

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: P949721

Luminaire Tested: **GALN-SB4B-850-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949721
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-850-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16628 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

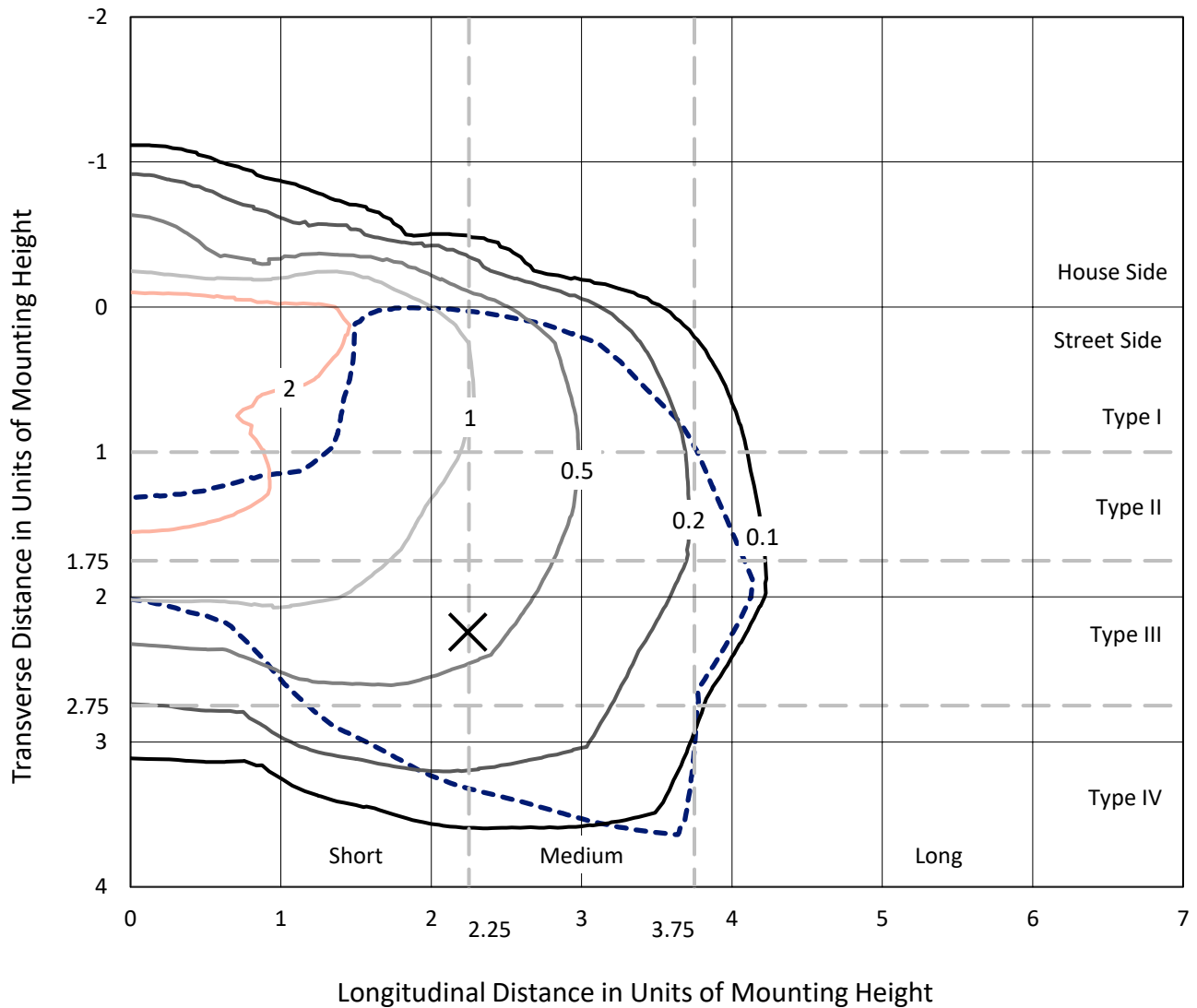
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949721
 CATALOG NUMBER: GALN-SB4B-850-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

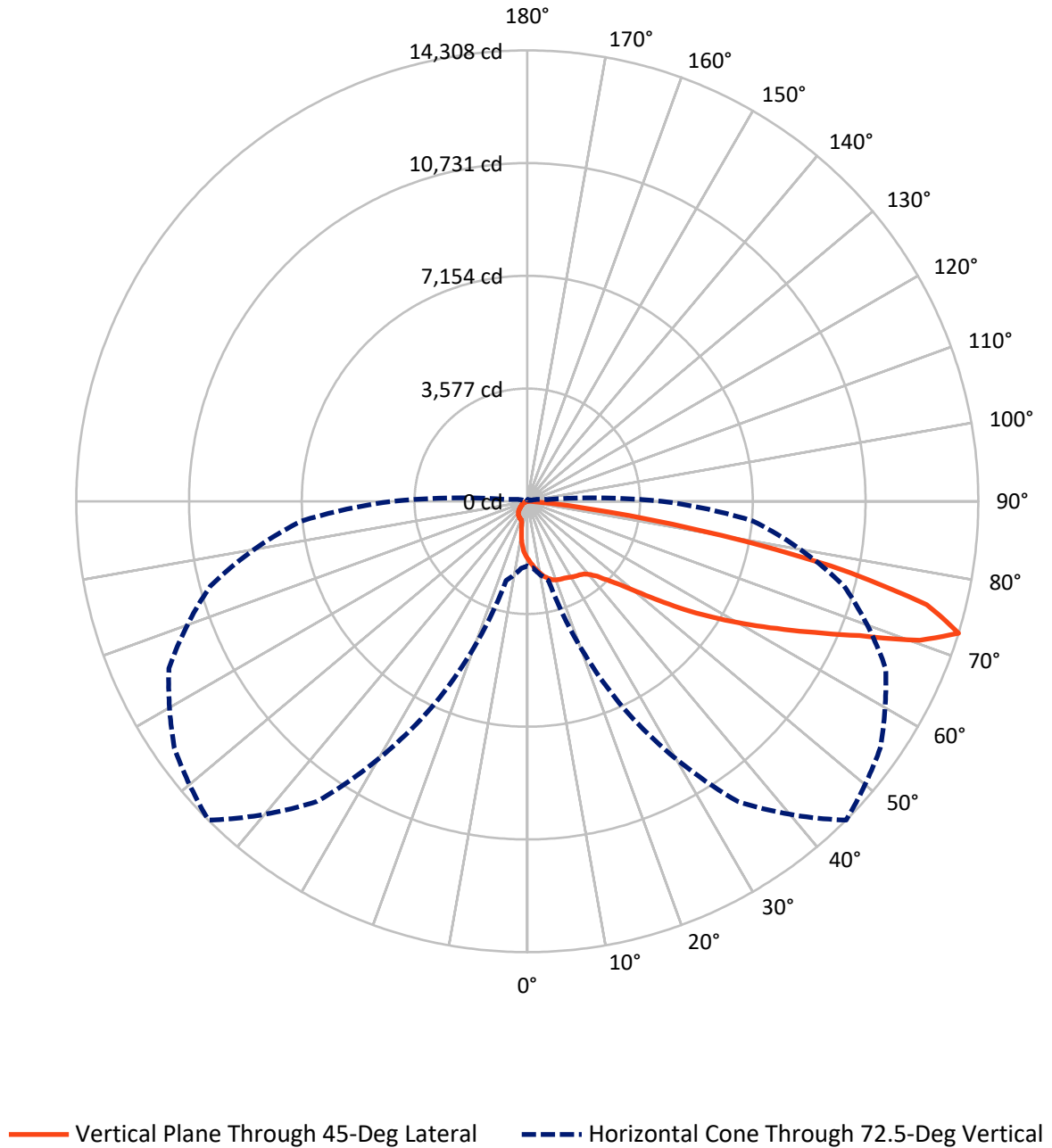
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - N/A

REPORT NUMBER: P949721
CATALOG NUMBER: GALN-SB4B-850-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P949721
 CATALOG NUMBER: GALN-SB4B-850-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1747.1	0.0	1747.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	14880.9	0.0	14880.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	16628.0	0.0	16628.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	1.0
10°-20°	501.6	3.0
20°-30°	823.7	5.0
30°-40°	1168.2	7.0
40°-50°	1931.0	11.6
50°-60°	3468.8	20.9
60°-70°	4816.6	29.0
70°-80°	3493.8	21.0
80°-90°	252.6	1.5
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°	16628.0	100.0
0°-180°	16628.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949721

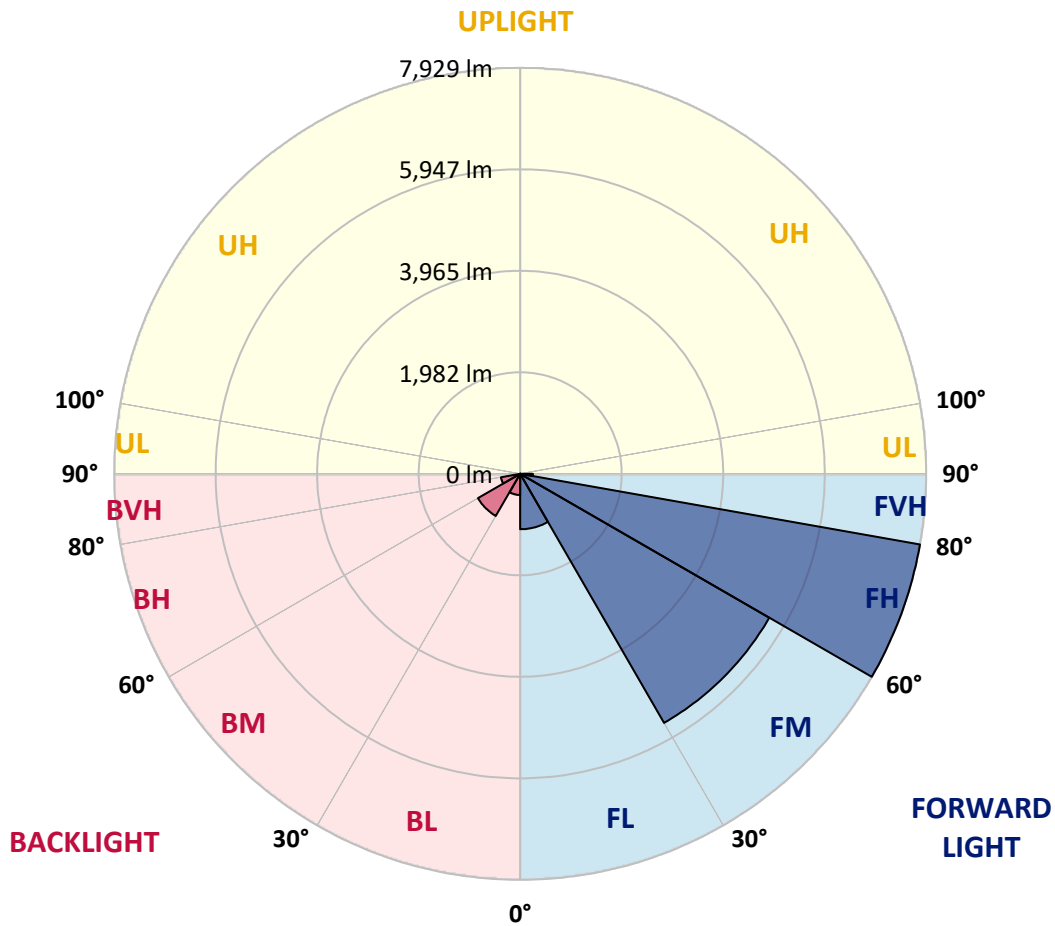
CATALOG NUMBER: GALN-SB4B-850-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1083.1	6.5			
FM (30°-60°)	5617.8	33.8			
FH (60°-80°)	7929.4	47.7			G4/12000
FVH (80°-90°)	250.5	1.5			G3/500
BL (0°-30°)	413.8	2.5	B1/500		
BM (30°-60°)	950.2	5.7	B1/1000		
BH (60°-80°)	381.0	2.3	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short



REPORT NUMBER: P949721
 CATALOG NUMBER: GALN-SB4B-850-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1821.6	1821.6	1821.6	1821.6	1821.6	1821.6	1821.6	1821.6	1821.6	1821.6
2.5°	1989.6	1993.0	1990.7	1977.1	1954.4	1941.9	1935.1	1912.4	1897.7	1871.6
5°	2172.3	2186.0	2178.0	2150.8	2107.6	2077.0	2067.9	2021.4	1979.4	1930.6
7.5°	2366.4	2373.2	2358.5	2323.3	2265.4	2213.2	2205.3	2140.6	2073.6	1998.7
10°	2534.4	2542.3	2519.6	2468.6	2402.7	2338.0	2326.7	2255.2	2175.7	2083.8
12.5°	2675.1	2683.1	2653.6	2592.3	2519.6	2452.7	2441.3	2366.4	2279.0	2176.9
15°	2781.8	2796.6	2756.9	2691.0	2612.7	2545.7	2540.1	2466.3	2381.2	2267.7
17.5°	2844.2	2859.0	2821.5	2742.1	2675.1	2618.4	2611.6	2550.3	2470.8	2361.9
20°	2854.5	2868.1	2828.4	2759.1	2703.5	2658.1	2654.7	2610.4	2552.6	2448.1
22.5°	2823.8	2840.8	2804.5	2748.9	2710.3	2686.5	2681.9	2657.0	2624.1	2535.5
25°	2792.0	2805.7	2778.4	2729.6	2709.2	2706.9	2710.3	2705.8	2699.0	2624.1
27.5°	2789.8	2804.5	2773.9	2727.3	2716.0	2739.8	2743.2	2764.8	2770.5	2704.6
30°	2809.1	2819.3	2789.8	2741.0	2735.3	2789.8	2790.9	2829.5	2838.6	2772.7
32.5°	2851.1	2862.4	2832.9	2761.4	2753.4	2829.5	2832.9	2884.0	2898.7	2845.4
35°	2949.8	2963.4	2929.4	2818.1	2789.8	2866.9	2877.2	2937.3	2966.8	2922.6
37.5°	3196.1	3156.4	3109.8	2932.8	2872.6	2926.0	2943.0	3013.4	3065.6	3014.5
40°	3807.8	3683.0	3537.7	3128.0	3017.9	3051.9	3065.6	3135.9	3207.4	3157.5
42.5°	4726.0	4578.5	4344.7	3577.4	3236.9	3254.0	3264.2	3325.5	3426.5	3386.8
45°	5544.3	5491.0	5252.7	4344.7	3646.7	3562.7	3575.2	3606.9	3755.6	3740.9
47.5°	6173.1	6142.5	5958.6	5225.4	4339.0	3940.6	3975.8	3990.6	4205.1	4257.3
50°	6656.6	6645.3	6480.7	6008.6	5243.6	4497.9	4510.4	4478.6	4799.8	4929.2
52.5°	7112.9	7151.5	7030.0	6736.1	6209.4	5227.7	5225.4	5075.6	5509.2	5704.4
55°	7524.9	7538.5	7551.0	7478.3	7181.0	6058.5	6036.9	5791.8	6332.0	6534.0
57.5°	7911.9	7917.6	8028.8	8177.5	8192.2	6950.6	6910.9	6616.9	7230.9	7375.1
60°	8171.8	8197.9	8432.9	8846.0	9026.4	7871.0	7849.5	7549.8	8145.7	8212.7
62.5°	7797.3	7956.2	8548.6	9368.1	9814.1	8891.4	8881.2	8599.7	9108.2	9053.7
65°	6311.6	6580.6	7622.5	9721.0	10587.0	10030.9	10045.7	9746.0	10096.7	9919.7
67.5°	4415.0	4698.8	5931.4	9749.4	11450.7	11369.0	11454.2	10984.3	11146.6	10749.3
70°	3053.1	3199.5	4001.9	9138.8	12123.8	13212.2	13210.0	12505.1	12190.8	11127.3
72.5°	2053.2	2129.2	2599.1	7250.2	11628.9	14307.5	14241.6	13667.4	12542.6	10406.6
75°	866.0	921.6	1203.1	4074.6	9200.1	13089.7	12911.5	12078.4	11144.3	8194.5
77.5°	274.7	298.5	474.4	1458.4	5067.7	9839.1	9650.7	7543.0	7469.3	4110.9
80°	130.5	152.1	266.7	585.6	1994.1	5351.4	5325.3	3421.9	3213.1	1110.0
82.5°	56.7	67.0	147.5	313.3	892.1	1909.0	1947.6	1164.5	963.6	421.1
85°	18.2	23.8	68.1	144.1	376.8	474.4	468.7	276.9	388.2	229.3
87.5°	0.0	0.0	22.7	32.9	38.6	27.2	30.6	23.8	107.8	63.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949721
 CATALOG NUMBER: GALN-SB4B-850-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1821.6	0°	1821.6	1821.6	1821.6	1821.6	1821.6	1821.6	1821.6	1821.6	1821.6	1821.6
1844.3	2.5°	1830.7	1812.6	1780.8	1751.3	1725.2	1699.1	1683.2	1660.5	1658.2	1658.2
1873.8	5°	1843.2	1813.7	1756.9	1696.8	1627.6	1561.7	1495.9	1432.3	1411.9	1397.2
1921.5	7.5°	1879.5	1833.0	1743.3	1628.7	1497.0	1352.9	1251.9	1142.9	1100.9	1078.2
1985.1	10°	1931.7	1868.2	1732.0	1531.1	1317.7	1121.4	977.2	859.2	813.8	794.5
2054.3	12.5°	1989.6	1911.3	1711.5	1409.6	1121.4	886.4	745.7	691.2	684.4	684.4
2137.2	15°	2058.8	1963.5	1676.4	1266.6	915.9	701.4	651.5	653.7	660.6	665.1
2217.7	17.5°	2130.3	2019.1	1620.7	1106.6	734.3	631.0	632.2	635.6	641.3	645.8
2305.1	20°	2207.5	2074.7	1547.0	936.4	629.9	610.6	614.0	617.4	622.0	624.2
2386.8	22.5°	2290.4	2126.9	1459.6	769.5	594.7	593.6	594.7	598.1	603.8	603.8
2482.2	25°	2378.9	2184.8	1359.7	648.1	576.6	576.6	578.8	581.1	585.6	585.6
2574.1	27.5°	2469.7	2238.2	1254.1	584.5	560.7	559.5	559.5	562.9	565.2	566.4
2664.9	30°	2569.6	2300.6	1148.6	570.9	548.2	542.5	539.1	541.4	543.7	544.8
2760.3	32.5°	2671.7	2360.7	1054.4	576.6	535.7	525.5	514.1	511.9	511.9	516.4
2859.0	35°	2785.2	2426.6	981.8	595.9	528.9	500.5	482.4	472.1	473.3	480.1
2977.0	37.5°	2921.4	2506.0	928.4	612.9	524.4	472.1	442.6	430.2	422.2	430.2
3139.3	40°	3099.6	2622.9	889.8	626.5	518.7	439.2	399.5	379.1	364.3	368.9
3391.3	42.5°	3361.8	2806.8	875.1	627.6	506.2	400.6	355.2	328.0	306.4	307.6
3770.4	45°	3729.5	3097.3	951.1	612.9	479.0	358.7	308.7	272.4	258.8	255.4
4336.7	47.5°	4233.5	3520.7	1127.0	582.2	439.2	317.8	263.3	232.7	222.5	216.8
5080.1	50°	4908.8	4064.3	1322.2	548.2	399.5	279.2	225.9	206.6	199.8	194.1
5962.0	52.5°	5691.9	4615.9	1482.3	514.1	359.8	245.2	202.0	190.7	185.0	180.5
6813.2	55°	6410.3	4996.2	1473.2	477.8	321.2	217.9	185.0	178.2	171.4	166.8
7546.4	57.5°	6857.5	5049.5	1214.4	438.1	276.9	196.4	169.1	164.6	156.6	151.0
8180.9	60°	7062.9	4745.3	851.2	385.9	232.7	175.9	152.1	149.8	139.6	131.7
8781.3	62.5°	7100.4	4180.1	567.5	321.2	194.1	156.6	135.1	131.7	118.0	104.4
9269.3	65°	6948.3	3372.0	392.7	250.8	165.7	136.2	115.8	109.0	94.2	80.6
9385.1	67.5°	6467.1	2367.6	273.5	180.5	140.7	107.8	91.9	89.7	78.3	67.0
8794.9	70°	5585.2	1349.5	182.7	135.1	111.2	73.8	72.6	74.9	63.6	54.5
7185.5	72.5°	4282.3	617.4	113.5	98.7	76.0	49.9	57.9	59.0	48.8	40.9
4483.1	75°	2520.8	264.4	71.5	63.6	38.6	32.9	42.0	43.1	32.9	26.1
1638.9	77.5°	858.0	99.9	45.4	37.5	19.3	18.2	27.2	27.2	18.2	10.2
329.1	80°	195.2	37.5	22.7	14.8	9.1	7.9	9.1	7.9	4.5	1.1
101.0	82.5°	55.6	14.8	9.1	5.7	3.4	3.4	1.1	0.0	0.0	0.0
35.2	85°	15.9	6.8	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
12.5	87.5°	6.8	1.1	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>
1821.6
1663.9
1404.0
1081.6
794.5
684.4
665.1
645.8
625.4
606.1
586.8
567.5
547.1
519.8
483.5
427.9
366.6
303.0
250.8
213.4
192.9
179.3
164.6
149.8
129.4
97.6
76.0
63.6
49.9
36.3
22.7
7.9
0.0
0.0
0.0
0.0
0.0

F REPORT)