

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: P955344

Luminaire Tested: **GALN-SB8B-827-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955344  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8B-827-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

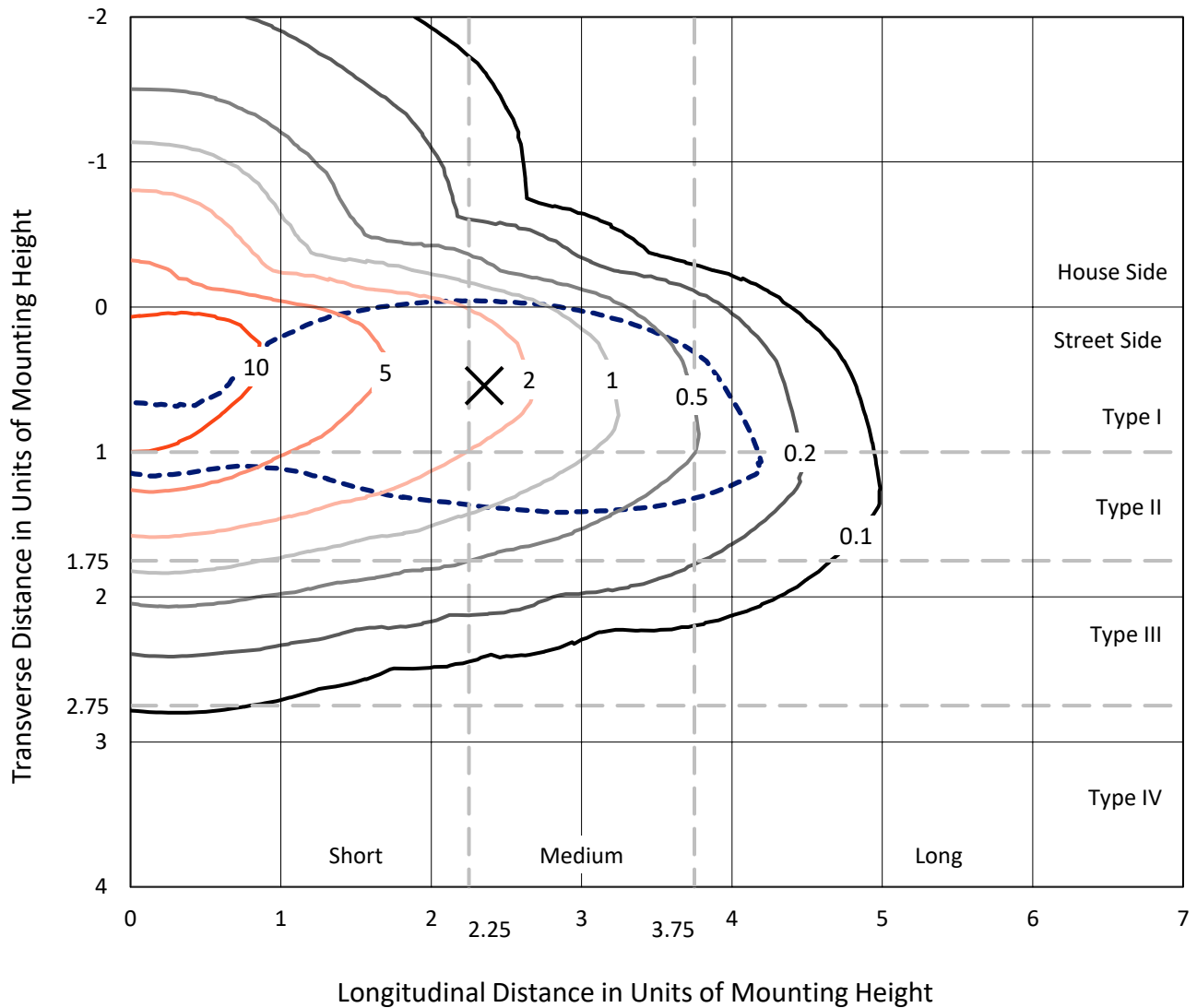
Lumens per Lamp: N/A  
Luminaire Lumens: 40329 lumens  
Efficiency: N/A  
Efficacy: 137.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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: P955344  
 CATALOG NUMBER: GALN-SB8B-827-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

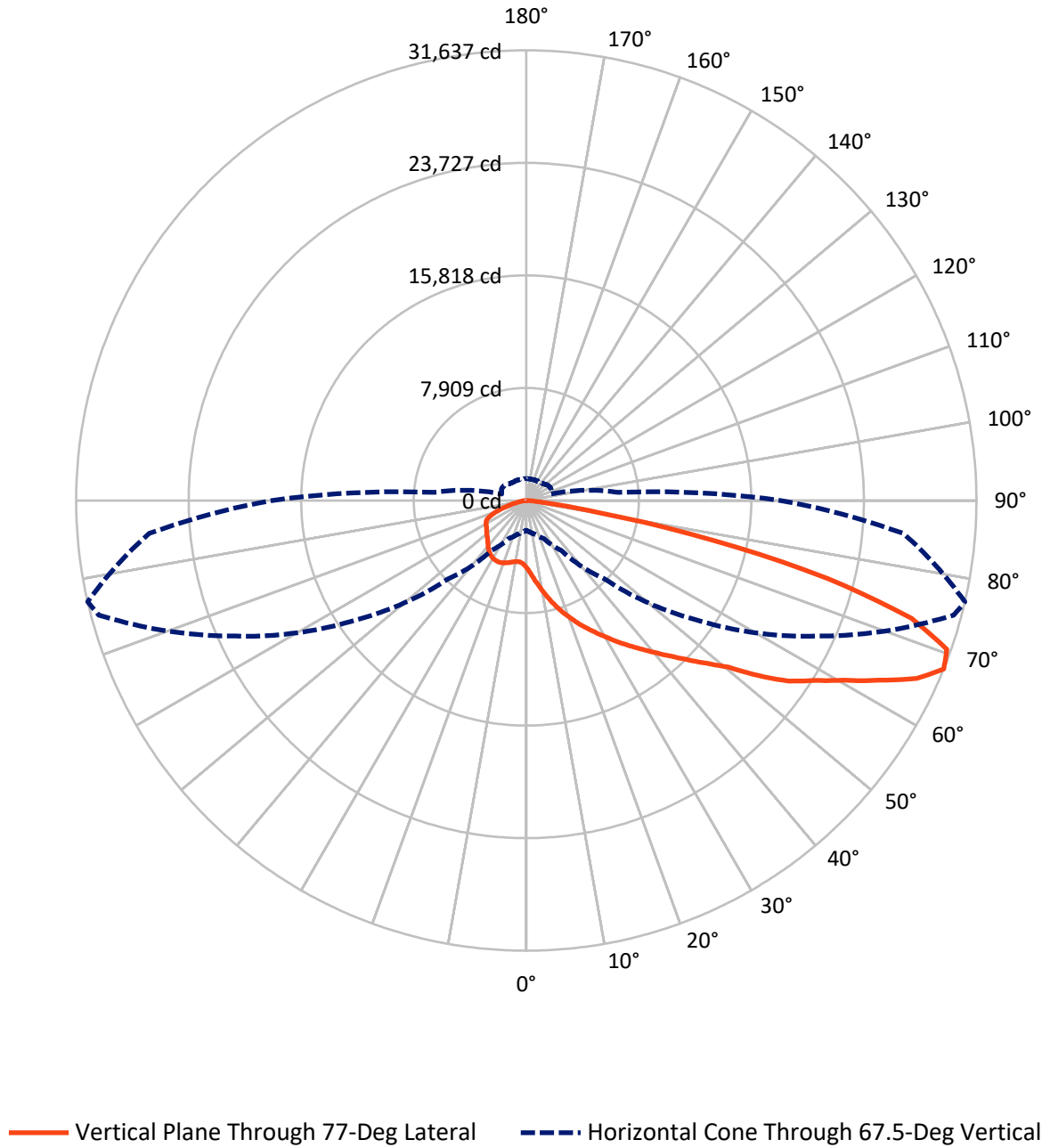
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc  
 Type II - Medium - N/A

REPORT NUMBER: P955344  
CATALOG NUMBER: GALN-SB8B-827-U-T2R

### Luminous Intensity Polar Plot



REPORT NUMBER: P955344

CATALOG NUMBER: GALN-SB8B-827-U-T2R

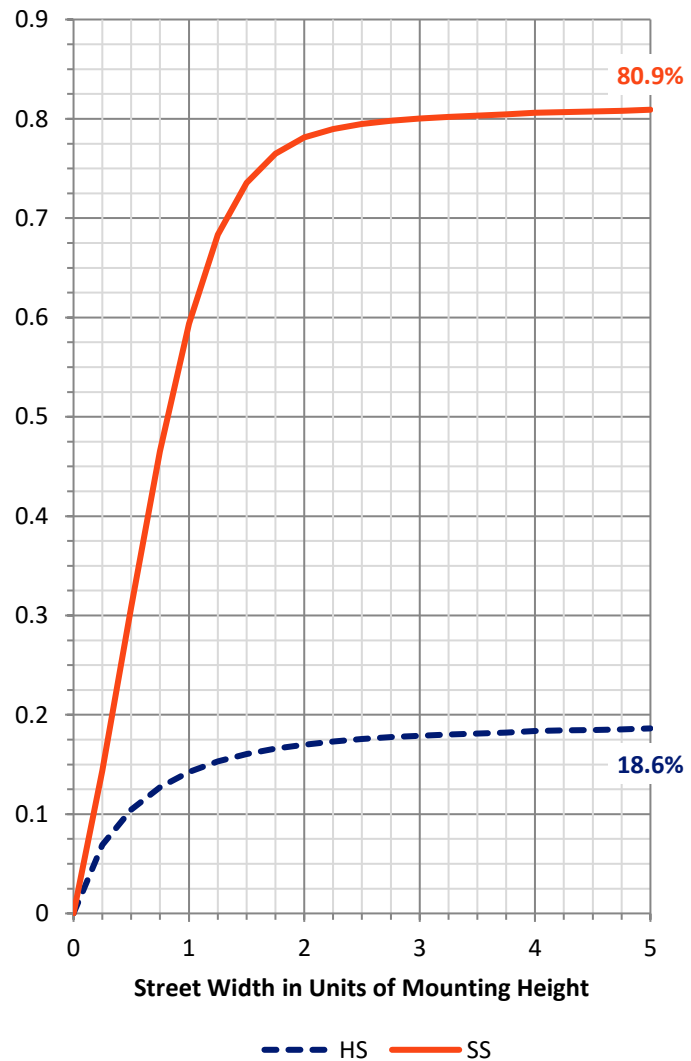
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7628.6	0.0	7628.6
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	32700.4	0.0	32700.4
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	40329.0	0.0	40329.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	507.2	1.3
10°-20°	1822.1	4.5
20°-30°	3440.4	8.5
30°-40°	5542.4	13.7
40°-50°	7580.9	18.8
50°-60°	8551.4	21.2
60°-70°	7981.6	19.8
70°-80°	4375.3	10.8
80°-90°	527.8	1.3
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°	40329.0	100.0
0°-180°	40329.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P955344

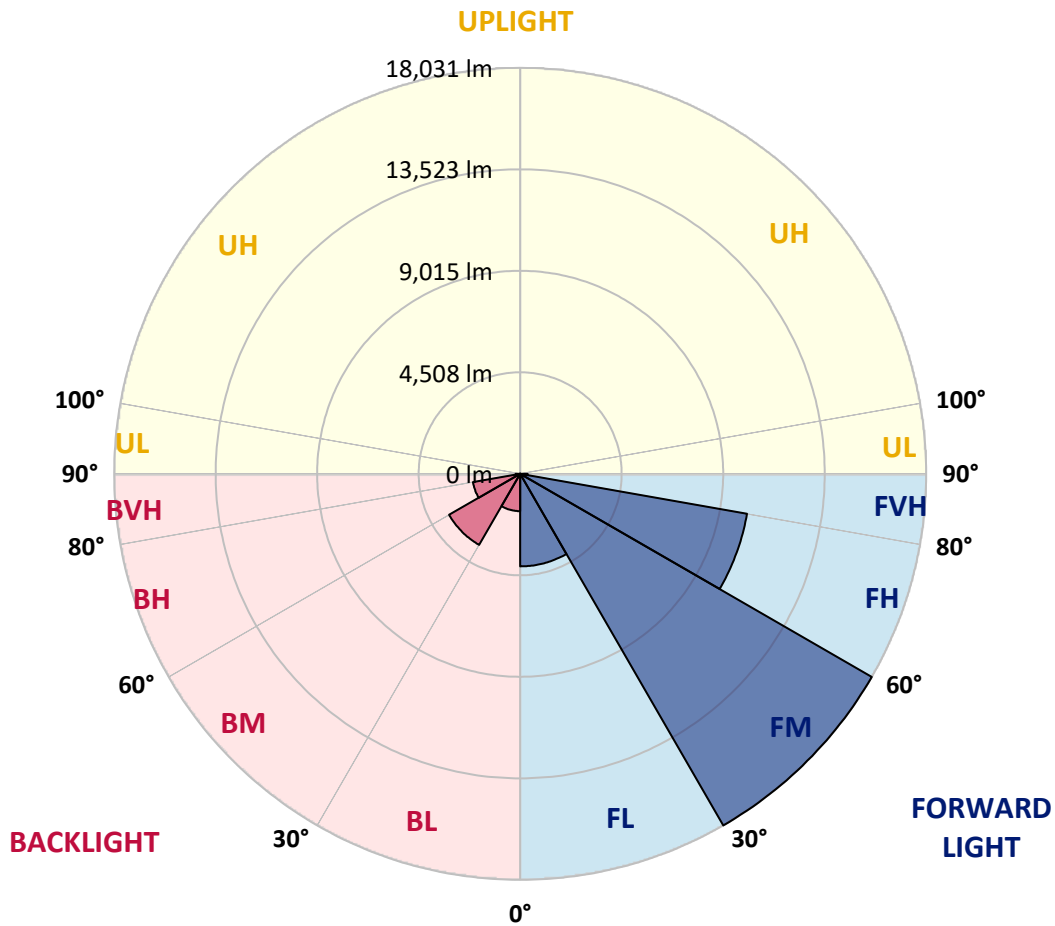
CATALOG NUMBER: GALN-SB8B-827-U-T2R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4111.0	10.2			
FM (30°-60°)	18030.7	44.7			
FH (60°-80°)	10228.6	25.4			G4/12000
FVH (80°-90°)	330.0	0.8			G3/500
BL (0°-30°)	1658.6	4.1	B3/2500		
BM (30°-60°)	3644.0	9.0	B3/5000		
BH (60°-80°)	2128.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	197.7	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-G4**

Type II Medium



REPORT NUMBER: P955344

CATALOG NUMBER: GALN-SB8B-827-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4731.8	4731.8	4731.8	4731.8	4731.8	4731.8	4731.8	4731.8	4731.8	4731.8
2.5°	5924.7	5966.3	5914.3	5914.3	5739.4	5647.8	5473.0	5339.7	5100.3	5058.7
5°	7003.0	7055.1	6982.2	6951.0	6744.9	6555.5	6261.9	5972.6	5545.8	5502.1
7.5°	7837.8	7904.4	7839.9	7806.6	7623.4	7411.1	7067.6	6663.7	6062.1	5976.7
10°	8518.6	8529.0	8508.2	8520.7	8377.0	8202.1	7850.3	7379.8	6628.3	6511.8
12.5°	8903.7	8951.6	8993.2	9068.2	9043.2	8934.9	8618.5	8056.4	7227.9	7078.0
15°	9084.8	9168.1	9261.8	9434.5	9574.0	9601.1	9359.6	8783.0	7837.8	7656.7
17.5°	9149.3	9228.5	9376.3	9626.1	9925.8	10127.8	10019.5	9488.7	8441.5	8233.4
20°	9476.2	9499.1	9588.6	9825.9	10150.7	10485.8	10567.0	10167.3	9039.0	8803.8
22.5°	10175.7	10129.9	10154.8	10263.1	10496.2	10821.0	11006.3	10766.9	9653.1	9382.5
25°	11331.0	11197.8	11064.6	10939.7	11058.3	11241.5	11451.8	11366.4	10296.4	9952.9
27.5°	12790.3	12628.0	12334.4	11924.3	11780.7	11845.2	11938.9	11922.2	10891.8	10544.1
30°	14226.8	14037.3	13687.6	13094.3	12715.4	12544.7	12473.9	12426.0	11539.2	11168.7
32.5°	15373.8	15223.9	14880.4	14216.4	13666.8	13375.3	13140.1	12969.4	12215.8	11845.2
35°	16377.2	16237.7	15844.3	15119.8	14522.4	14212.2	13904.1	13539.8	12919.4	12544.7
37.5°	17293.2	17153.7	16614.5	15860.9	15259.3	15044.9	14770.1	14151.8	13625.1	13271.2
40°	17871.9	17840.7	17336.9	16483.4	15858.9	15752.7	15661.1	14861.7	14407.9	14079.0
42.5°	18019.7	18088.4	17688.7	16987.2	16391.8	16306.4	16520.9	15665.3	15286.4	14972.0
45°	17663.7	17861.5	17599.2	17122.5	16770.7	16724.9	17282.8	16543.8	16258.6	15971.3
47.5°	16762.3	17097.5	16989.3	16922.6	16872.7	17070.4	17953.1	17476.4	17359.8	17110.0
50°	14942.9	15577.8	15767.3	16187.8	16670.7	17339.0	18563.1	18494.4	18646.3	18394.4
52.5°	11797.3	12671.7	13770.9	14824.2	16050.4	17249.5	19233.4	19955.8	20597.0	20459.6
55°	9738.5	10131.9	10977.1	12909.0	14847.1	16872.7	19535.3	21136.1	22533.0	22410.2
57.5°	8156.3	8508.2	9028.6	10642.0	13027.7	16017.1	19722.6	21856.4	23859.1	23846.6
60°	6459.7	6832.3	7365.3	8508.2	10902.2	14539.0	19681.0	22676.6	25551.5	25655.6
62.5°	4544.5	4954.6	5545.8	6611.7	8730.9	12623.8	18831.6	23269.9	27543.8	27826.9
65°	2987.3	3258.0	3703.5	4623.6	6505.5	10161.1	17209.9	23347.0	29675.5	30154.3
67.5°	2094.3	2198.3	2460.6	2960.3	4288.4	7792.0	14626.5	22549.6	31097.4	31636.5
70°	1634.2	1686.2	1819.5	2019.3	2693.8	5239.8	11208.2	20476.2	30793.4	31355.5
72.5°	1411.4	1461.4	1511.4	1536.3	1807.0	3235.1	7592.2	17120.4	27931.0	28312.0
75°	1280.3	1292.8	1334.4	1326.1	1378.1	2098.4	4382.1	12473.9	22037.5	21906.4
77.5°	1076.3	1092.9	1161.6	1151.2	1224.1	1434.3	2275.4	8050.2	14287.1	13396.1
80°	911.8	920.1	995.1	982.6	1063.8	1038.8	1161.6	4103.2	6060.0	5133.6
82.5°	316.4	391.4	759.8	782.7	811.9	628.7	670.3	1673.7	1850.7	1417.7
85°	154.1	164.5	387.2	549.6	547.5	316.4	326.8	597.5	582.9	458.0
87.5°	25.0	31.2	45.8	214.4	170.7	83.3	112.4	116.6	120.7	104.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955344  
 CATALOG NUMBER: GALN-SB8B-827-U-T2R

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4731.8	0°	4731.8	4731.8	4731.8	4731.8	4731.8	4731.8	4731.8	4731.8	4731.8	4731.8
4900.5	2.5°	4783.9	4679.8	4461.2	4259.3	4101.1	3949.1	3863.7	3790.9	3749.3	3740.9
5129.5	5°	4913.0	4698.5	4300.9	3965.8	3747.2	3584.8	3499.4	3445.3	3418.3	3401.6
5437.6	7.5°	5098.2	4783.9	4217.6	3836.7	3607.7	3491.1	3447.4	3439.1	3437.0	3439.1
5810.2	10°	5354.3	4923.4	4209.3	3805.5	3613.9	3549.4	3547.3	3549.4	3557.7	3559.8
6216.1	12.5°	5631.2	5067.0	4242.6	3832.5	3693.0	3657.7	3651.4	3649.3	3655.6	3659.7
6626.2	15°	5933.0	5256.4	4298.8	3890.8	3780.5	3743.0	3736.8	3724.3	3722.2	3720.1
7057.2	17.5°	6243.2	5443.8	4361.3	3953.3	3836.7	3784.6	3761.7	3732.6	3709.7	3703.5
7502.7	20°	6557.5	5629.1	4405.0	3984.5	3840.9	3768.0	3722.2	3672.2	3632.7	3609.8
7952.3	22.5°	6892.7	5822.7	4432.1	3976.2	3803.4	3703.5	3620.2	3561.9	3501.5	3462.0
8406.2	25°	7219.5	5991.3	4430.0	3932.4	3730.5	3603.5	3497.4	3422.4	3339.1	3297.5
8874.6	27.5°	7533.9	6143.3	4377.9	3855.4	3626.4	3484.9	3357.9	3268.4	3187.2	3147.6
9347.1	30°	7858.7	6270.3	4296.8	3743.0	3503.6	3347.5	3208.0	3131.0	3058.1	3020.6
9846.7	32.5°	8181.3	6386.8	4182.3	3603.5	3362.0	3212.2	3074.8	3004.0	2960.3	2960.3
10383.8	35°	8522.7	6468.0	4030.3	3441.2	3212.2	3068.5	2960.3	2918.6	2914.5	2889.5
10952.1	37.5°	8882.9	6520.1	3845.0	3274.6	3064.4	2929.0	2895.7	2845.8	2804.1	2750.0
11576.7	40°	9261.8	6572.1	3622.3	3101.8	2908.2	2833.3	2818.7	2752.1	2633.4	2500.2
12284.5	42.5°	9721.8	6607.5	3391.2	2929.0	2743.8	2718.8	2739.6	2625.1	2435.7	2335.7
13138.0	45°	10254.8	6665.8	3178.9	2758.3	2575.1	2575.1	2662.6	2512.7	2356.6	2294.1
14112.3	47.5°	10945.9	6801.1	2981.1	2571.0	2419.0	2460.6	2491.9	2377.4	2289.9	2212.9
15298.9	50°	11945.1	7125.9	2777.1	2381.5	2300.3	2383.6	2339.9	2273.3	2171.3	2108.8
17184.9	52.5°	13185.9	7317.4	2596.0	2210.8	2198.3	2281.6	2219.2	2156.7	2079.7	1996.4
18615.1	55°	14031.1	7352.8	2444.0	2085.9	2129.6	2121.3	2098.4	2042.2	2000.6	1890.2
20026.5	57.5°	14976.2	7423.6	2319.1	2011.0	2085.9	1994.3	1986.0	1938.1	1884.0	1809.1
21748.2	60°	16106.6	7533.9	2210.8	1981.8	2048.5	1911.1	1869.4	1850.7	1796.6	1759.1
23819.5	62.5°	17339.0	7633.8	2100.5	1986.0	2004.7	1829.9	1767.4	1761.2	1727.9	1715.4
25763.9	65°	18180.0	7361.1	1963.1	1981.8	1936.0	1746.6	1667.5	1665.4	1638.3	1634.2
26607.0	67.5°	17886.5	6497.2	1777.8	1923.5	1865.3	1663.3	1575.9	1567.6	1532.2	1534.3
25726.4	70°	16416.8	5264.8	1521.8	1779.9	1777.8	1588.4	1480.1	1453.1	1405.2	1413.5
22368.5	72.5°	13660.5	3901.2	1178.3	1540.5	1638.3	1519.7	1369.8	1326.1	1265.7	1274.0
16512.5	75°	9865.5	2652.2	857.7	1172.0	1426.0	1438.5	1261.5	1186.6	1113.7	1126.2
9191.0	77.5°	5048.3	1503.0	630.8	807.7	1120.0	1307.3	1163.7	1063.8	1047.1	1163.7
2650.1	80°	1646.7	753.6	437.2	566.2	734.9	1070.0	1020.1	905.6	901.4	928.5
555.8	82.5°	491.3	318.5	281.0	372.6	405.9	820.2	880.6	684.9	589.1	620.4
185.3	85°	168.6	154.1	160.3	185.3	193.6	480.9	616.2	453.8	428.8	472.6
41.6	87.5°	39.6	54.1	45.8	41.6	41.6	116.6	239.4	189.4	262.3	174.9
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>
4731.8
3740.9
3399.5
3445.3
3561.9
3661.8
3718.0
3709.7
3618.1
3464.1
3297.5
3145.5
3018.6
2962.3
2883.2
2741.7
2481.5
2337.8
2304.5
2210.8
2102.6
1979.8
1892.3
1784.1
1769.5
1715.4
1632.1
1534.3
1421.8
1272.0
1130.4
1147.1
797.3
641.2
466.3
168.6
0.0

F REPORT)