

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: P944019

Luminaire Tested: **GALN-SB8D-735-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944019
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-SB8D-735-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 81328 lumens
Efficiency: N/A
Efficacy: 139.0 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

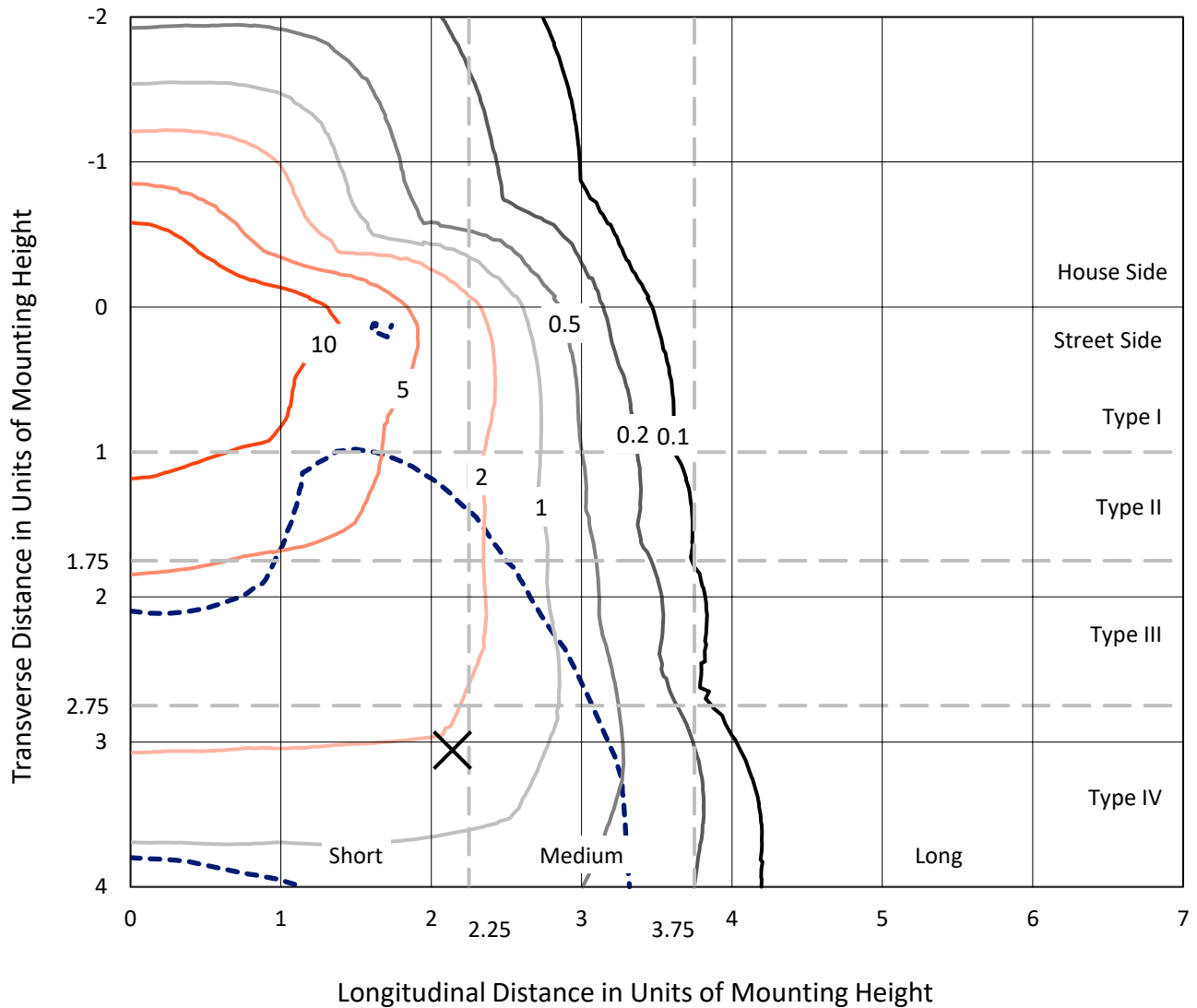
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944019
 CATALOG NUMBER: GALN-SB8D-735-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

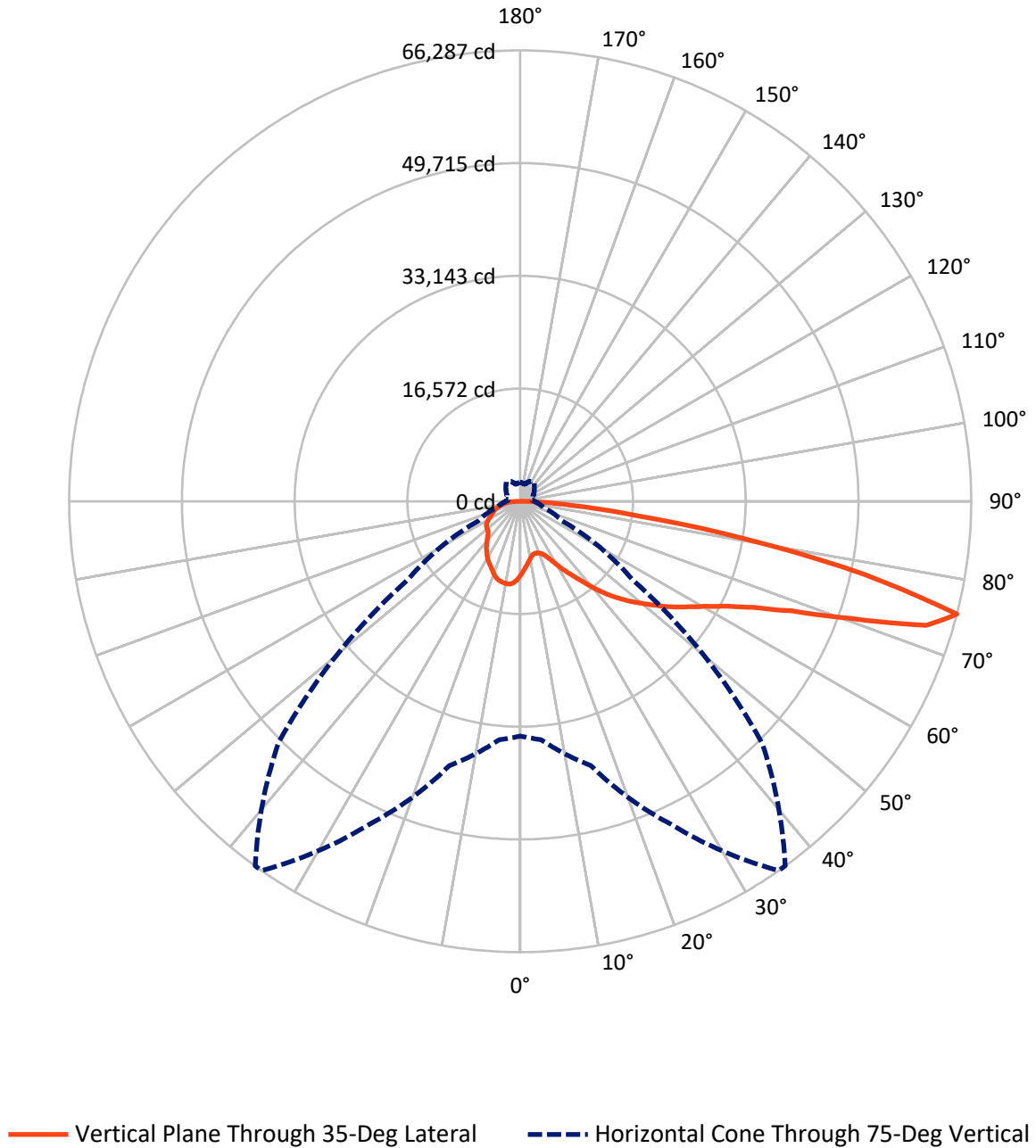
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P944019
CATALOG NUMBER: GALN-SB8D-735-U-T4FT

Luminous Intensity Polar Plot



REPORT NUMBER: P944019

CATALOG NUMBER: GALN-SB8D-735-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19354.0	0.0	19354.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	61974.0	0.0	61974.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	81328.0	0.0	81328.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1026.1	1.3
10°-20°	2959.7	3.6
20°-30°	4970.1	6.1
30°-40°	7724.2	9.5
40°-50°	11464.8	14.1
50°-60°	15827.9	19.5
60°-70°	19202.9	23.6
70°-80°	15869.7	19.5
80°-90°	2282.5	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°	81328.0	100.0
0°-180°	81328.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944019

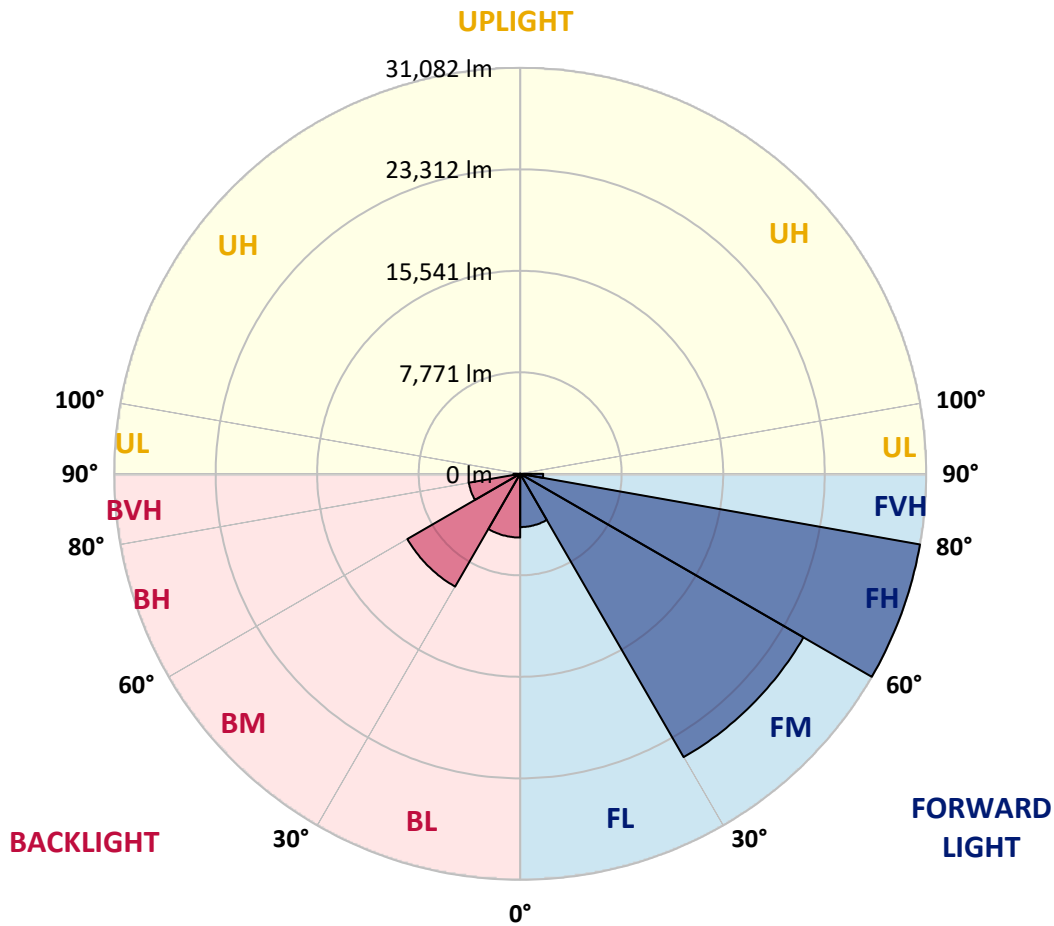
CATALOG NUMBER: GALN-SB8D-735-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4078.4	5.0			
FM (30°-60°)	25044.6	30.8			
FH (60°-80°)	31082.3	38.2			G5
FVH (80°-90°)	1768.6	2.2			G5
BL (0°-30°)	4877.5	6.0	B4/5000		
BM (30°-60°)	9972.4	12.3	B5		
BH (60°-80°)	3990.2	4.9	B4/5000		G4/5000
BVH (80°-90°)	514.0	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: P944019
 CATALOG NUMBER: GALN-SB8D-735-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	10837.5	10837.5	10837.5	10837.5	10837.5	10837.5	10837.5	10837.5	10837.5	10837.5
2.5°	9993.4	10054.9	10081.3	10068.1	10134.1	10125.3	10217.6	10331.9	10490.2	10644.1
5°	9224.0	9289.9	9347.1	9399.8	9527.3	9566.9	9712.0	9931.8	10222.0	10516.6
7.5°	8507.3	8564.5	8652.4	8749.1	8964.6	9004.1	9246.0	9588.9	9993.4	10424.2
10°	7922.6	7979.7	8072.1	8182.0	8450.2	8498.5	8806.3	9263.5	9791.1	10336.3
12.5°	7672.0	7689.6	7742.3	7852.2	8085.3	8116.0	8454.6	8977.8	9593.3	10270.4
15°	7658.8	7694.0	7698.4	7755.5	7949.0	7962.2	8274.3	8793.1	9470.2	10257.2
17.5°	7790.7	7817.1	7777.5	7812.7	7975.3	7997.3	8243.5	8705.2	9430.6	10314.3
20°	8142.4	8164.4	8045.7	7997.3	8116.0	8133.6	8375.4	8762.3	9470.2	10433.0
22.5°	8889.8	8903.0	8612.8	8415.0	8423.8	8432.6	8643.6	8995.3	9624.1	10648.5
25°	10054.9	10046.1	9584.5	9202.0	8982.2	8933.8	9074.5	9373.5	9883.5	10934.2
27.5°	11417.9	11351.9	10890.3	10318.7	9839.5	9769.1	9738.4	9865.9	10252.8	11312.3
30°	12956.6	12895.1	12398.3	11650.9	10987.0	10872.7	10582.5	10516.6	10802.3	11826.7
32.5°	14644.9	14605.4	14011.8	13106.1	12218.0	12086.1	11598.1	11422.2	11646.5	12604.9
35°	16060.6	16025.4	15533.0	14601.0	13515.0	13352.3	12855.5	12657.7	12772.0	13602.9
37.5°	17340.0	17322.4	16900.4	16166.1	15045.0	14847.2	14288.8	14222.9	14200.9	14917.5
40°	18527.1	18483.1	18043.5	17656.6	16825.6	16645.4	16152.9	16095.8	15928.7	16535.4
42.5°	19841.6	19727.3	19089.8	18909.6	18685.4	18535.9	18241.3	18250.1	17880.8	18360.0
45°	20914.4	20848.5	20193.4	20087.9	20329.7	20268.1	20523.1	20589.1	19872.4	20272.5
47.5°	22066.3	22004.8	21450.8	21376.0	22031.1	22048.7	22950.0	22972.0	21815.7	22259.8
50°	23486.4	23398.5	22848.9	22941.2	23675.4	23741.4	25390.1	25240.6	23605.1	24277.8
52.5°	24422.9	24475.6	24356.9	24506.4	25508.8	25570.4	27790.6	27408.1	25376.9	26269.4
55°	25113.1	25218.6	25587.9	25930.9	27443.3	27504.8	30054.8	29470.1	26845.4	28116.0
57.5°	26001.2	25851.7	26542.0	27210.3	29281.1	29443.7	32257.5	31457.3	28146.7	29707.5
60°	27276.2	27170.7	27707.1	28696.3	31338.6	31598.0	34587.7	33246.7	29100.8	30969.3
62.5°	29861.4	29597.6	29681.1	30556.1	33932.6	34275.5	37216.8	34807.5	29575.6	31461.7
65°	33726.0	33273.1	32851.1	33457.8	37586.1	37924.7	40184.5	36034.2	29399.8	30507.7
67.5°	38593.0	38144.5	37625.7	38197.3	42967.5	43235.7	43846.8	36724.4	28014.8	26832.2
70°	42607.0	42439.9	43059.9	45412.0	51562.8	51571.6	48542.4	36152.9	24220.6	19023.9
72.5°	42075.0	41973.9	45240.5	52512.4	62395.9	62162.9	52987.3	31826.7	16315.6	8582.1
75°	34517.3	35172.4	40232.9	52384.9	66286.8	66256.1	50265.8	20232.9	6748.7	3556.8
77.5°	18509.5	19547.1	26119.9	38676.5	51747.4	52525.6	35339.5	7078.5	2897.3	2277.4
80°	6036.5	6942.2	10411.0	19692.2	33624.8	33479.8	15146.1	2778.6	1982.8	1613.5
82.5°	2563.2	2668.7	4651.6	9298.7	17256.5	16988.3	4823.0	1595.9	1393.7	1103.5
85°	1002.4	1121.1	2053.2	4299.8	7474.1	7311.5	1741.0	791.4	892.5	721.0
87.5°	329.7	400.1	734.2	1472.8	2325.8	2242.2	426.5	272.6	386.9	329.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944019
 CATALOG NUMBER: GALN-SB8D-735-U-T4FT

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
10837.5	0°	10837.5	10837.5	10837.5	10837.5	10837.5	10837.5	10837.5	10837.5	10837.5	10837.5
10868.3	2.5°	10929.8	11000.2	11083.7	11206.8	11312.3	11400.3	11492.6	11549.7	11571.7	11637.7
10885.9	5°	11009.0	11162.9	11369.5	11571.7	11769.6	11888.3	11993.8	12046.6	12094.9	12130.1
10934.2	7.5°	11140.9	11338.7	11664.1	11927.9	12094.9	12191.6	12262.0	12244.4	12262.0	12270.8
10987.0	10°	11255.2	11532.2	11919.1	12169.7	12297.2	12301.6	12284.0	12222.4	12191.6	12196.0
11066.1	12.5°	11391.5	11699.2	12116.9	12327.9	12363.1	12266.4	12191.6	12086.1	12046.6	12029.0
11184.8	15°	11576.1	11927.9	12332.3	12411.5	12323.5	12200.4	12072.9	11901.5	11813.5	11743.2
11387.1	17.5°	11800.4	12187.2	12499.4	12442.2	12253.2	12051.0	11844.3	11584.9	11404.7	11329.9
11664.1	20°	12112.5	12459.8	12626.9	12376.3	12090.5	11782.8	11431.0	11114.5	10947.4	10872.7
12015.8	22.5°	12490.6	12824.7	12750.0	12262.0	11857.5	11365.1	10925.4	10692.4	10608.9	10556.1
12468.6	25°	12943.5	13229.2	12837.9	12094.9	11475.0	10811.1	10472.6	10397.9	10358.3	10318.7
13022.6	27.5°	13532.6	13686.5	12903.9	11848.7	10877.1	10222.0	10098.9	10112.1	10098.9	10032.9
13792.0	30°	14310.8	14280.0	12965.4	11448.6	10191.2	9690.0	9698.8	9756.0	9764.7	9720.8
14864.7	32.5°	15335.2	15023.0	12996.2	10929.8	9536.1	9224.0	9232.8	9294.3	9338.3	9263.5
16267.3	35°	16575.0	15889.1	12947.9	10279.1	9030.5	8779.9	8714.0	8731.6	8744.7	8674.4
17968.7	37.5°	18021.5	16860.8	12732.4	9558.1	8612.8	8344.7	8204.0	8085.3	8014.9	7949.0
19894.4	40°	19608.6	17920.4	12336.7	8854.7	8146.8	7883.0	7672.0	7447.8	7210.3	7122.4
21934.4	42.5°	21270.5	19010.7	11857.5	8182.0	7610.4	7395.0	7170.8	6845.4	6489.3	6309.1
24053.5	45°	22994.0	20127.4	11387.1	7518.1	7060.9	6968.5	6709.1	6317.8	5931.0	5702.3
26177.1	47.5°	24682.3	21182.6	10696.8	6849.8	6546.5	6647.6	6445.3	6084.8	5654.0	5293.5
28283.0	50°	26295.8	22171.8	9566.9	6172.8	6128.8	6550.9	6357.4	5838.6	5346.2	4884.6
30349.4	52.5°	27896.1	22972.0	8120.4	5557.2	5904.6	6524.5	6243.1	5671.6	5069.2	4585.6
32292.7	55°	29254.7	23385.3	6726.7	5029.7	5579.2	6300.3	6106.8	5473.7	4677.9	4163.5
33624.8	57.5°	30028.5	23051.1	5566.0	4510.9	5130.8	5931.0	5873.8	5051.6	4211.9	3816.2
33884.2	60°	29694.3	21697.0	4616.4	4058.0	4704.3	5530.9	5469.3	4634.0	3855.8	3482.1
32494.9	62.5°	27852.2	19116.2	3864.6	3662.3	4317.4	5122.0	5064.8	4313.0	3583.2	3222.7
28806.2	65°	24141.5	15550.6	3279.8	3332.6	3926.1	4629.6	4713.1	4044.8	3367.8	3016.0
22286.1	67.5°	18412.8	11264.0	2822.6	3046.8	3543.6	4146.0	4387.8	3851.4	3187.5	2853.4
12895.1	70°	10494.6	6397.0	2435.7	2769.8	3205.1	3697.5	4137.2	3697.5	2994.1	2717.1
4831.8	72.5°	3978.9	2936.9	2105.9	2492.8	2879.7	3319.4	3860.2	3455.7	2769.8	2563.2
2497.2	75°	2123.5	1789.4	1771.8	2167.5	2506.0	2950.1	3512.8	3218.3	2602.8	2708.3
1727.8	77.5°	1446.5	1266.2	1481.6	1855.3	2097.2	2541.2	3143.5	2857.8	2255.4	2246.6
1195.9	80°	1002.4	896.9	1204.7	1494.8	1622.3	2136.7	2743.4	2453.3	1837.8	1714.7
738.6	82.5°	602.3	584.7	901.3	1116.7	1147.5	1648.7	2273.0	2057.6	1503.6	1310.2
439.7	85°	329.7	347.3	575.9	655.1	668.3	1151.9	1780.6	1591.6	1156.3	971.6
158.3	87.5°	92.3	118.7	211.0	259.4	320.9	597.9	1059.6	945.3	580.3	404.5
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°
10837.5
11633.3
12138.9
12284.0
12204.8
12020.2
11765.2
11334.3
10863.9
10564.9
10318.7
10046.1
9742.8
9298.7
8722.8
7992.9
7162.0
6331.0
5684.7
5253.9
4845.0
4532.8
4119.6
3763.5
3429.3
3165.5
2958.9
2800.6
2681.9
2528.0
2796.2
2070.8
1639.9
1319.0
980.4
404.5
0.0

F REPORT)