

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: P944749

Luminaire Tested: **GALN-SB9D-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9D-830-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 82316 lumens
Efficiency: N/A
Efficacy: 125.1 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

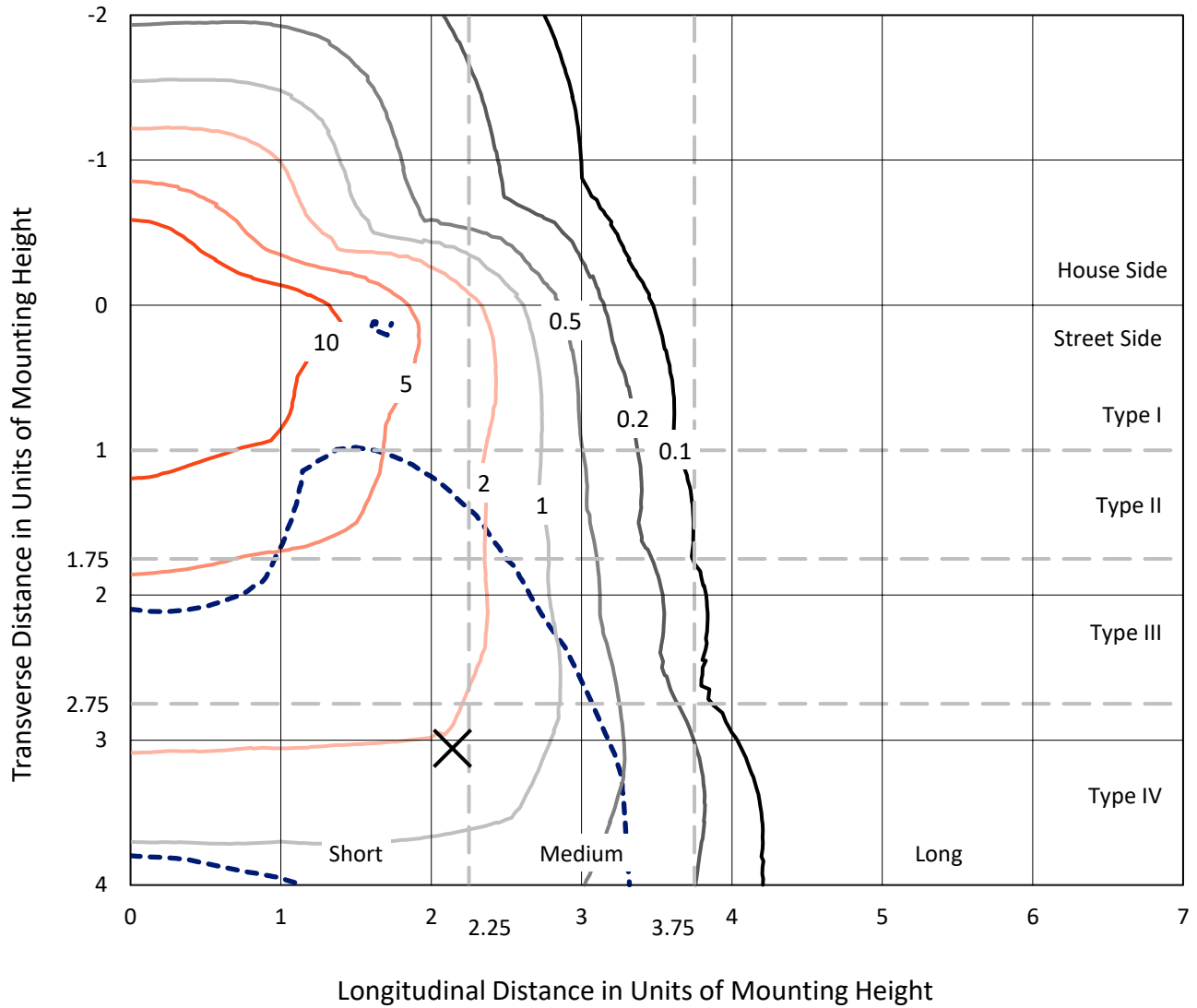
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944749
 CATALOG NUMBER: GALN-SB9D-830-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

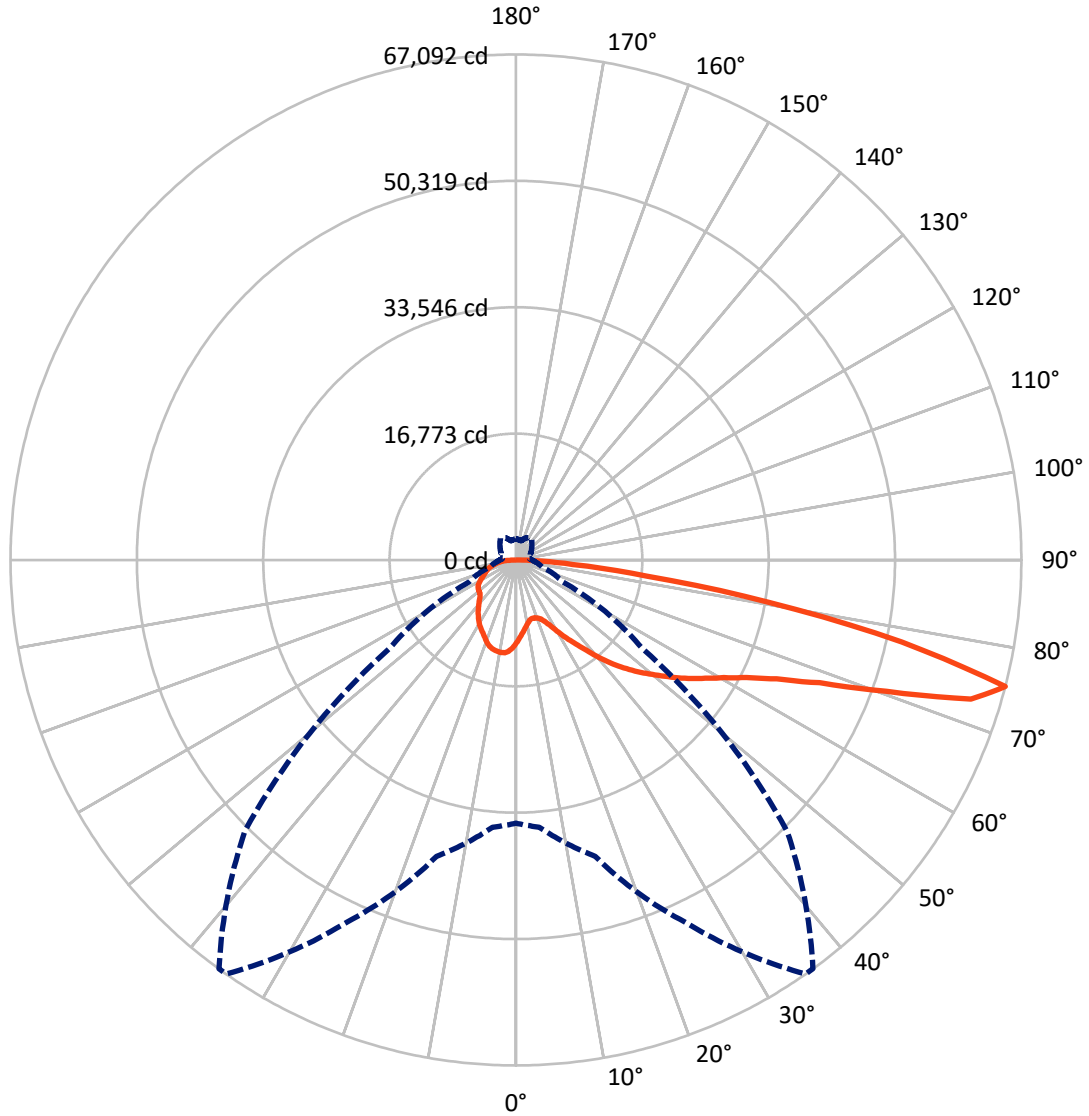
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P944749
CATALOG NUMBER: GALN-SB9D-830-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P944749

CATALOG NUMBER: GALN-SB9D-830-U-T4FT

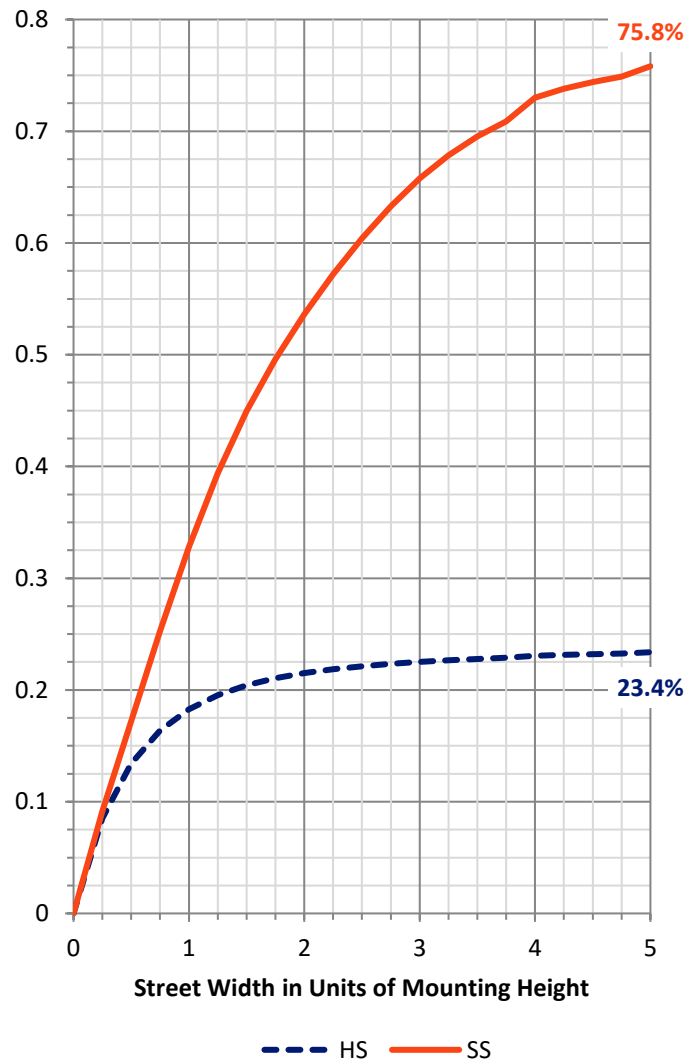
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19589.1	0.0	19589.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	62726.8	0.0	62726.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	82316.0	0.0	82316.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1038.6	1.3
10°-20°	2995.7	3.6
20°-30°	5030.5	6.1
30°-40°	7818.1	9.5
40°-50°	11604.1	14.1
50°-60°	16020.2	19.5
60°-70°	19436.1	23.6
70°-80°	16062.5	19.5
80°-90°	2310.3	2.8
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°	82316.0	100.0
0°-180°	82316.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944749

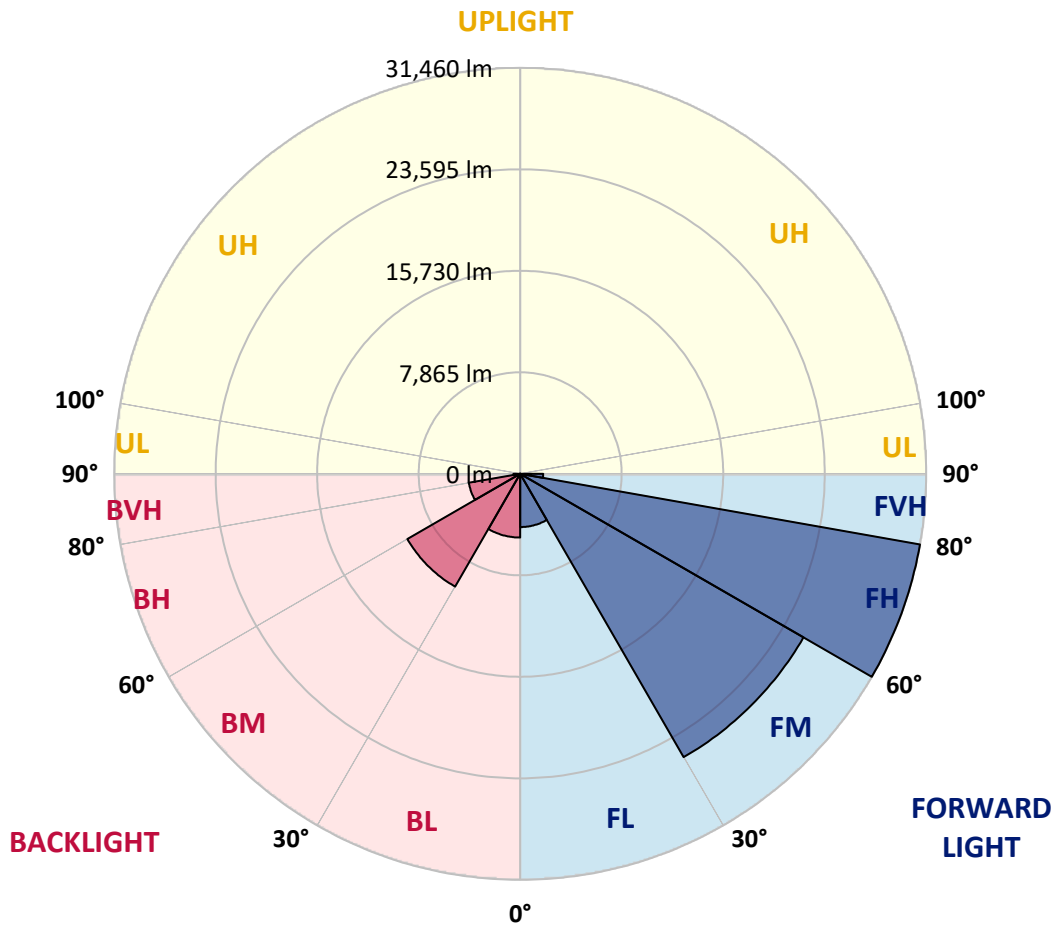
CATALOG NUMBER: GALN-SB9D-830-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4128.0	5.0			
FM (30°-60°)	25348.9	30.8			
FH (60°-80°)	31459.9	38.2			G5
FVH (80°-90°)	1790.1	2.2			G5
BL (0°-30°)	4936.7	6.0	B4/5000		
BM (30°-60°)	10093.5	12.3	B5		
BH (60°-80°)	4038.7	4.9	B4/5000		G4/5000
BVH (80°-90°)	520.2	0.6			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: P944749

CATALOG NUMBER: GALN-SB9D-830-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	10969.2	10969.2	10969.2	10969.2	10969.2	10969.2	10969.2	10969.2	10969.2	10969.2
2.5°	10114.8	10177.1	10203.8	10190.4	10257.2	10248.3	10341.7	10457.4	10617.6	10773.4
5°	9336.0	9402.8	9460.6	9514.0	9643.1	9683.1	9830.0	10052.5	10346.2	10644.3
7.5°	8610.7	8668.5	8757.5	8855.4	9073.5	9113.5	9358.3	9705.4	10114.8	10550.9
10°	8018.8	8076.7	8170.1	8281.4	8552.8	8601.8	8913.3	9376.1	9910.1	10461.9
12.5°	7765.2	7783.0	7836.4	7947.6	8183.5	8214.6	8557.3	9086.8	9709.8	10395.1
15°	7751.8	7787.4	7791.9	7849.7	8045.5	8058.9	8374.8	8899.9	9585.2	10381.8
17.5°	7885.3	7912.0	7872.0	7907.6	8072.2	8094.5	8343.7	8810.9	9545.2	10439.6
20°	8241.3	8263.6	8143.4	8094.5	8214.6	8232.4	8477.2	8868.8	9585.2	10559.8
22.5°	8997.8	9011.2	8717.5	8517.2	8526.1	8535.0	8748.6	9104.6	9741.0	10777.8
25°	10177.1	10168.2	9700.9	9313.8	9091.3	9042.3	9184.7	9487.3	10003.5	11067.1
27.5°	11556.6	11489.8	11022.6	10444.1	9959.0	9887.8	9856.7	9985.7	10377.3	11449.8
30°	13114.0	13051.7	12548.9	11792.4	11120.5	11004.8	10711.1	10644.3	10933.6	11970.4
32.5°	14822.8	14782.8	14182.0	13265.3	12366.5	12233.0	11739.0	11561.0	11788.0	12758.0
35°	16255.7	16220.1	15721.7	14778.3	13679.2	13514.5	13011.7	12811.4	12927.1	13768.2
37.5°	17550.7	17532.9	17105.7	16362.5	15227.8	15027.5	14462.4	14395.6	14373.4	15098.7
40°	18752.2	18707.7	18262.7	17871.1	17030.0	16847.6	16349.2	16291.3	16122.2	16736.3
42.5°	20082.7	19967.0	19321.7	19139.3	18912.4	18761.1	18462.9	18471.8	18098.0	18583.1
45°	21168.5	21101.7	20438.7	20331.9	20576.6	20514.3	20772.4	20839.2	20113.8	20518.8
47.5°	22334.4	22272.1	21711.4	21635.7	22298.8	22316.6	23228.8	23251.1	22080.7	22530.2
50°	23771.7	23682.7	23126.5	23219.9	23963.1	24029.8	25698.5	25547.2	23891.9	24572.7
52.5°	24719.6	24773.0	24652.8	24804.1	25818.7	25881.0	28128.2	27741.1	25685.2	26588.5
55°	25418.2	25525.0	25898.8	26245.9	27776.7	27839.0	30420.0	29828.1	27171.5	28457.5
57.5°	26317.1	26165.8	26864.4	27540.8	29636.8	29801.4	32649.4	31839.5	28488.7	30068.4
60°	27607.6	27500.8	28043.7	29044.9	31719.4	31981.9	35007.9	33650.6	29454.3	31345.6
62.5°	30224.2	29957.2	30041.7	30927.3	34344.8	34691.9	37669.0	35230.4	29934.9	31843.9
65°	34135.7	33677.3	33250.1	33864.2	38042.8	38385.4	40672.7	36471.9	29756.9	30878.3
67.5°	39061.8	38607.9	38082.8	38661.3	43489.5	43761.0	44379.5	37170.6	28355.2	27158.1
70°	43124.6	42955.5	43583.0	45963.7	52189.2	52198.1	49132.1	36592.1	24514.9	19255.0
72.5°	42586.2	42483.8	45790.1	53150.4	63153.9	62918.1	53631.0	32213.3	16513.8	8686.3
75°	34936.7	35599.7	40721.6	53021.3	67092.1	67061.0	50876.5	20478.7	6830.7	3600.0
77.5°	18734.4	19784.5	26437.2	39146.3	52376.1	53163.7	35768.8	7164.4	2932.5	2305.1
80°	6109.8	7026.5	10537.5	19931.4	34033.3	33886.5	15330.1	2812.4	2006.9	1633.1
82.5°	2594.3	2701.1	4708.1	9411.7	17466.1	17194.7	4881.6	1615.3	1410.6	1116.9
85°	1014.6	1134.7	2078.1	4352.1	7564.9	7400.3	1762.2	801.0	903.3	729.8
87.5°	333.7	404.9	743.1	1490.7	2354.0	2269.5	431.6	275.9	391.6	333.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944749
 CATALOG NUMBER: GALN-SB9D-830-U-T4FT

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
10969.2	0°	10969.2	10969.2	10969.2	10969.2	10969.2	10969.2	10969.2	10969.2	10969.2	10969.2
11000.3	2.5°	11062.6	11133.8	11218.4	11343.0	11449.8	11538.8	11632.2	11690.1	11712.3	11779.1
11018.1	5°	11142.7	11298.5	11507.6	11712.3	11912.6	12032.7	12139.5	12192.9	12241.9	12277.5
11067.1	7.5°	11276.2	11476.5	11805.8	12072.8	12241.9	12339.8	12411.0	12393.2	12411.0	12419.9
11120.5	10°	11391.9	11672.3	12063.9	12317.5	12446.6	12451.0	12433.2	12370.9	12339.8	12344.2
11200.6	12.5°	11529.9	11841.4	12264.1	12477.7	12513.3	12415.4	12339.8	12233.0	12192.9	12175.1
11320.7	15°	11716.8	12072.8	12482.2	12562.3	12473.3	12348.7	12219.6	12046.1	11957.1	11885.9
11525.4	17.5°	11943.7	12335.3	12651.3	12593.4	12402.1	12197.4	11988.2	11725.7	11543.2	11467.6
11805.8	20°	12259.7	12611.2	12780.3	12526.7	12237.4	11925.9	11569.9	11249.5	11080.4	11004.8
12161.8	22.5°	12642.4	12980.5	12904.9	12411.0	12001.6	11503.2	11058.2	10822.3	10737.8	10684.4
12620.1	25°	13100.7	13389.9	12993.9	12241.9	11614.4	10942.5	10599.8	10524.2	10484.1	10444.1
13180.8	27.5°	13697.0	13852.7	13060.6	11992.7	11009.2	10346.2	10221.6	10234.9	10221.6	10154.8
13959.5	30°	14484.6	14453.5	13122.9	11587.7	10315.0	9807.7	9816.6	9874.5	9883.4	9838.9
15045.3	32.5°	15521.5	15205.5	13154.1	11062.6	9652.0	9336.0	9344.9	9407.2	9451.7	9376.1
16464.9	35°	16776.4	16082.2	13105.1	10404.0	9140.2	8886.6	8819.8	8837.6	8851.0	8779.8
18187.0	37.5°	18240.4	17065.6	12887.1	9674.2	8717.5	8446.0	8303.6	8183.5	8112.3	8045.5
20136.1	40°	19846.8	18138.1	12486.6	8962.2	8245.8	7978.8	7765.2	7538.2	7297.9	7208.9
22200.9	42.5°	21528.9	19241.6	12001.6	8281.4	7702.9	7484.8	7257.9	6928.6	6568.1	6385.7
24345.8	45°	23273.3	20371.9	11525.4	7609.4	7146.6	7053.2	6790.6	6394.6	6003.0	5771.6
26495.1	47.5°	24982.1	21439.9	10826.8	6933.0	6626.0	6728.3	6523.6	6158.8	5722.7	5357.8
28626.6	50°	26615.2	22441.2	9683.1	6247.8	6203.3	6630.4	6434.6	5909.6	5411.2	4943.9
30718.1	52.5°	28235.0	23251.1	8219.1	5624.8	5976.3	6603.7	6319.0	5740.5	5130.8	4641.3
32685.0	55°	29610.1	23669.4	6808.4	5090.8	5647.0	6376.8	6181.0	5540.2	4734.8	4214.1
34033.3	57.5°	30393.3	23331.2	5633.7	4565.7	5193.1	6003.0	5945.2	5113.0	4263.1	3862.6
34295.9	60°	30055.1	21960.6	4672.5	4107.3	4761.5	5598.1	5535.8	4690.3	3902.6	3524.4
32889.7	62.5°	28190.5	19348.4	3911.5	3706.8	4369.9	5184.2	5126.4	4365.4	3626.7	3261.8
29156.2	65°	24434.8	15739.5	3319.7	3373.1	3973.8	4685.8	4770.4	4094.0	3408.7	3052.7
22556.9	67.5°	18636.5	11400.8	2856.9	3083.8	3586.7	4196.3	4441.1	3898.2	3226.2	2888.0
13051.7	70°	10622.1	6474.7	2465.3	2803.5	3244.0	3742.4	4187.4	3742.4	3030.4	2750.1
4890.5	72.5°	4027.2	2972.6	2131.5	2523.1	2914.7	3359.7	3907.1	3497.7	2803.5	2594.3
2527.6	75°	2149.3	1811.1	1793.3	2193.8	2536.5	2985.9	3555.5	3257.4	2634.4	2741.2
1748.8	77.5°	1464.0	1281.6	1499.6	1877.9	2122.6	2572.1	3181.7	2892.5	2282.8	2273.9
1210.4	80°	1014.6	907.8	1219.3	1513.0	1642.0	2162.7	2776.8	2483.1	1860.1	1735.5
747.6	82.5°	609.6	591.8	912.2	1130.3	1161.4	1668.7	2300.6	2082.6	1521.9	1326.1
445.0	85°	333.7	351.5	582.9	663.0	676.4	1165.9	1802.2	1610.9	1170.3	983.4
160.2	87.5°	93.4	120.1	213.6	262.5	324.8	605.2	1072.4	956.7	587.4	409.4
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°
10969.2
11774.6
12286.4
12433.2
12353.1
12166.2
11908.1
11472.0
10995.9
10693.3
10444.1
10168.2
9861.1
9411.7
8828.7
8090.0
7249.0
6407.9
5753.8
5317.7
4903.9
4587.9
4169.6
3809.2
3471.0
3204.0
2994.8
2834.6
2714.5
2558.7
2830.2
2095.9
1659.8
1335.0
992.3
409.4
0.0

F REPORT)