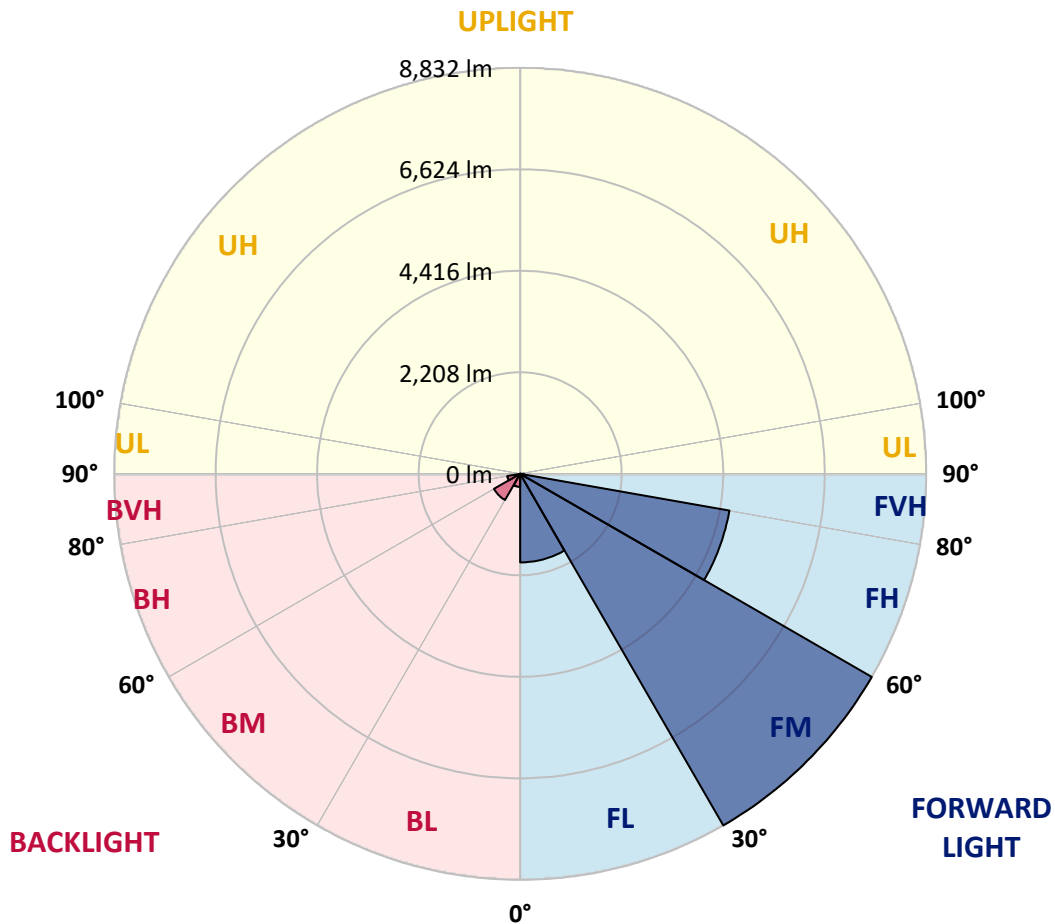
CATALOG NUMBER: GALN-SB5A-827-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1926.7	11.5			
FM (30°-60°)	8831.5	52.9			
FH (60°-80°)	4621.1	27.7			G2/5000
FVH (80°-90°)	76.2	0.5			G1/100
BL (0°-30°)	284.2	1.7	B1/500		
BM (30°-60°)	657.6	3.9	B1/1000		
BH (60°-80°)	284.1	1.7	B1/500		G1/500
BVH (80°-90°)	1.4	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-G2

Type II Medium



REPORT NUMBER: P950702
 CATALOG NUMBER: GALN-SB5A-827-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8
2.5°	2663.5	2680.1	2656.2	2610.6	2542.3	2497.7	2388.9	2286.4	2172.4	2136.2
5°	3246.7	3261.2	3234.3	3184.6	3093.4	3006.4	2863.4	2649.0	2426.2	2354.8
7.5°	3678.7	3687.0	3676.7	3631.1	3544.1	3445.6	3286.1	3032.3	2701.8	2623.1
10°	3989.5	4016.5	4013.3	3995.7	3937.7	3857.9	3688.1	3399.0	3010.5	2909.0
12.5°	4195.7	4225.7	4243.3	4282.7	4279.6	4228.8	4079.6	3774.0	3318.2	3199.1
15°	4255.8	4287.9	4355.2	4446.4	4527.2	4553.1	4448.5	4141.8	3657.0	3504.7
17.5°	4221.6	4271.3	4352.1	4496.1	4673.3	4790.3	4778.9	4497.1	3964.7	3790.6
20°	4297.2	4344.9	4408.0	4529.3	4735.4	4947.8	5032.7	4836.9	4270.3	4087.9
22.5°	4715.7	4707.4	4713.7	4733.3	4856.6	5066.9	5242.0	5145.7	4572.8	4386.3
25°	5378.8	5341.5	5278.3	5171.6	5140.5	5242.0	5424.3	5419.2	4891.8	4691.9
27.5°	6139.2	6132.9	5984.8	5727.9	5582.8	5543.5	5630.5	5685.4	5207.8	4994.4
30°	6867.4	6884.0	6684.1	6398.1	6131.9	5977.5	5898.8	5938.2	5529.0	5320.7
32.5°	7501.5	7519.1	7301.5	6966.9	6637.5	6451.0	6285.2	6187.8	5879.1	5652.2
35°	8037.1	8054.7	7805.0	7435.2	7084.0	6915.1	6727.6	6461.3	6231.4	6020.0
37.5°	8515.7	8510.5	8175.9	7802.9	7457.9	7324.3	7225.9	6798.0	6593.9	6389.9
40°	8798.5	8820.2	8534.3	8123.0	7788.4	7691.0	7684.8	7215.5	7012.5	6814.6
42.5°	8881.4	8919.7	8712.5	8374.8	8071.2	7965.6	8128.2	7667.2	7499.4	7306.7
45°	8732.2	8769.5	8675.2	8441.1	8263.9	8195.6	8509.5	8135.5	8019.4	7828.8
47.5°	8297.1	8343.7	8366.5	8316.8	8314.7	8384.1	8851.3	8628.6	8636.9	8442.1
50°	7454.8	7533.6	7742.8	7918.9	8191.4	8533.3	9183.9	9163.1	9333.0	9165.2
52.5°	5923.7	6035.6	6756.6	7238.3	7850.6	8505.3	9549.6	10020.9	10554.5	10308.9
55°	4760.3	4760.3	5346.6	6247.9	7185.5	8320.9	9709.1	10578.3	11386.3	11328.3
57.5°	3880.7	3927.4	4301.3	5098.0	6223.1	7881.7	9807.5	10928.4	12056.6	12014.1
60°	2395.2	2495.7	3202.2	3988.5	5128.0	7099.5	9745.4	11282.7	12869.8	12904.0
62.5°	1348.8	1386.1	1701.1	2869.6	3987.4	6048.0	9269.9	11480.6	13910.0	14055.0
65°	931.3	950.0	1071.2	1786.0	2764.0	4815.2	8340.6	11357.3	14952.1	15245.3
67.5°	676.5	685.8	761.4	1090.9	1639.9	3491.2	6884.0	10735.8	15504.3	15994.3
70°	520.1	526.3	581.2	716.9	968.6	2154.8	4999.6	9499.8	15104.4	15689.8
72.5°	422.7	428.9	471.4	530.4	642.3	1274.2	3030.2	7714.9	13339.1	13971.1
75°	356.4	364.7	403.0	441.3	503.5	818.4	1421.3	5372.5	10031.3	10445.7
77.5°	197.9	182.3	327.4	365.7	424.7	518.0	665.1	3161.8	5618.1	5733.1
80°	123.3	127.4	260.0	294.2	326.3	261.1	304.6	1217.3	1947.6	1850.2
82.5°	7.3	16.6	199.9	212.4	223.8	111.9	115.0	413.4	469.3	431.0
85°	0.0	0.0	91.2	73.6	77.7	32.1	33.2	96.3	63.2	68.4
87.5°	0.0	0.0	0.0	2.1	0.0	3.1	6.2	8.3	3.1	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950702
 CATALOG NUMBER: GALN-SB5A-827-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1923.8	0°	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8	1923.8
2022.2	2.5°	1949.7	1877.2	1730.1	1586.1	1469.0	1360.2	1282.5	1209.0	1171.7	1169.6
2152.7	5°	2008.7	1856.5	1562.2	1302.2	1092.9	925.1	816.3	738.6	699.3	685.8
2313.3	7.5°	2091.6	1862.7	1415.1	1053.6	807.0	663.0	600.9	576.0	567.7	558.4
2494.6	10°	2196.3	1877.2	1283.6	848.5	636.1	563.6	538.7	528.3	522.1	515.9
2698.7	12.5°	2313.3	1890.6	1153.0	704.5	559.4	522.1	504.5	492.1	483.8	476.5
2908.0	15°	2427.3	1898.9	1017.3	604.0	520.1	490.0	471.4	457.9	446.5	438.2
3113.1	17.5°	2540.2	1910.3	889.9	543.9	487.9	457.9	439.3	422.7	413.4	404.0
3328.6	20°	2665.5	1908.3	769.7	501.4	455.8	425.8	406.1	390.6	381.2	370.9
3556.5	22.5°	2781.6	1897.9	664.1	465.2	422.7	393.7	371.9	356.4	347.0	338.8
3789.6	25°	2915.2	1889.6	576.0	432.0	391.6	362.6	338.8	324.3	313.9	306.6
4023.7	27.5°	3043.7	1877.2	511.8	402.0	361.6	333.6	310.8	294.2	284.9	279.7
4265.1	30°	3170.1	1874.1	487.9	372.9	334.6	306.6	283.9	268.3	261.1	259.0
4530.3	32.5°	3322.4	1882.4	498.3	362.6	309.8	281.8	260.0	248.6	241.4	241.4
4825.5	35°	3485.0	1880.3	513.8	371.9	293.2	256.9	240.3	233.1	225.8	225.8
5152.9	37.5°	3689.1	1883.4	526.3	387.5	287.0	236.2	226.9	217.6	213.4	213.4
5511.4	40°	3993.7	1986.0	520.1	400.9	284.9	221.7	203.0	199.9	196.8	196.8
5916.4	42.5°	4366.6	2208.7	528.3	402.0	283.9	211.3	186.5	192.7	185.4	184.4
6373.3	45°	4774.8	2452.1	581.2	380.2	282.8	206.2	178.2	185.4	174.0	174.0
6902.7	47.5°	5179.8	2693.5	635.0	349.1	279.7	205.1	170.9	166.8	163.7	164.7
7592.6	50°	5738.2	2890.4	655.8	306.6	272.5	203.0	157.5	158.5	156.4	158.5
8565.4	52.5°	6346.3	2931.8	630.9	259.0	251.7	196.8	148.1	152.3	151.3	153.3
9250.2	55°	6725.5	2887.2	521.1	215.5	219.6	172.0	138.8	147.1	147.1	147.1
9919.4	57.5°	7117.1	2697.7	369.8	175.1	182.3	140.9	130.5	141.9	140.9	139.9
10725.4	60°	7398.9	2391.0	243.5	144.0	145.0	116.0	121.2	133.6	132.6	127.4
11556.2	62.5°	7609.2	2052.3	156.4	122.2	110.8	104.6	110.8	121.2	117.1	105.7
12260.7	65°	7585.4	1583.0	120.2	104.6	91.2	91.2	96.3	105.7	93.2	74.6
12395.4	67.5°	7143.0	1071.2	99.5	88.1	76.7	75.6	79.8	88.1	79.8	63.2
11705.4	70°	6352.6	700.3	79.8	68.4	61.1	55.9	64.2	75.6	67.3	50.8
9965.0	72.5°	5156.0	426.8	60.1	49.7	44.5	36.3	50.8	62.2	53.9	37.3
6929.6	75°	3335.8	217.6	41.4	32.1	23.8	21.8	37.3	46.6	37.3	22.8
3074.8	77.5°	1276.3	91.2	22.8	14.5	12.4	10.4	20.7	28.0	15.5	5.2
595.7	80°	245.5	38.3	11.4	7.3	6.2	4.1	3.1	2.1	0.0	0.0
105.7	82.5°	42.5	12.4	4.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
20.7	85°	14.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.3	87.5°	5.2	0.0	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

180°
1923.8
1167.5
683.7
556.3
513.8
474.5
437.2
403.0
369.8
337.7
305.6
279.7
258.0
241.4
225.8
213.4
196.8
183.4
174.0
164.7
158.5
153.3
147.1
139.9
127.4
103.6
72.5
61.1
48.7
35.2
19.7
4.1
0.0
0.0
0.0
0.0
0.0

F REPORT)