

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: P941682

Luminaire Tested: **GALN-SB5B-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5B-830-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25336 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

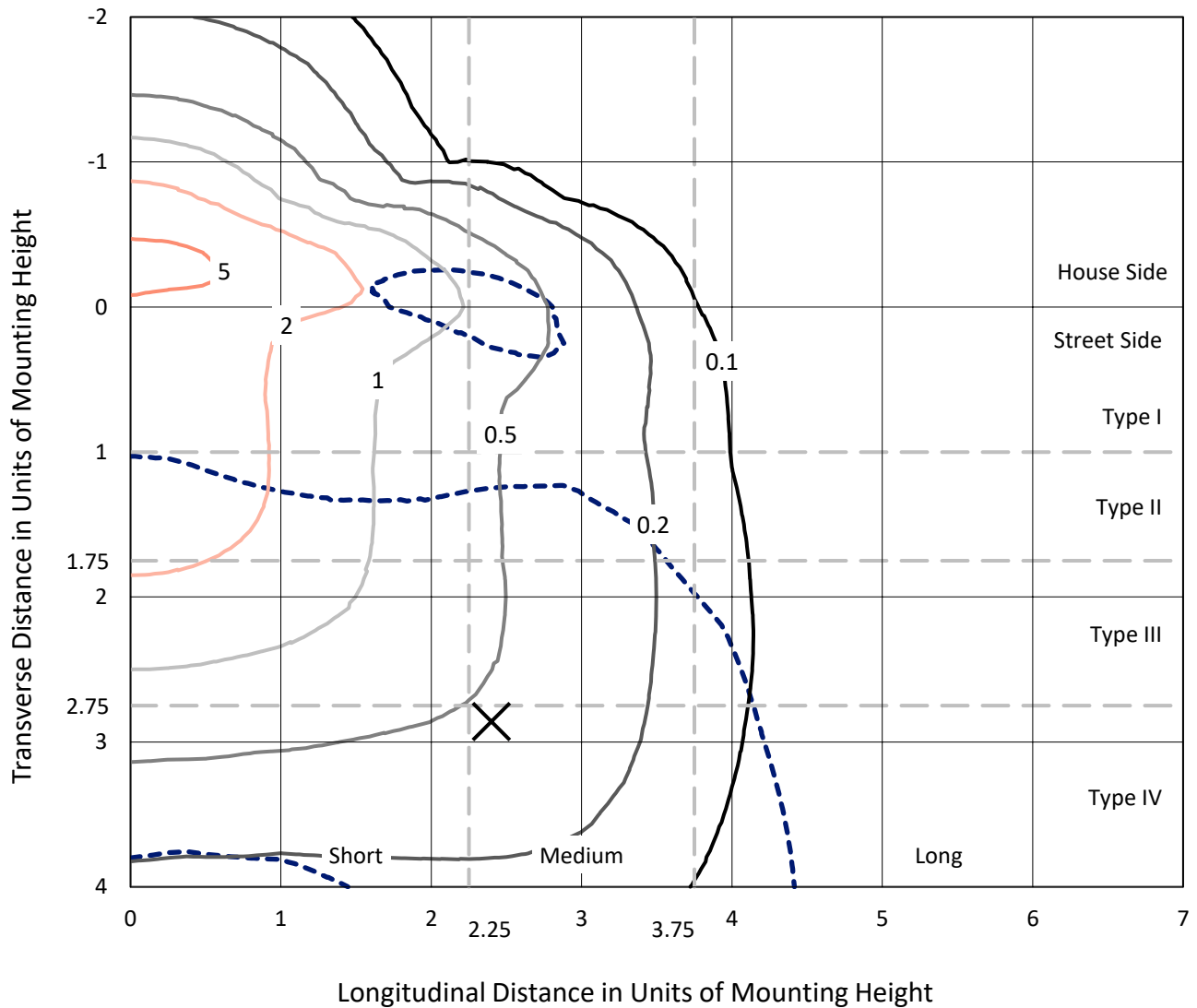
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941682
 CATALOG NUMBER: GALN-SB5B-830-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

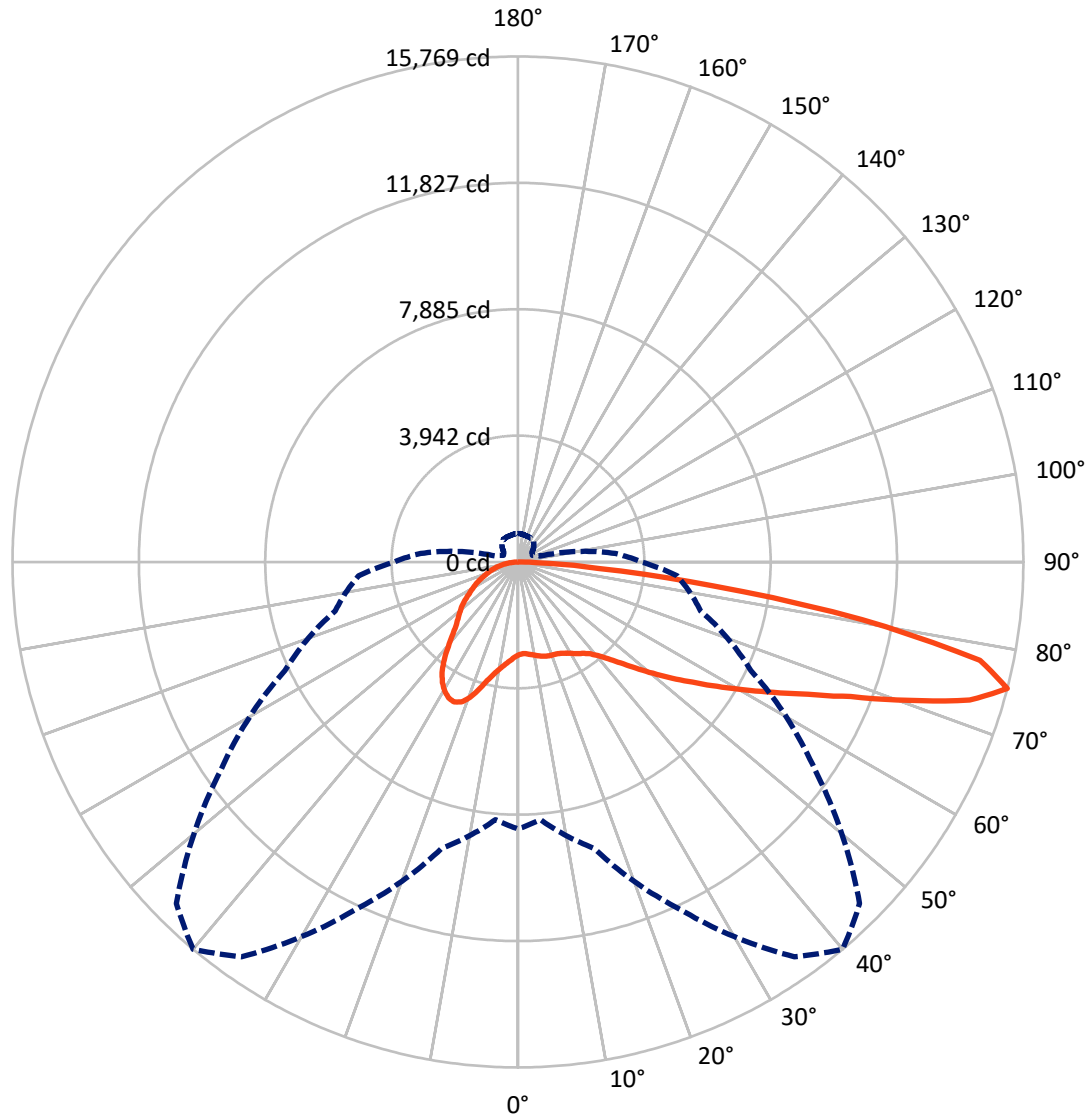
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Medium - N/A

REPORT NUMBER: P941682
CATALOG NUMBER: GALN-SB5B-830-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P941682

CATALOG NUMBER: GALN-SB5B-830-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7849.9	0.0	7849.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	17486.1	0.0	17486.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	25336.0	0.0	25336.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.2	1.1
10°-20°	971.0	3.8
20°-30°	1772.9	7.0
30°-40°	2514.5	9.9
40°-50°	3395.3	13.4
50°-60°	4567.6	18.0
60°-70°	5797.3	22.9
70°-80°	5261.4	20.8
80°-90°	766.9	3.0
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°	25336.0	100.0
0°-180°	25336.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941682

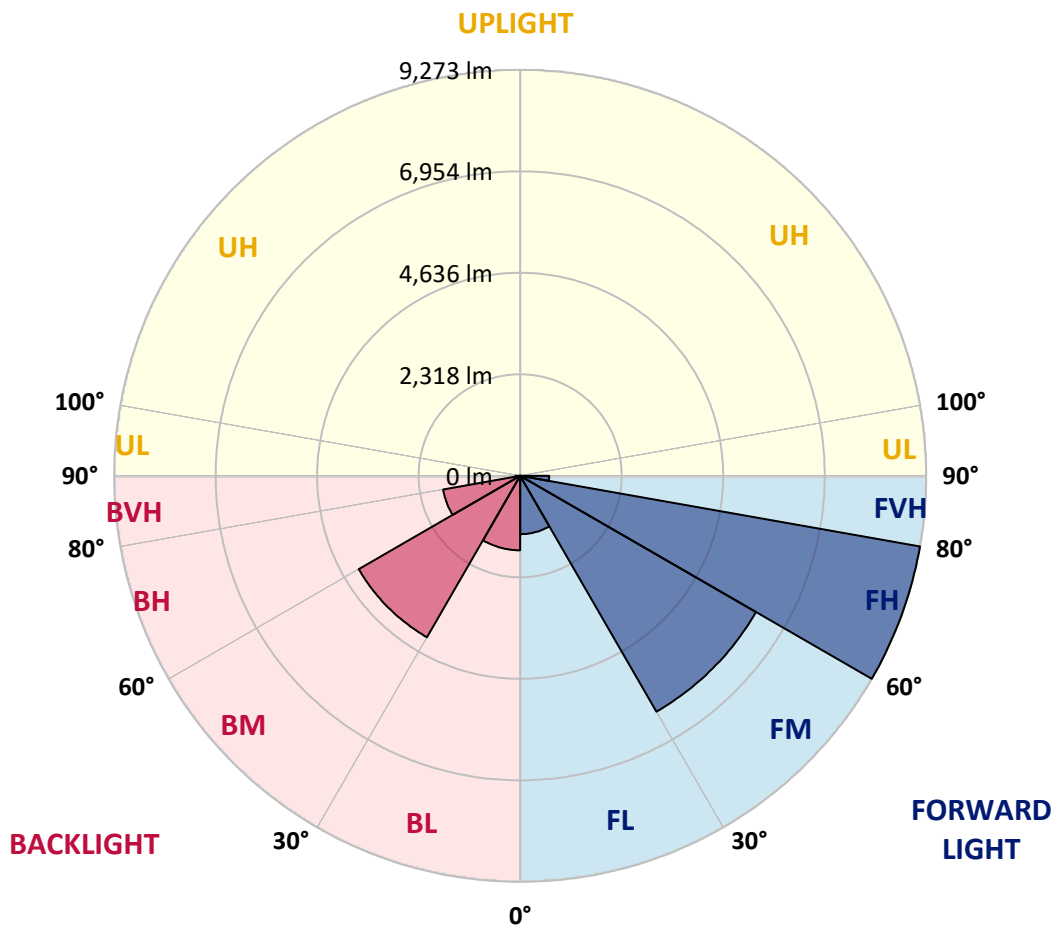
CATALOG NUMBER: GALN-SB5B-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1332.7	5.3			
FM (30°-60°)	6219.4	24.5			
FH (60°-80°)	9272.6	36.6			G4/12000
FVH (80°-90°)	661.4	2.6			G4/750
BL (0°-30°)	1700.4	6.7	B3/2500		
BM (30°-60°)	4257.9	16.8	B3/5000		
BH (60°-80°)	1786.1	7.0	B3/2500		G3/2500
BVH (80°-90°)	105.6	0.4			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 IV Medium



REPORT NUMBER: P941682

CATALOG NUMBER: GALN-SB5B-830-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	2897.2	2897.2	2897.2	2897.2	2897.2	2897.2	2897.2	2897.2	2897.2	2897.2
2.5°	2852.9	2869.0	2865.0	2859.6	2859.6	2860.9	2859.6	2869.0	2878.4	2887.8
5°	2882.4	2898.5	2890.5	2883.8	2878.4	2877.0	2873.0	2871.7	2877.0	2889.1
7.5°	2940.2	2956.3	2944.2	2932.1	2921.4	2916.0	2910.6	2902.6	2898.5	2905.3
10°	3004.7	3020.8	3006.1	2984.6	2967.1	2960.4	2955.0	2946.9	2941.6	2945.6
12.5°	3069.2	3085.3	3065.2	3035.6	3012.8	3008.7	3002.0	2999.3	2998.0	2996.6
15°	3129.7	3143.1	3117.6	3082.6	3058.5	3051.7	3045.0	3049.1	3055.8	3063.8
17.5°	3176.7	3190.2	3152.5	3106.8	3084.0	3081.3	3077.3	3090.7	3109.5	3129.7
20°	3219.7	3233.2	3184.8	3123.0	3096.1	3096.1	3097.4	3125.6	3152.5	3182.1
22.5°	3280.2	3290.9	3231.8	3147.1	3108.2	3110.9	3121.6	3149.8	3183.4	3223.7
25°	3370.2	3378.3	3305.7	3192.8	3148.5	3156.6	3166.0	3179.4	3211.7	3258.7
27.5°	3515.3	3522.1	3426.7	3273.5	3206.3	3219.7	3233.2	3223.7	3238.5	3278.8
30°	3719.6	3723.6	3602.7	3399.8	3304.4	3311.1	3313.8	3274.8	3246.6	3278.8
32.5°	3961.5	3960.1	3816.4	3553.0	3415.9	3409.2	3386.3	3309.7	3243.9	3272.1
35°	4336.4	4321.6	4136.2	3768.0	3542.2	3500.6	3446.8	3348.7	3257.3	3265.4
37.5°	4957.2	4911.5	4654.9	4120.1	3730.4	3624.2	3544.9	3411.9	3286.9	3262.7
40°	5657.3	5599.6	5317.4	4602.5	4012.5	3841.9	3714.2	3501.9	3335.3	3274.8
42.5°	6487.8	6405.8	6102.1	5170.9	4370.0	4122.7	3930.6	3616.1	3406.5	3313.8
45°	7507.7	7398.9	6968.9	5811.9	4820.2	4490.9	4234.3	3789.5	3515.3	3389.0
47.5°	8538.4	8565.3	7953.9	6545.6	5360.4	4945.1	4614.6	4050.2	3673.9	3510.0
50°	9633.6	9652.4	8933.5	7358.6	5973.1	5458.5	5041.9	4341.8	3894.3	3682.0
52.5°	10488.3	10490.9	9823.1	8209.2	6611.4	6022.9	5502.8	4675.0	4149.6	3910.4
55°	11023.1	11016.4	10446.6	9014.1	7345.1	6615.5	6013.4	5054.0	4461.4	4179.2
57.5°	11411.4	11391.3	10876.6	9706.2	8127.2	7315.6	6591.3	5484.0	4829.6	4499.0
60°	11559.3	11547.2	11168.2	10304.2	8949.6	8089.6	7257.8	5965.1	5247.5	4876.6
62.5°	11615.7	11638.5	11454.4	10883.3	9829.8	8946.9	7990.2	6540.2	5717.8	5303.9
65°	11814.6	11856.2	11818.6	11641.2	10824.2	9950.7	8961.7	7224.2	6231.1	5762.2
67.5°	12208.3	12250.0	12266.1	12548.3	12039.0	11201.8	10173.8	8076.2	6831.8	6237.9
70°	12198.9	12186.8	12471.7	13269.9	13560.2	12934.0	11807.9	9124.3	7548.1	6632.9
72.5°	11103.7	11007.0	11680.2	13261.8	14826.0	14742.7	13803.4	10476.2	8166.2	6681.3
75°	8330.1	8072.1	9261.4	11951.6	15037.0	15769.3	15071.9	11314.7	8019.7	5903.3
77.5°	3562.4	3303.0	4704.6	8847.5	13458.0	14741.3	13908.2	9871.5	6401.8	3903.7
80°	932.6	931.2	1421.7	4011.2	9152.5	10886.0	9550.3	6374.9	3657.8	1394.9
82.5°	385.7	376.3	522.7	1560.1	4472.1	6108.9	4985.5	2843.5	1320.9	377.6
85°	143.8	142.4	254.0	538.9	1577.6	2519.6	1823.5	727.0	329.2	184.1
87.5°	40.3	39.0	55.1	186.8	384.3	583.2	311.8	119.6	92.7	72.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941682
 CATALOG NUMBER: GALN-SB5B-830-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2897.2	0°	2897.2	2897.2	2897.2	2897.2	2897.2	2897.2	2897.2	2897.2	2897.2	2897.2
2902.6	2.5°	2906.6	2913.3	2925.4	2934.8	2946.9	2960.4	2979.2	2991.3	3003.4	3011.4
2909.3	5°	2918.7	2933.5	2964.4	2995.3	3031.6	3065.2	3104.1	3132.4	3155.2	3161.9
2933.5	7.5°	2945.6	2969.8	3022.2	3074.6	3132.4	3187.5	3243.9	3292.3	3331.2	3346.0
2976.5	10°	2992.6	3024.9	3098.8	3172.7	3249.3	3333.9	3406.5	3476.4	3531.5	3554.3
3027.6	12.5°	3051.7	3092.1	3188.8	3290.9	3397.1	3514.0	3608.1	3694.1	3762.6	3793.5
3098.8	15°	3128.3	3180.7	3304.4	3441.4	3597.3	3759.9	3879.5	3974.9	4051.5	4089.1
3172.7	17.5°	3211.7	3281.5	3437.4	3644.4	3867.4	4081.1	4220.8	4290.7	4370.0	4406.3
3241.2	20°	3292.3	3378.3	3601.3	3902.4	4199.3	4426.4	4539.3	4558.1	4563.5	4567.5
3305.7	22.5°	3375.6	3491.2	3806.9	4227.6	4546.0	4703.3	4719.4	4638.8	4525.9	4473.5
3368.9	25°	3467.0	3620.2	4075.7	4586.3	4844.4	4863.2	4739.5	4543.3	4329.7	4231.6
3419.9	27.5°	3555.7	3769.3	4398.2	4929.0	5059.4	4894.1	4628.0	4349.8	4091.8	3988.4
3456.2	30°	3644.4	3940.0	4754.3	5228.7	5157.5	4817.5	4452.0	4141.6	3882.2	3773.4
3488.5	32.5°	3734.4	4138.9	5164.2	5445.0	5140.0	4654.9	4232.9	3907.7	3679.3	3565.1
3516.7	35°	3836.5	4383.4	5552.5	5563.3	5023.1	4415.7	3944.0	3628.2	3429.3	3338.0
3550.3	37.5°	3969.5	4693.8	5895.2	5592.8	4818.8	4065.0	3585.2	3297.7	3133.7	3092.1
3600.0	40°	4134.8	5067.4	6157.2	5545.8	4516.5	3639.0	3192.8	2963.1	2870.3	2879.7
3667.2	42.5°	4349.8	5485.3	6341.3	5424.9	4095.9	3199.6	2848.8	2746.7	2791.0	2828.7
3768.0	45°	4629.3	5919.4	6455.6	5219.3	3620.2	2827.3	2645.9	2670.1	2703.7	2707.7
3930.6	47.5°	4986.8	6358.8	6530.8	4908.9	3135.1	2565.3	2516.9	2522.3	2515.6	2487.4
4173.8	50°	5432.9	6786.1	6598.0	4497.7	2722.5	2401.3	2336.8	2318.0	2225.3	2133.9
4497.7	52.5°	5940.9	7178.5	6626.2	3987.0	2401.3	2264.3	2159.5	2041.2	1867.9	1839.6
4904.8	55°	6505.3	7541.3	6553.7	3359.5	2131.2	2088.2	1929.7	1787.2	1768.4	1744.2
5441.0	57.5°	7179.9	7932.4	6405.8	2659.4	1854.4	1882.6	1728.1	1744.2	1710.6	1673.0
6130.4	60°	7917.6	8336.9	6146.5	2021.1	1568.2	1626.0	1675.7	1674.4	1665.0	1634.0
6857.3	62.5°	8581.4	8602.9	5635.8	1548.0	1316.9	1427.1	1562.8	1561.5	1553.4	1535.9
7616.6	65°	8976.5	8562.6	4783.9	1218.8	1110.0	1263.2	1409.6	1420.4	1421.7	1420.4
8187.7	67.5°	8906.6	8090.9	3614.8	970.2	939.3	1096.5	1257.8	1272.6	1283.3	1286.0
8260.3	70°	8116.5	7054.9	2357.0	774.0	787.5	950.1	1114.0	1128.8	1138.2	1148.9
7167.8	72.5°	6326.6	5187.0	1349.2	626.2	654.4	823.7	971.6	989.0	994.4	1014.6
4988.1	75°	3855.3	3050.4	728.3	493.2	537.5	704.1	830.5	850.6	860.0	884.2
2449.7	77.5°	1832.9	1320.9	415.2	384.3	432.7	575.1	701.5	724.3	698.8	712.2
675.9	80°	619.5	490.5	262.0	292.9	330.6	448.8	561.7	584.5	530.8	528.1
224.4	82.5°	216.3	198.9	166.6	194.8	213.7	321.2	424.6	454.2	395.1	393.7
100.8	85°	84.7	80.6	92.7	106.2	127.7	197.5	279.5	294.3	243.2	196.2
29.6	87.5°	17.5	18.8	22.8	24.2	39.0	68.5	100.8	123.6	98.1	83.3
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>
2897.2
3006.1
3164.6
3347.4
3555.7
3793.5
4086.5
4404.9
4578.3
4488.2
4246.4
4000.5
3785.4
3579.8
3358.1
3121.6
2912.0
2863.6
2734.6
2508.9
2146.0
1849.1
1748.3
1666.3
1623.3
1529.2
1420.4
1288.7
1154.3
1022.6
886.9
701.5
522.7
374.9
193.5
76.6
0.0

F REPORT)