

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: P950454

Luminaire Tested: **GALN-SB4D-927-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-927-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20667 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

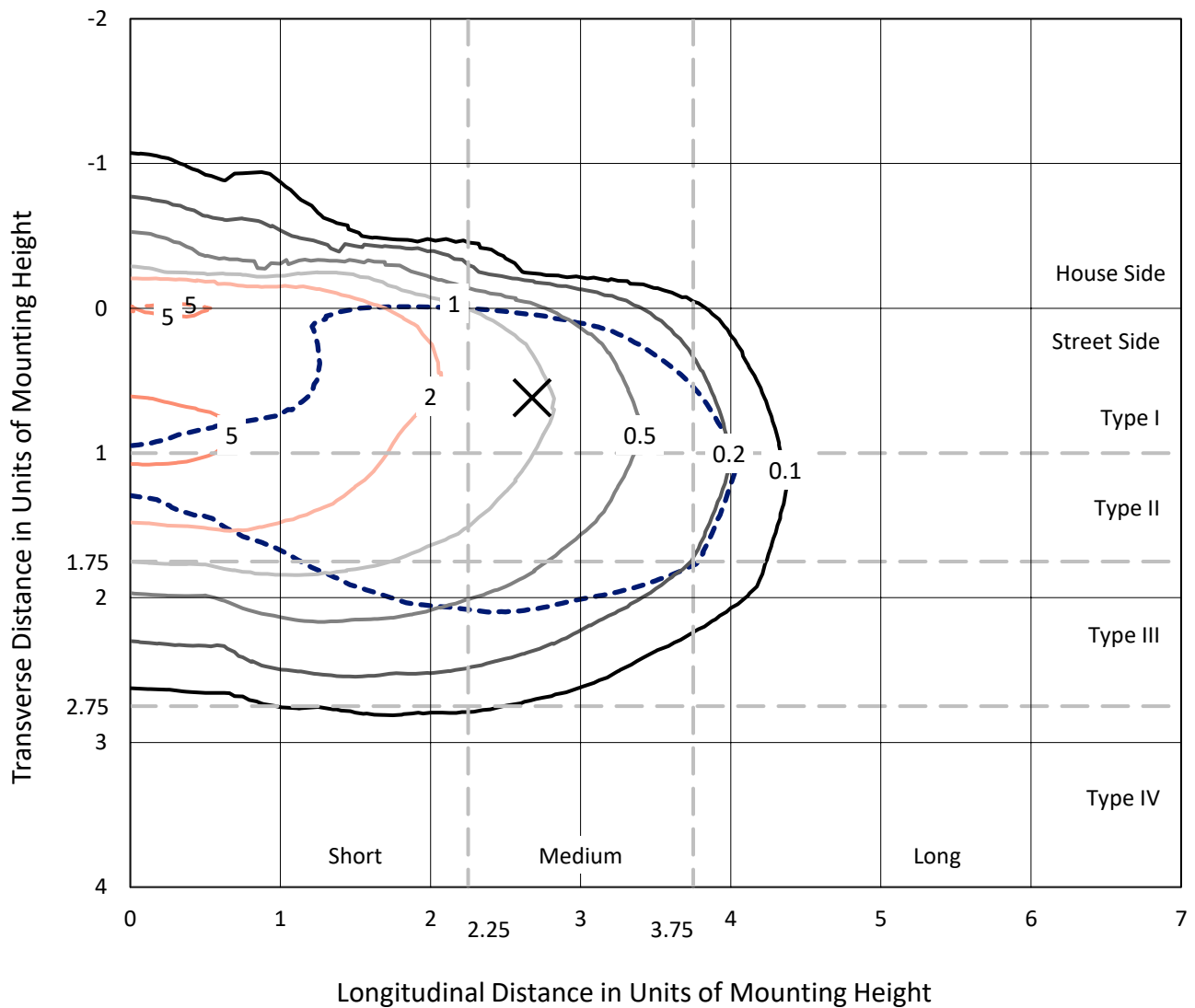
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950454
 CATALOG NUMBER: GALN-SB4D-927-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

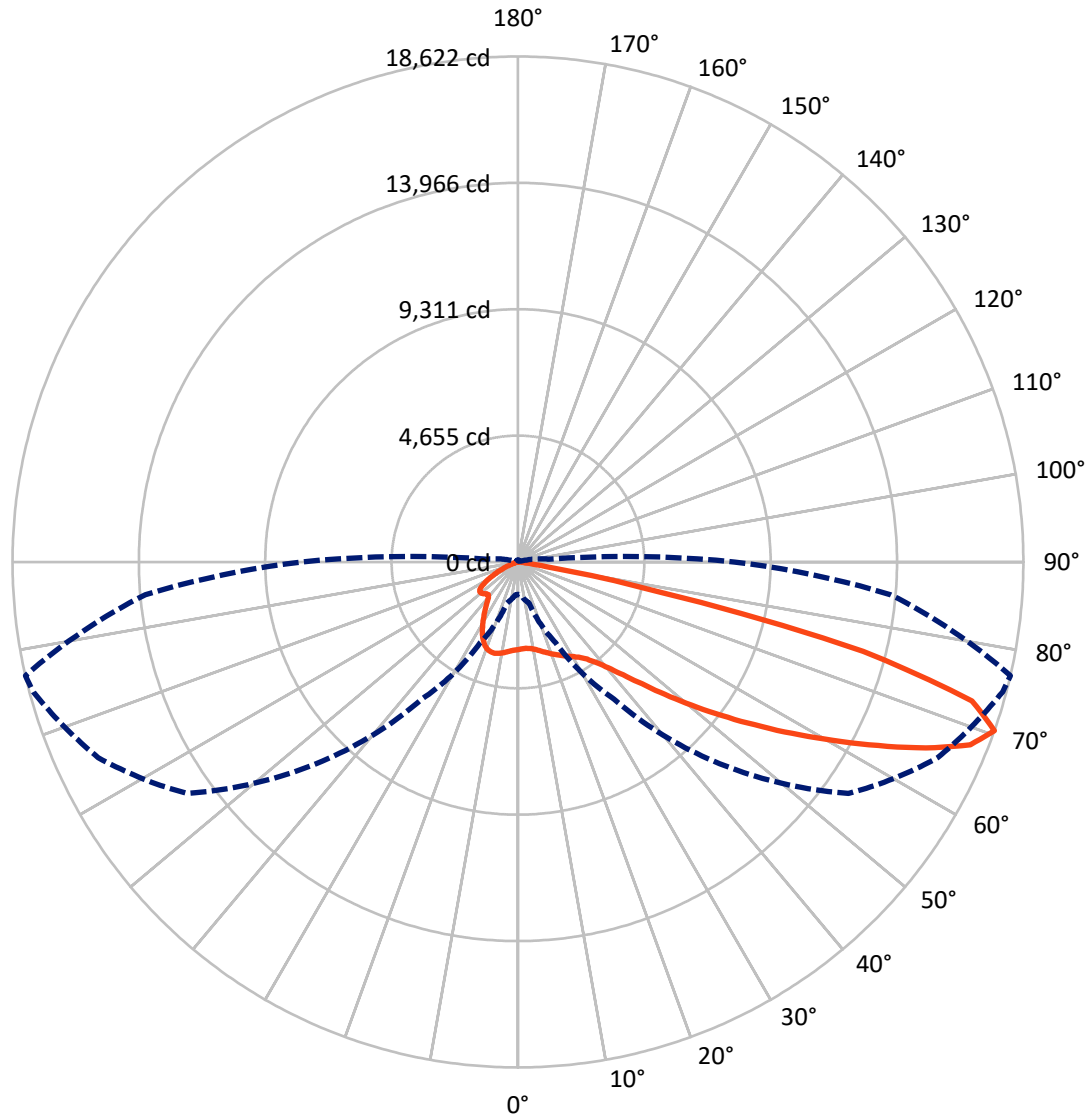
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P950454
CATALOG NUMBER: GALN-SB4D-927-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P950454
 CATALOG NUMBER: GALN-SB4D-927-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2178.6	0.0	2178.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	18488.4	0.0	18488.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	20667.0	0.0	20667.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.8	1.3
10°-20°	659.5	3.2
20°-30°	1020.1	4.9
30°-40°	1851.1	9.0
40°-50°	3494.1	16.9
50°-60°	5048.7	24.4
60°-70°	5374.2	26.0
70°-80°	2848.0	13.8
80°-90°	93.5	0.5
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°	20667.0	100.0
0°-180°	20667.0	100.0



REPORT NUMBER: P950454

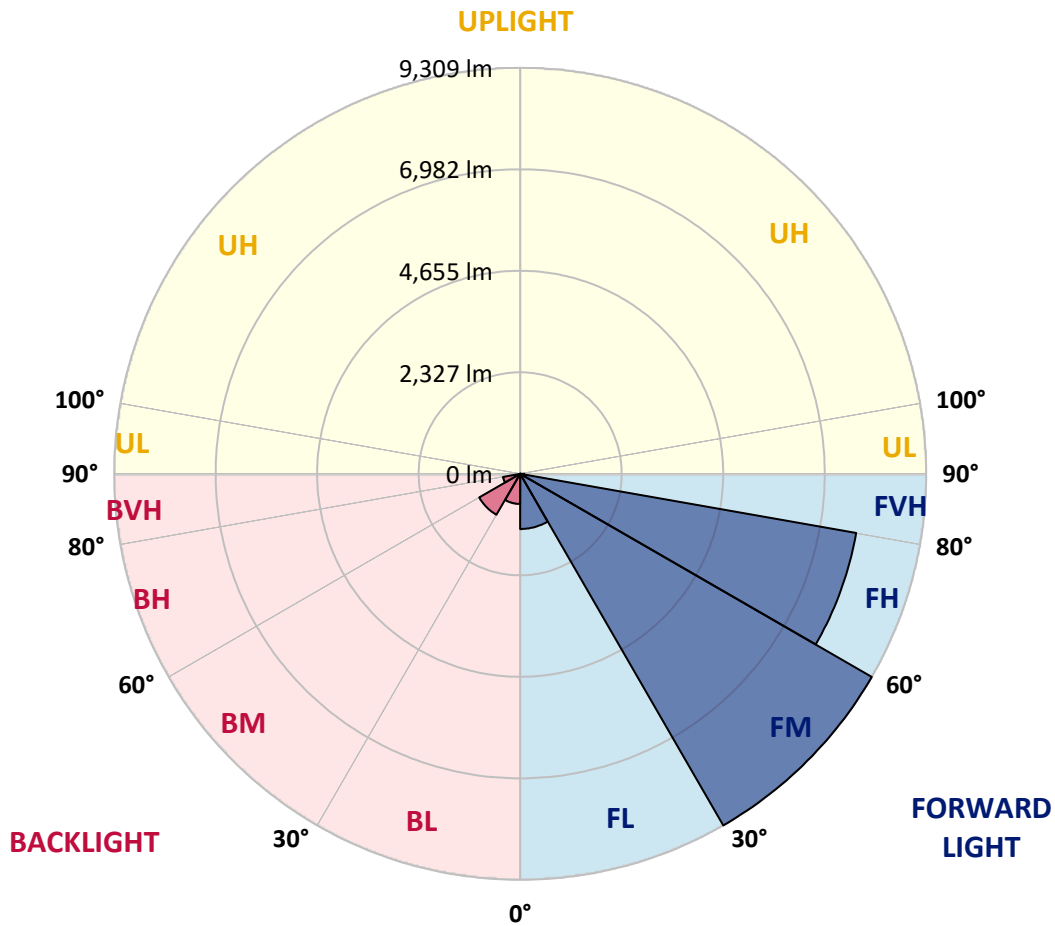
CATALOG NUMBER: GALN-SB4D-927-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1265.3	6.1			
FM (30°-60°)	9309.3	45.0			
FH (60°-80°)	7822.8	37.9			G4/12000
FVH (80°-90°)	91.0	0.4			G1/100
BL (0°-30°)	692.2	3.3	B2/1000		
BM (30°-60°)	1084.5	5.2	B2/2500		
BH (60°-80°)	399.4	1.9	B1/500		G1/500
BVH (80°-90°)	2.5	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 III Medium



REPORT NUMBER: P950454
 CATALOG NUMBER: GALN-SB4D-927-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3223.7	3223.7	3223.7	3223.7	3223.7	3223.7	3223.7	3223.7	3223.7	3223.7
2.5°	3026.6	3054.0	3050.1	3068.4	3074.9	3101.0	3127.1	3162.3	3201.5	3200.2
5°	2855.6	2883.0	2889.6	2914.4	2945.7	2986.1	3039.7	3110.1	3183.2	3195.0
7.5°	2653.3	2682.0	2699.0	2748.6	2806.0	2889.6	2977.0	3080.1	3201.5	3218.5
10°	2451.0	2477.1	2499.3	2569.8	2661.2	2785.2	2927.4	3076.2	3239.3	3264.1
12.5°	2325.7	2350.5	2375.3	2436.7	2550.2	2701.6	2894.8	3094.5	3302.0	3337.2
15°	2281.4	2303.6	2323.1	2378.0	2483.7	2655.9	2888.3	3132.3	3381.6	3428.6
17.5°	2287.9	2299.6	2312.7	2354.5	2457.6	2635.1	2900.0	3197.6	3475.6	3517.3
20°	2325.7	2332.3	2333.6	2362.3	2453.7	2632.5	2923.5	3260.2	3564.3	3620.4
22.5°	2374.0	2376.6	2374.0	2393.6	2478.4	2652.0	2954.8	3335.9	3663.5	3715.7
25°	2599.8	2550.2	2487.6	2449.7	2520.2	2689.9	3001.8	3437.7	3771.8	3822.7
27.5°	3300.7	3158.4	2933.9	2682.0	2606.4	2744.7	3067.1	3540.8	3881.5	3927.1
30°	4438.8	4252.1	3871.0	3303.3	2883.0	2859.5	3151.9	3643.9	3997.6	4047.2
32.5°	5579.4	5533.8	5093.9	4308.2	3505.6	3115.4	3292.9	3783.6	4151.6	4190.8
35°	6733.2	6640.5	6280.3	5503.7	4464.9	3636.1	3527.8	3966.3	4353.9	4398.3
37.5°	7616.8	7560.6	7337.5	6697.9	5602.9	4440.1	3929.8	4249.5	4647.6	4697.2
40°	8397.2	8371.1	8295.4	7873.9	6875.4	5492.0	4554.9	4688.0	5054.8	5113.5
42.5°	9010.6	9072.0	9115.0	8997.6	8187.1	6692.7	5395.4	5304.1	5622.5	5682.5
45°	9638.4	9659.3	9832.9	10002.5	9489.6	7948.3	6342.9	6025.8	6328.6	6403.0
47.5°	10041.7	10125.2	10430.6	10729.5	10584.6	9193.4	7361.0	6878.1	7146.9	7286.6
50°	10071.7	10229.6	10649.9	11170.6	11382.1	10378.4	8467.7	7849.1	8134.9	8288.9
52.5°	9571.8	9817.2	10468.5	11230.7	11812.8	11382.1	9612.3	8820.1	9186.8	9387.8
55°	7338.8	7659.8	9785.9	10904.4	11829.7	12143.0	10726.9	9831.6	10358.8	10585.9
57.5°	6393.8	6555.7	7693.8	10338.0	11515.2	12449.7	11734.5	10794.8	11634.0	11915.9
60°	5319.7	5532.5	6452.6	9411.3	11088.4	12479.7	12624.6	12037.2	13016.1	13333.2
62.5°	3615.2	3846.2	4761.1	7819.1	10505.0	12465.3	13354.1	13316.3	14552.2	14892.9
65°	2239.6	2384.5	2987.4	6384.7	9689.3	12481.0	14117.6	14869.4	16173.2	16519.1
67.5°	1769.8	1836.3	2150.9	4902.1	8283.7	12128.6	14879.8	16329.8	17698.9	17973.0
70°	1189.0	1229.4	1564.9	3286.3	6162.8	10502.4	14865.5	17063.3	18484.6	18621.6
72.5°	626.5	657.8	914.9	1521.8	3722.2	7465.4	12530.6	16186.3	17702.8	17496.6
75°	313.2	365.4	616.0	772.6	1589.7	4163.4	7781.2	12761.6	13933.6	13134.9
77.5°	237.5	287.1	509.0	509.0	553.4	1401.7	3295.5	6960.3	6419.9	5345.8
80°	151.4	195.8	445.1	385.0	231.0	356.3	858.8	1949.9	1363.9	1037.6
82.5°	88.7	127.9	370.7	254.5	129.2	131.8	242.8	415.0	353.7	275.4
85°	35.2	83.5	254.5	100.5	50.9	32.6	73.1	88.7	73.1	54.8
87.5°	0.0	19.6	44.4	0.0	3.9	2.6	5.2	6.5	6.5	5.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950454
 CATALOG NUMBER: GALN-SB4D-927-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3223.7	0°	3223.7	3223.7	3223.7	3223.7	3223.7	3223.7	3223.7	3223.7	3223.7	3223.7
3226.3	2.5°	3238.0	3240.6	3248.5	3249.8	3231.5	3208.0	3198.9	3195.0	3179.3	3178.0
3247.2	5°	3277.2	3288.9	3277.2	3243.3	3162.3	3048.8	2962.7	2892.2	2828.2	2808.6
3319.0	7.5°	3355.5	3367.2	3332.0	3198.9	2995.3	2769.5	2565.9	2422.3	2293.1	2244.8
3406.4	10°	3467.7	3483.4	3372.5	3103.6	2743.4	2380.6	2036.0	1793.3	1604.0	1527.0
3525.2	12.5°	3608.7	3615.2	3394.7	2958.7	2415.8	1897.7	1409.5	1149.8	981.5	918.8
3668.7	15°	3764.0	3754.9	3397.3	2761.7	1969.4	1341.7	920.1	755.7	687.8	666.9
3812.3	17.5°	3927.1	3889.3	3345.1	2477.1	1480.0	917.5	682.6	643.4	631.7	626.5
3954.6	20°	4087.7	4002.8	3249.8	2105.2	1062.4	685.2	619.9	608.2	601.7	599.1
4098.1	22.5°	4233.9	4089.0	3086.6	1673.2	771.3	605.6	586.0	575.6	563.8	558.6
4237.8	25°	4376.1	4138.6	2856.9	1269.9	617.3	566.4	550.8	531.2	515.5	509.0
4387.9	27.5°	4514.5	4169.9	2569.8	939.7	550.8	529.9	501.2	473.8	462.0	459.4
4548.4	30°	4661.9	4180.3	2243.5	700.9	510.3	484.2	442.4	411.1	404.6	405.9
4765.0	32.5°	4842.0	4196.0	1914.6	574.3	476.4	429.4	379.8	347.2	341.9	347.2
5080.9	35°	5057.4	4227.3	1597.5	528.6	446.4	373.3	319.8	292.3	287.1	291.0
5485.5	37.5°	5349.7	4278.2	1301.2	519.4	421.6	326.3	268.9	246.7	246.7	248.0
5981.4	40°	5738.7	4414.0	1036.3	512.9	408.5	291.0	227.1	218.0	221.9	224.5
6613.1	42.5°	6212.4	4702.4	857.5	505.1	394.2	275.4	206.2	202.3	208.8	211.4
7370.1	45°	6743.6	5067.8	794.8	492.0	381.1	285.8	197.1	191.9	199.7	201.0
8218.4	47.5°	7293.1	5425.4	787.0	477.7	368.0	301.5	194.5	182.7	191.9	193.2
9124.2	50°	7849.1	5659.1	794.8	455.5	347.2	301.5	195.8	173.6	181.4	185.3
10063.9	52.5°	8409.0	5766.1	789.6	407.2	310.6	283.2	195.8	165.8	173.6	176.2
11079.3	55°	8951.9	5745.2	710.0	335.4	263.6	250.6	190.5	159.2	164.4	165.8
12038.5	57.5°	9381.3	5454.2	562.5	261.0	214.0	208.8	173.6	151.4	155.3	154.0
12918.2	60°	9605.8	4814.6	402.0	201.0	168.4	164.4	152.7	141.0	143.6	137.0
13663.4	62.5°	9608.4	3968.9	268.9	159.2	134.4	130.5	130.5	126.6	124.0	110.9
14240.3	65°	9403.5	3030.5	178.8	126.6	108.3	101.8	109.6	108.3	99.2	80.9
14416.5	67.5°	8938.9	1986.4	135.7	99.2	83.5	79.6	87.4	91.4	84.8	67.9
13774.4	70°	7983.5	1156.3	112.2	77.0	62.6	58.7	70.5	78.3	70.5	54.8
11773.6	72.5°	6631.4	623.9	91.4	57.4	43.1	39.2	56.1	64.0	56.1	40.5
7554.1	75°	4303.0	334.1	70.5	37.8	22.2	24.8	41.8	47.0	39.2	26.1
2217.4	77.5°	1444.8	147.5	44.4	18.3	10.4	10.4	24.8	28.7	18.3	9.1
403.3	80°	322.4	61.3	18.3	7.8	3.9	3.9	5.2	5.2	2.6	0.0
124.0	82.5°	105.7	24.8	7.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0
31.3	85°	40.5	9.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.4	87.5°	15.7	1.3	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>
3223.7
3180.6
2796.9
2225.3
1494.4
899.2
666.9
625.2
596.4
557.3
506.4
456.8
405.9
345.9
289.7
246.7
224.5
211.4
202.3
194.5
186.6
176.2
165.8
154.0
135.7
107.0
78.3
66.6
52.2
39.2
23.5
7.8
0.0
0.0
0.0
0.0
0.0

F REPORT)