

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: P956501

Luminaire Tested: **GALN-SB9A-850-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956501
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-SB9A-850-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39605 lumens
Efficiency: N/A
Efficacy: 155.0 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

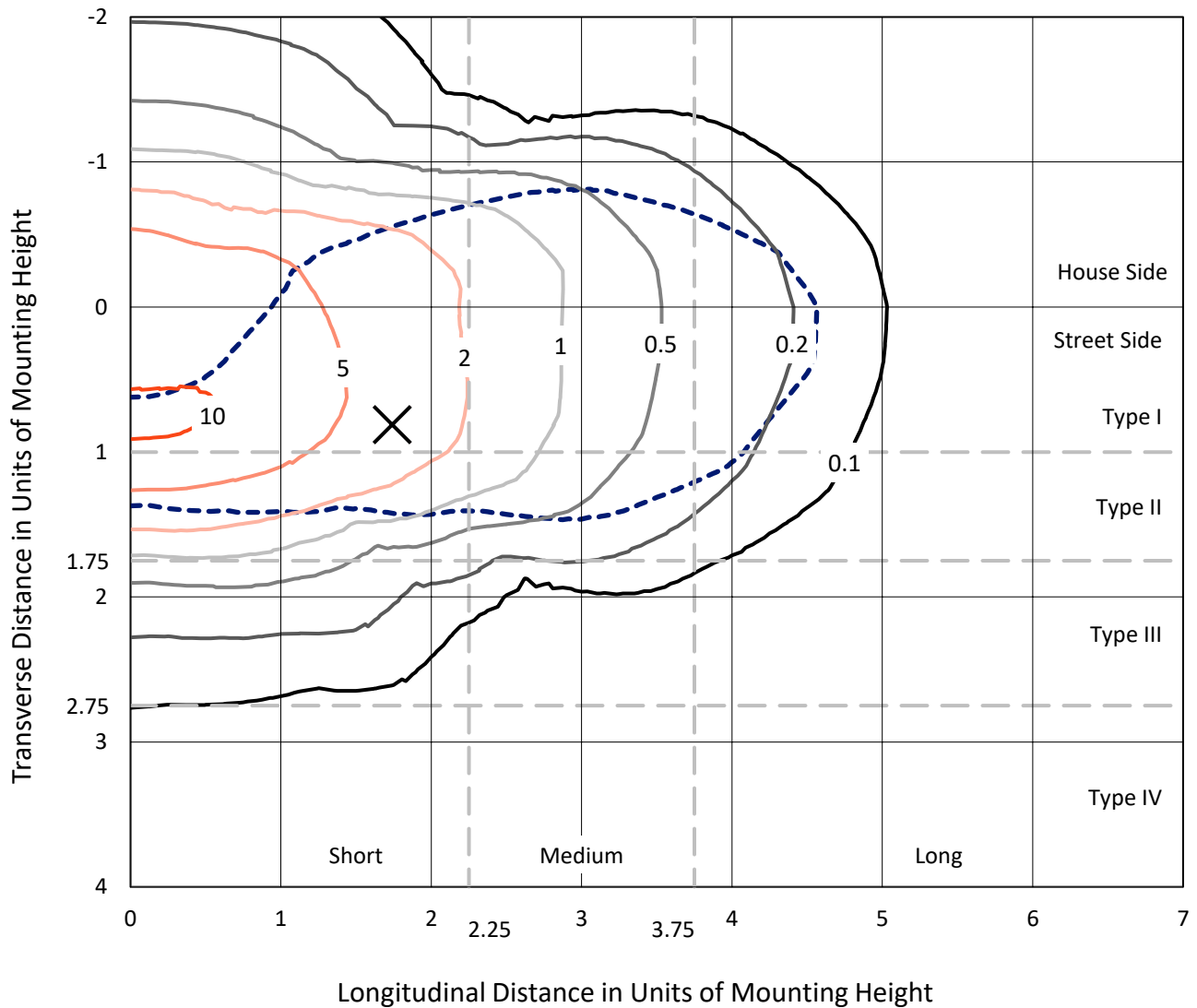
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P956501
 CATALOG NUMBER: GALN-SB9A-850-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

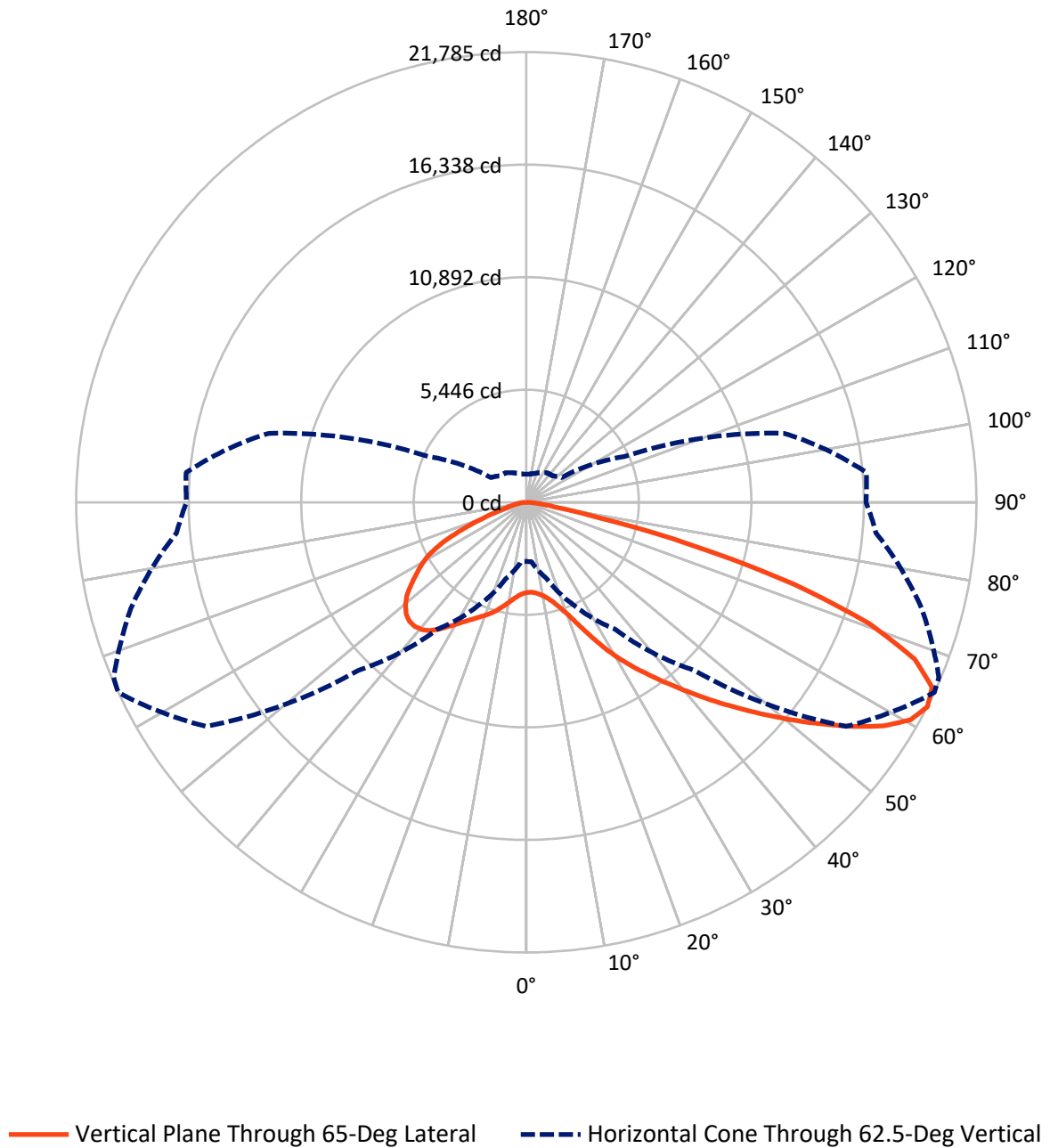
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

REPORT NUMBER: P956501
CATALOG NUMBER: GALN-SB9A-850-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P956501
 CATALOG NUMBER: GALN-SB9A-850-U-T2U

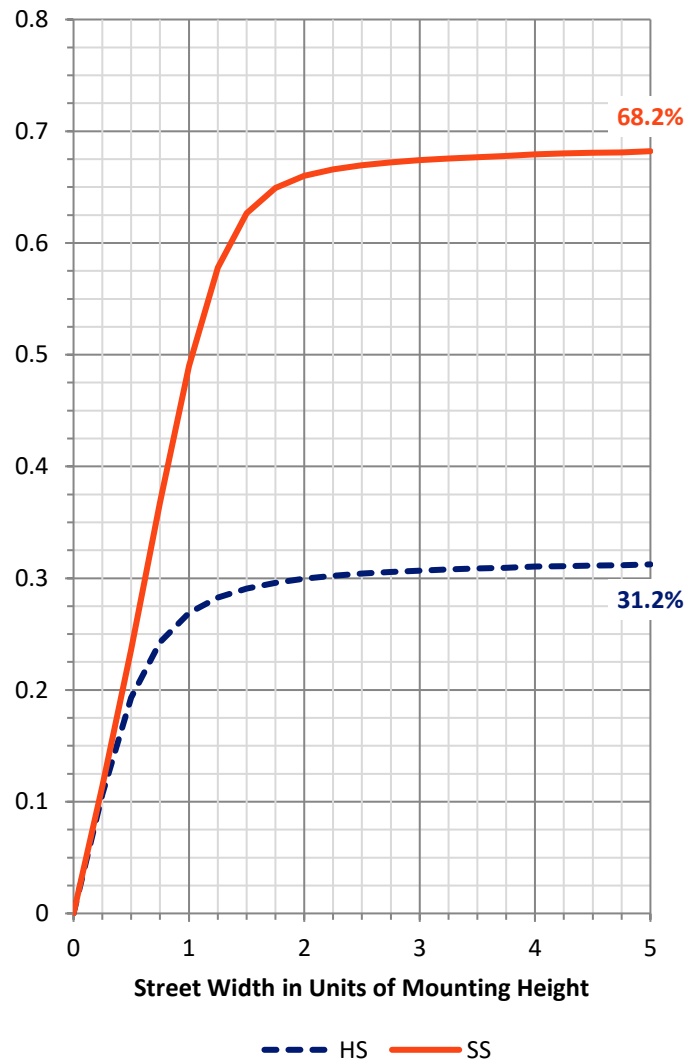
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12497.6	0.0	12497.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	27107.4	0.0	27107.4
	% Fixture	68.4	0.0	68.4
Total	Lumens	39605.0	0.0	39605.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.1	1.1
10°-20°	1475.5	3.7
20°-30°	2991.8	7.6
30°-40°	5177.2	13.1
40°-50°	7834.7	19.8
50°-60°	9185.7	23.2
60°-70°	7701.1	19.4
70°-80°	4251.6	10.7
80°-90°	552.3	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°	39605.0	100.0
0°-180°	39605.0	100.0

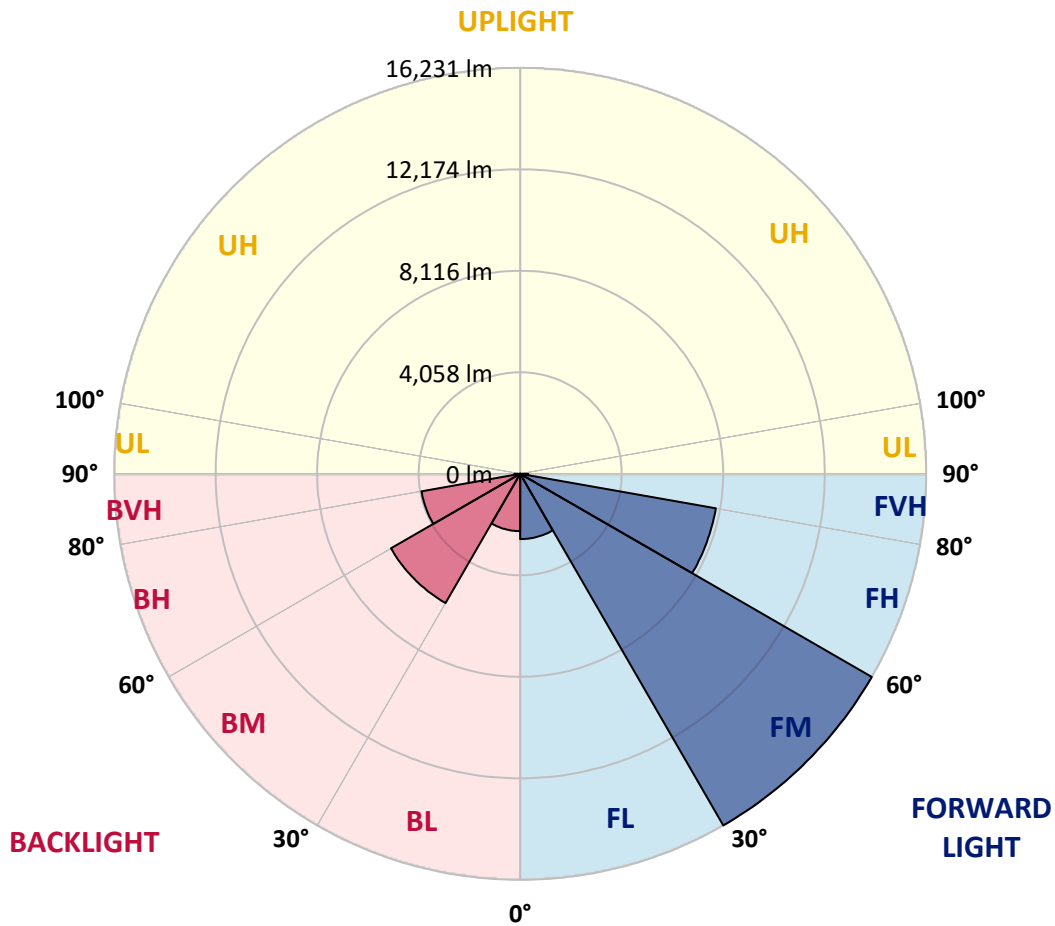


REPORT NUMBER: P956501
 CATALOG NUMBER: GALN-SB9A-850-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2610.5	6.6			
FM (30°-60°)	16231.4	41.0			
FH (60°-80°)	7943.6	20.1			G4/12000
FVH (80°-90°)	321.9	0.8			G3/500
BL (0°-30°)	2291.9	5.8	B3/2500		
BM (30°-60°)	5966.2	15.1	B4/8500		
BH (60°-80°)	4009.1	10.1	B4/5000		G4/5000
BVH (80°-90°)	230.4	0.6			G3/500
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: P956501
 CATALOG NUMBER: GALN-SB9A-850-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	4364.3	4364.3	4364.3	4364.3	4364.3	4364.3	4364.3	4364.3	4364.3	4364.3
2.5°	4335.5	4323.2	4333.5	4333.5	4337.6	4335.5	4349.9	4354.0	4360.2	4372.5
5°	4292.4	4290.3	4308.8	4325.3	4341.7	4356.1	4374.6	4401.3	4405.4	4419.8
7.5°	4278.0	4265.7	4294.4	4315.0	4354.0	4389.0	4438.3	4483.5	4502.0	4508.1
10°	4389.0	4368.4	4395.1	4407.4	4440.3	4475.3	4532.8	4604.7	4625.3	4649.9
12.5°	4578.0	4555.4	4594.4	4612.9	4643.7	4674.6	4713.6	4783.5	4793.7	4838.9
15°	4836.9	4810.2	4834.8	4857.4	4908.8	4937.6	4976.6	5044.4	5044.4	5079.4
17.5°	5188.3	5153.3	5171.8	5180.0	5212.9	5256.1	5321.8	5381.4	5412.2	5399.9
20°	5712.2	5669.1	5669.1	5628.0	5615.6	5650.6	5736.9	5819.1	5851.9	5788.2
22.5°	6499.2	6437.5	6402.6	6262.9	6207.4	6211.5	6297.8	6398.5	6425.2	6312.2
25°	7499.9	7403.3	7356.0	7150.5	7025.2	6916.3	6984.1	7113.6	7150.5	7010.8
27.5°	8500.5	8506.7	8461.5	8214.9	8007.4	7808.1	7773.1	7908.8	7947.8	7789.6
30°	9903.9	9758.0	9671.7	9375.8	9080.0	8800.5	8656.7	8712.2	8722.4	8533.4
32.5°	11114.2	11077.2	10892.3	10633.4	10253.2	9815.6	9575.2	9486.8	9470.4	9201.2
35°	12492.9	12472.4	12277.2	11968.9	11558.0	10949.8	10516.2	10263.5	10243.0	9864.9
37.5°	13894.3	13894.3	13703.2	13366.2	12940.8	12180.6	11521.0	11120.3	11054.6	10561.4
40°	15012.0	14944.2	14979.2	14837.4	14350.4	13542.9	12636.7	12055.2	11966.9	11375.1
42.5°	15647.0	15624.4	15833.9	15992.2	15792.8	15147.7	13865.5	13068.2	12945.0	12271.0
45°	15788.7	15764.1	16138.0	16717.5	16996.9	16731.9	15201.1	14134.7	13984.7	13208.0
47.5°	15462.0	15412.7	15961.3	16875.7	17771.6	18238.0	16647.6	15291.5	15073.7	14120.3
50°	14479.9	14432.6	15262.7	16477.1	18032.5	19261.3	18217.5	16518.2	16185.3	15098.3
52.5°	12345.0	12367.6	13668.2	15336.7	17689.4	19898.2	19569.5	17810.6	17409.9	16099.0
55°	9616.3	9665.6	11264.2	13101.1	16316.8	19801.7	20492.1	19142.1	18743.5	17040.1
57.5°	6885.5	7103.3	8601.2	10419.7	13680.6	18270.9	20693.4	20407.8	20021.5	18067.5
60°	4462.9	4502.0	6043.0	7875.9	10417.6	15550.4	20284.5	21367.4	21065.3	19115.4
62.5°	2860.2	2886.9	3826.0	5508.8	7497.8	11504.6	18907.9	21784.5	21692.0	19807.8
65°	2102.0	2081.5	2570.5	3641.0	5050.6	7095.1	16234.6	21583.1	21766.0	20241.4
67.5°	1754.8	1726.0	1966.4	2521.2	3721.2	4029.4	12012.1	20274.3	20944.1	20192.1
70°	1598.6	1573.9	1719.8	1871.9	2903.4	2697.9	6055.4	17625.7	18657.2	19631.1
72.5°	1354.1	1310.9	1510.2	1662.3	2258.2	2069.1	2502.7	13538.8	14796.3	17833.2
75°	1050.0	1021.2	1191.8	1463.0	1697.2	1615.0	1582.2	8221.1	9593.7	13791.5
77.5°	832.2	793.1	949.3	1140.4	1526.7	1218.5	1152.7	3540.3	4900.6	8804.6
80°	626.7	591.8	721.2	902.0	1173.3	918.5	745.9	1444.5	1847.2	4460.9
82.5°	445.9	415.1	503.4	661.6	789.0	824.0	458.2	809.6	910.3	1719.8
85°	285.6	267.1	337.0	415.1	501.4	530.1	279.4	423.3	464.4	708.9
87.5°	156.2	127.4	180.8	193.1	232.2	211.6	133.6	154.1	166.4	256.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956501
 CATALOG NUMBER: GALN-SB9A-850-U-T2U

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4364.3	0°	4364.3	4364.3	4364.3	4364.3	4364.3	4364.3	4364.3	4364.3	4364.3	4364.3
4372.5	2.5°	4380.7	4386.9	4407.4	4413.6	4428.0	4446.5	4458.8	4471.1	4471.1	4483.5
4438.3	5°	4440.3	4454.7	4497.9	4520.5	4557.4	4594.4	4617.0	4643.7	4660.2	4668.4
4543.1	7.5°	4555.4	4578.0	4639.6	4678.7	4742.4	4793.7	4828.7	4865.7	4873.9	4896.5
4689.0	10°	4711.6	4738.3	4808.1	4882.1	4958.1	5021.8	5054.7	5081.4	5091.7	5095.8
4875.9	12.5°	4890.3	4929.4	5019.8	5110.2	5190.3	5245.8	5254.0	5247.8	5219.1	5194.4
5106.1	15°	5110.2	5145.1	5245.8	5344.4	5422.5	5432.8	5381.4	5348.5	5313.6	5307.4
5362.9	17.5°	5373.2	5391.7	5484.1	5580.7	5586.9	5551.9	5475.9	5445.1	5412.2	5389.6
5697.8	20°	5679.3	5673.2	5738.9	5780.0	5736.9	5630.0	5515.0	5463.6	5430.7	5404.0
6108.8	22.5°	6045.1	5997.8	5989.6	5979.3	5864.3	5640.3	5484.1	5418.4	5367.0	5330.0
6682.1	25°	6577.3	6396.5	6271.1	6201.3	5942.4	5584.8	5385.5	5239.6	5143.1	5079.4
7382.7	27.5°	7243.0	6938.9	6622.5	6451.9	5942.4	5471.8	5147.2	4910.9	4752.6	4686.9
8060.8	30°	7877.9	7559.4	7093.0	6754.0	5928.0	5286.9	4762.9	4434.2	4249.2	4183.5
8640.2	32.5°	8420.4	8073.1	7592.3	7084.8	5893.0	4986.9	4286.2	3922.5	3743.8	3665.7
9213.5	35°	8923.8	8553.9	8093.7	7448.5	5800.6	4547.2	3762.3	3484.9	3285.6	3160.2
9797.1	37.5°	9439.5	8999.8	8568.3	7777.2	5634.1	4033.5	3359.5	3123.2	2889.0	2720.5
10417.6	40°	10000.5	9474.5	9075.9	7972.4	5360.9	3544.5	3047.2	2831.5	2582.8	2404.1
11132.7	42.5°	10656.0	10043.6	9640.9	8073.1	4986.9	3197.2	2843.8	2632.1	2397.9	2252.0
11899.1	45°	11340.2	10670.3	10156.7	8071.1	4569.8	3034.9	2778.0	2568.4	2309.5	2157.5
12686.1	47.5°	12057.3	11325.8	10602.5	7939.6	4208.1	3057.5	2741.0	2430.8	2145.2	1997.2
13481.2	50°	12776.5	12042.9	11034.0	7693.0	4054.0	3008.2	2603.4	2237.6	1900.6	1767.1
14227.1	52.5°	13489.5	12805.2	11405.9	7341.6	3897.9	2825.3	2426.7	1986.9	1800.0	1707.5
14997.7	55°	14206.6	13559.3	11810.7	6830.0	3507.5	2611.6	2130.8	1892.4	1719.8	1635.6
15751.8	57.5°	14925.7	14430.5	12195.0	6318.4	3016.4	2348.6	1968.5	1777.4	1639.7	1567.8
16382.6	60°	15673.7	15427.1	12591.5	5847.8	2531.5	2011.6	1849.3	1684.9	1545.2	1465.0
16988.7	62.5°	16444.2	16524.3	12901.8	5241.7	2085.6	1806.1	1742.4	1573.9	1438.3	1362.3
17490.1	65°	17220.9	17582.5	13105.2	4401.3	1691.1	1610.9	1627.4	1452.7	1315.0	1249.3
17857.9	67.5°	17806.5	18344.9	13047.7	3330.8	1387.0	1426.0	1483.5	1325.3	1195.9	1144.5
17798.3	70°	17872.3	18254.4	12480.6	2280.8	1160.9	1245.2	1323.3	1200.0	1066.4	1029.4
16959.9	72.5°	16996.9	17021.6	10900.5	1489.7	982.2	1093.1	1154.8	1072.6	943.1	906.1
14837.4	75°	14701.8	14077.1	8003.3	982.2	821.9	939.0	996.6	939.0	813.7	821.9
11101.8	77.5°	11138.8	9969.7	4859.5	698.6	686.3	789.0	867.1	826.0	719.2	807.5
5582.8	80°	5738.9	5393.7	2167.8	521.9	542.5	630.8	713.0	659.6	569.2	542.5
1247.2	82.5°	1315.0	1528.7	854.8	374.0	392.5	454.1	544.5	495.2	408.9	345.2
519.9	85°	460.3	503.4	378.1	234.2	230.1	283.6	369.9	330.8	277.4	221.9
219.9	87.5°	145.9	191.1	141.8	94.5	98.6	127.4	170.5	156.2	129.4	84.2
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>
4364.3
4483.5
4672.5
4888.3
5085.5
5194.4
5307.4
5391.7
5406.1
5342.4
5104.0
4719.8
4222.5
3704.7
3201.3
2765.7
2439.0
2280.8
2182.1
2017.8
1775.3
1707.5
1627.4
1555.4
1458.9
1360.2
1247.2
1146.6
1031.5
904.1
793.1
710.9
495.2
341.1
234.2
88.4
0.0

F REPORT)