

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: P942184

Luminaire Tested: **GALN-SB6A-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942184
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6A-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17273 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

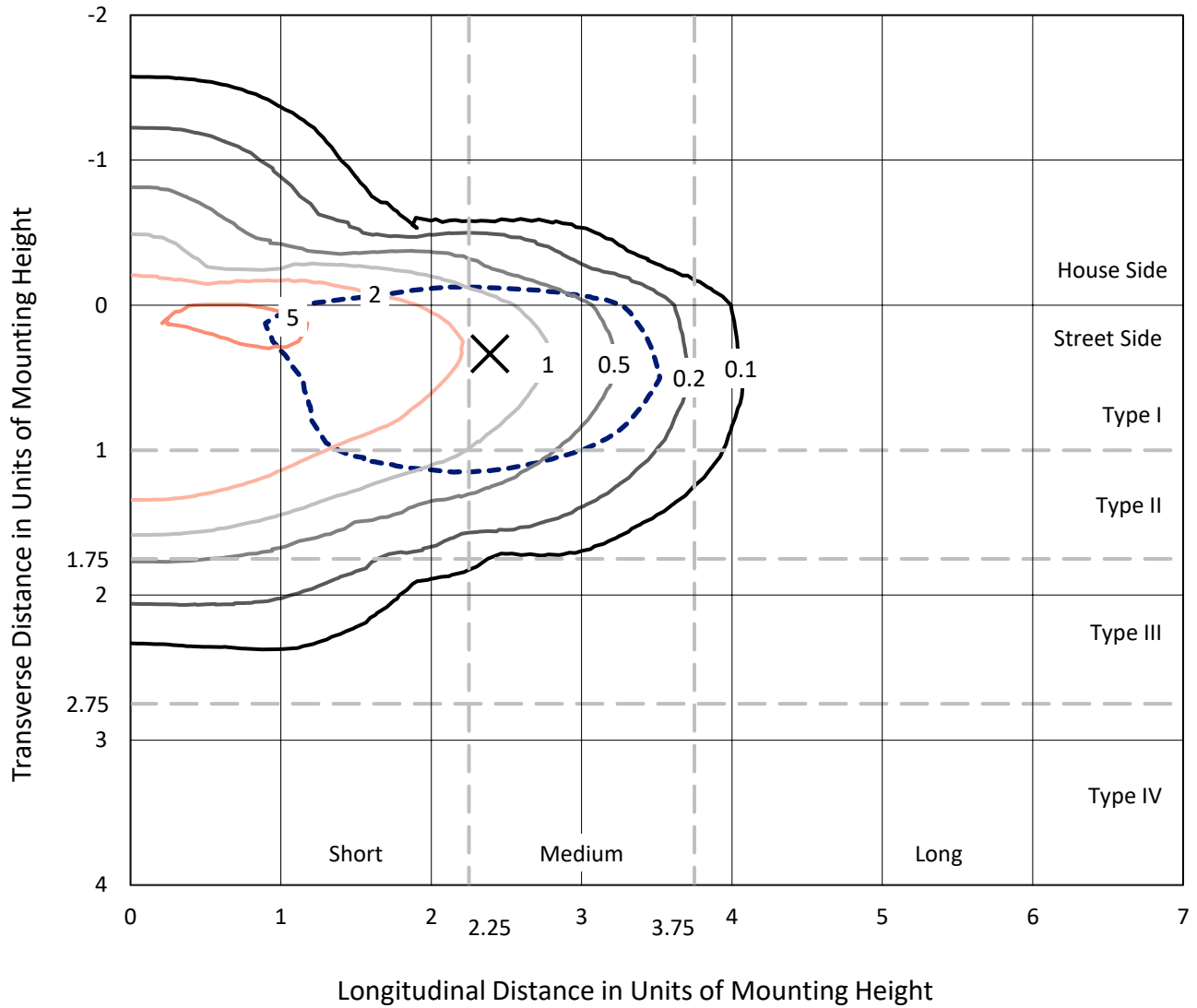
Input Watts (W): 170.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P942184
 CATALOG NUMBER: GALN-SB6A-827-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

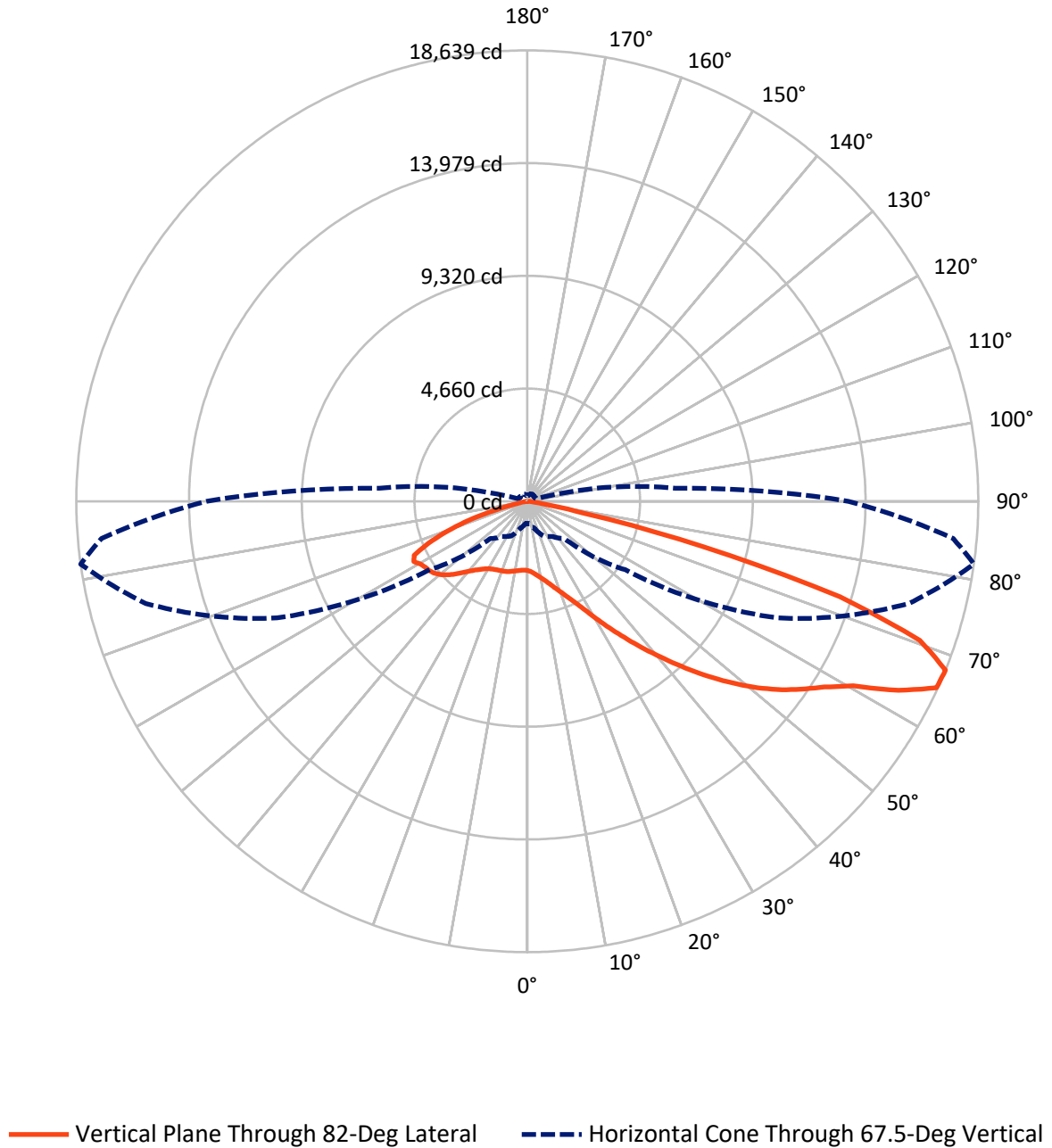
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Medium - N/A

REPORT NUMBER: P942184
CATALOG NUMBER: GALN-SB6A-827-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P942184
 CATALOG NUMBER: GALN-SB6A-827-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3128.8	0.0	3128.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	14144.1	0.0	14144.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	17273.0	0.0	17273.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.9	1.5
10°-20°	662.5	3.8
20°-30°	1061.1	6.1
30°-40°	1876.4	10.9
40°-50°	3287.6	19.0
50°-60°	4384.7	25.4
60°-70°	4081.9	23.6
70°-80°	1566.6	9.1
80°-90°	97.3	0.6
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°	17273.0	100.0
0°-180°	17273.0	100.0

Coefficient of Utilization



REPORT NUMBER: P942184

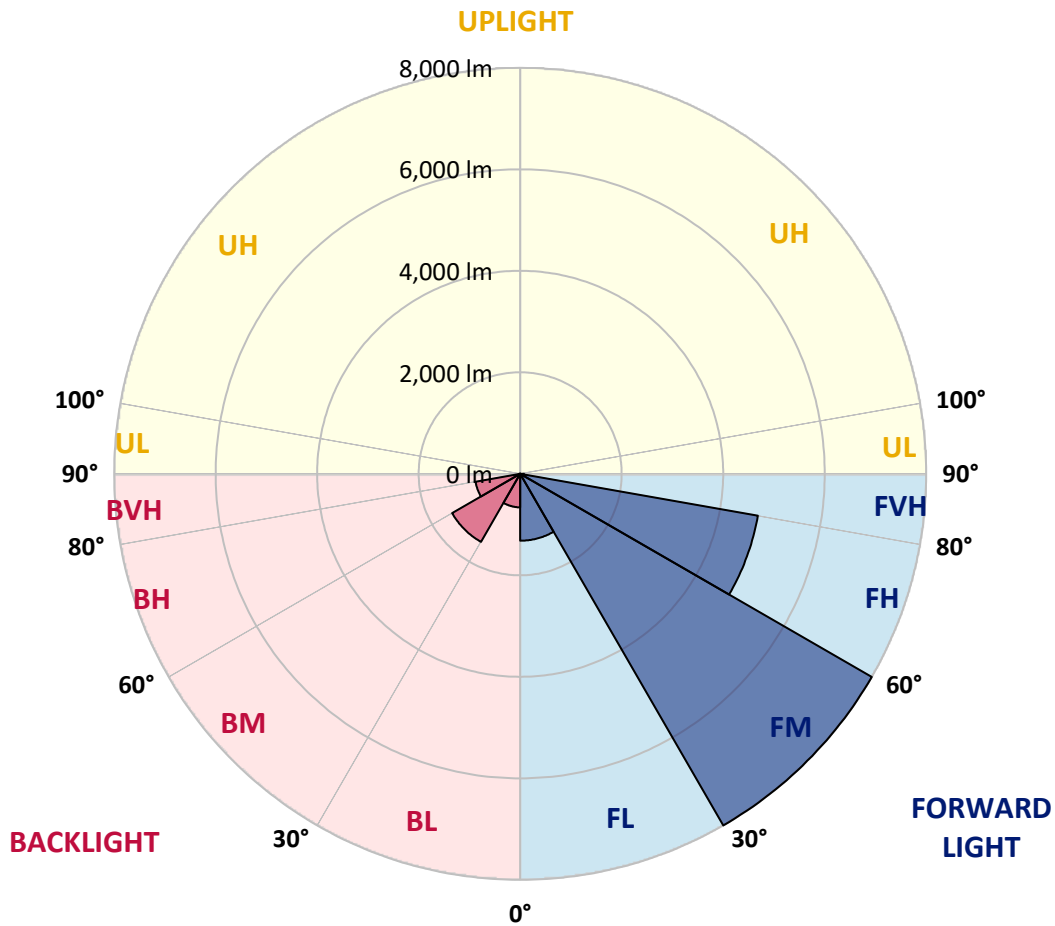
CATALOG NUMBER: GALN-SB6A-827-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1317.7	7.6			
FM (30°-60°)	8000.1	46.3			
FH (60°-80°)	4755.5	27.5			G2/5000
FVH (80°-90°)	70.7	0.4			G1/100
BL (0°-30°)	660.8	3.8	B2/1000		
BM (30°-60°)	1548.5	9.0	B2/2500		
BH (60°-80°)	893.0	5.2	B2/1000		G2/1000
BVH (80°-90°)	26.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



REPORT NUMBER: P942184

CATALOG NUMBER: GALN-SB6A-827-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	2861.6	2861.6	2861.6	2861.6	2861.6	2861.6	2861.6	2861.6	2861.6	2861.6
2.5°	3024.5	3041.9	3031.9	3027.0	3018.2	3005.8	2995.9	2964.8	2932.4	2911.3
5°	3085.4	3102.8	3101.6	3106.5	3112.8	3116.5	3114.0	3079.2	3033.2	2997.1
7.5°	3033.2	3053.1	3069.2	3094.1	3137.6	3183.6	3206.0	3198.6	3151.3	3101.6
10°	2885.2	2906.3	2944.9	3003.3	3095.4	3194.8	3278.2	3316.7	3286.9	3232.1
12.5°	2614.1	2635.2	2711.1	2837.9	2992.1	3165.0	3324.2	3427.4	3434.9	3380.1
15°	2309.4	2330.5	2411.4	2570.5	2805.6	3082.9	3349.0	3544.3	3610.2	3562.9
17.5°	2120.4	2139.0	2199.9	2328.0	2573.0	2918.8	3340.3	3668.7	3819.1	3781.8
20°	2063.2	2079.3	2107.9	2197.5	2401.4	2748.4	3283.1	3785.6	4044.2	4023.1
22.5°	2124.1	2139.0	2147.7	2187.5	2315.6	2636.5	3211.0	3904.9	4305.4	4307.9
25°	2264.6	2279.5	2269.6	2294.5	2350.4	2601.6	3183.6	4045.5	4633.7	4661.1
27.5°	2495.9	2497.2	2473.5	2472.3	2481.0	2653.9	3212.3	4195.9	5047.8	5098.8
30°	2959.8	2941.1	2850.4	2752.1	2707.3	2810.6	3291.8	4373.8	5536.6	5627.3
32.5°	3674.9	3647.5	3480.9	3245.8	3009.5	3063.0	3434.9	4576.5	6068.8	6233.0
35°	4450.9	4443.4	4269.3	3919.9	3507.0	3422.4	3667.4	4842.6	6649.6	6910.8
37.5°	5172.2	5168.5	5069.0	4657.3	4154.9	3923.6	4040.5	5190.8	7271.4	7649.5
40°	5831.3	5842.5	5743.0	5374.9	4868.7	4566.5	4547.9	5621.1	7962.8	8454.1
42.5°	6400.9	6413.3	6312.6	6040.2	5573.9	5277.9	5170.9	6148.4	8638.1	9318.4
45°	6787.6	6864.7	6849.8	6632.2	6297.7	5990.5	5919.6	6810.0	9407.9	10234.9
47.5°	6897.1	6968.0	7079.9	7109.7	6905.8	6603.6	6688.1	7607.2	10186.4	11152.7
50°	6627.2	6693.1	6925.7	7235.3	7377.1	7283.8	7435.6	8461.5	10983.6	12068.0
52.5°	6094.9	6162.1	6455.6	6945.6	7523.9	7817.3	8185.5	9303.5	11755.9	12934.8
55°	5325.1	5396.0	5772.8	6327.5	7244.0	8037.5	8811.0	10144.1	12463.5	13714.6
57.5°	4278.0	4330.3	4722.0	5498.0	6540.2	7818.6	9272.4	11061.9	13130.1	14480.6
60°	2788.2	2834.2	3289.4	4154.9	5373.6	7087.3	9364.4	12085.4	14015.5	15476.8
62.5°	1854.2	1885.3	2155.2	2790.7	3784.3	5683.3	8825.9	12902.5	15313.8	17210.3
65°	1272.2	1303.3	1573.2	2015.9	2444.9	3759.4	7277.6	12794.3	16490.3	18587.0
67.5°	907.8	934.0	1162.8	1580.6	1769.7	2183.8	4933.4	11411.4	16321.2	18639.3
70°	650.4	665.3	854.4	1231.2	1406.5	1312.0	2743.4	8727.7	14290.3	17211.6
72.5°	455.2	460.1	593.2	937.7	1132.9	957.6	1305.8	5818.9	10808.2	13509.4
75°	308.4	314.6	399.2	687.7	909.1	731.2	691.4	3120.2	6344.9	7477.8
77.5°	189.0	191.5	257.4	470.1	680.3	557.1	445.2	1322.0	2454.9	2410.1
80°	107.0	107.0	164.2	292.2	463.9	359.4	312.1	562.1	777.3	682.7
82.5°	59.7	60.9	119.4	181.6	307.2	212.7	171.6	259.9	335.8	297.2
85°	24.9	27.4	73.4	85.8	146.7	105.7	69.6	109.4	124.4	110.7
87.5°	2.5	3.7	22.4	16.2	17.4	21.1	9.9	21.1	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P942184
 CATALOG NUMBER: GALN-SB6A-827-U-T2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2861.6	0°	2861.6	2861.6	2861.6	2861.6	2861.6	2861.6	2861.6	2861.6	2861.6	2861.6
2903.8	2.5°	2880.2	2861.6	2814.3	2759.6	2687.4	2652.6	2605.4	2573.0	2545.7	2548.2
2976.0	5°	2936.2	2888.9	2783.2	2651.4	2487.2	2370.3	2246.0	2160.2	2090.5	2075.6
3075.5	7.5°	3013.3	2938.7	2753.4	2515.8	2238.5	2028.3	1840.5	1719.9	1634.1	1606.7
3196.1	10°	3112.8	3004.6	2714.8	2345.5	1946.3	1678.9	1477.4	1382.9	1324.4	1304.5
3337.9	12.5°	3228.4	3080.4	2663.8	2137.8	1645.3	1387.9	1259.8	1212.5	1193.9	1187.6
3512.0	15°	3373.9	3174.9	2586.7	1891.5	1390.4	1210.0	1155.3	1149.1	1151.6	1149.1
3720.9	17.5°	3546.8	3278.2	2461.1	1637.8	1218.7	1119.3	1099.4	1104.3	1110.5	1109.3
3954.7	20°	3735.8	3380.1	2300.7	1412.7	1101.8	1054.6	1043.4	1048.4	1053.3	1050.9
4224.6	22.5°	3951.0	3489.6	2122.8	1237.4	1023.5	994.9	982.5	983.7	983.7	978.7
4566.5	25°	4208.4	3610.2	1936.3	1113.0	963.8	941.4	926.5	921.5	914.1	899.1
4981.9	27.5°	4515.6	3738.3	1757.2	1026.0	916.5	895.4	878.0	865.6	846.9	822.0
5480.6	30°	4861.3	3893.7	1605.5	971.3	879.2	858.1	838.2	819.5	792.2	761.1
6053.9	32.5°	5267.9	4060.4	1494.8	935.2	845.7	823.3	799.6	777.3	747.4	716.3
6698.1	35°	5752.9	4261.9	1430.2	910.3	819.5	789.7	763.6	738.7	716.3	689.0
7398.2	37.5°	6279.0	4475.8	1410.3	897.9	802.1	756.1	726.3	708.9	706.4	690.2
8155.6	40°	6854.8	4729.5	1425.2	890.4	783.5	723.8	691.4	687.7	693.9	665.3
8965.2	42.5°	7464.2	5030.4	1450.1	881.7	757.4	691.4	660.4	660.4	655.4	615.6
9820.8	45°	8123.3	5377.4	1474.9	860.6	726.3	659.1	635.5	626.8	605.6	567.1
10681.4	47.5°	8787.4	5730.6	1493.6	822.0	689.0	631.8	610.6	590.7	559.6	524.8
11525.8	50°	9417.9	6047.7	1473.7	764.8	646.7	605.6	583.3	555.9	522.3	498.7
12325.4	52.5°	9981.2	6322.5	1389.1	697.7	601.9	578.3	558.4	529.8	502.4	477.5
13046.7	55°	10471.2	6545.1	1239.9	634.2	562.1	554.7	534.8	498.7	461.4	440.2
13761.8	57.5°	10941.3	6714.3	1053.3	582.0	526.0	528.5	498.7	466.4	431.5	409.1
14725.6	60°	11566.8	6940.6	864.3	533.5	487.5	495.0	462.6	439.0	395.5	366.9
16378.4	62.5°	12566.7	7292.5	686.5	473.8	442.7	445.2	431.5	402.9	350.7	317.1
17603.3	65°	13360.1	7163.2	541.0	409.1	391.7	395.5	395.5	364.4	308.4	269.9
17669.2	67.5°	13270.6	6133.5	431.5	345.7	343.2	345.7	354.4	328.3	273.6	242.5
16323.7	70°	12224.7	4878.7	345.7	287.3	298.5	292.2	317.1	299.7	246.2	215.1
12655.0	72.5°	9975.0	3514.4	263.6	237.5	228.8	238.8	286.0	269.9	205.2	170.4
6703.1	75°	5828.8	1875.4	196.5	187.8	165.4	199.0	253.7	230.1	156.7	125.6
2054.4	77.5°	1897.8	654.1	144.3	138.0	123.1	160.4	216.4	194.0	128.1	99.5
601.9	80°	508.6	197.7	98.2	90.8	79.6	119.4	171.6	154.2	92.0	64.7
258.7	82.5°	204.0	83.3	57.2	51.0	43.5	82.1	135.6	124.4	68.4	41.0
80.8	85°	65.9	27.4	21.1	16.2	19.9	51.0	80.8	84.6	48.5	21.1
12.4	87.5°	8.7	3.7	3.7	5.0	3.7	8.7	24.9	23.6	13.7	2.5
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>
2861.6
2523.3
2042.0
1579.4
1289.6
1183.9
1147.9
1106.8
1049.6
976.2
896.6
819.5
758.6
717.6
686.5
689.0
666.6
615.6
565.8
523.6
495.0
475.1
437.8
406.7
363.1
314.6
266.1
237.5
211.4
166.6
121.9
95.8
63.4
41.0
16.2
0.0
0.0

F REPORT)