

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: P956439

Luminaire Tested: **GALN-SB9A-830-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956439
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-SB9A-830-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 350mA 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: 30565 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

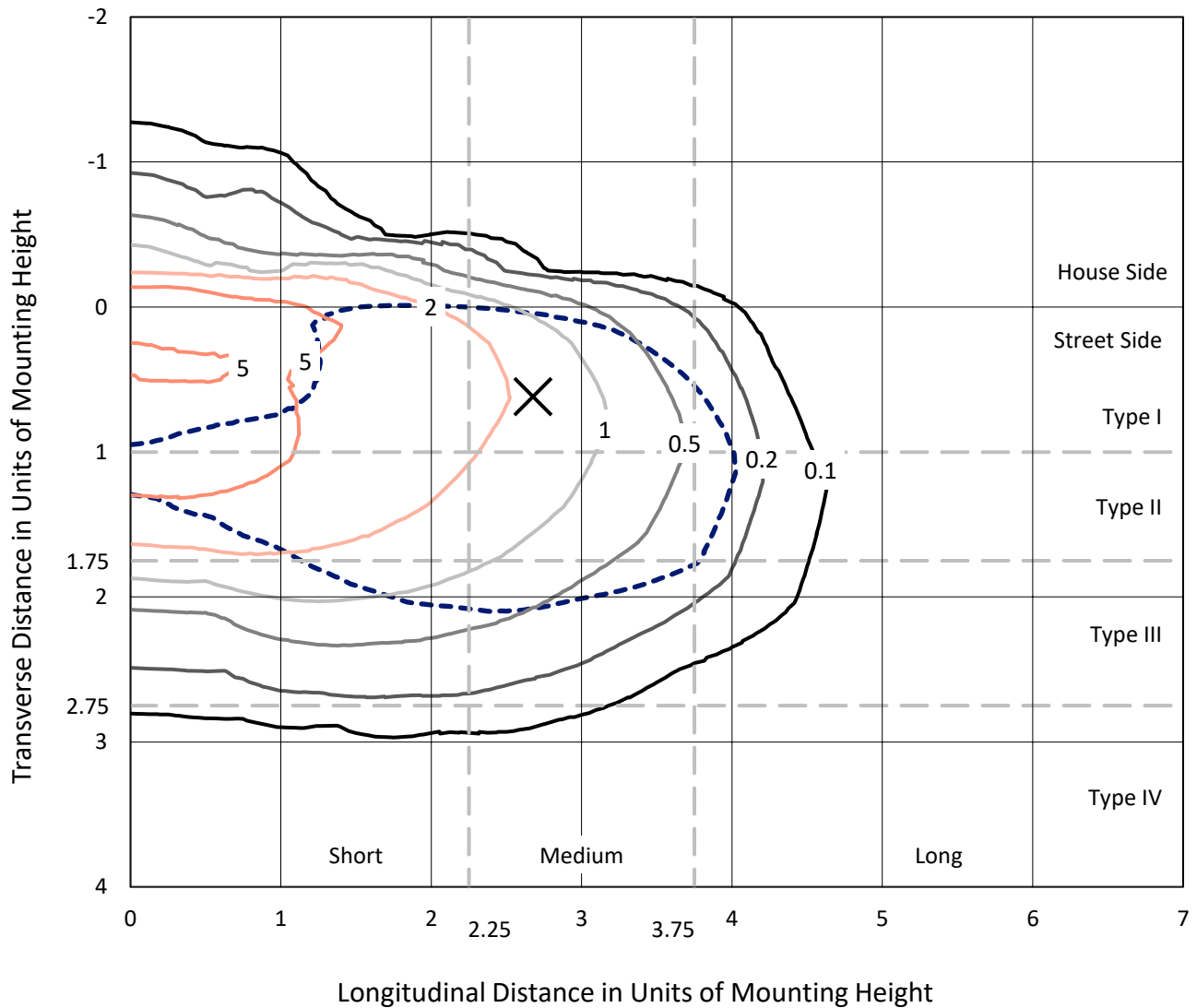
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P956439
 CATALOG NUMBER: GALN-SB9A-830-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

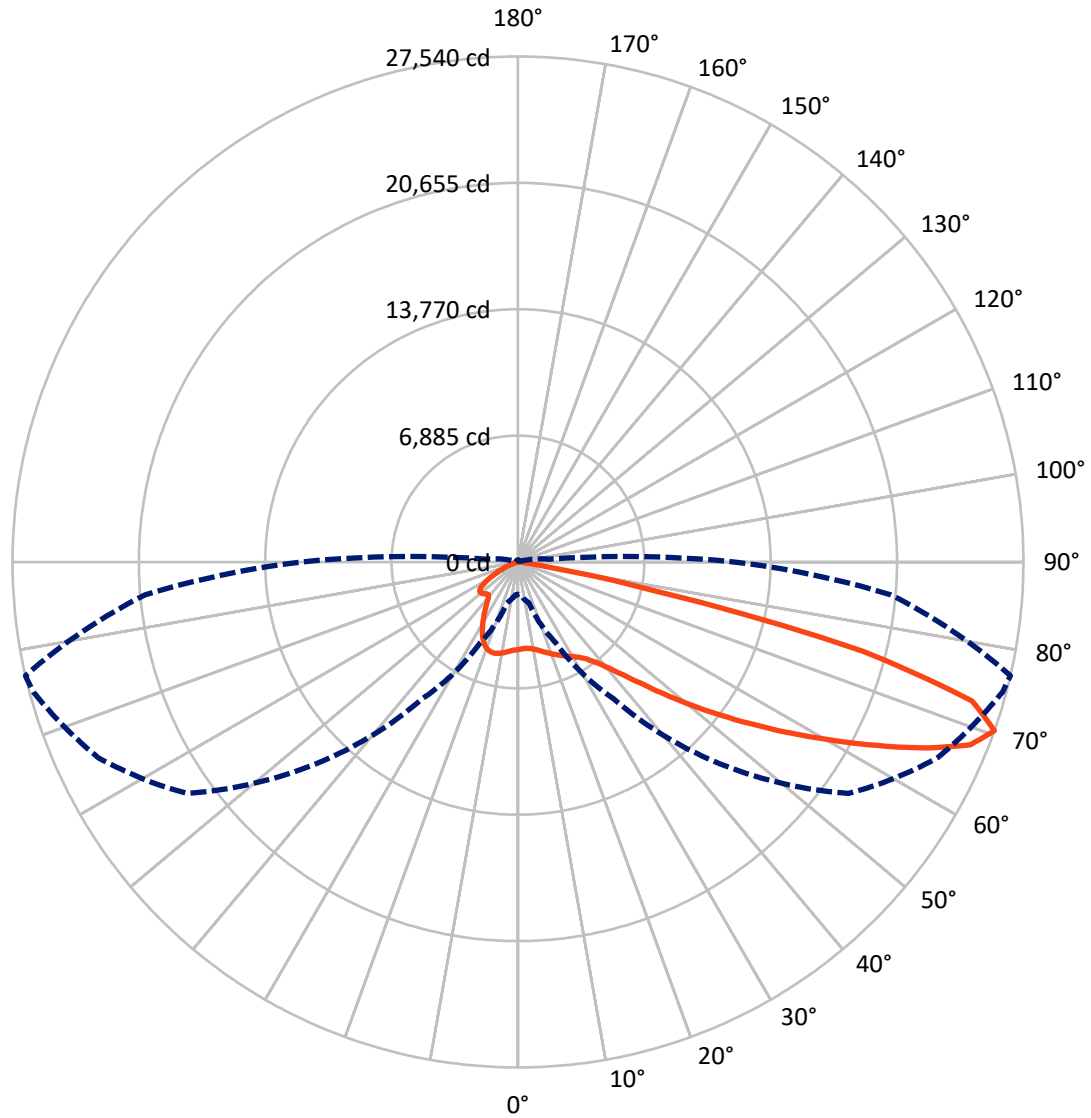
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type III - Medium - N/A

REPORT NUMBER: P956439
CATALOG NUMBER: GALN-SB9A-830-U-T3R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P956439
 CATALOG NUMBER: GALN-SB9A-830-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3222.0	0.0	3222.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	27343.0	0.0	27343.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	30565.0	0.0	30565.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.9	1.3
10°-20°	975.4	3.2
20°-30°	1508.7	4.9
30°-40°	2737.6	9.0
40°-50°	5167.5	16.9
50°-60°	7466.6	24.4
60°-70°	7948.0	26.0
70°-80°	4211.9	13.8
80°-90°	138.3	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°	30565.0	100.0
0°-180°	30565.0	100.0

Coefficient of Utilization



REPORT NUMBER: P956439

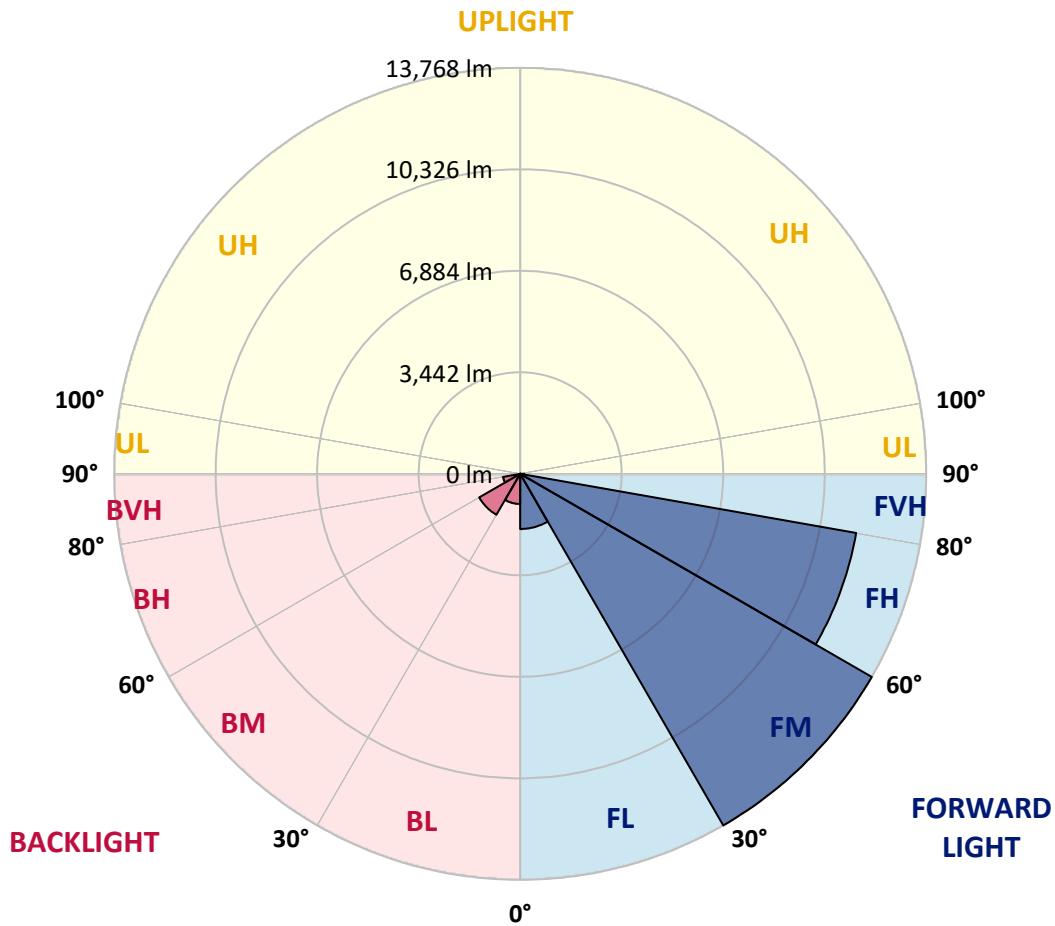
CATALOG NUMBER: GALN-SB9A-830-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1871.3	6.1			
FM (30°-60°)	13767.8	45.0			
FH (60°-80°)	11569.3	37.9			G4/12000
FVH (80°-90°)	134.6	0.4			G2/225
BL (0°-30°)	1023.7	3.3	B3/2500		
BM (30°-60°)	1603.9	5.2	B2/2500		
BH (60°-80°)	590.7	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.7	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-G4

Type III Medium



REPORT NUMBER: P956439

CATALOG NUMBER: GALN-SB9A-830-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4767.6	4767.6	4767.6	4767.6	4767.6	4767.6	4767.6	4767.6	4767.6	4767.6
2.5°	4476.1	4516.7	4510.9	4537.9	4547.5	4586.1	4624.8	4676.9	4734.8	4732.8
5°	4223.3	4263.8	4273.5	4310.1	4356.5	4416.3	4495.4	4599.7	4707.8	4725.1
7.5°	3924.1	3966.6	3991.6	4065.0	4149.9	4273.5	4402.8	4555.3	4734.8	4759.9
10°	3624.9	3663.5	3696.3	3800.6	3935.7	4119.0	4329.4	4549.5	4790.8	4827.4
12.5°	3439.6	3476.3	3513.0	3603.7	3771.6	3995.5	4281.2	4576.5	4883.4	4935.5
15°	3374.0	3406.8	3435.8	3516.8	3673.2	3928.0	4271.5	4632.5	5001.1	5070.6
17.5°	3383.6	3401.0	3420.3	3482.1	3634.6	3897.1	4288.9	4729.0	5140.1	5201.9
20°	3439.6	3449.3	3451.2	3493.7	3628.8	3893.2	4323.6	4821.6	5271.4	5354.4
22.5°	3511.0	3514.9	3511.0	3540.0	3665.4	3922.2	4370.0	4933.6	5418.1	5495.3
25°	3845.0	3771.6	3679.0	3623.0	3727.2	3978.1	4439.5	5084.1	5578.3	5653.5
27.5°	4881.5	4671.1	4339.1	3966.6	3854.6	4059.2	4536.0	5236.6	5740.4	5808.0
30°	6564.6	6288.6	5725.0	4885.3	4263.8	4229.1	4661.4	5389.1	5912.2	5985.5
32.5°	8251.6	8184.0	7533.6	6371.6	5184.5	4607.4	4869.9	5595.6	6140.0	6197.9
35°	9957.9	9820.8	9288.1	8139.6	6603.2	5377.5	5217.3	5865.9	6439.1	6504.8
37.5°	11264.6	11181.6	10851.6	9905.8	8286.3	6566.5	5811.8	6284.7	6873.4	6946.8
40°	12418.9	12380.3	12268.3	11644.9	10168.3	8122.3	6736.4	6933.3	7475.7	7562.5
42.5°	13326.1	13416.8	13480.5	13306.8	12108.1	9898.1	7979.4	7844.3	8315.3	8404.1
45°	14254.5	14285.4	14542.1	14793.0	14034.5	11754.9	9380.8	8911.7	9359.5	9469.5
47.5°	14850.9	14974.5	15426.1	15868.2	15653.9	13596.3	10886.3	10172.1	10569.8	10776.3
50°	14895.3	15128.9	15750.4	16520.6	16833.3	15348.9	12523.1	11608.2	12030.9	12258.7
52.5°	14156.1	14518.9	15482.1	16609.4	17470.2	16833.3	14215.9	13044.3	13586.7	13883.9
55°	10853.5	11328.3	14472.6	16126.8	17495.3	17958.6	15864.3	14540.2	15320.0	15655.8
57.5°	9456.0	9695.4	11378.5	15289.1	17030.1	18412.2	17354.4	15964.7	17205.8	17622.7
60°	7867.5	8182.1	9542.9	13918.7	16399.0	18456.5	18670.8	17802.2	19249.9	19718.9
62.5°	5346.6	5688.3	7041.4	11563.8	15536.2	18435.3	19749.8	19693.8	21521.7	22025.5
65°	3312.2	3526.5	4418.2	9442.5	14329.8	18458.5	20878.9	21990.7	23919.0	24430.5
67.5°	2617.3	2715.8	3181.0	7249.8	12251.0	17937.3	22006.2	24150.6	26175.4	26580.8
70°	1758.4	1818.2	2314.3	4860.2	9114.4	15532.3	21985.0	25235.4	27337.4	27540.1
72.5°	926.5	972.8	1353.1	2250.6	5504.9	11040.7	18531.8	23938.3	26181.2	25876.2
75°	463.2	540.5	911.1	1142.7	2351.0	6157.3	11507.8	18873.5	20606.8	19425.5
77.5°	351.3	424.6	752.8	752.8	818.4	2073.0	4873.7	10293.7	9494.6	7906.1
80°	223.9	289.5	658.2	569.4	341.6	526.9	1270.1	2883.7	2017.1	1534.5
82.5°	131.3	189.2	548.2	376.4	191.1	194.9	359.0	613.8	523.1	407.3
85°	52.1	123.5	376.4	148.6	75.3	48.3	108.1	131.3	108.1	81.1
87.5°	0.0	29.0	65.6	0.0	5.8	3.9	7.7	9.7	9.7	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956439
 CATALOG NUMBER: GALN-SB9A-830-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4767.6	0°	4767.6	4767.6	4767.6	4767.6	4767.6	4767.6	4767.6	4767.6	4767.6	4767.6
4771.4	2.5°	4788.8	4792.7	4804.3	4806.2	4779.2	4744.4	4730.9	4725.1	4702.0	4700.0
4802.3	5°	4846.7	4864.1	4846.7	4796.5	4676.9	4508.9	4381.5	4277.3	4182.7	4153.8
4908.5	7.5°	4962.5	4979.9	4927.8	4730.9	4429.8	4095.9	3794.8	3582.4	3391.4	3319.9
5037.8	10°	5128.5	5151.7	4987.6	4590.0	4057.3	3520.7	3011.1	2652.1	2372.2	2258.3
5213.5	12.5°	5337.0	5346.6	5020.4	4375.8	3572.8	2806.5	2084.6	1700.5	1451.5	1358.9
5425.8	15°	5566.7	5553.2	5024.3	4084.3	2912.7	1984.2	1360.8	1117.6	1017.2	986.3
5638.1	17.5°	5808.0	5752.0	4947.1	3663.5	2188.8	1356.9	1009.5	951.6	934.2	926.5
5848.5	20°	6045.4	5919.9	4806.2	3113.4	1571.2	1013.4	916.8	899.5	889.8	886.0
6060.8	22.5°	6261.6	6047.3	4564.9	2474.5	1140.7	895.6	866.7	851.2	833.8	826.1
6267.4	25°	6472.0	6120.7	4225.2	1878.1	913.0	837.7	814.5	785.6	762.4	752.8
6489.3	27.5°	6676.6	6167.0	3800.6	1389.7	814.5	783.7	741.2	700.7	683.3	679.4
6726.7	30°	6894.7	6182.4	3318.0	1036.5	754.7	716.1	654.3	608.0	598.4	600.3
7047.2	32.5°	7161.0	6205.6	2831.6	849.3	704.5	635.0	561.7	513.4	505.7	513.4
7514.3	35°	7479.5	6251.9	2362.6	781.7	660.1	552.0	472.9	432.4	424.6	430.4
8112.6	37.5°	7911.9	6327.2	1924.4	768.2	623.5	482.5	397.6	364.8	364.8	366.7
8846.1	40°	8487.1	6527.9	1532.6	758.6	604.2	430.4	335.9	322.3	328.1	332.0
9780.3	42.5°	9187.7	6954.5	1268.1	747.0	582.9	407.3	305.0	299.2	308.8	312.7
10899.8	45°	9973.3	7495.0	1175.5	727.7	563.6	422.7	291.5	283.7	295.3	297.3
12154.5	47.5°	10785.9	8023.8	1163.9	706.5	544.3	445.9	287.6	270.2	283.7	285.7
13494.0	50°	11608.2	8369.3	1175.5	673.6	513.4	445.9	289.5	256.7	268.3	274.1
14883.8	52.5°	12436.3	8527.6	1167.8	602.2	459.4	418.9	289.5	245.1	256.7	260.6
16385.4	55°	13239.2	8496.7	1050.0	496.1	389.9	370.6	281.8	235.5	243.2	245.1
17804.1	57.5°	13874.3	8066.3	831.9	386.0	316.6	308.8	256.7	223.9	229.7	227.8
19105.1	60°	14206.3	7120.5	594.5	297.3	249.0	243.2	225.8	208.5	212.3	202.7
20207.2	62.5°	14210.1	5869.7	397.6	235.5	198.8	193.0	193.0	187.2	183.4	164.1
21060.4	65°	13907.1	4481.9	264.4	187.2	160.2	150.6	162.1	160.2	146.7	119.7
21321.0	67.5°	13219.9	2937.8	200.7	146.7	123.5	117.7	129.3	135.1	125.5	100.4
20371.3	70°	11807.0	1710.2	166.0	113.9	92.6	86.9	104.2	115.8	104.2	81.1
17412.3	72.5°	9807.3	922.6	135.1	84.9	63.7	57.9	83.0	94.6	83.0	59.8
11172.0	75°	6363.9	494.1	104.2	56.0	32.8	36.7	61.8	69.5	57.9	38.6
3279.4	77.5°	2136.7	218.1	65.6	27.0	15.4	15.4	36.7	42.5	27.0	13.5
596.4	80°	476.8	90.7	27.0	11.6	5.8	5.8	7.7	7.7	3.9	0.0
183.4	82.5°	156.3	36.7	11.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0
46.3	85°	59.8	13.5	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.4	87.5°	23.2	1.9	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>
4767.6
4703.9
4136.4
3291.0
2210.1
1329.9
986.3
924.6
882.1
824.2
748.9
675.6
600.3
511.5
428.5
364.8
332.0
312.7
299.2
287.6
276.0
260.6
245.1
227.8
200.7
158.3
115.8
98.4
77.2
57.9
34.7
11.6
0.0
0.0
0.0
0.0
0.0

F REPORT)