

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: P955620

Luminaire Tested: **GALN-SB8C-735-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50417 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

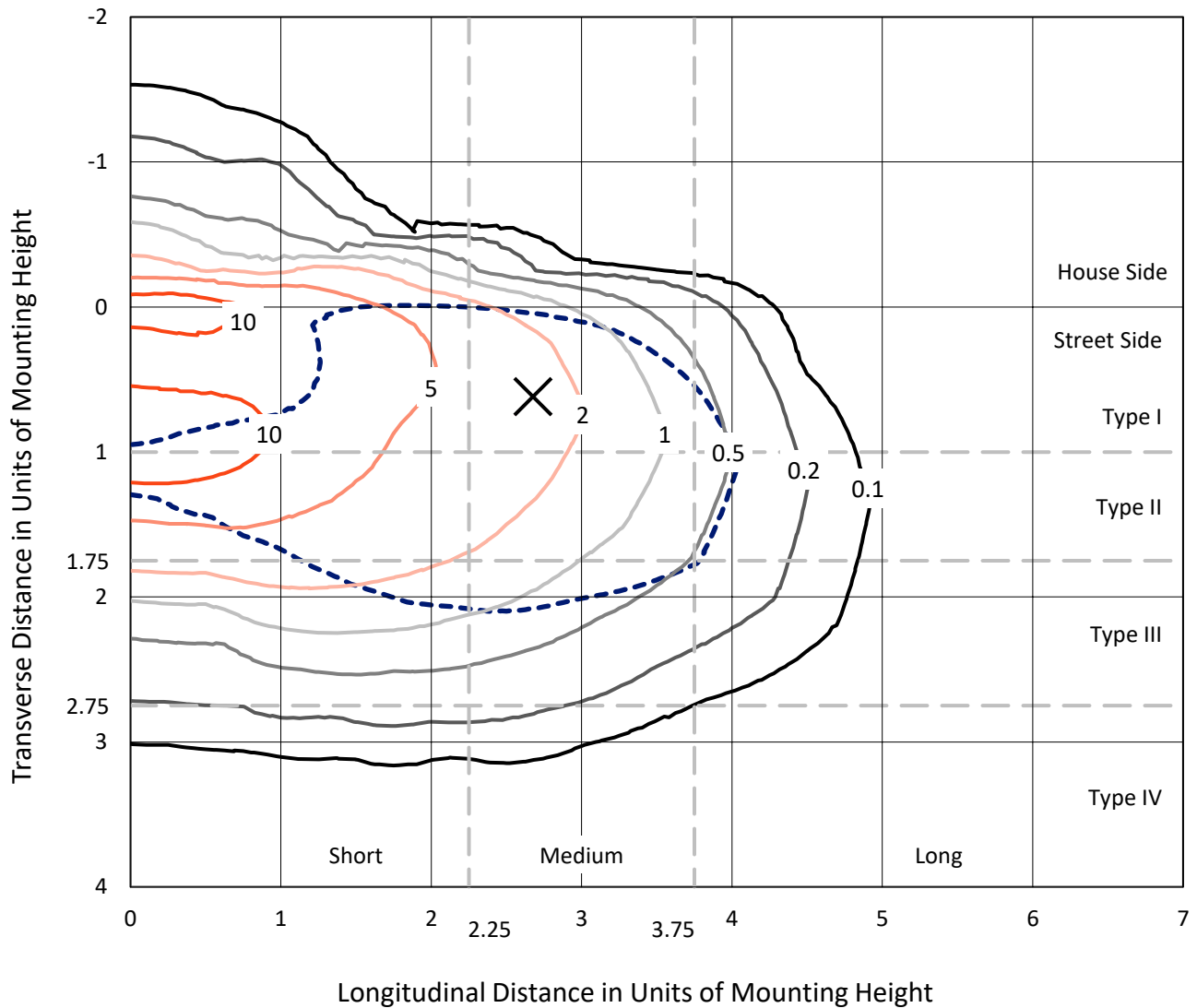
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955620
 CATALOG NUMBER: GALN-SB8C-735-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

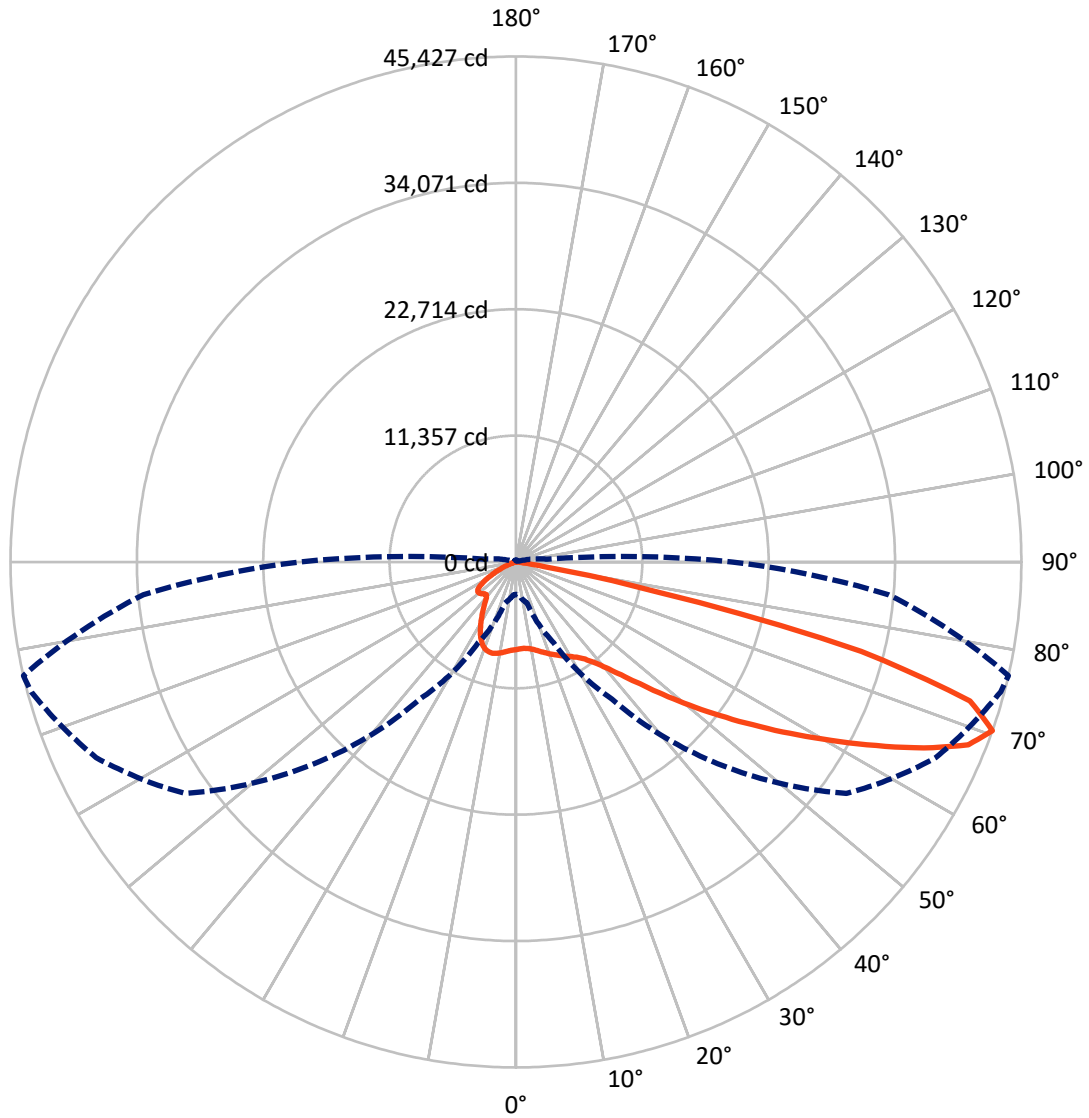
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type III - Medium - N/A

REPORT NUMBER: P955620
CATALOG NUMBER: GALN-SB8C-735-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P955620
 CATALOG NUMBER: GALN-SB8C-735-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5314.7	0.0	5314.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	45102.3	0.0	45102.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	50417.0	0.0	50417.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.8	1.3
10°-20°	1608.9	3.2
20°-30°	2488.6	4.9
30°-40°	4515.7	9.0
40°-50°	8523.8	16.9
50°-60°	12316.2	24.4
60°-70°	13110.3	26.0
70°-80°	6947.6	13.8
80°-90°	228.1	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°	50417.0	100.0
0°-180°	50417.0	100.0

Coefficient of Utilization



REPORT NUMBER: P955620

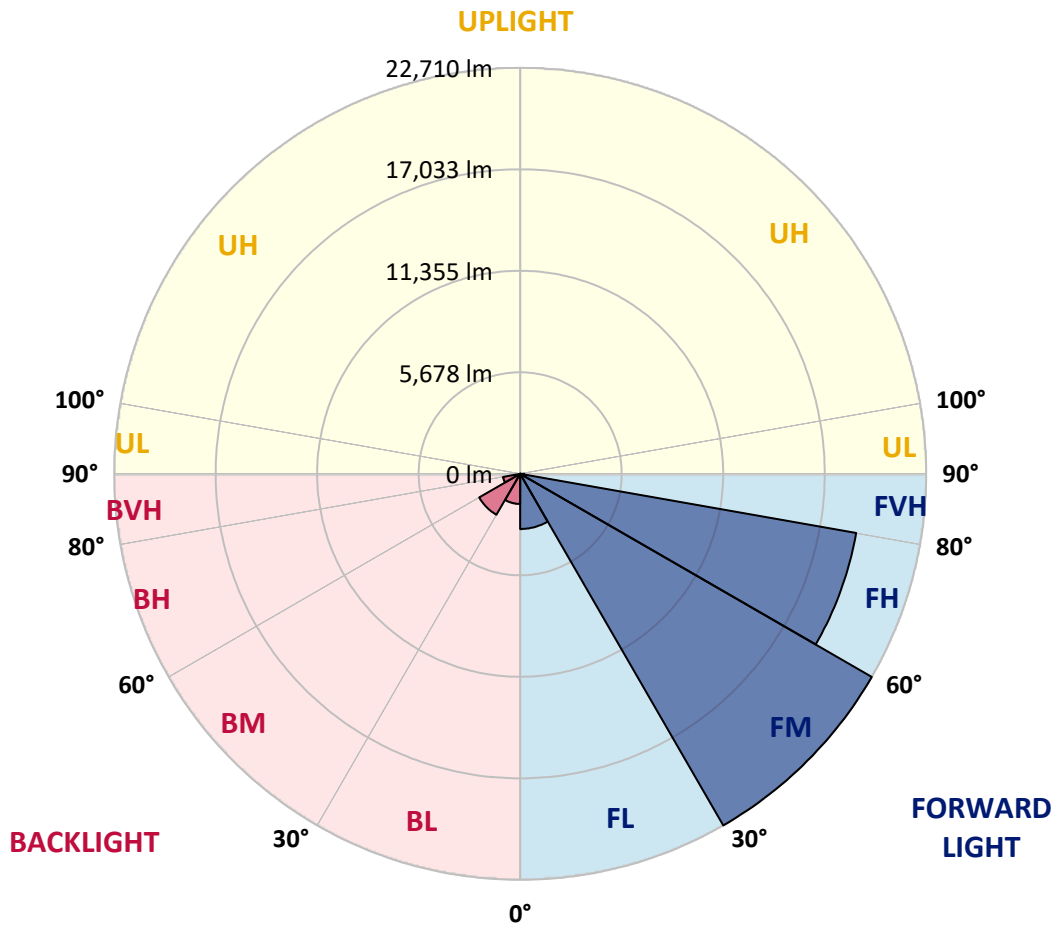
CATALOG NUMBER: GALN-SB8C-735-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3086.7	6.1			
FM (30°-60°)	22710.1	45.0			
FH (60°-80°)	19083.6	37.9			G5
FVH (80°-90°)	222.0	0.4			G2/225
BL (0°-30°)	1688.6	3.3	B3/2500		
BM (30°-60°)	2645.7	5.2	B3/5000		
BH (60°-80°)	974.3	1.9	B2/1000		G2/1000
BVH (80°-90°)	6.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



REPORT NUMBER: P955620
 CATALOG NUMBER: GALN-SB8C-735-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7864.1	7864.1	7864.1	7864.1	7864.1	7864.1	7864.1	7864.1	7864.1	7864.1
2.5°	7383.4	7450.2	7440.7	7485.3	7501.2	7564.9	7628.5	7714.5	7810.0	7806.8
5°	6966.3	7033.2	7049.1	7109.6	7186.0	7284.7	7415.2	7587.1	7765.4	7794.1
7.5°	6472.8	6542.8	6584.2	6705.2	6845.3	7049.1	7262.4	7513.9	7810.0	7851.4
10°	5979.3	6043.0	6097.1	6269.0	6491.9	6794.4	7141.4	7504.4	7902.3	7962.8
12.5°	5673.6	5734.1	5794.6	5944.3	6221.3	6590.6	7061.8	7548.9	8055.2	8141.1
15°	5565.4	5619.5	5667.3	5801.0	6058.9	6479.2	7045.9	7641.3	8249.4	8364.0
17.5°	5581.3	5610.0	5641.8	5743.7	5995.2	6428.2	7074.5	7800.5	8478.6	8580.5
20°	5673.6	5689.6	5692.7	5762.8	5985.7	6421.9	7131.9	7953.3	8695.1	8832.0
22.5°	5791.4	5797.8	5791.4	5839.2	6046.2	6469.6	7208.3	8138.0	8937.1	9064.5
25°	6342.3	6221.3	6068.4	5976.1	6148.0	6561.9	7322.9	8386.3	9201.4	9325.5
27.5°	8052.0	7704.9	7157.3	6542.8	6358.2	6695.7	7482.1	8637.8	9468.8	9580.2
30°	10828.3	10373.0	9443.3	8058.4	7033.2	6975.8	7689.0	8889.3	9752.2	9873.2
32.5°	13611.0	13499.6	12426.6	10509.9	8551.9	7599.9	8032.9	9230.0	10127.9	10223.4
35°	16425.5	16199.5	15320.7	13426.3	10892.0	8870.2	8606.0	9675.8	10621.4	10729.6
37.5°	18581.0	18444.1	17899.7	16339.6	13668.3	10831.5	9586.6	10366.7	11337.7	11458.7
40°	20485.0	20421.3	20236.6	19208.2	16772.6	13397.7	11111.7	11436.4	12331.1	12474.4
42.5°	21981.4	22131.0	22236.1	21949.6	19972.4	16326.8	13162.1	12939.2	13716.1	13862.5
45°	23512.8	23563.8	23987.2	24401.1	23149.9	19389.7	15473.6	14699.9	15438.6	15620.0
47.5°	24496.6	24700.4	25445.4	26174.5	25821.1	22427.1	17957.0	16779.0	17434.8	17775.5
50°	24569.9	24955.1	25980.3	27250.7	27766.5	25318.1	20656.9	19147.8	19845.0	20220.7
52.5°	23350.5	23949.0	25537.8	27397.1	28817.1	27766.5	23449.2	21516.5	22411.2	22901.5
55°	17902.9	18686.1	23872.6	26601.2	28858.5	29622.7	26168.2	23984.0	25270.3	25824.3
57.5°	15597.7	15992.5	18768.9	25219.4	28091.2	30370.9	28626.1	26333.7	28381.0	29068.7
60°	12977.4	13496.4	15741.0	22958.8	27050.1	30444.1	30797.5	29364.8	31752.7	32526.3
62.5°	8819.3	9382.8	11614.7	19074.5	25626.9	30409.1	32577.3	32485.0	35500.1	36331.1
65°	5463.5	5816.9	7287.9	15575.5	23637.0	30447.3	34439.8	36273.8	39454.4	40298.2
67.5°	4317.3	4479.7	5247.0	11958.6	20208.0	29587.6	36299.2	39836.5	43176.4	43845.0
70°	2900.5	2999.2	3817.5	8017.0	15034.2	25620.5	36264.2	41625.8	45093.1	45427.4
72.5°	1528.3	1604.7	2231.9	3712.4	9080.4	18211.7	30568.3	39486.3	43185.9	42682.9
75°	764.1	891.5	1502.8	1884.8	3877.9	10156.5	18982.2	31131.8	33990.9	32042.4
77.5°	579.5	700.4	1241.7	1241.7	1350.0	3419.5	8039.3	16979.5	15661.4	13041.1
80°	369.3	477.6	1085.7	939.2	563.5	869.2	2095.0	4756.7	3327.1	2531.2
82.5°	216.5	312.0	904.2	620.9	315.2	321.6	592.2	1012.5	862.8	671.8
85°	86.0	203.8	620.9	245.2	124.2	79.6	178.3	216.5	178.3	133.7
87.5°	0.0	47.8	108.3	0.0	9.6	6.4	12.7	15.9	15.9	12.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955620
 CATALOG NUMBER: GALN-SB8C-735-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7864.1	0°	7864.1	7864.1	7864.1	7864.1	7864.1	7864.1	7864.1	7864.1	7864.1	7864.1
7870.5	2.5°	7899.2	7905.5	7924.6	7927.8	7883.2	7825.9	7803.6	7794.1	7755.9	7752.7
7921.5	5°	7994.7	8023.3	7994.7	7911.9	7714.5	7437.5	7227.4	7055.4	6899.4	6851.7
8096.6	7.5°	8185.7	8214.4	8128.4	7803.6	7307.0	6756.2	6259.5	5909.2	5594.0	5476.2
8309.9	10°	8459.5	8497.7	8227.1	7571.2	6692.5	5807.4	4966.8	4374.6	3913.0	3725.1
8599.6	12.5°	8803.4	8819.3	8281.2	7217.8	5893.3	4629.3	3438.6	2805.0	2394.3	2241.4
8949.8	15°	9182.3	9160.0	8287.6	6737.1	4804.4	3273.0	2244.6	1843.5	1677.9	1627.0
9300.1	17.5°	9580.2	9487.9	8160.2	6043.0	3610.5	2238.3	1665.2	1569.6	1541.0	1528.3
9647.1	20°	9971.9	9764.9	7927.8	5135.6	2591.7	1671.5	1512.3	1483.7	1467.8	1461.4
9997.3	22.5°	10328.5	9975.0	7529.8	4081.7	1881.7	1477.3	1429.6	1404.1	1375.4	1362.7
10338.0	25°	10675.5	10096.0	6969.5	3097.9	1506.0	1381.8	1343.6	1295.8	1257.6	1241.7
10704.1	27.5°	11013.0	10172.4	6269.0	2292.4	1343.6	1292.6	1222.6	1155.7	1127.1	1120.7
11095.8	30°	11372.8	10197.9	5473.1	1709.7	1244.9	1181.2	1079.3	1002.9	987.0	990.2
11624.3	32.5°	11812.1	10236.1	4670.7	1400.9	1162.1	1047.5	926.5	846.9	834.2	846.9
12394.8	35°	12337.5	10312.5	3897.0	1289.5	1088.9	910.6	780.0	713.2	700.4	710.0
13381.8	37.5°	13050.7	10436.7	3174.3	1267.2	1028.4	796.0	655.9	601.8	601.8	604.9
14591.6	40°	13999.4	10767.8	2528.0	1251.3	996.5	710.0	554.0	531.7	541.3	547.6
16132.6	42.5°	15155.2	11471.5	2091.8	1232.2	961.5	671.8	503.1	493.5	509.4	515.8
17979.3	45°	16451.0	12362.9	1939.0	1200.3	929.7	697.3	480.8	468.0	487.1	490.3
20048.8	47.5°	17791.4	13235.3	1919.9	1165.3	897.8	735.5	474.4	445.7	468.0	471.2
22258.4	50°	19147.8	13805.2	1939.0	1111.2	846.9	735.5	477.6	423.5	442.6	452.1
24550.8	52.5°	20513.6	14066.3	1926.2	993.4	757.8	690.9	477.6	404.4	423.5	429.8
27027.8	55°	21838.1	14015.4	1732.0	818.3	643.1	611.3	464.8	388.4	401.2	404.4
29368.0	57.5°	22885.6	13305.4	1372.2	636.8	522.2	509.4	423.5	369.3	378.9	375.7
31513.9	60°	23433.2	11745.3	980.6	490.3	410.7	401.2	372.5	343.9	350.2	334.3
33331.9	62.5°	23439.6	9682.1	655.9	388.4	327.9	318.4	318.4	308.8	302.5	270.6
34739.1	65°	22939.7	7392.9	436.2	308.8	264.3	248.3	267.4	264.3	242.0	197.4
35168.9	67.5°	21806.3	4845.8	331.1	242.0	203.8	194.2	213.3	222.9	207.0	165.6
33602.5	70°	19475.7	2820.9	273.8	187.8	152.8	143.3	171.9	191.0	171.9	133.7
28721.6	72.5°	16177.2	1521.9	222.9	140.1	105.1	95.5	136.9	156.0	136.9	98.7
18428.2	75°	10497.2	815.1	171.9	92.3	54.1	60.5	101.9	114.6	95.5	63.7
5409.4	77.5°	3524.5	359.8	108.3	44.6	25.5	25.5	60.5	70.0	44.6	22.3
983.8	80°	786.4	149.6	44.6	19.1	9.6	9.6	12.7	12.7	6.4	0.0
302.5	82.5°	257.9	60.5	19.1	6.4	0.0	0.0	0.0	0.0	0.0	0.0
76.4	85°	98.7	22.3	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25.5	87.5°	38.2	3.2	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>
7864.1
7759.1
6823.0
5428.5
3645.5
2193.7
1627.0
1525.1
1455.0
1359.5
1235.3
1114.4
990.2
843.7
706.8
601.8
547.6
515.8
493.5
474.4
455.3
429.8
404.4
375.7
331.1
261.1
191.0
162.4
127.4
95.5
57.3
19.1
0.0
0.0
0.0
0.0
0.0

F REPORT)