

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: P944566

Luminaire Tested: **GALN-SB9C-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944566
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-SB9C-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 615mA 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: 46520 lumens
Efficiency: N/A
Efficacy: 103.4 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

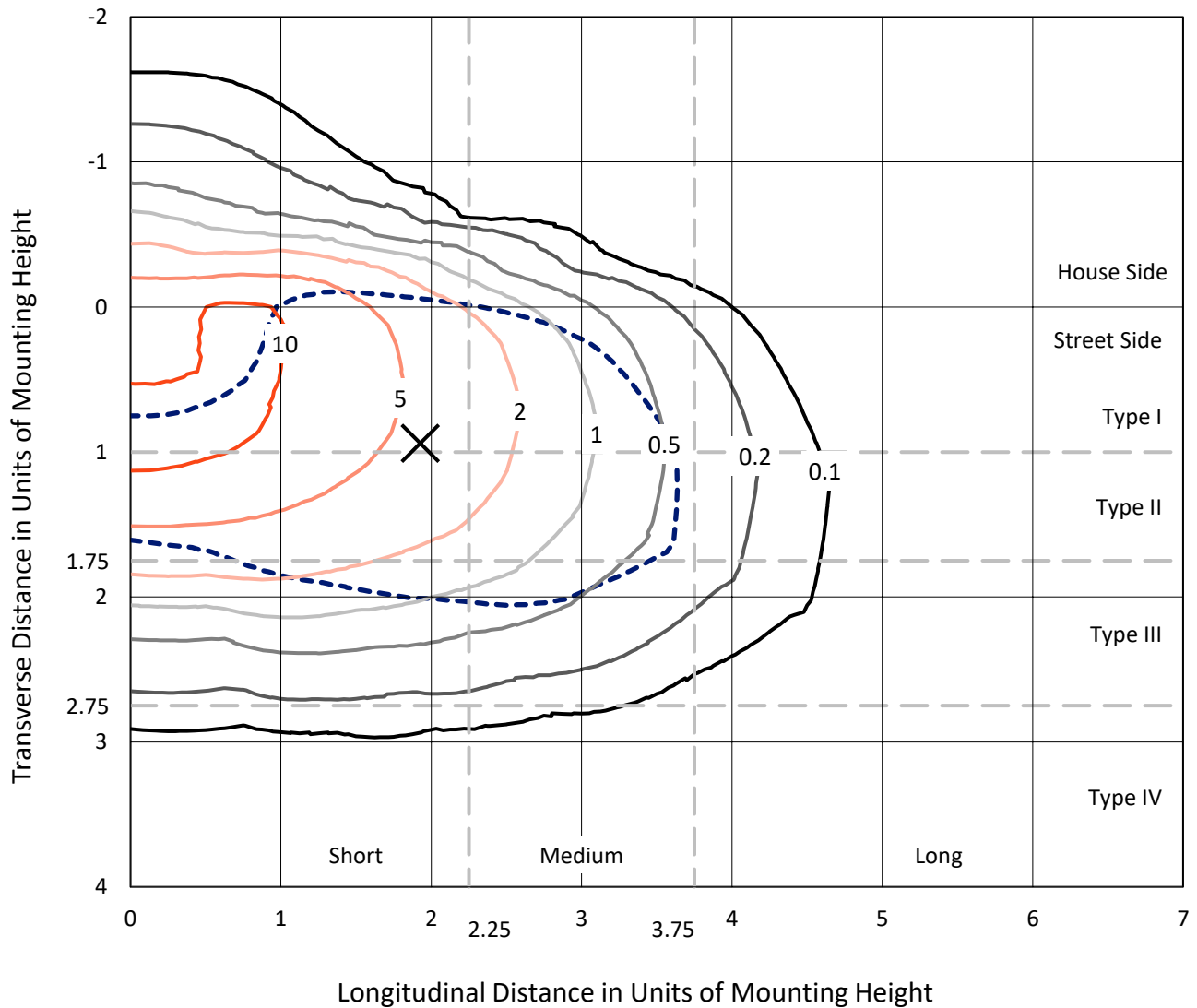
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944566
 CATALOG NUMBER: GALN-SB9C-827-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

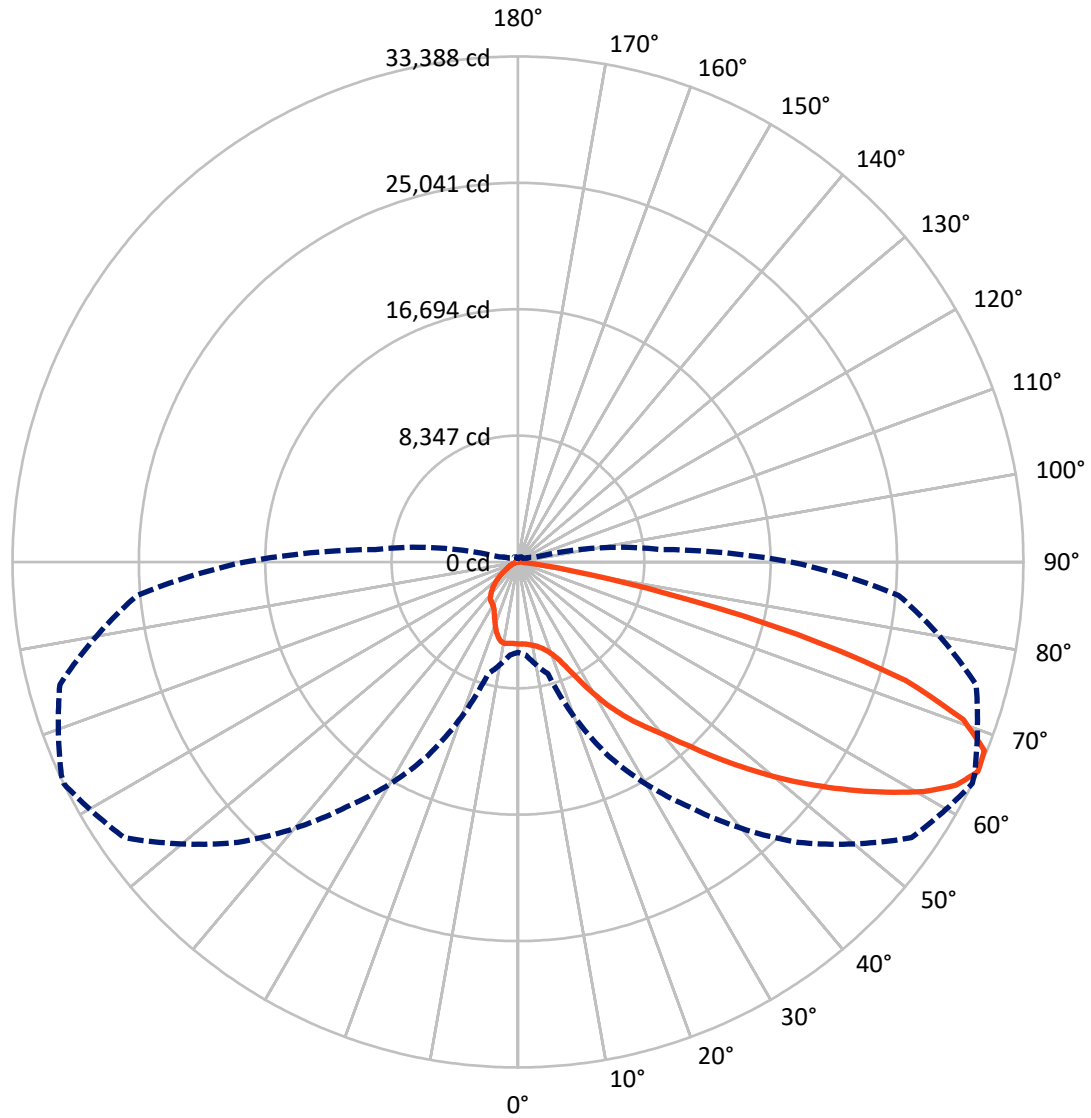
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type III - Short - N/A

REPORT NUMBER: P944566
CATALOG NUMBER: GALN-SB9C-827-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P944566
 CATALOG NUMBER: GALN-SB9C-827-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6221.1	0.0	6221.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	40298.9	0.0	40298.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	46520.0	0.0	46520.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.2	1.1
10°-20°	1354.0	2.9
20°-30°	2565.6	5.5
30°-40°	5191.7	11.2
40°-50°	8844.0	19.0
50°-60°	12027.2	25.9
60°-70°	11294.2	24.3
70°-80°	4524.9	9.7
80°-90°	219.2	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°	46520.0	100.0
0°-180°	46520.0	100.0

Coefficient of Utilization



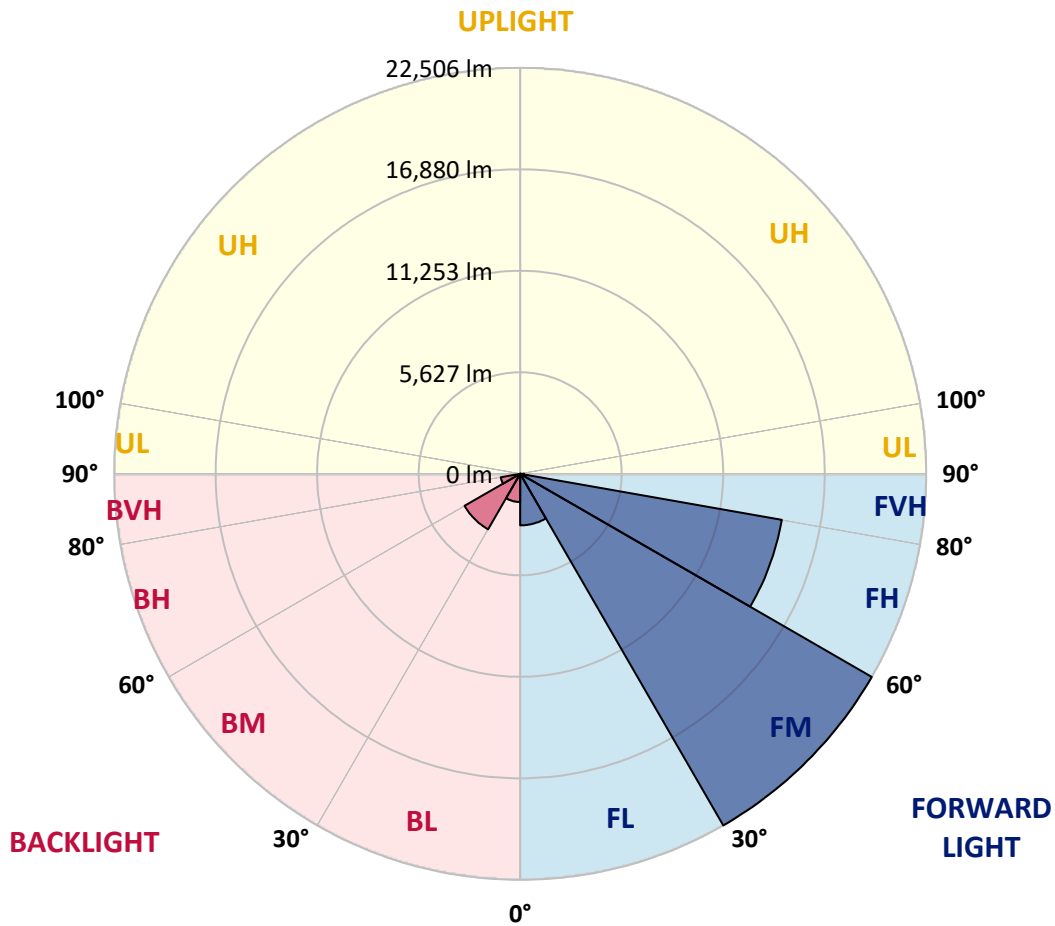
REPORT NUMBER: P944566
 CATALOG NUMBER: GALN-SB9C-827-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2856.9	6.1			
FM (30°-60°)	22506.3	48.4			
FH (60°-80°)	14727.2	31.7			G5
FVH (80°-90°)	208.5	0.4			G2/225
BL (0°-30°)	1561.9	3.4	B3/2500		
BM (30°-60°)	3556.6	7.6	B3/5000		
BH (60°-80°)	1091.9	2.3	B3/2500		G3/2500
BVH (80°-90°)	10.7	0.0			G1/100
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: P944566
 CATALOG NUMBER: GALN-SB9C-827-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	5410.8	5410.8	5410.8	5410.8	5410.8	5410.8	5410.8	5410.8	5410.8	5410.8
2.5°	5392.0	5429.5	5420.1	5410.8	5407.6	5413.9	5417.0	5413.9	5413.9	5413.9
5°	5289.1	5320.3	5320.3	5342.2	5373.3	5410.8	5438.8	5445.1	5451.3	5460.7
7.5°	5092.7	5117.6	5136.3	5208.1	5286.0	5385.8	5470.0	5513.7	5519.9	5554.2
10°	4958.6	4989.7	5020.9	5095.8	5208.1	5357.7	5501.2	5607.2	5622.8	5703.9
12.5°	4952.3	4983.5	5024.1	5105.1	5236.1	5395.2	5569.8	5722.6	5750.7	5869.2
15°	5017.8	5055.2	5092.7	5192.5	5332.8	5526.1	5713.3	5903.5	5931.6	6100.0
17.5°	5151.9	5201.8	5229.9	5329.7	5479.4	5694.6	5940.9	6159.2	6184.2	6380.6
20°	5417.0	5476.2	5485.6	5566.7	5713.3	5944.0	6237.2	6508.5	6539.7	6764.2
22.5°	5965.9	6050.1	5975.2	6015.8	6146.7	6377.5	6695.6	7038.7	7082.3	7338.0
25°	6932.6	7051.1	6857.8	6789.2	6845.3	7085.4	7484.6	7918.1	7968.0	8173.8
27.5°	8831.9	8679.0	8385.9	8099.0	7930.6	8067.8	8516.9	9053.3	9115.6	9315.2
30°	10918.2	10784.1	10388.0	9751.8	9352.7	9330.8	9745.6	10344.4	10416.1	10606.3
32.5°	13007.7	12879.8	12449.4	11666.7	10974.3	10631.3	10918.2	11582.5	11619.9	11741.5
35°	15062.8	14931.8	14501.5	13700.0	12848.6	12069.0	12012.8	12761.3	12773.8	12901.6
37.5°	17130.4	17021.3	16562.8	15777.0	14938.1	13862.1	13341.3	13877.7	13893.3	14018.1
40°	18605.5	18652.3	18337.3	17729.2	17008.8	15833.1	14832.0	15065.9	14972.4	15181.3
42.5°	19871.7	19965.2	19690.8	19385.2	18967.3	17931.9	16678.2	16637.7	16488.0	16600.3
45°	20966.3	21044.3	20797.9	20726.2	20716.8	19990.2	18696.0	18452.7	18243.8	18221.9
47.5°	21368.6	21518.3	21624.3	21864.5	22332.2	22026.6	20782.3	20405.0	20171.1	19999.5
50°	21521.4	21680.5	22042.2	22740.8	23847.9	23978.9	22859.3	22435.2	22148.2	21836.4
52.5°	21315.6	21599.4	22085.9	23261.6	24867.7	25544.4	24852.1	24481.0	24153.5	23645.2
55°	20102.5	20386.2	21381.1	23255.3	25376.0	26642.1	26735.7	26570.4	26202.4	25400.9
57.5°	17545.2	17966.2	19541.1	22463.2	25366.6	27587.1	28581.9	28700.4	28288.8	27141.1
60°	14002.5	14573.2	16494.2	20707.5	24583.9	28098.5	30200.5	30793.0	30356.4	28856.3
62.5°	9770.6	10431.7	12249.8	17956.9	22793.8	27730.5	31382.4	32477.0	32146.5	30390.7
65°	5959.6	6171.7	7637.4	14130.3	19750.1	26189.9	31747.3	33387.7	33278.5	31329.4
67.5°	3970.0	4147.7	4568.7	9689.5	15331.0	23111.9	30874.1	33228.6	33259.8	31176.6
70°	2392.0	2544.8	2819.2	5635.3	9935.8	18293.7	28170.3	31201.5	31382.4	29133.9
72.5°	985.5	1088.4	1337.9	2554.1	5145.7	11610.5	22432.0	26788.7	27209.7	24496.5
75°	558.2	611.2	785.9	1281.7	2232.9	5410.8	13587.7	19017.2	19637.8	16884.1
77.5°	371.1	396.1	508.3	829.5	1256.8	1846.2	5806.8	9907.8	11092.8	9221.7
80°	249.5	271.3	349.3	555.1	817.1	792.1	1849.3	3670.6	4515.7	3168.5
82.5°	168.4	171.5	249.5	364.9	517.7	383.6	545.8	1141.4	1434.6	916.9
85°	96.7	93.6	184.0	212.1	230.8	159.0	165.3	343.0	449.1	386.7
87.5°	12.5	18.7	71.7	56.1	31.2	34.3	34.3	59.3	87.3	93.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944566
 CATALOG NUMBER: GALN-SB9C-827-U-T3-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5410.8	0°	5410.8	5410.8	5410.8	5410.8	5410.8	5410.8	5410.8	5410.8	5410.8	5410.8
5417.0	2.5°	5417.0	5413.9	5404.5	5395.2	5373.3	5360.9	5367.1	5360.9	5357.7	5360.9
5457.5	5°	5457.5	5448.2	5423.2	5392.0	5348.4	5295.4	5261.1	5211.2	5164.4	5136.3
5566.7	7.5°	5566.7	5557.3	5523.0	5435.7	5295.4	5074.0	4871.2	4693.5	4559.4	4481.4
5741.3	10°	5741.3	5725.7	5672.7	5479.4	5111.4	4628.0	4225.7	3892.0	3673.7	3570.8
5947.2	12.5°	5947.2	5928.4	5834.9	5438.8	4762.1	4007.4	3452.3	3081.2	2878.5	2788.0
6184.2	15°	6190.4	6165.5	5981.5	5245.5	4253.8	3321.3	2813.0	2535.4	2404.4	2323.4
6486.7	17.5°	6492.9	6449.3	6090.6	4955.4	3701.8	2797.4	2420.0	2211.1	2095.7	2017.7
6882.7	20°	6885.9	6814.1	6177.9	4609.3	3193.4	2466.8	2154.9	1980.3	1893.0	1824.4
7444.1	22.5°	7434.7	7331.8	6284.0	4235.0	2834.8	2239.1	1958.5	1830.6	1758.9	1680.9
8226.8	25°	8114.6	7993.0	6414.9	3888.9	2588.4	2042.7	1815.0	1709.0	1624.8	1534.3
9252.9	27.5°	9065.8	8847.4	6570.9	3605.1	2376.4	1874.3	1684.0	1565.5	1468.9	1394.0
10416.1	30°	10126.1	9767.4	6708.1	3433.6	2183.0	1718.3	1512.5	1394.0	1303.6	1250.6
11460.8	32.5°	11130.3	10643.8	6798.5	3358.7	2008.4	1540.6	1325.4	1197.5	1128.9	1113.3
12483.7	35°	12078.3	11435.9	6789.2	3287.0	1852.4	1362.8	1141.4	1010.4	957.4	966.8
13584.6	37.5°	13169.8	12281.0	6723.7	3174.7	1724.6	1200.7	982.4	867.0	820.2	823.3
14922.5	40°	14439.1	13257.1	6683.1	2962.7	1584.2	1051.0	851.4	757.8	723.5	711.0
16332.1	42.5°	15792.6	14202.1	6689.4	2722.5	1409.6	916.9	760.9	683.0	651.8	642.4
17900.7	45°	17152.3	15103.3	6698.7	2473.0	1225.6	814.0	695.4	630.0	611.2	598.8
19491.2	47.5°	18430.9	15870.5	6524.1	2204.8	1044.7	736.0	642.4	598.8	583.2	567.6
21087.9	50°	19622.2	16382.0	6103.1	1893.0	901.3	673.6	601.9	570.7	555.1	539.5
22535.0	52.5°	20548.4	16463.1	5407.6	1571.8	801.5	626.8	576.9	548.9	530.2	514.6
23704.4	55°	20960.1	15954.7	4419.0	1272.4	723.5	586.3	552.0	523.9	502.1	486.5
24624.4	57.5°	20854.0	14885.0	3446.0	1022.9	648.7	545.8	520.8	502.1	477.1	452.2
25369.8	60°	20333.2	13453.6	2597.8	851.4	580.1	502.1	486.5	470.9	436.6	399.2
25656.7	62.5°	19432.0	11654.2	1852.4	704.8	505.2	452.2	446.0	433.5	383.6	315.0
25232.5	65°	18053.5	9468.0	1247.4	586.3	433.5	396.1	399.2	377.3	311.9	233.9
23679.5	67.5°	16038.9	6923.3	798.4	480.3	361.8	330.6	333.7	321.2	265.1	199.6
20735.5	70°	13472.3	4584.3	520.8	364.9	290.0	255.7	274.4	277.6	224.5	162.2
15914.2	72.5°	9876.6	2706.9	364.9	271.3	212.1	177.8	224.5	230.8	180.9	121.6
9574.1	75°	5629.1	1284.9	274.4	196.5	131.0	124.7	174.6	174.6	124.7	81.1
4144.6	77.5°	2363.9	536.4	193.4	127.9	74.8	71.7	118.5	109.2	62.4	37.4
1010.4	80°	683.0	240.1	102.9	62.4	31.2	28.1	46.8	34.3	15.6	6.2
383.6	82.5°	268.2	106.0	40.5	24.9	12.5	12.5	6.2	0.0	0.0	0.0
218.3	85°	159.0	43.7	18.7	9.4	3.1	0.0	0.0	0.0	0.0	0.0
46.8	87.5°	40.5	9.4	6.2	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>
5410.8
5373.3
5142.6
4484.5
3561.4
2778.7
2326.5
2011.5
1811.9
1668.4
1525.0
1378.4
1241.2
1122.7
966.8
835.8
707.9
639.3
598.8
567.6
539.5
511.4
483.4
449.1
392.9
308.7
227.7
190.2
155.9
115.4
74.8
37.4
6.2
0.0
0.0
0.0
0.0

F REPORT)