

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: P941368

Luminaire Tested: **GALN-SB4D-840-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29536 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

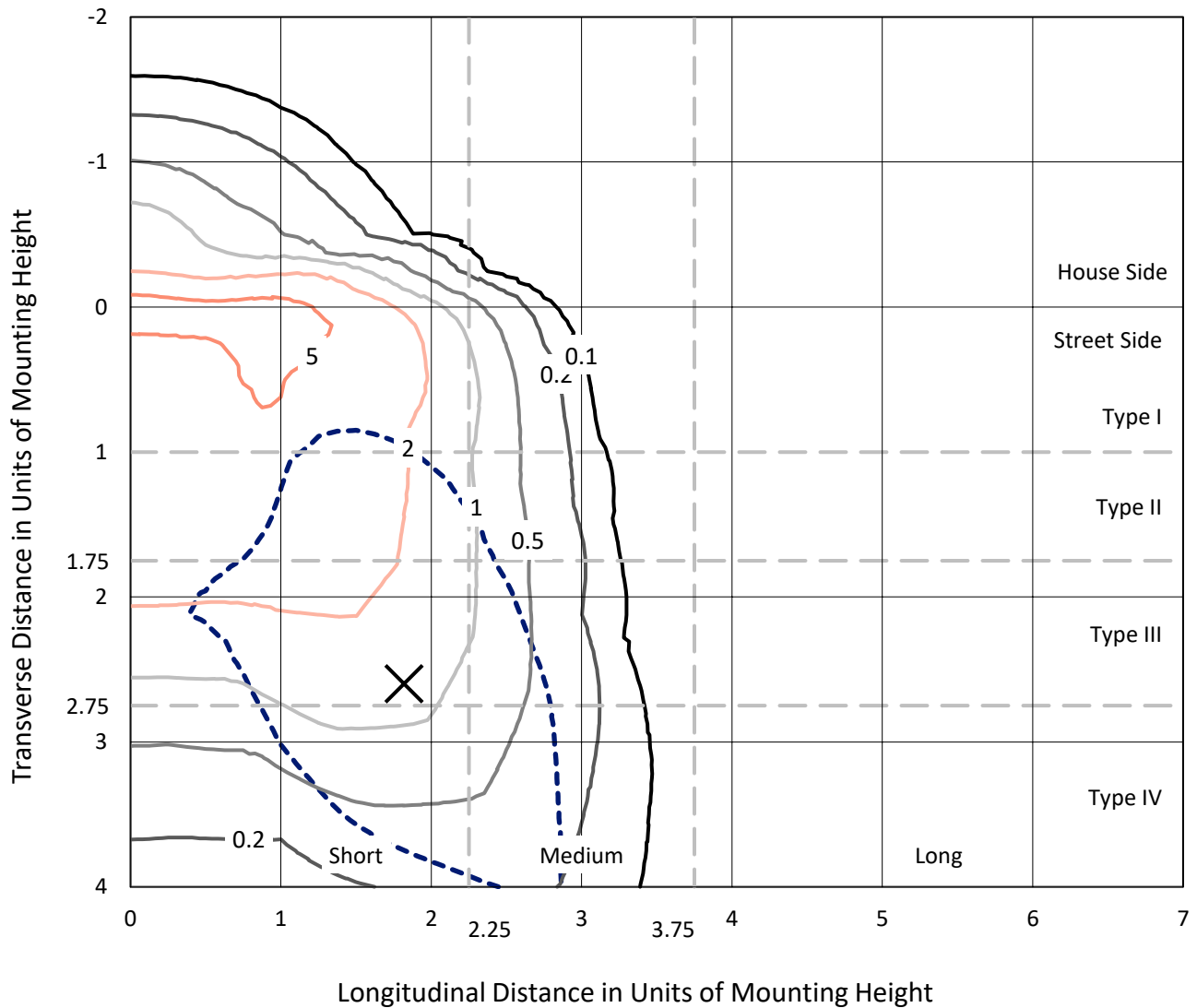
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941368
 CATALOG NUMBER: GALN-SB4D-840-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

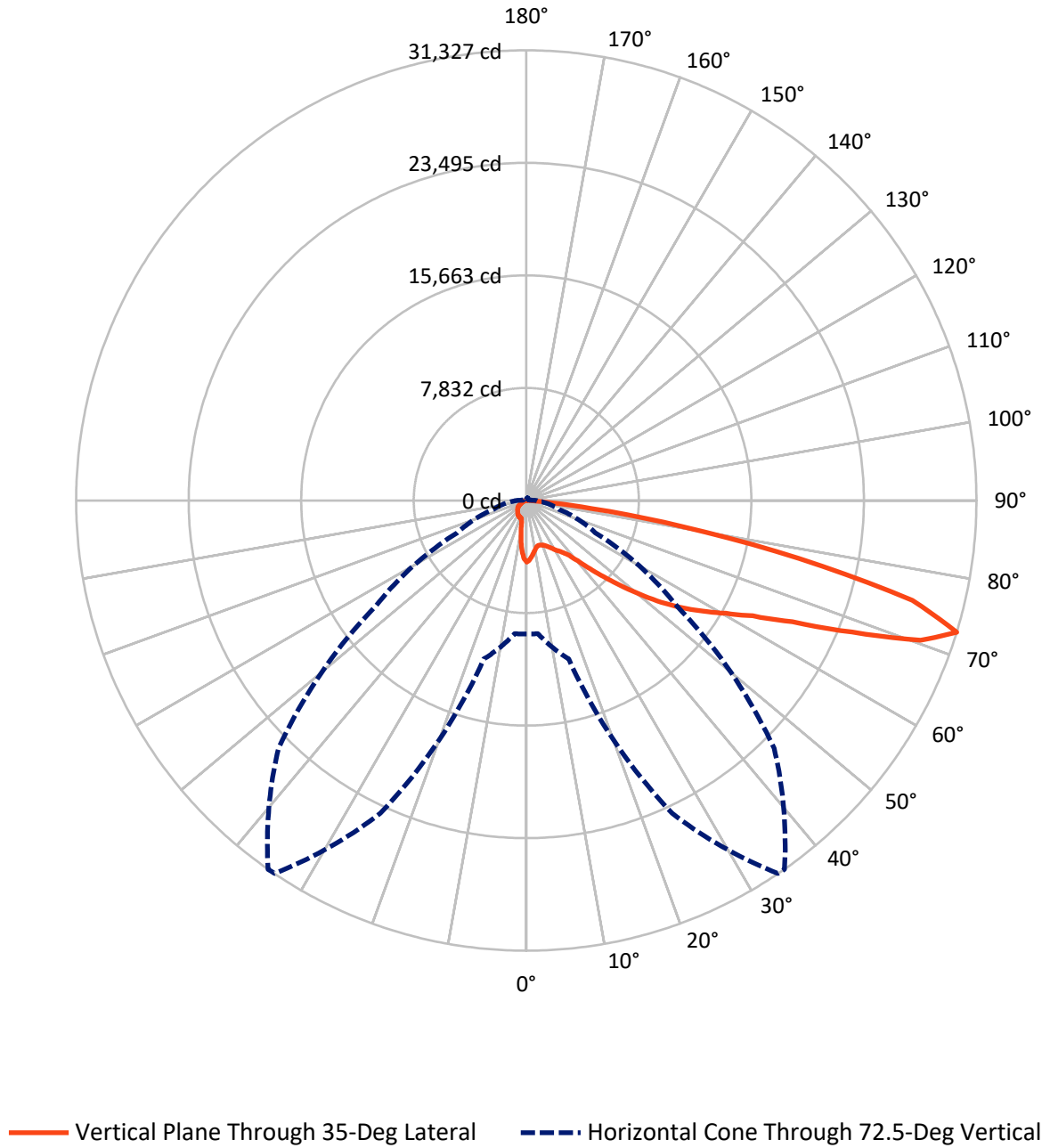
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P941368
CATALOG NUMBER: GALN-SB4D-840-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P941368
 CATALOG NUMBER: GALN-SB4D-840-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3324.1	0.0	3324.1
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	26211.9	0.0	26211.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	29536.0	0.0	29536.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.8	1.2
10°-20°	822.9	2.8
20°-30°	1336.8	4.5
30°-40°	2230.4	7.6
40°-50°	4220.0	14.3
50°-60°	6705.6	22.7
60°-70°	8295.3	28.1
70°-80°	5156.4	17.5
80°-90°	416.7	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°	29536.0	100.0
0°-180°	29536.0	100.0

Coefficient of Utilization



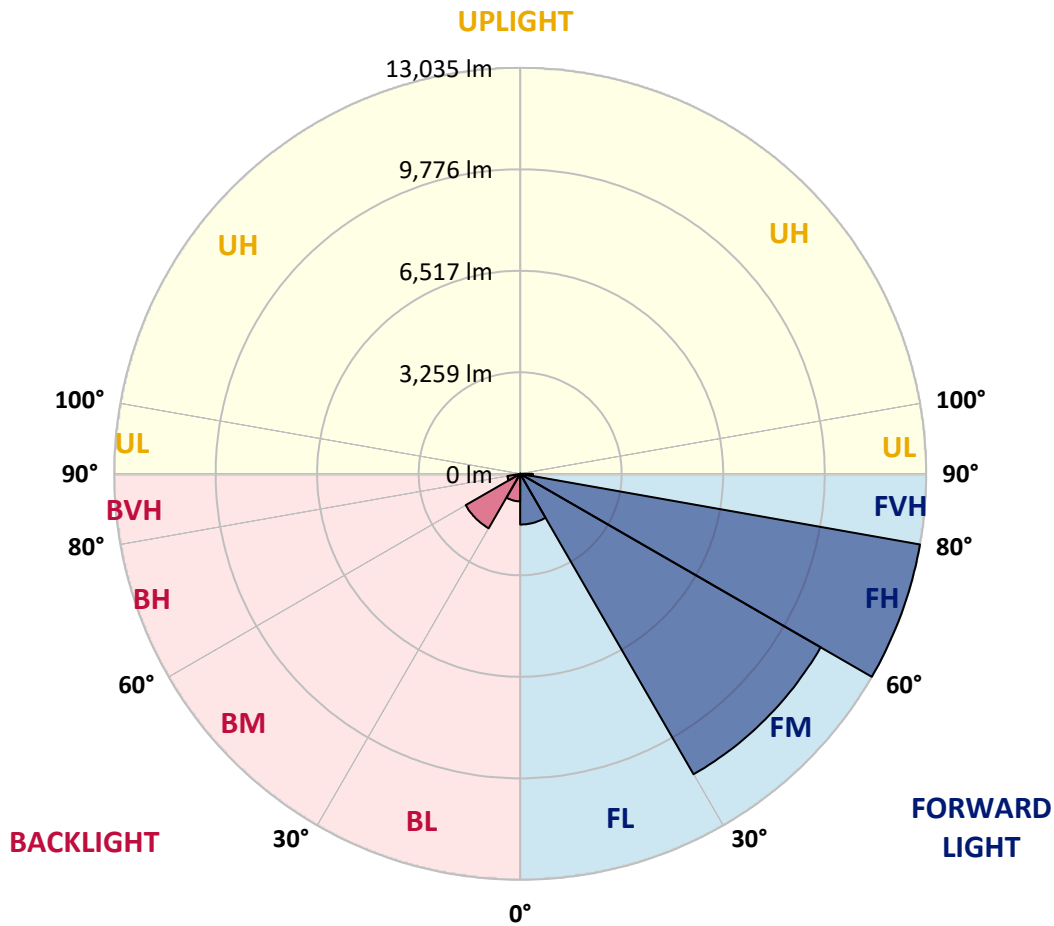
REPORT NUMBER: P941368
 CATALOG NUMBER: GALN-SB4D-840-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1628.2	5.5			
FM (30°-60°)	11138.0	37.7			
FH (60°-80°)	13034.6	44.1			G5
FVH (80°-90°)	411.1	1.4			G3/500
BL (0°-30°)	883.3	3.0	B2/1000		
BM (30°-60°)	2018.1	6.8	B2/2500		
BH (60°-80°)	417.1	1.4	B1/500		G1/500
BVH (80°-90°)	5.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



REPORT NUMBER: P941368
 CATALOG NUMBER: GALN-SB4D-840-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	4280.8	4280.8	4280.8	4280.8	4280.8	4280.8	4280.8	4280.8	4280.8	4280.8
2.5°	4090.3	4124.9	4131.4	4142.2	4142.2	4155.2	4176.9	4207.2	4257.0	4282.9
5°	3770.0	3796.0	3828.4	3854.4	3904.2	3910.7	3995.1	4077.3	4192.0	4278.6
7.5°	3447.5	3477.8	3521.1	3583.9	3648.8	3668.3	3796.0	3934.5	4116.3	4278.6
10°	3220.3	3222.5	3261.4	3324.2	3428.1	3451.9	3607.7	3804.6	4031.9	4252.6
12.5°	3092.6	3107.8	3125.1	3172.7	3272.2	3287.4	3454.0	3685.6	3947.5	4237.5
15°	3092.6	3103.4	3114.3	3138.1	3218.1	3231.1	3378.3	3609.9	3904.2	4244.0
17.5°	3125.1	3142.4	3133.7	3161.9	3246.3	3254.9	3384.8	3588.2	3902.0	4285.1
20°	3203.0	3216.0	3198.7	3216.0	3300.4	3317.7	3451.9	3629.3	3938.8	4356.5
22.5°	3326.4	3332.8	3291.7	3304.7	3391.3	3412.9	3568.7	3746.2	4027.5	4471.2
25°	3482.2	3495.2	3432.4	3447.5	3529.8	3555.8	3735.4	3921.5	4168.2	4629.2
27.5°	3661.8	3668.3	3614.2	3612.0	3718.1	3754.9	3936.7	4137.9	4356.5	4828.3
30°	3867.4	3886.9	3834.9	3826.3	3960.5	3990.8	4170.4	4404.1	4633.5	5127.0
32.5°	4029.7	4044.9	4014.6	4036.2	4172.5	4196.4	4453.9	4780.7	5068.5	5551.1
35°	4263.4	4272.1	4202.8	4241.8	4397.6	4458.2	4841.3	5308.7	5616.1	6083.5
37.5°	5109.6	5109.6	4815.3	4622.7	4772.0	4826.1	5371.5	5973.1	6291.3	6797.7
40°	6280.5	6261.0	5830.3	5436.4	5417.0	5523.0	6126.8	6810.7	7163.5	7654.7
42.5°	7529.2	7498.9	6912.4	6522.9	6457.9	6494.7	6999.0	7843.0	8202.3	8700.0
45°	8637.3	8628.6	8091.9	7568.2	7451.3	7568.2	8087.6	9050.6	9308.2	9831.9
47.5°	9565.7	9565.7	9174.0	8832.0	8771.4	8840.7	9561.4	10390.2	10366.4	11037.3
50°	10634.8	10626.1	10253.9	10106.7	10169.5	10266.9	11258.1	11801.3	11461.5	12221.1
52.5°	11383.6	11435.6	11307.9	11284.1	11604.4	11773.2	12980.8	13182.0	12441.9	13344.4
55°	11976.6	12037.2	12184.4	12351.0	12967.8	13188.5	14649.4	14491.4	13262.1	14318.2
57.5°	12816.3	12729.7	12957.0	13285.9	14283.6	14549.8	16266.0	15727.1	13922.2	15108.2
60°	13835.6	13848.6	13887.6	14303.1	15597.3	15939.2	17858.8	16895.8	14346.4	15592.9
62.5°	15060.6	15080.0	15160.1	15798.5	17361.1	17683.6	19555.6	17852.4	14541.2	15456.6
65°	14976.2	15058.4	15952.2	18135.9	20042.5	20360.6	21535.8	18523.3	14246.8	14210.0
67.5°	13643.0	13777.2	15272.6	20927.7	24085.2	24440.1	23929.4	18655.3	12976.4	11050.3
70°	11894.4	11942.0	13740.4	23438.1	28766.3	29125.6	26071.9	17203.1	9847.0	6163.6
72.5°	9288.7	9299.5	11409.6	24020.3	31307.1	31326.6	24390.4	12770.9	5295.8	2367.6
75°	6635.4	6570.5	7641.7	19479.8	27543.6	27764.3	18285.2	5990.5	2023.5	1118.9
77.5°	3557.9	3629.3	4324.0	11552.4	19027.5	19404.1	9976.9	1727.0	1030.2	761.8
80°	1099.4	1160.0	1772.5	5289.3	10777.6	11004.9	3698.6	768.3	718.5	543.2
82.5°	346.3	359.3	826.7	2222.6	4473.4	4577.2	1071.3	435.0	491.3	359.3
85°	99.6	101.7	367.9	828.9	1105.9	1127.5	300.8	168.8	281.3	222.9
87.5°	10.8	34.6	138.5	138.5	97.4	95.2	32.5	36.8	80.1	28.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941368
 CATALOG NUMBER: GALN-SB4D-840-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4280.8	0°	4280.8	4280.8	4280.8	4280.8	4280.8	4280.8	4280.8	4280.8	4280.8	4280.8
4300.2	2.5°	4289.4	4291.6	4263.4	4215.8	4163.9	4120.6	4066.5	4023.2	3992.9	3984.3
4339.2	5°	4319.7	4304.6	4224.5	4079.5	3906.4	3757.0	3590.4	3458.4	3371.8	3335.0
4380.3	7.5°	4365.2	4321.9	4146.6	3860.9	3529.8	3235.5	2936.8	2705.2	2558.1	2484.5
4419.3	10°	4404.1	4317.5	4016.7	3544.9	3038.5	2592.7	2190.2	1911.0	1755.2	1681.6
4464.7	12.5°	4440.9	4315.4	3847.9	3170.5	2484.5	1939.1	1564.7	1426.2	1382.9	1367.8
4538.3	15°	4510.2	4321.9	3635.8	2742.0	1932.6	1465.2	1328.8	1326.6	1335.3	1331.0
4650.8	17.5°	4605.4	4328.4	3395.6	2287.5	1491.1	1292.0	1285.5	1305.0	1318.0	1311.5
4791.5	20°	4728.7	4354.3	3140.2	1837.4	1281.2	1248.7	1263.9	1281.2	1292.0	1281.2
4979.8	22.5°	4901.9	4399.8	2861.1	1476.0	1214.1	1222.8	1235.7	1255.2	1266.0	1250.9
5220.0	25°	5114.0	4471.2	2586.2	1283.4	1181.6	1192.5	1211.9	1233.6	1246.6	1231.4
5523.0	27.5°	5388.8	4585.9	2333.0	1240.1	1149.2	1155.7	1183.8	1216.3	1233.6	1214.1
5953.7	30°	5787.0	4774.2	2114.4	1259.6	1129.7	1114.6	1153.5	1199.0	1218.4	1201.1
6540.2	32.5°	6315.1	5040.4	1980.2	1289.9	1121.0	1066.9	1103.7	1162.2	1194.6	1183.8
7306.3	35°	7007.6	5445.1	1928.3	1324.5	1114.6	1017.2	1043.1	1105.9	1162.2	1173.0
8271.5	37.5°	7847.3	6007.8	1943.4	1339.6	1095.1	976.0	989.0	1043.1	1116.7	1151.3
9357.9	40°	8801.7	6663.5	2030.0	1324.5	1073.4	941.4	943.6	984.7	1049.6	1101.6
10526.6	42.5°	9786.4	7429.6	2190.2	1268.2	1054.0	911.1	904.6	932.8	976.0	1012.8
11693.1	45°	10723.5	8217.4	2348.1	1190.3	1030.2	880.8	865.7	876.5	885.2	900.3
12829.3	47.5°	11541.6	8771.4	2302.7	1118.9	997.7	846.2	820.2	815.9	789.9	787.8
13844.3	50°	12106.4	8892.6	2045.2	1047.5	950.1	807.2	766.1	740.2	694.7	673.1
14603.9	52.5°	12286.1	8414.3	1670.8	976.0	872.2	755.3	696.9	655.7	599.5	580.0
15041.1	55°	12048.0	7477.3	1335.3	889.5	764.0	686.0	621.1	567.0	521.6	497.8
15088.7	57.5°	11465.8	6284.8	1056.1	787.8	649.3	608.1	543.2	489.1	450.2	426.3
14560.6	60°	10500.6	4990.6	835.4	666.6	554.0	523.7	456.6	422.0	387.4	359.3
13197.2	62.5°	9035.5	3562.2	655.7	528.1	463.1	428.5	389.6	363.6	322.5	283.5
10745.2	65°	7050.9	2179.3	506.4	387.4	372.2	354.9	331.1	307.3	257.5	218.6
7009.8	67.5°	4447.4	1032.3	361.4	292.2	294.3	285.7	274.9	255.4	218.6	184.0
3140.2	70°	1958.6	499.9	238.1	222.9	218.6	218.6	227.2	220.7	186.1	153.7
1090.7	72.5°	666.6	268.4	177.5	168.8	158.0	155.8	190.4	184.0	149.3	119.0
543.2	75°	348.4	179.6	129.9	121.2	95.2	114.7	151.5	142.8	106.0	77.9
359.3	77.5°	227.2	127.7	88.7	77.9	54.1	75.7	112.5	99.6	62.8	39.0
235.9	80°	142.8	84.4	51.9	36.8	26.0	41.1	60.6	43.3	23.8	8.7
138.5	82.5°	75.7	43.3	19.5	13.0	10.8	13.0	15.1	10.8	4.3	0.0
71.4	85°	30.3	15.1	6.5	4.3	2.2	0.0	4.3	2.2	0.0	0.0
13.0	87.5°	10.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
4280.8
3999.4
3348.0
2495.3
1683.7
1363.4
1328.8
1309.3
1279.0
1248.7
1229.3
1214.1
1199.0
1183.8
1173.0
1160.0
1118.9
1028.0
909.0
785.6
675.2
577.8
497.8
422.0
352.8
277.0
212.1
179.6
147.2
112.5
71.4
34.6
6.5
0.0
0.0
0.0
0.0

F REPORT)