

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: P951064

Luminaire Tested: **GALN-SB5B-827-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951064  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5B-827-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

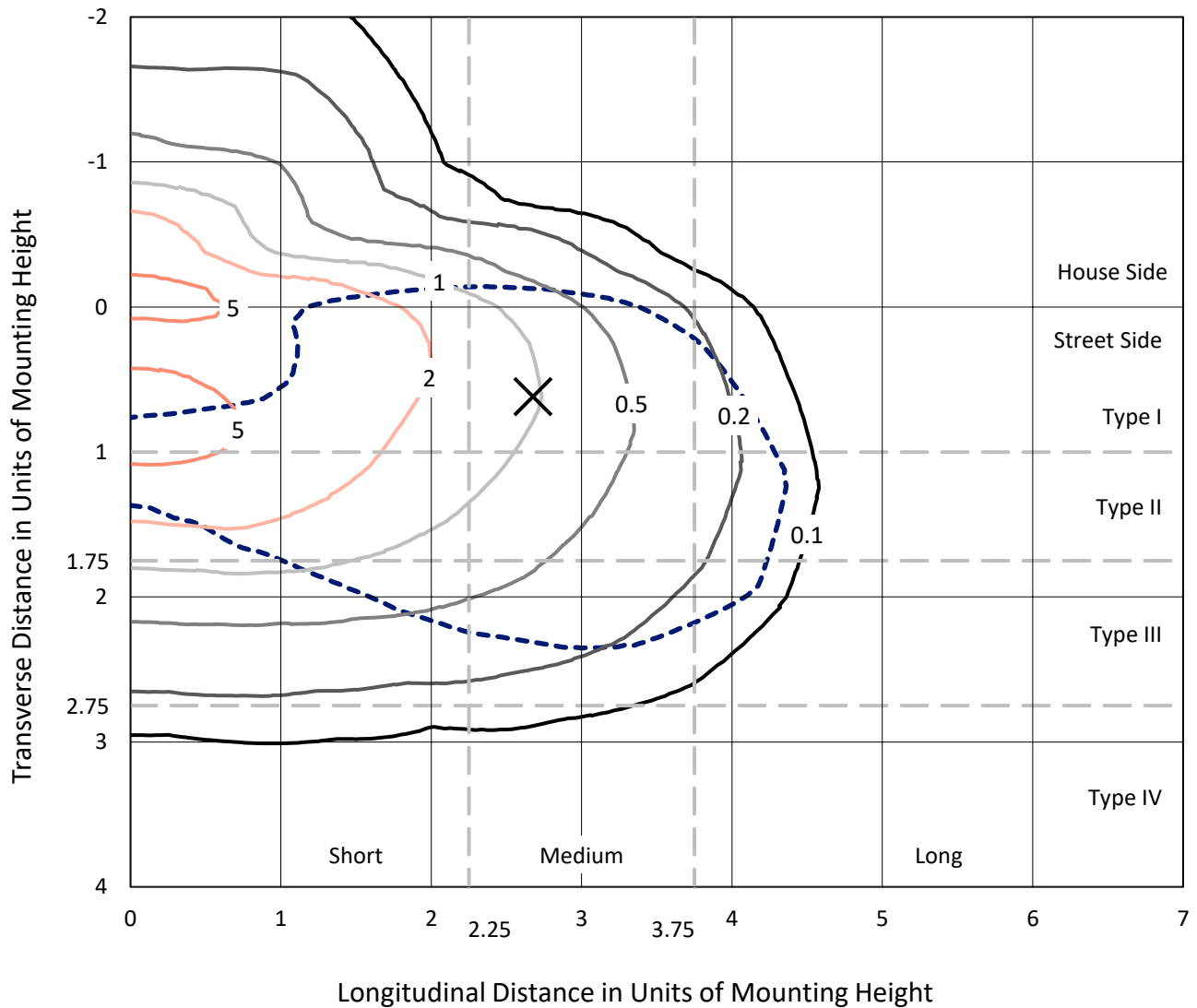
Lumens per Lamp: N/A  
Luminaire Lumens: 25393 lumens  
Efficiency: N/A  
Efficacy: 139.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): 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: P951064  
 CATALOG NUMBER: GALN-SB5B-827-U-T3R

### Iso-Footcandle Lines of Horizontal Illumination

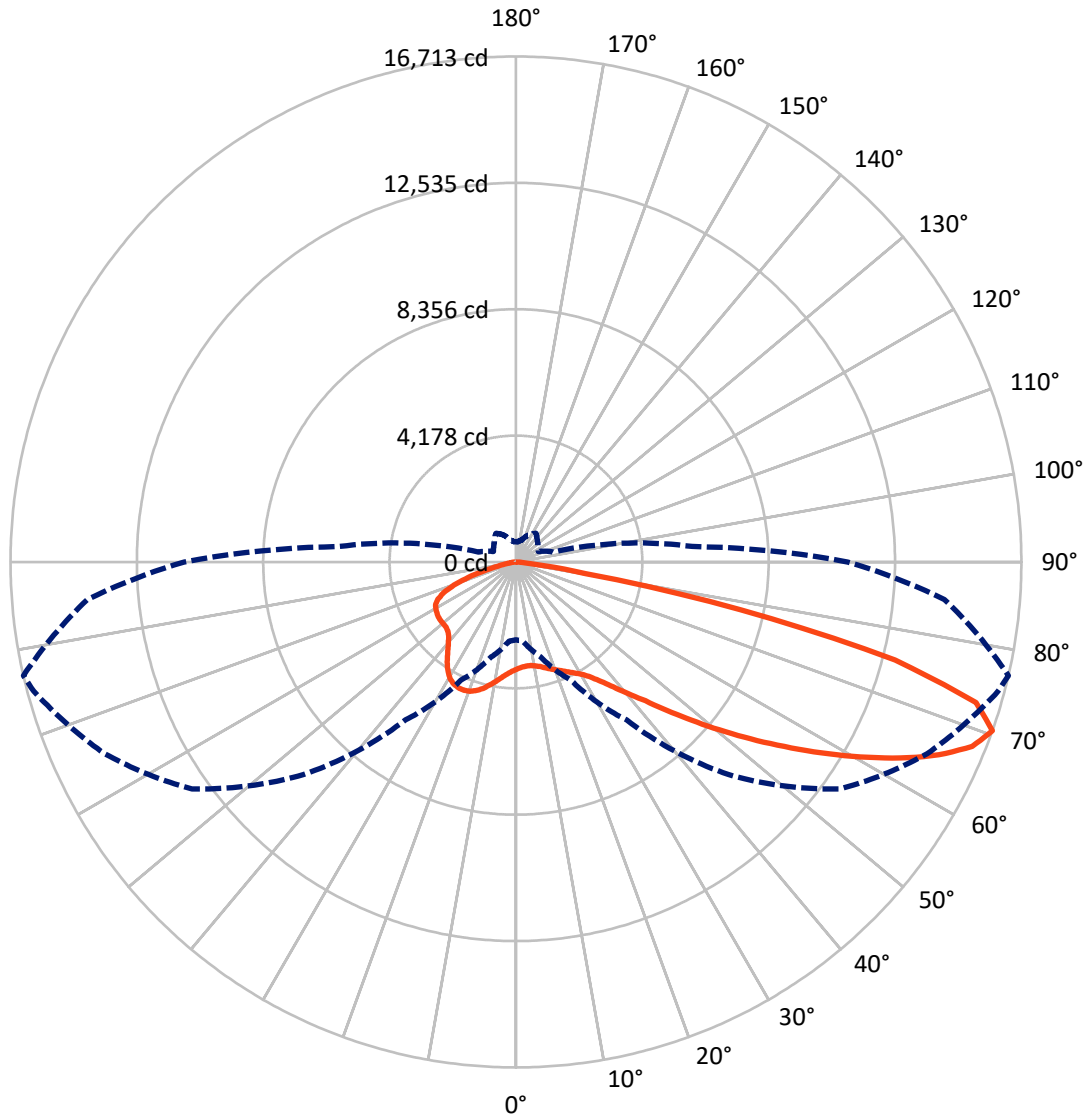
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type III - Medium - N/A

REPORT NUMBER: P951064  
CATALOG NUMBER: GALN-SB5B-827-U-T3R

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P951064

CATALOG NUMBER: GALN-SB5B-827-U-T3R

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5560.7	0.0	5560.7
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	19832.3	0.0	19832.3
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	25393.0	0.0	25393.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.9	1.3
10°-20°	975.1	3.8
20°-30°	1667.6	6.6
30°-40°	2681.6	10.6
40°-50°	4186.7	16.5
50°-60°	5592.5	22.0
60°-70°	5960.7	23.5
70°-80°	3669.4	14.5
80°-90°	321.5	1.3
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°	25393.0	100.0
0°-180°	25393.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P951064

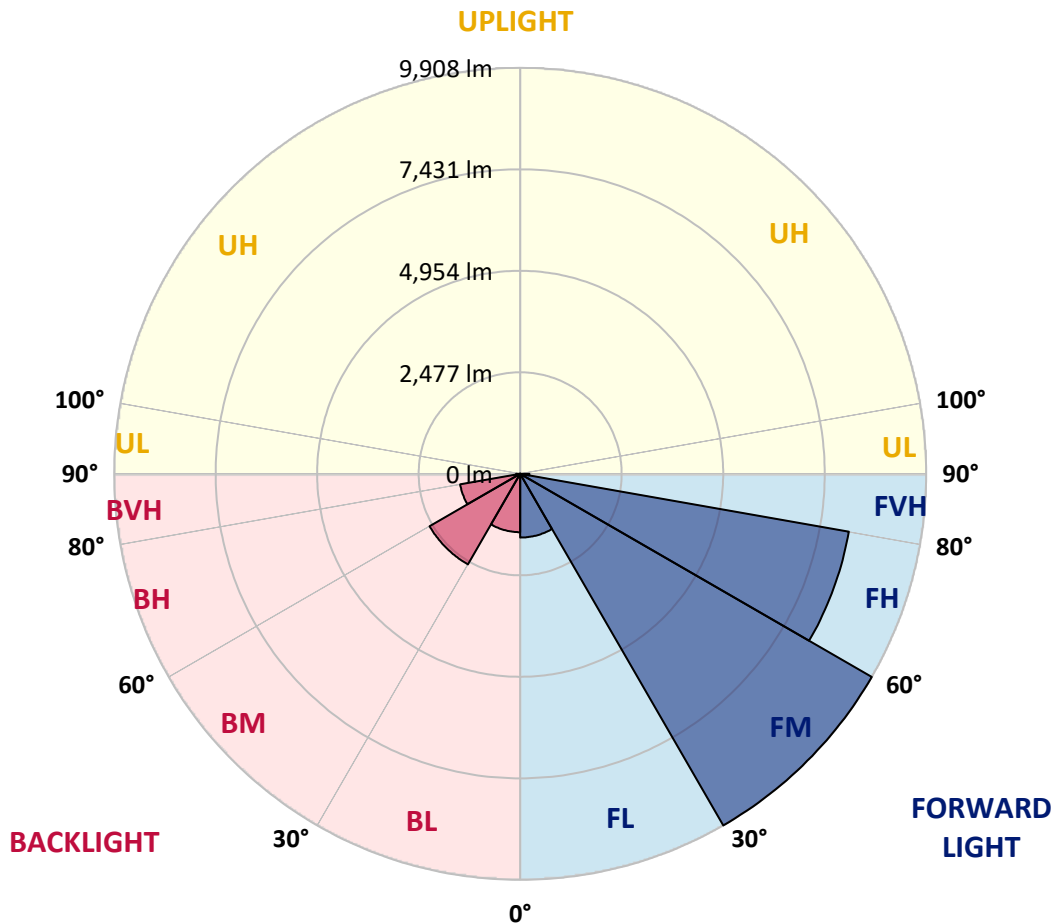
CATALOG NUMBER: GALN-SB5B-827-U-T3R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1555.7	6.1			
FM (30°-60°)	9907.8	39.0			
FH (60°-80°)	8144.0	32.1			G4/12000
FVH (80°-90°)	224.8	0.9			G2/225
BL (0°-30°)	1424.8	5.6	B3/2500		
BM (30°-60°)	2553.0	10.1	B3/5000		
BH (60°-80°)	1486.1	5.9	B3/2500		G3/2500
BVH (80°-90°)	96.7	0.4			G1/100
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: P951064  
 CATALOG NUMBER: GALN-SB5B-827-U-T3R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3542.6	3542.6	3542.6	3542.6	3542.6	3542.6	3542.6	3542.6	3542.6	3542.6
2.5°	3265.5	3264.2	3281.2	3286.4	3317.6	3339.7	3381.3	3425.5	3482.7	3489.2
5°	3077.0	3077.0	3096.5	3117.3	3157.6	3201.8	3265.5	3342.3	3441.1	3456.7
7.5°	2917.0	2927.4	2944.3	2984.6	3031.5	3095.2	3192.7	3302.0	3432.0	3456.7
10°	2788.3	2800.0	2820.8	2853.3	2923.5	3012.0	3139.4	3279.9	3454.1	3493.1
12.5°	2748.0	2759.7	2771.4	2796.1	2861.1	2965.1	3117.3	3290.3	3507.4	3546.5
15°	2841.6	2855.9	2846.8	2840.3	2874.1	2969.0	3127.7	3328.0	3573.8	3629.7
17.5°	3057.5	3062.7	3041.9	2980.7	2975.5	3026.3	3177.1	3380.0	3657.0	3718.1
20°	3406.0	3396.9	3354.0	3233.0	3164.1	3153.7	3261.6	3458.0	3742.8	3807.9
22.5°	3879.4	3869.0	3783.1	3592.0	3438.5	3337.1	3383.9	3559.5	3839.1	3911.9
25°	4469.8	4455.5	4329.4	4069.3	3831.3	3580.3	3550.4	3693.4	3957.4	4025.0
27.5°	5159.1	5147.4	5010.8	4667.5	4324.2	3913.2	3757.1	3850.8	4081.0	4157.7
30°	5900.4	5934.2	5692.3	5322.9	4888.6	4347.6	4035.4	4044.5	4240.9	4309.8
32.5°	6771.7	6830.2	6538.9	6070.7	5477.7	4819.6	4386.6	4315.1	4473.7	4530.9
35°	7635.2	7701.5	7459.7	6942.1	6259.3	5376.3	4753.3	4625.9	4783.2	4845.7
37.5°	8381.7	8470.1	8345.3	7895.3	7095.5	6047.3	5231.9	4991.3	5164.3	5242.3
40°	8970.8	9106.1	9097.0	8816.1	8081.3	6861.4	5839.2	5442.6	5637.7	5722.2
42.5°	9449.4	9566.5	9667.9	9653.6	9110.0	7786.1	6553.2	6029.1	6177.4	6274.9
45°	9779.7	9904.6	10123.1	10358.5	10099.7	8775.8	7371.2	6724.9	6860.1	7007.1
47.5°	10075.0	10216.7	10500.2	10873.5	10939.8	9769.3	8267.3	7535.1	7658.6	7810.8
50°	10101.0	10223.2	10662.8	11192.1	11536.7	10723.9	9229.6	8444.1	8559.9	8722.4
52.5°	9472.8	9665.3	10432.6	11183.0	11811.1	11522.4	10185.5	9389.6	9519.6	9714.7
55°	7353.0	7635.2	9757.6	10834.4	11713.6	12038.7	11094.5	10394.9	10561.3	10765.5
57.5°	6333.4	6457.0	7745.8	10199.8	11268.8	12172.7	11861.8	11410.6	11678.5	11902.2
60°	5692.3	5795.0	6557.1	9212.7	10683.6	11960.7	12454.9	12357.3	12820.3	13086.9
62.5°	5005.6	5103.2	5796.3	7692.4	9934.5	11608.2	12829.4	13231.3	13990.8	14282.1
65°	4324.2	4407.4	5071.9	6463.5	8982.5	11255.8	13023.2	13986.9	15074.1	15375.8
67.5°	3564.7	3633.6	4261.7	5453.0	7825.1	10773.3	13119.4	14581.2	16016.9	16275.7
70°	2572.4	2625.7	3274.7	4312.4	6372.4	9943.6	13080.4	15002.5	16505.9	16712.7
72.5°	1216.0	1264.1	2026.2	2800.0	4501.0	8328.4	12291.0	14668.3	16009.1	15906.4
75°	648.9	690.6	1163.9	1535.9	2377.3	5709.2	10058.0	12635.6	13443.2	12943.9
77.5°	439.6	472.1	720.5	922.1	1085.9	2710.2	6464.8	8748.4	8416.8	7592.3
80°	348.5	382.3	590.4	624.2	525.4	979.3	2671.2	4049.7	2909.2	2326.6
82.5°	267.9	305.6	496.8	452.6	286.1	401.9	777.7	1281.0	745.2	567.0
85°	163.9	204.2	390.1	288.7	161.3	183.4	264.0	356.3	227.6	189.9
87.5°	83.2	117.0	197.7	105.3	72.8	42.9	70.2	70.2	59.8	52.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951064  
 CATALOG NUMBER: GALN-SB5B-827-U-T3R

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3542.6	0°	3542.6	3542.6	3542.6	3542.6	3542.6	3542.6	3542.6	3542.6	3542.6	3542.6
3524.3	2.5°	3555.6	3581.6	3625.8	3667.4	3699.9	3731.1	3762.3	3779.2	3784.4	3805.3
3543.9	5°	3597.2	3645.3	3731.1	3811.8	3862.5	3893.7	3915.8	3928.8	3931.4	3937.9
3597.2	7.5°	3673.9	3750.6	3870.3	3950.9	3988.6	3986.0	3976.9	3944.4	3931.4	3919.7
3675.2	10°	3781.8	3883.3	4030.2	4086.2	4062.8	4000.3	3919.7	3824.8	3780.5	3737.6
3781.8	12.5°	3915.8	4044.5	4188.9	4186.3	4070.6	3910.6	3723.3	3577.7	3485.3	3419.0
3913.2	15°	4078.4	4226.6	4337.2	4248.7	3995.1	3707.7	3433.3	3243.4	3160.2	3087.4
4045.8	17.5°	4246.1	4404.8	4455.5	4229.2	3805.3	3407.3	3096.5	2946.9	2865.0	2826.0
4188.9	20°	4410.0	4567.3	4525.7	4117.4	3516.5	3066.6	2789.6	2707.6	2690.7	2699.8
4328.1	22.5°	4583.0	4723.4	4540.0	3901.5	3148.5	2718.0	2565.9	2568.5	2606.2	2633.5
4473.7	25°	4759.8	4854.8	4502.3	3589.4	2753.2	2461.8	2424.1	2465.7	2539.9	2593.2
4637.6	27.5°	4930.2	4971.8	4420.4	3203.1	2413.7	2278.5	2285.0	2370.8	2482.6	2556.8
4836.6	30°	5122.7	5075.8	4263.0	2768.8	2178.3	2121.1	2175.7	2275.9	2387.7	2454.0
5087.5	32.5°	5339.8	5165.6	4013.3	2366.9	2011.9	1995.0	2084.7	2149.7	2199.1	2218.6
5420.5	35°	5610.3	5291.7	3693.4	2084.7	1862.3	1902.6	1988.5	1955.9	1936.4	1926.0
5867.8	37.5°	5961.5	5462.1	3318.9	1901.3	1741.4	1836.3	1871.4	1770.0	1693.2	1655.5
6410.2	40°	6384.1	5711.8	2958.6	1759.6	1664.6	1779.1	1718.0	1595.7	1498.2	1444.9
7020.1	42.5°	6853.6	5973.2	2655.6	1652.9	1621.7	1732.3	1604.8	1459.2	1301.8	1284.9
7747.1	45°	7346.5	6242.4	2448.8	1571.0	1600.9	1691.9	1539.8	1304.4	1192.6	1261.5
8476.6	47.5°	7839.4	6489.5	2324.0	1509.9	1590.5	1646.4	1482.6	1218.6	1139.2	1239.4
9258.2	50°	8388.2	6710.6	2268.1	1465.7	1578.8	1628.2	1396.7	1196.5	1083.3	1149.6
10067.2	52.5°	8933.1	6882.2	2226.5	1421.4	1561.9	1613.9	1355.1	1170.4	1015.7	1019.6
10881.3	55°	9476.7	6994.1	2180.9	1362.9	1524.2	1582.7	1351.2	1141.8	965.0	946.8
11742.2	57.5°	10056.7	7057.8	2125.0	1297.9	1459.2	1503.4	1347.3	1119.7	949.4	919.5
12622.6	60°	10647.2	7151.4	2052.2	1218.6	1372.0	1408.4	1338.2	1111.9	940.3	889.5
13452.3	62.5°	11176.5	7183.9	1965.1	1143.1	1260.2	1314.8	1318.7	1105.4	915.6	828.4
14141.6	65°	11523.7	7043.5	1812.9	1057.3	1139.2	1218.6	1281.0	1083.3	871.3	784.2
14482.3	67.5°	11509.4	6642.9	1574.9	946.8	1022.2	1111.9	1226.4	1045.6	818.0	729.6
14224.8	70°	10973.6	5852.2	1273.2	818.0	893.4	997.5	1156.1	989.7	754.3	669.8
12648.6	72.5°	9411.7	4580.4	924.7	667.2	743.9	879.1	1065.1	922.1	689.3	616.4
9348.0	75°	6723.6	2898.8	626.8	512.4	578.7	745.2	952.0	842.7	629.4	619.0
4681.8	77.5°	3434.6	1385.0	414.9	374.5	403.2	587.8	799.8	753.0	638.5	511.1
1331.7	80°	1117.1	511.1	261.4	254.9	267.9	391.4	619.0	617.7	483.8	347.2
322.5	82.5°	356.3	219.8	170.4	163.9	157.4	245.8	431.8	489.0	326.4	219.8
115.7	85°	141.8	131.4	100.1	92.3	66.3	115.7	226.3	325.1	243.2	158.7
29.9	87.5°	52.0	52.0	27.3	19.5	14.3	39.0	61.1	97.5	139.2	81.9
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>
3542.6
3817.0
3948.3
3922.3
3724.6
3403.4
3079.6
2837.7
2695.9
2640.0
2607.5
2575.0
2469.6
2229.1
1936.4
1664.6
1448.8
1301.8
1297.9
1286.2
1199.1
1046.9
959.8
923.4
893.4
828.4
784.2
733.5
677.6
612.5
583.9
455.2
306.9
218.5
162.6
80.6
0.0

F REPORT)