

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: STREETWORKS

Report Number: P847847

Luminaire Tested: **GLAN-SB4A-850-U-T3-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P847847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB4A-850-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 350mA 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: 12107 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

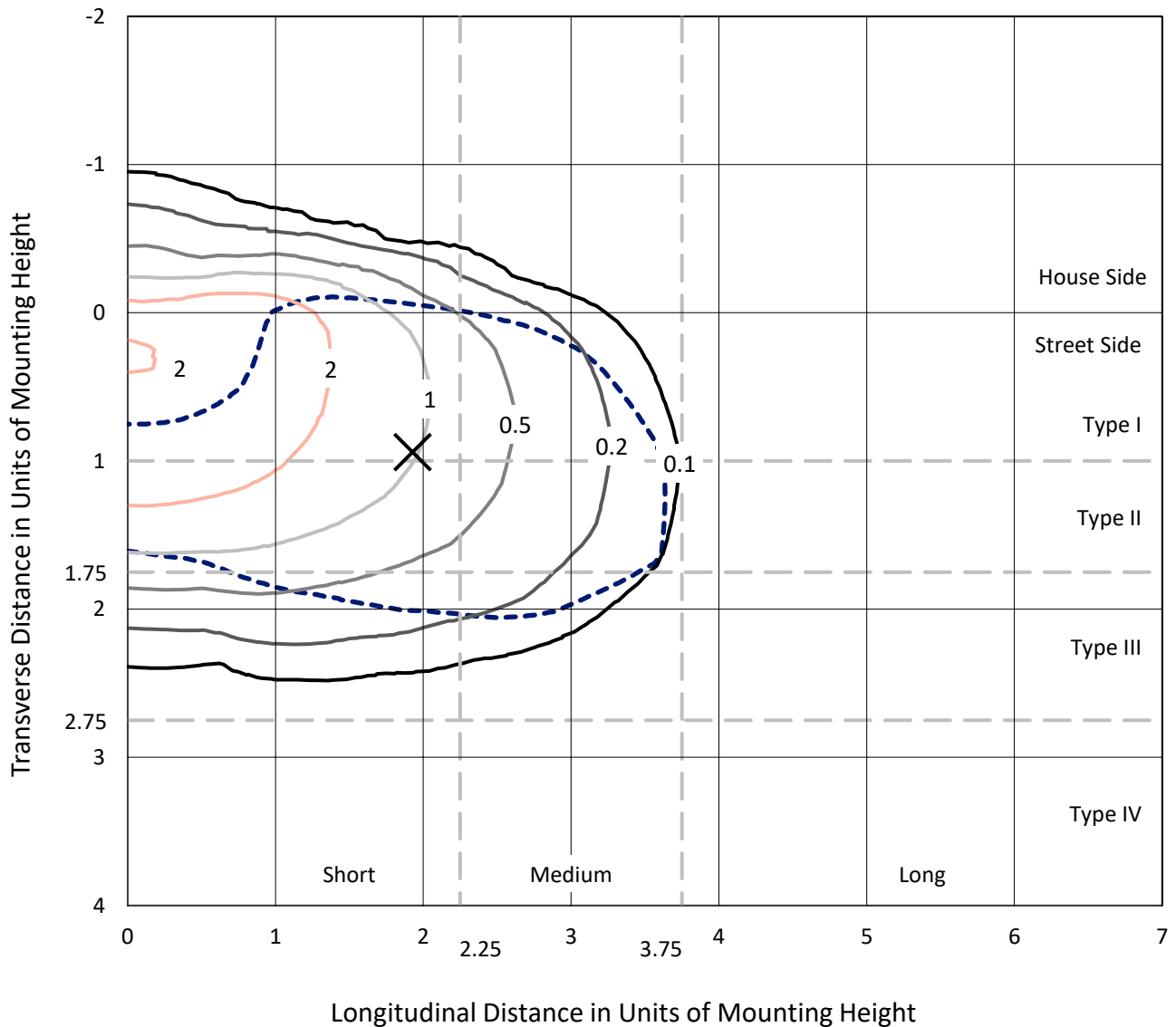
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P847847
 CATALOG NUMBER: GLAN-SB4A-850-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

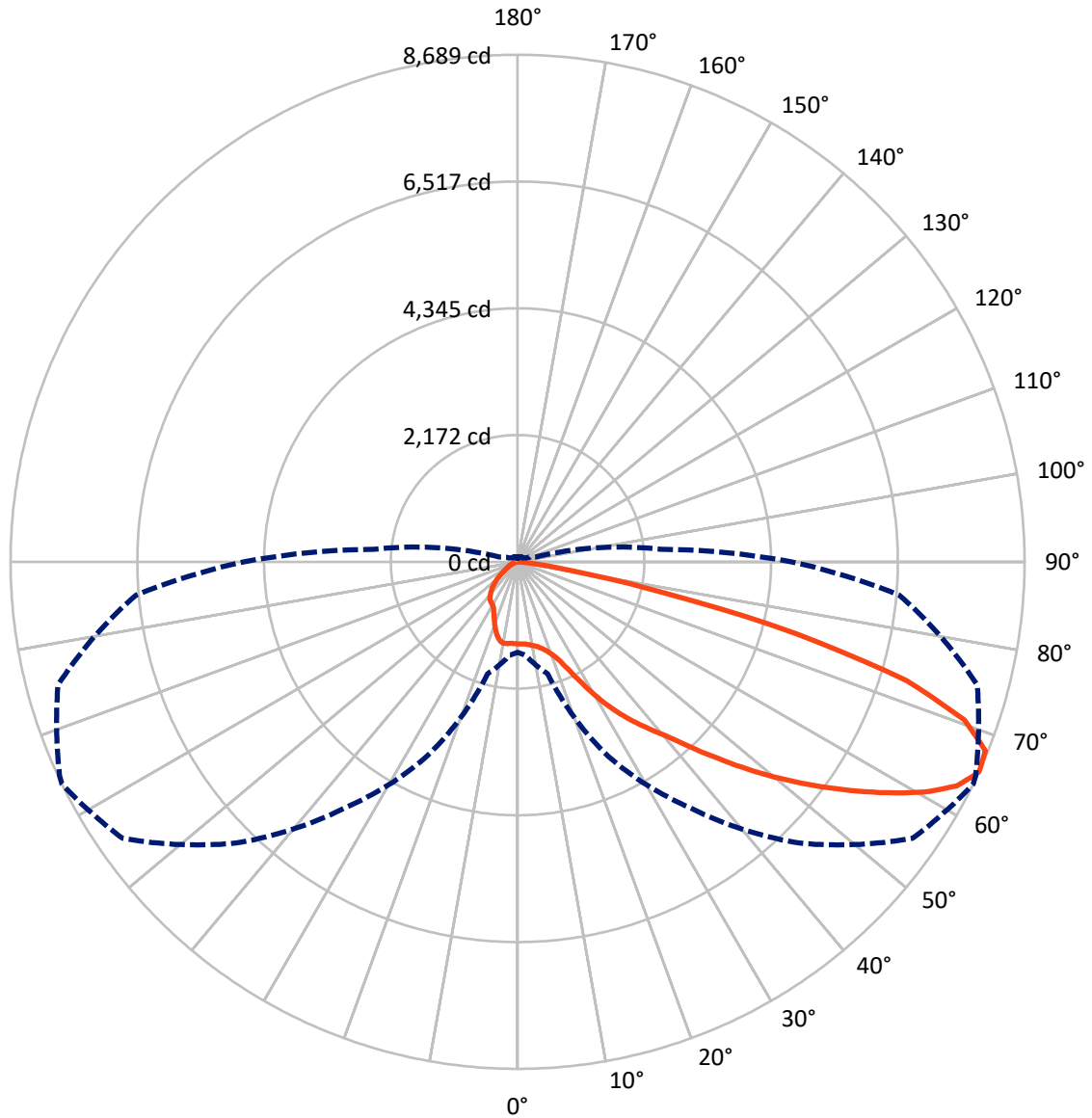
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - N/A

REPORT NUMBER: P847847
CATALOG NUMBER: GLAN-SB4A-850-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P847847
 CATALOG NUMBER: GLAN-SB4A-850-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1619.1	0.0	1619.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	10487.9	0.0	10487.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	12107.0	0.0	12107.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.9	1.1
10°-20°	352.4	2.9
20°-30°	667.7	5.5
30°-40°	1351.2	11.2
40°-50°	2301.7	19.0
50°-60°	3130.1	25.9
60°-70°	2939.3	24.3
70°-80°	1177.6	9.7
80°-90°	57.0	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°	12107.0	100.0
0°-180°	12107.0	100.0

Coefficient of Utilization



REPORT NUMBER: P847847

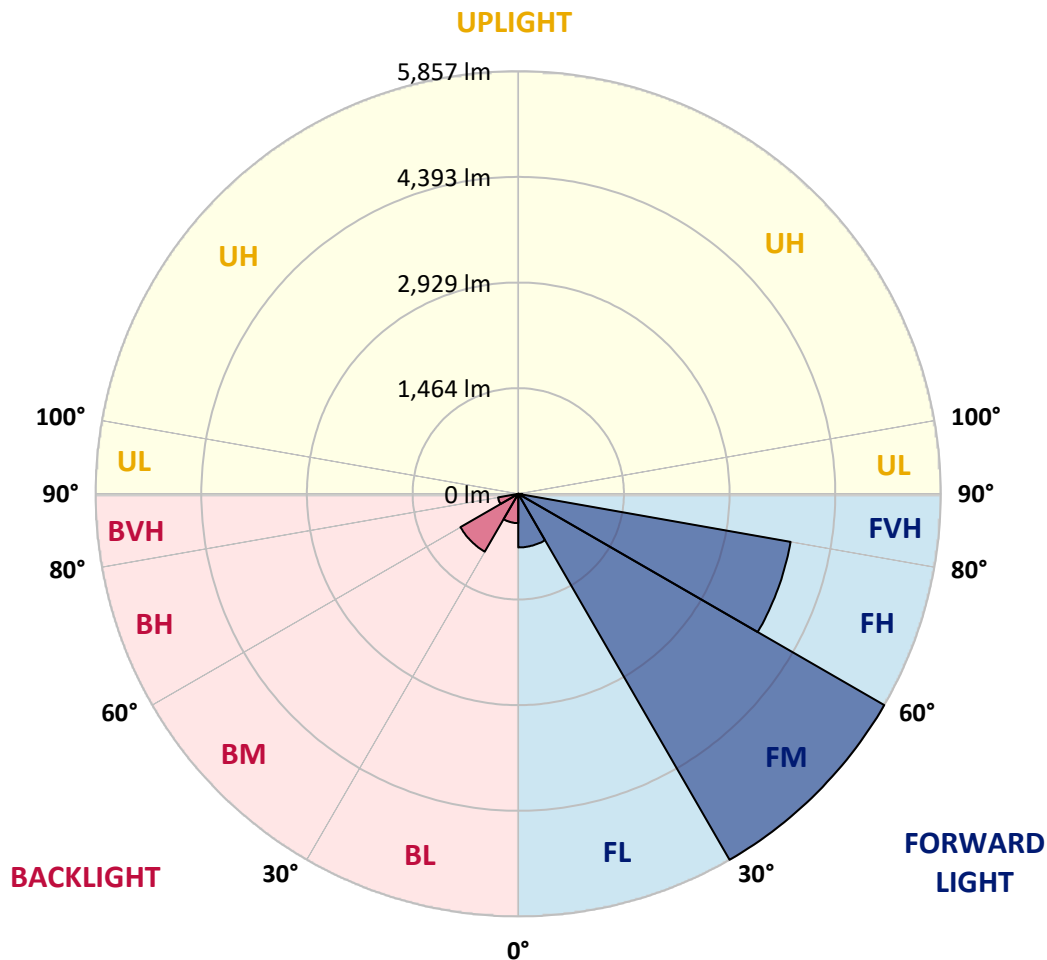
CATALOG NUMBER: GLAN-SB4A-850-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	743.5	6.1			
FM (30°-60°)	5857.4	48.4			
FH (60°-80°)	3832.8	31.7			G2/5000
FVH (80°-90°)	54.3	0.4			G1/100
BL (0°-30°)	406.5	3.4	B1/500		
BM (30°-60°)	925.6	7.6	B1/1000		
BH (60°-80°)	284.2	2.3	B1/500		G1/500
BVH (80°-90°)	2.8	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-G2

Type III Short



REPORT NUMBER: P847847
 CATALOG NUMBER: GLAN-SB4A-850-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1408.2	1408.2	1408.2	1408.2	1408.2	1408.2	1408.2	1408.2	1408.2	1408.2
2.5°	1403.3	1413.0	1410.6	1408.2	1407.4	1409.0	1409.8	1409.0	1409.0	1409.0
5°	1376.5	1384.6	1384.6	1390.3	1398.4	1408.2	1415.5	1417.1	1418.7	1421.2
7.5°	1325.4	1331.9	1336.7	1355.4	1375.7	1401.7	1423.6	1435.0	1436.6	1445.5
10°	1290.5	1298.6	1306.7	1326.2	1355.4	1394.4	1431.7	1459.3	1463.4	1484.5
12.5°	1288.9	1297.0	1307.5	1328.6	1362.7	1404.1	1449.6	1489.3	1496.6	1527.5
15°	1305.9	1315.6	1325.4	1351.4	1387.9	1438.2	1486.9	1536.4	1543.7	1587.5
17.5°	1340.8	1353.8	1361.1	1387.1	1426.0	1482.0	1546.1	1603.0	1609.5	1660.6
20°	1409.8	1425.2	1427.6	1448.8	1486.9	1547.0	1623.3	1693.9	1702.0	1760.4
22.5°	1552.6	1574.6	1555.1	1565.6	1599.7	1659.8	1742.6	1831.8	1843.2	1909.8
25°	1804.2	1835.1	1784.8	1766.9	1781.5	1844.0	1947.9	2060.7	2073.7	2127.3
27.5°	2298.5	2258.8	2182.5	2107.8	2064.0	2099.7	2216.5	2356.1	2372.4	2424.3
30°	2841.5	2806.6	2703.5	2538.0	2434.1	2428.4	2536.3	2692.2	2710.8	2760.3
32.5°	3385.3	3352.0	3240.0	3036.3	2856.1	2766.8	2841.5	3014.4	3024.1	3055.8
35°	3920.1	3886.1	3774.1	3565.5	3343.9	3141.0	3126.4	3321.2	3324.4	3357.7
37.5°	4458.3	4429.9	4310.5	4106.0	3887.7	3607.7	3472.1	3611.7	3615.8	3648.3
40°	4842.2	4854.3	4772.4	4614.1	4426.6	4120.6	3860.1	3921.0	3896.6	3951.0
42.5°	5171.7	5196.0	5124.6	5045.1	4936.3	4666.8	4340.6	4330.0	4291.1	4320.3
45°	5456.6	5476.8	5412.7	5394.1	5391.6	5202.5	4865.7	4802.4	4748.0	4742.3
47.5°	5561.3	5600.2	5627.8	5690.3	5812.0	5732.5	5408.7	5310.5	5249.6	5205.0
50°	5601.0	5642.4	5736.6	5918.4	6206.5	6240.6	5949.2	5838.8	5764.2	5683.0
52.5°	5547.5	5621.3	5747.9	6053.9	6471.9	6648.0	6467.8	6371.3	6286.0	6153.7
55°	5231.7	5305.6	5564.5	6052.3	6604.2	6933.7	6958.1	6915.0	6819.3	6610.7
57.5°	4566.2	4675.8	5085.6	5846.1	6601.8	7179.6	7438.5	7469.4	7362.3	7063.6
60°	3644.2	3792.7	4292.7	5389.2	6398.0	7312.7	7859.8	8014.0	7900.4	7510.0
62.5°	2542.8	2714.9	3188.1	4673.3	5932.2	7217.0	8167.4	8452.3	8366.2	7909.3
65°	1551.0	1606.2	1987.7	3677.5	5140.0	6816.0	8262.3	8689.3	8660.9	8153.6
67.5°	1033.2	1079.5	1189.0	2521.7	3989.9	6015.0	8035.1	8647.9	8656.0	8113.8
70°	622.5	662.3	733.7	1466.6	2585.8	4761.0	7331.4	8120.3	8167.4	7582.2
72.5°	256.5	283.3	348.2	664.7	1339.2	3021.7	5838.0	6971.9	7081.4	6375.3
75°	145.3	159.1	204.5	333.6	581.1	1408.2	3536.3	4949.3	5110.8	4394.1
77.5°	96.6	103.1	132.3	215.9	327.1	480.5	1511.2	2578.5	2887.0	2400.0
80°	64.9	70.6	90.9	144.5	212.6	206.2	481.3	955.3	1175.2	824.6
82.5°	43.8	44.6	64.9	95.0	134.7	99.8	142.0	297.1	373.3	238.6
85°	25.2	24.3	47.9	55.2	60.1	41.4	43.0	89.3	116.9	100.6
87.5°	3.2	4.9	18.7	14.6	8.1	8.9	8.9	15.4	22.7	24.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P847847
 CATALOG NUMBER: GLAN-SB4A-850-U-T3-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1408.2	0°	1408.2	1408.2	1408.2	1408.2	1408.2	1408.2	1408.2	1408.2	1408.2	1408.2
1409.8	2.5°	1409.8	1409.0	1406.5	1404.1	1398.4	1395.2	1396.8	1395.2	1394.4	1395.2
1420.3	5°	1420.3	1417.9	1411.4	1403.3	1391.9	1378.1	1369.2	1356.2	1344.1	1336.7
1448.8	7.5°	1448.8	1446.3	1437.4	1414.7	1378.1	1320.5	1267.8	1221.5	1186.6	1166.3
1494.2	10°	1494.2	1490.1	1476.3	1426.0	1330.3	1204.5	1099.8	1012.9	956.1	929.3
1547.8	12.5°	1547.8	1542.9	1518.6	1415.5	1239.4	1042.9	898.5	801.9	749.1	725.6
1609.5	15°	1611.1	1604.6	1556.7	1365.2	1107.1	864.4	732.1	659.9	625.8	604.7
1688.2	17.5°	1689.8	1678.4	1585.1	1289.7	963.4	728.0	629.8	575.4	545.4	525.1
1791.3	20°	1792.1	1773.4	1607.8	1199.6	831.1	642.0	560.8	515.4	492.7	474.8
1937.3	22.5°	1934.9	1908.1	1635.4	1102.2	737.8	582.7	509.7	476.4	457.8	437.5
2141.1	25°	2111.8	2080.2	1669.5	1012.1	673.6	531.6	472.4	444.8	422.9	399.3
2408.1	27.5°	2359.4	2302.6	1710.1	938.2	618.5	487.8	438.3	407.4	382.3	362.8
2710.8	30°	2635.3	2542.0	1745.8	893.6	568.1	447.2	393.6	362.8	339.3	325.5
2982.7	32.5°	2896.7	2770.1	1769.3	874.1	522.7	400.9	344.9	311.7	293.8	289.8
3248.9	35°	3143.4	2976.2	1766.9	855.5	482.1	354.7	297.1	263.0	249.2	251.6
3535.4	37.5°	3427.5	3196.2	1749.9	826.2	448.8	312.5	255.7	225.6	213.5	214.3
3883.6	40°	3757.8	3450.2	1739.3	771.0	412.3	273.5	221.6	197.2	188.3	185.1
4250.5	42.5°	4110.1	3696.1	1740.9	708.5	366.9	238.6	198.0	177.7	169.6	167.2
4658.7	45°	4463.9	3930.7	1743.4	643.6	319.0	211.8	181.0	163.9	159.1	155.8
5072.7	47.5°	4796.7	4130.4	1697.9	573.8	271.9	191.5	167.2	155.8	151.8	147.7
5488.2	50°	5106.7	4263.5	1588.4	492.7	234.6	175.3	156.6	148.5	144.5	140.4
5864.8	52.5°	5347.8	4284.6	1407.4	409.1	208.6	163.1	150.2	142.8	138.0	133.9
6169.2	55°	5454.9	4152.3	1150.1	331.1	188.3	152.6	143.7	136.4	130.7	126.6
6408.6	57.5°	5427.3	3873.9	896.8	266.2	168.8	142.0	135.5	130.7	124.2	117.7
6602.6	60°	5291.8	3501.4	676.1	221.6	151.0	130.7	126.6	122.6	113.6	103.9
6677.2	62.5°	5057.2	3033.0	482.1	183.4	131.5	117.7	116.1	112.8	99.8	82.0
6566.9	65°	4698.5	2464.1	324.7	152.6	112.8	103.1	103.9	98.2	81.2	60.9
6162.7	67.5°	4174.2	1801.8	207.8	125.0	94.1	86.0	86.8	83.6	69.0	51.9
5396.5	70°	3506.2	1193.1	135.5	95.0	75.5	66.6	71.4	72.2	58.4	42.2
4141.7	72.5°	2570.4	704.5	95.0	70.6	55.2	46.3	58.4	60.1	47.1	31.7
2491.7	75°	1465.0	334.4	71.4	51.1	34.1	32.5	45.5	45.5	32.5	21.1
1078.6	77.5°	615.2	139.6	50.3	33.3	19.5	18.7	30.8	28.4	16.2	9.7
263.0	80°	177.7	62.5	26.8	16.2	8.1	7.3	12.2	8.9	4.1	1.6
99.8	82.5°	69.8	27.6	10.6	6.5	3.2	3.2	1.6	0.0	0.0	0.0
56.8	85°	41.4	11.4	4.9	2.4	0.8	0.0	0.0	0.0	0.0	0.0
12.2	87.5°	10.6	2.4	1.6	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°
<hr/>
1408.2
1398.4
1338.4
1167.1
926.9
723.2
605.5
523.5
471.6
434.2
396.9
358.7
323.0
292.2
251.6
217.5
184.2
166.4
155.8
147.7
140.4
133.1
125.8
116.9
102.3
80.4
59.2
49.5
40.6
30.0
19.5
9.7
1.6
0.0
0.0
0.0
0.0

F REPORT)