

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: P942368

Luminaire Tested: **GALN-SB6B-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6B-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23231 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

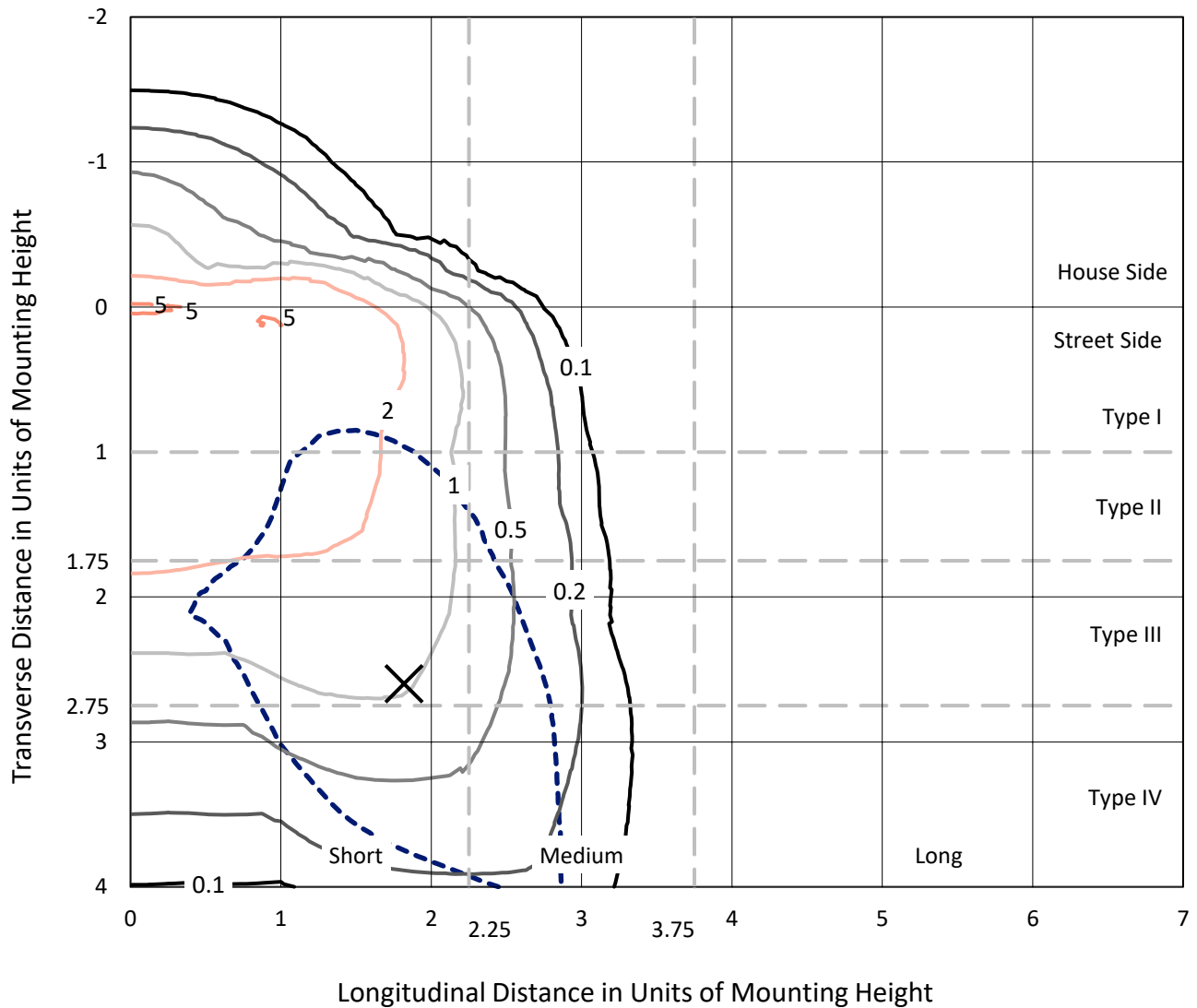
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P942368
 CATALOG NUMBER: GALN-SB6B-830-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

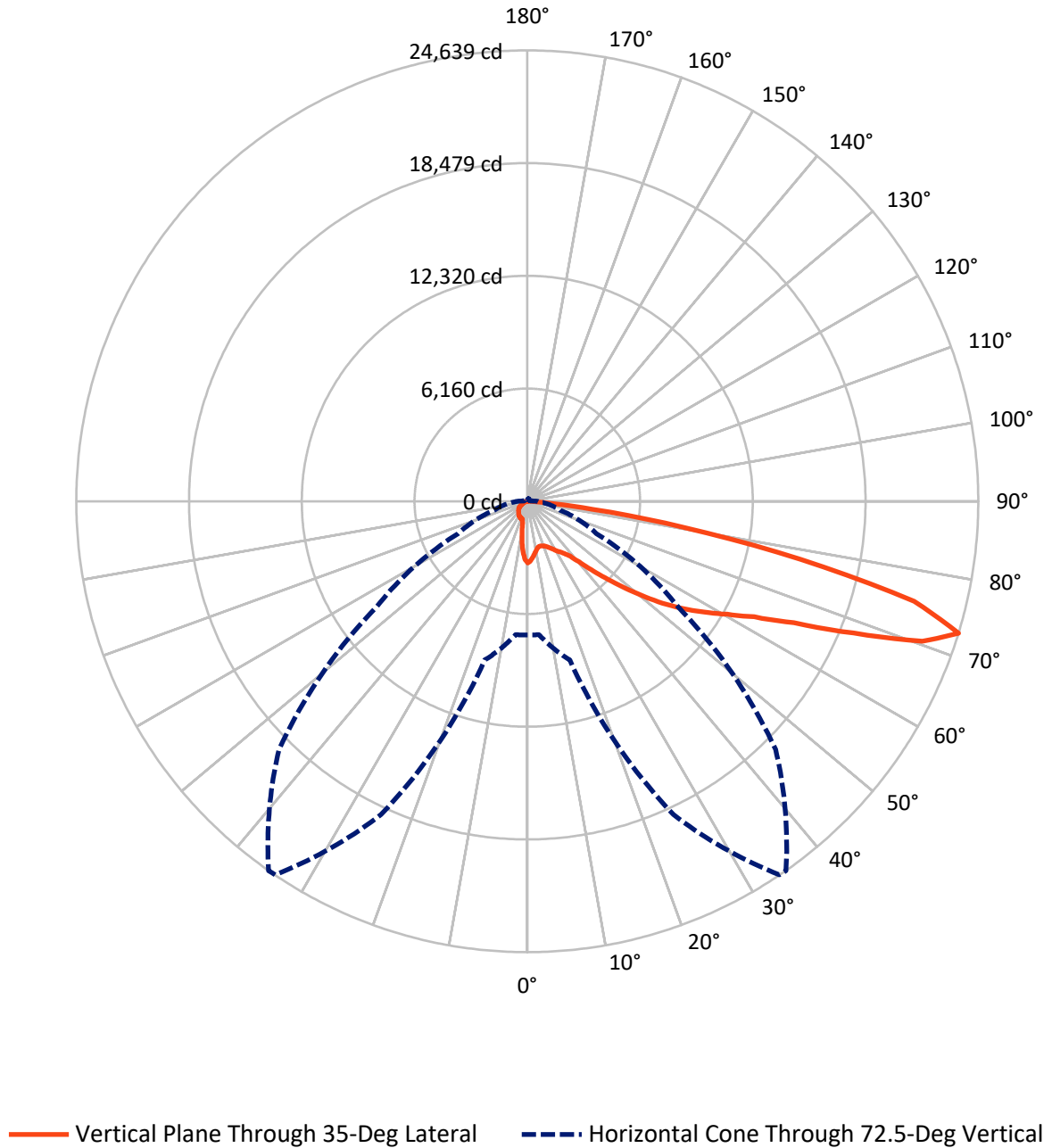
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P942368
CATALOG NUMBER: GALN-SB6B-830-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P942368
 CATALOG NUMBER: GALN-SB6B-830-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2614.5	0.0	2614.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	20616.5	0.0	20616.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	23231.0	0.0	23231.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.7	1.2
10°-20°	647.2	2.8
20°-30°	1051.4	4.5
30°-40°	1754.3	7.6
40°-50°	3319.2	14.3
50°-60°	5274.2	22.7
60°-70°	6524.5	28.1
70°-80°	4055.7	17.5
80°-90°	327.8	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°	23231.0	100.0
0°-180°	23231.0	100.0

Coefficient of Utilization



REPORT NUMBER: P942368

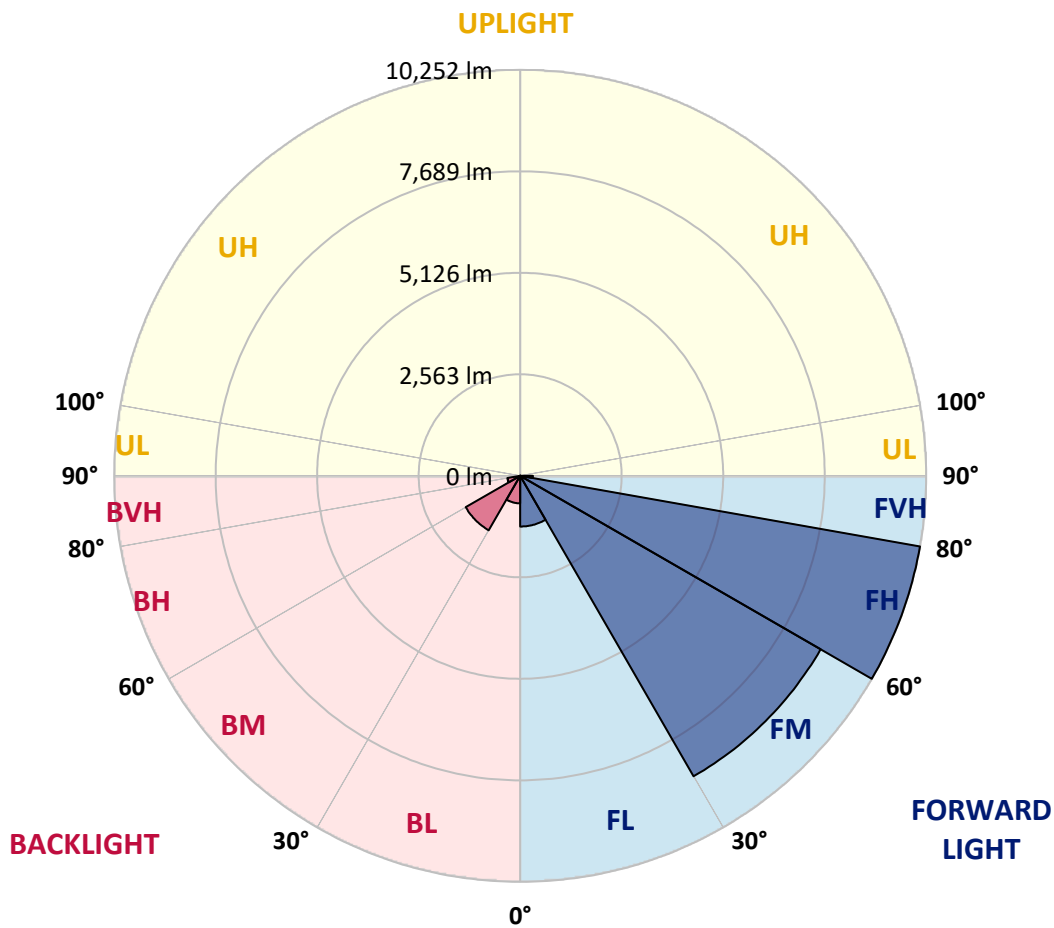
CATALOG NUMBER: GALN-SB6B-830-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1280.6	5.5			
FM (30°-60°)	8760.4	37.7			
FH (60°-80°)	10252.1	44.1			G4/12000
FVH (80°-90°)	323.3	1.4			G3/500
BL (0°-30°)	694.7	3.0	B2/1000		
BM (30°-60°)	1587.3	6.8	B2/2500		
BH (60°-80°)	328.1	1.4	B1/500		G1/500
BVH (80°-90°)	4.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



REPORT NUMBER: P942368
 CATALOG NUMBER: GALN-SB6B-830-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	3367.0	3367.0	3367.0	3367.0	3367.0	3367.0	3367.0	3367.0	3367.0	3367.0
2.5°	3217.2	3244.4	3249.5	3258.0	3258.0	3268.2	3285.2	3309.1	3348.2	3368.7
5°	2965.2	2985.7	3011.2	3031.6	3070.8	3075.9	3142.3	3206.9	3297.2	3365.2
7.5°	2711.6	2735.4	2769.5	2818.8	2869.9	2885.2	2985.7	3094.6	3237.6	3365.2
10°	2532.9	2534.6	2565.2	2614.6	2696.3	2715.0	2837.6	2992.5	3171.2	3344.8
12.5°	2432.4	2444.4	2458.0	2495.4	2573.7	2585.6	2716.7	2898.8	3104.8	3332.9
15°	2432.4	2441.0	2449.5	2468.2	2531.2	2541.4	2657.1	2839.3	3070.8	3338.0
17.5°	2458.0	2471.6	2464.8	2486.9	2553.3	2560.1	2662.2	2822.2	3069.1	3370.4
20°	2519.3	2529.5	2515.9	2529.5	2595.9	2609.5	2715.0	2854.6	3098.0	3426.5
22.5°	2616.3	2621.4	2589.0	2599.3	2667.3	2684.4	2806.9	2946.5	3167.8	3516.7
25°	2738.8	2749.1	2699.7	2711.6	2776.3	2796.7	2938.0	3084.4	3278.4	3641.0
27.5°	2880.1	2885.2	2842.7	2841.0	2924.4	2953.3	3096.3	3254.6	3426.5	3797.6
30°	3041.8	3057.2	3016.3	3009.5	3115.0	3138.9	3280.1	3464.0	3644.4	4032.5
32.5°	3169.5	3181.4	3157.6	3174.6	3281.8	3300.6	3503.1	3760.2	3986.6	4366.1
35°	3353.3	3360.1	3305.7	3336.3	3458.9	3506.5	3807.8	4175.5	4417.2	4784.9
37.5°	4018.9	4018.9	3787.4	3635.9	3753.4	3795.9	4224.9	4698.1	4948.3	5346.6
40°	4939.8	4924.5	4585.7	4275.9	4260.6	4344.0	4818.9	5356.8	5634.3	6020.7
42.5°	5922.0	5898.1	5436.8	5130.4	5079.4	5108.3	5504.9	6168.8	6451.3	6842.8
45°	6793.5	6786.7	6364.5	5952.6	5860.7	5952.6	6361.1	7118.6	7321.2	7733.1
47.5°	7523.7	7523.7	7215.6	6946.7	6899.0	6953.5	7520.3	8172.3	8153.5	8681.2
50°	8364.6	8357.8	8065.0	7949.3	7998.6	8075.2	8854.8	9282.1	9014.8	9612.3
52.5°	8953.6	8994.4	8894.0	8875.3	9127.2	9260.0	10209.8	10368.1	9785.9	10495.8
55°	9420.0	9467.6	9583.4	9714.5	10199.6	10373.2	11522.2	11397.9	10431.1	11261.8
57.5°	10080.4	10012.3	10191.1	10449.8	11234.5	11443.9	12793.7	12369.9	10950.2	11883.1
60°	10882.2	10892.4	10923.0	11249.8	12267.8	12536.7	14046.6	13289.1	11283.9	12264.3
62.5°	11845.6	11860.9	11923.9	12426.1	13655.0	13908.7	15381.1	14041.4	11437.1	12157.1
65°	11779.2	11843.9	12546.9	14264.4	15764.1	16014.3	16938.6	14569.1	11205.6	11176.6
67.5°	10730.7	10836.2	12012.4	16460.3	18943.8	19222.9	18821.2	14673.0	10206.4	8691.4
70°	9355.3	9392.7	10807.3	18434.8	22625.6	22908.2	20506.4	13530.8	7745.0	4847.9
72.5°	7305.8	7314.4	8974.0	18892.7	24624.0	24639.3	19183.8	10044.7	4165.3	1862.2
75°	5218.9	5167.9	6010.5	15321.5	21663.9	21837.5	14381.9	4711.7	1591.6	880.0
77.5°	2798.4	2854.6	3401.0	9086.3	14965.7	15261.9	7847.1	1358.4	810.2	599.2
80°	864.7	912.4	1394.1	4160.2	8477.0	8655.7	2909.1	604.3	565.1	427.3
82.5°	272.4	282.6	650.2	1748.2	3518.4	3600.2	842.6	342.1	386.4	282.6
85°	78.3	80.0	289.4	651.9	869.8	886.8	236.6	132.8	221.3	175.3
87.5°	8.5	27.2	108.9	108.9	76.6	74.9	25.5	28.9	63.0	22.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P942368

CATALOG NUMBER: GALN-SB6B-830-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3367.0	0°	3367.0	3367.0	3367.0	3367.0	3367.0	3367.0	3367.0	3367.0	3367.0	3367.0
3382.3	2.5°	3373.8	3375.5	3353.3	3315.9	3275.0	3241.0	3198.4	3164.4	3140.6	3133.7
3412.9	5°	3397.6	3385.7	3322.7	3208.6	3072.5	2955.0	2823.9	2720.1	2652.0	2623.1
3445.3	7.5°	3433.3	3399.3	3261.4	3036.7	2776.3	2544.8	2309.9	2127.7	2012.0	1954.1
3475.9	10°	3464.0	3395.9	3159.3	2788.2	2389.9	2039.2	1722.6	1503.0	1380.5	1322.6
3511.6	12.5°	3492.9	3394.2	3026.5	2493.7	1954.1	1525.2	1230.7	1121.7	1087.7	1075.8
3569.5	15°	3547.4	3399.3	2859.7	2156.7	1520.1	1152.4	1045.2	1043.4	1050.3	1046.9
3658.0	17.5°	3622.3	3404.4	2670.8	1799.2	1172.8	1016.2	1011.1	1026.4	1036.6	1031.5
3768.7	20°	3719.3	3424.8	2469.9	1445.2	1007.7	982.2	994.1	1007.7	1016.2	1007.7
3916.8	22.5°	3855.5	3460.6	2250.3	1160.9	954.9	961.7	972.0	987.3	995.8	983.9
4105.7	25°	4022.3	3516.7	2034.1	1009.4	929.4	937.9	953.2	970.3	980.5	968.6
4344.0	27.5°	4238.5	3607.0	1835.0	975.4	903.9	909.0	931.1	956.6	970.3	954.9
4682.8	30°	4551.7	3755.1	1663.0	990.7	888.5	876.6	907.3	943.0	958.3	944.7
5144.0	32.5°	4967.0	3964.4	1557.5	1014.5	881.7	839.2	868.1	914.1	939.6	931.1
5746.6	35°	5511.7	4282.7	1516.7	1041.7	876.6	800.0	820.5	869.8	914.1	922.6
6505.8	37.5°	6172.2	4725.3	1528.6	1053.7	861.3	767.7	777.9	820.5	878.3	905.6
7360.3	40°	6922.8	5241.1	1596.7	1041.7	844.3	740.5	742.2	774.5	825.6	866.4
8279.5	42.5°	7697.3	5843.7	1722.6	997.5	829.0	716.6	711.5	733.6	767.7	796.6
9197.0	45°	8434.4	6463.3	1846.9	936.2	810.2	692.8	680.9	689.4	696.2	708.1
10090.6	47.5°	9077.8	6899.0	1811.1	880.0	784.7	665.6	645.1	641.7	621.3	619.6
10889.0	50°	9522.1	6994.3	1608.6	823.9	747.3	634.9	602.6	582.2	546.4	529.4
11486.4	52.5°	9663.4	6618.2	1314.1	767.7	686.0	594.1	548.1	515.8	471.5	456.2
11830.3	55°	9476.1	5881.1	1050.3	699.6	600.9	539.6	488.5	446.0	410.2	391.5
11867.7	57.5°	9018.3	4943.2	830.7	619.6	510.7	478.3	427.3	384.7	354.1	335.3
11452.4	60°	8259.1	3925.3	657.0	524.3	435.8	411.9	359.2	331.9	304.7	282.6
10380.0	62.5°	7106.7	2801.8	515.8	415.3	364.3	337.0	306.4	286.0	253.6	223.0
8451.4	65°	5545.8	1714.1	398.3	304.7	292.8	279.2	260.4	241.7	202.6	171.9
5513.4	67.5°	3498.0	811.9	284.3	229.8	231.5	224.7	216.2	200.9	171.9	144.7
2469.9	70°	1540.5	393.2	187.2	175.3	171.9	171.9	178.7	173.6	146.4	120.9
857.9	72.5°	524.3	211.1	139.6	132.8	124.3	122.6	149.8	144.7	117.5	93.6
427.3	75°	274.1	141.3	102.1	95.3	74.9	90.2	119.2	112.3	83.4	61.3
282.6	77.5°	178.7	100.4	69.8	61.3	42.6	59.6	88.5	78.3	49.4	30.6
185.5	80°	112.3	66.4	40.9	28.9	20.4	32.3	47.7	34.0	18.7	6.8
108.9	82.5°	59.6	34.0	15.3	10.2	8.5	10.2	11.9	8.5	3.4	0.0
56.2	85°	23.8	11.9	5.1	3.4	1.7	0.0	3.4	1.7	0.0	0.0
10.2	87.5°	8.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
3367.0
3145.7
2633.3
1962.6
1324.3
1072.4
1045.2
1029.8
1006.0
982.2
966.8
954.9
943.0
931.1
922.6
912.4
880.0
808.5
714.9
617.9
531.1
454.5
391.5
331.9
277.5
217.9
166.8
141.3
115.7
88.5
56.2
27.2
5.1
0.0
0.0
0.0
0.0

F REPORT)