

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: P957039

Luminaire Tested: **GALN-SB9C-735-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-735-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66667 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

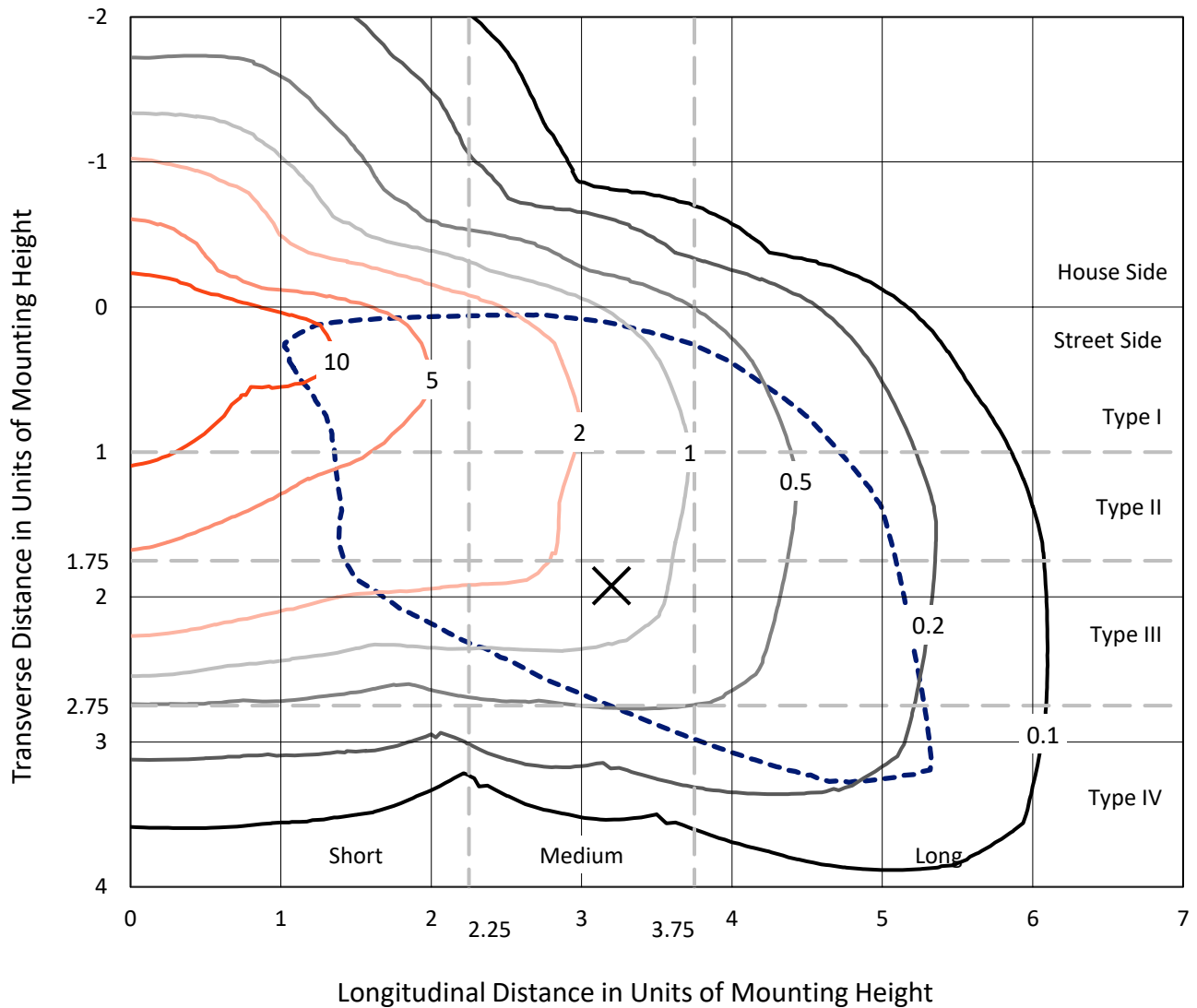
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P957039
 CATALOG NUMBER: GALN-SB9C-735-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

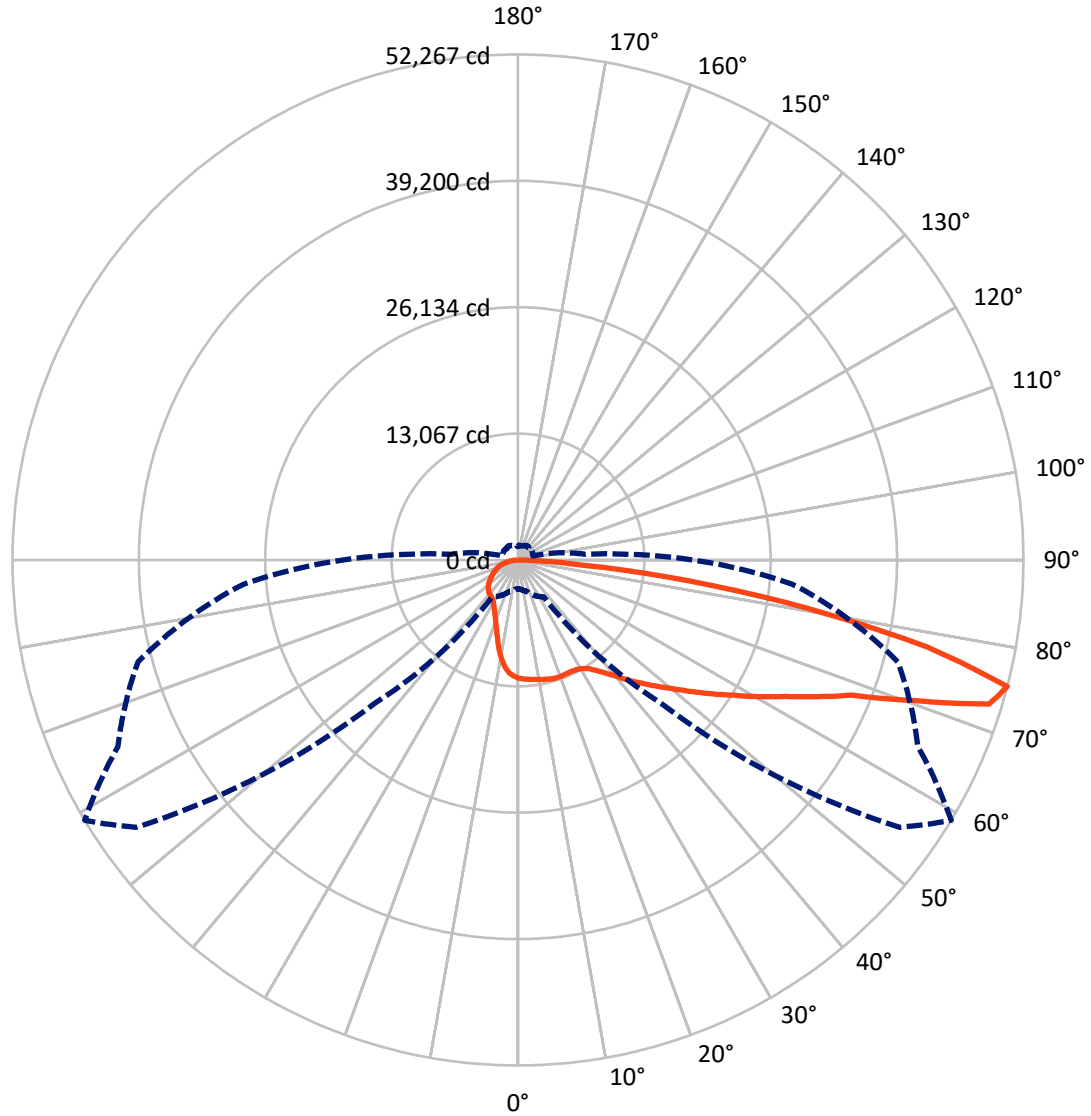
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.6 fc
 Type IV - Medium - N/A

REPORT NUMBER: P957039
CATALOG NUMBER: GALN-SB9C-735-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P957039
 CATALOG NUMBER: GALN-SB9C-735-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12503.8	0.0	12503.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	54163.2	0.0	54163.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	66667.0	0.0	66667.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1097.2	1.6
10°-20°	2804.5	4.2
20°-30°	4259.9	6.4
30°-40°	6332.2	9.5
40°-50°	9417.0	14.1
50°-60°	12782.5	19.2
60°-70°	15605.3	23.4
70°-80°	12246.9	18.4
80°-90°	2121.5	3.2
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°	66667.0	100.0
0°-180°	66667.0	100.0

Coefficient of Utilization



REPORT NUMBER: P957039

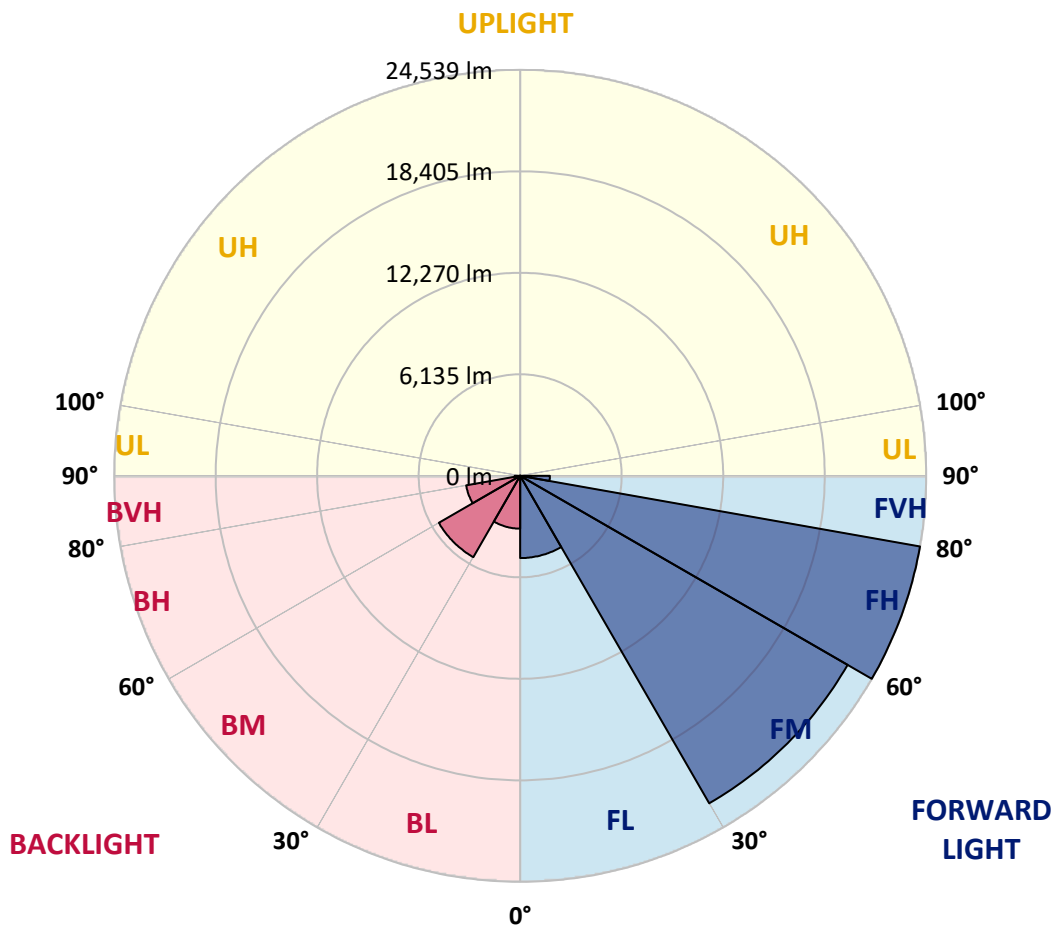
CATALOG NUMBER: GALN-SB9C-735-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4970.7	7.5			
FM (30°-60°)	22856.2	34.3			
FH (60°-80°)	24539.5	36.8			G5
FVH (80°-90°)	1796.7	2.7			G5
BL (0°-30°)	3190.8	4.8	B4/5000		
BM (30°-60°)	5675.5	8.5	B4/8500		
BH (60°-80°)	3312.8	5.0	B4/5000		G4/5000
BVH (80°-90°)	324.7	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



REPORT NUMBER: P957039
 CATALOG NUMBER: GALN-SB9C-735-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	12236.6	12236.6	12236.6	12236.6	12236.6	12236.6	12236.6	12236.6	12236.6	12236.6
2.5°	12340.6	12297.5	12340.6	12322.7	12315.5	12301.1	12304.7	12329.8	12315.5	12333.4
5°	12258.1	12233.0	12276.0	12265.3	12311.9	12319.1	12365.7	12394.4	12412.3	12415.9
7.5°	12121.8	12096.7	12157.7	12207.9	12308.3	12337.0	12433.8	12480.5	12505.6	12548.6
10°	11623.3	11612.6	11763.2	11953.3	12190.0	12337.0	12484.0	12562.9	12602.4	12717.1
12.5°	10741.1	10755.4	10952.7	11318.5	11791.9	12265.3	12541.4	12656.2	12717.1	12860.6
15°	9898.3	9894.7	10109.9	10500.8	11164.3	11949.7	12570.1	12767.4	12871.4	13083.0
17.5°	9410.5	9396.2	9546.8	9844.5	10461.3	11465.5	12498.4	12828.3	13050.7	13316.1
20°	9320.9	9292.2	9371.1	9518.1	9955.7	10934.7	12311.9	12828.3	13194.1	13538.4
22.5°	9647.2	9600.6	9568.3	9550.4	9744.1	10497.2	12100.3	12785.3	13405.7	13857.6
25°	10303.5	10231.8	10066.8	9905.5	9848.1	10300.0	11913.8	12774.5	13721.3	14288.0
27.5°	11365.1	11275.4	10941.9	10554.6	10206.7	10400.4	11831.3	12839.1	14069.2	14743.4
30°	12681.3	12584.5	12164.9	11569.5	10945.5	10773.4	11935.3	13029.2	14513.9	15349.5
32.5°	13861.2	13753.6	13395.0	12788.9	11946.1	11418.9	12265.3	13391.4	15213.2	16192.3
35°	14908.4	14782.9	14460.1	13900.6	13172.6	12326.2	12860.6	14033.3	16206.7	17562.3
37.5°	15934.1	15787.1	15435.6	14843.8	14334.6	13534.8	13681.9	14858.2	17526.4	19226.3
40°	17081.7	16870.1	16443.4	15858.8	15363.9	14951.4	14761.4	15869.5	18867.7	21084.1
42.5°	18193.5	17992.6	17483.4	16984.9	16364.5	16246.1	16013.0	17053.0	20334.5	23124.7
45°	19391.3	19151.0	18534.2	17903.0	17512.1	17106.8	17225.2	18236.5	21772.6	25204.8
47.5°	20513.8	20244.9	19516.8	18813.9	18598.7	17831.3	18336.9	19538.4	23268.1	27313.5
50°	21119.9	20854.5	20248.5	19613.7	19445.1	18724.3	19541.9	20969.3	24835.4	29415.1
52.5°	21625.6	21338.7	20546.1	20194.7	20144.5	19696.2	21026.7	22604.7	26402.6	31272.9
55°	22163.6	21844.4	20833.0	20517.4	20747.0	20786.4	22787.6	24458.8	28059.5	33084.0
57.5°	22784.0	22378.7	21109.2	20790.0	21335.1	22063.1	24810.3	26381.1	29687.7	34762.4
60°	23368.6	22959.7	21640.0	21223.9	21969.9	23544.3	27130.6	28708.6	31531.1	36257.9
62.5°	23483.3	23146.2	22063.1	22059.6	22830.6	25272.9	29877.8	31057.7	33141.3	37735.4
65°	21496.5	21284.9	20643.0	22027.3	24064.3	27761.8	32936.9	34063.0	35189.1	39026.5
67.5°	16360.9	16389.6	16342.9	19014.8	23067.3	31337.4	37366.0	37280.0	37717.5	40475.4
70°	7481.1	7649.7	8747.1	13126.0	18480.4	31749.8	44689.3	43574.0	40891.4	42351.0
72.5°	4041.8	4170.9	4619.2	6358.6	11110.5	28228.1	50162.1	50954.7	45112.5	43613.4
75°	2965.9	3037.6	3349.6	4041.8	4665.8	20980.1	48200.4	52267.3	45639.7	40669.1
77.5°	2219.9	2252.2	2506.8	3202.6	2388.5	11060.3	38513.7	43287.1	39069.5	33413.9
80°	1610.3	1646.1	1836.2	2402.8	1674.8	4045.4	26445.6	30383.4	26757.7	21299.3
82.5°	1111.8	1126.1	1208.6	1635.4	1169.1	1570.8	15005.2	17816.9	14937.1	7473.9
85°	670.6	688.6	724.4	954.0	663.5	746.0	6476.9	6699.3	4465.0	1786.0
87.5°	276.1	294.1	322.8	401.7	261.8	208.0	1068.7	1341.3	835.6	523.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P957039
 CATALOG NUMBER: GALN-SB9C-735-U-SL3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
12236.6	0°	12236.6	12236.6	12236.6	12236.6	12236.6	12236.6	12236.6	12236.6	12236.6	12236.6
12272.4	2.5°	12254.5	12229.4	12161.3	12068.0	11981.9	11874.4	11827.7	11788.3	11752.4	11684.3
12369.3	5°	12329.8	12261.7	12078.8	11842.1	11573.1	11279.0	10992.1	10794.9	10626.3	10500.8
12480.5	7.5°	12444.6	12315.5	11981.9	11497.8	10880.9	10249.7	9679.5	9274.3	8969.4	8858.3
12638.2	10°	12562.9	12408.7	11827.7	10974.2	9909.0	8937.1	8180.4	7764.4	7520.5	7441.6
12824.7	12.5°	12702.8	12476.9	11587.5	10246.2	8822.4	7757.2	7097.4	6853.5	6728.0	6684.9
13054.3	15°	12907.2	12534.2	11225.2	9335.2	7785.9	6896.5	6469.8	6301.2	6236.6	6233.1
13291.0	17.5°	13061.4	12545.0	10662.2	8359.7	6989.8	6376.5	6025.0	5960.5	6003.5	6068.1
13524.1	20°	13233.6	12448.2	9923.4	7470.3	6430.3	5921.0	5774.0	5817.0	5921.0	6014.3
13832.5	22.5°	13355.5	12272.4	9030.4	6778.2	5946.1	5659.2	5652.1	5741.7	5799.1	5845.7
14194.7	25°	13463.1	11974.8	8083.6	6197.2	5548.1	5501.4	5580.3	5551.6	5512.2	5551.6
14556.9	27.5°	13542.0	11505.0	7237.2	5687.9	5268.3	5393.8	5347.2	5282.7	5279.1	5300.6
14983.7	30°	13516.9	10877.4	6541.5	5203.8	5071.1	5193.0	5081.8	5071.1	5060.3	5071.1
15625.7	32.5°	13516.9	10163.7	6007.1	4870.2	4945.6	4898.9	4888.2	4863.1	4820.0	4816.4
16497.1	35°	13592.2	9450.0	5548.1	4690.9	4841.6	4730.4	4737.6	4676.6	4586.9	4543.9
17651.9	37.5°	13746.4	8876.2	5092.6	4604.9	4658.7	4655.1	4626.4	4522.4	4364.6	4228.3
19093.7	40°	14119.4	8707.6	4780.6	4565.4	4572.6	4615.6	4540.3	4339.5	3980.8	3758.5
20556.9	42.5°	14704.0	8990.9	4712.4	4468.6	4515.2	4558.2	4411.2	3945.0	3690.3	3557.6
22091.8	45°	15446.4	9485.9	4859.5	4328.7	4378.9	4454.2	4016.7	3794.3	3679.6	3683.2
23612.4	47.5°	16386.0	10005.9	5132.0	4206.8	4181.7	4224.7	3754.9	3618.6	3460.8	3500.3
25072.1	50°	17472.6	10533.1	5390.3	4041.8	3962.9	3823.0	3586.3	3457.2	3256.4	3163.1
26481.5	52.5°	18648.9	11042.3	5494.3	3841.0	3726.2	3564.8	3471.6	3313.8	3069.9	2915.7
27812.0	55°	19764.3	11505.0	5379.5	3600.7	3489.5	3364.0	3349.6	3252.8	2991.0	2775.8
28995.5	57.5°	20818.7	11892.3	5092.6	3356.8	3249.2	3173.9	3270.7	3224.1	2894.2	2618.0
30114.5	60°	21711.7	12157.7	4676.6	3109.4	3034.0	2994.6	3141.6	3127.3	2757.9	2449.5
31118.6	62.5°	22421.8	12261.7	4217.5	2872.7	2854.7	2783.0	2962.3	2962.3	2585.7	2284.5
32000.9	65°	22977.7	12161.3	3751.3	2639.5	2675.4	2567.8	2743.5	2722.0	2402.8	2137.5
33015.8	67.5°	23469.0	11831.3	3234.9	2410.0	2492.5	2356.2	2514.0	2463.8	2202.0	1990.4
33894.5	70°	23687.8	11063.8	2646.7	2180.5	2280.9	2148.2	2284.5	2191.3	1976.1	1832.6
32929.7	72.5°	21930.4	9195.4	2083.7	1940.2	2026.3	1918.7	2037.0	1929.4	1732.2	1667.6
28436.1	75°	18143.3	6900.1	1603.1	1678.4	1743.0	1660.5	1739.4	1660.5	1481.2	1527.8
21005.2	77.5°	13176.2	4658.7	1226.5	1402.3	1430.9	1387.9	1456.1	1366.4	1205.0	1194.2
10468.5	80°	6552.2	2729.2	961.1	1108.2	1097.4	1068.7	1147.6	1104.6	968.3	1025.7
2826.0	82.5°	1897.2	1169.1	699.3	778.2	756.7	763.9	821.3	842.8	1262.4	1251.6
878.7	85°	595.3	459.1	419.6	433.9	412.4	423.2	484.2	961.1	889.4	520.0
272.6	87.5°	154.2	157.8	104.0	111.2	114.8	136.3	154.2	584.6	279.7	182.9
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>
12236.6
11652.0
10396.8
8664.6
7319.7
6695.7
6247.4
6093.2
6046.6
5870.8
5576.8
5336.5
5110.5
4863.1
4586.9
4274.9
3787.2
3557.6
3701.1
3600.7
3188.3
2912.1
2775.8
2603.7
2438.7
2273.7
2123.1
1976.1
1803.9
1613.9
<i>1395.1</i>
1140.5
1014.9
1280.3
563.1
193.7
0.0

F REPORT)