

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: P944436

Luminaire Tested: **GALN-SB9B-850-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944436
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9B-850-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38476 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

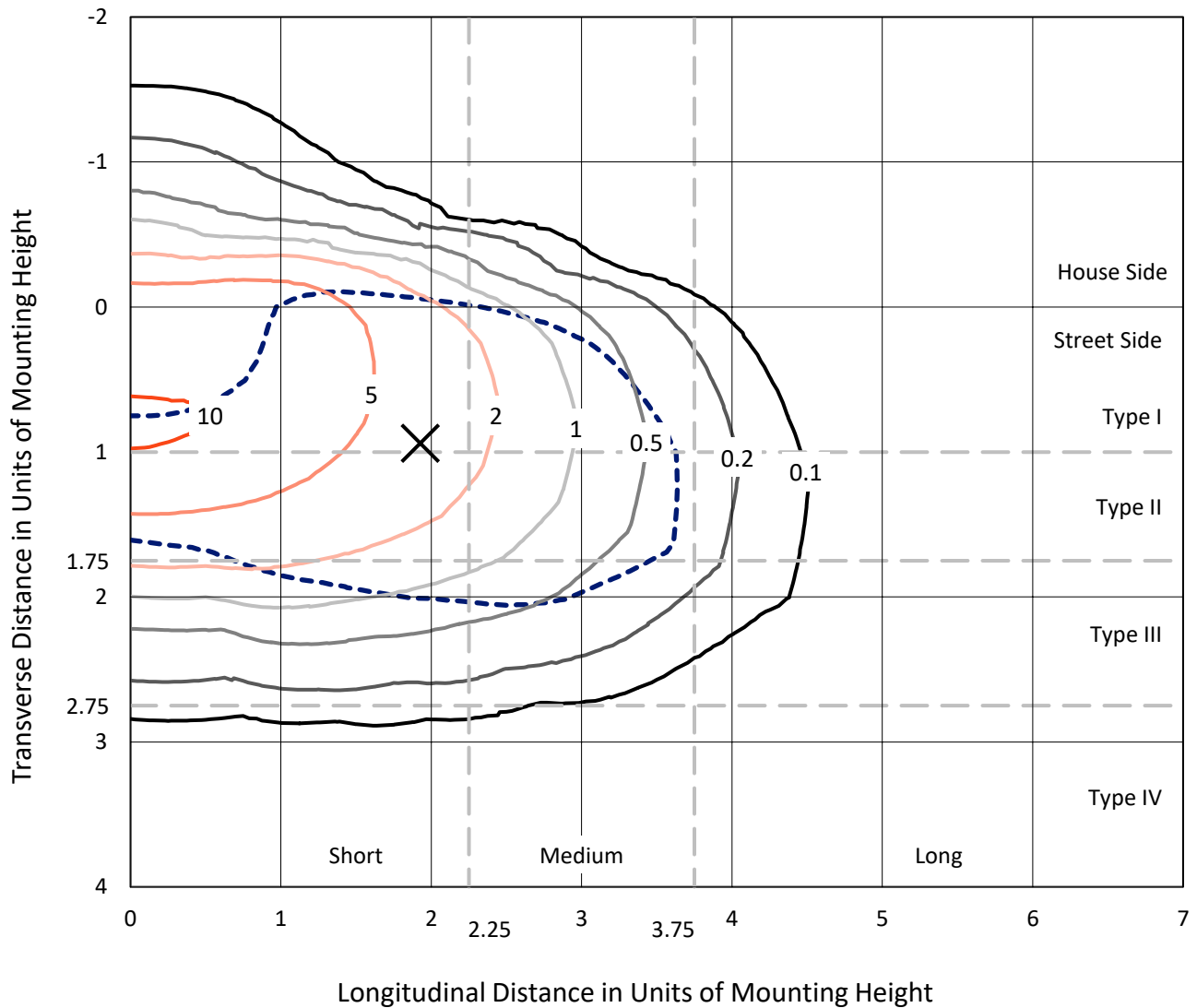
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944436
 CATALOG NUMBER: GALN-SB9B-850-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

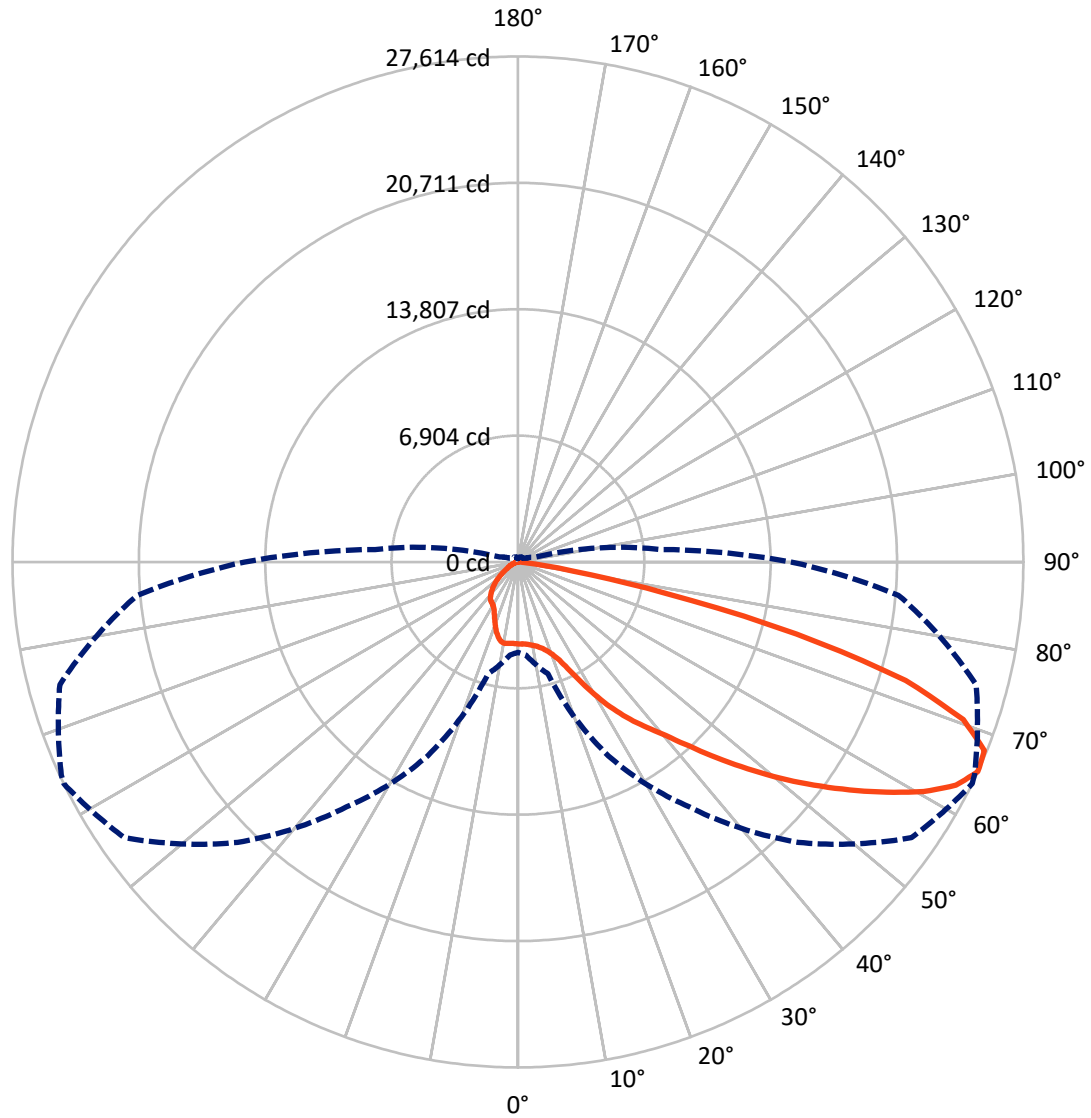
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Short - N/A

REPORT NUMBER: P944436
CATALOG NUMBER: GALN-SB9B-850-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P944436
 CATALOG NUMBER: GALN-SB9B-850-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5145.4	0.0	5145.4
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	33330.6	0.0	33330.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	38476.0	0.0	38476.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.9	1.1
10°-20°	1119.8	2.9
20°-30°	2122.0	5.5
30°-40°	4293.9	11.2
40°-50°	7314.8	19.0
50°-60°	9947.5	25.9
60°-70°	9341.2	24.3
70°-80°	3742.5	9.7
80°-90°	181.3	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°	38476.0	100.0
0°-180°	38476.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944436

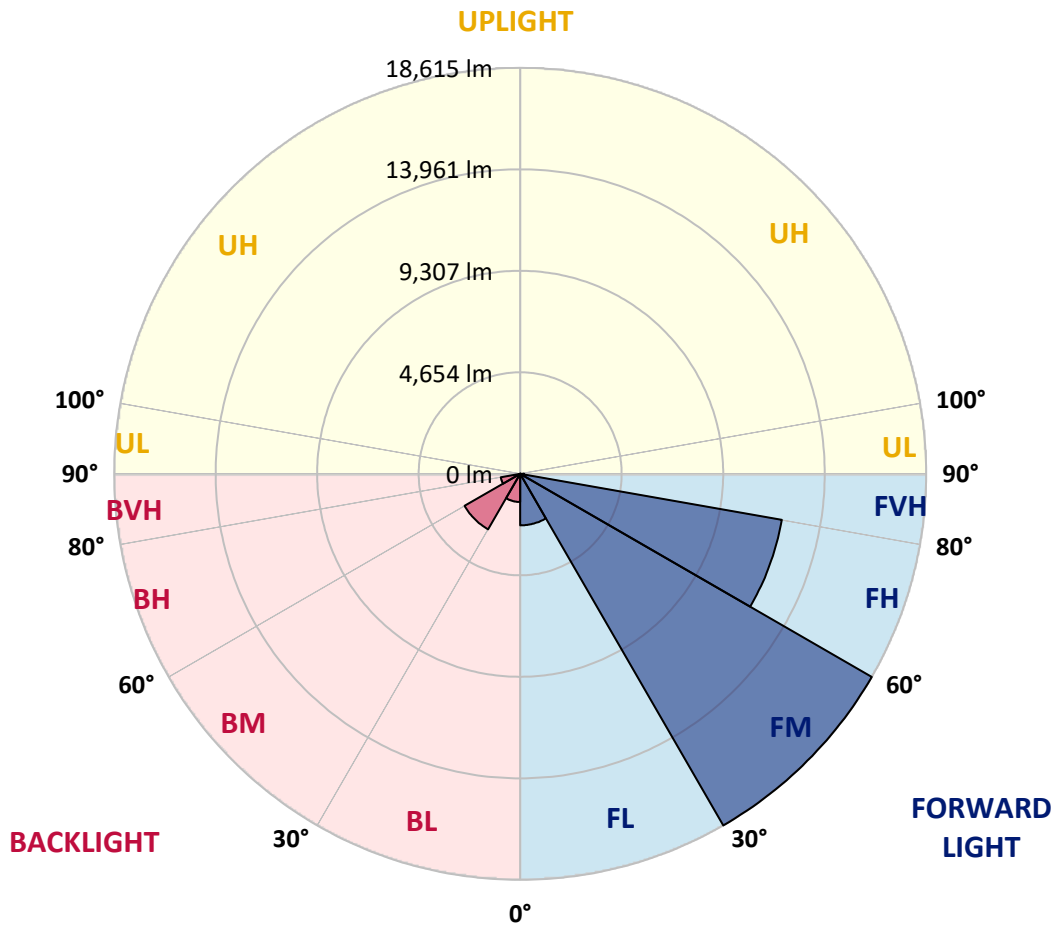
CATALOG NUMBER: GALN-SB9B-850-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2362.9	6.1			
FM (30°-60°)	18614.6	48.4			
FH (60°-80°)	12180.6	31.7			G5
FVH (80°-90°)	172.5	0.4			G2/225
BL (0°-30°)	1291.9	3.4	B3/2500		
BM (30°-60°)	2941.6	7.6	B3/5000		
BH (60°-80°)	903.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	8.9	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 Short



REPORT NUMBER: P944436

CATALOG NUMBER: GALN-SB9B-850-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	4475.2	4475.2	4475.2	4475.2	4475.2	4475.2	4475.2	4475.2	4475.2	4475.2
2.5°	4459.7	4490.6	4482.9	4475.2	4472.6	4477.7	4480.3	4477.7	4477.7	4477.7
5°	4374.6	4400.4	4400.4	4418.4	4444.2	4475.2	4498.4	4503.5	4508.7	4516.4
7.5°	4212.1	4232.7	4248.2	4307.5	4372.0	4454.5	4524.2	4560.3	4565.4	4593.8
10°	4101.2	4126.9	4152.7	4214.6	4307.5	4431.3	4550.0	4637.7	4650.6	4717.6
12.5°	4096.0	4121.8	4155.3	4222.4	4330.7	4462.3	4606.7	4733.1	4756.3	4854.3
15°	4150.2	4181.1	4212.1	4294.6	4410.7	4570.6	4725.4	4882.7	4905.9	5045.2
17.5°	4261.1	4302.3	4325.6	4408.1	4531.9	4709.9	4913.6	5094.2	5114.8	5277.3
20°	4480.3	4529.3	4537.1	4604.1	4725.4	4916.2	5158.7	5383.1	5408.9	5594.6
22.5°	4934.3	5003.9	4942.0	4975.6	5083.9	5274.8	5537.8	5821.6	5857.7	6069.2
25°	5733.9	5831.9	5672.0	5615.2	5661.7	5860.3	6190.4	6548.9	6590.2	6760.5
27.5°	7304.7	7178.3	6935.9	6698.6	6559.3	6672.8	7044.2	7487.8	7539.4	7704.5
30°	9030.3	8919.4	8591.8	8065.6	7735.4	7717.4	8060.4	8555.7	8615.0	8772.3
32.5°	10758.4	10652.7	10296.7	9649.3	9076.7	8793.0	9030.3	9579.7	9610.6	9711.2
35°	12458.2	12349.9	11993.9	11331.0	10626.9	9982.1	9935.6	10554.7	10565.0	10670.7
37.5°	14168.3	14078.0	13698.9	13048.9	12355.0	11465.2	11034.4	11478.1	11491.0	11594.1
40°	15388.4	15427.0	15166.5	14663.6	14067.7	13095.3	12267.4	12460.8	12383.4	12556.2
42.5°	16435.6	16512.9	16286.0	16033.2	15687.6	14831.2	13794.3	13760.8	13637.0	13729.8
45°	17340.9	17405.4	17201.6	17142.3	17134.6	16533.6	15463.2	15262.0	15089.2	15071.1
47.5°	17673.7	17797.5	17885.2	18083.8	18470.7	18217.9	17188.7	16876.6	16683.2	16541.3
50°	17800.0	17931.6	18230.8	18808.6	19724.2	19832.6	18906.6	18555.8	18318.5	18060.6
52.5°	17629.8	17864.5	18266.9	19239.3	20567.7	21127.4	20554.8	20247.8	19977.0	19556.6
55°	16626.4	16861.2	17684.0	19234.2	20988.1	22035.3	22112.7	21976.0	21671.6	21008.7
57.5°	14511.4	14859.6	16162.2	18579.0	20980.4	22816.9	23639.7	23737.7	23397.2	22448.0
60°	11581.2	12053.3	13642.1	17126.8	20333.0	23239.9	24978.3	25468.4	25107.3	23866.7
62.5°	8081.1	8627.9	10131.7	14851.9	18852.4	22935.5	25955.9	26861.3	26587.9	25135.7
65°	4929.1	5104.5	6316.8	11687.0	16335.0	21661.3	26257.7	27614.4	27524.2	25912.1
67.5°	3283.5	3430.5	3778.7	8014.0	12680.0	19115.5	25535.5	27482.9	27508.7	25785.7
70°	1978.4	2104.7	2331.7	4660.9	8217.8	15130.4	23299.2	25806.3	25955.9	24096.2
72.5°	815.1	900.2	1106.5	2112.5	4255.9	9602.9	18553.2	22156.5	22504.8	20260.7
75°	461.7	505.6	650.0	1060.1	1846.8	4475.2	11238.2	15728.8	16242.1	13964.6
77.5°	306.9	327.6	420.4	686.1	1039.5	1527.0	4802.7	8194.6	9174.7	7627.1
80°	206.3	224.4	288.9	459.1	675.8	655.2	1529.5	3035.9	3734.9	2620.6
82.5°	139.3	141.9	206.3	301.8	428.2	317.3	451.4	944.0	1186.5	758.3
85°	80.0	77.4	152.2	175.4	190.9	131.5	136.7	283.7	371.4	319.8
87.5°	10.3	15.5	59.3	46.4	25.8	28.4	28.4	49.0	72.2	77.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944436
 CATALOG NUMBER: GALN-SB9B-850-U-T3-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4475.2	0°	4475.2	4475.2	4475.2	4475.2	4475.2	4475.2	4475.2	4475.2	4475.2	4475.2
4480.3	2.5°	4480.3	4477.7	4470.0	4462.3	4444.2	4433.9	4439.0	4433.9	4431.3	4433.9
4513.8	5°	4513.8	4506.1	4485.5	4459.7	4423.6	4379.7	4351.3	4310.1	4271.4	4248.2
4604.1	7.5°	4604.1	4596.4	4568.0	4495.8	4379.7	4196.6	4028.9	3881.9	3771.0	3706.5
4748.6	10°	4748.6	4735.7	4691.8	4531.9	4227.5	3827.7	3495.0	3219.0	3038.5	2953.3
4918.8	12.5°	4918.8	4903.3	4825.9	4498.4	3938.7	3314.5	2855.3	2548.4	2380.7	2305.9
5114.8	15°	5120.0	5099.4	4947.2	4338.5	3518.2	2747.0	2326.6	2097.0	1988.7	1921.6
5365.0	17.5°	5370.2	5334.1	5037.5	4098.6	3061.7	2313.7	2001.6	1828.8	1733.3	1668.8
5692.6	20°	5695.2	5635.9	5109.7	3812.3	2641.2	2040.3	1782.3	1637.9	1565.7	1508.9
6156.9	22.5°	6149.2	6064.0	5197.4	3502.7	2344.6	1852.0	1619.8	1514.1	1454.7	1390.3
6804.3	25°	6711.4	6610.9	5305.7	3216.4	2140.9	1689.5	1501.2	1413.5	1343.8	1269.0
7652.9	27.5°	7498.1	7317.6	5434.7	2981.7	1965.5	1550.2	1392.8	1294.8	1214.9	1153.0
8615.0	30°	8375.1	8078.5	5548.2	2839.9	1805.5	1421.2	1251.0	1153.0	1078.2	1034.3
9479.1	32.5°	9205.7	8803.3	5623.0	2778.0	1661.1	1274.2	1096.2	990.5	933.7	920.8
10325.1	35°	9989.8	9458.4	5615.2	2718.6	1532.1	1127.2	944.0	835.7	791.9	799.6
11235.6	37.5°	10892.6	10157.4	5561.1	2625.8	1426.4	993.0	812.5	717.1	678.4	680.9
12342.2	40°	11942.4	10964.8	5527.5	2450.4	1310.3	869.2	704.2	626.8	598.4	588.1
13508.0	42.5°	13061.8	11746.3	5532.7	2251.8	1165.9	758.3	629.4	564.9	539.1	531.3
14805.4	45°	14186.4	12491.8	5540.4	2045.4	1013.7	673.2	575.2	521.0	505.6	495.2
16120.9	47.5°	15243.9	13126.3	5396.0	1823.6	864.1	608.7	531.3	495.2	482.3	469.4
17441.5	50°	16229.2	13549.3	5047.8	1565.7	745.4	557.1	497.8	472.0	459.1	446.2
18638.3	52.5°	16995.3	13616.3	4472.6	1300.0	662.9	518.4	477.2	454.0	438.5	425.6
19605.6	55°	17335.8	13195.9	3654.9	1052.4	598.4	484.9	456.5	433.3	415.3	402.4
20366.5	57.5°	17248.1	12311.2	2850.2	846.0	536.5	451.4	430.8	415.3	394.6	374.0
20982.9	60°	16817.3	11127.3	2148.6	704.2	479.8	415.3	402.4	389.5	361.1	330.2
21220.2	62.5°	16071.9	9639.0	1532.1	582.9	417.9	374.0	368.8	358.5	317.3	260.5
20869.5	65°	14931.8	7830.9	1031.7	484.9	358.5	327.6	330.2	312.1	257.9	193.5
19584.9	67.5°	13265.6	5726.1	660.3	397.2	299.2	273.4	276.0	265.7	219.2	165.1
17150.0	70°	11142.8	3791.6	430.8	301.8	239.9	211.5	227.0	229.6	185.7	134.1
13162.4	72.5°	8168.8	2238.9	301.8	224.4	175.4	147.0	185.7	190.9	149.6	100.6
7918.6	75°	4655.7	1062.7	227.0	162.5	108.3	103.2	144.4	144.4	103.2	67.1
3427.9	77.5°	1955.1	443.6	159.9	105.8	61.9	59.3	98.0	90.3	51.6	31.0
835.7	80°	564.9	198.6	85.1	51.6	25.8	23.2	38.7	28.4	12.9	5.2
317.3	82.5°	221.8	87.7	33.5	20.6	10.3	10.3	5.2	0.0	0.0	0.0
180.6	85°	131.5	36.1	15.5	7.7	2.6	0.0	0.0	0.0	0.0	0.0
38.7	87.5°	33.5	7.7	5.2	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>
4475.2
4444.2
4253.3
3709.1
2945.6
2298.2
1924.2
1663.7
1498.6
1379.9
1261.3
1140.1
1026.6
928.6
799.6
691.3
585.5
528.8
495.2
469.4
446.2
423.0
399.8
371.4
325.0
255.4
188.3
157.3
129.0
95.4
61.9
31.0
5.2
0.0
0.0
0.0
0.0

F REPORT)