

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: P941637

Luminaire Tested: **GALN-SB5B-735-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941637
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-735-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28464 lumens
Efficiency: N/A
Efficacy: 155.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

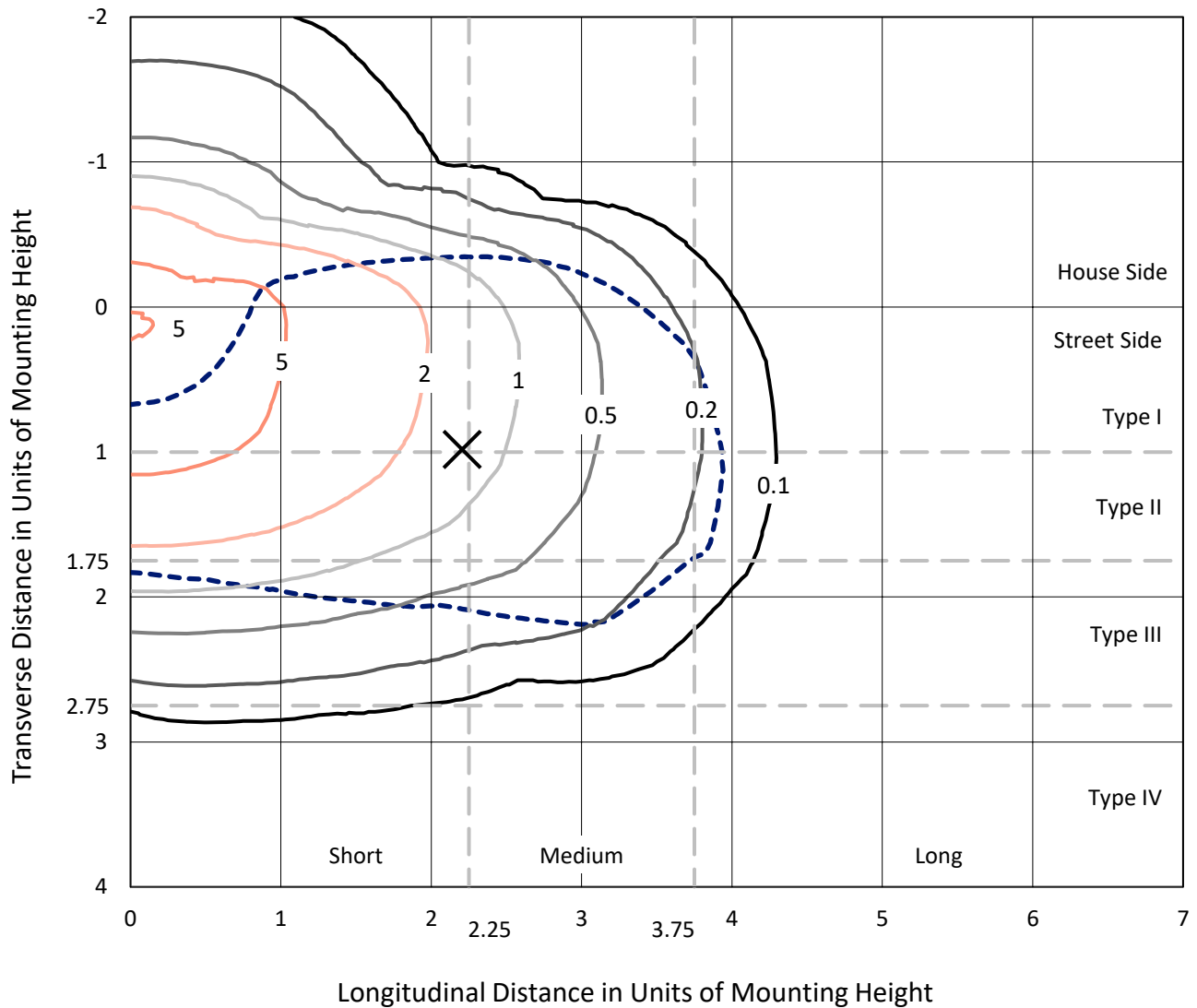
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941637
 CATALOG NUMBER: GALN-SB5B-735-U-T3

Iso-Footcandle Lines of Horizontal Illumination

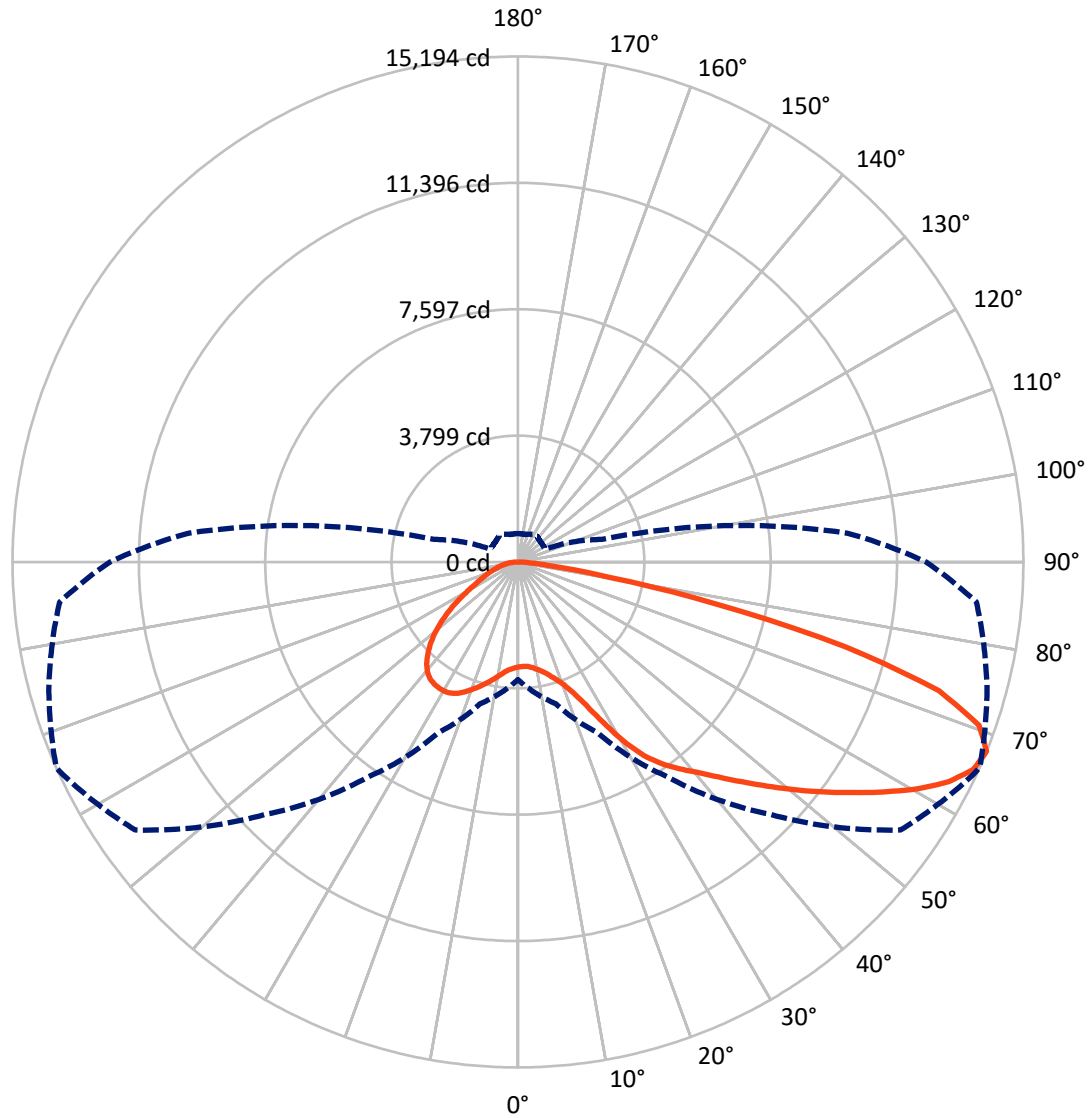
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type III - Short - N/A

REPORT NUMBER: P941637
CATALOG NUMBER: GALN-SB5B-735-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P941637
 CATALOG NUMBER: GALN-SB5B-735-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7077.5	0.0	7077.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	21386.5	0.0	21386.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	28464.0	0.0	28464.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.0	1.1
10°-20°	1034.1	3.6
20°-30°	1993.2	7.0
30°-40°	3494.9	12.3
40°-50°	5195.7	18.3
50°-60°	6586.1	23.1
60°-70°	6444.3	22.6
70°-80°	3074.0	10.8
80°-90°	328.5	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°	28464.0	100.0
0°-180°	28464.0	100.0



REPORT NUMBER: P941637

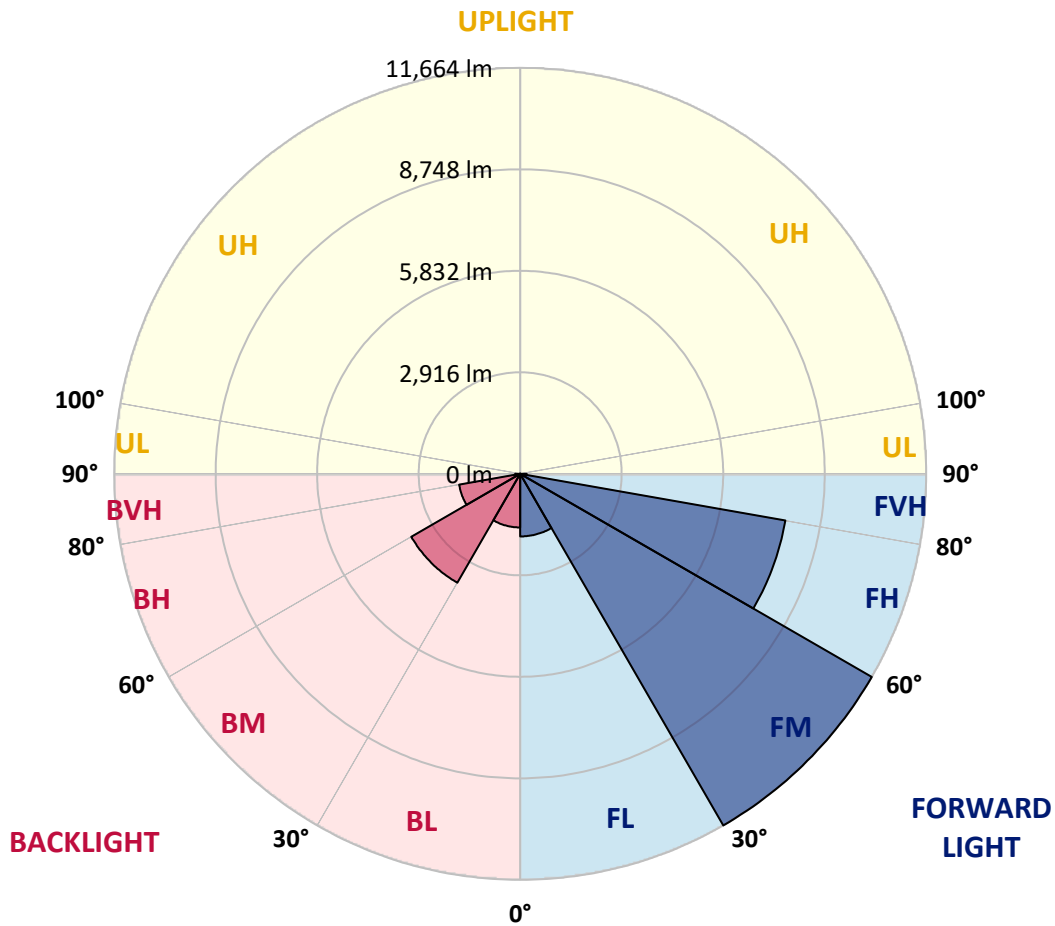
CATALOG NUMBER: GALN-SB5B-735-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1798.6	6.3			
FM (30°-60°)	11664.3	41.0			
FH (60°-80°)	7737.3	27.2			G4/12000
FVH (80°-90°)	186.3	0.7			G2/225
BL (0°-30°)	1541.7	5.4	B3/2500		
BM (30°-60°)	3612.4	12.7	B3/5000		
BH (60°-80°)	1781.1	6.3	B3/2500		G3/2500
BVH (80°-90°)	142.3	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: P941637

CATALOG NUMBER: GALN-SB5B-735-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0
2.5°	3124.1	3142.1	3137.6	3130.1	3128.6	3131.6	3136.1	3140.6	3139.1	3146.6
5°	3115.2	3133.1	3131.6	3131.6	3137.6	3149.6	3157.0	3164.5	3157.0	3166.0
7.5°	3121.1	3134.6	3140.6	3146.6	3161.5	3184.0	3201.9	3218.3	3209.4	3219.8
10°	3197.4	3207.9	3213.9	3213.9	3224.3	3249.8	3267.7	3297.6	3290.1	3306.6
12.5°	3336.5	3347.0	3347.0	3341.0	3348.5	3364.9	3370.9	3403.8	3390.3	3417.3
15°	3507.0	3527.9	3511.5	3501.0	3504.0	3520.4	3518.9	3544.4	3530.9	3553.3
17.5°	3695.4	3722.3	3695.4	3693.9	3687.9	3705.9	3707.4	3729.8	3705.9	3722.3
20°	3918.3	3955.6	3933.2	3940.7	3927.2	3934.7	3942.2	3975.1	3937.7	3949.7
22.5°	4232.3	4277.2	4253.2	4281.7	4272.7	4266.7	4265.2	4323.5	4265.2	4269.7
25°	4689.9	4743.8	4701.9	4740.8	4740.8	4760.2	4782.7	4857.4	4760.2	4731.8
27.5°	5365.9	5419.7	5337.5	5361.4	5353.9	5401.8	5377.9	5563.3	5458.6	5412.3
30°	6179.5	6275.2	6119.7	6113.7	6106.2	6182.5	6216.9	6339.5	6233.3	6186.9
32.5°	7058.8	7159.0	6973.6	6919.8	6891.3	6937.7	6909.3	7008.0	6934.7	6862.9
35°	7989.0	8087.7	7911.3	7806.6	7692.9	7595.7	7494.0	7519.5	7450.7	7341.5
37.5°	8868.4	9049.4	8862.4	8750.3	8540.9	8351.0	8066.8	7948.7	7884.4	7784.2
40°	9764.2	9867.4	9725.3	9629.6	9402.3	9104.7	8650.1	8400.3	8313.6	8216.4
42.5°	10423.7	10522.4	10446.2	10380.4	10202.4	9856.9	9269.2	8956.6	8831.0	8721.8
45°	10947.2	11020.5	10972.6	10996.5	10920.3	10585.3	9910.8	9553.4	9423.2	9290.1
47.5°	11158.0	11235.8	11312.1	11454.2	11584.3	11337.5	10600.2	10199.4	10061.8	9925.7
50°	11134.1	11213.4	11434.7	11736.8	12140.6	12058.3	11327.0	10887.4	10760.2	10604.7
52.5°	10942.7	11032.4	11316.6	11819.1	12462.1	12598.2	12067.3	11597.7	11478.1	11292.6
55°	10440.2	10494.0	10920.3	11632.1	12538.4	12975.1	12792.6	12354.5	12234.8	11976.1
57.5°	9508.5	9586.3	10206.9	11128.1	12347.0	13230.8	13429.7	13150.1	13034.9	12662.5
60°	8292.6	8416.8	9127.1	10281.7	11859.4	13229.3	14008.5	13932.2	13836.5	13338.5
62.5°	6916.8	7060.3	7743.8	9085.3	11007.0	12854.0	14370.4	14587.3	14537.9	13962.1
65°	5312.1	5410.8	6091.2	7537.4	9680.5	12047.9	14412.3	15034.4	15043.4	14436.2
67.5°	3536.9	3821.0	4411.8	5656.0	7903.8	10730.3	14044.4	15107.7	15194.4	14599.2
70°	1725.8	2099.7	2678.5	3676.0	5656.0	8709.9	13082.8	14506.5	14699.4	14123.7
72.5°	716.4	837.5	1153.0	1814.1	3246.8	5877.4	11150.6	12876.4	13233.8	12514.5
75°	483.1	523.4	659.5	930.2	1479.1	2898.3	8041.4	9601.2	10177.0	9451.7
77.5°	372.4	397.8	480.1	650.5	879.4	1096.2	4304.1	5786.2	6083.8	5632.1
80°	293.1	312.6	358.9	474.1	623.6	586.2	1467.1	2621.6	2793.6	2343.5
82.5°	254.2	261.7	257.2	321.5	414.3	342.5	481.6	967.6	1067.8	774.7
85°	183.9	204.9	213.9	198.9	219.8	173.5	197.4	342.5	376.9	336.5
87.5°	74.8	110.7	136.1	128.6	80.8	49.4	61.3	100.2	115.2	125.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941637
 CATALOG NUMBER: GALN-SB5B-735-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3157.0	0°	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0	3157.0
3158.5	2.5°	3160.0	3170.5	3178.0	3186.9	3192.9	3201.9	3219.8	3230.3	3231.8	3239.3
3182.5	5°	3188.4	3203.4	3219.8	3243.8	3270.7	3293.1	3327.5	3351.5	3360.4	3367.9
3240.8	7.5°	3249.8	3270.7	3300.6	3342.5	3381.4	3411.3	3453.1	3481.6	3510.0	3520.4
3333.5	10°	3341.0	3370.9	3414.3	3471.1	3513.0	3551.8	3595.2	3619.1	3647.6	3659.5
3444.2	12.5°	3454.6	3486.0	3542.9	3622.1	3661.0	3687.9	3702.9	3696.9	3702.9	3713.4
3577.3	15°	3584.8	3619.1	3683.5	3768.7	3795.6	3771.7	3738.8	3708.9	3704.4	3707.4
3738.8	17.5°	3738.8	3764.2	3839.0	3910.8	3891.3	3792.6	3720.8	3673.0	3649.1	3641.6
3945.2	20°	3954.1	3954.1	4015.5	4060.3	3930.2	3762.7	3650.6	3572.8	3523.4	3502.5
4226.3	22.5°	4215.9	4191.9	4230.8	4199.4	3922.7	3679.0	3523.4	3388.8	3314.1	3284.2
4619.6	25°	4547.9	4519.4	4509.0	4314.6	3868.9	3545.9	3293.1	3130.1	3064.3	3047.9
5186.4	27.5°	5048.9	4977.1	4841.0	4377.4	3770.2	3336.5	3023.9	2872.9	2835.5	2837.0
5914.8	30°	5715.9	5572.3	5238.8	4387.8	3608.7	3040.4	2748.8	2641.1	2623.1	2630.6
6526.4	32.5°	6333.5	6197.4	5645.6	4340.0	3360.4	2750.3	2502.0	2430.2	2403.3	2412.3
6993.0	35°	6818.1	6780.7	6022.4	4272.7	3055.3	2478.1	2280.7	2219.3	2167.0	2155.0
7432.7	37.5°	7275.7	7260.7	6305.1	4178.5	2753.2	2285.1	2102.7	2021.9	1945.7	1903.8
7918.8	40°	7778.2	7763.2	6490.5	4033.4	2485.5	2117.7	1942.7	1836.5	1742.3	1666.0
8469.1	42.5°	8343.5	8255.2	6578.8	3825.5	2258.2	1975.6	1812.6	1669.0	1544.9	1474.6
9091.2	45°	8961.1	8762.2	6577.3	3560.8	2066.8	1845.5	1673.5	1470.1	1354.9	1289.1
9729.8	47.5°	9616.2	9246.8	6496.5	3267.7	1881.4	1701.9	1458.1	1302.6	1226.3	1185.9
10423.7	50°	10292.1	9699.9	6358.9	2931.2	1691.4	1538.9	1323.5	1217.3	1159.0	1121.6
11111.7	52.5°	10927.7	10111.2	6192.9	2549.9	1498.5	1380.4	1263.7	1181.5	1120.1	1078.3
11778.7	55°	11518.5	10465.6	5958.1	2159.5	1341.5	1274.2	1235.3	1166.5	1096.2	1046.9
12456.2	57.5°	12043.4	10695.9	5552.9	1793.1	1229.3	1200.9	1205.4	1141.1	1060.3	1018.4
13123.2	60°	12480.1	10864.9	4953.1	1453.6	1138.1	1129.1	1159.0	1093.2	999.0	951.1
13687.0	62.5°	12741.8	10861.9	4217.4	1190.4	1060.3	1063.3	1097.7	1033.4	937.7	892.8
13981.6	65°	12719.4	10595.7	3409.8	1018.4	985.5	988.5	1033.4	967.6	886.8	859.9
13833.5	67.5°	12269.2	9946.7	2615.7	906.3	903.3	916.8	969.1	922.7	855.4	852.4
12951.2	70°	11050.4	8599.2	1884.3	816.6	818.0	837.5	906.3	894.3	839.0	845.0
10888.9	72.5°	8860.9	6556.3	1265.2	722.3	723.8	755.2	846.5	871.9	822.5	901.8
7725.8	75°	5901.3	4088.7	813.6	622.1	623.6	664.0	794.1	828.5	777.7	898.8
4019.9	77.5°	2835.5	1838.0	589.2	523.4	523.4	560.8	686.4	741.8	662.5	698.4
1292.1	80°	979.6	690.9	463.6	421.7	412.8	438.2	578.8	643.1	571.3	526.4
421.7	82.5°	385.8	358.9	372.4	327.5	297.6	314.1	450.2	530.9	420.2	379.9
237.8	85°	221.3	233.3	263.2	216.8	172.0	192.9	330.5	381.4	317.0	279.7
77.8	87.5°	59.8	82.3	121.1	112.2	77.8	82.3	157.0	210.9	182.5	140.6
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>
3157.0
3237.8
3366.4
3521.9
3665.5
3716.4
3717.9
3652.0
3498.0
3279.7
3050.9
2841.5
2656.0
2424.2
2164.0
1905.3
1673.5
1479.1
1286.1
1177.0
1108.2
1060.3
1027.4
991.5
930.2
879.4
858.4
856.9
843.5
913.8
906.3
640.1
493.5
378.4
285.6
145.1
0.0

F REPORT)