

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: P941647

Luminaire Tested: **GALN-SB5B-740-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5B-740-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30114 lumens
Efficiency: N/A
Efficacy: 164.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

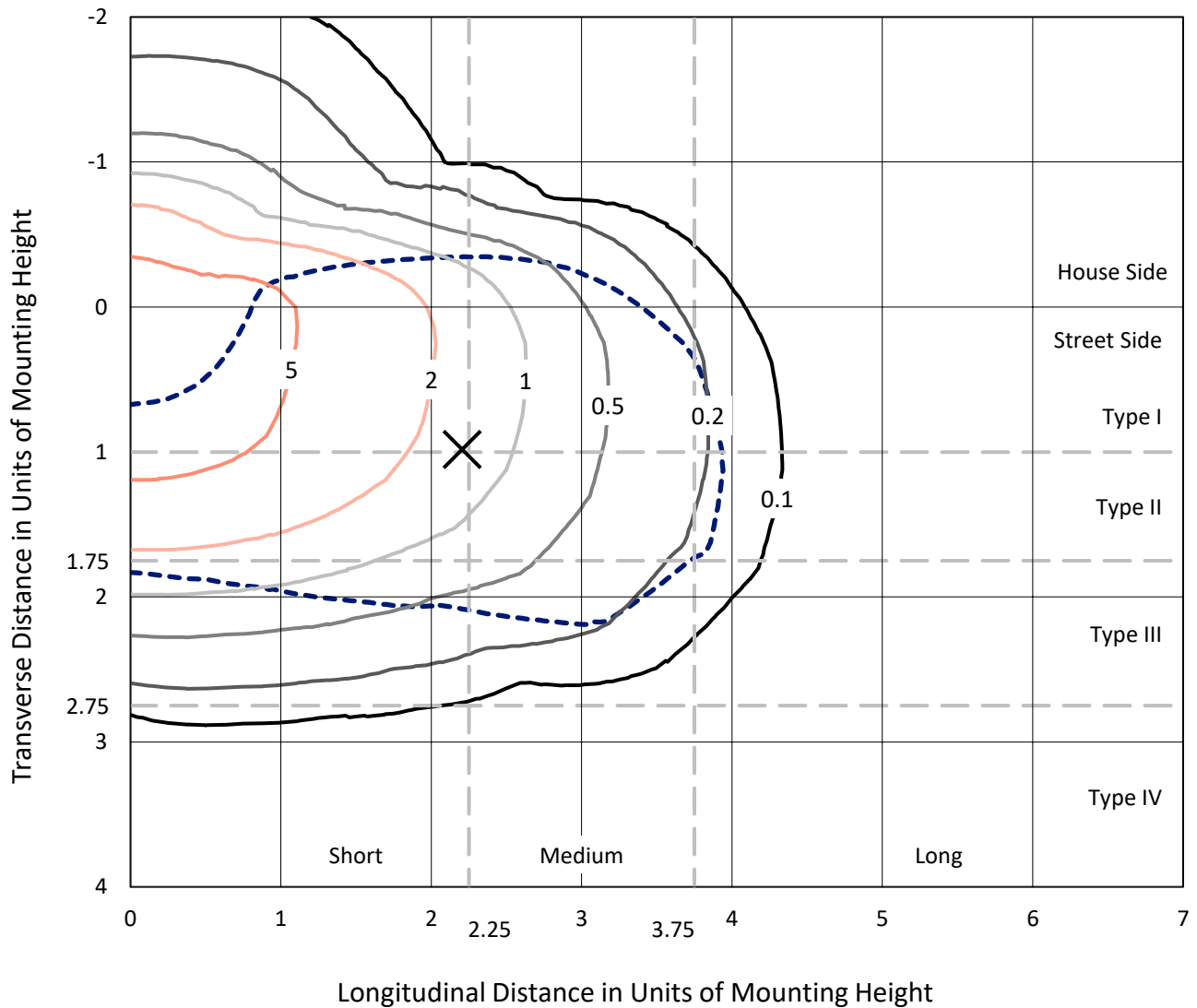
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941647
 CATALOG NUMBER: GALN-SB5B-740-U-T3

Iso-Footcandle Lines of Horizontal Illumination

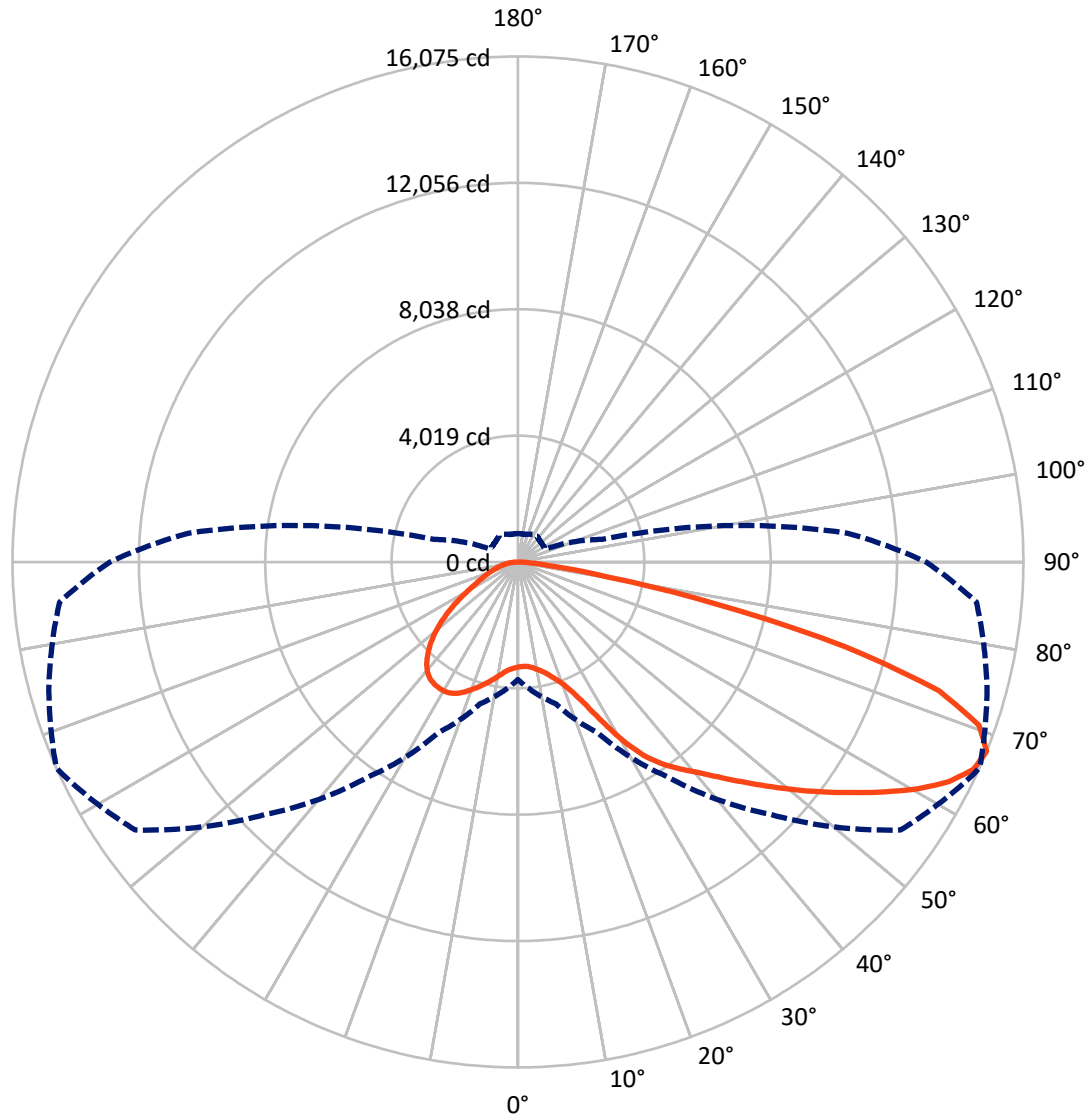
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Short - N/A

REPORT NUMBER: P941647
CATALOG NUMBER: GALN-SB5B-740-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P941647

CATALOG NUMBER: GALN-SB5B-740-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7487.8	0.0	7487.8
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	22626.2	0.0	22626.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	30114.0	0.0	30114.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.1	1.1
10°-20°	1094.1	3.6
20°-30°	2108.8	7.0
30°-40°	3697.5	12.3
40°-50°	5496.9	18.3
50°-60°	6967.9	23.1
60°-70°	6817.9	22.6
70°-80°	3252.2	10.8
80°-90°	347.6	1.2
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°	30114.0	100.0
0°-180°	30114.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941647

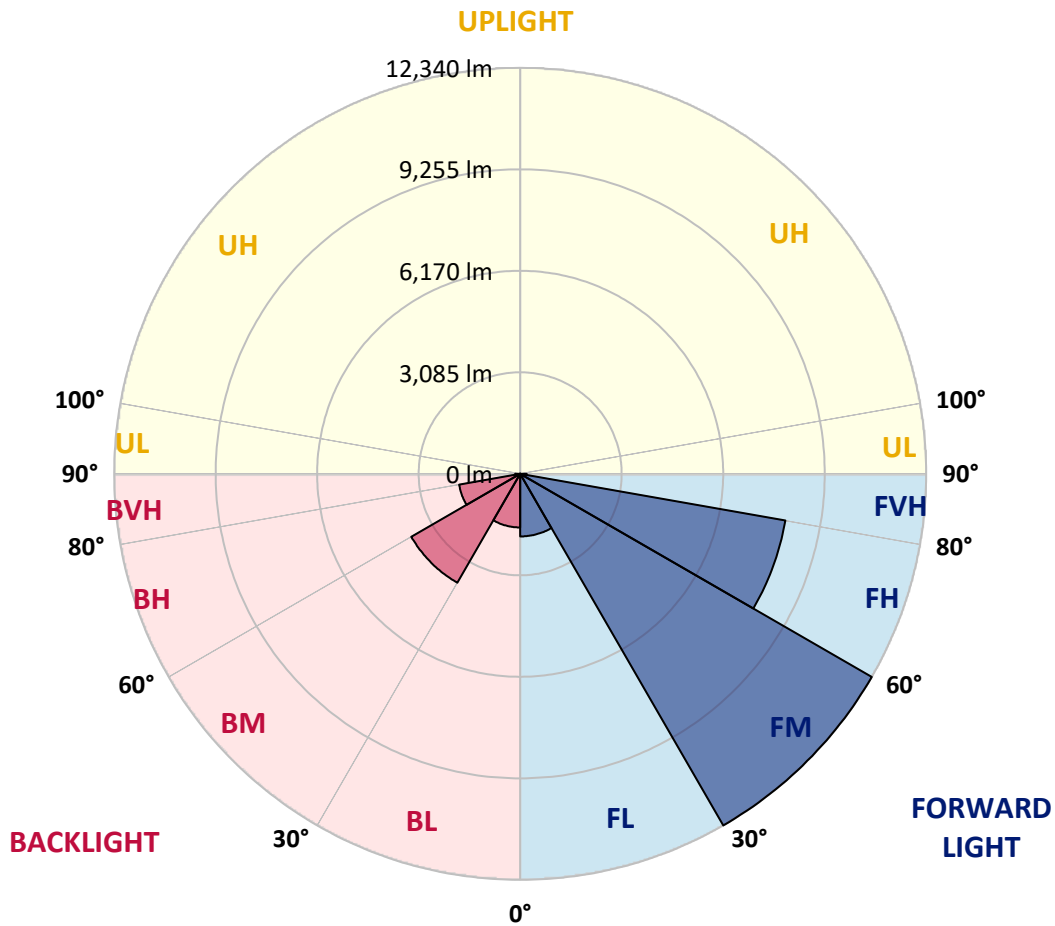
CATALOG NUMBER: GALN-SB5B-740-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1902.9	6.3			
FM (30°-60°)	12340.5	41.0			
FH (60°-80°)	8185.8	27.2			G4/12000
FVH (80°-90°)	197.1	0.7			G2/225
BL (0°-30°)	1631.1	5.4	B3/2500		
BM (30°-60°)	3821.8	12.7	B3/5000		
BH (60°-80°)	1884.3	6.3	B3/2500		G3/2500
BVH (80°-90°)	150.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



REPORT NUMBER: P941647

CATALOG NUMBER: GALN-SB5B-740-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3340.0	3340.0	3340.0	3340.0	3340.0	3340.0	3340.0	3340.0	3340.0	3340.0
2.5°	3305.2	3324.2	3319.5	3311.6	3310.0	3313.1	3317.9	3322.6	3321.1	3329.0
5°	3295.7	3314.7	3313.1	3313.1	3319.5	3332.1	3340.0	3348.0	3340.0	3349.5
7.5°	3302.1	3316.3	3322.6	3329.0	3344.8	3368.5	3387.5	3404.9	3395.4	3406.5
10°	3382.8	3393.8	3400.2	3400.2	3411.2	3438.1	3457.1	3488.8	3480.9	3498.3
12.5°	3529.9	3541.0	3541.0	3534.7	3542.6	3560.0	3566.3	3601.1	3586.9	3615.3
15°	3710.3	3732.4	3715.0	3703.9	3707.1	3724.5	3722.9	3749.8	3735.6	3759.3
17.5°	3909.6	3938.1	3909.6	3908.1	3901.7	3920.7	3922.3	3946.0	3920.7	3938.1
20°	4145.4	4184.9	4161.2	4169.1	4154.9	4162.8	4170.7	4205.5	4166.0	4178.6
22.5°	4477.6	4525.1	4499.8	4529.9	4520.4	4514.0	4512.5	4574.2	4512.5	4517.2
25°	4961.8	5018.8	4974.5	5015.6	5015.6	5036.2	5059.9	5139.0	5036.2	5006.1
27.5°	5677.0	5733.9	5646.9	5672.2	5664.3	5714.9	5689.6	5885.8	5775.1	5726.0
30°	6537.7	6638.9	6474.4	6468.1	6460.2	6540.8	6577.2	6707.0	6594.6	6545.6
32.5°	7468.0	7574.0	7377.8	7320.9	7290.8	7339.9	7309.8	7414.2	7336.7	7260.8
35°	8452.2	8556.6	8369.9	8259.1	8138.9	8036.0	7928.4	7955.3	7882.6	7767.1
37.5°	9382.5	9573.9	9376.2	9257.5	9036.0	8835.0	8534.4	8409.4	8341.4	8235.4
40°	10330.2	10439.4	10289.1	10187.8	9947.3	9632.5	9151.5	8887.3	8795.5	8692.6
42.5°	11028.0	11132.4	11051.7	10982.1	10793.8	10428.3	9806.5	9475.8	9342.9	9227.4
45°	11581.8	11659.3	11608.7	11634.0	11553.3	11198.9	10485.3	10107.1	9969.5	9828.7
47.5°	11804.9	11887.1	11967.8	12118.1	12255.8	11994.7	11214.7	10790.7	10645.1	10501.1
50°	11779.5	11863.4	12097.6	12417.2	12844.4	12757.3	11983.6	11518.5	11384.0	11219.4
52.5°	11577.0	11671.9	11972.6	12504.2	13184.5	13328.5	12766.8	12270.0	12143.4	11947.3
55°	11045.4	11102.4	11553.3	12306.4	13265.2	13727.2	13534.2	13070.6	12944.0	12670.3
57.5°	10059.7	10142.0	10798.6	11773.2	13062.7	13997.8	14208.2	13912.4	13790.5	13396.6
60°	8773.3	8904.7	9656.2	10877.7	12546.9	13996.2	14820.5	14739.8	14638.6	14111.7
62.5°	7317.7	7469.6	8192.7	9611.9	11645.0	13599.1	15203.4	15432.9	15380.6	14771.5
65°	5620.0	5724.4	6444.3	7974.3	10241.6	12746.3	15247.7	15905.9	15915.4	15273.1
67.5°	3741.9	4042.5	4667.5	5983.9	8362.0	11352.3	14858.5	15983.5	16075.2	15445.5
70°	1825.9	2221.4	2833.7	3889.1	5983.9	9214.8	13841.2	15347.4	15551.5	14942.4
72.5°	757.9	886.0	1219.9	1919.2	3435.0	6218.1	11796.9	13622.8	14001.0	13239.9
75°	511.1	553.8	697.8	984.1	1564.8	3066.3	8507.5	10157.8	10766.9	9999.6
77.5°	394.0	420.9	507.9	688.3	930.3	1159.8	4553.6	6121.6	6436.4	5958.6
80°	310.1	330.7	379.7	501.6	659.8	620.2	1552.1	2773.6	2955.6	2479.3
82.5°	269.0	276.9	272.1	340.2	438.3	362.3	509.5	1023.7	1129.7	819.6
85°	194.6	216.8	226.3	210.4	232.6	183.5	208.9	362.3	398.7	356.0
87.5°	79.1	117.1	144.0	136.1	85.4	52.2	64.9	106.0	121.8	132.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941647
 CATALOG NUMBER: GALN-SB5B-740-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3340.0	0°	3340.0	3340.0	3340.0	3340.0	3340.0	3340.0	3340.0	3340.0	3340.0	3340.0
3341.6	2.5°	3343.2	3354.3	3362.2	3371.7	3378.0	3387.5	3406.5	3417.6	3419.2	3427.1
3366.9	5°	3373.3	3389.1	3406.5	3431.8	3460.3	3484.0	3520.4	3545.7	3555.2	3563.1
3428.6	7.5°	3438.1	3460.3	3491.9	3536.2	3577.4	3609.0	3653.3	3683.4	3713.4	3724.5
3526.7	10°	3534.7	3566.3	3612.2	3672.3	3716.6	3757.7	3803.6	3828.9	3859.0	3871.7
3643.8	12.5°	3654.9	3688.1	3748.3	3832.1	3873.2	3901.7	3917.5	3911.2	3917.5	3928.6
3784.6	15°	3792.6	3828.9	3897.0	3987.2	4015.6	3990.3	3955.5	3923.9	3919.1	3922.3
3955.5	17.5°	3955.5	3982.4	4061.5	4137.5	4116.9	4012.5	3936.5	3885.9	3860.6	3852.7
4173.9	20°	4183.4	4183.4	4248.2	4295.7	4158.0	3980.8	3862.2	3779.9	3727.7	3705.5
4471.3	22.5°	4460.2	4434.9	4476.1	4442.8	4150.1	3892.2	3727.7	3585.3	3506.2	3474.5
4887.4	25°	4811.5	4781.4	4770.4	4564.7	4093.2	3751.4	3484.0	3311.6	3241.9	3224.5
5487.1	27.5°	5341.5	5265.6	5121.6	4631.1	3988.7	3529.9	3199.2	3039.4	2999.9	3001.4
6257.6	30°	6047.2	5895.3	5542.5	4642.2	3817.9	3216.6	2908.1	2794.2	2775.2	2783.1
6904.8	32.5°	6700.6	6556.7	5972.8	4591.6	3555.2	2909.7	2647.0	2571.1	2542.6	2552.1
7398.4	35°	7213.3	7173.7	6371.6	4520.4	3232.5	2621.7	2412.9	2348.0	2292.6	2280.0
7863.6	37.5°	7697.4	7681.6	6670.6	4420.7	2912.8	2417.6	2224.6	2139.1	2058.5	2014.2
8377.8	40°	8229.1	8213.2	6866.8	4267.2	2629.6	2240.4	2055.3	1943.0	1843.3	1762.6
8960.0	42.5°	8827.1	8733.8	6960.1	4047.3	2389.1	2090.1	1917.6	1765.7	1634.4	1560.1
9618.2	45°	9480.6	9270.2	6958.5	3767.2	2186.6	1952.4	1770.5	1555.3	1433.5	1363.9
10293.8	47.5°	10173.6	9782.8	6873.1	3457.1	1990.4	1800.6	1542.7	1378.1	1297.4	1254.7
11028.0	50°	10888.8	10262.2	6727.5	3101.1	1789.5	1628.1	1400.3	1287.9	1226.2	1186.7
11755.8	52.5°	11561.2	10697.3	6551.9	2697.7	1585.4	1460.4	1337.0	1249.9	1185.1	1140.8
12461.5	55°	12186.2	11072.3	6303.5	2284.7	1419.2	1348.0	1306.9	1234.1	1159.8	1107.5
13178.2	57.5°	12741.5	11315.9	5874.7	1897.1	1300.6	1270.5	1275.3	1207.2	1121.8	1077.5
13883.9	60°	13203.5	11494.7	5240.3	1537.9	1204.1	1194.6	1226.2	1156.6	1056.9	1006.3
14480.4	62.5°	13480.4	11491.6	4461.8	1259.4	1121.8	1124.9	1161.3	1093.3	992.0	944.6
14792.1	65°	13456.7	11209.9	3607.4	1077.5	1042.7	1045.8	1093.3	1023.7	938.2	909.8
14635.4	67.5°	12980.4	10523.3	2767.3	958.8	955.7	969.9	1025.3	976.2	905.0	901.9
13701.9	70°	11690.9	9097.7	1993.6	863.9	865.5	886.0	958.8	946.2	887.6	893.9
11520.1	72.5°	9374.6	6936.4	1338.5	764.2	765.8	799.0	895.5	922.4	870.2	954.1
8173.7	75°	6243.4	4325.8	860.7	658.2	659.8	702.5	840.2	876.5	822.7	950.9
4253.0	77.5°	2999.9	1944.5	623.4	553.8	553.8	593.3	726.2	784.8	700.9	738.9
1367.0	80°	1036.3	731.0	490.5	446.2	436.7	463.6	612.3	680.3	604.4	556.9
446.2	82.5°	408.2	379.7	394.0	346.5	314.9	332.3	476.2	561.7	444.6	401.9
251.6	85°	234.2	246.8	278.5	229.4	182.0	204.1	349.7	403.5	335.4	295.9
82.3	87.5°	63.3	87.0	128.2	118.7	82.3	87.0	166.1	223.1	193.0	148.7
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>
3340.0
3425.5
3561.5
3726.1
3878.0
3931.8
3933.4
3863.8
3700.8
3469.8
3227.7
3006.2
2810.0
2564.8
2289.5
2015.7
1770.5
1564.8
1360.7
1245.2
1172.4
1121.8
1087.0
1049.0
984.1
930.3
908.2
906.6
892.4
966.7
958.8
677.2
522.1
400.3
302.2
153.5
0.0

F REPORT)