

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: P941924

Luminaire Tested: **GALN-SB5C-940-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-940-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20018 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

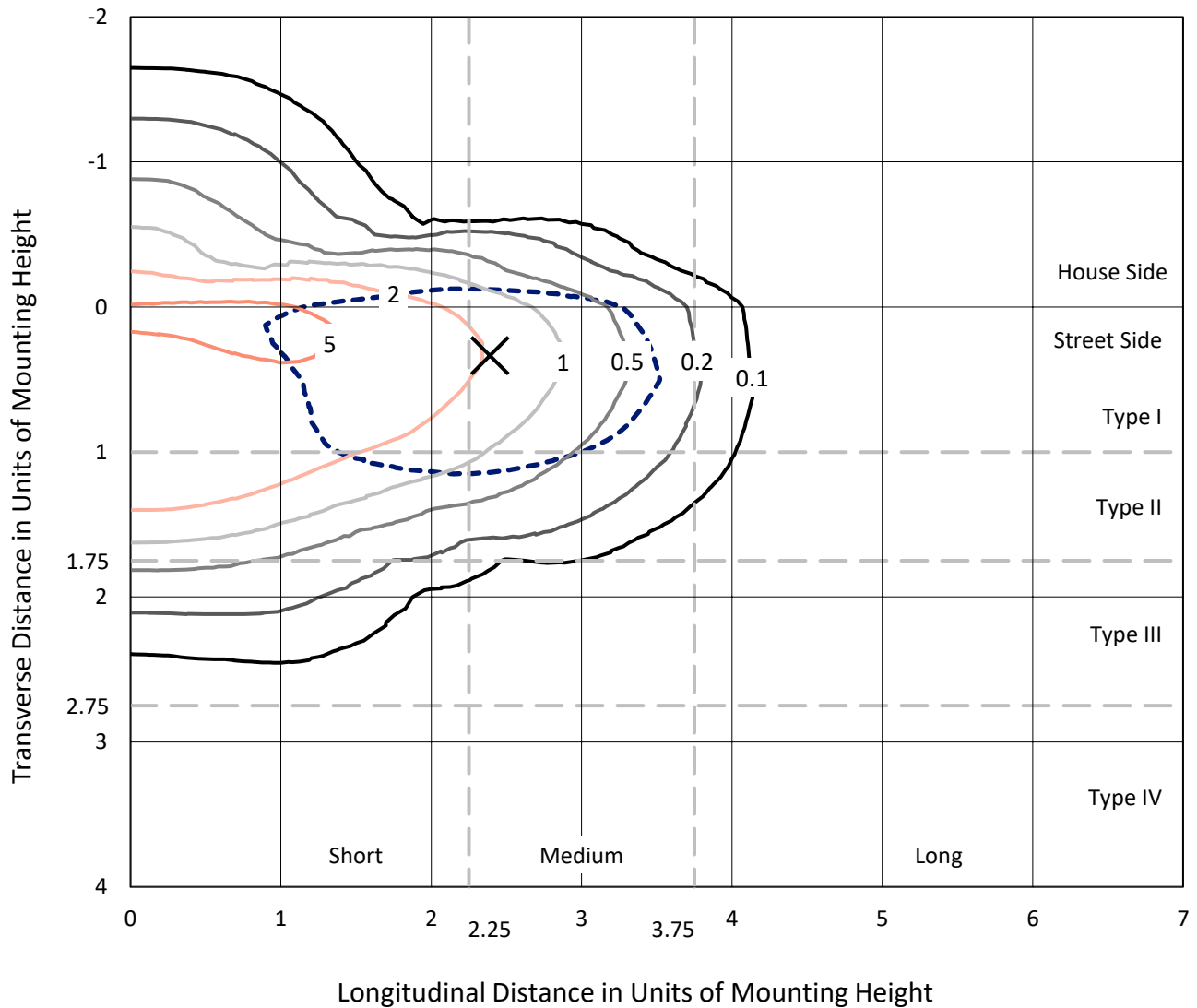
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941924
 CATALOG NUMBER: GALN-SB5C-940-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

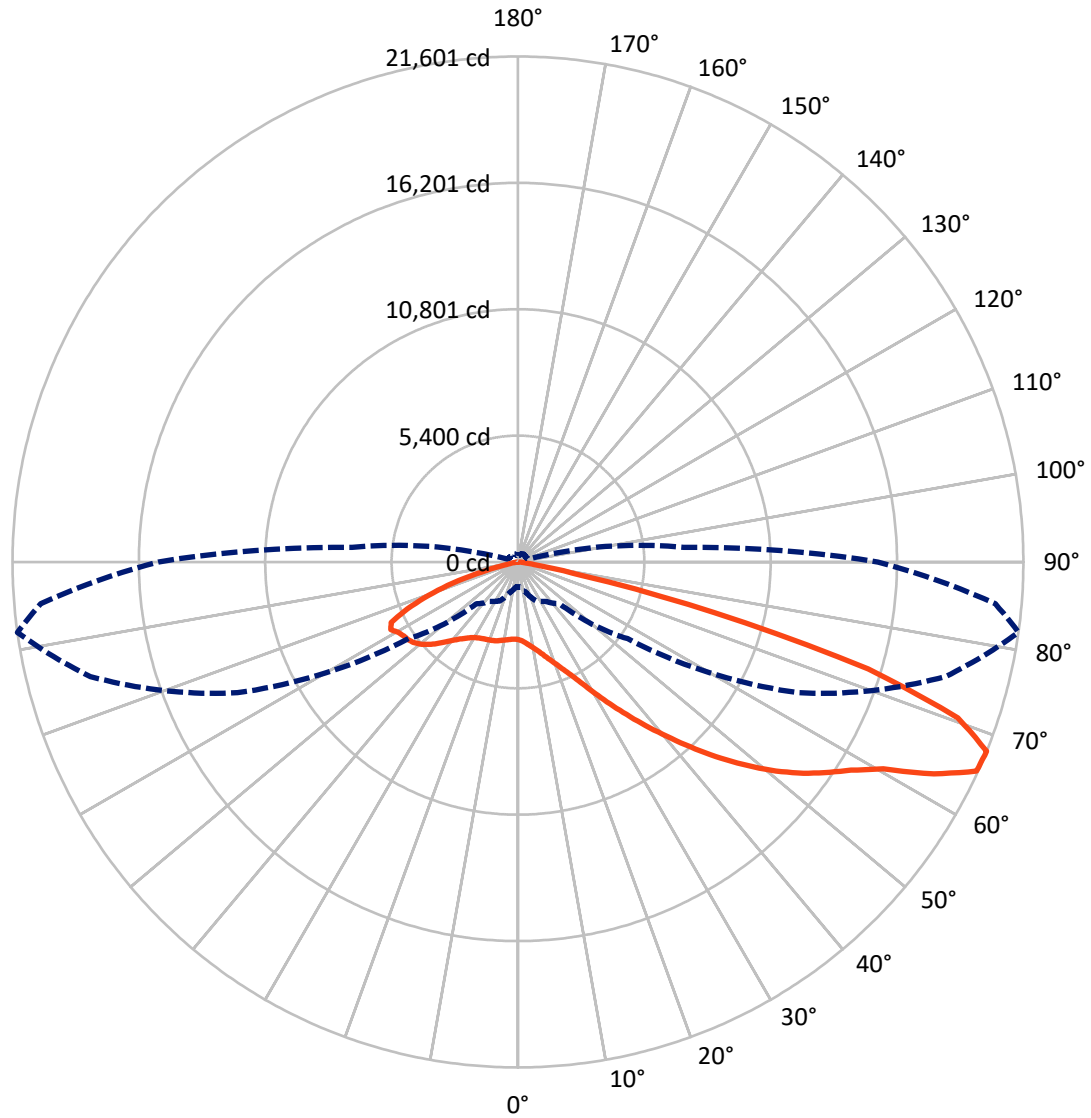
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Medium - N/A

REPORT NUMBER: P941924
CATALOG NUMBER: GALN-SB5C-940-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P941924

CATALOG NUMBER: GALN-SB5C-940-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3626.1	0.0	3626.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	16391.9	0.0	16391.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	20018.0	0.0	20018.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.5	1.5
10°-20°	767.8	3.8
20°-30°	1229.7	6.1
30°-40°	2174.5	10.9
40°-50°	3810.0	19.0
50°-60°	5081.5	25.4
60°-70°	4730.6	23.6
70°-80°	1815.6	9.1
80°-90°	112.8	0.6
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°	20018.0	100.0
0°-180°	20018.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941924

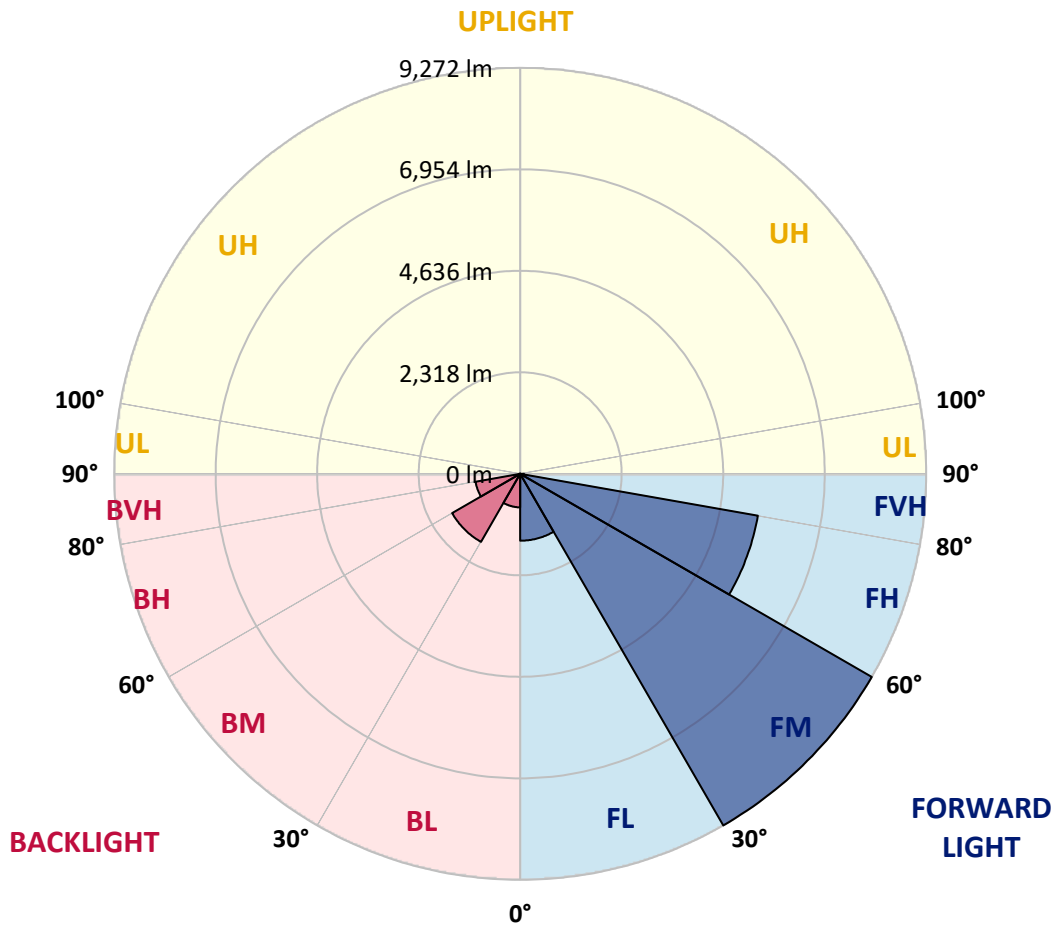
CATALOG NUMBER: GALN-SB5C-940-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1527.2	7.6			
FM (30°-60°)	9271.5	46.3			
FH (60°-80°)	5511.3	27.5			G3/7500
FVH (80°-90°)	82.0	0.4			G1/100
BL (0°-30°)	765.8	3.8	B2/1000		
BM (30°-60°)	1794.5	9.0	B2/2500		
BH (60°-80°)	1035.0	5.2	B3/2500		G3/2500
BVH (80°-90°)	30.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



REPORT NUMBER: P941924

CATALOG NUMBER: GALN-SB5C-940-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3316.3	3316.3	3316.3	3316.3	3316.3	3316.3	3316.3	3316.3	3316.3	3316.3
2.5°	3505.1	3525.3	3513.8	3508.0	3497.9	3483.5	3472.0	3435.9	3398.5	3374.0
5°	3575.7	3595.9	3594.5	3600.2	3607.4	3611.8	3608.9	3568.5	3515.2	3473.4
7.5°	3515.2	3538.3	3557.0	3585.8	3636.3	3689.6	3715.5	3706.9	3652.1	3594.5
10°	3343.7	3368.2	3412.9	3480.6	3587.3	3702.6	3799.1	3843.8	3809.2	3745.8
12.5°	3029.5	3054.0	3141.9	3288.9	3467.6	3668.0	3852.4	3972.1	3980.7	3917.3
15°	2676.4	2700.9	2794.6	2979.1	3251.4	3572.8	3881.3	4107.5	4183.9	4129.2
17.5°	2457.3	2478.9	2549.6	2698.0	2981.9	3382.6	3871.2	4251.7	4426.1	4382.8
20°	2391.0	2409.8	2442.9	2546.7	2783.0	3185.2	3804.9	4387.2	4686.9	4662.4
22.5°	2461.6	2478.9	2489.0	2535.2	2683.6	3055.4	3721.3	4525.5	4989.6	4992.5
25°	2624.5	2641.8	2630.3	2659.1	2724.0	3015.1	3689.6	4688.4	5370.1	5401.8
27.5°	2892.6	2894.0	2866.6	2865.2	2875.3	3075.6	3722.7	4862.8	5850.0	5909.1
30°	3430.2	3408.5	3303.3	3189.5	3137.6	3257.2	3815.0	5068.9	6416.4	6521.6
32.5°	4258.9	4227.2	4034.0	3761.6	3487.8	3549.8	3980.7	5303.8	7033.3	7223.5
35°	5158.2	5149.6	4947.8	4542.8	4064.3	3966.3	4250.2	5612.2	7706.3	8009.0
37.5°	5994.1	5989.8	5874.5	5397.5	4815.2	4547.1	4682.6	6015.8	8427.0	8865.1
40°	6758.0	6771.0	6655.7	6229.1	5642.5	5292.3	5270.6	6514.4	9228.3	9797.6
42.5°	7418.1	7432.5	7315.8	7000.1	6459.7	6116.6	5992.7	7125.5	10010.9	10799.3
45°	7866.3	7955.7	7938.4	7686.2	7298.5	6942.5	6860.3	7892.3	10903.0	11861.4
47.5°	7993.1	8075.3	8205.0	8239.6	8003.2	7653.0	7751.0	8816.1	11805.2	12925.1
50°	7680.4	7756.8	8026.3	8385.2	8549.5	8441.4	8617.2	9806.2	12729.1	13985.8
52.5°	7063.5	7141.4	7481.5	8049.4	8719.5	9059.7	9486.3	10782.0	13624.1	14990.4
55°	6171.4	6253.6	6690.3	7333.1	8395.3	9314.8	10211.2	11756.2	14444.2	15894.1
57.5°	4957.9	5018.4	5472.4	6371.7	7579.5	9061.1	10745.9	12819.9	15216.7	16781.9
60°	3231.3	3284.6	3812.1	4815.2	6227.6	8213.7	10852.6	14006.0	16242.8	17936.3
62.5°	2148.9	2184.9	2497.7	3234.2	4385.7	6586.5	10228.5	14952.9	17747.5	19945.4
65°	1474.4	1510.4	1823.2	2336.3	2833.5	4356.9	8434.2	14827.5	19110.9	21540.9
67.5°	1052.1	1082.4	1347.6	1831.8	2050.9	2530.8	5717.4	13224.9	18914.9	21601.4
70°	753.8	771.1	990.1	1426.8	1630.0	1520.5	3179.4	10114.7	16561.3	19946.8
72.5°	527.5	533.3	687.5	1086.7	1313.0	1109.8	1513.3	6743.6	12525.9	15656.2
75°	357.4	364.6	462.6	797.0	1053.6	847.5	801.3	3616.1	7353.2	8666.2
77.5°	219.1	222.0	298.3	544.8	788.4	645.7	516.0	1532.0	2845.0	2793.1
80°	123.9	123.9	190.2	338.7	537.6	416.5	361.8	651.4	900.8	791.2
82.5°	69.2	70.6	138.4	210.4	356.0	246.5	198.9	301.2	389.1	344.5
85°	28.8	31.7	85.0	99.4	170.1	122.5	80.7	126.8	144.1	128.3
87.5°	2.9	4.3	25.9	18.7	20.2	24.5	11.5	24.5	20.2	20.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941924
 CATALOG NUMBER: GALN-SB5C-940-U-T2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3316.3	0°	3316.3	3316.3	3316.3	3316.3	3316.3	3316.3	3316.3	3316.3	3316.3	3316.3
3365.3	2.5°	3337.9	3316.3	3261.5	3198.1	3114.5	3074.2	3019.4	2981.9	2950.2	2953.1
3448.9	5°	3402.8	3348.0	3225.5	3072.7	2882.5	2747.0	2602.9	2503.4	2422.7	2405.4
3564.2	7.5°	3492.1	3405.7	3190.9	2915.6	2594.2	2350.7	2133.0	1993.2	1893.8	1862.1
3704.0	10°	3607.4	3482.0	3146.2	2718.2	2255.5	1945.7	1712.2	1602.7	1534.9	1511.9
3868.3	12.5°	3741.5	3570.0	3087.1	2477.5	1906.8	1608.4	1460.0	1405.2	1383.6	1376.4
4070.1	15°	3910.1	3679.5	2997.8	2192.1	1611.3	1402.3	1338.9	1331.7	1334.6	1331.7
4312.2	17.5°	4110.4	3799.1	2852.2	1898.1	1412.4	1297.1	1274.1	1279.8	1287.0	1285.6
4583.2	20°	4329.5	3917.3	2666.3	1637.3	1276.9	1222.2	1209.2	1215.0	1220.7	1217.9
4895.9	22.5°	4578.8	4044.1	2460.2	1434.0	1186.1	1153.0	1138.6	1140.0	1140.0	1134.3
5292.3	25°	4877.2	4183.9	2244.0	1289.9	1117.0	1091.0	1073.7	1068.0	1059.3	1042.0
5773.6	27.5°	5233.2	4332.4	2036.5	1189.0	1062.2	1037.7	1017.5	1003.1	981.5	952.7
6351.6	30°	5633.8	4512.5	1860.6	1125.6	1019.0	994.5	971.4	949.8	918.1	882.0
7016.0	32.5°	6105.1	4705.7	1732.4	1083.8	980.0	954.1	926.7	900.8	866.2	830.2
7762.5	35°	6667.2	4939.1	1657.4	1055.0	949.8	915.2	884.9	856.1	830.2	798.4
8574.0	37.5°	7276.8	5187.0	1634.4	1040.6	929.6	876.3	841.7	821.5	818.6	799.9
9451.7	40°	7944.1	5481.1	1651.7	1031.9	908.0	838.8	801.3	797.0	804.2	771.1
10389.9	42.5°	8650.4	5829.8	1680.5	1021.8	877.7	801.3	765.3	765.3	759.5	713.4
11381.5	45°	9414.2	6231.9	1709.3	997.3	841.7	763.9	736.5	726.4	701.9	657.2
12378.9	47.5°	10183.8	6641.3	1730.9	952.7	798.4	732.2	707.7	684.6	648.6	608.2
13357.5	50°	10914.5	7008.8	1707.9	886.4	749.4	701.9	675.9	644.2	605.3	577.9
14284.2	52.5°	11567.4	7327.3	1609.9	808.5	697.6	670.2	647.1	614.0	582.3	553.4
15120.1	55°	12135.3	7585.3	1436.9	735.0	651.4	642.8	619.7	577.9	534.7	510.2
15948.8	57.5°	12680.1	7781.3	1220.7	674.5	609.6	612.5	577.9	540.5	500.1	474.2
17065.8	60°	13405.0	8043.6	1001.7	618.3	565.0	573.6	536.1	508.8	458.3	425.2
18981.2	62.5°	14563.8	8451.5	795.6	549.1	513.1	516.0	500.1	467.0	406.4	367.5
20400.8	65°	15483.3	8301.6	626.9	474.2	454.0	458.3	458.3	422.3	357.4	312.8
20477.2	67.5°	15379.5	7108.2	500.1	400.7	397.8	400.7	410.8	380.5	317.1	281.0
18917.8	70°	14167.4	5654.0	400.7	332.9	345.9	338.7	367.5	347.3	285.4	249.3
14666.1	72.5°	11560.2	4073.0	305.5	275.3	265.2	276.7	331.5	312.8	237.8	197.5
7768.3	75°	6755.1	2173.4	227.7	217.6	191.7	230.6	294.0	266.6	181.6	145.6
2380.9	77.5°	2199.3	758.1	167.2	160.0	142.7	185.9	250.8	224.8	148.4	115.3
697.6	80°	589.5	229.2	113.9	105.2	92.2	138.4	198.9	178.7	106.7	74.9
299.8	82.5°	236.4	96.6	66.3	59.1	50.4	95.1	157.1	144.1	79.3	47.6
93.7	85°	76.4	31.7	24.5	18.7	23.1	59.1	93.7	98.0	56.2	24.5
14.4	87.5°	10.1	4.3	4.3	5.8	4.3	10.1	28.8	27.4	15.9	2.9
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>
3316.3
2924.3
2366.5
1830.4
1494.6
1372.1
1330.3
1282.7
1216.4
1131.4
1039.1
949.8
879.2
831.6
795.6
798.4
772.5
713.4
655.8
606.8
573.6
550.6
507.3
471.3
420.8
364.6
308.4
275.3
245.0
193.1
141.2
111.0
73.5
47.6
18.7
0.0
0.0

F REPORT)