

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: P941687

Luminaire Tested: **GALN-SB5B-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941687
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-830-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25576 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

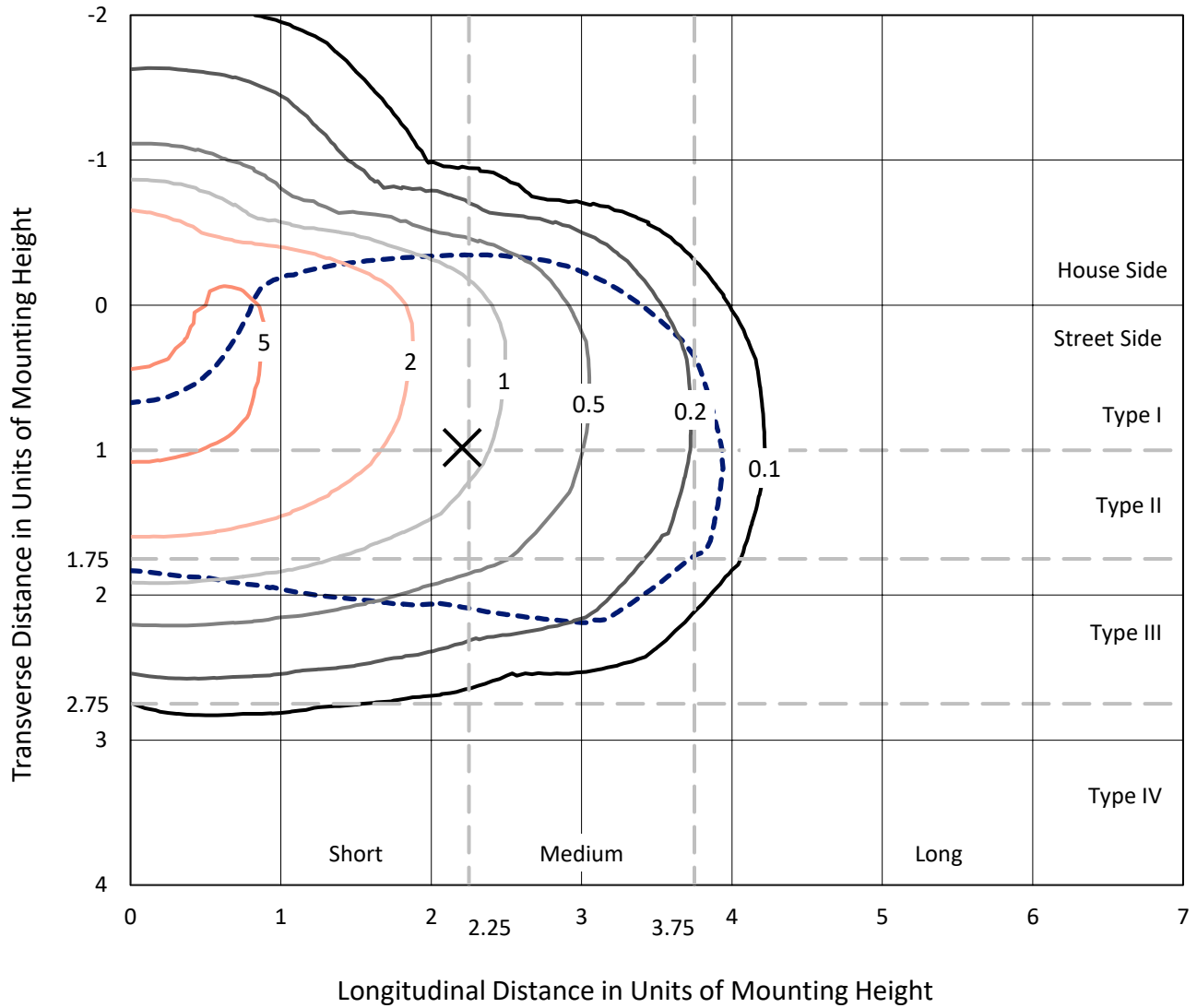
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941687
 CATALOG NUMBER: GALN-SB5B-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

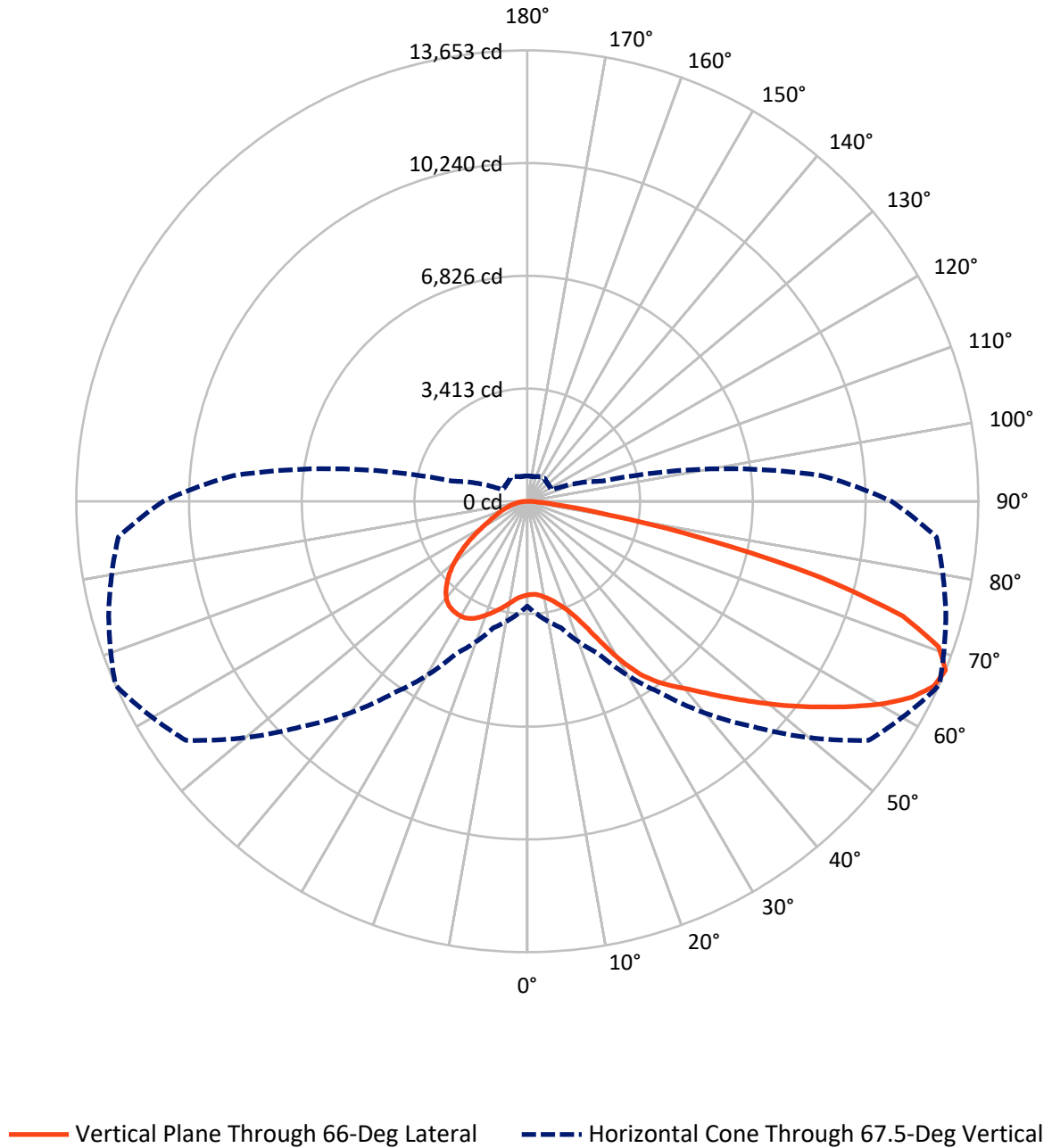
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - N/A

REPORT NUMBER: P941687
CATALOG NUMBER: GALN-SB5B-830-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P941687
 CATALOG NUMBER: GALN-SB5B-830-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6359.4	0.0	6359.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	19216.6	0.0	19216.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	25576.0	0.0	25576.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.2	1.1
10°-20°	929.2	3.6
20°-30°	1791.0	7.0
30°-40°	3140.3	12.3
40°-50°	4668.6	18.3
50°-60°	5917.9	23.1
60°-70°	5790.5	22.6
70°-80°	2762.1	10.8
80°-90°	295.2	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°	25576.0	100.0
0°-180°	25576.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941687

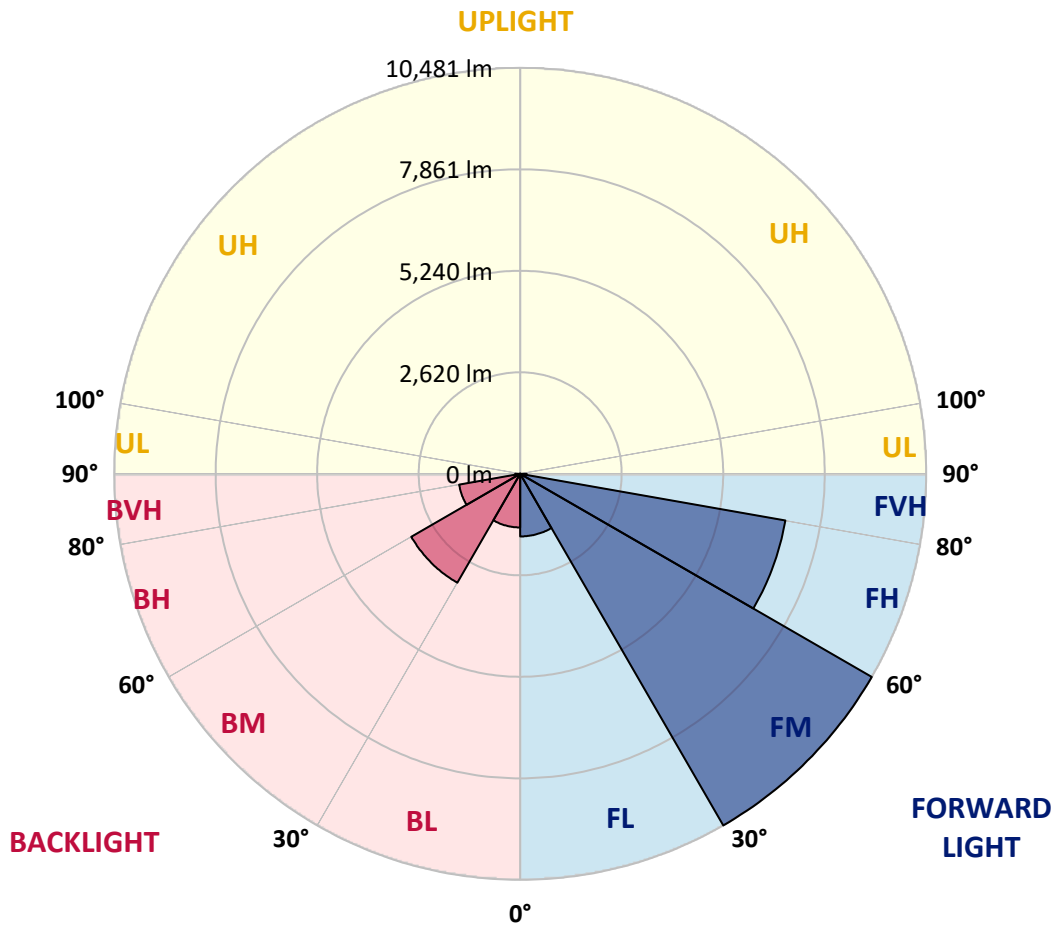
CATALOG NUMBER: GALN-SB5B-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1616.1	6.3			
FM (30°-60°)	10480.8	41.0			
FH (60°-80°)	6952.3	27.2			G3/7500
FVH (80°-90°)	167.4	0.7			G2/225
BL (0°-30°)	1385.3	5.4	B3/2500		
BM (30°-60°)	3245.9	12.7	B3/5000		
BH (60°-80°)	1600.3	6.3	B3/2500		G3/2500
BVH (80°-90°)	127.8	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-G3

Type III Short



REPORT NUMBER: P941687
 CATALOG NUMBER: GALN-SB5B-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	2836.7	2836.7	2836.7	2836.7	2836.7	2836.7	2836.7	2836.7	2836.7	2836.7
2.5°	2807.2	2823.3	2819.2	2812.5	2811.2	2813.9	2817.9	2821.9	2820.6	2827.3
5°	2799.1	2815.2	2813.9	2813.9	2819.2	2830.0	2836.7	2843.4	2836.7	2844.8
7.5°	2804.5	2816.6	2821.9	2827.3	2840.7	2860.9	2877.0	2891.8	2883.7	2893.2
10°	2873.0	2882.4	2887.8	2887.8	2897.2	2920.0	2936.2	2963.0	2956.3	2971.1
12.5°	2998.0	3007.4	3007.4	3002.0	3008.7	3023.5	3028.9	3058.4	3046.3	3070.5
15°	3151.2	3170.0	3155.2	3145.8	3148.5	3163.3	3161.9	3184.8	3172.7	3192.8
17.5°	3320.5	3344.7	3320.5	3319.1	3313.8	3329.9	3331.2	3351.4	3329.9	3344.7
20°	3520.7	3554.3	3534.1	3540.9	3528.8	3535.5	3542.2	3571.8	3538.2	3548.9
22.5°	3802.9	3843.2	3821.7	3847.2	3839.2	3833.8	3832.5	3884.9	3832.5	3836.5
25°	4214.1	4262.5	4224.8	4259.8	4259.8	4277.2	4297.4	4364.6	4277.2	4251.7
27.5°	4821.5	4869.9	4795.9	4817.4	4810.7	4853.7	4832.2	4998.9	4904.8	4863.1
30°	5552.5	5638.5	5498.7	5493.4	5486.6	5555.2	5586.1	5696.3	5600.9	5559.2
32.5°	6342.6	6432.7	6266.0	6217.7	6192.1	6233.8	6208.3	6296.9	6231.1	6166.6
35°	7178.5	7267.2	7108.6	7014.5	6912.4	6825.1	6733.7	6756.5	6694.7	6596.6
37.5°	7968.6	8131.2	7963.2	7862.4	7674.3	7503.7	7248.3	7142.2	7084.4	6994.4
40°	8773.5	8866.3	8738.6	8652.6	8448.3	8180.9	7772.4	7548.0	7470.1	7382.7
42.5°	9366.1	9454.8	9386.3	9327.2	9167.3	8856.8	8328.7	8047.9	7935.0	7836.9
45°	9836.5	9902.3	9859.3	9880.8	9812.3	9511.3	8905.2	8584.1	8467.1	8347.6
47.5°	10025.9	10095.8	10164.3	10292.0	10408.9	10187.2	9524.7	9164.6	9040.9	8918.7
50°	10004.4	10075.7	10274.5	10546.0	10908.8	10834.9	10177.8	9782.7	9668.5	9528.7
52.5°	9832.4	9913.1	10168.4	10619.9	11197.7	11320.0	10842.9	10421.0	10313.5	10146.9
55°	9380.9	9429.3	9812.3	10451.9	11266.2	11658.6	11494.7	11101.0	10993.5	10761.0
57.5°	8543.7	8613.6	9171.3	9999.1	11094.2	11888.4	12067.1	11815.8	11712.4	11377.8
60°	7451.3	7562.8	8201.1	9238.5	10656.2	11887.1	12587.2	12518.6	12432.6	11985.2
62.5°	6215.0	6344.0	6958.1	8163.5	9890.2	11549.8	12912.4	13107.2	13062.9	12545.5
65°	4773.1	4861.8	5473.2	6772.6	8698.3	10825.5	12950.0	13509.0	13517.1	12971.5
67.5°	3178.0	3433.4	3964.1	5082.2	7101.9	9641.6	12619.4	13574.9	13652.8	13118.0
70°	1550.7	1886.7	2406.7	3303.0	5082.2	7826.2	11755.4	13034.7	13208.0	12690.6
72.5°	643.7	752.5	1036.1	1630.0	2917.3	5281.0	10019.2	11569.9	11891.1	11244.7
75°	434.0	470.3	592.6	835.8	1329.0	2604.2	7225.5	8627.1	9144.4	8492.7
77.5°	334.6	357.4	431.4	584.5	790.1	985.0	3867.4	5199.1	5466.5	5060.7
80°	263.4	280.8	322.5	426.0	560.4	526.8	1318.2	2355.6	2510.2	2105.7
82.5°	228.4	235.2	231.1	288.9	372.2	307.7	432.7	869.4	959.5	696.1
85°	165.3	184.1	192.2	178.7	197.5	155.9	177.4	307.7	338.6	302.4
87.5°	67.2	99.4	122.3	115.6	72.6	44.3	55.1	90.0	103.5	112.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941687
 CATALOG NUMBER: GALN-SB5B-830-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2836.7	0°	2836.7	2836.7	2836.7	2836.7	2836.7	2836.7	2836.7	2836.7	2836.7	2836.7
2838.1	2.5°	2839.4	2848.8	2855.5	2863.6	2869.0	2877.0	2893.2	2902.6	2903.9	2910.6
2859.6	5°	2864.9	2878.4	2893.2	2914.7	2938.8	2959.0	2989.9	3011.4	3019.5	3026.2
2912.0	7.5°	2920.0	2938.8	2965.7	3003.3	3038.3	3065.2	3102.8	3128.3	3153.8	3163.3
2995.3	10°	3002.0	3028.9	3067.8	3118.9	3156.5	3191.5	3230.4	3251.9	3277.5	3288.2
3094.7	12.5°	3104.1	3132.3	3183.4	3254.6	3289.6	3313.8	3327.2	3321.8	3327.2	3336.6
3214.3	15°	3221.0	3251.9	3309.7	3386.3	3410.5	3389.0	3359.4	3332.6	3328.5	3331.2
3359.4	17.5°	3359.4	3382.3	3449.5	3514.0	3496.5	3407.8	3343.3	3300.3	3278.8	3272.1
3544.9	20°	3553.0	3553.0	3608.0	3648.4	3531.4	3380.9	3280.2	3210.3	3165.9	3147.1
3797.5	22.5°	3788.1	3766.6	3801.5	3773.3	3524.7	3305.7	3165.9	3045.0	2977.8	2950.9
4150.9	25°	4086.4	4060.9	4051.5	3876.8	3476.4	3186.1	2959.0	2812.5	2753.4	2738.6
4660.2	27.5°	4536.6	4472.1	4349.8	3933.2	3387.7	2998.0	2717.1	2581.4	2547.8	2549.1
5314.6	30°	5135.9	5006.9	4707.3	3942.6	3242.5	2731.9	2469.9	2373.1	2357.0	2363.7
5864.2	32.5°	5690.9	5568.6	5072.8	3899.6	3019.5	2471.2	2248.1	2183.6	2159.5	2167.5
6283.5	35°	6126.3	6092.7	5411.4	3839.2	2745.3	2226.6	2049.3	1994.2	1947.1	1936.4
6678.6	37.5°	6537.5	6524.0	5665.4	3754.5	2473.9	2053.3	1889.4	1816.8	1748.3	1710.6
7115.3	40°	6989.0	6975.6	5832.0	3624.2	2233.4	1902.8	1745.6	1650.2	1565.5	1497.0
7609.8	42.5°	7496.9	7417.7	5911.3	3437.4	2029.1	1775.1	1628.7	1499.7	1388.1	1325.0
8168.8	45°	8051.9	7873.2	5909.9	3199.5	1857.1	1658.2	1503.7	1320.9	1217.5	1158.3
8742.6	47.5°	8640.5	8308.6	5837.4	2936.2	1690.5	1529.2	1310.2	1170.4	1101.9	1065.6
9366.1	50°	9247.9	8715.7	5713.7	2633.8	1519.8	1382.7	1189.2	1093.8	1041.4	1007.8
9984.3	52.5°	9819.0	9085.3	5564.6	2291.1	1346.5	1240.3	1135.5	1061.6	1006.5	968.9
10583.6	55°	10349.8	9403.8	5353.6	1940.4	1205.4	1144.9	1110.0	1048.1	985.0	940.6
11192.3	57.5°	10821.4	9610.7	4989.4	1611.2	1104.6	1079.1	1083.1	1025.3	952.7	915.1
11791.7	60°	11213.8	9762.6	4450.6	1306.2	1022.6	1014.6	1041.4	982.3	897.6	854.6
12298.3	62.5°	11449.0	9759.9	3789.5	1069.6	952.7	955.4	986.3	928.6	842.5	802.2
12563.0	65°	11428.8	9520.7	3063.8	915.1	885.6	888.2	928.6	869.4	796.9	772.7
12430.0	67.5°	11024.4	8937.5	2350.3	814.3	811.6	823.7	870.8	829.1	768.6	766.0
11637.1	70°	9929.2	7726.7	1693.2	733.7	735.0	752.5	814.3	803.6	753.9	759.2
9784.1	72.5°	7961.9	5891.1	1136.8	649.0	650.4	678.6	760.6	783.4	739.1	810.3
6942.0	75°	5302.5	3673.9	731.0	559.0	560.4	596.6	713.5	744.5	698.8	807.6
3612.1	77.5°	2547.8	1651.5	529.4	470.3	470.3	503.9	616.8	666.5	595.3	627.5
1161.0	80°	880.2	620.8	416.6	378.9	370.9	393.7	520.0	577.8	513.3	473.0
378.9	82.5°	346.7	322.5	334.6	294.3	267.4	282.2	404.5	477.0	377.6	341.3
213.7	85°	198.9	209.6	236.5	194.8	154.5	173.3	297.0	342.7	284.9	251.3
69.9	87.5°	53.8	73.9	108.8	100.8	69.9	73.9	141.1	189.5	163.9	126.3
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

180°
2836.7
2909.3
3024.8
3164.6
3293.6
3339.3
3340.6
3281.5
3143.1
2946.9
2741.3
2553.2
2386.6
2178.3
1944.4
1712.0
1503.7
1329.0
1155.6
1057.6
995.7
952.7
923.2
890.9
835.8
790.1
771.3
770.0
757.9
821.0
814.3
575.1
443.4
340.0
256.7
130.3
0.0

F REPORT)