

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: P957660

Luminaire Tested: **GALN-SB9D-940-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957660
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-940-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67033 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

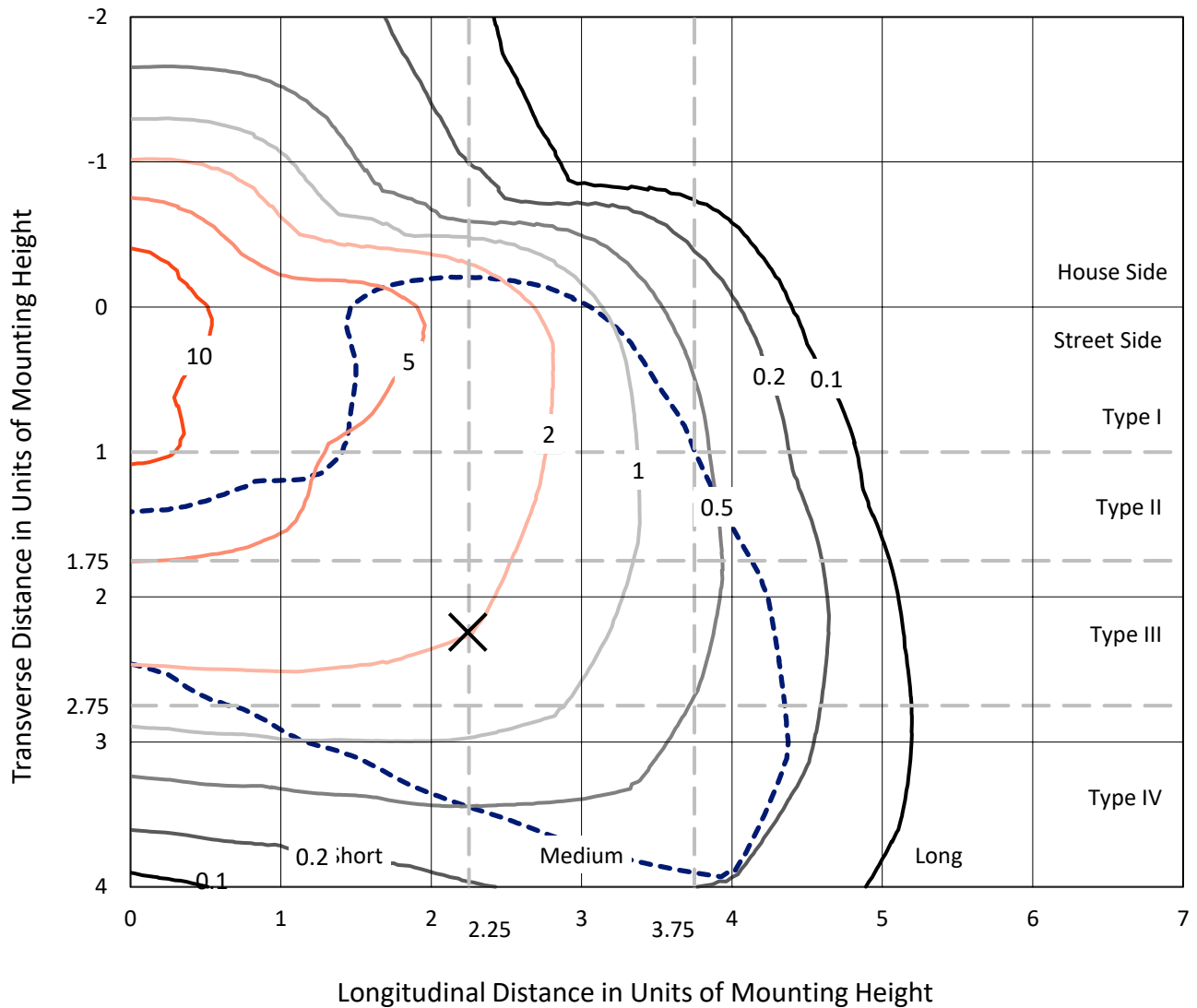
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P957660
 CATALOG NUMBER: GALN-SB9D-940-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

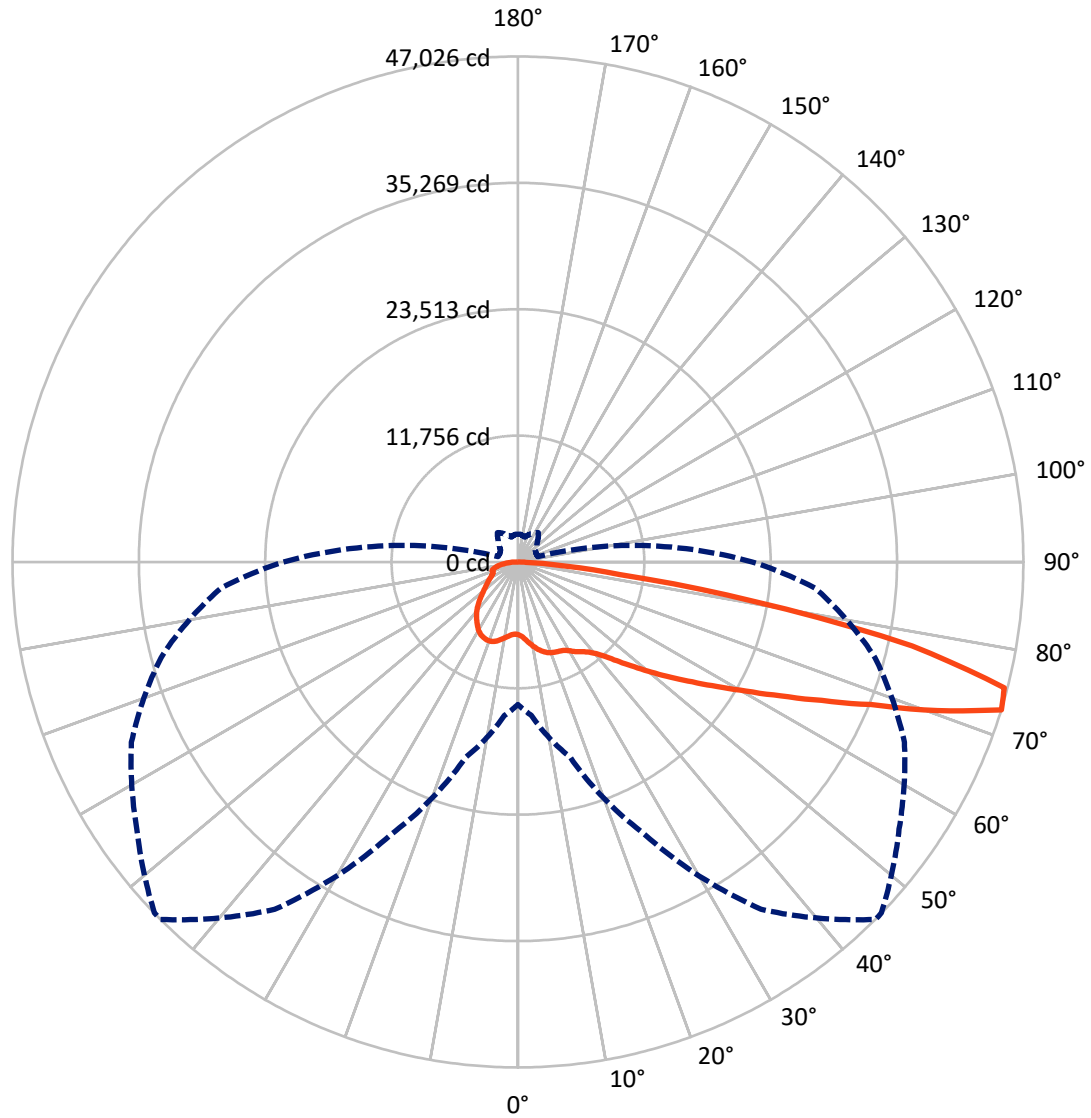
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P957660
CATALOG NUMBER: GALN-SB9D-940-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P957660
 CATALOG NUMBER: GALN-SB9D-940-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15153.9	0.0	15153.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	51879.1	0.0	51879.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	67033.0	0.0	67033.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	688.3	1.0
10°-20°	2294.8	3.4
20°-30°	3991.9	6.0
30°-40°	5722.6	8.5
40°-50°	8057.8	12.0
50°-60°	12342.2	18.4
60°-70°	17879.4	26.7
70°-80°	14277.8	21.3
80°-90°	1778.2	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°	67033.0	100.0
0°-180°	67033.0	100.0

Coefficient of Utilization



REPORT NUMBER: P957660

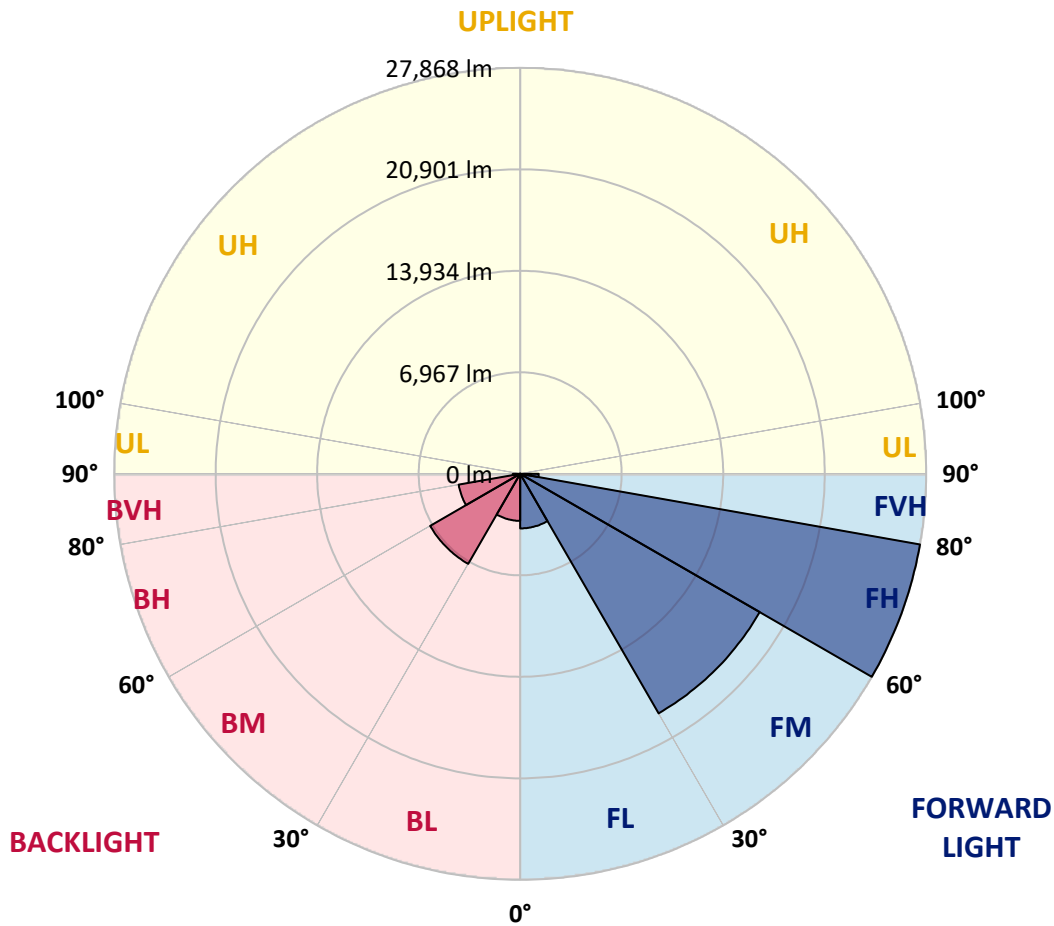
CATALOG NUMBER: GALN-SB9D-940-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3748.6	5.6			
FM (30°-60°)	18987.2	28.3			
FH (60°-80°)	27867.6	41.6			G5
FVH (80°-90°)	1275.7	1.9			G5
BL (0°-30°)	3226.4	4.8	B4/5000		
BM (30°-60°)	7135.3	10.6	B4/8500		
BH (60°-80°)	4289.7	6.4	B4/5000		G4/5000
BVH (80°-90°)	502.5	0.7			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



REPORT NUMBER: P957660

CATALOG NUMBER: GALN-SB9D-940-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3
2.5°	7027.2	7073.1	7030.7	6991.9	6974.2	6928.3	6924.8	6896.5	6878.9	6829.4
5°	7518.0	7578.0	7507.4	7429.7	7359.1	7246.1	7232.0	7150.8	7058.9	6953.0
7.5°	8072.4	8125.4	8044.2	7927.6	7804.0	7616.9	7613.4	7465.0	7320.3	7140.2
10°	8556.2	8626.8	8517.4	8358.4	8203.1	7991.2	7966.5	7797.0	7613.4	7380.3
12.5°	8983.5	9032.9	8927.0	8732.8	8552.7	8340.8	8309.0	8121.9	7917.0	7652.2
15°	9322.5	9386.0	9244.8	9036.4	8845.8	8637.4	8609.2	8439.7	8234.9	7955.9
17.5°	9544.9	9597.9	9453.1	9220.1	9036.4	8863.4	8842.2	8701.0	8520.9	8238.4
20°	9629.7	9686.2	9534.3	9297.8	9128.3	8994.1	8983.5	8881.1	8757.5	8499.7
22.5°	9714.4	9767.4	9569.7	9322.5	9174.2	9089.4	9085.9	9018.8	8969.4	8757.5
25°	10057.0	10071.1	9806.3	9449.6	9237.7	9163.6	9160.0	9156.5	9177.7	9011.7
27.5°	10353.6	10350.1	10124.1	9788.6	9460.2	9304.8	9301.3	9336.6	9403.7	9266.0
30°	10787.9	10749.1	10480.7	10131.1	9831.0	9590.8	9569.7	9537.9	9590.8	9481.4
32.5°	11709.6	11586.0	11151.7	10530.2	10138.2	9954.6	9926.3	9728.6	9749.8	9682.7
35°	13030.3	12867.8	12288.7	11285.8	10519.6	10258.3	10244.1	9993.4	9951.0	9891.0
37.5°	14601.7	14400.4	13725.9	12380.5	11176.4	10611.4	10590.2	10364.2	10191.2	10127.6
40°	16180.1	15925.9	15368.0	13715.3	12143.9	11201.1	11134.0	10791.5	10593.7	10487.8
42.5°	17712.7	17500.8	17024.1	15212.6	13337.5	12062.7	11914.4	11328.2	11179.9	11081.0
45°	19068.7	18878.0	18528.4	16812.2	14735.9	13235.1	13090.3	12133.3	12087.4	12087.4
47.5°	20170.4	20128.1	19757.3	18443.7	16385.0	14569.9	14319.2	13252.7	13376.3	13567.0
50°	21392.3	21275.7	20880.2	20050.4	18323.6	16098.9	15894.1	14626.4	15089.0	15611.6
52.5°	22515.2	22578.7	22137.3	21724.2	20513.0	17804.5	17444.3	16247.2	17246.6	18111.7
55°	23669.9	23673.4	23549.8	23493.3	22808.3	19690.2	19294.7	18196.5	19785.5	20859.0
57.5°	24754.0	24761.1	24944.7	25442.6	25470.8	21865.4	21417.0	20590.7	22607.0	23701.7
60°	25721.6	25771.0	26272.4	27437.7	27812.0	24358.5	23934.7	23419.2	25523.8	26625.6
62.5°	26046.4	26226.5	27342.4	28998.5	30125.0	27416.5	26999.9	26692.6	28588.9	29613.0
65°	25495.6	25908.7	28066.3	30287.4	32505.1	31050.2	30637.0	30301.6	31774.1	32738.1
67.5°	24143.1	24676.3	28023.9	31639.9	35393.6	35421.9	35037.0	34249.5	35188.8	35559.6
70°	20580.1	21378.1	25555.6	32144.9	38709.5	41400.3	41029.5	39002.5	38596.5	36802.6
72.5°	13259.8	14333.3	18818.0	27988.6	39447.5	47025.5	47004.3	43293.0	39673.5	34387.2
75°	4837.8	5494.6	8743.4	17567.9	33112.4	46739.5	46877.2	42558.5	36216.4	26562.0
77.5°	1762.1	1928.1	2853.2	6751.7	20364.7	37501.8	37787.8	34023.5	25778.1	13330.4
80°	925.2	1017.0	1461.9	2620.2	8725.7	22271.5	22720.0	20219.9	12115.7	4015.0
82.5°	512.0	554.4	819.2	1423.1	3930.3	9523.8	9792.1	7987.7	4262.2	1702.1
85°	275.4	293.1	384.9	776.9	1921.0	3301.7	3375.9	2387.1	1698.5	999.3
87.5°	81.2	98.9	127.1	247.2	752.2	741.6	759.2	473.2	670.9	505.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P957660
 CATALOG NUMBER: GALN-SB9D-940-U-T4W

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6762.3	0°	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3	6762.3
6815.3	2.5°	6794.1	6783.5	6744.7	6727.0	6705.8	6702.3	6720.0	6723.5	6727.0	6730.5
6893.0	5°	6857.7	6822.4	6787.0	6765.9	6772.9	6776.4	6811.8	6836.5	6854.1	6868.3
7037.8	7.5°	6981.3	6953.0	6893.0	6889.4	6900.0	6931.8	6977.7	7034.2	7066.0	7090.7
7224.9	10°	7164.9	7111.9	7041.3	7051.9	7073.1	7119.0	7214.3	7260.2	7313.2	7359.1
7454.4	12.5°	7352.0	7306.1	7224.9	7232.0	7267.3	7348.5	7440.3	7496.8	7532.1	7567.4
7701.6	15°	7595.7	7514.5	7426.2	7426.2	7489.8	7578.0	7620.4	7666.3	7687.5	7726.4
7966.5	17.5°	7846.4	7740.5	7623.9	7616.9	7694.6	7736.9	7761.7	7768.7	7775.8	7818.2
8224.3	20°	8097.1	7980.6	7814.6	7800.5	7818.2	7811.1	7807.6	7800.5	7811.1	7864.1
8489.1	22.5°	8344.3	8210.1	7980.6	7917.0	7867.6	7800.5	7797.0	7793.4	7800.5	7853.5
8775.1	25°	8633.9	8471.4	8164.2	7973.5	7807.6	7715.8	7726.4	7729.9	7736.9	7779.3
9071.8	27.5°	8948.2	8768.1	8333.7	7955.9	7655.7	7592.2	7574.5	7585.1	7609.8	7676.9
9368.4	30°	9262.4	9050.6	8489.1	7885.3	7465.0	7376.8	7320.3	7345.0	7422.7	7489.8
9626.2	32.5°	9548.5	9336.6	8612.7	7729.9	7221.4	7083.7	7009.5	7041.3	7119.0	7143.7
9912.2	35°	9883.9	9643.8	8665.7	7482.7	6956.5	6744.7	6645.8	6599.9	6638.7	6614.0
10247.7	37.5°	10258.3	10007.5	8658.6	7157.8	6645.8	6402.1	6264.4	6091.4	6010.2	5925.4
10742.0	40°	10812.7	10452.5	8573.9	6765.9	6260.9	6038.4	5791.2	5498.1	5314.5	5148.5
11540.1	42.5°	11568.3	11070.4	8418.5	6335.0	5826.5	5618.2	5282.7	4940.2	4650.6	4375.2
12751.3	45°	12694.8	11879.1	8224.3	5876.0	5356.9	5152.1	4788.4	4403.5	4075.1	3721.9
14471.0	47.5°	14319.2	12966.7	8040.6	5353.4	4862.5	4675.4	4347.0	3990.3	3601.9	3259.3
16957.0	50°	16550.9	14527.5	7871.1	4844.9	4375.2	4234.0	3972.6	3608.9	3217.0	2941.5
19870.3	52.5°	19390.0	16649.8	7800.5	4354.0	3919.7	3866.7	3658.4	3319.4	2948.6	2715.5
23267.3	55°	22649.4	19188.8	7800.5	3884.4	3520.6	3538.3	3393.5	3079.2	2757.9	2549.6
26770.3	57.5°	25975.8	21759.5	7659.3	3450.0	3181.6	3255.8	3164.0	2888.6	2599.0	2383.6
30453.4	60°	29040.9	23913.6	7087.2	3054.5	2881.5	2998.0	2938.0	2701.4	2348.3	2168.2
33532.7	62.5°	31396.3	25128.3	5985.5	2740.2	2634.3	2768.5	2736.7	2454.2	2302.4	2228.2
36061.0	65°	32575.7	24930.6	4576.5	2461.3	2426.0	2634.3	2567.2	2556.6	2436.6	2351.8
36883.8	67.5°	31851.8	23228.5	3319.4	2256.5	2305.9	2510.7	2768.5	2810.9	2588.4	2422.4
34567.3	70°	28677.2	20149.3	2471.9	2062.2	2154.1	2514.2	3156.9	2941.5	2539.0	2344.7
27723.8	72.5°	21816.0	15025.4	1917.5	1857.4	1956.3	2531.9	3330.0	2881.5	2397.7	2591.9
17271.3	75°	12475.9	8249.0	1539.6	1606.7	1709.1	2365.9	3241.7	2726.1	2288.2	2380.1
6843.5	77.5°	4756.6	3171.1	1271.2	1359.5	1373.7	2065.8	3100.4	2715.5	2178.8	2125.8
2051.7	80°	1649.1	1239.5	1052.3	1080.6	1062.9	1836.2	2973.3	2362.4	1783.3	1596.1
847.5	82.5°	674.5	618.0	833.4	798.1	755.7	1426.6	2401.2	1931.6	1458.4	1288.9
409.6	85°	293.1	392.0	550.9	483.8	437.9	988.7	1924.5	1635.0	1232.4	1062.9
134.2	87.5°	60.0	148.3	233.1	218.9	226.0	660.3	1366.6	1161.8	872.2	653.3
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°
6762.3
6744.7
6875.3
7097.8
7348.5
7581.6
7740.5
7832.3
7885.3
7888.8
7835.8
7744.0
7563.9
7232.0
6691.7
5978.4
5159.1
4350.5
3679.6
3220.5
2923.9
2697.9
2528.4
2348.3
2139.9
2203.5
2323.6
2394.2
2313.0
2570.7
2380.1
1938.7
1543.2
1274.8
1059.4
512.0
0.0

F REPORT)