

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: P957492

Luminaire Tested: **GALN-SB9D-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957492
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-827-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 80440 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U0 - G5

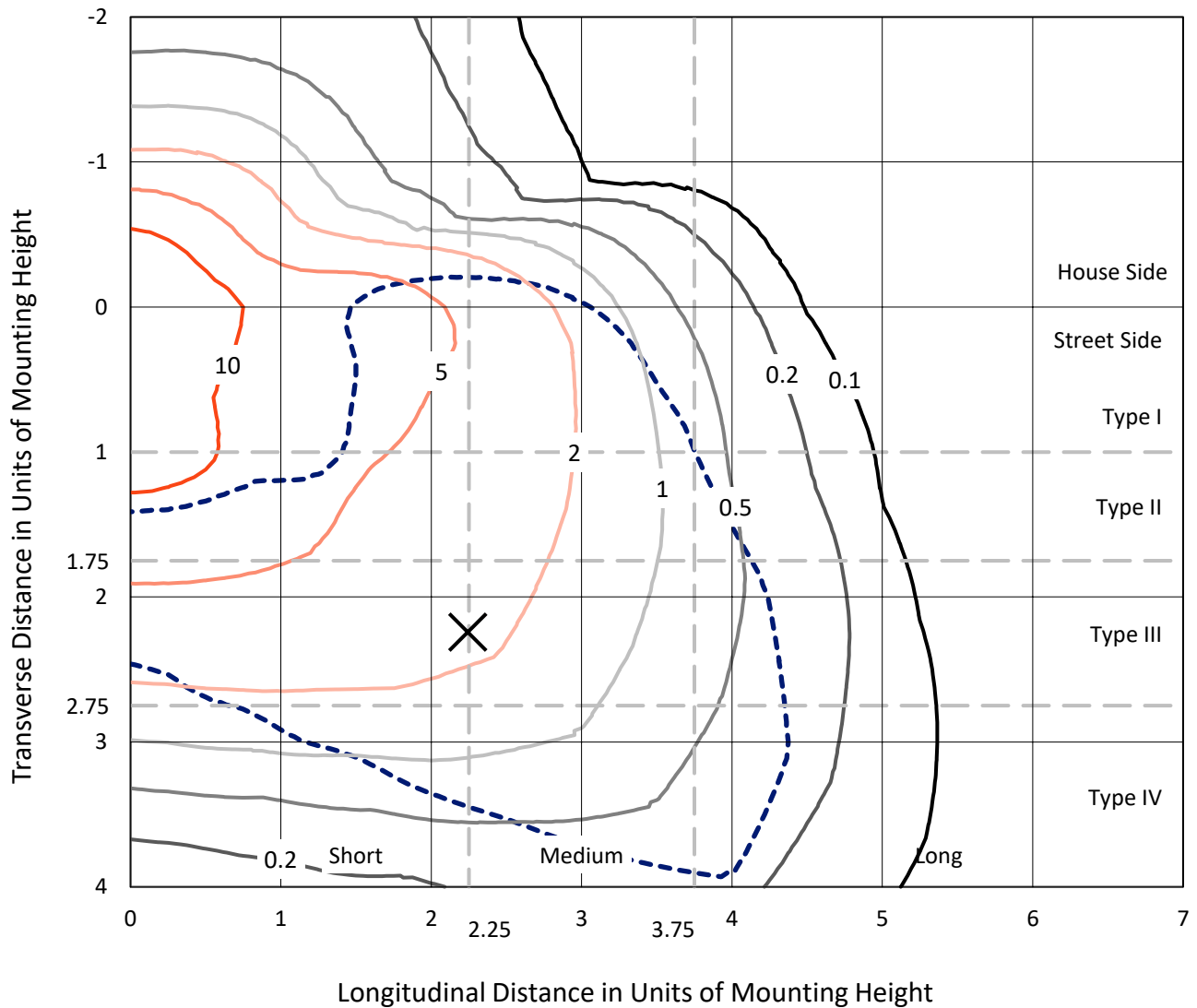
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P957492
 CATALOG NUMBER: GALN-SB9D-827-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

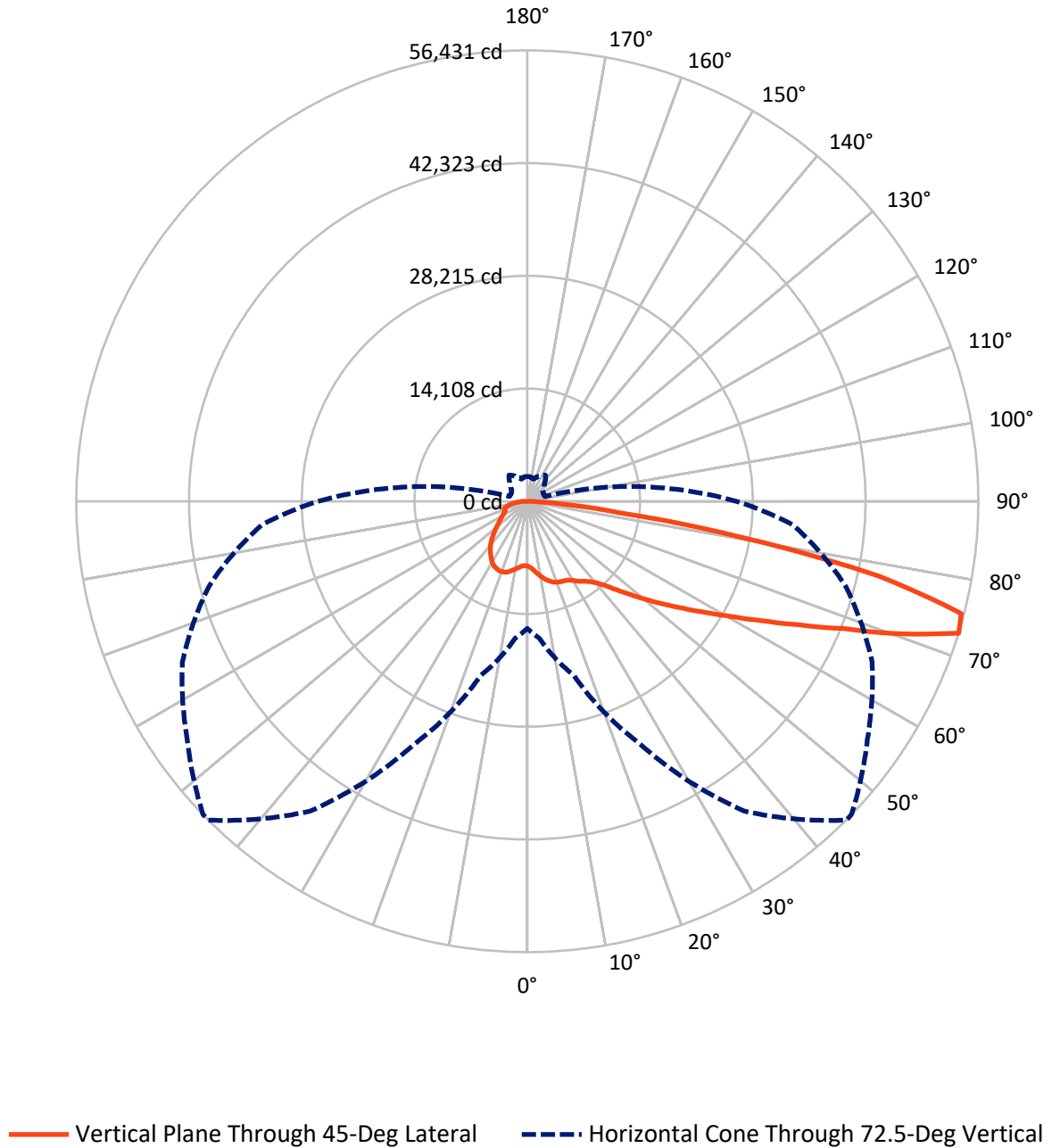
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P957492
CATALOG NUMBER: GALN-SB9D-827-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P957492

CATALOG NUMBER: GALN-SB9D-827-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18184.7	0.0	18184.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	62255.3	0.0	62255.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	80440.0	0.0	80440.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	825.9	1.0
10°-20°	2753.8	3.4
20°-30°	4790.3	6.0
30°-40°	6867.2	8.5
40°-50°	9669.4	12.0
50°-60°	14810.7	18.4
60°-70°	21455.4	26.7
70°-80°	17133.4	21.3
80°-90°	2133.9	2.7
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°	80440.0	100.0
0°-180°	80440.0	100.0

Coefficient of Utilization



REPORT NUMBER: P957492

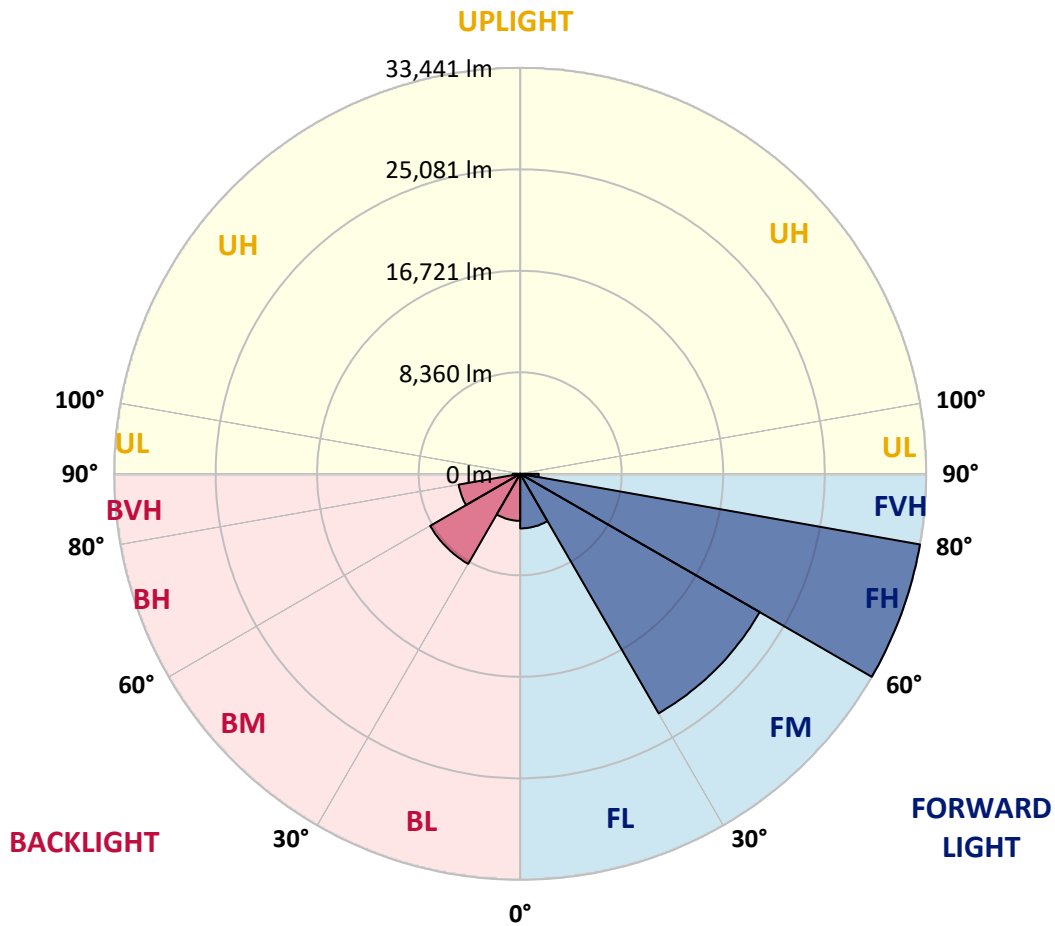
CATALOG NUMBER: GALN-SB9D-827-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4498.3	5.6			
FM (30°-60°)	22784.8	28.3			
FH (60°-80°)	33441.3	41.6			G5
FVH (80°-90°)	1530.9	1.9			G5
BL (0°-30°)	3871.7	4.8	B4/5000		
BM (30°-60°)	8562.4	10.6	B5		
BH (60°-80°)	5147.6	6.4	B5		G5
BVH (80°-90°)	603.0	0.7			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Short



REPORT NUMBER: P957492

CATALOG NUMBER: GALN-SB9D-827-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	8114.8	8114.8	8114.8	8114.8	8114.8	8114.8	8114.8	8114.8	8114.8	8114.8
2.5°	8432.6	8487.7	8436.9	8390.3	8369.1	8314.0	8309.8	8275.9	8254.7	8195.3
5°	9021.7	9093.7	9008.9	8915.7	8831.0	8695.4	8678.4	8581.0	8470.8	8343.7
7.5°	9686.9	9750.5	9653.0	9513.2	9364.9	9140.3	9136.1	8958.1	8784.4	8568.2
10°	10267.5	10352.2	10220.9	10030.2	9843.7	9589.5	9559.8	9356.4	9136.1	8856.4
12.5°	10780.2	10839.5	10712.4	10479.4	10263.2	10009.0	9970.9	9746.3	9500.5	9182.7
15°	11187.0	11263.3	11093.8	10843.8	10615.0	10364.9	10331.0	10127.6	9881.9	9547.1
17.5°	11454.0	11517.6	11343.8	11064.1	10843.8	10636.1	10610.7	10441.2	10225.1	9886.1
20°	11555.7	11623.5	11441.3	11157.4	10954.0	10792.9	10780.2	10657.3	10509.0	10199.7
22.5°	11657.4	11721.0	11483.7	11187.0	11009.0	10907.3	10903.1	10822.6	10763.3	10509.0
25°	12068.4	12085.4	11767.6	11339.6	11085.3	10996.3	10992.1	10987.9	11013.3	10814.1
27.5°	12424.4	12420.1	12148.9	11746.4	11352.3	11165.8	11161.6	11204.0	11284.5	11119.2
30°	12945.6	12899.0	12576.9	12157.4	11797.2	11509.1	11483.7	11445.5	11509.1	11377.7
32.5°	14051.6	13903.3	13382.1	12636.3	12165.9	11945.5	11911.6	11674.3	11699.8	11619.3
35°	15636.4	15441.5	14746.5	13543.1	12623.5	12310.0	12293.0	11992.2	11941.3	11869.3
37.5°	17522.1	17280.6	16471.2	14856.7	13411.7	12733.7	12708.3	12437.1	12229.5	12153.2
40°	19416.3	19111.2	18441.6	16458.5	14572.8	13441.4	13360.9	12949.8	12712.5	12585.4
42.5°	21255.3	21001.1	20429.0	18255.2	16005.1	14475.3	14297.4	13593.9	13416.0	13297.3
45°	22882.6	22653.7	22234.2	20174.8	17683.1	15882.2	15708.4	14560.1	14505.0	14505.0
47.5°	24204.7	24153.8	23708.9	22132.5	19662.0	17484.0	17183.1	15903.4	16051.7	16280.5
50°	25670.8	25531.0	25056.4	24060.6	21988.4	19318.8	19073.0	17551.8	18106.9	18734.0
52.5°	27018.4	27094.6	26564.9	26069.2	24615.7	21365.5	20933.3	19496.8	20696.0	21734.2
55°	28404.0	28408.3	28259.9	28192.1	27370.1	23628.4	23153.8	21835.9	23742.8	25031.0
57.5°	29704.9	29713.4	29933.8	30531.3	30565.2	26238.7	25700.5	24708.9	27128.5	28442.2
60°	30866.0	30925.3	31527.1	32925.4	33374.6	29230.3	28721.8	28103.2	30628.7	31950.8
62.5°	31255.9	31472.0	32811.0	34798.4	36150.2	32900.0	32400.0	32031.3	34306.9	35535.8
65°	30594.8	31090.6	33679.7	36345.1	39006.3	37260.4	36764.6	36362.1	38129.1	39285.9
67.5°	28971.9	29611.7	33628.9	37968.1	42472.6	42506.5	42044.6	41099.6	42226.8	42671.7
70°	24696.2	25653.9	30666.9	38574.0	46451.6	49680.6	49235.6	46803.3	46316.0	44163.3
72.5°	15911.8	17200.1	22581.7	33586.5	47337.2	56430.9	56405.5	51951.9	47608.4	41264.9
75°	5805.4	6593.6	10492.1	21081.6	39735.1	56087.7	56252.9	51070.5	43459.9	31874.5
77.5°	2114.5	2313.7	3423.9	8102.1	24437.7	45002.3	45345.6	40828.4	30933.8	15996.6
80°	1110.2	1220.4	1754.3	3144.2	10470.9	26726.0	27264.1	24264.0	14538.9	4818.0
82.5°	614.4	665.3	983.1	1707.7	4716.3	11428.6	11750.6	9585.2	5114.7	2042.5
85°	330.5	351.7	461.9	932.3	2305.2	3962.1	4051.1	2864.6	2038.2	1199.2
87.5°	97.5	118.7	152.6	296.6	902.6	889.9	911.1	567.8	805.1	606.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P957492
 CATALOG NUMBER: GALN-SB9D-827-U-T4W

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8114.8	0°	8114.8	8114.8	8114.8	8114.8	8114.8	8114.8	8114.8	8114.8	8114.8	8114.8
8178.4	2.5°	8153.0	8140.3	8093.6	8072.5	8047.0	8042.8	8064.0	8068.2	8072.5	8076.7
8271.6	5°	8229.2	8186.9	8144.5	8119.1	8127.5	8131.8	8174.2	8203.8	8225.0	8242.0
8445.4	7.5°	8377.6	8343.7	8271.6	8267.4	8280.1	8318.2	8373.3	8441.1	8479.3	8508.9
8669.9	10°	8597.9	8534.3	8449.6	8462.3	8487.7	8542.8	8657.2	8712.3	8775.9	8831.0
8945.4	12.5°	8822.5	8767.4	8669.9	8678.4	8720.8	8818.3	8928.4	8996.2	9038.6	9081.0
9242.0	15°	9114.9	9017.4	8911.5	8911.5	8987.8	9093.7	9144.5	9199.6	9225.1	9271.7
9559.8	17.5°	9415.7	9288.6	9148.8	9140.3	9233.5	9284.4	9314.0	9322.5	9331.0	9381.8
9869.2	20°	9716.6	9576.8	9377.6	9360.7	9381.8	9373.4	9369.1	9360.7	9373.4	9436.9
10187.0	22.5°	10013.2	9852.2	9576.8	9500.5	9441.2	9360.7	9356.4	9352.2	9360.7	9424.2
10530.2	25°	10360.7	10165.8	9797.1	9568.3	9369.1	9259.0	9271.7	9275.9	9284.4	9335.2
10886.2	27.5°	10737.8	10521.7	10000.5	9547.1	9186.9	9110.6	9089.5	9102.2	9131.8	9212.3
11242.1	30°	11115.0	10860.7	10187.0	9462.4	8958.1	8852.2	8784.4	8814.0	8907.2	8987.8
11551.5	32.5°	11458.2	11204.0	10335.3	9275.9	8665.7	8500.4	8411.5	8449.6	8542.8	8572.5
11894.7	35°	11860.8	11572.6	10398.8	8979.3	8347.9	8093.6	7975.0	7919.9	7966.5	7936.9
12297.3	37.5°	12310.0	12009.1	10390.4	8589.4	7975.0	7682.6	7517.3	7309.7	7212.2	7110.5
12890.5	40°	12975.3	12543.0	10288.7	8119.1	7513.1	7246.1	6949.5	6597.8	6377.5	6178.3
13848.2	42.5°	13882.1	13284.6	10102.2	7602.1	6991.9	6741.9	6339.3	5928.3	5580.8	5250.3
15301.6	45°	15233.8	14255.0	9869.2	7051.2	6428.3	6182.5	5746.1	5284.2	4890.1	4466.3
17365.3	47.5°	17183.1	15560.1	9648.8	6424.1	5835.1	5610.5	5216.4	4788.4	4322.3	3911.2
20348.5	50°	19861.2	17433.1	9445.4	5813.9	5250.3	5080.8	4767.2	4330.7	3860.4	3529.8
23844.5	52.5°	23268.2	19979.9	9360.7	5224.8	4703.6	4640.1	4390.1	3983.3	3538.3	3258.6
27920.9	55°	27179.4	23026.6	9360.7	4661.3	4224.8	4246.0	4072.2	3695.1	3309.5	3059.5
32124.6	57.5°	31171.1	26111.5	9191.2	4140.0	3818.0	3907.0	3796.8	3466.3	3118.8	2860.3
36544.3	60°	34849.3	28696.4	8504.7	3665.4	3457.8	3597.6	3525.6	3241.7	2817.9	2601.8
40239.4	62.5°	37675.7	30154.1	7182.6	3288.3	3161.2	3322.2	3284.1	2945.1	2762.9	2673.9
43273.4	65°	39091.0	29916.8	5491.8	2953.5	2911.2	3161.2	3080.7	3068.0	2923.9	2822.2
44260.8	67.5°	38222.3	27874.3	3983.3	2707.8	2767.1	3012.9	3322.2	3373.1	3106.1	2906.9
41481.0	70°	34412.8	24179.2	2966.3	2474.7	2584.9	3017.1	3788.3	3529.8	3046.8	2813.7
33268.7	72.5°	26179.3	18030.6	2301.0	2228.9	2347.6	3038.3	3996.0	3457.8	2877.3	3110.3
20725.7	75°	14971.1	9898.8	1847.6	1928.1	2051.0	2839.1	3890.0	3271.4	2745.9	2856.1
8212.3	77.5°	5707.9	3805.3	1525.5	1631.4	1648.4	2478.9	3720.5	3258.6	2614.5	2551.0
2462.0	80°	1978.9	1487.4	1262.8	1296.7	1275.5	2203.5	3568.0	2834.9	2139.9	1915.4
1017.0	82.5°	809.4	741.6	1000.1	957.7	906.8	1712.0	2881.5	2317.9	1750.1	1546.7
491.6	85°	351.7	470.4	661.1	580.5	525.5	1186.5	2309.4	1962.0	1478.9	1275.5
161.0	87.5°	72.0	178.0	279.7	262.7	271.2	792.4	1639.9	1394.1	1046.7	783.9
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>
8114.8
8093.6
8250.4
8517.4
8818.3
9097.9
9288.6
9398.8
9462.4
9466.6
9403.0
9292.9
9076.7
8678.4
8030.1
7174.1
6191.0
5220.6
4415.5
3864.6
3508.7
3237.5
3034.1
2817.9
2567.9
2644.2
2788.3
2873.0
2775.6
3084.9
2856.1
2326.4
1851.8
1529.7
1271.3
614.4
0.0

F REPORT)