

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: P941416

Luminaire Tested: **GALN-SB4D-940-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-940-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23178 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

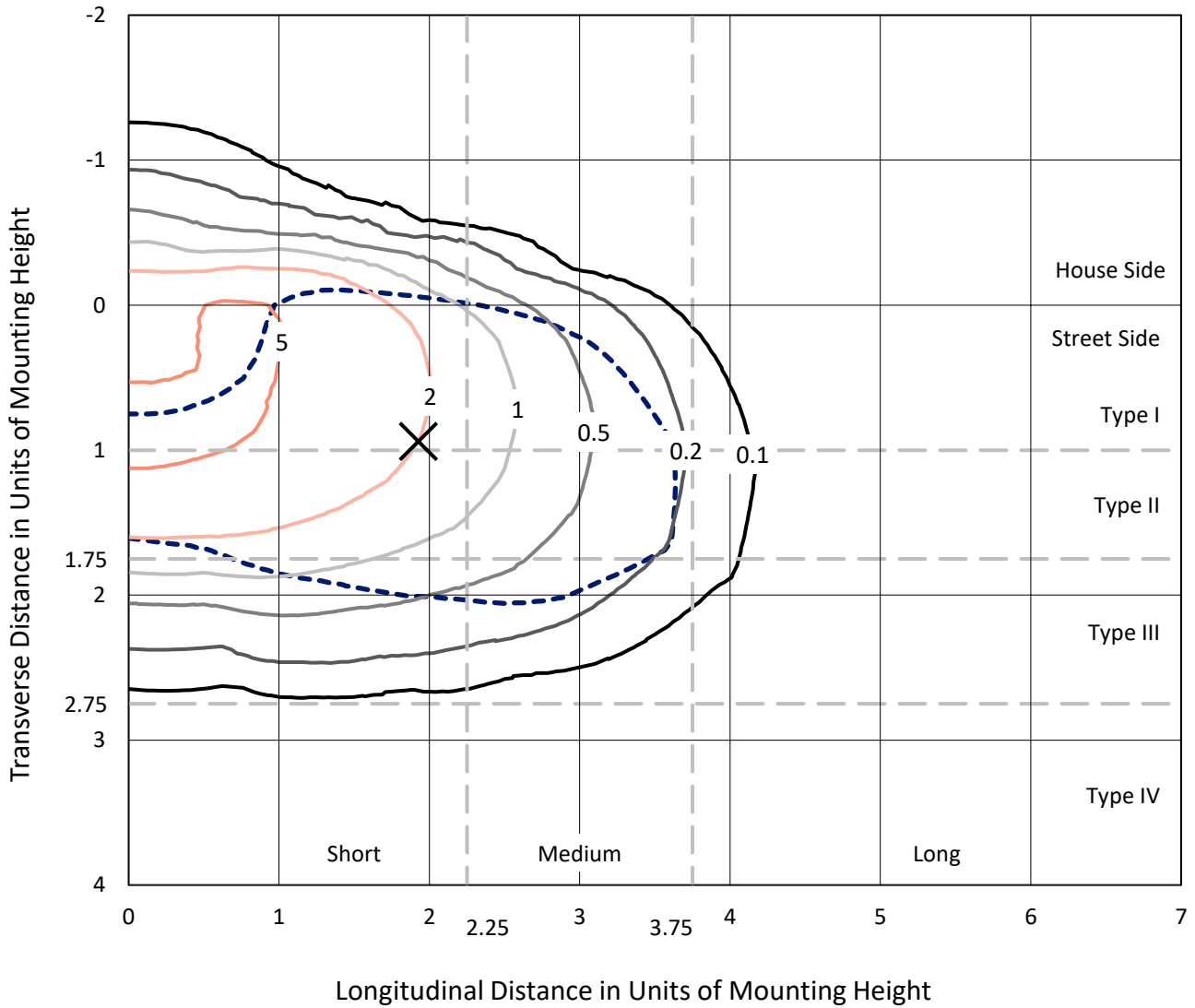
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941416
 CATALOG NUMBER: GALN-SB4D-940-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

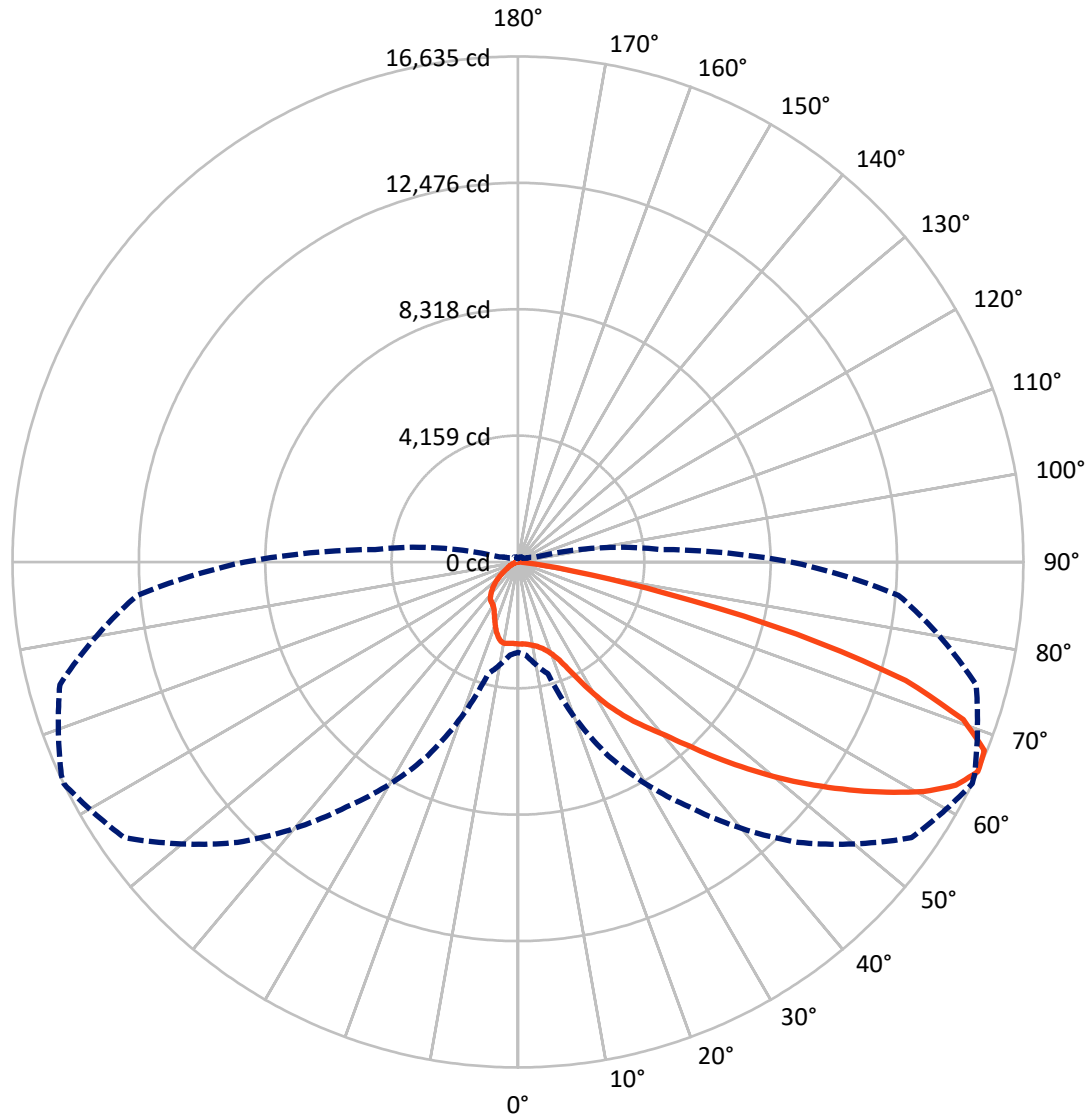
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - N/A

REPORT NUMBER: P941416
CATALOG NUMBER: GALN-SB4D-940-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P941416
 CATALOG NUMBER: GALN-SB4D-940-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3099.6	0.0	3099.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	20078.4	0.0	20078.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	23178.0	0.0	23178.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.7	1.1
10°-20°	674.6	2.9
20°-30°	1278.3	5.5
30°-40°	2586.7	11.2
40°-50°	4406.4	19.0
50°-60°	5992.4	25.9
60°-70°	5627.2	24.3
70°-80°	2254.5	9.7
80°-90°	109.2	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°	23178.0	100.0
0°-180°	23178.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941416

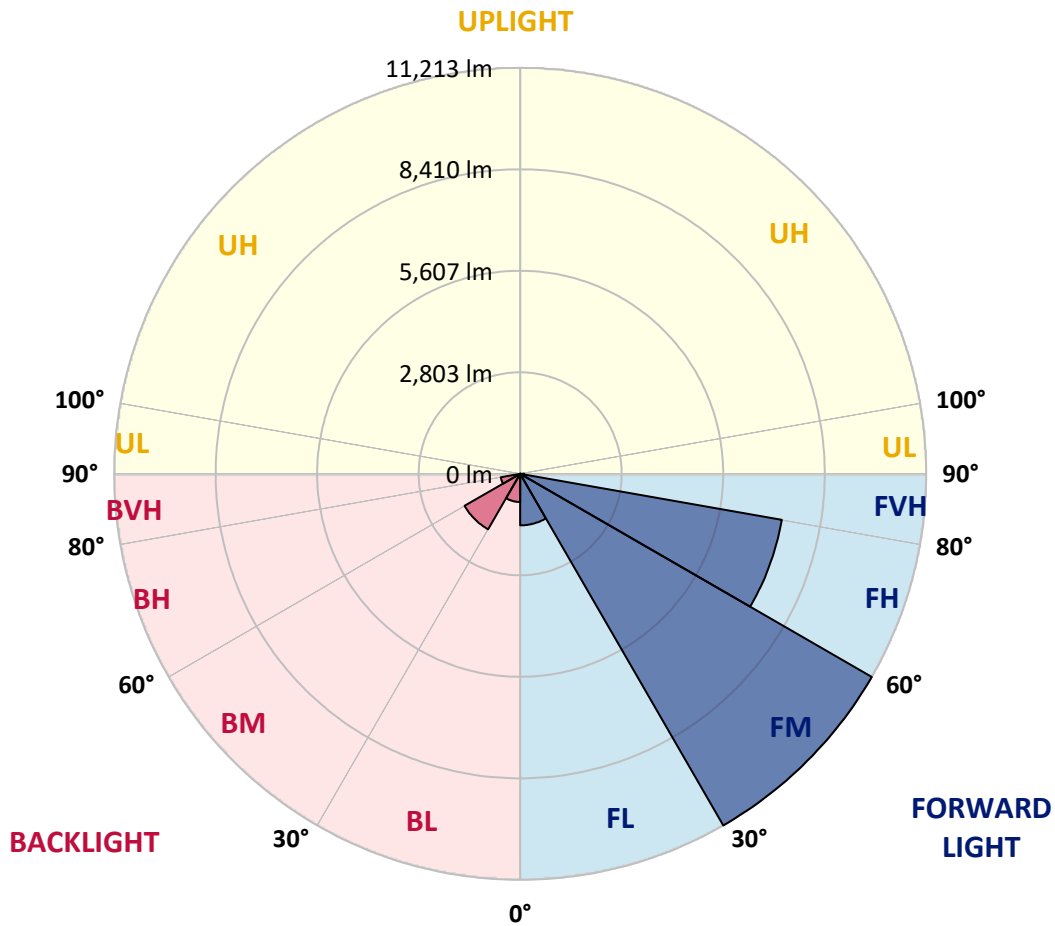
CATALOG NUMBER: GALN-SB4D-940-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1423.4	6.1			
FM (30°-60°)	11213.5	48.4			
FH (60°-80°)	7337.6	31.7			G3/7500
FVH (80°-90°)	103.9	0.4			G2/225
BL (0°-30°)	778.2	3.4	B2/1000		
BM (30°-60°)	1772.0	7.6	B2/2500		
BH (60°-80°)	544.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.3	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-G3

Type III Short



REPORT NUMBER: P941416

CATALOG NUMBER: GALN-SB4D-940-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2695.8	2695.8	2695.8	2695.8	2695.8	2695.8	2695.8	2695.8	2695.8	2695.8
2.5°	2686.5	2705.2	2700.5	2695.8	2694.3	2697.4	2698.9	2697.4	2697.4	2697.4
5°	2635.2	2650.8	2650.8	2661.7	2677.2	2695.8	2709.8	2712.9	2716.0	2720.7
7.5°	2537.4	2549.8	2559.1	2594.8	2633.7	2683.4	2725.4	2747.1	2750.2	2767.3
10°	2470.5	2486.1	2501.6	2538.9	2594.8	2669.4	2740.9	2793.7	2801.5	2841.9
12.5°	2467.4	2483.0	2503.2	2543.6	2608.8	2688.1	2775.1	2851.2	2865.2	2924.3
15°	2500.1	2518.7	2537.4	2587.1	2657.0	2753.3	2846.6	2941.3	2955.3	3039.2
17.5°	2566.9	2591.7	2605.7	2655.4	2730.0	2837.2	2960.0	3068.8	3081.2	3179.1
20°	2698.9	2728.5	2733.1	2773.5	2846.6	2961.5	3107.6	3242.8	3258.3	3370.2
22.5°	2972.4	3014.4	2977.1	2997.3	3062.5	3177.5	3336.0	3506.9	3528.7	3656.1
25°	3454.1	3513.1	3416.8	3382.6	3410.6	3530.2	3729.1	3945.1	3970.0	4072.5
27.5°	4400.4	4324.2	4178.2	4035.2	3951.3	4019.7	4243.4	4510.7	4541.8	4641.2
30°	5439.9	5373.0	5175.7	4858.7	4659.8	4649.0	4855.6	5154.0	5189.7	5284.5
32.5°	6480.9	6417.2	6202.8	5812.8	5467.8	5296.9	5439.9	5770.8	5789.5	5850.1
35°	7504.9	7439.6	7225.2	6825.8	6401.7	6013.2	5985.2	6358.1	6364.4	6428.1
37.5°	8535.0	8480.6	8252.2	7860.7	7442.7	6906.6	6647.2	6914.4	6922.2	6984.3
40°	9270.0	9293.3	9136.3	8833.3	8474.4	7888.6	7389.9	7506.4	7459.8	7563.9
42.5°	9900.8	9947.4	9810.7	9658.4	9450.2	8934.3	8309.7	8289.5	8214.9	8270.9
45°	10446.2	10485.0	10362.3	10326.6	10321.9	9959.9	9315.0	9193.8	9089.7	9078.9
47.5°	10646.6	10721.2	10774.0	10893.7	11126.8	10974.5	10354.5	10166.5	10050.0	9964.5
50°	10722.8	10802.0	10982.3	11330.3	11881.9	11947.2	11389.4	11178.0	11035.1	10879.7
52.5°	10620.2	10761.6	11004.0	11589.8	12390.0	12727.2	12382.2	12197.3	12034.2	11780.9
55°	10015.8	10157.2	10652.8	11586.7	12643.3	13274.1	13320.7	13238.4	13055.0	12655.7
57.5°	8741.7	8951.4	9736.1	11192.0	12638.6	13744.9	14240.6	14299.6	14094.5	13522.7
60°	6976.6	7260.9	8218.0	10317.2	12248.6	13999.7	15047.0	15342.2	15124.7	14377.3
62.5°	4868.1	5197.5	6103.3	8946.8	11356.7	13816.4	15635.9	16181.3	16016.6	15141.8
65°	2969.3	3075.0	3805.3	7040.3	9840.2	13048.8	15817.7	16635.0	16580.6	15609.5
67.5°	1978.0	2066.6	2276.3	4827.7	7638.5	11515.2	15382.6	16555.7	16571.3	15533.3
70°	1191.8	1267.9	1404.6	2807.7	4950.4	9114.6	14035.5	15545.8	15635.9	14515.6
72.5°	491.0	542.3	666.6	1272.6	2563.8	5784.8	11176.5	13347.1	13556.9	12205.1
75°	278.1	304.5	391.6	638.6	1112.5	2695.8	6769.9	9475.1	9784.3	8412.3
77.5°	184.9	197.3	253.3	413.3	626.2	919.8	2893.2	4936.4	5526.9	4594.6
80°	124.3	135.2	174.0	276.6	407.1	394.7	921.4	1828.8	2249.9	1578.7
82.5°	83.9	85.5	124.3	181.8	257.9	191.1	271.9	568.7	714.7	456.8
85°	48.2	46.6	91.7	105.7	115.0	79.2	82.4	170.9	223.7	192.7
87.5°	6.2	9.3	35.7	28.0	15.5	17.1	17.1	29.5	43.5	46.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941416
 CATALOG NUMBER: GALN-SB4D-940-U-T3-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2695.8	0°	2695.8	2695.8	2695.8	2695.8	2695.8	2695.8	2695.8	2695.8	2695.8	2695.8
2698.9	2.5°	2698.9	2697.4	2692.7	2688.1	2677.2	2671.0	2674.1	2671.0	2669.4	2671.0
2719.1	5°	2719.1	2714.5	2702.1	2686.5	2664.8	2638.4	2621.3	2596.4	2573.1	2559.1
2773.5	7.5°	2773.5	2768.9	2751.8	2708.3	2638.4	2528.0	2427.0	2338.5	2271.7	2232.8
2860.5	10°	2860.5	2852.8	2826.4	2730.0	2546.7	2305.8	2105.4	1939.1	1830.4	1779.1
2963.1	12.5°	2963.1	2953.8	2907.2	2709.8	2372.7	1996.6	1720.1	1535.2	1434.2	1389.1
3081.2	15°	3084.3	3071.9	2980.2	2613.5	2119.4	1654.8	1401.5	1263.2	1198.0	1157.6
3231.9	17.5°	3235.0	3213.3	3034.6	2469.0	1844.4	1393.8	1205.7	1101.6	1044.2	1005.3
3429.2	20°	3430.8	3395.1	3078.1	2296.5	1591.1	1229.1	1073.7	986.7	943.2	909.0
3708.9	22.5°	3704.3	3653.0	3130.9	2110.1	1412.4	1115.6	975.8	912.1	876.3	837.5
4098.9	25°	4043.0	3982.4	3196.2	1937.6	1289.7	1017.7	904.3	851.5	809.5	764.5
4610.1	27.5°	4516.9	4408.1	3273.9	1796.2	1184.0	933.8	839.1	780.0	731.8	694.5
5189.7	30°	5045.2	4866.5	3342.2	1710.7	1087.7	856.1	753.6	694.5	649.5	623.1
5710.2	32.5°	5545.5	5303.1	3387.3	1673.4	1000.6	767.6	660.4	596.7	562.5	554.7
6219.9	35°	6017.9	5697.8	3382.6	1637.7	923.0	679.0	568.7	503.4	477.0	481.7
6768.4	37.5°	6561.7	6118.9	3350.0	1581.8	859.3	598.2	489.4	432.0	408.6	410.2
7434.9	40°	7194.1	6605.2	3329.8	1476.1	789.3	523.6	424.2	377.6	360.5	354.3
8137.2	42.5°	7868.4	7076.0	3332.9	1356.5	702.3	456.8	379.1	340.3	324.7	320.1
8918.8	45°	8545.9	7525.1	3337.6	1232.2	610.6	405.5	346.5	313.9	304.5	298.3
9711.2	47.5°	9183.0	7907.3	3250.5	1098.5	520.5	366.7	320.1	298.3	290.6	282.8
10506.8	50°	9776.5	8162.1	3040.8	943.2	449.0	335.6	299.9	284.3	276.6	268.8
11227.8	52.5°	10238.0	8202.5	2694.3	783.1	399.3	312.3	287.5	273.5	264.1	256.4
11810.4	55°	10443.1	7949.2	2201.7	634.0	360.5	292.1	275.0	261.0	250.2	242.4
12268.8	57.5°	10390.3	7416.3	1716.9	509.6	323.2	271.9	259.5	250.2	237.7	225.3
12640.2	60°	10130.8	6703.1	1294.3	424.2	289.0	250.2	242.4	234.6	217.5	198.9
12783.1	62.5°	9681.7	5806.5	923.0	351.2	251.7	225.3	222.2	216.0	191.1	156.9
12571.8	65°	8994.9	4717.3	621.5	292.1	216.0	197.3	198.9	188.0	155.4	116.5
11798.0	67.5°	7991.2	3449.4	397.8	239.3	180.2	164.7	166.3	160.0	132.1	99.4
10331.2	70°	6712.4	2284.1	259.5	181.8	144.5	127.4	136.7	138.3	111.9	80.8
7929.0	72.5°	4920.9	1348.7	181.8	135.2	105.7	88.6	111.9	115.0	90.1	60.6
4770.2	75°	2804.6	640.2	136.7	97.9	65.3	62.2	87.0	87.0	62.2	40.4
2065.0	77.5°	1177.8	267.3	96.3	63.7	37.3	35.7	59.0	54.4	31.1	18.6
503.4	80°	340.3	119.6	51.3	31.1	15.5	14.0	23.3	17.1	7.8	3.1
191.1	82.5°	133.6	52.8	20.2	12.4	6.2	6.2	3.1	0.0	0.0	0.0
108.8	85°	79.2	21.8	9.3	4.7	1.6	0.0	0.0	0.0	0.0	0.0
23.3	87.5°	20.2	4.7	3.1	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

180°
2695.8
2677.2
2562.2
2234.4
1774.4
1384.4
1159.1
1002.2
902.8
831.3
759.8
686.8
618.4
559.4
481.7
416.4
352.7
318.5
298.3
282.8
268.8
254.8
240.8
223.7
195.8
153.8
113.4
94.8
77.7
57.5
37.3
18.6
3.1
0.0
0.0
0.0
0.0

F REPORT)