

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: P954992

Luminaire Tested: **GALN-SB8A-827-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954992  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8A-827-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

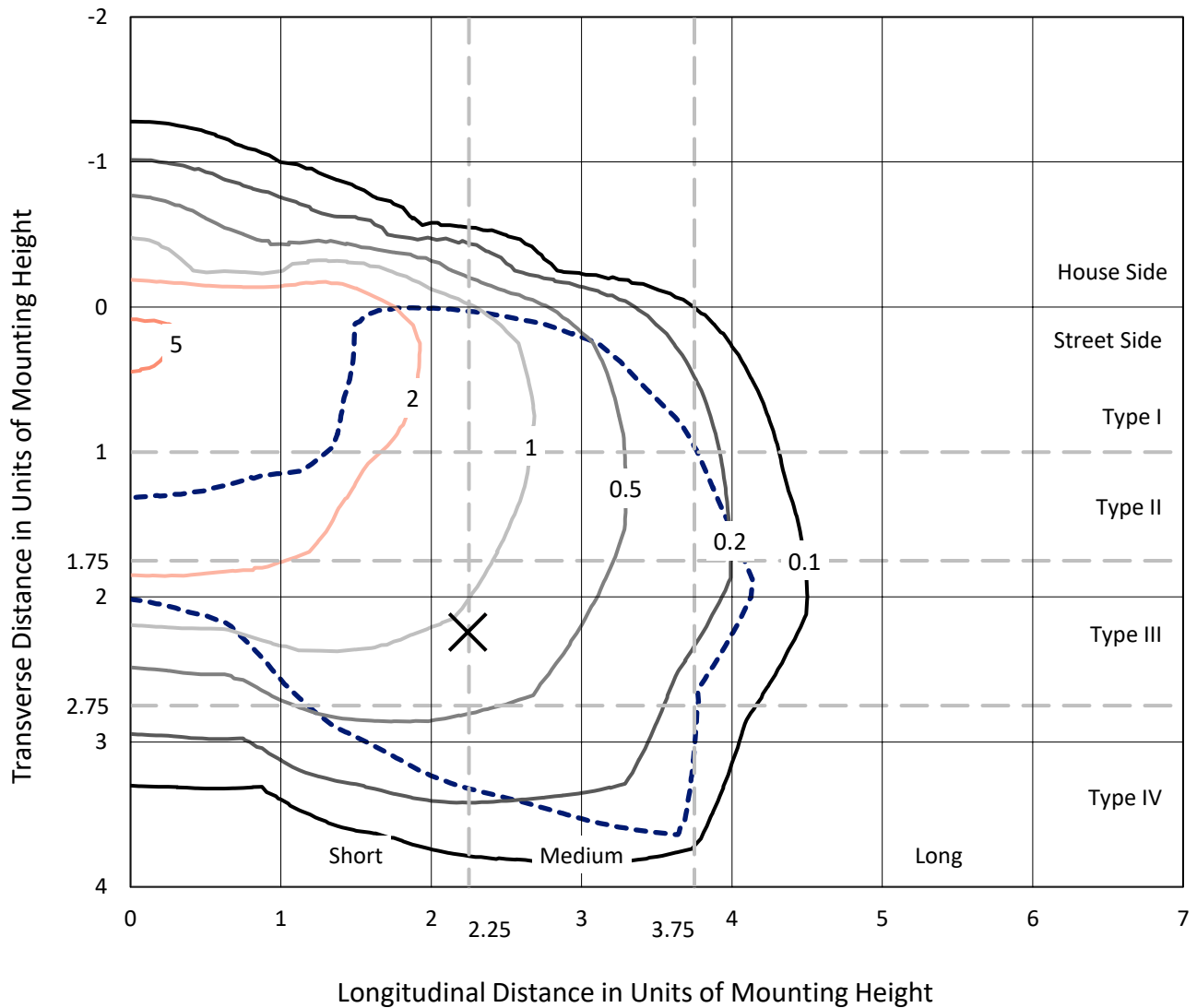
Lumens per Lamp: N/A  
Luminaire Lumens: 24296 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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: P954992  
 CATALOG NUMBER: GALN-SB8A-827-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

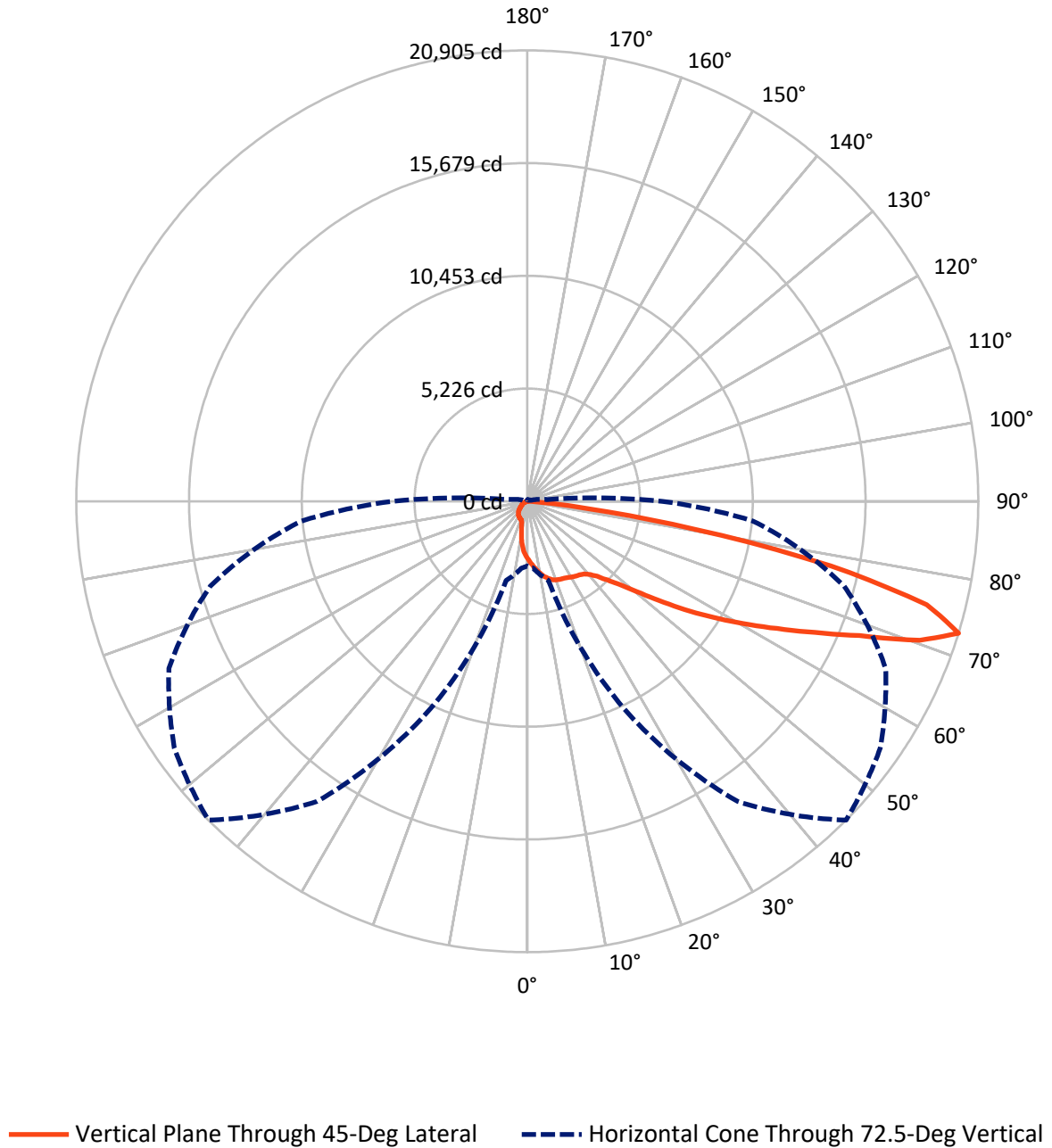
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type IV - Short - N/A

REPORT NUMBER: P954992  
CATALOG NUMBER: GALN-SB8A-827-U-T4W-HSS

### Luminous Intensity Polar Plot



REPORT NUMBER: P954992  
 CATALOG NUMBER: GALN-SB8A-827-U-T4W-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2552.8	0.0	2552.8
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	21743.2	0.0	21743.2
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	24296.0	0.0	24296.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	250.8	1.0
10°-20°	732.9	3.0
20°-30°	1203.6	5.0
30°-40°	1707.0	7.0
40°-50°	2821.5	11.6
50°-60°	5068.4	20.9
60°-70°	7037.8	29.0
70°-80°	5105.0	21.0
80°-90°	369.1	1.5
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°	24296.0	100.0
0°-180°	24296.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P954992

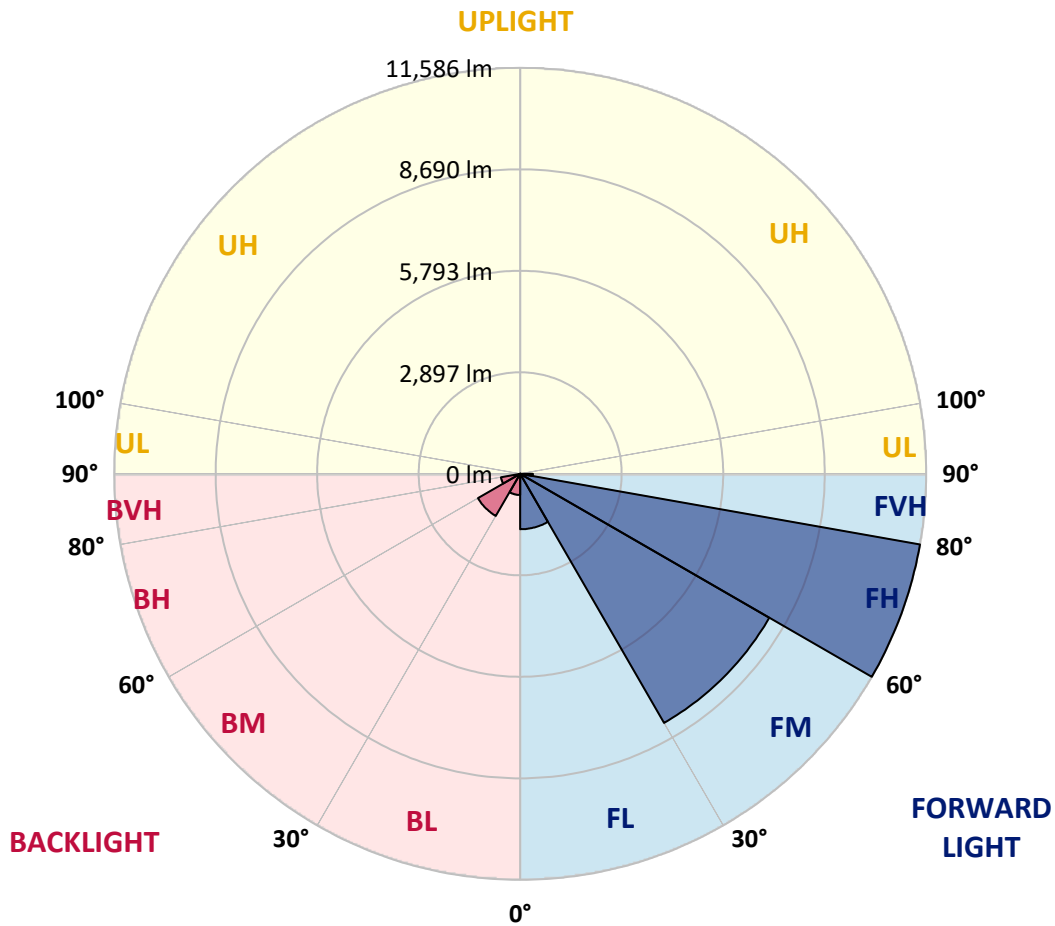
CATALOG NUMBER: GALN-SB8A-827-U-T4W-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1582.6	6.5			
FM (30°-60°)	8208.5	33.8			
FH (60°-80°)	11586.1	47.7			G4/12000
FVH (80°-90°)	366.0	1.5			G3/500
BL (0°-30°)	604.7	2.5	B2/1000		
BM (30°-60°)	1388.4	5.7	B2/2500		
BH (60°-80°)	556.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short



REPORT NUMBER: P954992

CATALOG NUMBER: GALN-SB8A-827-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2661.7	2661.7	2661.7	2661.7	2661.7	2661.7	2661.7	2661.7	2661.7	2661.7
2.5°	2907.1	2912.1	2908.8	2888.9	2855.7	2837.5	2827.5	2794.3	2772.8	2734.6
5°	3174.1	3194.0	3182.4	3142.6	3079.6	3034.8	3021.5	2953.6	2892.2	2820.9
7.5°	3457.7	3467.6	3446.1	3394.7	3310.1	3233.8	3222.2	3127.7	3029.8	2920.4
10°	3703.1	3714.7	3681.6	3606.9	3510.8	3416.2	3399.7	3295.2	3179.1	3044.8
12.5°	3908.8	3920.4	3877.3	3787.7	3681.6	3583.7	3567.1	3457.7	3330.0	3180.7
15°	4064.7	4086.2	4028.2	3932.0	3817.6	3719.7	3711.4	3603.6	3479.3	3313.4
17.5°	4155.9	4177.4	4122.7	4006.6	3908.8	3825.9	3815.9	3726.3	3610.3	3451.1
20°	4170.8	4190.7	4132.6	4031.5	3950.2	3883.9	3878.9	3814.2	3729.7	3577.1
22.5°	4126.0	4150.9	4097.8	4016.6	3960.2	3925.4	3918.7	3882.2	3834.1	3704.8
25°	4079.6	4099.5	4059.7	3988.4	3958.5	3955.2	3960.2	3953.5	3943.6	3834.1
27.5°	4076.3	4097.8	4053.0	3985.1	3968.5	4003.3	4008.3	4039.8	4048.1	3951.9
30°	4104.5	4119.4	4076.3	4005.0	3996.7	4076.3	4077.9	4134.3	4147.6	4051.4
32.5°	4165.8	4182.4	4139.3	4034.8	4023.2	4134.3	4139.3	4213.9	4235.5	4157.5
35°	4310.1	4330.0	4280.2	4117.7	4076.3	4189.0	4204.0	4291.9	4335.0	4270.3
37.5°	4670.0	4611.9	4543.9	4285.2	4197.3	4275.3	4300.1	4403.0	4479.2	4404.6
40°	5563.8	5381.4	5169.1	4570.5	4409.6	4459.3	4479.2	4582.1	4686.5	4613.6
42.5°	6905.4	6689.9	6348.2	5227.2	4729.7	4754.5	4769.5	4859.0	5006.6	4948.6
45°	8101.1	8023.2	7674.9	6348.2	5328.3	5205.6	5223.9	5270.3	5487.5	5466.0
47.5°	9019.9	8975.1	8706.4	7635.1	6339.9	5757.8	5809.3	5830.8	6144.2	6220.5
50°	9726.3	9709.7	9469.3	8779.4	7661.7	6572.1	6590.3	6543.9	7013.2	7202.3
52.5°	10393.0	10449.4	10271.9	9842.4	9072.9	7638.4	7635.1	7416.2	8049.7	8335.0
55°	10995.0	11014.9	11033.1	10927.0	10492.5	8852.4	8820.9	8462.6	9252.0	9547.2
57.5°	11560.5	11568.8	11731.3	11948.5	11970.1	10155.8	10097.8	9668.3	10565.5	10776.1
60°	11940.2	11978.4	12321.7	12925.3	13189.0	11500.8	11469.3	11031.5	11902.1	11999.9
62.5°	11393.0	11625.2	12490.8	13688.2	14339.9	12991.6	12976.7	12565.4	13308.4	13228.8
65°	9222.2	9615.2	11137.6	14203.9	15469.2	14656.6	14678.2	14240.4	14752.8	14494.1
67.5°	6451.0	6865.6	8666.6	14245.4	16731.3	16611.9	16736.2	16049.7	16286.8	15706.4
70°	4461.0	4674.9	5847.4	13353.2	17714.7	19305.0	19301.7	18271.9	17812.5	16258.6
72.5°	3000.0	3111.1	3797.7	10593.6	16991.6	20905.4	20809.2	19970.1	18326.6	15205.6
75°	1265.3	1346.6	1757.9	5953.5	13442.7	19125.9	18865.6	17648.3	16283.5	11973.4
77.5°	401.3	436.2	693.2	2131.0	7404.6	14376.4	14101.1	11021.5	10913.7	6006.6
80°	190.7	222.2	389.7	855.7	2913.8	7819.2	7781.1	5000.0	4694.8	1621.9
82.5°	82.9	97.8	215.6	457.7	1303.5	2789.4	2845.8	1701.5	1408.0	615.3
85°	26.5	34.8	99.5	210.6	550.6	693.2	684.9	404.6	567.2	335.0
87.5°	0.0	0.0	33.2	48.1	56.4	39.8	44.8	34.8	157.5	92.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954992  
 CATALOG NUMBER: GALN-SB8A-827-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2661.7	0°	2661.7	2661.7	2661.7	2661.7	2661.7	2661.7	2661.7	2661.7	2661.7	2661.7
2694.8	2.5°	2674.9	2648.4	2602.0	2558.9	2520.7	2482.6	2459.4	2426.2	2422.9	2422.9
2738.0	5°	2693.2	2650.1	2567.2	2479.3	2378.1	2281.9	2185.7	2092.9	2063.0	2041.4
2807.6	7.5°	2746.3	2678.3	2547.3	2379.8	2187.4	1976.8	1829.2	1670.0	1608.6	1575.4
2900.5	10°	2822.5	2729.7	2530.7	2237.1	1925.4	1638.5	1427.9	1255.4	1189.0	1160.9
3001.6	12.5°	2907.1	2792.7	2500.8	2059.7	1638.5	1295.2	1089.5	1009.9	1000.0	1000.0
3122.7	15°	3008.3	2869.0	2449.4	1850.7	1338.3	1024.9	951.9	955.2	965.2	971.8
3240.4	17.5°	3112.8	2950.2	2368.1	1616.9	1073.0	922.1	923.7	928.7	937.0	943.6
3368.1	20°	3225.5	3031.5	2260.4	1368.2	920.4	892.2	897.2	902.2	908.8	912.1
3487.5	22.5°	3346.6	3107.8	2132.7	1124.4	869.0	867.3	869.0	874.0	882.3	882.3
3626.8	25°	3475.9	3192.4	1986.7	946.9	842.5	842.5	845.8	849.1	855.7	855.7
3761.2	27.5°	3608.6	3270.3	1832.5	854.1	819.2	817.6	817.6	822.5	825.9	827.5
3893.8	30°	3754.5	3361.5	1678.3	834.2	801.0	792.7	787.7	791.0	794.4	796.0
4033.1	32.5°	3903.8	3449.4	1540.6	842.5	782.7	767.8	751.2	747.9	747.9	754.6
4177.4	35°	4069.6	3545.6	1434.5	870.6	772.8	731.3	704.8	689.9	691.5	701.5
4349.9	37.5°	4268.6	3661.7	1356.5	895.5	766.2	689.9	646.8	628.5	616.9	628.5
4587.0	40°	4529.0	3832.5	1300.2	915.4	757.9	641.8	583.7	553.9	532.3	539.0
4955.2	42.5°	4912.1	4101.1	1278.6	917.1	739.6	585.4	519.1	479.3	447.8	449.4
5509.1	45°	5449.4	4525.7	1389.7	895.5	699.8	524.0	451.1	398.0	378.1	373.1
6336.6	47.5°	6185.7	5144.3	1646.8	850.7	641.8	464.3	384.7	340.0	325.0	316.7
7422.8	50°	7172.4	5938.6	1932.0	801.0	583.7	408.0	330.0	301.8	291.9	283.6
8711.4	52.5°	8316.7	6744.6	2165.8	751.2	525.7	358.2	295.2	278.6	270.3	263.7
9955.2	55°	9366.5	7300.1	2152.6	698.2	469.3	318.4	270.3	260.4	250.4	243.8
11026.5	57.5°	10019.9	7378.1	1774.5	640.1	404.6	286.9	247.1	240.5	228.9	220.6
11953.5	60°	10320.0	6933.6	1243.8	563.8	340.0	257.0	222.2	218.9	204.0	192.4
12830.8	62.5°	10374.7	6107.8	829.2	469.3	283.6	228.9	197.3	192.4	172.5	152.6
13543.9	65°	10152.5	4927.0	573.8	366.5	242.1	199.0	169.2	159.2	137.6	117.7
13713.0	67.5°	9449.4	3459.4	399.7	263.7	205.6	157.5	134.3	131.0	114.4	97.8
12850.7	70°	8160.8	1971.8	267.0	197.3	162.5	107.8	106.1	109.5	92.9	79.6
10499.1	72.5°	6257.0	902.2	165.8	144.3	111.1	73.0	84.6	86.2	71.3	59.7
6550.5	75°	3683.2	386.4	104.5	92.9	56.4	48.1	61.4	63.0	48.1	38.1
2394.7	77.5°	1253.7	145.9	66.3	54.7	28.2	26.5	39.8	39.8	26.5	14.9
480.9	80°	285.2	54.7	33.2	21.6	13.3	11.6	13.3	11.6	6.6	1.7
147.6	82.5°	81.3	21.6	13.3	8.3	5.0	5.0	1.7	0.0	0.0	0.0
51.4	85°	23.2	10.0	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0
18.2	87.5°	10.0	1.7	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>
2661.7
2431.2
2051.4
1580.4
1160.9
1000.0
971.8
943.6
913.8
885.6
857.4
829.2
799.3
759.5
706.5
625.2
535.7
442.8
366.5
311.8
281.9
262.0
240.5
218.9
189.1
142.6
111.1
92.9
73.0
53.1
33.2
11.6
0.0
0.0
0.0
0.0
0.0

F REPORT)