

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: P949995

Luminaire Tested: **GALN-SB4C-827-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949995  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB4C-827-U-T4W  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

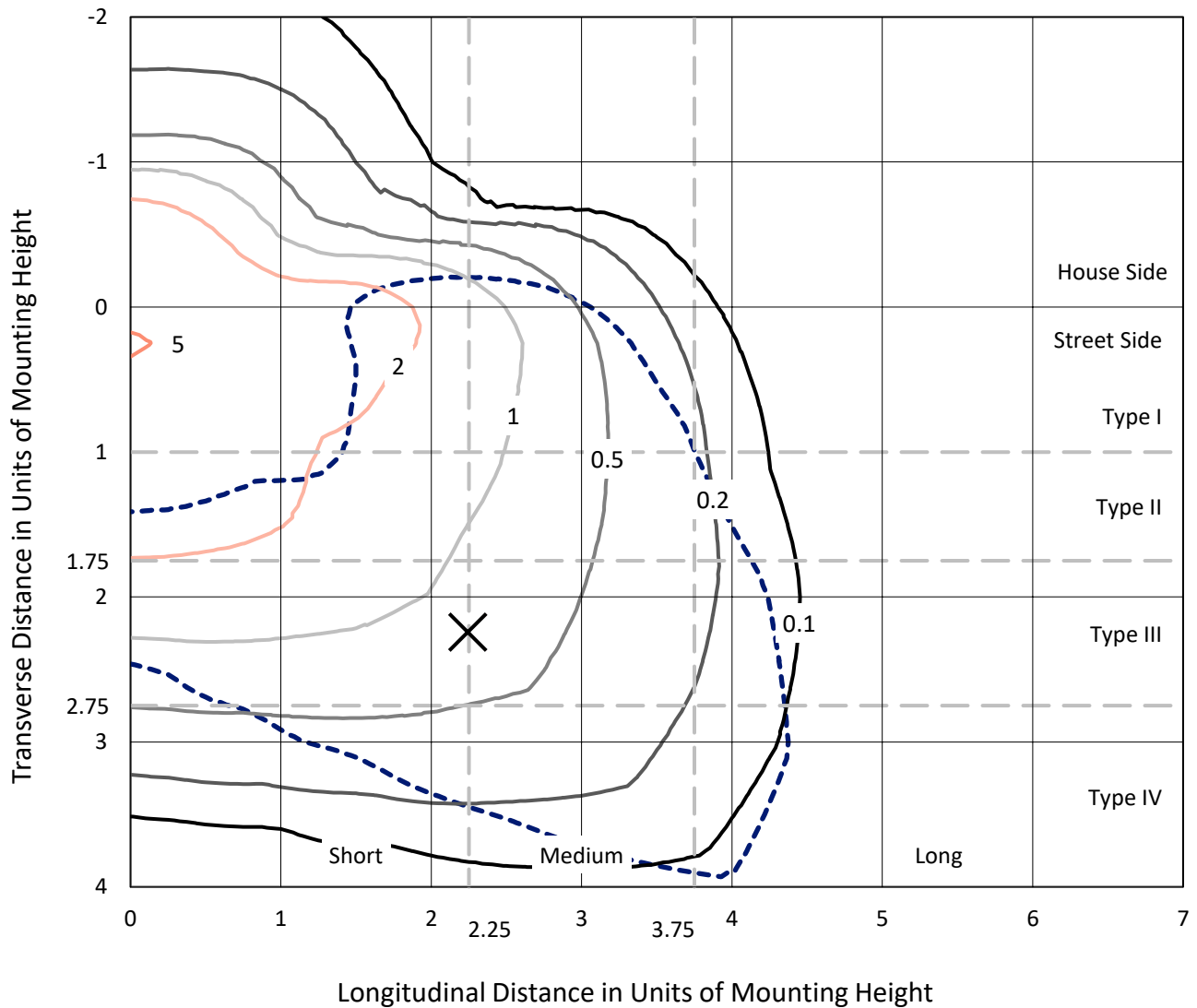
Lumens per Lamp: N/A  
Luminaire Lumens: 26049 lumens  
Efficiency: N/A  
Efficacy: 129.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P949995  
 CATALOG NUMBER: GALN-SB4C-827-U-T4W

### Iso-Footcandle Lines of Horizontal Illumination

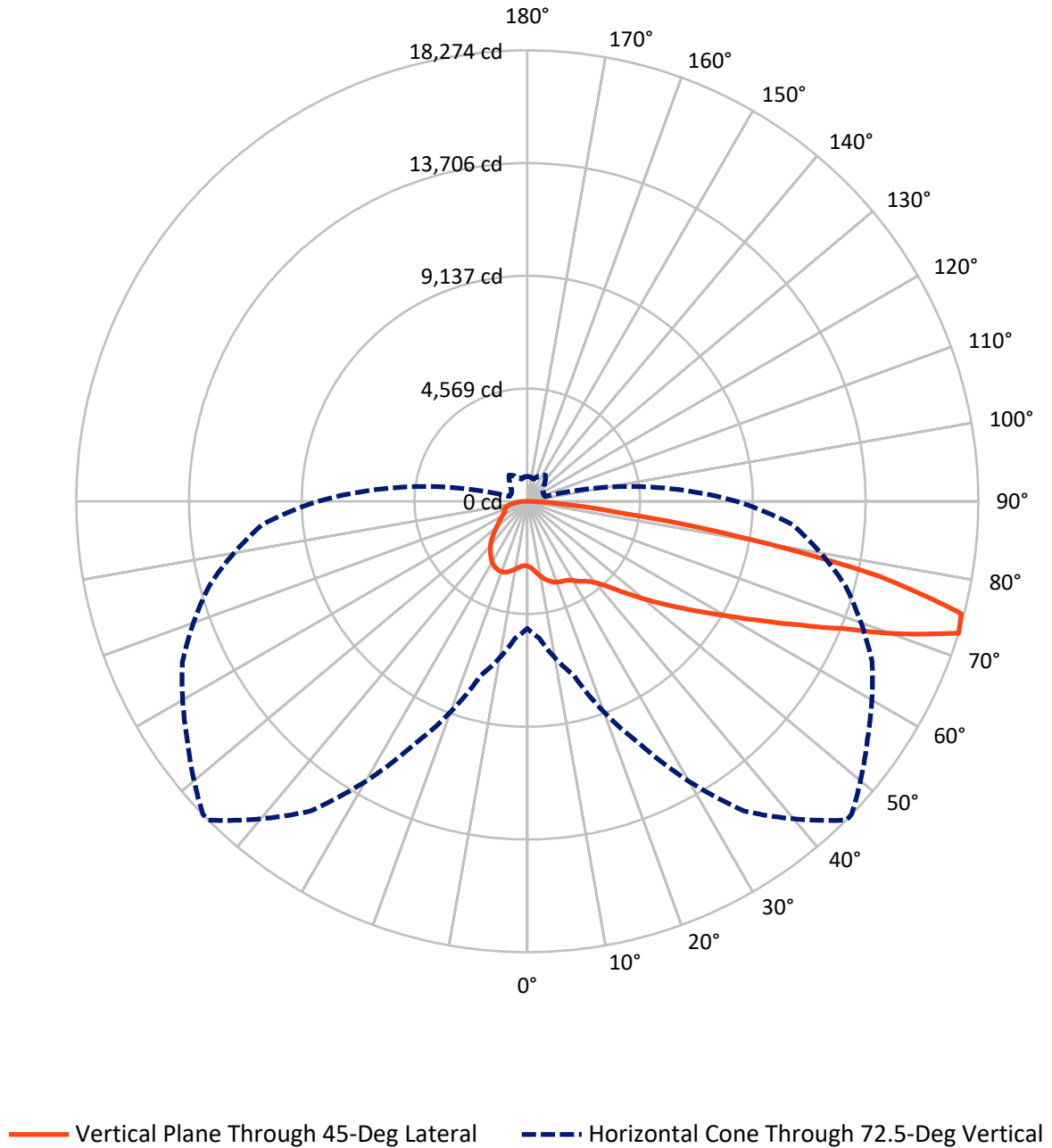
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type IV - Short - N/A

REPORT NUMBER: P949995  
CATALOG NUMBER: GALN-SB4C-827-U-T4W

### Luminous Intensity Polar Plot



REPORT NUMBER: P949995  
 CATALOG NUMBER: GALN-SB4C-827-U-T4W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5888.8	0.0	5888.8
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	20160.2	0.0	20160.2
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	26049.0	0.0	26049.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.5	1.0
10°-20°	891.8	3.4
20°-30°	1551.3	6.0
30°-40°	2223.8	8.5
40°-50°	3131.3	12.0
50°-60°	4796.2	18.4
60°-70°	6947.9	26.7
70°-80°	5548.4	21.3
80°-90°	691.0	2.7
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°	26049.0	100.0
0°-180°	26049.0	100.0



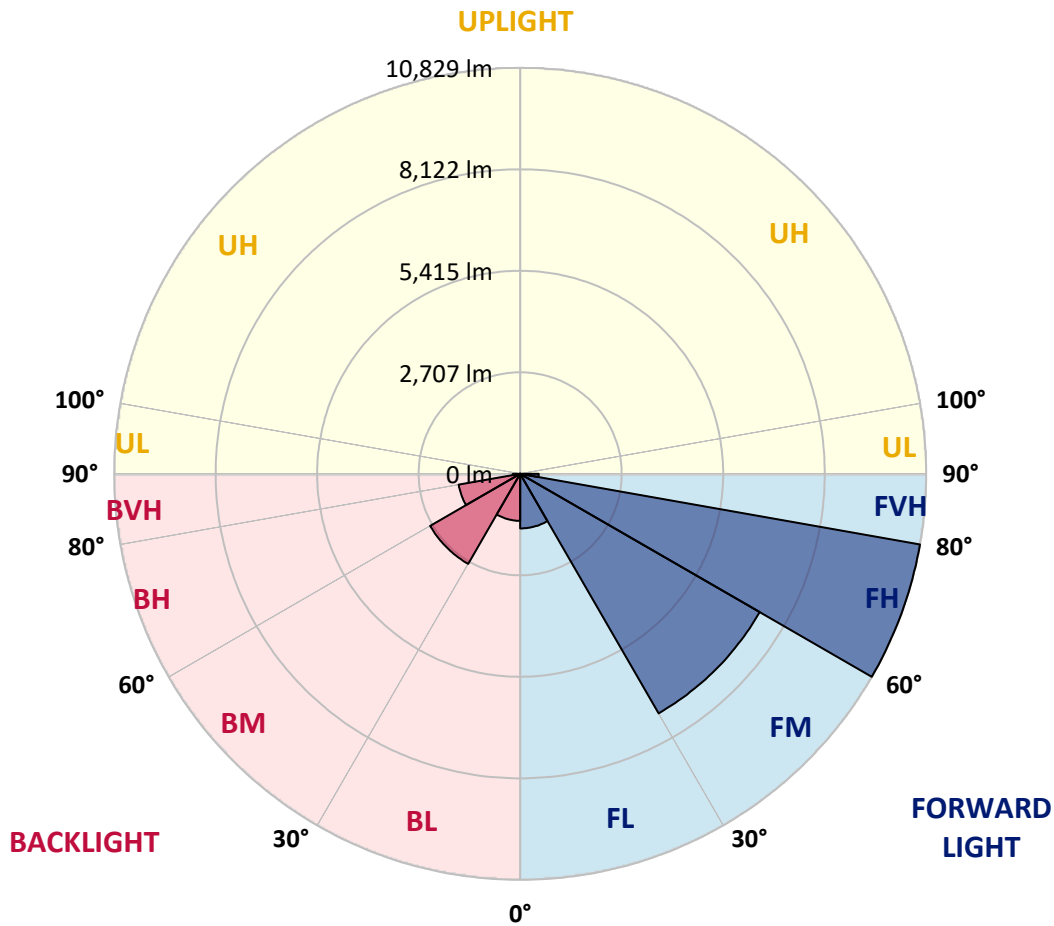
REPORT NUMBER: P949995  
 CATALOG NUMBER: GALN-SB4C-827-U-T4W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1456.7	5.6			
FM (30°-60°)	7378.4	28.3			
FH (60°-80°)	10829.3	41.6			G4/12000
FVH (80°-90°)	495.7	1.9			G3/500
BL (0°-30°)	1253.8	4.8	B3/2500		
BM (30°-60°)	2772.8	10.6	B3/5000		
BH (60°-80°)	1667.0	6.4	B3/2500		G3/2500
BVH (80°-90°)	195.3	0.7			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 Short



REPORT NUMBER: P949995  
 CATALOG NUMBER: GALN-SB4C-827-U-T4W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2627.8	2627.8	2627.8	2627.8	2627.8	2627.8	2627.8	2627.8	2627.8	2627.8
2.5°	2730.8	2748.6	2732.1	2717.0	2710.2	2692.3	2691.0	2680.0	2673.1	2653.9
5°	2921.5	2944.8	2917.4	2887.2	2859.7	2815.8	2810.3	2778.8	2743.1	2701.9
7.5°	3136.9	3157.5	3126.0	3080.7	3032.6	2959.9	2958.5	2900.9	2844.7	2774.7
10°	3324.9	3352.4	3309.8	3248.1	3187.7	3105.4	3095.8	3029.9	2958.5	2868.0
12.5°	3491.0	3510.2	3469.0	3393.5	3323.6	3241.2	3228.9	3156.1	3076.6	2973.6
15°	3622.7	3647.4	3592.5	3511.6	3437.5	3356.5	3345.5	3279.7	3200.1	3091.7
17.5°	3709.2	3729.7	3673.5	3582.9	3511.6	3444.3	3436.1	3381.2	3311.2	3201.4
20°	3742.1	3764.1	3705.0	3613.1	3547.2	3495.1	3491.0	3451.2	3403.2	3303.0
22.5°	3775.0	3795.6	3718.8	3622.7	3565.1	3532.1	3530.8	3504.7	3485.5	3403.2
25°	3908.1	3913.6	3810.7	3672.1	3589.8	3561.0	3559.6	3558.2	3566.4	3502.0
27.5°	4023.4	4022.0	3934.2	3803.8	3676.2	3615.8	3614.5	3628.2	3654.3	3600.8
30°	4192.2	4177.1	4072.8	3937.0	3820.3	3727.0	3718.8	3706.4	3727.0	3684.5
32.5°	4550.3	4502.3	4333.5	4092.0	3939.7	3868.3	3857.4	3780.5	3788.8	3762.7
35°	5063.6	5000.4	4775.4	4385.7	4087.9	3986.4	3980.9	3883.4	3867.0	3843.6
37.5°	5674.2	5596.0	5333.9	4811.1	4343.1	4123.6	4115.3	4027.5	3960.3	3935.6
40°	6287.6	6188.8	5972.0	5329.8	4719.1	4352.7	4326.7	4193.6	4116.7	4075.5
42.5°	6883.1	6800.8	6615.6	5911.6	5182.9	4687.6	4629.9	4402.1	4344.5	4306.1
45°	7410.1	7336.0	7200.1	6533.2	5726.4	5143.2	5086.9	4715.0	4697.2	4697.2
47.5°	7838.2	7821.8	7677.7	7167.2	6367.2	5661.9	5564.4	5150.0	5198.0	5272.1
50°	8313.0	8267.7	8114.0	7791.6	7120.5	6256.0	6176.4	5683.8	5863.6	6066.7
52.5°	8749.4	8774.1	8602.6	8442.0	7971.3	6918.8	6778.9	6313.7	6702.0	7038.2
55°	9198.1	9199.5	9151.5	9129.5	8863.3	7651.6	7497.9	7071.1	7688.7	8105.8
57.5°	9619.4	9622.1	9693.5	9887.0	9898.0	8496.9	8322.6	8001.5	8785.1	9210.5
60°	9995.4	10014.6	10209.5	10662.3	10807.8	9465.7	9301.0	9100.7	9918.5	10346.7
62.5°	10121.6	10191.6	10625.2	11268.8	11706.6	10654.1	10492.1	10372.8	11109.6	11507.6
65°	9907.6	10068.1	10906.6	11769.7	12631.5	12066.1	11905.5	11775.2	12347.4	12722.0
67.5°	9382.0	9589.2	10890.1	12295.3	13753.9	13764.9	13615.4	13309.3	13674.4	13818.4
70°	7997.4	8307.5	9930.9	12491.5	15042.5	16088.1	15944.0	15156.4	14998.6	14301.5
72.5°	5152.8	5569.9	7312.7	10876.4	15329.3	18274.1	18265.9	16823.6	15417.1	13362.9
75°	1880.0	2135.2	3397.7	6826.9	12867.5	18163.0	18216.5	16538.2	14073.7	10322.0
77.5°	684.7	749.2	1108.8	2623.7	7913.7	14573.2	14684.3	13221.5	10017.3	5180.2
80°	359.5	395.2	568.1	1018.2	3390.8	8654.7	8829.0	7857.4	4708.2	1560.2
82.5°	199.0	215.4	318.4	553.0	1527.3	3700.9	3805.2	3104.0	1656.3	661.4
85°	107.0	113.9	149.6	301.9	746.5	1283.0	1311.9	927.6	660.0	388.3
87.5°	31.6	38.4	49.4	96.1	292.3	288.2	295.0	183.9	260.7	196.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949995  
 CATALOG NUMBER: GALN-SB4C-827-U-T4W

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2627.8	0°	2627.8	2627.8	2627.8	2627.8	2627.8	2627.8	2627.8	2627.8	2627.8	2627.8
2648.4	2.5°	2640.2	2636.1	2621.0	2614.1	2605.9	2604.5	2611.4	2612.7	2614.1	2615.5
2678.6	5°	2664.9	2651.2	2637.4	2629.2	2632.0	2633.3	2647.0	2656.7	2663.5	2669.0
2734.9	7.5°	2712.9	2701.9	2678.6	2677.2	2681.4	2693.7	2711.5	2733.5	2745.8	2755.5
2807.6	10°	2784.3	2763.7	2736.2	2740.4	2748.6	2766.4	2803.5	2821.3	2841.9	2859.7
2896.8	12.5°	2857.0	2839.2	2807.6	2810.3	2824.1	2855.6	2891.3	2913.3	2927.0	2940.7
2992.9	15°	2951.7	2920.1	2885.8	2885.8	2910.5	2944.8	2961.3	2979.1	2987.4	3002.5
3095.8	17.5°	3049.1	3007.9	2962.7	2959.9	2990.1	3006.6	3016.2	3018.9	3021.7	3038.1
3195.9	20°	3146.5	3101.3	3036.8	3031.3	3038.1	3035.4	3034.0	3031.3	3035.4	3056.0
3298.9	22.5°	3242.6	3190.5	3101.3	3076.6	3057.3	3031.3	3029.9	3028.5	3031.3	3051.9
3410.0	25°	3355.1	3292.0	3172.6	3098.5	3034.0	2998.3	3002.5	3003.8	3006.6	3023.0
3525.3	27.5°	3477.3	3407.3	3238.5	3091.7	2975.0	2950.3	2943.5	2947.6	2957.2	2983.2
3640.5	30°	3599.4	3517.0	3298.9	3064.2	2900.9	2866.6	2844.7	2854.3	2884.4	2910.5
3740.7	32.5°	3710.5	3628.2	3346.9	3003.8	2806.2	2752.7	2723.9	2736.2	2766.4	2776.0
3851.9	35°	3840.9	3747.6	3367.5	2907.8	2703.3	2621.0	2582.6	2564.7	2579.8	2570.2
3982.2	37.5°	3986.4	3888.9	3364.7	2781.5	2582.6	2487.9	2434.4	2367.1	2335.6	2302.6
4174.4	40°	4201.8	4061.8	3331.8	2629.2	2433.0	2346.5	2250.5	2136.6	2065.2	2000.7
4484.5	42.5°	4495.5	4302.0	3271.4	2461.8	2264.2	2183.2	2052.9	1919.8	1807.2	1700.2
4955.2	45°	4933.2	4616.2	3195.9	2283.4	2081.7	2002.1	1860.8	1711.2	1583.6	1446.3
5623.4	47.5°	5564.4	5038.9	3124.6	2080.3	1889.6	1816.8	1689.2	1550.6	1399.7	1266.6
6589.5	50°	6431.7	5645.4	3058.7	1882.7	1700.2	1645.3	1543.8	1402.4	1250.1	1143.1
7721.6	52.5°	7535.0	6470.1	3031.3	1692.0	1523.2	1502.6	1421.6	1289.9	1145.8	1055.3
9041.7	55°	8801.5	7456.7	3031.3	1509.5	1368.1	1375.0	1318.7	1196.6	1071.7	990.8
10402.9	57.5°	10094.2	8455.7	2976.4	1340.7	1236.4	1265.2	1229.5	1122.5	1010.0	926.3
11834.2	60°	11285.3	9292.8	2754.1	1187.0	1119.7	1165.0	1141.7	1049.8	912.5	842.6
13030.8	62.5°	12200.6	9764.9	2325.9	1064.9	1023.7	1075.8	1063.5	953.7	894.7	865.9
14013.3	65°	12658.9	9688.0	1778.4	956.5	942.7	1023.7	997.6	993.5	946.8	913.9
14333.0	67.5°	12377.6	9026.6	1289.9	876.9	896.1	975.7	1075.8	1092.3	1005.9	941.4
13432.8	70°	11144.0	7830.0	960.6	801.4	837.1	977.0	1226.8	1143.1	986.6	911.2
10773.4	72.5°	8477.7	5838.9	745.1	721.8	760.2	983.9	1294.0	1119.7	931.8	1007.2
6711.6	75°	4848.1	3205.5	598.3	624.4	664.2	919.4	1259.7	1059.4	889.2	924.9
2659.4	77.5°	1848.4	1232.3	494.0	528.3	533.8	802.8	1204.8	1055.3	846.7	826.1
797.3	80°	640.8	481.7	408.9	419.9	413.0	713.6	1155.4	918.0	693.0	620.3
329.3	82.5°	262.1	240.1	323.8	310.1	293.7	554.4	933.1	750.6	566.7	500.9
159.2	85°	113.9	152.3	214.1	188.0	170.2	384.2	747.9	635.3	478.9	413.0
52.1	87.5°	23.3	57.6	90.6	85.1	87.8	256.6	531.1	451.5	338.9	253.9
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>
2627.8
2621.0
2671.7
2758.2
2855.6
2946.2
3007.9
3043.6
3064.2
3065.6
3045.0
3009.3
2939.3
2810.3
2600.4
2323.2
2004.8
1690.6
1429.9
1251.5
1136.2
1048.4
982.5
912.5
831.6
856.3
902.9
930.4
898.8
999.0
924.9
753.4
599.7
495.4
411.7
199.0
0.0

F REPORT)