

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: P941677

Luminaire Tested: **GALN-SB5B-827-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941677
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-827-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24751 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

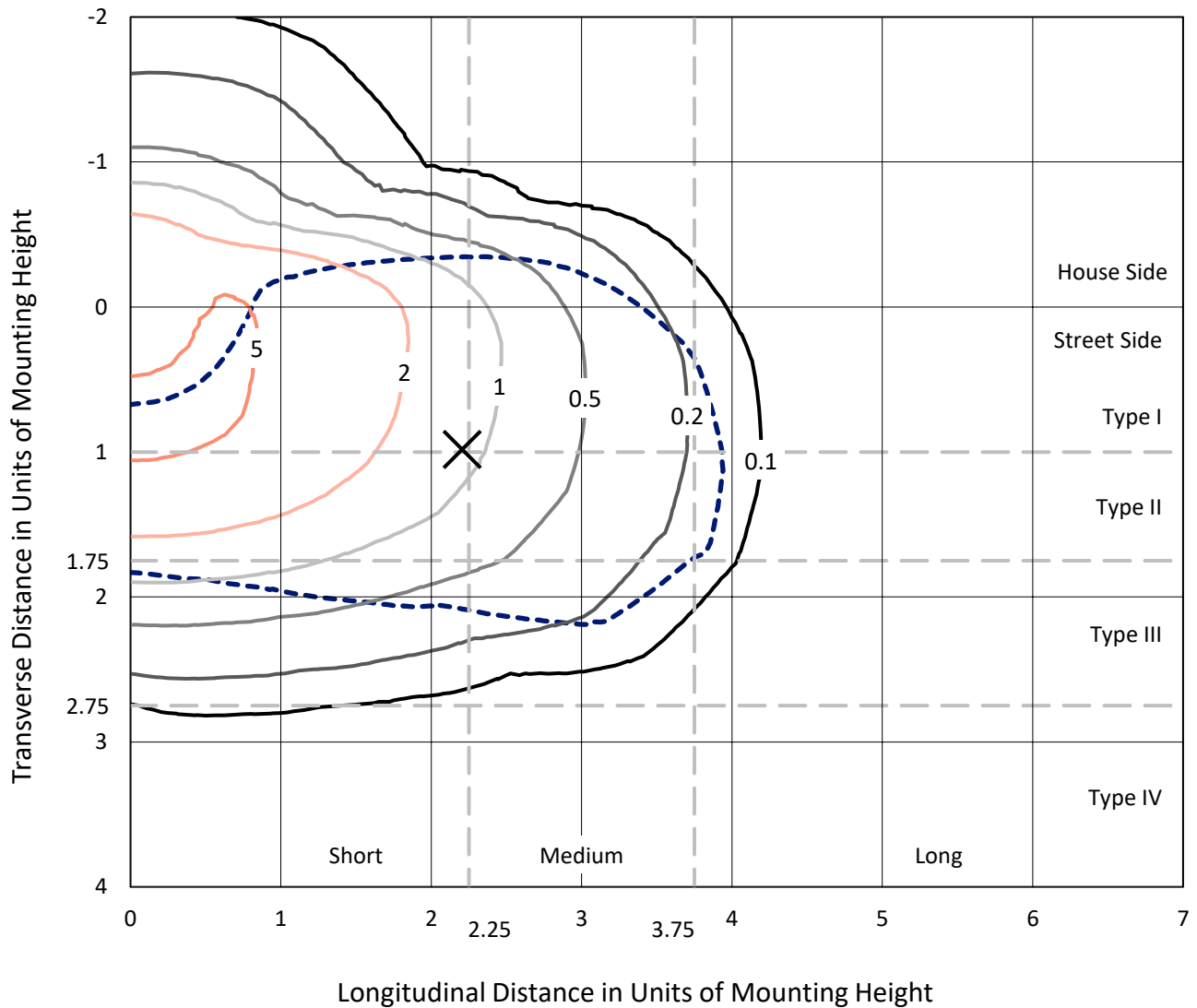
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941677
 CATALOG NUMBER: GALN-SB5B-827-U-T3

Iso-Footcandle Lines of Horizontal Illumination

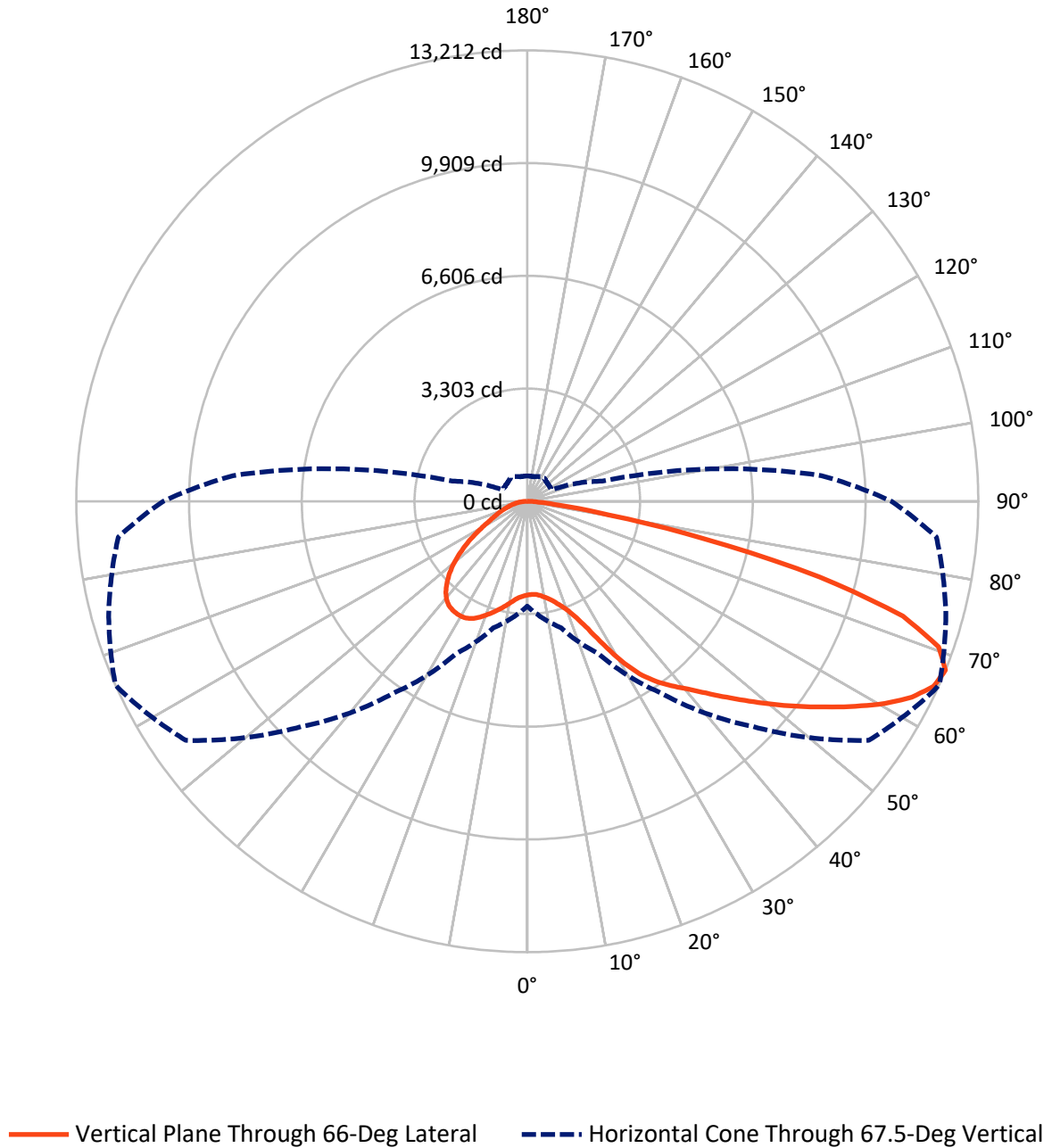
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - N/A

REPORT NUMBER: P941677
CATALOG NUMBER: GALN-SB5B-827-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P941677
 CATALOG NUMBER: GALN-SB5B-827-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6154.3	0.0	6154.3
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	18596.7	0.0	18596.7
	% Fixture	75.1	0.0	75.1
Total	Lumens	24751.0	0.0	24751.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.2	1.1
10°-20°	899.2	3.6
20°-30°	1733.2	7.0
30°-40°	3039.0	12.3
40°-50°	4518.0	18.3
50°-60°	5727.0	23.1
60°-70°	5603.7	22.6
70°-80°	2673.0	10.8
80°-90°	285.7	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°	24751.0	100.0
0°-180°	24751.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941677

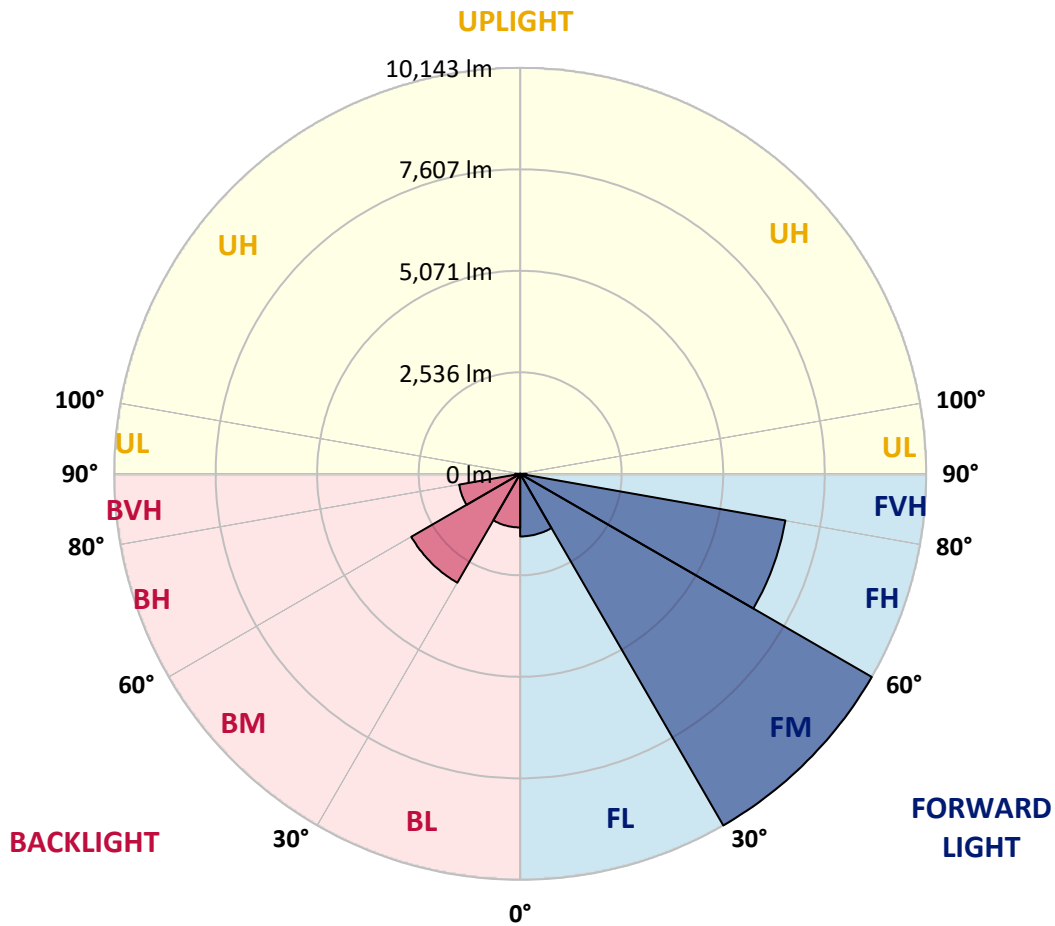
CATALOG NUMBER: GALN-SB5B-827-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1564.0	6.3			
FM (30°-60°)	10142.8	41.0			
FH (60°-80°)	6728.0	27.2			G3/7500
FVH (80°-90°)	162.0	0.7			G2/225
BL (0°-30°)	1340.6	5.4	B3/2500		
BM (30°-60°)	3141.2	12.7	B3/5000		
BH (60°-80°)	1548.7	6.3	B3/2500		G3/2500
BVH (80°-90°)	123.7	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: P941677

CATALOG NUMBER: GALN-SB5B-827-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2
2.5°	2716.6	2732.2	2728.3	2721.8	2720.5	2723.1	2727.0	2730.9	2729.6	2736.1
5°	2708.8	2724.4	2723.1	2723.1	2728.3	2738.7	2745.2	2751.7	2745.2	2753.0
7.5°	2714.0	2725.7	2730.9	2736.1	2749.1	2768.6	2784.2	2798.5	2790.7	2799.8
10°	2780.3	2789.4	2794.6	2794.6	2803.7	2825.8	2841.4	2867.5	2861.0	2875.3
12.5°	2901.3	2910.4	2910.4	2905.2	2911.7	2926.0	2931.2	2959.8	2948.1	2971.5
15°	3049.5	3067.7	3053.4	3044.3	3046.9	3061.2	3059.9	3082.0	3070.3	3089.8
17.5°	3213.4	3236.8	3213.4	3212.1	3206.9	3222.5	3223.8	3243.3	3222.5	3236.8
20°	3407.1	3439.6	3420.1	3426.6	3414.9	3421.4	3427.9	3456.5	3424.0	3434.4
22.5°	3680.2	3719.2	3698.4	3723.1	3715.3	3710.1	3708.8	3759.6	3708.8	3712.7
25°	4078.2	4125.0	4088.6	4122.4	4122.4	4139.3	4158.8	4223.8	4139.3	4114.6
27.5°	4666.0	4712.8	4641.2	4662.1	4655.5	4697.2	4676.4	4837.6	4746.6	4706.3
30°	5373.4	5456.6	5321.4	5316.2	5309.7	5376.0	5405.9	5512.5	5420.2	5379.9
32.5°	6138.0	6225.2	6063.9	6017.1	5992.4	6032.7	6008.0	6093.8	6030.1	5967.7
35°	6946.9	7032.7	6879.3	6788.3	6689.4	6604.9	6516.5	6538.6	6478.8	6383.8
37.5°	7711.6	7868.9	7706.4	7608.8	7426.8	7261.6	7014.5	6911.8	6855.9	6768.8
40°	8490.5	8580.3	8456.7	8373.5	8175.8	7917.0	7521.7	7304.5	7229.1	7144.6
42.5°	9064.0	9149.8	9083.5	9026.3	8871.6	8571.2	8060.1	7788.3	7679.1	7584.1
45°	9519.2	9582.9	9541.3	9562.1	9495.8	9204.5	8618.0	8307.2	8194.0	8078.3
47.5°	9702.5	9770.1	9836.5	9960.0	10073.2	9858.6	9217.5	8868.9	8749.3	8631.0
50°	9681.7	9750.6	9943.1	10205.8	10556.9	10485.4	9849.5	9467.1	9356.6	9221.4
52.5°	9515.3	9593.3	9840.4	10277.3	10836.5	10954.8	10493.2	10084.9	9980.8	9819.6
55°	9078.3	9125.1	9495.8	10114.8	10902.8	11282.6	11123.9	10742.9	10638.8	10413.9
57.5°	8268.1	8335.8	8875.5	9676.5	10736.4	11504.9	11677.9	11434.7	11334.6	11010.8
60°	7210.9	7318.8	7936.5	8940.5	10312.4	11503.6	12181.2	12114.8	12031.6	11598.6
62.5°	6014.5	6139.3	6733.6	7900.1	9571.2	11177.2	12495.9	12684.4	12641.5	12140.8
65°	4619.1	4705.0	5296.7	6554.2	8417.7	10476.3	12532.3	13073.2	13081.1	12553.1
67.5°	3075.5	3322.6	3836.3	4918.2	6872.8	9330.6	12212.4	13137.0	13212.4	12694.8
70°	1500.7	1825.8	2329.1	3196.5	4918.2	7573.7	11376.2	12614.2	12782.0	12281.3
72.5°	622.9	728.2	1002.6	1577.4	2823.2	5110.7	9696.0	11196.7	11507.5	10882.0
75°	420.0	455.2	573.5	808.9	1286.1	2520.2	6992.4	8348.8	8849.4	8218.7
77.5°	323.8	345.9	417.4	565.7	764.7	953.2	3742.6	5031.4	5290.2	4897.4
80°	254.9	271.8	312.1	412.2	542.3	509.8	1275.7	2279.7	2429.2	2037.8
82.5°	221.1	227.6	223.7	279.6	360.2	297.8	418.7	841.4	928.5	673.6
85°	160.0	178.2	186.0	173.0	191.2	150.9	171.7	297.8	327.7	292.6
87.5°	65.0	96.2	118.3	111.8	70.2	42.9	53.3	87.1	100.1	109.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941677
 CATALOG NUMBER: GALN-SB5B-827-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2745.2	0°	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2	2745.2
2746.5	2.5°	2747.8	2756.9	2763.4	2771.2	2776.4	2784.2	2799.8	2808.9	2810.2	2816.7
2767.3	5°	2772.5	2785.5	2799.8	2820.6	2844.0	2863.6	2893.5	2914.3	2922.1	2928.6
2818.0	7.5°	2825.8	2844.0	2870.1	2906.5	2940.3	2966.3	3002.7	3027.4	3052.1	3061.2
2898.7	10°	2905.2	2931.2	2968.9	3018.3	3054.7	3088.5	3126.2	3147.0	3171.8	3182.2
2994.9	12.5°	3004.0	3031.3	3080.7	3149.6	3183.5	3206.9	3219.9	3214.7	3219.9	3229.0
3110.6	15°	3117.1	3147.0	3203.0	3277.1	3300.5	3279.7	3251.1	3225.1	3221.2	3223.8
3251.1	17.5°	3251.1	3273.2	3338.2	3400.6	3383.7	3297.9	3235.5	3193.9	3173.1	3166.6
3430.5	20°	3438.3	3438.3	3491.7	3530.7	3417.5	3271.9	3174.4	3106.7	3063.8	3045.6
3675.0	22.5°	3665.9	3645.1	3678.9	3651.6	3411.0	3199.1	3063.8	2946.8	2881.8	2855.7
4017.0	25°	3954.6	3929.9	3920.8	3751.7	3364.2	3083.3	2863.6	2721.8	2664.6	2650.3
4509.9	27.5°	4390.3	4327.8	4209.5	3806.4	3278.4	2901.3	2629.5	2498.1	2465.6	2466.9
5143.2	30°	4970.3	4845.4	4555.4	3815.5	3137.9	2643.8	2390.2	2296.6	2281.0	2287.5
5675.1	32.5°	5507.3	5389.0	4909.1	3773.9	2922.1	2391.5	2175.6	2113.2	2089.8	2097.6
6080.8	35°	5928.7	5896.2	5236.8	3715.3	2656.8	2154.8	1983.2	1929.8	1884.3	1873.9
6463.1	37.5°	6326.6	6313.6	5482.6	3633.4	2394.1	1987.1	1828.4	1758.2	1691.9	1655.5
6885.8	40°	6763.5	6750.5	5643.9	3507.3	2161.3	1841.4	1689.3	1596.9	1515.0	1448.7
7364.3	42.5°	7255.1	7178.4	5720.6	3326.5	1963.7	1717.9	1576.1	1451.3	1343.3	1282.2
7905.3	45°	7792.2	7619.2	5719.3	3096.3	1797.2	1604.7	1455.2	1278.3	1178.2	1121.0
8460.6	47.5°	8361.8	8040.6	5649.1	2841.4	1635.9	1479.9	1267.9	1132.7	1066.4	1031.2
9064.0	50°	8949.6	8434.6	5529.4	2548.8	1470.8	1338.1	1150.9	1058.6	1007.8	975.3
9662.2	52.5°	9502.3	8792.2	5385.1	2217.2	1303.0	1200.3	1098.9	1027.3	974.0	937.6
10242.2	55°	10015.9	9100.4	5180.9	1877.8	1166.5	1108.0	1074.2	1014.3	953.2	910.3
10831.3	57.5°	10472.4	9300.7	4828.5	1559.2	1069.0	1044.2	1048.1	992.2	922.0	885.6
11411.3	60°	10852.1	9447.6	4307.0	1264.0	989.6	981.8	1007.8	950.6	868.7	827.1
11901.6	62.5°	11079.7	9445.0	3667.2	1035.1	922.0	924.6	954.5	898.6	815.4	776.4
12157.7	65°	11060.2	9213.6	2965.0	885.6	857.0	859.6	898.6	841.4	771.2	747.7
12029.0	67.5°	10668.7	8649.2	2274.5	788.1	785.5	797.2	842.7	802.4	743.8	741.2
11261.7	70°	9608.9	7477.5	1638.5	710.0	711.3	728.2	788.1	777.7	729.5	734.7
9468.4	72.5°	7705.1	5701.1	1100.2	628.1	629.4	656.7	736.0	758.2	715.2	784.2
6718.0	75°	5131.5	3555.4	707.4	541.0	542.3	577.4	690.5	720.4	676.2	781.6
3495.6	77.5°	2465.6	1598.2	512.4	455.2	455.2	487.7	596.9	645.0	576.1	607.3
1123.6	80°	851.8	600.8	403.1	366.7	358.9	381.0	503.3	559.2	496.8	457.8
366.7	82.5°	335.5	312.1	323.8	284.8	258.8	273.1	391.4	461.7	365.4	330.3
206.8	85°	192.5	202.9	228.9	188.6	149.5	167.8	287.4	331.6	275.7	243.2
67.6	87.5°	52.0	71.5	105.3	97.5	67.6	71.5	136.5	183.4	158.7	122.2
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>
2745.2
2815.4
2927.3
3062.5
3187.4
3231.6
3232.9
3175.7
3041.7
2851.8
2652.9
2470.8
2309.6
2108.0
1881.7
1656.8
1455.2
1286.1
1118.4
1023.4
963.6
922.0
893.4
862.2
808.9
764.7
746.4
745.1
733.4
794.6
788.1
556.6
429.1
329.0
248.4
126.1
0.0

F REPORT)