

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: P953561

Luminaire Tested: **GALN-SB7A-827-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-827-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28112 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

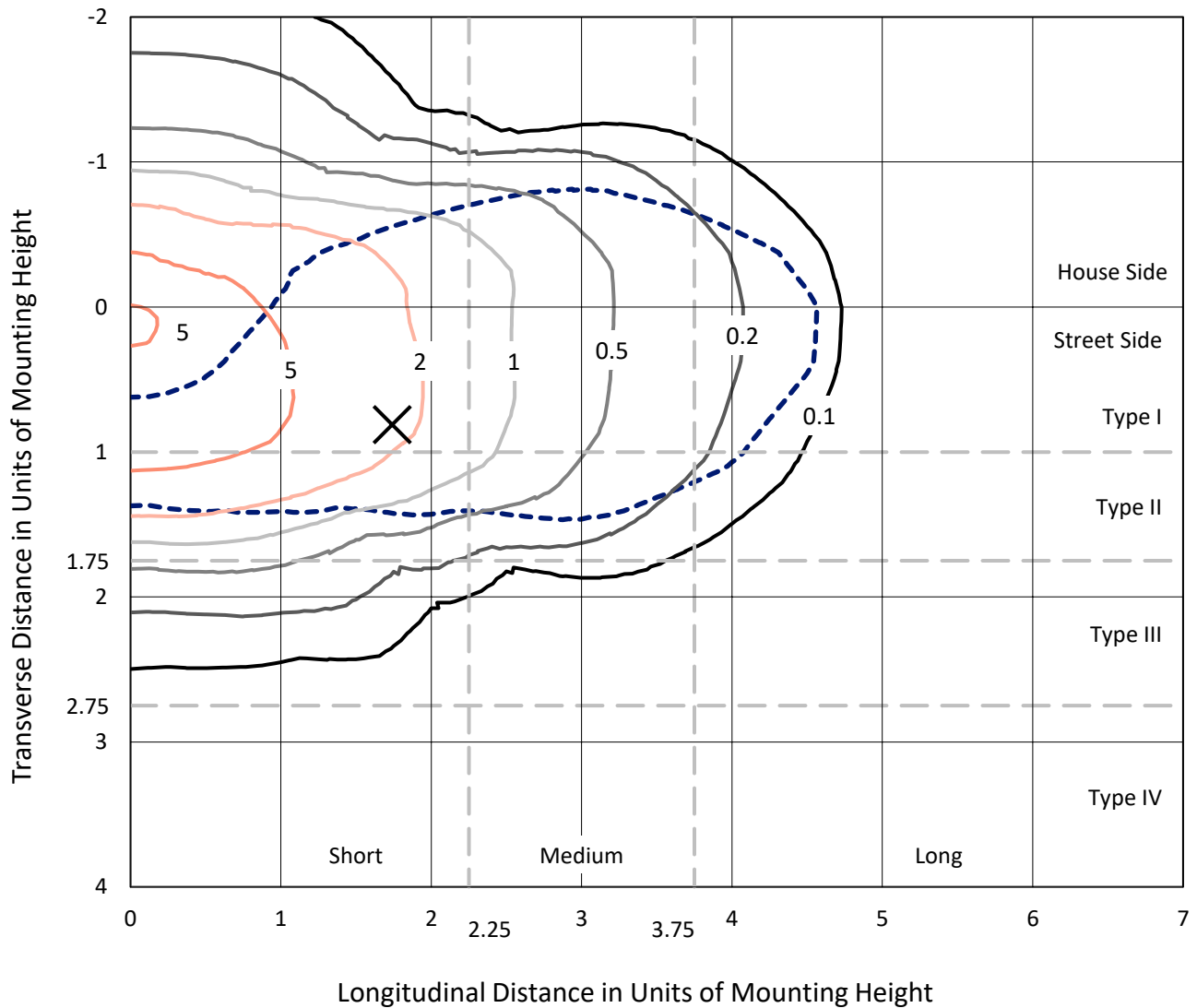
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P953561
 CATALOG NUMBER: GALN-SB7A-827-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

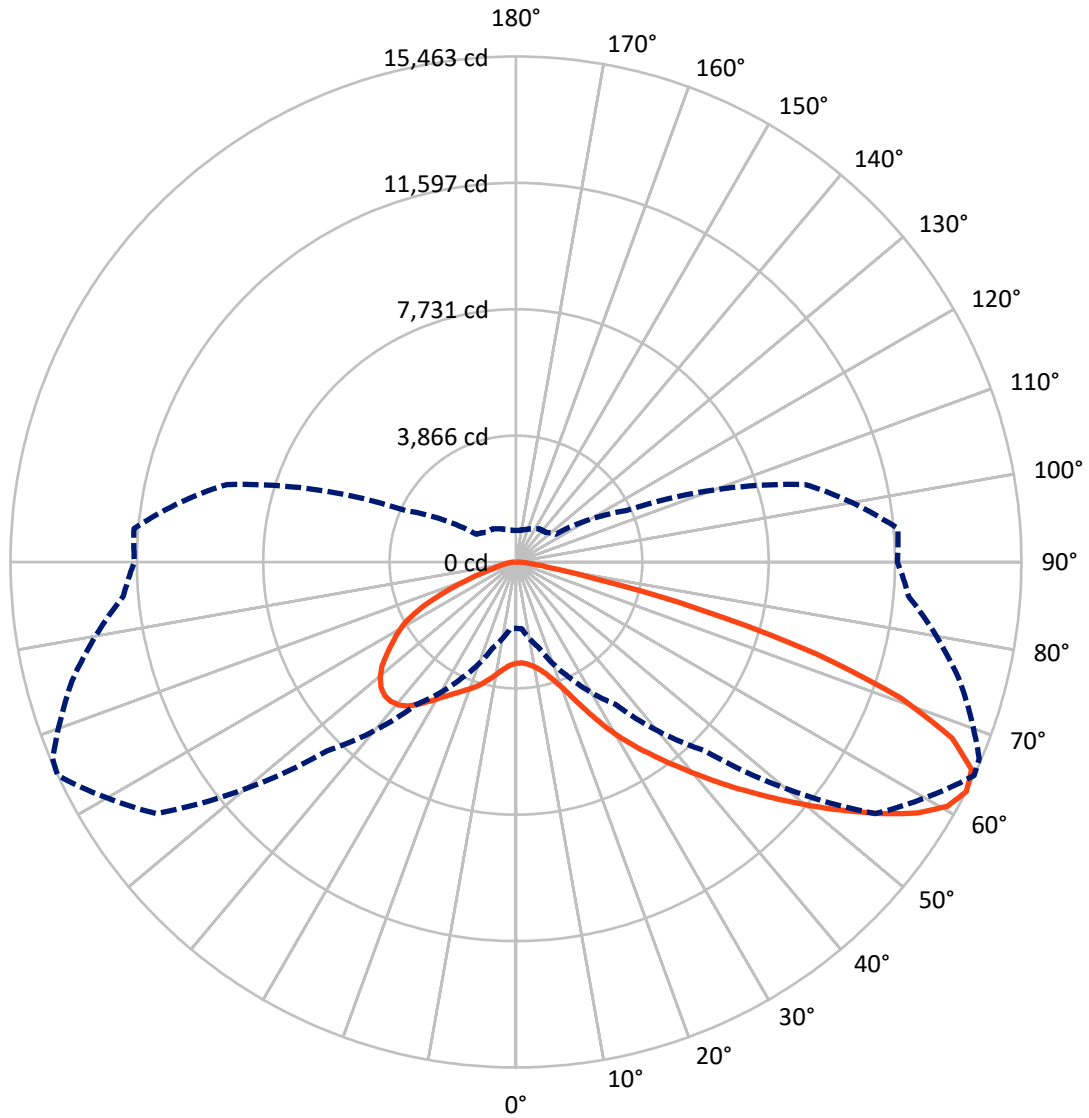
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

REPORT NUMBER: P953561
CATALOG NUMBER: GALN-SB7A-827-U-T2U

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P953561
 CATALOG NUMBER: GALN-SB7A-827-U-T2U

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8870.9	0.0	8870.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	19241.1	0.0	19241.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	28112.0	0.0	28112.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.9	1.1
10°-20°	1047.3	3.7
20°-30°	2123.6	7.6
30°-40°	3674.8	13.1
40°-50°	5561.1	19.8
50°-60°	6520.1	23.2
60°-70°	5466.3	19.4
70°-80°	3017.9	10.7
80°-90°	392.0	1.4
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°	28112.0	100.0
0°-180°	28112.0	100.0

Coefficient of Utilization

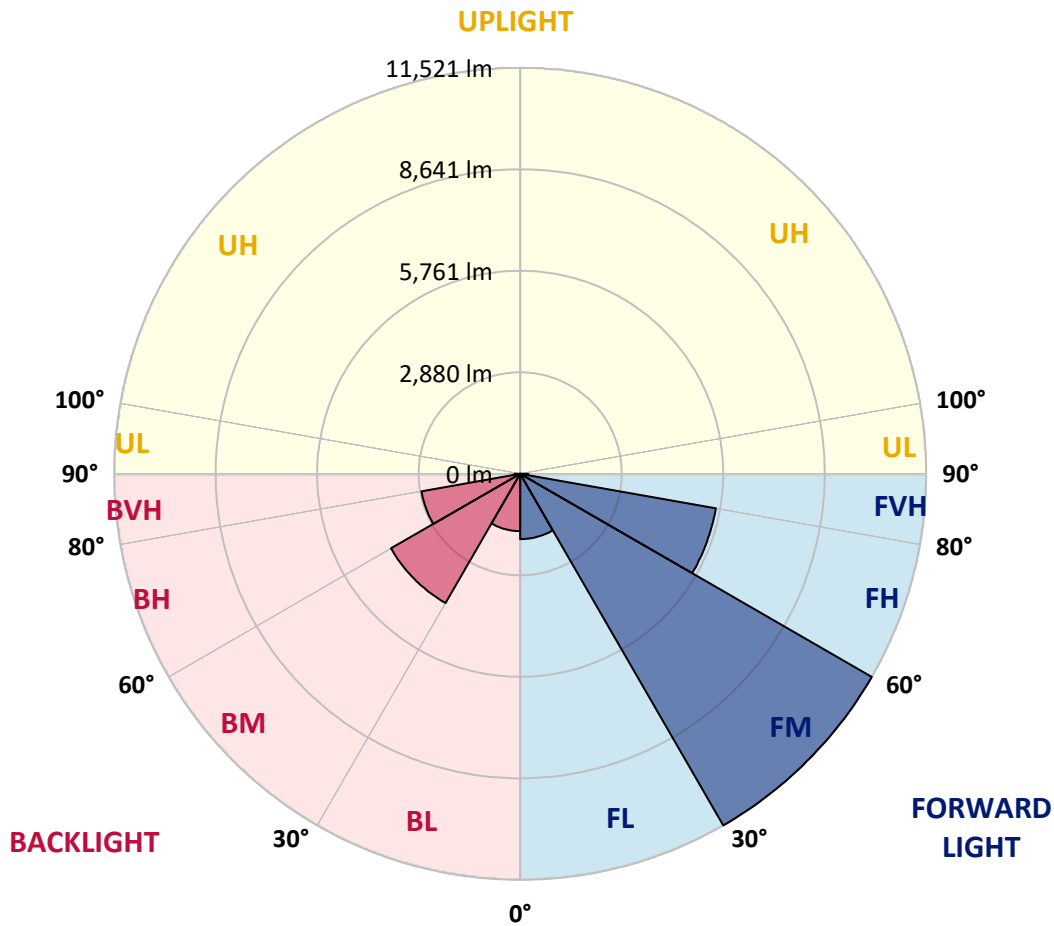


REPORT NUMBER: P953561
 CATALOG NUMBER: GALN-SB7A-827-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1853.0	6.6			
FM (30°-60°)	11521.2	41.0			
FH (60°-80°)	5638.4	20.1			G3/7500
FVH (80°-90°)	228.5	0.8			G3/500
BL (0°-30°)	1626.8	5.8	B3/2500		
BM (30°-60°)	4234.9	15.1	B3/5000		
BH (60°-80°)	2845.7	10.1	B4/5000		G4/5000
BVH (80°-90°)	163.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short



REPORT NUMBER: P953561
 CATALOG NUMBER: GALN-SB7A-827-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	3097.8	3097.8	3097.8	3097.8	3097.8	3097.8	3097.8	3097.8	3097.8	3097.8
2.5°	3077.4	3068.7	3075.9	3075.9	3078.9	3077.4	3087.6	3090.5	3094.9	3103.7
5°	3046.8	3045.3	3058.4	3070.1	3081.8	3092.0	3105.1	3124.1	3127.0	3137.2
7.5°	3036.6	3027.8	3048.2	3062.8	3090.5	3115.3	3150.3	3182.4	3195.5	3199.9
10°	3115.3	3100.7	3119.7	3128.4	3151.8	3176.6	3217.4	3268.5	3283.0	3300.5
12.5°	3249.5	3233.5	3261.2	3274.3	3296.2	3318.1	3345.8	3395.4	3402.6	3434.7
15°	3433.3	3414.3	3431.8	3447.9	3484.3	3504.7	3532.4	3580.6	3580.6	3605.4
17.5°	3682.7	3657.9	3671.0	3676.8	3700.2	3730.8	3777.5	3819.8	3841.6	3832.9
20°	4054.6	4024.0	4024.0	3994.8	3986.0	4010.8	4072.1	4130.4	4153.8	4108.6
22.5°	4613.2	4569.4	4544.6	4445.5	4406.1	4409.0	4470.3	4541.7	4560.7	4480.5
25°	5323.5	5254.9	5221.4	5075.5	4986.6	4909.3	4957.4	5049.3	5075.5	4976.3
27.5°	6033.7	6038.1	6006.0	5831.0	5683.7	5542.2	5517.4	5613.7	5641.4	5529.1
30°	7029.9	6926.3	6865.1	6655.1	6445.0	6246.7	6144.6	6184.0	6191.3	6057.1
32.5°	7888.9	7862.7	7731.4	7547.7	7277.8	6967.2	6796.5	6733.8	6722.2	6531.1
35°	8867.6	8853.0	8714.4	8495.7	8204.0	7772.3	7464.5	7285.1	7270.5	7002.2
37.5°	9862.3	9862.3	9726.6	9487.4	9185.5	8645.9	8177.7	7893.3	7846.6	7496.6
40°	10655.7	10607.6	10632.4	10531.7	10186.1	9612.9	8969.7	8556.9	8494.2	8074.2
42.5°	11106.4	11090.3	11239.1	11351.4	11209.9	10751.9	9841.9	9276.0	9188.5	8710.1
45°	11207.0	11189.5	11454.9	11866.2	12064.6	11876.4	10789.9	10032.9	9926.4	9375.1
47.5°	10975.1	10940.1	11329.5	11978.5	12614.4	12945.5	11816.6	10854.0	10699.4	10022.7
50°	10277.9	10244.4	10833.6	11695.6	12799.7	13671.8	12930.9	11724.8	11488.5	10716.9
52.5°	8762.6	8778.6	9701.8	10886.1	12556.1	14124.0	13890.6	12642.1	12357.7	11427.2
55°	6825.7	6860.7	7995.4	9299.3	11581.8	14055.4	14545.5	13587.2	13304.3	12095.2
57.5°	4887.4	5042.0	6105.2	7396.0	9710.6	12968.8	14688.4	14485.7	14211.5	12824.5
60°	3167.8	3195.5	4289.4	5590.4	7394.5	11037.8	14398.2	15166.8	14952.4	13568.3
62.5°	2030.2	2049.2	2715.7	3910.2	5322.0	8166.1	13421.0	15462.8	15397.2	14059.8
65°	1492.0	1477.4	1824.6	2584.4	3585.0	5036.1	11523.5	15319.9	15449.7	14367.5
67.5°	1245.5	1225.1	1395.8	1789.6	2641.3	2860.1	8526.3	14390.9	14866.3	14332.5
70°	1134.7	1117.2	1220.8	1328.7	2060.8	1915.0	4298.2	12510.9	13243.0	13934.4
72.5°	961.1	930.5	1072.0	1179.9	1602.9	1468.7	1776.4	9610.0	10502.5	12658.2
75°	745.3	724.9	845.9	1038.4	1204.7	1146.4	1123.0	5835.4	6809.7	9789.3
77.5°	590.7	563.0	673.8	809.5	1083.7	864.9	818.2	2513.0	3478.5	6249.6
80°	444.8	420.0	511.9	640.3	832.8	651.9	529.4	1025.3	1311.2	3166.4
82.5°	316.5	294.6	357.3	469.6	560.1	584.9	325.2	574.6	646.1	1220.8
85°	202.7	189.6	239.2	294.6	355.9	376.3	198.4	300.4	329.6	503.2
87.5°	110.8	90.4	128.3	137.1	164.8	150.2	94.8	109.4	118.1	182.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P953561
 CATALOG NUMBER: GALN-SB7A-827-U-T2U

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3097.8	0°	3097.8	3097.8	3097.8	3097.8	3097.8	3097.8	3097.8	3097.8	3097.8	3097.8
3103.7	2.5°	3109.5	3113.9	3128.4	3132.8	3143.0	3156.2	3164.9	3173.7	3173.7	3182.4
3150.3	5°	3151.8	3162.0	3192.6	3208.7	3234.9	3261.2	3277.2	3296.2	3307.8	3313.7
3224.7	7.5°	3233.5	3249.5	3293.3	3321.0	3366.2	3402.6	3427.4	3453.7	3459.5	3475.6
3328.3	10°	3344.3	3363.3	3412.9	3465.4	3519.3	3564.5	3587.9	3606.8	3614.1	3617.0
3461.0	12.5°	3471.2	3498.9	3563.1	3627.3	3684.1	3723.5	3729.3	3725.0	3704.5	3687.0
3624.3	15°	3627.3	3652.0	3723.5	3793.5	3848.9	3856.2	3819.8	3796.4	3771.6	3767.3
3806.6	17.5°	3813.9	3827.1	3892.7	3961.2	3965.6	3940.8	3886.9	3865.0	3841.6	3825.6
4044.4	20°	4031.3	4026.9	4073.5	4102.7	4072.1	3996.2	3914.6	3878.1	3854.8	3835.8
4336.1	22.5°	4290.9	4257.3	4251.5	4244.2	4162.5	4003.5	3892.7	3846.0	3809.6	3783.3
4743.0	25°	4668.6	4540.3	4451.3	4401.7	4217.9	3964.2	3822.7	3719.1	3650.6	3605.4
5240.3	27.5°	5141.2	4925.3	4700.7	4579.6	4217.9	3883.9	3653.5	3485.8	3373.5	3326.8
5721.6	30°	5591.8	5365.8	5034.7	4794.0	4207.7	3752.7	3380.8	3147.4	3016.1	2969.5
6132.9	32.5°	5976.9	5730.4	5389.1	5028.9	4182.9	3539.7	3042.4	2784.2	2657.4	2601.9
6539.8	35°	6334.2	6071.7	5745.0	5287.0	4117.3	3227.6	2670.5	2473.6	2332.1	2243.1
6954.1	37.5°	6700.3	6388.2	6081.9	5520.4	3999.2	2863.0	2384.6	2216.9	2050.6	1931.0
7394.5	40°	7098.4	6725.1	6442.1	5658.9	3805.2	2515.9	2162.9	2009.8	1833.3	1706.4
7902.1	42.5°	7563.7	7129.1	6843.2	5730.4	3539.7	2269.4	2018.5	1868.3	1702.1	1598.5
8446.1	45°	8049.4	7573.9	7209.3	5728.9	3243.7	2154.2	1971.9	1823.1	1639.3	1531.4
9004.7	47.5°	8558.4	8039.2	7525.8	5635.6	2987.0	2170.2	1945.6	1725.4	1522.7	1417.6
9569.1	50°	9068.9	8548.2	7832.1	5460.6	2877.6	2135.2	1847.9	1588.3	1349.1	1254.3
10098.5	52.5°	9574.9	9089.3	8096.0	5211.2	2766.7	2005.4	1722.5	1410.4	1277.6	1212.0
10645.5	55°	10084.0	9624.5	8383.4	4848.0	2489.6	1853.7	1512.4	1343.3	1220.8	1161.0
11180.7	57.5°	10594.4	10242.9	8656.1	4484.8	2141.1	1667.0	1397.2	1261.6	1163.9	1112.8
11628.5	60°	11125.3	10950.3	8937.6	4150.8	1796.9	1427.9	1312.6	1196.0	1096.8	1039.9
12058.7	62.5°	11672.2	11729.1	9157.8	3720.6	1480.4	1282.0	1236.8	1117.2	1020.9	967.0
12414.6	65°	12223.6	12480.2	9302.2	3124.1	1200.3	1143.5	1155.1	1031.1	933.4	886.8
12675.7	67.5°	12639.2	13021.3	9261.4	2364.2	984.5	1012.2	1053.0	940.7	848.8	812.4
12633.4	70°	12685.9	12957.2	8858.8	1618.9	824.0	883.8	939.3	851.8	757.0	730.7
12038.3	72.5°	12064.6	12082.1	7737.3	1057.4	697.2	775.9	819.7	761.3	669.4	643.2
10531.7	75°	10435.5	9992.1	5680.8	697.2	583.4	666.5	707.4	666.5	577.6	583.4
7880.2	77.5°	7906.4	7076.6	3449.3	495.9	487.1	560.1	615.5	586.3	510.5	573.2
3962.7	80°	4073.5	3828.5	1538.7	370.5	385.0	447.8	506.1	468.2	404.0	385.0
885.3	82.5°	933.4	1085.1	606.7	265.4	278.6	322.3	386.5	351.5	290.2	245.0
369.0	85°	326.7	357.3	268.4	166.3	163.4	201.3	262.5	234.8	196.9	157.5
156.1	87.5°	103.6	135.6	100.6	67.1	70.0	90.4	121.1	110.8	91.9	59.8
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>
3097.8
3182.4
3316.6
3469.7
3609.7
3687.0
3767.3
3827.1
3837.3
3792.1
3622.9
3350.1
2997.2
2629.6
2272.3
1963.1
1731.2
1618.9
1548.9
1432.2
1260.1
1212.0
1155.1
1104.1
1035.5
965.5
885.3
813.8
732.2
641.7
563.0
504.6
351.5
242.1
166.3
62.7
0.0

F REPORT)