

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: P847837

Luminaire Tested: **GLAN-SB4A-840-U-T3-HSS**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P847837
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-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 4000K, 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: 12539 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

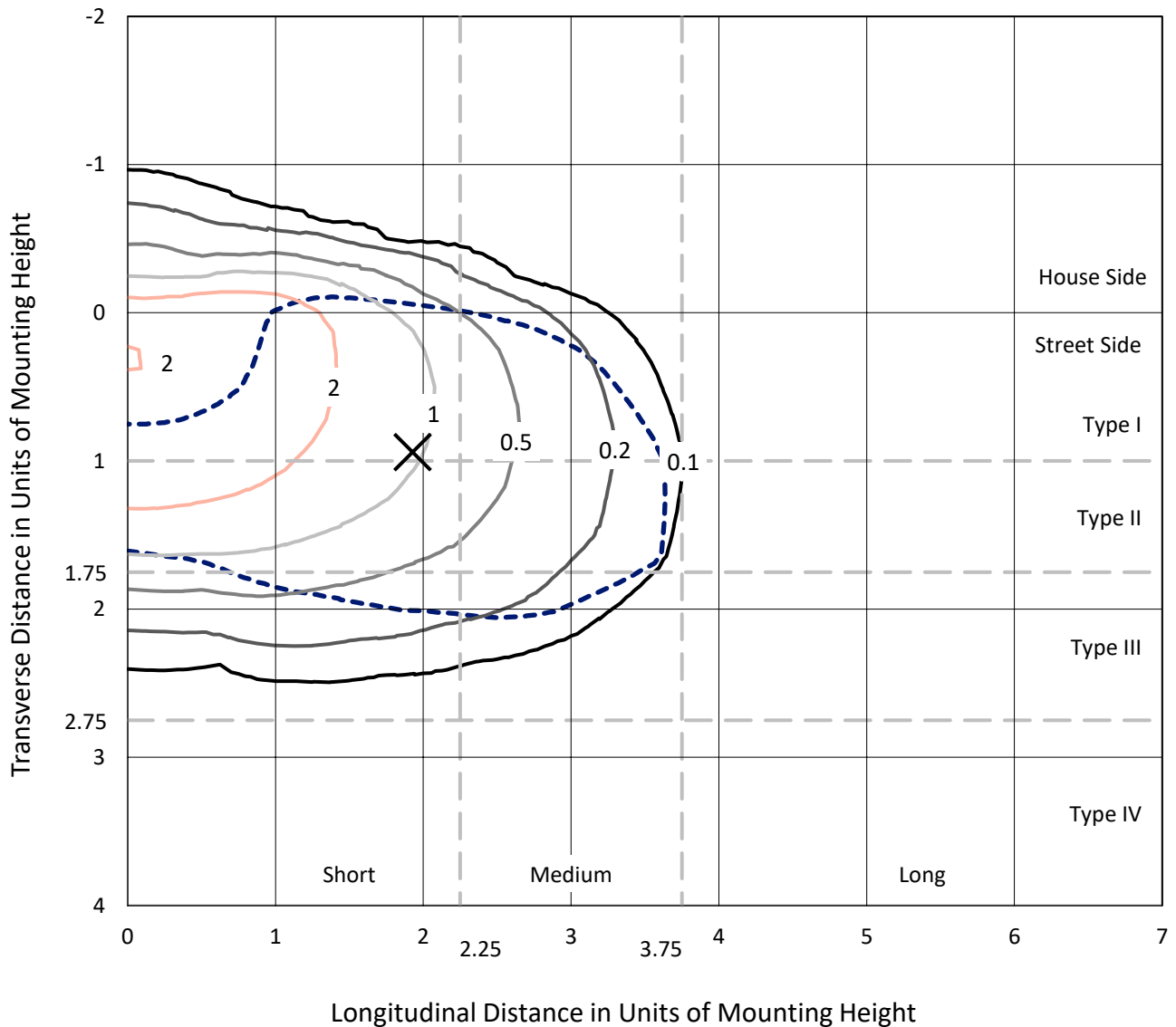
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P847837
 CATALOG NUMBER: GLAN-SB4A-840-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

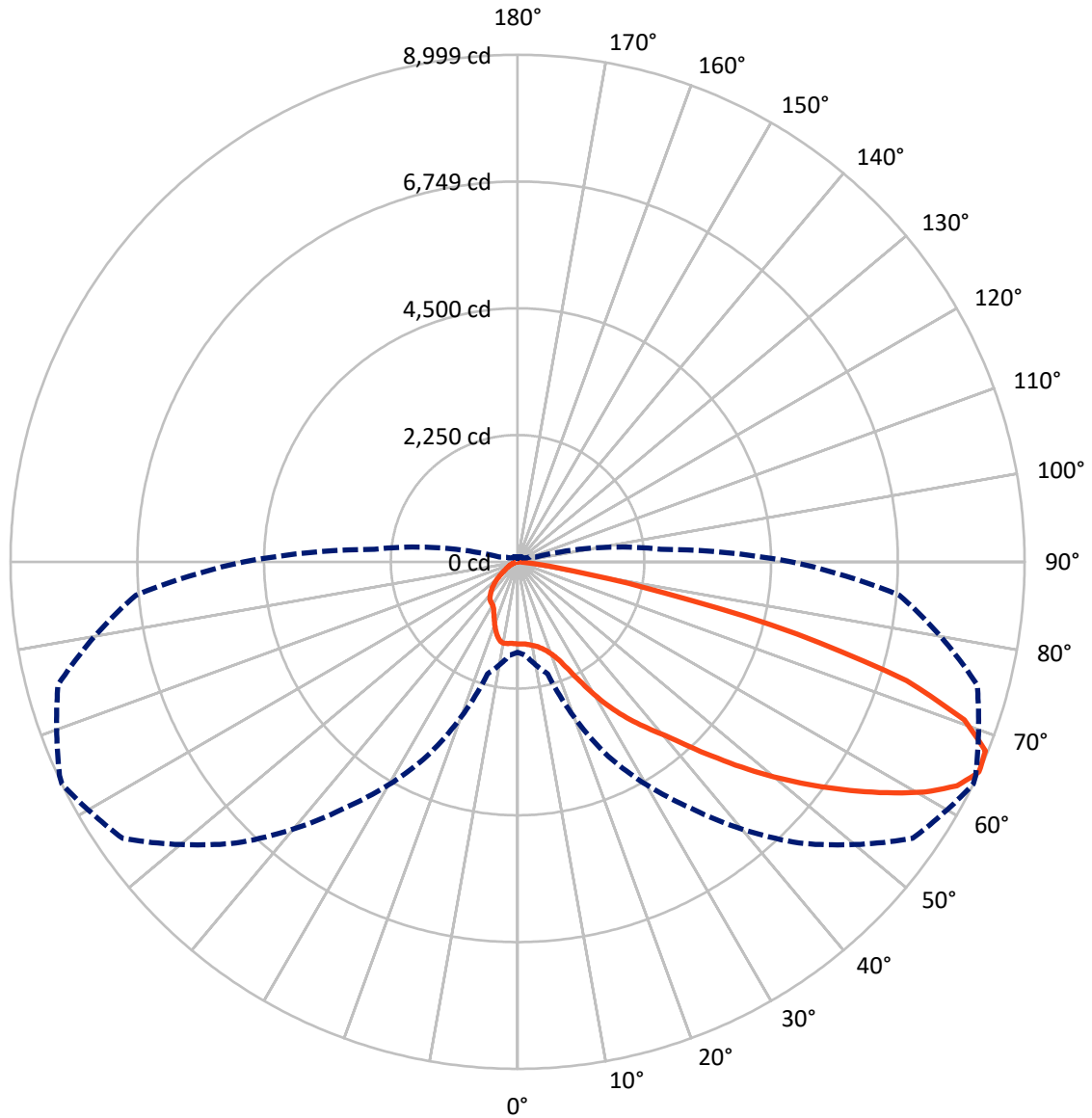
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Short - N/A

REPORT NUMBER: P847837
CATALOG NUMBER: GLAN-SB4A-840-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P847837
 CATALOG NUMBER: GLAN-SB4A-840-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1676.8	0.0	1676.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	10862.1	0.0	10862.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	12539.0	0.0	12539.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.6	1.1
10°-20°	364.9	2.9
20°-30°	691.5	5.5
30°-40°	1399.4	11.2
40°-50°	2383.8	19.0
50°-60°	3241.8	25.9
60°-70°	3044.2	24.3
70°-80°	1219.6	9.7
80°-90°	59.1	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°	12539.0	100.0
0°-180°	12539.0	100.0

Coefficient of Utilization



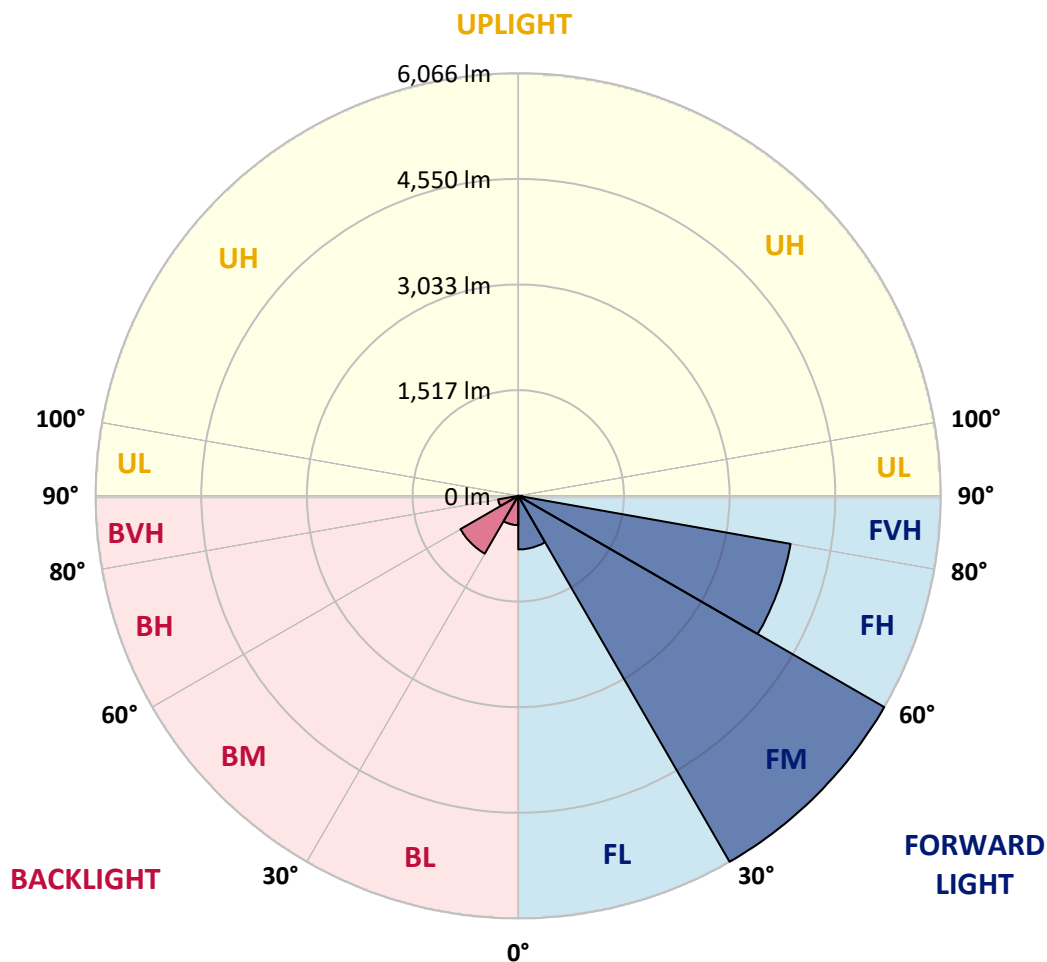
REPORT NUMBER: P847837
 CATALOG NUMBER: GLAN-SB4A-840-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	770.0	6.1			
FM (30°-60°)	6066.4	48.4			
FH (60°-80°)	3969.6	31.7			G2/5000
FVH (80°-90°)	56.2	0.4			G1/100
BL (0°-30°)	421.0	3.4	B1/500		
BM (30°-60°)	958.6	7.6	B1/1000		
BH (60°-80°)	294.3	2.3	B1/500		G1/500
BVH (80°-90°)	2.9	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: P847837
 CATALOG NUMBER: GLAN-SB4A-840-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1458.4	1458.4	1458.4	1458.4	1458.4	1458.4	1458.4	1458.4	1458.4	1458.4
2.5°	1453.4	1463.5	1460.9	1458.4	1457.6	1459.3	1460.1	1459.3	1459.3	1459.3
5°	1425.6	1434.0	1434.0	1439.9	1448.3	1458.4	1466.0	1467.7	1469.3	1471.9
7.5°	1372.7	1379.4	1384.4	1403.8	1424.8	1451.7	1474.4	1486.2	1487.8	1497.1
10°	1336.5	1344.9	1353.3	1373.5	1403.8	1444.1	1482.8	1511.4	1515.6	1537.4
12.5°	1334.8	1343.3	1354.2	1376.0	1411.3	1454.2	1501.3	1542.5	1550.0	1582.0
15°	1352.5	1362.6	1372.7	1399.6	1437.4	1489.5	1540.0	1591.2	1598.8	1644.2
17.5°	1388.6	1402.1	1409.7	1436.6	1476.9	1534.9	1601.3	1660.2	1666.9	1719.8
20°	1460.1	1476.1	1478.6	1500.4	1540.0	1602.2	1681.2	1754.3	1762.7	1823.2
22.5°	1608.0	1630.7	1610.6	1621.5	1656.8	1719.0	1804.7	1897.2	1909.0	1977.9
25°	1868.6	1900.6	1848.4	1830.0	1845.1	1909.8	2017.4	2134.2	2147.7	2203.2
27.5°	2380.5	2339.3	2260.3	2183.0	2137.6	2174.6	2295.6	2440.2	2457.0	2510.8
30°	2942.9	2906.7	2800.0	2628.5	2520.9	2515.0	2626.8	2788.2	2807.6	2858.8
32.5°	3506.1	3471.6	3355.6	3144.6	2958.0	2865.6	2942.9	3121.9	3132.0	3164.8
35°	4060.0	4024.7	3908.7	3692.7	3463.2	3253.1	3237.9	3439.7	3443.0	3477.5
37.5°	4617.3	4587.9	4464.3	4252.5	4026.4	3736.4	3596.0	3740.6	3744.8	3778.4
40°	5014.9	5027.5	4942.6	4778.7	4584.6	4267.7	3997.8	4060.9	4035.7	4092.0
42.5°	5356.2	5381.4	5307.5	5225.1	5112.4	4833.4	4495.5	4484.5	4444.2	4474.4
45°	5651.3	5672.3	5605.9	5586.5	5584.0	5388.2	5039.3	4973.7	4917.4	4911.5
47.5°	5759.7	5800.0	5828.6	5893.3	6019.4	5937.1	5601.7	5500.0	5436.9	5390.7
50°	5800.9	5843.8	5941.3	6129.5	6428.0	6463.3	6161.5	6047.2	5969.8	5885.8
52.5°	5745.4	5821.9	5953.0	6269.9	6702.8	6885.2	6698.6	6598.6	6510.3	6373.3
55°	5418.4	5494.9	5763.1	6268.2	6839.8	7181.1	7206.3	7161.8	7062.6	6846.6
57.5°	4729.1	4842.6	5267.1	6054.7	6837.3	7435.8	7704.0	7735.9	7625.0	7315.6
60°	3774.2	3928.1	4445.9	5581.5	6626.3	7573.7	8140.2	8299.9	8182.3	7777.9
62.5°	2633.6	2811.8	3301.8	4840.1	6143.8	7474.5	8458.8	8753.9	8664.8	8191.5
65°	1606.4	1663.5	2058.6	3808.7	5323.4	7059.2	8557.2	8999.3	8969.9	8444.5
67.5°	1070.1	1118.0	1231.5	2611.7	4132.3	6229.6	8321.8	8956.4	8964.8	8403.3
70°	644.7	685.9	759.9	1518.9	2678.1	4930.9	7593.0	8410.1	8458.8	7852.8
72.5°	265.6	293.4	360.6	688.4	1387.0	3129.5	6046.3	7220.6	7334.1	6602.8
75°	150.5	164.8	211.8	345.5	601.9	1458.4	3662.4	5125.9	5293.2	4550.9
77.5°	100.0	106.8	137.0	223.6	338.8	497.6	1565.2	2670.5	2990.0	2485.6
80°	67.2	73.1	94.1	149.6	220.2	213.5	498.5	989.4	1217.2	854.0
82.5°	45.4	46.2	67.2	98.3	139.5	103.4	147.1	307.7	386.7	247.1
85°	26.1	25.2	49.6	57.2	62.2	42.9	44.6	92.5	121.0	104.2
87.5°	3.4	5.0	19.3	15.1	8.4	9.2	9.2	16.0	23.5	25.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P847837
 CATALOG NUMBER: GLAN-SB4A-840-U-T3-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1458.4	0°	1458.4	1458.4	1458.4	1458.4	1458.4	1458.4	1458.4	1458.4	1458.4	1458.4
1460.1	2.5°	1460.1	1459.3	1456.7	1454.2	1448.3	1445.0	1446.6	1445.0	1444.1	1445.0
1471.0	5°	1471.0	1468.5	1461.8	1453.4	1441.6	1427.3	1418.1	1404.6	1392.0	1384.4
1500.4	7.5°	1500.4	1497.9	1488.7	1465.1	1427.3	1367.6	1313.0	1265.1	1228.9	1207.9
1547.5	10°	1547.5	1543.3	1529.0	1476.9	1377.7	1247.4	1139.0	1049.1	990.2	962.5
1603.0	12.5°	1603.0	1598.0	1572.7	1466.0	1283.6	1080.2	930.5	830.5	775.9	751.5
1666.9	15°	1668.6	1661.8	1612.2	1413.9	1146.6	895.2	758.2	683.4	648.1	626.2
1748.4	17.5°	1750.1	1738.3	1641.7	1335.7	997.8	754.0	652.3	596.0	564.9	543.9
1855.2	20°	1856.0	1836.7	1665.2	1242.4	860.8	664.9	580.8	533.8	510.2	491.7
2006.5	22.5°	2004.0	1976.2	1693.8	1141.5	764.1	603.5	527.9	493.4	474.1	453.1
2217.5	25°	2187.2	2154.4	1729.1	1048.2	697.7	550.6	489.2	460.6	437.9	413.6
2494.0	27.5°	2443.6	2384.7	1771.1	971.7	640.5	505.2	453.9	422.0	395.9	375.7
2807.6	30°	2729.4	2632.7	1808.1	925.5	588.4	463.2	407.7	375.7	351.4	337.1
3089.2	32.5°	3000.0	2868.9	1832.5	905.3	541.3	415.2	357.2	322.8	304.3	300.1
3364.9	35°	3255.6	3082.4	1830.0	886.0	499.3	367.3	307.7	272.3	258.1	260.6
3661.6	37.5°	3549.8	3310.2	1812.3	855.7	464.8	323.6	264.8	233.7	221.1	221.9
4022.2	40°	3891.9	3573.3	1801.4	798.6	427.0	283.3	229.5	204.3	195.0	191.7
4402.1	42.5°	4256.7	3828.0	1803.1	733.8	379.9	247.1	205.1	184.1	175.7	173.2
4825.0	45°	4623.2	4071.0	1805.6	666.6	330.4	219.4	187.5	169.8	164.8	161.4
5253.7	47.5°	4967.9	4277.7	1758.5	594.3	281.6	198.4	173.2	161.4	157.2	153.0
5684.0	50°	5289.0	4415.6	1645.0	510.2	242.9	181.6	162.2	153.8	149.6	145.4
6074.1	52.5°	5538.6	4437.5	1457.6	423.7	216.0	169.0	155.5	147.9	142.9	138.7
6389.3	55°	5649.6	4300.4	1191.1	343.0	195.0	158.0	148.8	141.2	135.3	131.1
6637.3	57.5°	5621.0	4012.1	928.8	275.7	174.8	147.1	140.4	135.3	128.6	121.9
6838.2	60°	5480.6	3626.3	700.2	229.5	156.3	135.3	131.1	126.9	117.7	107.6
6915.5	62.5°	5237.7	3141.3	499.3	190.0	136.2	121.9	120.2	116.8	103.4	84.9
6801.2	65°	4866.1	2552.0	336.2	158.0	116.8	106.8	107.6	101.7	84.1	63.0
6382.6	67.5°	4323.1	1866.1	215.2	129.5	97.5	89.1	89.9	86.6	71.4	53.8
5589.1	70°	3631.3	1235.7	140.4	98.3	78.2	68.9	74.0	74.8	60.5	43.7
4289.5	72.5°	2662.1	729.6	98.3	73.1	57.2	47.9	60.5	62.2	48.8	32.8
2580.6	75°	1517.3	346.3	74.0	53.0	35.3	33.6	47.1	47.1	33.6	21.9
1117.1	77.5°	637.2	144.6	52.1	34.5	20.2	19.3	31.9	29.4	16.8	10.1
272.3	80°	184.1	64.7	27.7	16.8	8.4	7.6	12.6	9.2	4.2	1.7
103.4	82.5°	72.3	28.6	10.9	6.7	3.4	3.4	1.7	0.0	0.0	0.0
58.8	85°	42.9	11.8	5.0	2.5	0.8	0.0	0.0	0.0	0.0	0.0
12.6	87.5°	10.9	2.5	1.7	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°
1458.4
1448.3
1386.1
1208.8
959.9
749.0
627.1
542.2
488.4
449.7
411.0
371.5
334.6
302.6
260.6
225.3
190.8
172.3
161.4
153.0
145.4
137.9
130.3
121.0
105.9
83.2
61.4
51.3
42.0
31.1
20.2
10.1
1.7
0.0
0.0
0.0
0.0

F REPORT)