

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: P942872

Luminaire Tested: **GALN-SB7A-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-830-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28415 lumens
Efficiency: N/A
Efficacy: 142.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

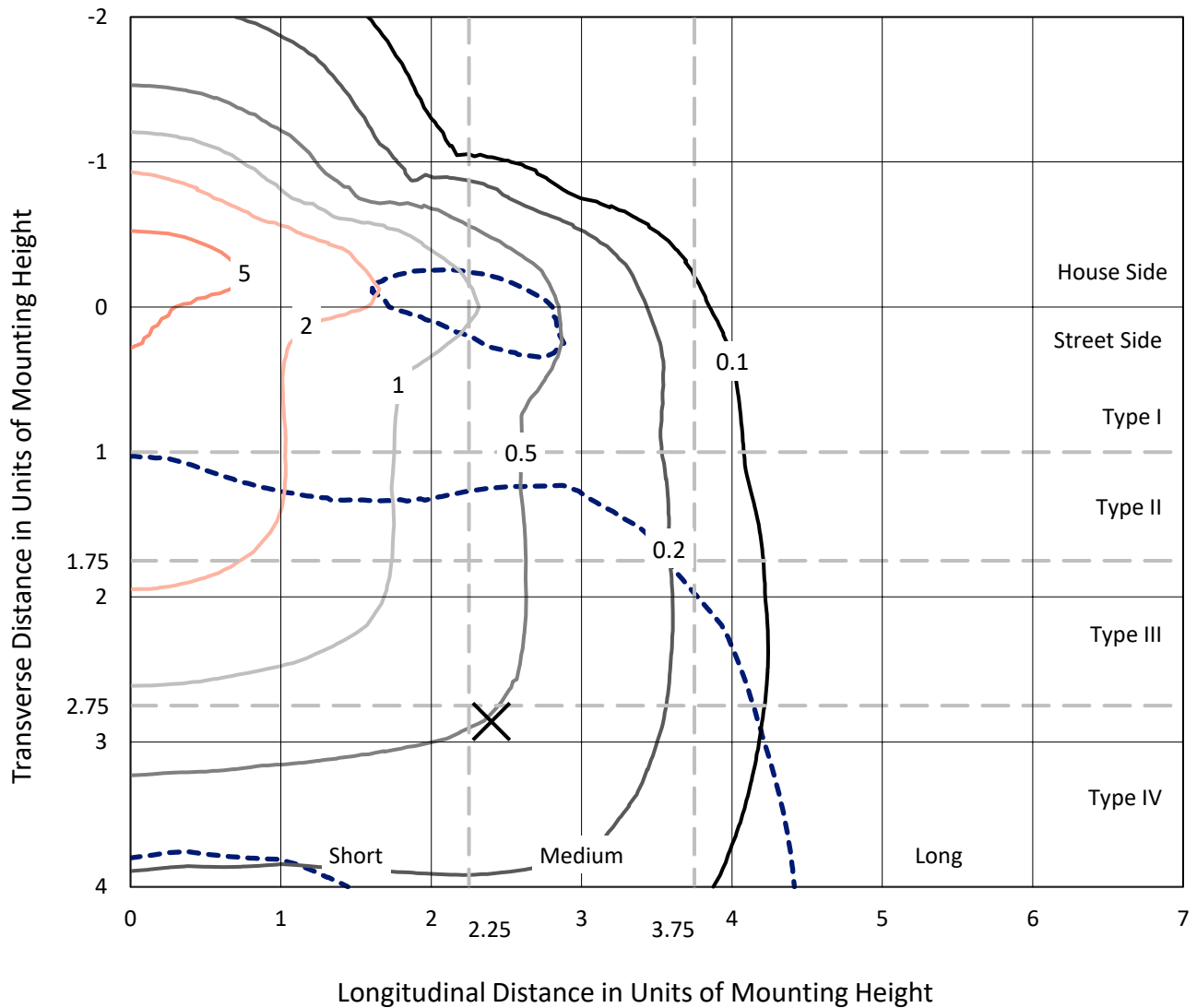
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P942872
 CATALOG NUMBER: GALN-SB7A-830-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

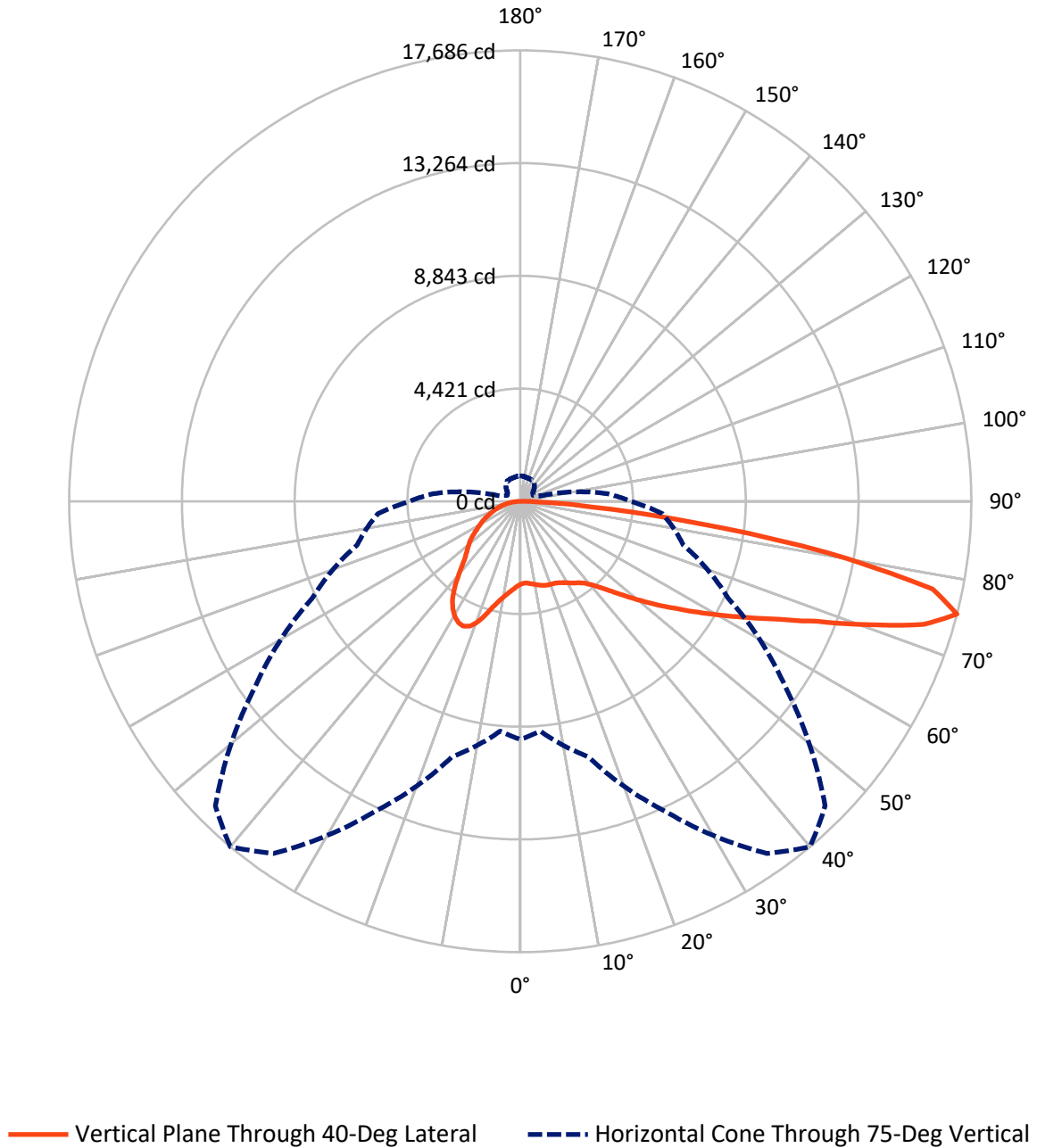
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Medium - N/A

REPORT NUMBER: P942872
CATALOG NUMBER: GALN-SB7A-830-U-SL4

Luminous Intensity Polar Plot



REPORT NUMBER: P942872

CATALOG NUMBER: GALN-SB7A-830-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8803.9	0.0	8803.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	19611.1	0.0	19611.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	28415.0	0.0	28415.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.3	1.1
10°-20°	1089.0	3.8
20°-30°	1988.4	7.0
30°-40°	2820.0	9.9
40°-50°	3807.9	13.4
50°-60°	5122.6	18.0
60°-70°	6501.8	22.9
70°-80°	5900.8	20.8
80°-90°	860.1	3.0
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°	28415.0	100.0
0°-180°	28415.0	100.0

Coefficient of Utilization



REPORT NUMBER: P942872

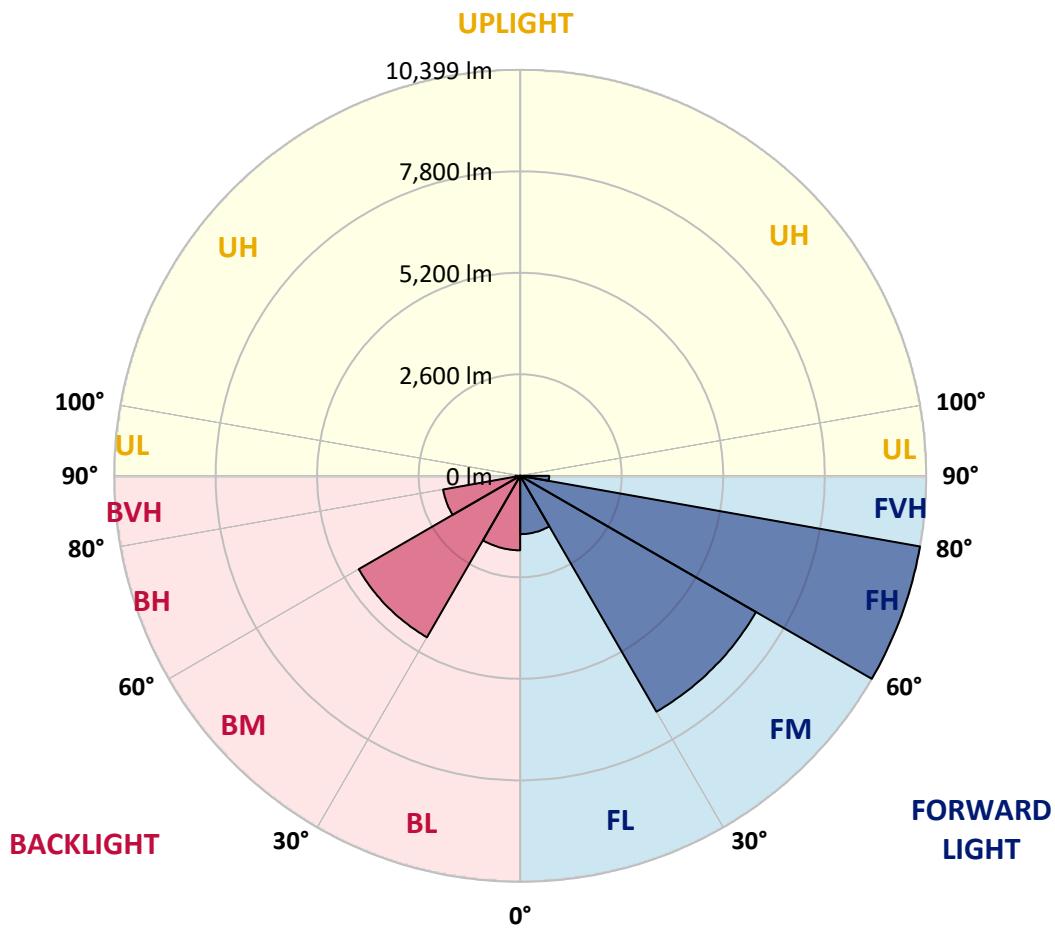
CATALOG NUMBER: GALN-SB7A-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1494.7	5.3			
FM (30°-60°)	6975.2	24.5			
FH (60°-80°)	10399.5	36.6			G4/12000
FVH (80°-90°)	741.7	2.6			G4/750
BL (0°-30°)	1907.0	6.7	B3/2500		
BM (30°-60°)	4775.3	16.8	B3/5000		
BH (60°-80°)	2003.1	7.0	B3/2500		G3/2500
BVH (80°-90°)	118.4	0.4			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 Medium



REPORT NUMBER: P942872

CATALOG NUMBER: GALN-SB7A-830-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	3249.3	3249.3	3249.3	3249.3	3249.3	3249.3	3249.3	3249.3	3249.3	3249.3
2.5°	3199.6	3217.6	3213.1	3207.1	3207.1	3208.6	3207.1	3217.6	3228.2	3238.7
5°	3232.7	3250.8	3241.8	3234.2	3228.2	3226.7	3222.2	3220.7	3226.7	3240.3
7.5°	3297.5	3315.6	3302.0	3288.5	3276.4	3270.4	3264.4	3255.3	3250.8	3258.3
10°	3369.9	3387.9	3371.4	3347.3	3327.7	3320.1	3314.1	3305.1	3299.0	3303.5
12.5°	3442.2	3460.3	3437.7	3404.5	3378.9	3374.4	3366.8	3363.8	3362.3	3360.8
15°	3510.0	3525.1	3496.5	3457.3	3430.1	3422.6	3415.1	3419.6	3427.1	3436.2
17.5°	3562.8	3577.8	3535.6	3484.4	3458.8	3455.8	3451.2	3466.3	3487.4	3510.0
20°	3611.0	3626.1	3571.8	3502.5	3472.3	3472.3	3473.9	3505.5	3535.6	3568.8
22.5°	3678.8	3690.9	3624.6	3529.6	3485.9	3488.9	3501.0	3532.6	3570.3	3615.5
25°	3779.8	3788.8	3707.4	3580.9	3531.1	3540.2	3550.7	3565.8	3602.0	3654.7
27.5°	3942.6	3950.1	3843.1	3671.3	3595.9	3611.0	3626.1	3615.5	3632.1	3677.3
30°	4171.6	4176.2	4040.5	3812.9	3705.9	3713.5	3716.5	3672.8	3641.1	3677.3
32.5°	4442.9	4441.4	4280.1	3984.8	3831.0	3823.5	3797.9	3712.0	3638.1	3669.8
35°	4863.4	4846.8	4638.8	4225.9	3972.7	3926.0	3865.7	3755.7	3653.2	3662.2
37.5°	5559.7	5508.4	5220.6	4620.7	4183.7	4064.6	3975.7	3826.5	3686.4	3659.2
40°	6344.9	6280.1	5963.6	5161.8	4500.2	4308.8	4165.6	3927.5	3740.6	3672.8
42.5°	7276.2	7184.3	6843.7	5799.3	4901.1	4623.8	4408.2	4055.6	3820.5	3716.5
45°	8420.1	8298.1	7815.8	6518.2	5405.9	5036.7	4748.9	4250.0	3942.6	3800.9
47.5°	9576.1	9606.2	8920.5	7341.1	6011.8	5546.1	5175.4	4542.4	4120.4	3936.5
50°	10804.4	10825.5	10019.2	8252.8	6699.0	6121.8	5654.6	4869.4	4367.6	4129.4
52.5°	11762.9	11765.9	11016.9	9206.8	7414.9	6754.8	6171.5	5243.2	4653.9	4385.6
55°	12362.7	12355.2	11716.1	10109.6	8237.8	7419.4	6744.2	5668.2	5003.5	4687.1
57.5°	12798.2	12775.6	12198.4	10885.7	9114.9	8204.6	7392.3	6150.4	5416.5	5045.7
60°	12964.0	12950.5	12525.5	11556.4	10037.2	9072.7	8139.8	6690.0	5885.2	5469.2
62.5°	13027.3	13052.9	12846.5	12205.9	11024.4	10034.2	8961.2	7335.0	6412.7	5948.5
65°	13250.4	13297.1	13254.9	13055.9	12139.6	11160.0	10050.8	8102.1	6988.4	6462.4
67.5°	13691.9	13738.7	13756.7	14073.2	13502.0	12563.1	11410.2	9057.6	7662.1	6995.9
70°	13681.4	13667.8	13987.3	14882.5	15208.1	14505.8	13242.8	10233.2	8465.3	7439.0
72.5°	12453.1	12344.6	13099.7	14873.5	16627.8	16534.3	15480.9	11749.3	9158.6	7493.3
75°	9342.5	9053.1	10386.9	13404.1	16864.4	17685.7	16903.6	12689.7	8994.3	6620.7
77.5°	3995.3	3704.4	5276.3	9922.7	15093.5	16532.8	15598.4	11071.1	7179.8	4378.1
80°	1045.9	1044.4	1594.5	4498.7	10264.8	12209.0	10710.9	7149.7	4102.3	1564.4
82.5°	432.5	422.0	586.3	1749.7	5015.6	6851.2	5591.3	3189.0	1481.5	423.5
85°	161.3	159.8	284.8	604.3	1769.3	2825.8	2045.1	815.3	369.2	206.5
87.5°	45.2	43.7	61.8	209.5	431.0	654.1	349.6	134.1	104.0	81.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P942872
 CATALOG NUMBER: GALN-SB7A-830-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3249.3	0°	3249.3	3249.3	3249.3	3249.3	3249.3	3249.3	3249.3	3249.3	3249.3	3249.3
3255.3	2.5°	3259.8	3267.4	3280.9	3291.5	3305.1	3320.1	3341.2	3354.8	3368.4	3377.4
3262.9	5°	3273.4	3290.0	3324.6	3359.3	3400.0	3437.7	3481.4	3513.0	3538.7	3546.2
3290.0	7.5°	3303.5	3330.7	3389.5	3448.2	3513.0	3574.8	3638.1	3692.4	3736.1	3752.7
3338.2	10°	3356.3	3392.5	3475.4	3558.2	3644.2	3739.1	3820.5	3898.9	3960.6	3986.3
3395.5	12.5°	3422.6	3467.8	3576.3	3690.9	3809.9	3941.0	4066.5	4143.0	4219.9	4254.5
3475.4	15°	3508.5	3567.3	3705.9	3859.7	4034.5	4216.8	4351.0	4458.0	4543.9	4586.1
3558.2	17.5°	3602.0	3680.3	3855.1	4087.2	4337.4	4577.0	4733.8	4812.1	4901.1	4941.8
3635.1	20°	3692.4	3788.8	4039.0	4376.6	4709.7	4964.4	5091.0	5112.1	5118.1	5122.6
3707.4	22.5°	3785.8	3915.4	4269.6	4741.3	5098.5	5274.8	5292.9	5202.5	5075.9	5017.1
3778.3	25°	3888.3	4060.1	4571.0	5143.7	5433.1	5454.2	5315.5	5095.5	4855.9	4745.8
3835.6	27.5°	3987.8	4227.4	4932.7	5528.0	5674.2	5488.8	5190.4	4878.5	4589.1	4473.1
3876.2	30°	4087.2	4418.8	5332.1	5864.1	5784.2	5402.9	4993.0	4644.9	4354.0	4231.9
3912.4	32.5°	4188.2	4641.8	5791.8	6106.7	5764.6	5220.6	4747.3	4382.6	4126.4	3998.3
3944.1	35°	4302.8	4916.1	6227.3	6239.4	5633.5	4952.3	4423.3	4069.2	3846.1	3743.6
3981.7	37.5°	4452.0	5264.3	6611.6	6272.5	5404.4	4559.0	4020.9	3698.4	3514.5	3467.8
4037.5	40°	4637.3	5683.2	6905.5	6219.8	5065.3	4081.2	3580.9	3323.1	3219.2	3229.7
4112.9	42.5°	4878.5	6152.0	7112.0	6084.1	4593.6	3588.4	3195.0	3080.5	3130.2	3172.4
4225.9	45°	5191.9	6638.7	7240.1	5853.6	4060.1	3170.9	2967.5	2994.6	3032.3	3036.8
4408.2	47.5°	5592.8	7131.6	7324.5	5505.4	3516.0	2877.0	2822.8	2828.8	2821.3	2789.6
4681.0	50°	6093.2	7610.8	7399.8	5044.2	3053.4	2693.2	2620.8	2599.7	2495.7	2393.3
5044.2	52.5°	6662.9	8050.9	7431.5	4471.5	2693.2	2539.5	2421.9	2289.3	2094.9	2063.2
5500.9	55°	7295.8	8457.8	7350.1	3767.7	2390.2	2342.0	2164.2	2004.4	1983.3	1956.2
6102.2	57.5°	8052.4	8896.4	7184.3	2982.5	2079.8	2111.4	1938.1	1956.2	1918.5	1876.3
6875.4	60°	8879.8	9350.0	6893.4	2266.7	1758.8	1823.6	1879.3	1877.8	1867.3	1832.6
7690.7	62.5°	9624.3	9648.4	6320.7	1736.2	1477.0	1600.5	1752.7	1751.2	1742.2	1722.6
8542.2	65°	10067.4	9603.2	5365.3	1366.9	1244.9	1416.7	1580.9	1593.0	1594.5	1593.0
9182.7	67.5°	9989.0	9074.2	4054.1	1088.1	1053.5	1229.8	1410.6	1427.2	1439.3	1442.3
9264.1	70°	9102.8	7912.2	2643.4	868.1	883.2	1065.5	1249.4	1266.0	1276.5	1288.6
8038.8	72.5°	7095.4	5817.4	1513.1	702.3	734.0	923.8	1089.6	1109.2	1115.2	1137.9
5594.3	75°	4323.9	3421.1	816.8	553.1	602.8	789.7	931.4	954.0	964.5	991.7
2747.4	77.5°	2055.7	1481.5	465.7	431.0	485.3	645.0	786.7	812.3	783.7	798.8
758.1	80°	694.8	550.1	293.9	328.5	370.7	503.4	630.0	655.6	595.3	592.3
251.7	82.5°	242.6	223.0	186.9	218.5	239.6	360.2	476.2	509.4	443.1	441.6
113.0	85°	94.9	90.4	104.0	119.1	143.2	221.5	313.5	330.1	272.8	220.0
33.2	87.5°	19.6	21.1	25.6	27.1	43.7	76.9	113.0	138.7	110.0	93.4
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>
3249.3
3371.4
3549.2
3754.2
3987.8
4254.5
4583.1
4940.3
5134.7
5033.7
4762.4
4486.6
4245.5
4014.9
3766.2
3501.0
3265.9
3211.6
3066.9
2813.7
2406.8
2073.8
1960.7
1868.8
1820.6
1715.1
1593.0
1445.3
1294.6
1146.9
994.7
786.7
586.3
420.5
217.0
85.9
0.0

F REPORT)