

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: P949001

Luminaire Tested: **GALN-SB3D-850-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-850-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24727 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

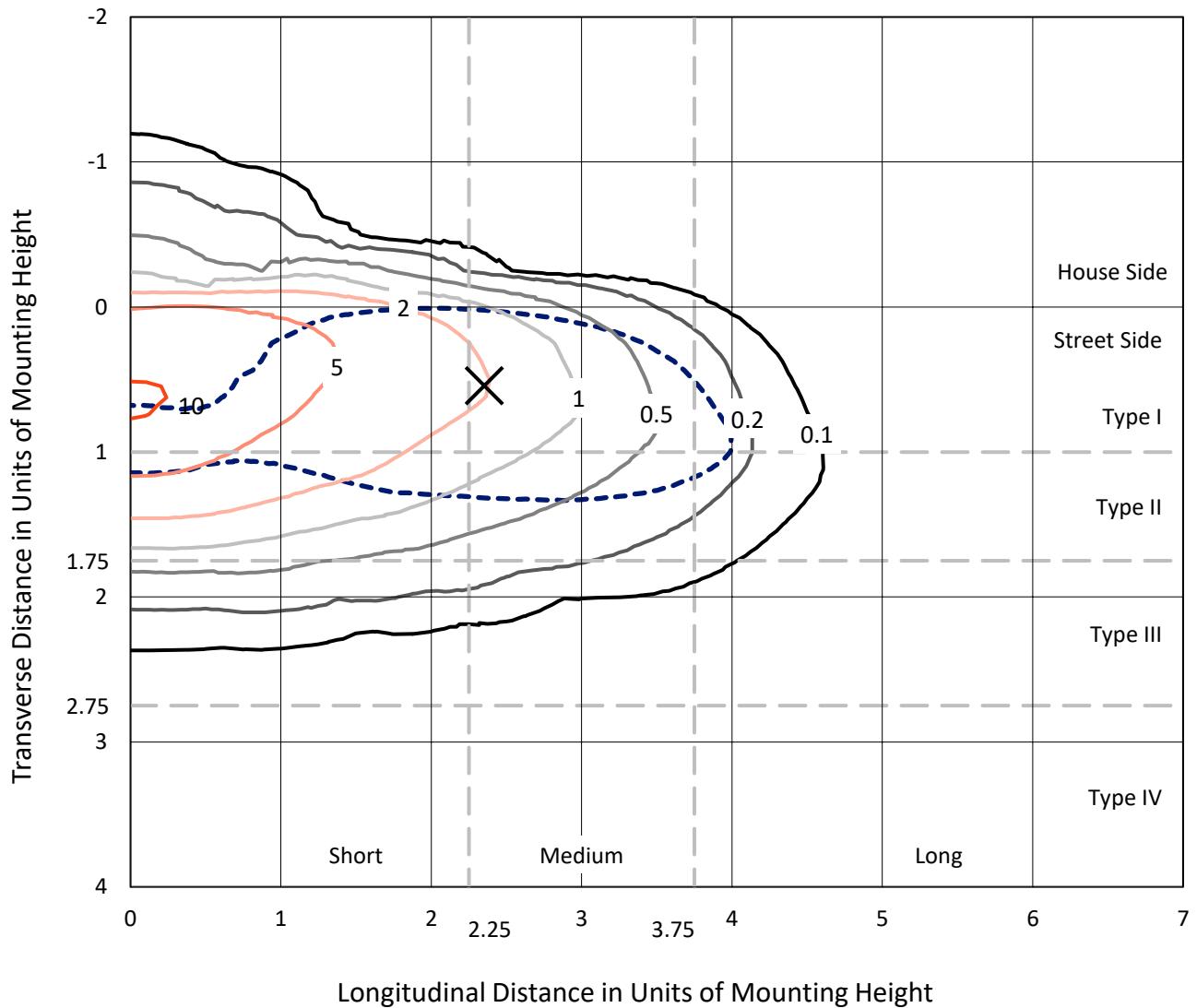
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949001
 CATALOG NUMBER: GALN-SB3D-850-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

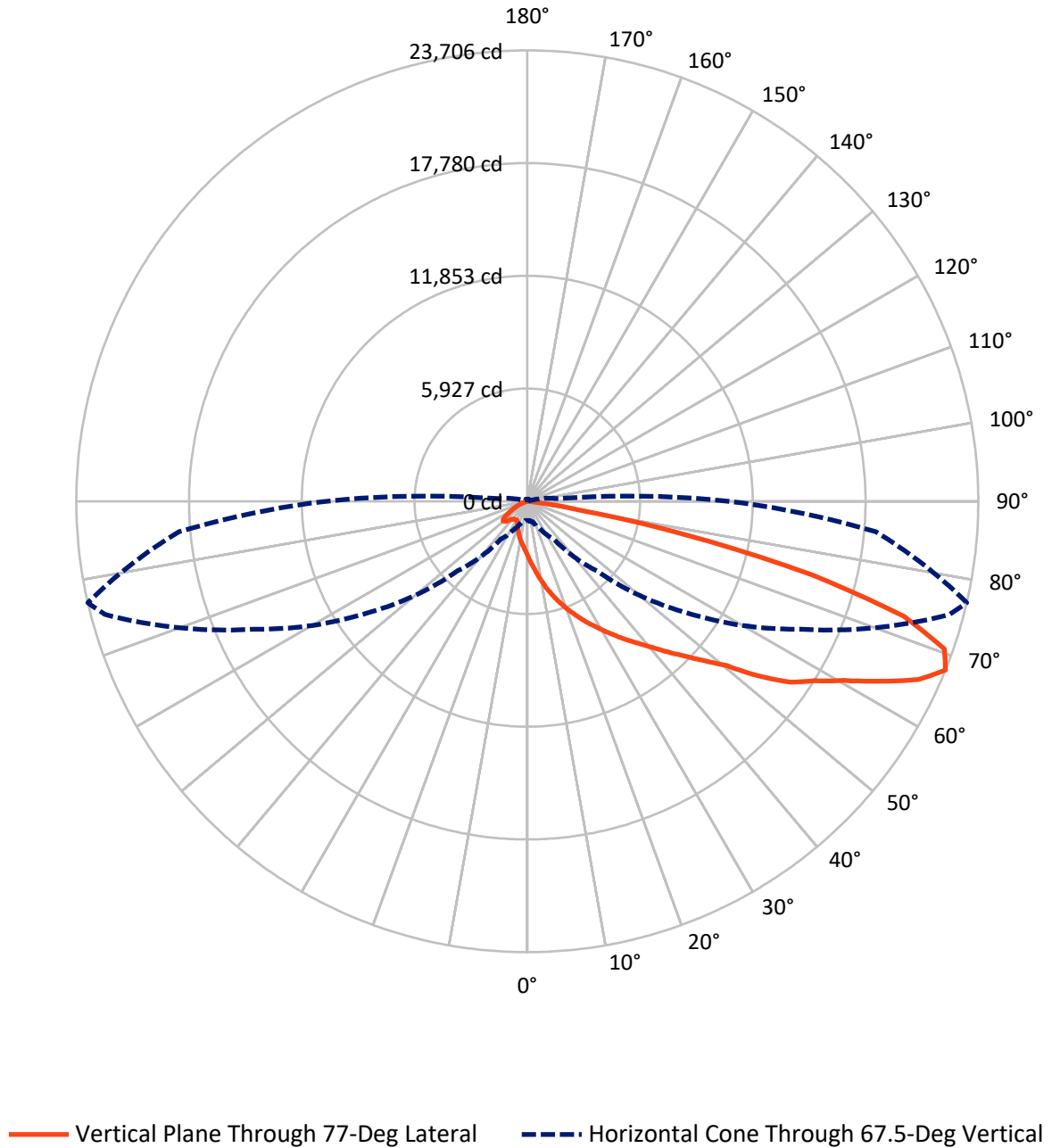
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P949001
CATALOG NUMBER: GALN-SB3D-850-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P949001
 CATALOG NUMBER: GALN-SB3D-850-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1819.2	0.0	1819.2
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	22907.8	0.0	22907.8
	% Fixture	92.6	0.0	92.6
Total	Lumens	24727.0	0.0	24727.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.0	1.2
10°-20°	1019.2	4.1
20°-30°	1966.7	8.0
30°-40°	3414.3	13.8
40°-50°	4957.4	20.0
50°-60°	5692.9	23.0
60°-70°	4942.5	20.0
70°-80°	2328.0	9.4
80°-90°	115.1	0.5
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°	24727.0	100.0
0°-180°	24727.0	100.0

Coefficient of Utilization



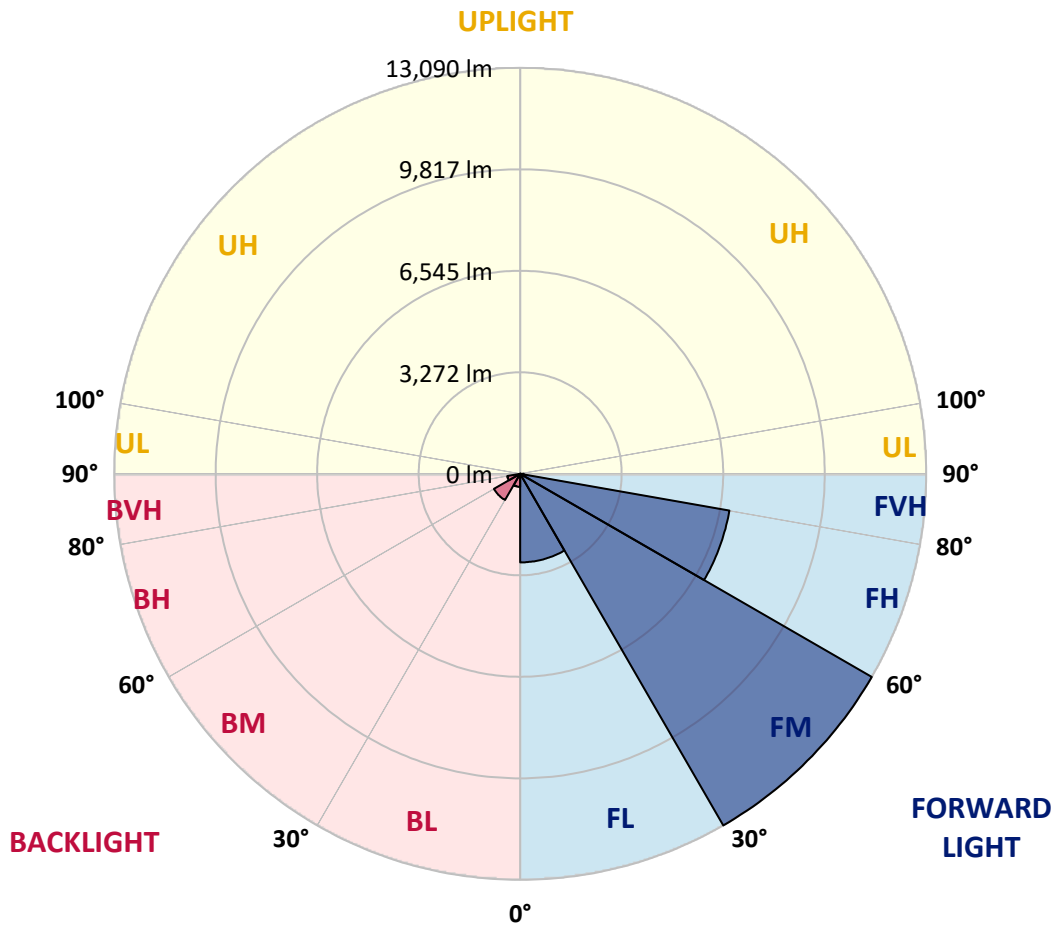
REPORT NUMBER: P949001
 CATALOG NUMBER: GALN-SB3D-850-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2855.7	11.5			
FM (30°-60°)	13089.8	52.9			
FH (60°-80°)	6849.3	27.7			G3/7500
FVH (80°-90°)	113.0	0.5			G2/225
BL (0°-30°)	421.2	1.7	B1/500		
BM (30°-60°)	974.7	3.9	B1/1000		
BH (60°-80°)	421.2	1.7	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



REPORT NUMBER: P949001
 CATALOG NUMBER: GALN-SB3D-850-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4
2.5°	3947.7	3972.3	3937.0	3869.4	3768.1	3702.0	3540.8	3388.8	3219.9	3166.2
5°	4812.2	4833.7	4793.8	4720.1	4584.9	4456.0	4244.1	3926.2	3596.1	3490.1
7.5°	5452.5	5464.8	5449.4	5381.9	5252.9	5107.0	4870.5	4494.4	4004.5	3887.8
10°	5913.1	5953.1	5948.4	5922.3	5836.4	5718.1	5466.3	5037.9	4462.1	4311.6
12.5°	6218.7	6263.2	6289.3	6347.7	6343.1	6267.8	6046.7	5593.8	4918.1	4741.6
15°	6307.8	6355.4	6455.2	6590.3	6710.0	6748.4	6593.4	6138.8	5420.2	5194.5
17.5°	6257.1	6330.8	6450.6	6664.0	6926.6	7100.1	7083.2	6665.5	5876.3	5618.3
20°	6369.2	6439.8	6533.5	6713.1	7018.7	7333.5	7459.4	7169.2	6329.2	6059.0
22.5°	6989.5	6977.2	6986.4	7015.6	7198.3	7510.0	7769.5	7626.7	6777.6	6501.2
25°	7972.2	7916.9	7823.3	7665.1	7619.1	7769.5	8039.8	8032.1	7250.5	6954.2
27.5°	9099.3	9090.0	8870.5	8489.7	8274.7	8216.4	8345.3	8426.7	7718.9	7402.5
30°	10178.7	10203.3	9906.9	9483.1	9088.5	8859.7	8743.0	8801.4	8194.9	7886.2
32.5°	11118.4	11144.5	10822.1	10326.1	9837.8	9561.4	9315.8	9171.4	8713.8	8377.6
35°	11912.3	11938.4	11568.3	11020.1	10499.6	10249.3	9971.4	9576.8	9235.9	8922.7
37.5°	12621.6	12614.0	12118.0	11565.2	11053.9	10855.8	10710.0	10075.8	9773.3	9470.8
40°	13040.8	13073.1	12649.3	12039.7	11543.7	11399.4	11390.2	10694.6	10393.7	10100.4
42.5°	13163.7	13220.5	12913.4	12412.8	11962.9	11806.3	12047.4	11364.1	11115.3	10829.7
45°	12942.6	12997.8	12858.1	12511.1	12248.5	12147.2	12612.4	12058.1	11886.2	11603.6
47.5°	12297.7	12366.8	12400.5	12326.8	12323.8	12426.6	13119.1	12789.0	12801.3	12512.6
50°	11049.3	11166.0	11476.2	11737.2	12141.0	12647.7	13612.0	13581.3	13833.1	13584.4
52.5°	8779.9	8945.7	10014.4	10728.4	11635.9	12606.3	14154.1	14852.7	15643.5	15279.6
55°	7055.5	7055.5	7924.6	9260.5	10650.1	12333.0	14390.5	15678.8	16876.5	16790.5
57.5°	5751.9	5821.0	6375.3	7556.1	9223.6	11681.9	14536.4	16197.8	17869.9	17807.0
60°	3550.0	3699.0	4746.2	5911.6	7600.6	10522.6	14444.3	16722.9	19075.3	19125.9
62.5°	1999.2	2054.5	2521.3	4253.3	5910.1	8964.1	13739.5	17016.2	20616.9	20831.9
65°	1380.4	1408.0	1587.7	2647.2	4096.7	7136.9	12362.2	16833.5	22161.6	22596.1
67.5°	1002.7	1016.5	1128.6	1616.9	2430.7	5174.6	10203.3	15912.2	22980.0	23706.3
70°	770.8	780.0	861.4	1062.6	1435.7	3193.8	7410.2	14080.4	22387.3	23254.8
72.5°	626.5	635.7	698.6	786.2	952.0	1888.6	4491.3	11434.7	19770.8	20707.5
75°	528.2	540.5	597.3	654.1	746.2	1213.0	2106.7	7963.0	14868.1	15482.2
77.5°	293.3	270.2	485.2	542.0	629.5	767.7	985.8	4686.3	8326.9	8497.3
80°	182.7	188.9	385.4	436.1	483.7	386.9	451.4	1804.2	2886.7	2742.4
82.5°	10.7	24.6	296.3	314.8	331.7	165.8	170.4	612.7	695.6	638.8
85°	0.0	0.0	135.1	109.0	115.2	47.6	49.1	142.8	93.7	101.3
87.5°	0.0	0.0	0.0	3.1	0.0	4.6	9.2	12.3	4.6	6.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949001
 CATALOG NUMBER: GALN-SB3D-850-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2851.4	0°	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4	2851.4
2997.3	2.5°	2889.8	2782.3	2564.3	2350.8	2177.3	2016.1	1900.9	1791.9	1736.6	1733.6
3190.7	5°	2977.3	2751.6	2315.5	1930.1	1619.9	1371.2	1210.0	1094.8	1036.4	1016.5
3428.7	7.5°	3100.1	2760.8	2097.5	1561.6	1196.1	982.7	890.6	853.7	841.4	827.6
3697.4	10°	3255.2	2782.3	1902.5	1257.6	942.8	835.3	798.4	783.1	773.9	764.7
3999.9	12.5°	3428.7	2802.3	1709.0	1044.1	829.2	773.9	747.8	729.4	717.1	706.3
4310.1	15°	3597.6	2814.5	1507.8	895.2	770.8	726.3	698.6	678.7	661.8	649.5
4614.1	17.5°	3765.0	2831.4	1319.0	806.1	723.2	678.7	651.0	626.5	612.7	598.8
4933.5	20°	3950.8	2828.4	1140.9	743.2	675.6	631.1	601.9	578.9	565.1	549.7
5271.3	22.5°	4122.8	2813.0	984.2	689.4	626.5	583.5	551.2	528.2	514.4	502.1
5616.8	25°	4320.8	2800.7	853.7	640.3	580.4	537.4	502.1	480.6	465.3	454.5
5963.8	27.5°	4511.2	2782.3	758.5	595.8	535.9	494.4	460.6	436.1	422.3	414.6
6321.6	30°	4698.6	2777.7	723.2	552.8	496.0	454.5	420.7	397.7	386.9	383.9
6714.7	32.5°	4924.3	2790.0	738.6	537.4	459.1	417.7	385.4	368.5	357.8	357.8
7152.3	35°	5165.4	2786.9	761.6	551.2	434.5	380.8	356.2	345.5	334.7	334.7
7637.5	37.5°	5467.8	2791.5	780.0	574.3	425.3	350.1	336.3	322.5	316.3	316.3
8168.8	40°	5919.3	2943.5	770.8	594.2	422.3	328.6	301.0	296.3	291.7	291.7
8769.1	42.5°	6472.0	3273.6	783.1	595.8	420.7	313.2	276.4	285.6	274.9	273.3
9446.3	45°	7077.0	3634.5	861.4	563.5	419.2	305.6	264.1	274.9	258.0	258.0
10230.9	47.5°	7677.4	3992.2	941.2	517.5	414.6	304.0	253.4	247.2	242.6	244.1
11253.5	50°	8505.0	4284.0	972.0	454.5	403.8	301.0	233.4	234.9	231.9	234.9
12695.3	52.5°	9406.4	4345.4	935.1	383.9	373.1	291.7	219.6	225.7	224.2	227.3
13710.3	55°	9968.3	4279.4	772.3	319.4	325.5	254.9	205.8	218.0	218.0	218.0
14702.2	57.5°	10548.7	3998.4	548.2	259.5	270.2	208.8	193.5	210.4	208.8	207.3
15896.8	60°	10966.4	3543.9	360.8	213.4	215.0	172.0	179.7	198.1	196.5	188.9
17128.3	62.5°	11278.1	3041.8	231.9	181.2	164.3	155.1	164.3	179.7	173.5	156.6
18172.4	65°	11242.8	2346.2	178.1	155.1	135.1	135.1	142.8	156.6	138.2	110.6
18372.0	67.5°	10587.1	1587.7	147.4	130.5	113.6	112.1	118.2	130.5	118.2	93.7
17349.4	70°	9415.6	1038.0	118.2	101.3	90.6	82.9	95.2	112.1	99.8	75.2
14769.8	72.5°	7642.1	632.6	89.1	73.7	66.0	53.7	75.2	92.1	79.8	55.3
10270.8	75°	4944.2	322.5	61.4	47.6	35.3	32.2	55.3	69.1	55.3	33.8
4557.3	77.5°	1891.7	135.1	33.8	21.5	18.4	15.4	30.7	41.5	23.0	7.7
882.9	80°	363.9	56.8	16.9	10.7	9.2	6.1	4.6	3.1	0.0	0.0
156.6	82.5°	63.0	18.4	6.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
30.7	85°	21.5	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.7	87.5°	7.7	0.0	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>
2851.4
1730.5
1013.4
824.6
761.6
703.2
648.0
597.3
548.2
500.6
453.0
414.6
382.3
357.8
334.7
316.3
291.7
271.8
258.0
244.1
234.9
227.3
218.0
207.3
188.9
153.5
107.5
90.6
72.2
52.2
29.2
6.1
0.0
0.0
0.0
0.0
0.0

F REPORT)