

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: P944267

Luminaire Tested: **GALN-SB9A-850-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
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-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39108 lumens
Efficiency: N/A
Efficacy: 153.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

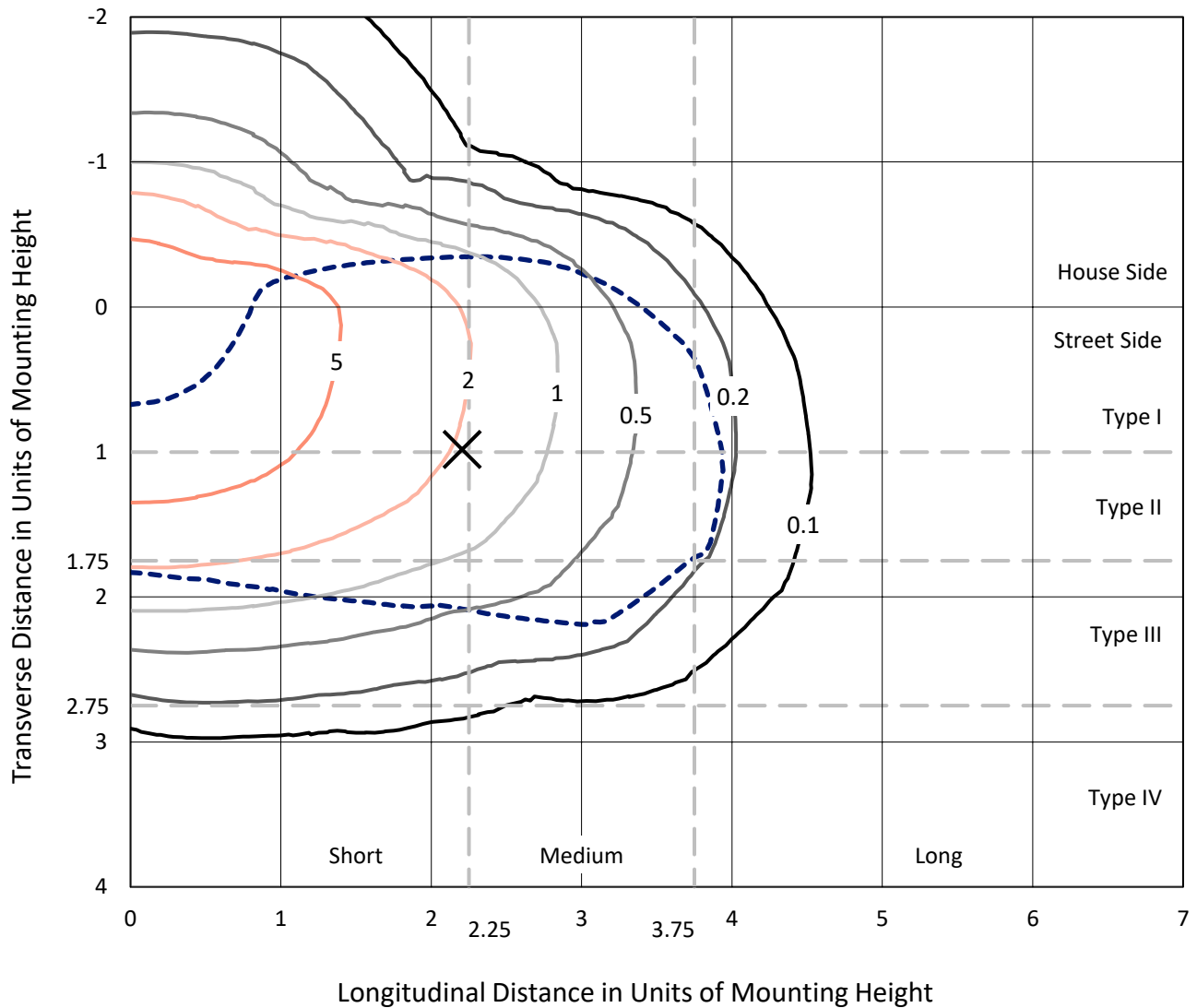
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944267
 CATALOG NUMBER: GALN-SB9A-850-U-T3

Iso-Footcandle Lines of Horizontal Illumination

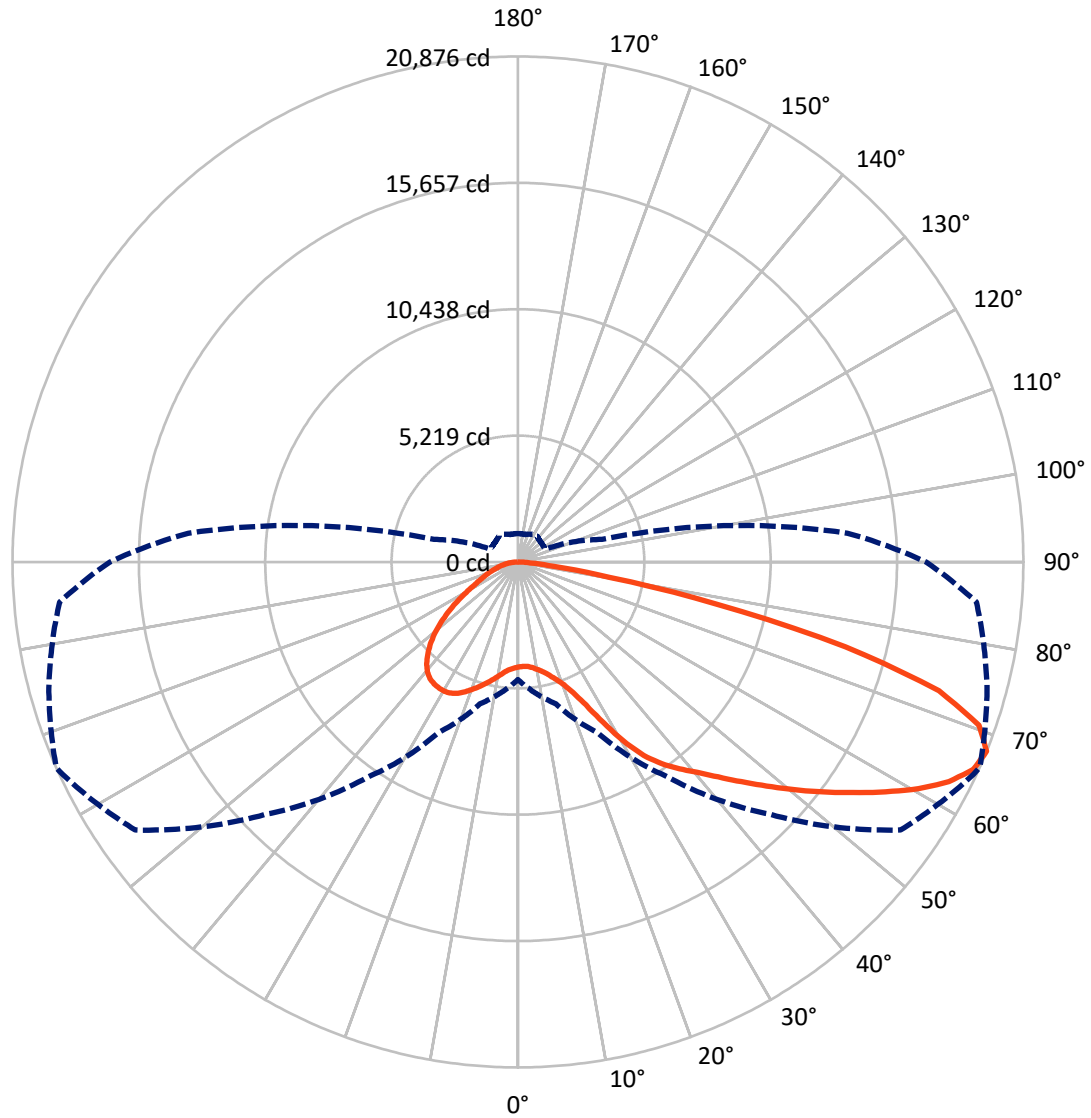
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Short - N/A

REPORT NUMBER: P944267
CATALOG NUMBER: GALN-SB9A-850-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P944267

CATALOG NUMBER: GALN-SB9A-850-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9724.1	0.0	9724.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	29383.9	0.0	29383.9
	% Fixture	75.1	0.0	75.1
Total	Lumens	39108.0	0.0	39108.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.1	1.1
10°-20°	1420.8	3.6
20°-30°	2738.6	7.0
30°-40°	4801.8	12.3
40°-50°	7138.7	18.3
50°-60°	9049.0	23.1
60°-70°	8854.2	22.6
70°-80°	4223.5	10.8
80°-90°	451.4	1.2
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°	39108.0	100.0
0°-180°	39108.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944267

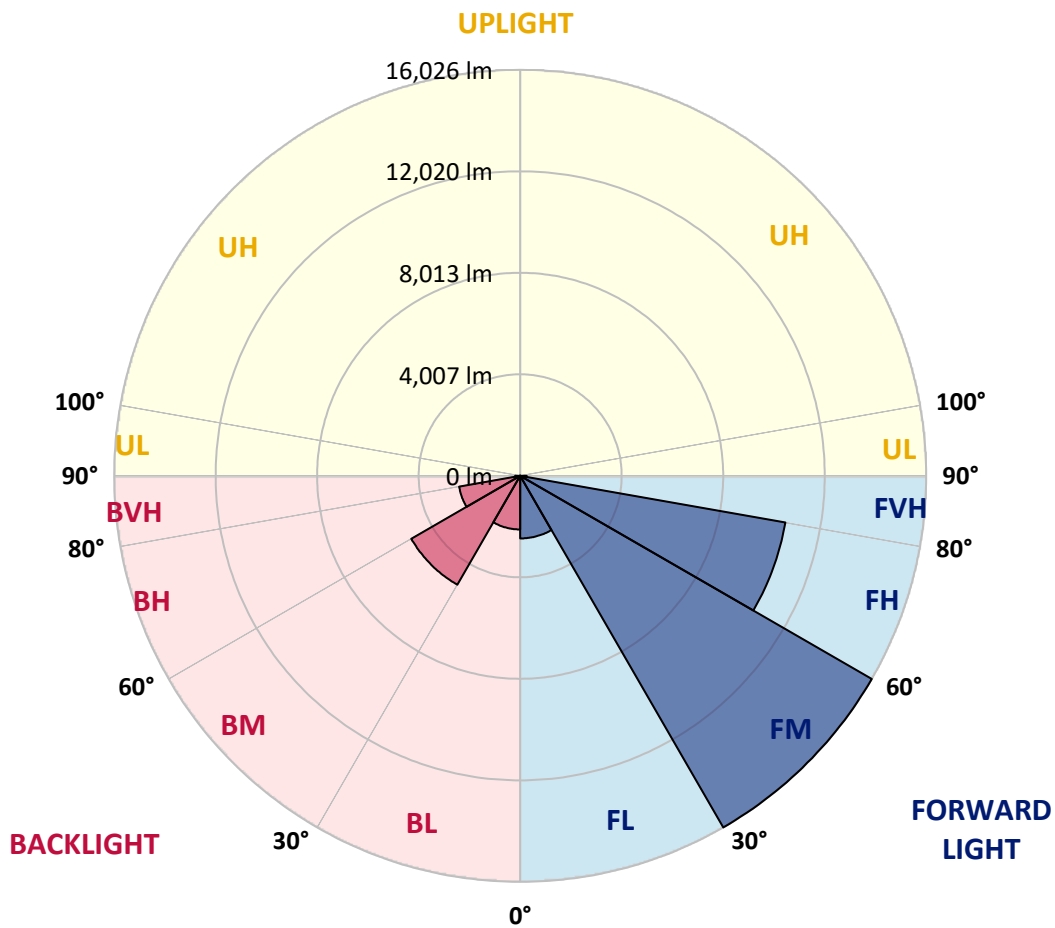
CATALOG NUMBER: GALN-SB9A-850-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2471.2	6.3			
FM (30°-60°)	16026.1	41.0			
FH (60°-80°)	10630.6	27.2			G4/12000
FVH (80°-90°)	255.9	0.7			G3/500
BL (0°-30°)	2118.3	5.4	B3/2500		
BM (30°-60°)	4963.3	12.7	B3/5000		
BH (60°-80°)	2447.1	6.3	B3/2500		G3/2500
BVH (80°-90°)	195.5	0.5			G2/225
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 Short



REPORT NUMBER: P944267

CATALOG NUMBER: GALN-SB9A-850-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	4337.6	4337.6	4337.6	4337.6	4337.6	4337.6	4337.6	4337.6	4337.6	4337.6
2.5°	4292.4	4317.0	4310.9	4300.6	4298.6	4302.7	4308.8	4315.0	4312.9	4323.2
5°	4280.1	4304.7	4302.7	4302.7	4310.9	4327.3	4337.6	4347.9	4337.6	4349.9
7.5°	4288.3	4306.8	4315.0	4323.2	4343.8	4374.6	4399.2	4421.8	4409.5	4423.9
10°	4393.1	4407.5	4415.7	4415.7	4430.1	4465.0	4489.6	4530.7	4520.5	4543.1
12.5°	4584.2	4598.5	4598.5	4590.3	4600.6	4623.2	4631.4	4676.6	4658.1	4695.1
15°	4818.4	4847.2	4824.6	4810.2	4814.3	4836.9	4834.8	4869.8	4851.3	4882.1
17.5°	5077.3	5114.3	5077.3	5075.3	5067.0	5091.7	5093.7	5124.6	5091.7	5114.3
20°	5383.5	5434.8	5404.0	5414.3	5395.8	5406.1	5416.3	5461.5	5410.2	5426.6
22.5°	5815.0	5876.6	5843.7	5882.8	5870.4	5862.2	5860.2	5940.3	5860.2	5866.3
25°	6443.7	6517.7	6460.2	6513.6	6513.6	6540.3	6571.1	6673.9	6540.3	6501.3
27.5°	7372.5	7446.4	7333.4	7366.3	7356.0	7421.8	7388.9	7643.7	7499.9	7436.2
30°	8490.3	8621.8	8408.1	8399.9	8389.6	8494.4	8541.6	8710.1	8564.2	8500.5
32.5°	9698.5	9836.1	9581.3	9507.4	9468.3	9532.0	9493.0	9628.6	9527.9	9429.3
35°	10976.5	11112.1	10869.7	10725.8	10569.7	10436.1	10296.4	10331.3	10236.8	10086.8
37.5°	12184.7	12433.3	12176.5	12022.4	11734.7	11473.8	11083.4	10921.0	10832.7	10695.0
40°	13415.5	13557.3	13362.1	13230.6	12918.3	12509.4	11884.7	11541.6	11422.4	11288.8
42.5°	14321.7	14457.3	14352.5	14262.1	14017.6	13542.9	12735.4	12305.9	12133.3	11983.3
45°	15040.8	15141.5	15075.8	15108.6	15003.8	14543.6	13616.9	13125.8	12947.0	12764.2
47.5°	15330.5	15437.4	15542.2	15737.4	15916.2	15577.1	14564.1	14013.4	13824.4	13637.4
50°	15297.7	15406.6	15710.7	16125.7	16680.5	16567.5	15562.7	14958.6	14784.0	14570.3
52.5°	15034.7	15157.9	15548.4	16238.8	17122.3	17309.3	16579.8	15934.6	15770.3	15515.5
55°	14344.3	14418.2	15003.8	15981.9	17227.1	17827.1	17576.4	16974.4	16810.0	16454.5
57.5°	13064.2	13171.0	14023.7	15289.5	16964.1	18178.4	18451.7	18067.5	17909.3	17397.6
60°	11393.6	11564.2	12540.2	14126.5	16294.2	18176.4	19246.9	19142.1	19010.6	18326.4
62.5°	9503.3	9700.5	10639.5	12482.7	15123.0	17660.6	19744.2	20042.1	19974.3	19183.2
65°	7298.5	7434.1	8369.0	10356.0	13300.4	16553.1	19801.7	20656.5	20668.8	19834.6
67.5°	4859.5	5249.9	6061.5	7771.1	10859.4	14742.9	19296.2	20757.2	20876.3	20058.5
70°	2371.2	2884.9	3680.1	5050.6	7771.1	11966.9	17975.0	19931.2	20196.2	19405.1
72.5°	984.2	1150.7	1584.2	2492.4	4460.9	8075.2	15320.3	17691.5	18182.6	17194.2
75°	663.7	719.2	906.1	1278.1	2032.2	3982.1	11048.4	13191.5	13982.6	12986.1
77.5°	511.6	546.6	659.6	893.8	1208.2	1506.1	5913.6	7949.9	8358.8	7738.2
80°	402.7	429.4	493.1	651.4	856.8	805.5	2015.7	3602.0	3838.3	3219.8
82.5°	349.3	359.6	353.4	441.8	569.2	470.5	661.6	1329.4	1467.1	1064.4
85°	252.7	281.5	293.8	273.3	302.0	238.4	271.2	470.5	517.8	462.3
87.5°	102.7	152.1	187.0	176.7	111.0	67.8	84.2	137.7	158.2	172.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944267
 CATALOG NUMBER: GALN-SB9A-850-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4337.6	0°	4337.6	4337.6	4337.6	4337.6	4337.6	4337.6	4337.6	4337.6	4337.6	4337.6
4339.6	2.5°	4341.7	4356.1	4366.4	4378.7	4386.9	4399.2	4423.9	4438.3	4440.3	4450.6
4372.5	5°	4380.7	4401.3	4423.9	4456.8	4493.8	4524.6	4571.8	4604.7	4617.0	4627.3
4452.7	7.5°	4465.0	4493.8	4534.9	4592.4	4645.8	4686.9	4744.4	4783.5	4822.5	4836.9
4580.1	10°	4590.3	4631.4	4691.0	4769.1	4826.6	4880.1	4939.6	4972.5	5011.6	5028.0
4732.1	12.5°	4746.5	4789.6	4867.7	4976.6	5030.0	5067.0	5087.6	5079.4	5087.6	5102.0
4915.0	15°	4925.3	4972.5	5060.9	5178.0	5215.0	5182.1	5136.9	5095.8	5089.6	5093.7
5136.9	17.5°	5136.9	5171.8	5274.6	5373.2	5346.5	5210.9	5112.2	5046.5	5013.6	5003.3
5420.5	20°	5432.8	5432.8	5517.0	5578.7	5399.9	5169.8	5015.7	4908.8	4841.0	4812.2
5806.7	22.5°	5792.4	5759.5	5812.9	5769.8	5389.6	5054.7	4841.0	4656.1	4553.3	4512.2
6347.1	25°	6248.5	6209.5	6195.1	5928.0	5315.7	4871.8	4524.6	4300.6	4210.2	4187.6
7125.9	27.5°	6936.9	6838.2	6651.3	6014.3	5180.0	4584.2	4154.7	3947.2	3895.8	3897.9
8126.6	30°	7853.3	7656.0	7197.8	6028.7	4958.1	4177.3	3776.6	3628.7	3604.0	3614.3
8967.0	32.5°	8701.9	8514.9	7756.7	5962.9	4617.0	3778.7	3437.6	3339.0	3302.0	3314.3
9608.0	35°	9367.6	9316.3	8274.5	5870.4	4197.9	3404.7	3133.5	3049.3	2977.3	2960.9
10212.1	37.5°	9996.4	9975.8	8662.9	5741.0	3782.8	3139.7	2889.0	2778.0	2673.2	2615.7
10879.9	40°	10686.8	10666.2	8917.6	5541.7	3415.0	2909.5	2669.1	2523.2	2393.8	2289.0
11636.1	42.5°	11463.5	11342.3	9038.9	5256.1	3102.7	2714.3	2490.4	2293.1	2122.6	2026.0
12490.9	45°	12312.1	12038.8	9036.8	4892.4	2839.7	2535.6	2299.3	2019.8	1861.6	1771.2
13368.3	47.5°	13212.1	12704.6	8925.9	4489.6	2584.9	2338.3	2003.4	1789.7	1684.9	1629.4
14321.7	50°	14140.8	13327.2	8736.8	4027.3	2323.9	2114.3	1818.5	1672.6	1592.4	1541.1
15266.9	52.5°	15014.1	13892.2	8508.8	3503.4	2058.9	1896.5	1736.3	1623.3	1539.0	1481.5
16183.3	55°	15825.7	14379.2	8186.2	2967.1	1843.1	1750.7	1697.2	1602.7	1506.1	1438.3
17114.1	57.5°	16547.0	14695.6	7629.3	2463.7	1689.0	1650.0	1656.1	1567.8	1456.8	1399.3
18030.5	60°	17147.0	14927.8	6805.4	1997.2	1563.7	1551.3	1592.4	1502.0	1372.6	1306.8
18805.1	62.5°	17506.5	14923.7	5794.4	1635.6	1456.8	1460.9	1508.2	1419.8	1288.3	1226.7
19209.9	65°	17475.7	14558.0	4684.8	1399.3	1354.1	1358.2	1419.8	1329.4	1218.5	1181.5
19006.5	67.5°	16857.2	13666.2	3593.8	1245.2	1241.1	1259.6	1331.5	1267.8	1175.3	1171.2
17794.2	70°	15182.6	11814.9	2589.0	1121.9	1124.0	1150.7	1245.2	1228.7	1152.7	1160.9
14960.7	72.5°	12174.4	9008.1	1738.3	992.4	994.5	1037.7	1163.0	1197.9	1130.1	1239.0
10614.9	75°	8108.1	5617.7	1117.8	854.8	856.8	912.3	1091.1	1138.3	1068.5	1234.9
5523.2	77.5°	3895.8	2525.3	809.6	719.2	719.2	770.5	943.1	1019.2	910.3	959.6
1775.3	80°	1345.9	949.3	637.0	579.4	567.1	602.0	795.2	883.5	784.9	723.3
579.4	82.5°	530.1	493.1	511.6	450.0	408.9	431.5	618.5	729.4	577.4	521.9
326.7	85°	304.1	320.5	361.6	297.9	236.3	265.1	454.1	524.0	435.6	384.2
106.8	87.5°	82.2	113.0	166.4	154.1	106.8	113.0	215.7	289.7	250.7	193.1
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

180°
4337.6
4448.6
4625.3
4839.0
5036.2
5106.1
5108.1
5017.7
4806.1
4506.1
4191.7
3904.0
3649.3
3330.8
2973.2
2617.8
2299.3
2032.2
1767.1
1617.1
1522.6
1456.8
1411.6
1362.3
1278.1
1208.2
1179.4
1177.4
1158.9
1255.5
1245.2
879.4
678.1
519.9
392.5
199.3
0.0

F REPORT)