

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: P940525

Luminaire Tested: **GALN-SB3C-850-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3C-850-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21296 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

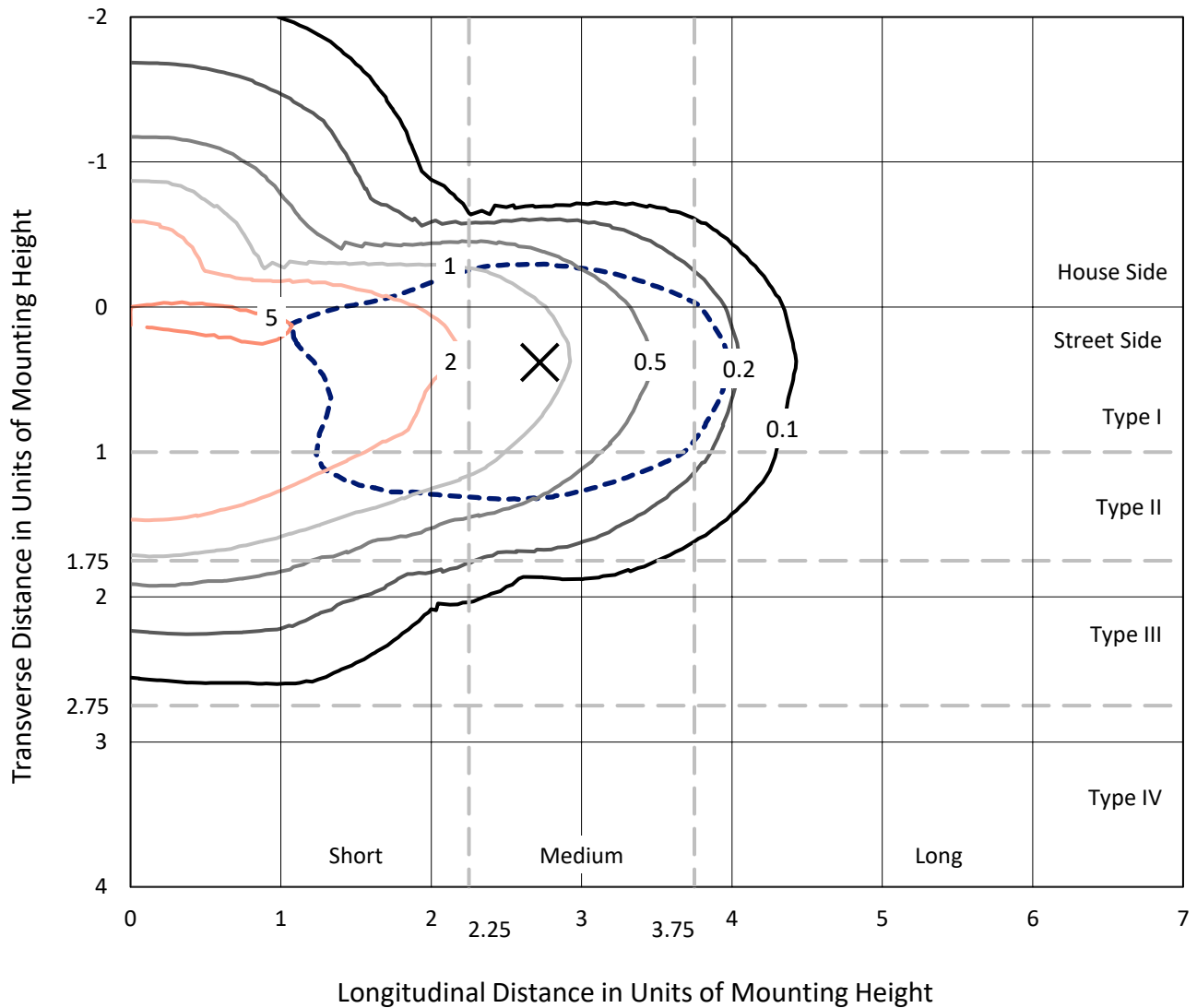
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P940525
 CATALOG NUMBER: GALN-SB3C-850-U-T2

Iso-Footcandle Lines of Horizontal Illumination

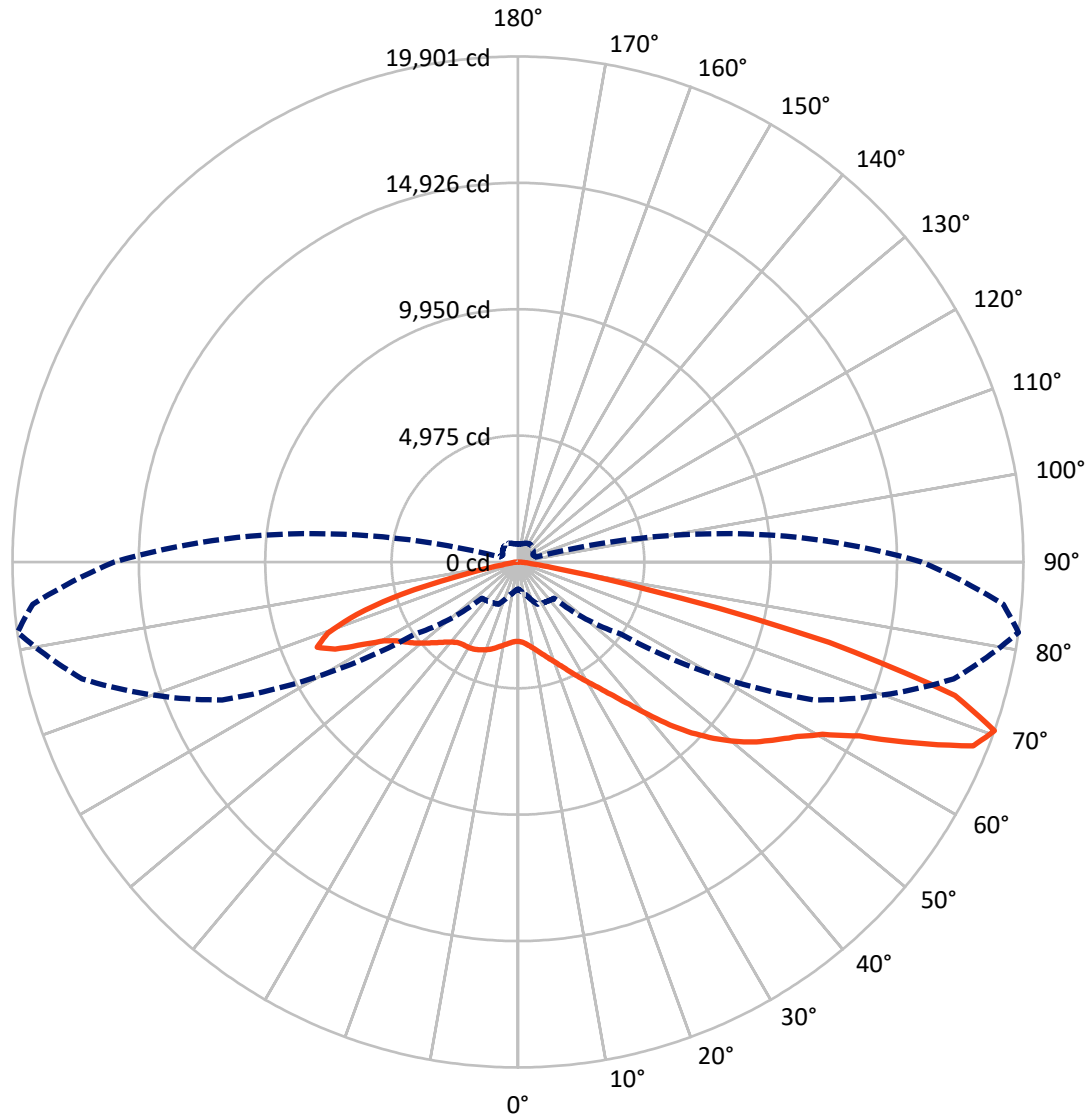
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P940525
CATALOG NUMBER: GALN-SB3C-850-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P940525
 CATALOG NUMBER: GALN-SB3C-850-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5250.0	0.0	5250.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	16046.0	0.0	16046.0
	% Fixture	75.3	0.0	75.3
Total	Lumens	21296.0	0.0	21296.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.8	1.4
10°-20°	847.0	4.0
20°-30°	1416.9	6.7
30°-40°	2213.6	10.4
40°-50°	3525.3	16.6
50°-60°	4905.9	23.0
60°-70°	5131.8	24.1
70°-80°	2682.2	12.6
80°-90°	278.5	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°	21296.0	100.0
0°-180°	21296.0	100.0

Coefficient of Utilization



REPORT NUMBER: P940525

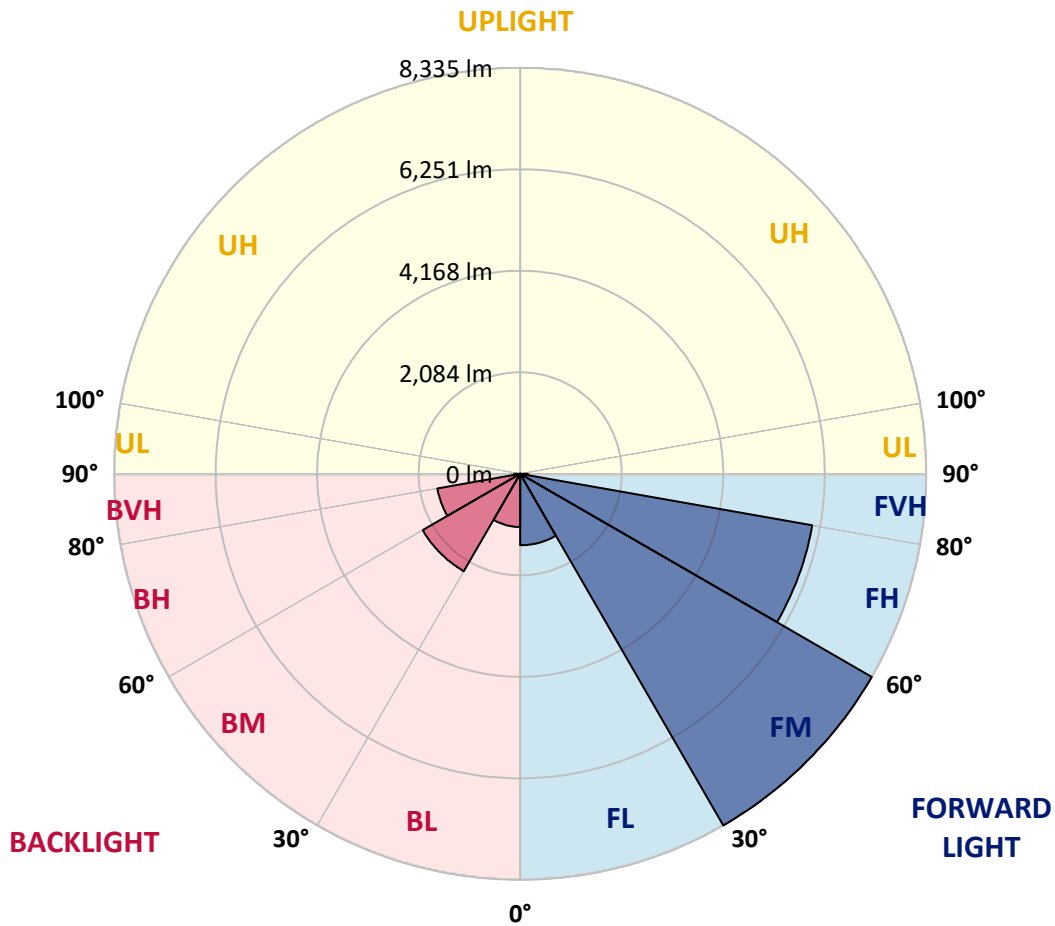
CATALOG NUMBER: GALN-SB3C-850-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1466.5	6.9			
FM (30°-60°)	8335.0	39.1			
FH (60°-80°)	6088.6	28.6			G3/7500
FVH (80°-90°)	155.9	0.7			G2/225
BL (0°-30°)	1092.2	5.1	B3/2500		
BM (30°-60°)	2309.8	10.8	B2/2500		
BH (60°-80°)	1725.4	8.1	B3/2500		G3/2500
BVH (80°-90°)	122.6	0.6			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 II Medium



REPORT NUMBER: P940525
 CATALOG NUMBER: GALN-SB3C-850-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3122.3	3122.3	3122.3	3122.3	3122.3	3122.3	3122.3	3122.3	3122.3	3122.3
2.5°	3196.8	3214.9	3209.3	3203.6	3203.6	3195.7	3194.6	3183.3	3174.2	3159.6
5°	3237.5	3256.7	3254.5	3259.0	3273.7	3277.1	3280.5	3273.7	3255.6	3237.5
7.5°	3201.4	3222.8	3229.6	3256.7	3301.9	3342.6	3373.1	3385.6	3368.6	3342.6
10°	3079.3	3103.0	3126.8	3191.2	3271.4	3367.5	3448.8	3497.4	3494.0	3469.2
12.5°	2831.8	2856.7	2907.6	3033.0	3179.9	3349.4	3500.8	3602.5	3637.6	3619.5
15°	2634.1	2655.6	2694.0	2822.8	3013.8	3271.4	3520.0	3717.8	3807.1	3796.9
17.5°	2628.4	2637.5	2661.2	2722.2	2869.1	3149.4	3499.7	3830.8	4001.4	4000.3
20°	2727.9	2731.3	2744.8	2757.3	2840.9	3056.7	3447.7	3924.6	4219.5	4219.5
22.5°	2865.7	2863.5	2877.0	2865.7	2906.4	3048.8	3414.9	4007.1	4462.5	4480.6
25°	3072.5	3061.2	3057.8	3031.9	3039.8	3122.3	3451.1	4100.9	4750.6	4787.9
27.5°	3348.3	3330.2	3317.8	3257.9	3237.5	3273.7	3561.8	4213.9	5071.6	5136.0
30°	3707.6	3674.8	3656.8	3552.8	3479.3	3485.0	3729.1	4364.2	5407.2	5511.1
32.5°	4198.0	4147.2	4098.6	3928.0	3793.5	3749.4	3944.9	4572.1	5771.0	5937.2
35°	4747.2	4706.6	4654.6	4391.3	4184.5	4082.8	4236.5	4862.5	6197.1	6460.4
37.5°	5276.1	5241.1	5265.9	4911.1	4644.4	4496.4	4618.4	5252.4	6722.5	7111.2
40°	5823.0	5795.9	5799.3	5460.3	5149.5	4983.4	5081.7	5741.7	7324.8	7885.3
42.5°	6417.4	6397.1	6329.3	6028.7	5679.5	5524.7	5615.1	6306.7	7971.2	8766.7
45°	7083.0	7070.6	7007.3	6662.6	6262.6	6088.6	6210.6	6930.4	8621.0	9596.2
47.5°	7658.2	7668.4	7660.4	7370.0	6955.3	6699.9	6845.7	7581.3	9225.5	10375.9
50°	7935.0	7988.1	8066.1	7975.7	7718.1	7458.2	7486.4	8209.6	9801.8	11107.0
52.5°	7790.4	7891.0	8103.4	8248.1	8347.5	8293.3	8217.5	8833.4	10344.3	11767.0
55°	7251.4	7392.6	7745.2	8094.4	8601.8	8996.1	9095.6	9525.0	10873.1	12347.8
57.5°	6269.4	6498.8	6815.2	7521.4	8375.7	9336.3	10119.4	10484.4	11433.6	12968.2
60°	4585.6	4893.0	5286.3	6337.2	7584.7	9154.3	10990.6	11957.9	12230.3	13771.6
62.5°	2934.7	3124.5	3486.1	4476.0	5910.0	8222.1	11257.3	13799.9	13580.6	15089.2
65°	2009.2	2131.2	2462.3	3018.3	3820.6	6120.2	10543.1	15180.8	15725.4	17177.5
67.5°	1460.0	1552.7	1835.2	2322.2	2489.4	3621.7	8181.4	15117.5	17810.3	19329.1
70°	1064.5	1130.0	1367.3	1835.2	1915.4	2014.8	4956.3	12850.6	17765.1	19900.9
72.5°	788.8	834.0	993.3	1423.8	1550.4	1360.6	2453.3	9339.7	15265.5	18000.2
75°	570.7	604.6	722.1	1089.3	1240.8	1036.2	1223.8	5458.0	10648.2	12661.9
77.5°	436.2	462.2	539.0	797.8	993.3	777.5	759.4	2510.9	5049.0	5073.8
80°	350.3	367.3	409.1	561.6	761.6	582.0	495.0	1013.6	1595.6	1350.4
82.5°	257.6	285.9	345.8	394.4	544.7	401.2	301.7	511.9	606.8	522.1
85°	146.9	166.1	209.1	282.5	348.0	245.2	172.9	227.1	282.5	231.7
87.5°	52.0	67.8	73.5	110.7	151.4	101.7	66.7	65.5	92.7	68.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940525
 CATALOG NUMBER: GALN-SB3C-850-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3122.3	0°	3122.3	3122.3	3122.3	3122.3	3122.3	3122.3	3122.3	3122.3	3122.3	3122.3
3156.2	2.5°	3144.9	3139.2	3116.6	3086.1	3054.5	3023.9	3013.8	2992.3	2977.6	2969.7
3229.6	5°	3208.1	3190.1	3137.0	3069.1	2998.0	2921.1	2866.9	2817.2	2781.0	2747.1
3330.2	7.5°	3298.5	3266.9	3175.4	3056.7	2930.2	2802.5	2707.5	2635.2	2586.6	2555.0
3447.7	10°	3403.6	3355.0	3214.9	3037.5	2842.0	2658.9	2547.1	2484.9	2454.4	2437.5
3582.2	12.5°	3524.5	3455.6	3255.6	2993.4	2707.5	2498.5	2421.6	2403.6	2404.7	2405.8
3751.7	15°	3673.7	3577.7	3288.4	2897.4	2532.4	2375.3	2361.8	2391.1	2421.6	2436.3
3943.8	17.5°	3842.1	3706.5	3294.0	2739.2	2360.6	2296.2	2339.2	2402.4	2448.8	2469.1
4158.5	20°	4022.9	3837.6	3253.3	2515.4	2219.4	2231.8	2308.6	2390.0	2440.9	2466.8
4403.7	22.5°	4229.7	3977.7	3156.2	2280.4	2104.1	2161.7	2252.1	2331.2	2384.4	2410.3
4691.9	25°	4465.9	4134.8	3003.6	2082.6	2004.7	2082.6	2173.0	2238.6	2281.5	2305.3
5013.9	27.5°	4728.0	4298.6	2800.2	1925.6	1917.7	2001.3	2075.9	2126.7	2149.3	2167.4
5356.3	30°	4991.3	4447.8	2553.9	1806.9	1841.9	1921.0	1974.2	1996.8	2003.5	2006.9
5738.3	32.5°	5276.1	4576.6	2295.1	1708.6	1769.6	1843.1	1874.7	1884.9	1853.2	1831.8
6201.6	35°	5620.7	4714.5	2042.0	1630.6	1698.4	1761.7	1771.9	1762.8	1725.5	1681.5
6782.4	37.5°	6046.8	4886.2	1839.7	1575.3	1631.8	1673.6	1661.1	1658.9	1662.3	1610.3
7480.8	40°	6568.8	5110.0	1691.6	1532.3	1577.5	1586.6	1551.5	1570.7	1587.7	1508.6
8246.9	42.5°	7148.5	5380.1	1597.9	1502.9	1532.3	1510.8	1456.6	1478.1	1475.8	1371.9
9016.5	45°	7739.5	5673.9	1565.1	1481.5	1490.5	1447.6	1387.7	1393.3	1345.9	1252.1
9754.4	47.5°	8327.2	5989.1	1585.4	1463.4	1438.5	1389.9	1343.6	1318.7	1248.7	1178.6
10461.8	50°	8903.5	6320.2	1660.0	1427.2	1367.3	1339.1	1305.2	1261.1	1186.5	1126.6
11130.7	52.5°	9438.0	6653.6	1743.6	1367.3	1278.1	1295.0	1273.5	1222.7	1149.2	1088.2
11763.6	55°	9944.2	6986.9	1776.4	1284.8	1194.4	1256.6	1244.2	1150.4	1062.2	1012.5
12425.8	57.5°	10495.7	7388.1	1740.2	1179.7	1126.6	1212.5	1165.1	1061.1	1010.2	973.0
13288.0	60°	11259.6	8017.5	1662.3	1049.8	1062.2	1147.0	1065.6	1022.7	967.3	925.5
14580.7	62.5°	12528.6	9191.6	1536.8	921.0	986.5	1049.8	1018.2	975.2	918.7	878.0
16791.0	65°	14404.4	10823.4	1300.7	820.4	901.8	954.9	967.3	924.4	865.6	822.7
18727.9	67.5°	15986.5	11847.2	984.3	736.8	814.7	878.0	913.1	871.2	809.1	767.3
19181.0	70°	15899.5	11103.6	751.5	654.3	737.9	802.3	847.5	814.7	748.1	708.5
17422.7	72.5°	14121.9	9288.8	608.0	570.7	659.9	723.2	777.5	752.6	684.8	646.4
12763.6	75°	10374.8	6593.7	485.9	485.9	562.8	640.7	700.6	684.8	622.6	595.5
5358.6	77.5°	4373.2	2766.3	380.8	403.4	467.8	550.3	624.9	630.6	576.3	610.2
1417.1	80°	1162.8	762.8	290.4	317.5	367.3	454.3	543.5	541.3	482.5	450.9
526.6	82.5°	443.0	300.6	206.8	223.7	265.6	348.0	430.5	444.1	385.3	333.4
206.8	85°	170.6	128.8	127.7	134.5	154.8	230.5	325.4	336.7	290.4	246.3
57.6	87.5°	44.1	38.4	47.5	45.2	71.2	123.2	186.5	193.2	177.4	102.8
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>
3122.3
2978.7
2760.7
2561.8
2442.0
2408.1
2435.2
2473.6
2473.6
2417.1
2312.0
2174.2
2014.8
1838.6
1683.7
1613.7
1510.8
1370.7
1255.5
1178.6
1122.1
1089.3
1008.0
969.6
923.2
878.0
824.9
768.4
711.9
646.4
587.6
553.7
419.2
333.4
254.3
146.9
0.0

F REPORT)