

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: P949655

Luminaire Tested: **GALN-SB4B-830-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949655  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB4B-830-U-T2U  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

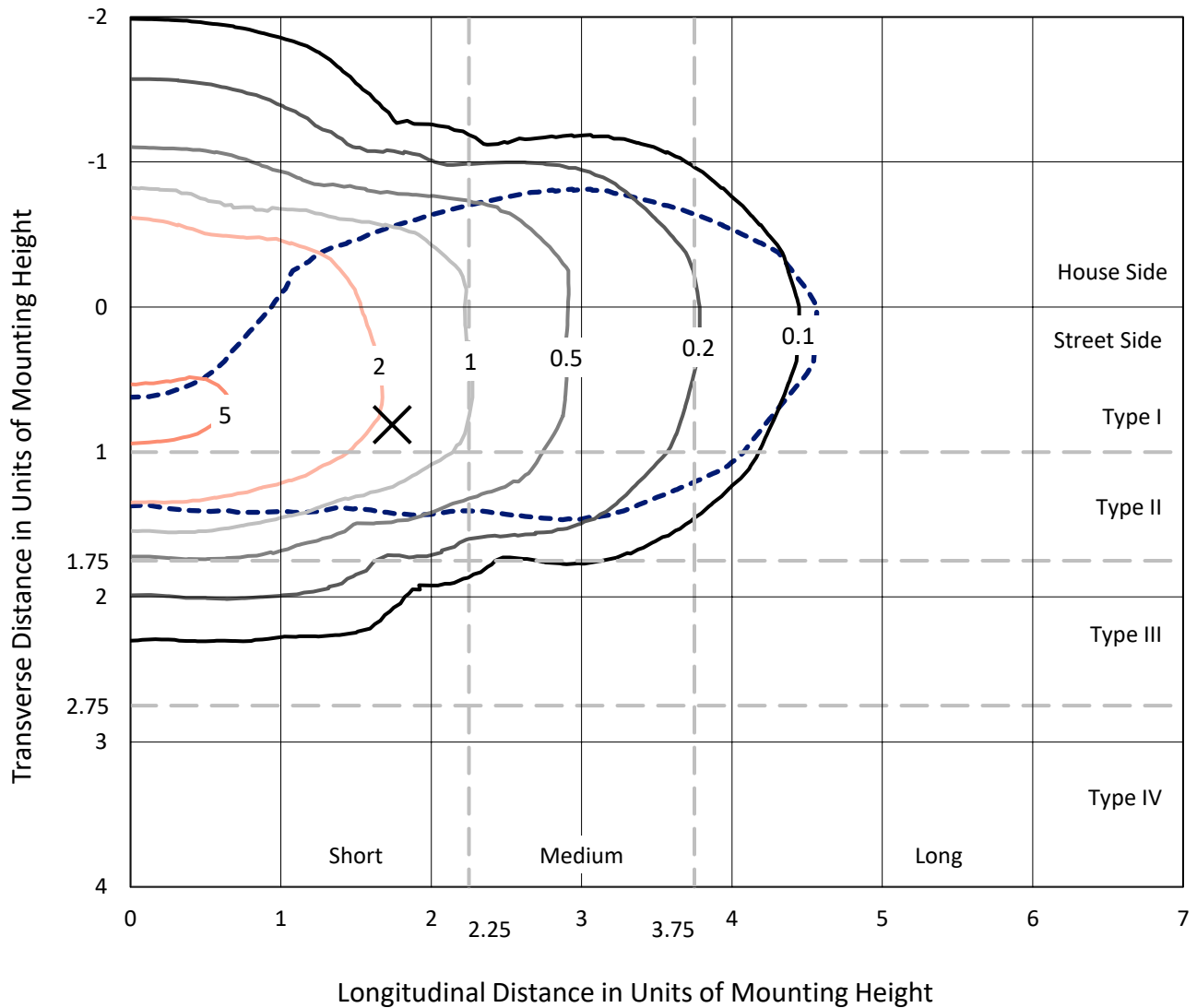
Lumens per Lamp: N/A  
Luminaire Lumens: 20550 lumens  
Efficiency: N/A  
Efficacy: 139.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 147  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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: P949655  
 CATALOG NUMBER: GALN-SB4B-830-U-T2U

### Iso-Footcandle Lines of Horizontal Illumination

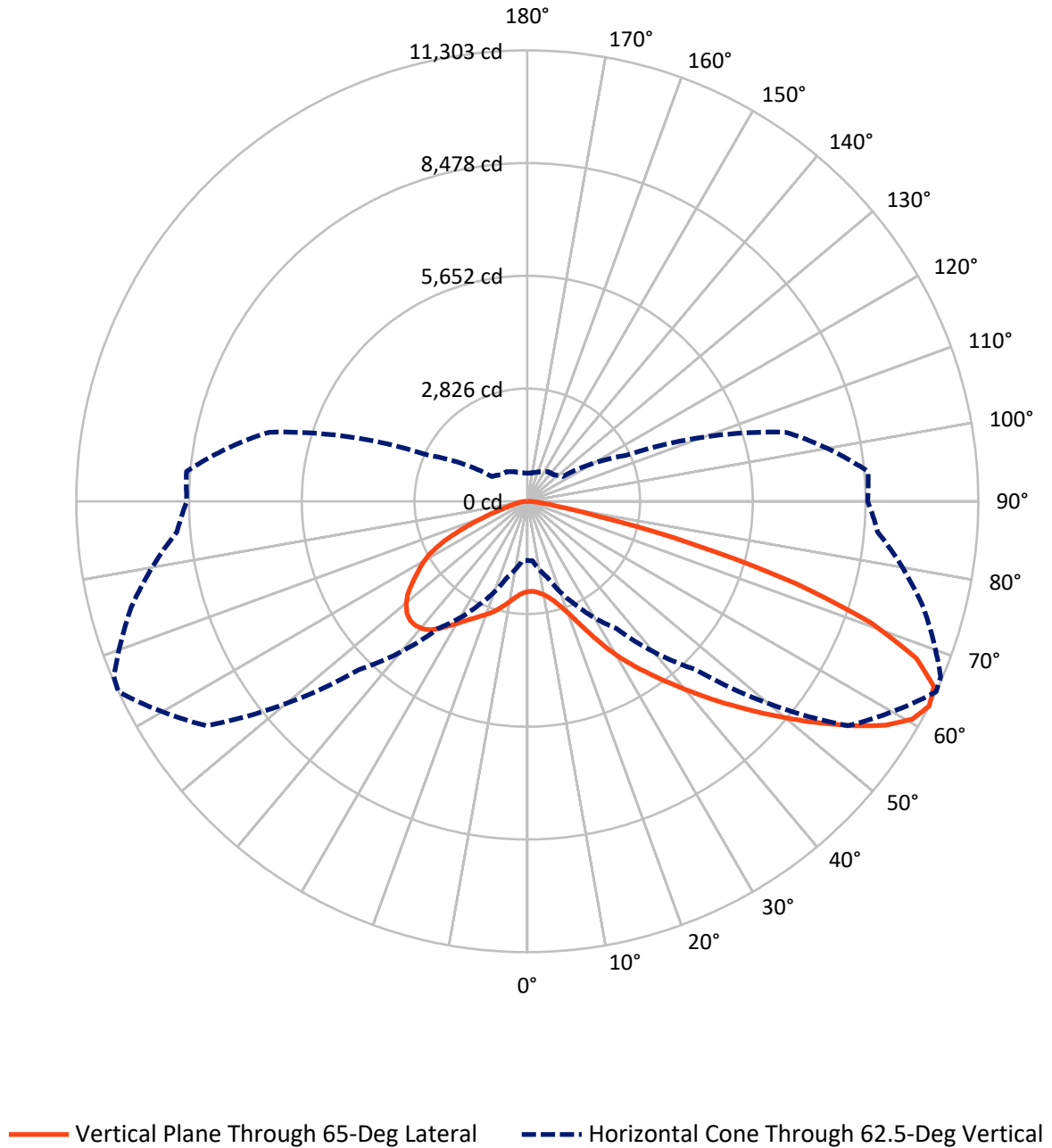
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P949655  
CATALOG NUMBER: GALN-SB4B-830-U-T2U

### Luminous Intensity Polar Plot



REPORT NUMBER: P949655  
 CATALOG NUMBER: GALN-SB4B-830-U-T2U

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6484.7	0.0	6484.7
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	14065.3	0.0	14065.3
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	20550.0	0.0	20550.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.8	1.1
10°-20°	765.6	3.7
20°-30°	1552.4	7.6
30°-40°	2686.3	13.1
40°-50°	4065.2	19.8
50°-60°	4766.2	23.2
60°-70°	3995.9	19.4
70°-80°	2206.1	10.7
80°-90°	286.6	1.4
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°	20550.0	100.0
0°-180°	20550.0	100.0



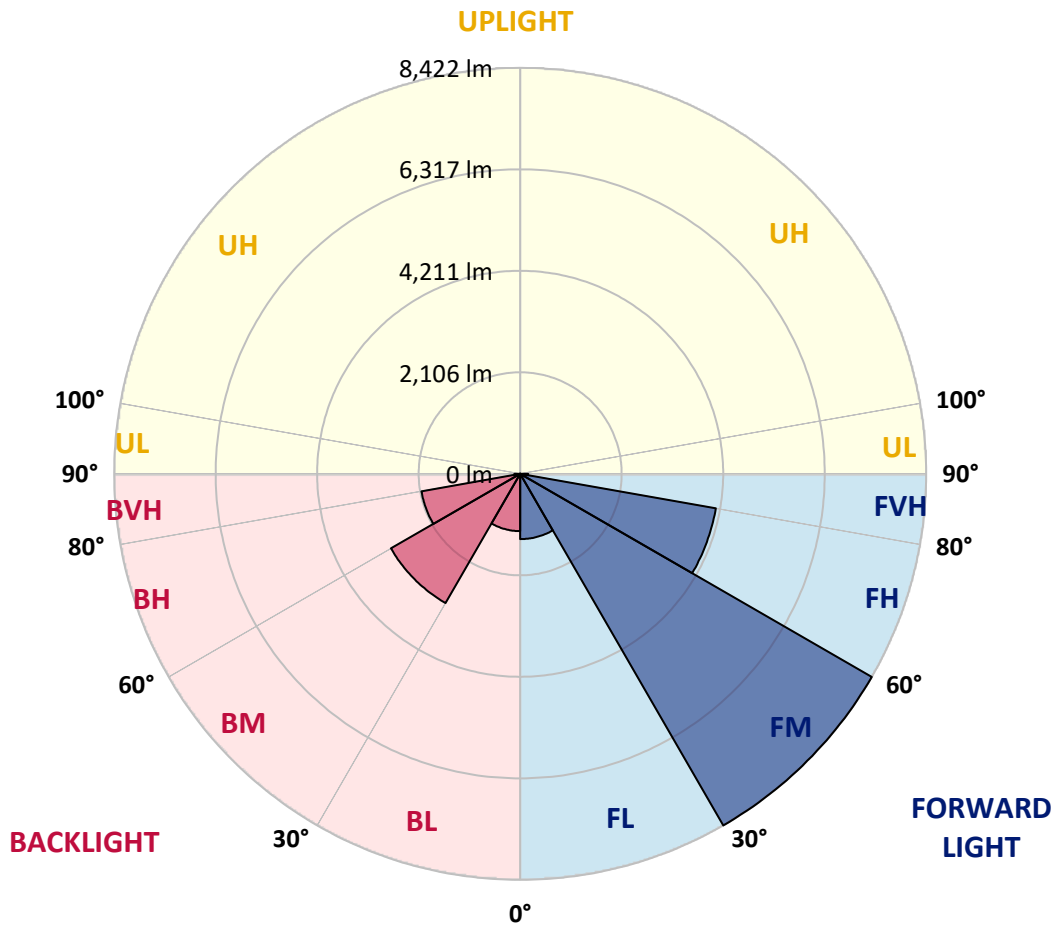
REPORT NUMBER: P949655  
 CATALOG NUMBER: GALN-SB4B-830-U-T2U

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1354.5	6.6			
FM (30°-60°)	8422.1	41.0			
FH (60°-80°)	4121.7	20.1			G2/5000
FVH (80°-90°)	167.0	0.8			G2/225
BL (0°-30°)	1189.2	5.8	B3/2500		
BM (30°-60°)	3095.7	15.1	B3/5000		
BH (60°-80°)	2080.2	10.1	B3/2500		G3/2500
BVH (80°-90°)	119.5	0.6			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 II Short



REPORT NUMBER: P949655  
 CATALOG NUMBER: GALN-SB4B-830-U-T2U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	2264.5	2264.5	2264.5	2264.5	2264.5	2264.5	2264.5	2264.5	2264.5	2264.5
2.5°	2249.6	2243.2	2248.5	2248.5	2250.7	2249.6	2257.1	2259.2	2262.4	2268.8
5°	2227.2	2226.1	2235.7	2244.3	2252.8	2260.3	2269.9	2283.7	2285.8	2293.3
7.5°	2219.7	2213.3	2228.3	2238.9	2259.2	2277.3	2302.9	2326.4	2336.0	2339.2
10°	2277.3	2266.7	2280.5	2286.9	2304.0	2322.1	2351.9	2389.3	2399.9	2412.7
12.5°	2375.4	2363.7	2383.9	2393.5	2409.5	2425.5	2445.8	2482.0	2487.3	2510.8
15°	2509.7	2495.9	2508.7	2520.4	2547.1	2562.0	2582.2	2617.4	2617.4	2635.5
17.5°	2692.1	2673.9	2683.5	2687.8	2704.8	2727.2	2761.4	2792.3	2808.3	2801.9
20°	2963.9	2941.5	2941.5	2920.2	2913.8	2931.9	2976.7	3019.4	3036.4	3003.4
22.5°	3372.3	3340.3	3322.2	3249.7	3220.9	3223.0	3267.8	3320.0	3333.9	3275.2
25°	3891.5	3841.4	3816.8	3710.2	3645.2	3588.7	3623.9	3691.0	3710.2	3637.7
27.5°	4410.7	4413.9	4390.4	4262.5	4154.8	4051.4	4033.3	4103.6	4123.9	4041.8
30°	5138.9	5063.2	5018.4	4864.9	4711.4	4566.4	4491.7	4520.5	4525.8	4427.8
32.5°	5766.9	5747.7	5651.7	5517.4	5320.1	5093.0	4968.3	4922.5	4913.9	4774.3
35°	6482.2	6471.6	6370.3	6210.4	5997.1	5681.6	5456.6	5325.5	5314.8	5118.6
37.5°	7209.4	7209.4	7110.2	6935.4	6714.7	6320.2	5978.0	5770.1	5735.9	5480.1
40°	7789.4	7754.2	7772.3	7698.7	7446.1	7027.1	6556.9	6255.2	6209.3	5902.3
42.5°	8118.8	8107.1	8215.8	8297.9	8194.5	7859.7	7194.4	6780.8	6716.8	6367.1
45°	8192.4	8179.6	8373.6	8674.3	8819.3	8681.7	7887.4	7334.1	7256.3	6853.3
47.5°	8022.8	7997.3	8281.9	8756.4	9221.2	9463.2	8638.0	7934.4	7821.3	7326.6
50°	7513.2	7488.7	7919.4	8549.5	9356.6	9994.2	9452.6	8570.8	8398.1	7834.1
52.5°	6405.5	6417.2	7092.1	7957.8	9178.6	10324.7	10154.1	9241.5	9033.6	8353.4
55°	4989.6	5015.2	5844.7	6797.8	8466.4	10274.6	10632.8	9932.3	9725.5	8841.7
57.5°	3572.7	3685.7	4462.9	5406.5	7098.5	9480.3	10737.3	10589.1	10388.6	9374.7
60°	2315.7	2336.0	3135.6	4086.6	5405.4	8068.7	10525.1	11087.0	10930.3	9918.5
62.5°	1484.1	1498.0	1985.2	2858.4	3890.4	5969.4	9810.8	11303.4	11255.4	10277.8
65°	1090.7	1080.0	1333.8	1889.2	2620.6	3681.4	8423.7	11198.9	11293.8	10502.7
67.5°	910.5	895.6	1020.3	1308.2	1930.8	2090.7	6232.8	10519.8	10867.4	10477.1
70°	829.5	816.7	892.4	971.3	1506.5	1399.9	3142.0	9145.5	9680.7	10186.1
72.5°	702.6	680.2	783.6	862.5	1171.7	1073.6	1298.6	7024.9	7677.4	9253.2
75°	544.8	529.9	618.4	759.1	880.6	838.0	820.9	4265.7	4977.9	7156.1
77.5°	431.8	411.5	492.6	591.7	792.2	632.2	598.1	1837.0	2542.8	4568.5
80°	325.2	307.1	374.2	468.0	608.8	476.6	387.0	749.5	958.5	2314.6
82.5°	231.4	215.4	261.2	343.3	409.4	427.5	237.8	420.1	472.3	892.4
85°	148.2	138.6	174.9	215.4	260.1	275.1	145.0	219.6	241.0	367.8
87.5°	81.0	66.1	93.8	100.2	120.5	109.8	69.3	80.0	86.4	133.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949655  
 CATALOG NUMBER: GALN-SB4B-830-U-T2U

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2264.5	0°	2264.5	2264.5	2264.5	2264.5	2264.5	2264.5	2264.5	2264.5	2264.5	2264.5
2268.8	2.5°	2273.1	2276.2	2286.9	2290.1	2297.6	2307.2	2313.6	2320.0	2320.0	2326.4
2302.9	5°	2304.0	2311.4	2333.8	2345.5	2364.7	2383.9	2395.7	2409.5	2418.0	2422.3
2357.3	7.5°	2363.7	2375.4	2407.4	2427.6	2460.7	2487.3	2505.5	2524.7	2528.9	2540.7
2433.0	10°	2444.7	2458.6	2494.8	2533.2	2572.6	2605.7	2622.8	2636.6	2641.9	2644.1
2530.0	12.5°	2537.5	2557.7	2604.6	2651.5	2693.1	2721.9	2726.2	2723.0	2708.0	2695.2
2649.4	15°	2651.5	2669.7	2721.9	2773.1	2813.6	2818.9	2792.3	2775.2	2757.1	2753.9
2782.7	17.5°	2788.0	2797.6	2845.6	2895.7	2898.9	2880.8	2841.3	2825.3	2808.3	2796.5
2956.5	20°	2946.9	2943.7	2977.8	2999.1	2976.7	2921.3	2861.6	2834.9	2817.9	2804.0
3169.7	22.5°	3136.6	3112.1	3107.9	3102.5	3042.8	2926.6	2845.6	2811.5	2784.8	2765.6
3467.1	25°	3412.8	3319.0	3253.9	3217.7	3083.3	2897.8	2794.4	2718.7	2668.6	2635.5
3830.7	27.5°	3758.2	3600.4	3436.2	3347.7	3083.3	2839.2	2670.7	2548.1	2466.0	2431.9
4182.5	30°	4087.7	3922.4	3680.4	3504.5	3075.9	2743.2	2471.4	2300.8	2204.8	2170.7
4483.2	32.5°	4369.1	4188.9	3939.5	3676.1	3057.7	2587.6	2224.0	2035.3	1942.5	1902.0
4780.7	35°	4630.3	4438.4	4199.6	3864.8	3009.8	2359.4	1952.1	1808.2	1704.8	1639.8
5083.4	37.5°	4897.9	4669.8	4445.9	4035.4	2923.4	2092.9	1743.2	1620.6	1499.0	1411.6
5405.4	40°	5189.0	4916.1	4709.2	4136.7	2781.6	1839.1	1581.1	1469.2	1340.2	1247.4
5776.4	42.5°	5529.1	5211.4	5002.4	4188.9	2587.6	1658.9	1475.6	1365.7	1244.2	1168.5
6174.1	45°	5884.1	5536.6	5270.0	4187.9	2371.1	1574.7	1441.4	1332.7	1198.4	1119.5
6582.5	47.5°	6256.2	5876.7	5501.4	4119.6	2183.5	1586.4	1422.3	1261.3	1113.1	1036.3
6995.1	50°	6629.4	6248.8	5725.3	3991.7	2103.5	1560.9	1350.8	1161.0	986.2	916.9
7382.1	52.5°	6999.3	6644.3	5918.2	3809.4	2022.5	1466.0	1259.1	1031.0	934.0	886.0
7781.9	55°	7371.4	7035.6	6128.3	3543.9	1819.9	1355.1	1105.6	981.9	892.4	848.7
8173.2	57.5°	7744.6	7487.6	6327.7	3278.4	1565.1	1218.6	1021.4	922.2	850.8	813.5
8500.5	60°	8132.7	8004.7	6533.4	3034.3	1313.5	1043.8	959.5	874.3	801.8	760.2
8815.0	62.5°	8532.5	8574.0	6694.4	2719.8	1082.2	937.2	904.1	816.7	746.3	706.9
9075.1	65°	8935.5	9123.1	6800.0	2283.7	877.4	835.9	844.4	753.8	682.3	648.2
9266.0	67.5°	9239.3	9518.7	6770.1	1728.2	719.7	739.9	769.8	687.7	620.5	593.9
9235.1	70°	9273.4	9471.8	6475.8	1183.4	602.4	646.1	686.6	622.6	553.3	534.1
8800.1	72.5°	8819.3	8832.1	5656.0	773.0	509.6	567.2	599.2	556.5	489.4	470.2
7698.7	75°	7628.4	7304.3	4152.7	509.6	426.5	487.2	517.1	487.2	422.2	426.5
5760.5	77.5°	5779.6	5173.0	2521.5	362.5	356.1	409.4	449.9	428.6	373.2	419.0
2896.8	80°	2977.8	2798.7	1124.8	270.8	281.5	327.3	370.0	342.2	295.3	281.5
647.2	82.5°	682.3	793.2	443.5	194.0	203.6	235.6	282.5	256.9	212.2	179.1
269.7	85°	238.8	261.2	196.2	121.5	119.4	147.1	191.9	171.7	143.9	115.1
114.1	87.5°	75.7	99.2	73.6	49.0	51.2	66.1	88.5	81.0	67.2	43.7
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>
2264.5
2326.4
2424.4
2536.4
2638.7
2695.2
2753.9
2797.6
2805.1
2772.0
2648.3
2449.0
2191.0
1922.3
1661.1
1435.0
1265.5
1183.4
1132.3
1047.0
921.2
886.0
844.4
807.1
757.0
705.8
647.2
594.9
535.2
469.1
411.5
368.9
256.9
177.0
121.5
45.8
0.0

F REPORT)