

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: P852580

Luminaire Tested: **GLAN-SB4D-850-U-T4FT-HSS**

Issue Date: 7/11/2024

Test Information

Test Method: LM-79-08
Report Number: P852580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 7/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB4D-850-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26514 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

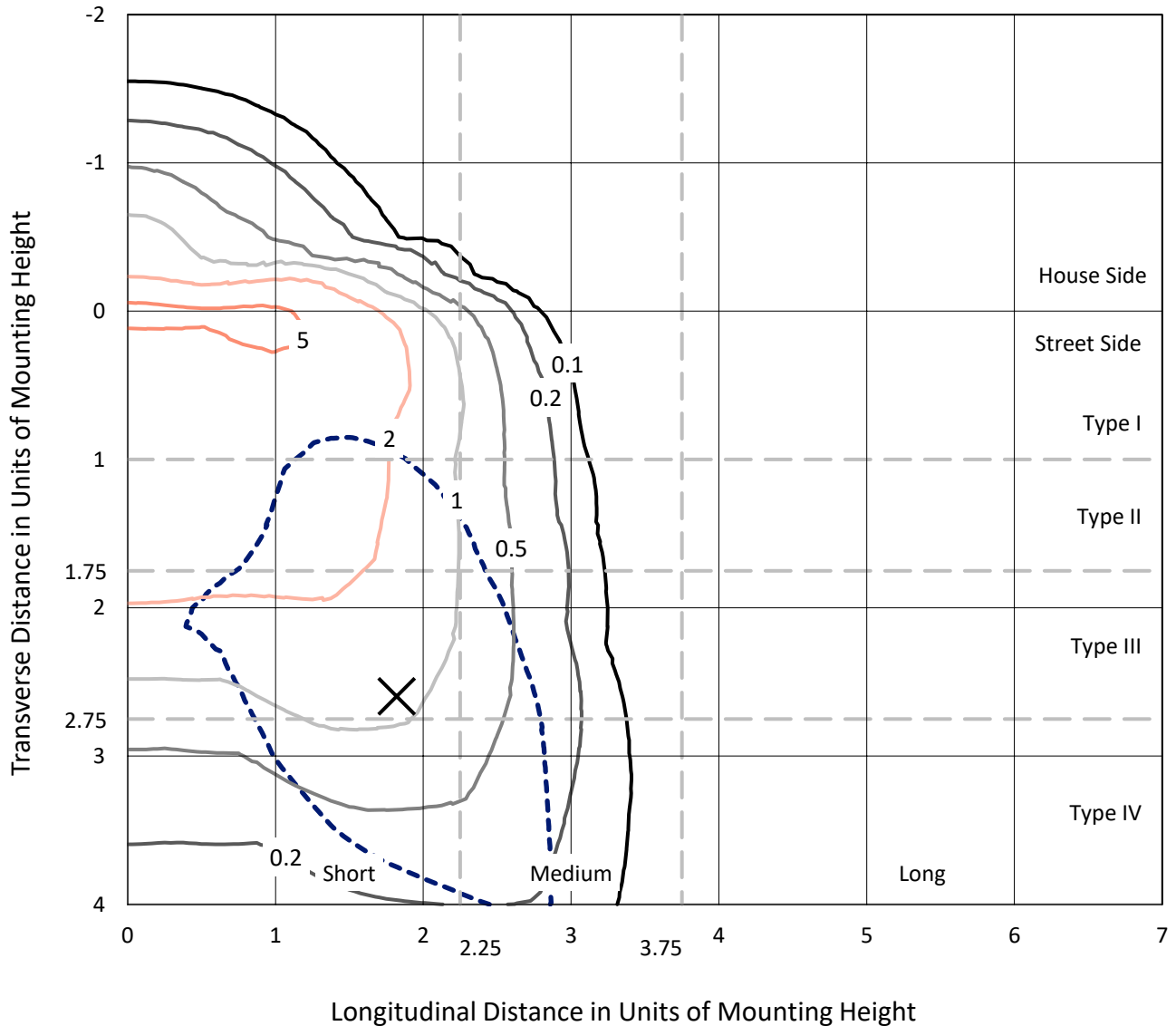
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P852580
 CATALOG NUMBER: GLAN-SB4D-850-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

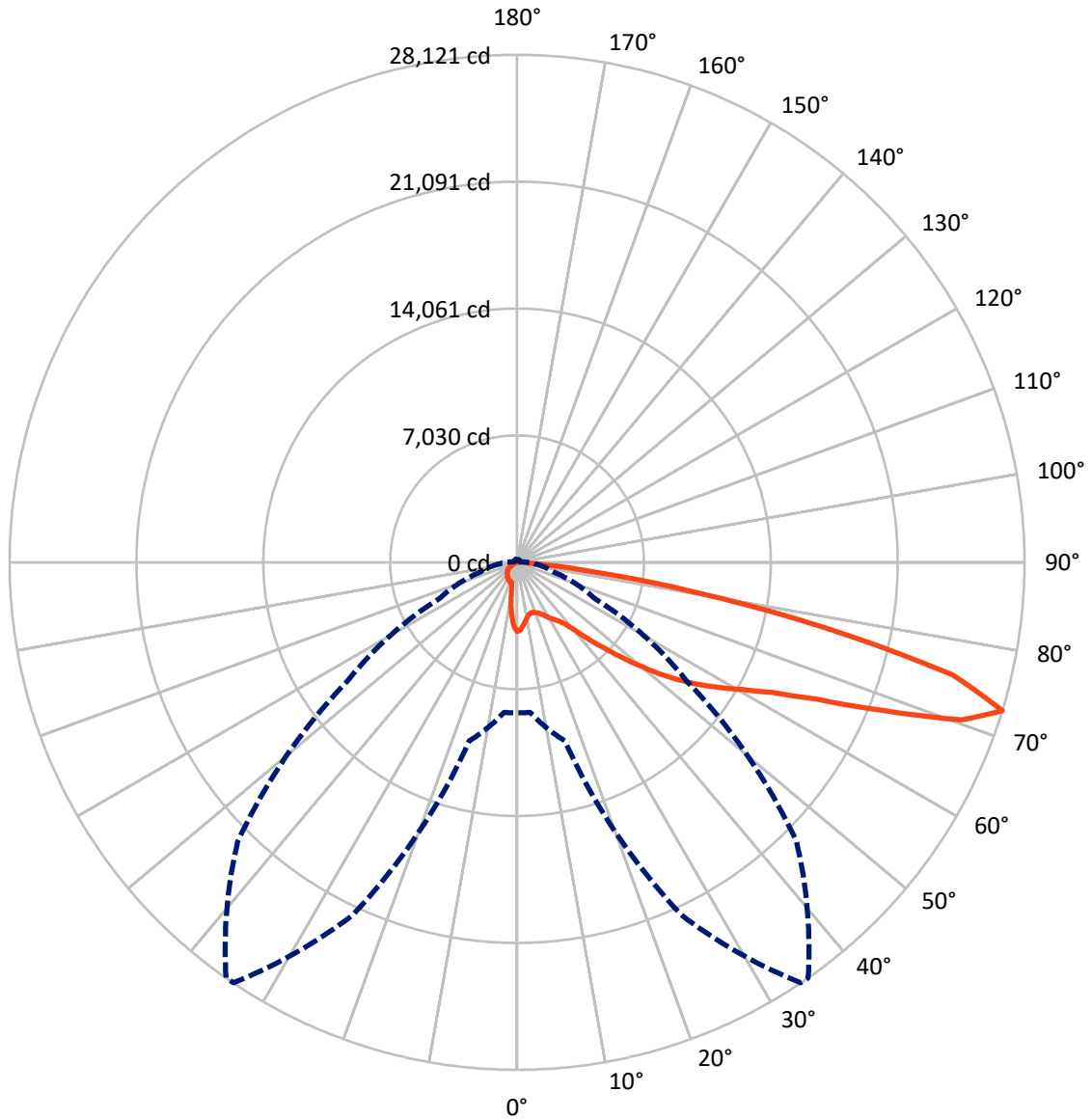
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P852580
CATALOG NUMBER: GLAN-SB4D-850-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P852580
 CATALOG NUMBER: GLAN-SB4D-850-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2984.0	0.0	2984.0
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	23530.0	0.0	23530.0
	% Fixture	88.7	0.0	88.7
Total	Lumens	26514.0	0.0	26514.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.8	1.2
10°-20°	738.7	2.8
20°-30°	1200.0	4.5
30°-40°	2002.2	7.6
40°-50°	3788.3	14.3
50°-60°	6019.5	22.7
60°-70°	7446.6	28.1
70°-80°	4628.8	17.5
80°-90°	374.1	1.4
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°	26514.0	100.0
0°-180°	26514.0	100.0

Coefficient of Utilization



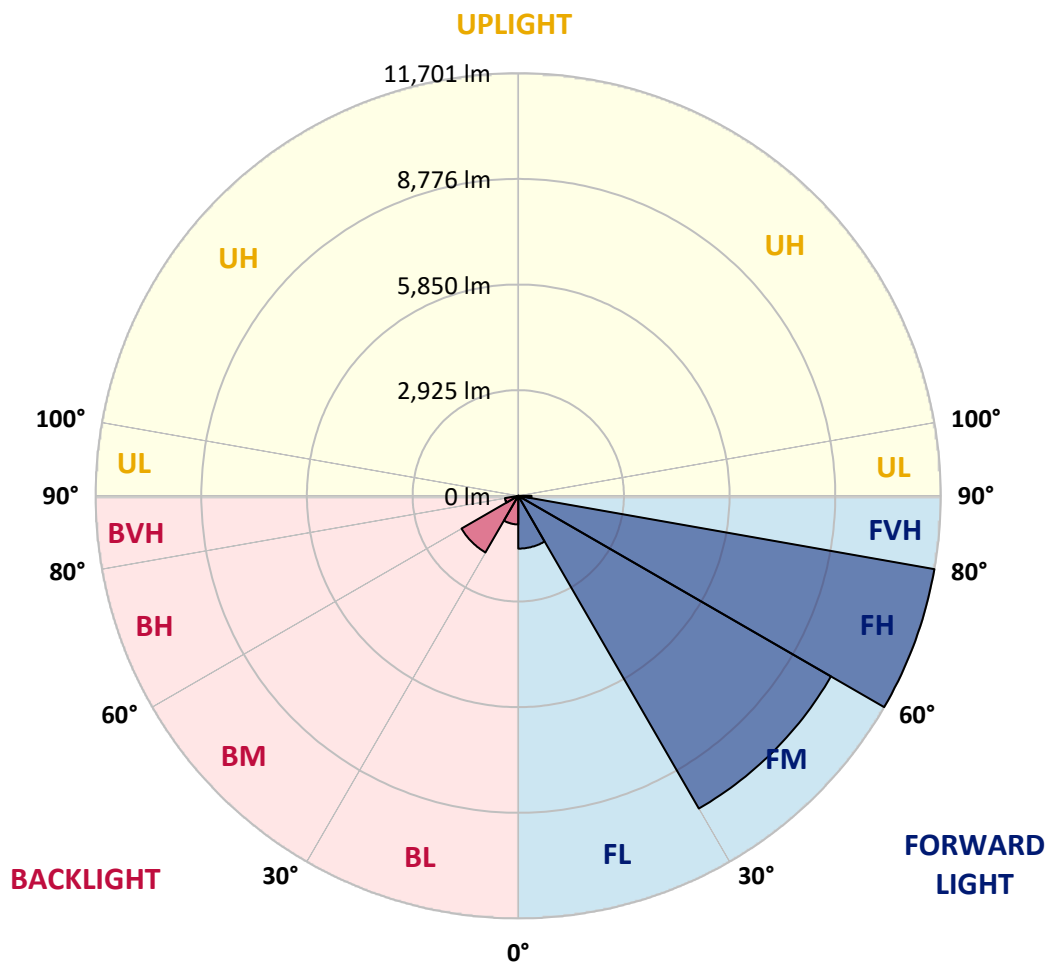
REPORT NUMBER: P852580
 CATALOG NUMBER: GLAN-SB4D-850-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1461.6	5.5			
FM	(30°-60°)	9998.4	37.7			
FH	(60°-80°)	11700.9	44.1			G4/12000
FVH	(80°-90°)	369.0	1.4			G3/500
BL	(0°-30°)	792.9	3.0	B2/1000		
BM	(30°-60°)	1811.6	6.8	B2/2500		
BH	(60°-80°)	374.5	1.4	B1/500		G1/500
BVH	(80°-90°)	5.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



REPORT NUMBER: P852580
 CATALOG NUMBER: GLAN-SB4D-850-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	3842.8	3842.8	3842.8	3842.8	3842.8	3842.8	3842.8	3842.8	3842.8	3842.8
2.5°	3671.8	3702.9	3708.7	3718.4	3718.4	3730.1	3749.5	3776.7	3821.4	3844.7
5°	3384.3	3407.6	3436.7	3460.0	3504.7	3510.6	3586.3	3660.1	3763.1	3840.8
7.5°	3094.8	3122.0	3160.9	3217.2	3275.5	3293.0	3407.6	3531.9	3695.1	3840.8
10°	2890.8	2892.8	2927.7	2984.1	3077.3	3098.7	3238.6	3415.4	3619.4	3817.5
12.5°	2776.2	2789.8	2805.3	2848.1	2937.4	2951.0	3100.6	3308.5	3543.6	3803.9
15°	2776.2	2785.9	2795.6	2817.0	2888.9	2900.5	3032.6	3240.5	3504.7	3809.7
17.5°	2805.3	2820.9	2813.1	2838.4	2914.1	2921.9	3038.5	3221.1	3502.8	3846.7
20°	2875.3	2886.9	2871.4	2886.9	2962.7	2978.2	3098.7	3258.0	3535.8	3910.8
22.5°	2986.0	2991.8	2954.9	2966.6	3044.3	3063.7	3203.6	3362.9	3615.5	4013.7
25°	3125.9	3137.5	3081.2	3094.8	3168.6	3191.9	3353.2	3520.3	3741.7	4155.6
27.5°	3287.1	3293.0	3244.4	3242.5	3337.7	3370.7	3533.9	3714.5	3910.8	4334.3
30°	3471.7	3489.2	3442.6	3434.8	3555.2	3582.4	3743.7	3953.5	4159.4	4602.4
32.5°	3617.4	3631.0	3603.8	3623.2	3745.6	3767.0	3998.2	4291.5	4549.9	4983.2
35°	3827.2	3835.0	3772.8	3807.8	3947.7	4002.1	4345.9	4765.6	5041.4	5461.1
37.5°	4586.8	4586.8	4322.6	4149.7	4283.8	4332.3	4821.9	5362.0	5647.6	6102.2
40°	5637.9	5620.4	5233.8	4880.2	4862.7	4957.9	5499.9	6113.8	6430.5	6871.5
42.5°	6758.8	6731.6	6205.2	5855.5	5797.2	5830.2	6282.9	7040.5	7363.0	7809.9
45°	7753.5	7745.8	7264.0	6793.8	6688.9	6793.8	7260.1	8124.6	8355.8	8825.9
47.5°	8587.0	8587.0	8235.3	7928.4	7874.0	7936.2	8583.1	9327.2	9305.8	9908.0
50°	9546.7	9538.9	9204.8	9072.7	9129.0	9216.4	10106.2	10593.8	10288.8	10970.7
52.5°	10218.9	10265.5	10150.9	10129.5	10417.0	10568.6	11652.6	11833.3	11168.9	11979.0
55°	10751.2	10805.6	10937.7	11087.3	11641.0	11839.1	13150.5	13008.7	11905.2	12853.3
57.5°	11505.0	11427.3	11631.3	11926.6	12822.2	13061.1	14601.7	14118.0	12497.7	13562.4
60°	12420.0	12431.7	12466.7	12839.7	14001.4	14308.4	16031.6	15167.1	12878.5	13997.5
62.5°	13519.6	13537.1	13609.0	14182.1	15584.8	15874.2	17554.7	16025.8	13053.4	13875.1
65°	13443.9	13517.7	14320.0	16280.3	17991.8	18277.4	19332.3	16628.0	12789.2	12756.1
67.5°	12247.1	12367.6	13710.0	18786.4	21620.9	21939.5	21481.0	16746.5	11648.8	9919.7
70°	10677.4	10720.1	12334.5	21040.0	25823.1	26145.6	23404.4	15443.0	8839.5	5533.0
72.5°	8338.3	8348.0	10242.2	21562.6	28103.9	28121.4	21894.8	11464.2	4753.9	2125.4
75°	5956.5	5898.2	6859.9	17486.7	24725.4	24923.6	16414.3	5377.5	1816.5	1004.4
77.5°	3193.9	3258.0	3881.6	10370.4	17080.7	17418.7	8956.1	1550.3	924.8	683.8
80°	986.9	1041.3	1591.1	4748.1	9674.9	9878.9	3320.2	689.7	645.0	487.6
82.5°	310.8	322.5	742.1	1995.2	4015.7	4108.9	961.7	390.5	441.0	322.5
85°	89.4	91.3	330.3	744.1	992.7	1012.2	270.0	151.5	252.6	200.1
87.5°	9.7	31.1	124.3	124.3	87.4	85.5	29.1	33.0	71.9	25.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P852580
 CATALOG NUMBER: GLAN-SB4D-850-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3842.8	0°	3842.8	3842.8	3842.8	3842.8	3842.8	3842.8	3842.8	3842.8	3842.8	3842.8
3860.3	2.5°	3850.5	3852.5	3827.2	3784.5	3737.9	3699.0	3650.4	3611.6	3584.4	3576.6
3895.2	5°	3877.7	3864.1	3792.3	3662.1	3506.7	3372.6	3223.0	3104.5	3026.8	2993.8
3932.1	7.5°	3918.5	3879.7	3722.3	3465.9	3168.6	2904.4	2636.3	2428.4	2296.3	2230.3
3967.1	10°	3953.5	3875.8	3605.8	3182.2	2727.6	2327.4	1966.1	1715.5	1575.6	1509.5
4007.9	12.5°	3986.5	3873.9	3454.2	2846.1	2230.3	1740.7	1404.6	1280.3	1241.4	1227.8
4074.0	15°	4048.7	3879.7	3263.8	2461.5	1734.9	1315.2	1192.9	1190.9	1198.7	1194.8
4175.0	17.5°	4134.2	3885.5	3048.2	2053.5	1338.6	1159.8	1154.0	1171.5	1183.1	1177.3
4301.3	20°	4244.9	3908.8	2818.9	1649.4	1150.1	1121.0	1134.6	1150.1	1159.8	1150.1
4470.3	22.5°	4400.3	3949.6	2568.3	1325.0	1089.9	1097.7	1109.3	1126.8	1136.5	1122.9
4685.9	25°	4590.7	4013.7	2321.6	1152.1	1060.7	1070.5	1087.9	1107.4	1119.0	1105.4
4957.9	27.5°	4837.5	4116.7	2094.3	1113.2	1031.6	1037.4	1062.7	1091.8	1107.4	1089.9
5344.5	30°	5194.9	4285.7	1898.1	1130.7	1014.1	1000.5	1035.5	1076.3	1093.8	1078.2
5871.0	32.5°	5669.0	4524.7	1777.6	1157.9	1006.3	957.8	990.8	1043.3	1072.4	1062.7
6558.7	35°	6290.6	4888.0	1731.0	1189.0	1000.5	913.1	936.4	992.7	1043.3	1053.0
7425.2	37.5°	7044.4	5393.1	1744.6	1202.6	983.0	876.2	887.8	936.4	1002.5	1033.5
8400.5	40°	7901.2	5981.7	1822.3	1189.0	963.6	845.1	847.0	884.0	942.2	988.9
9449.6	42.5°	8785.1	6669.5	1966.1	1138.5	946.1	817.9	812.1	837.3	876.2	909.2
10496.7	45°	9626.3	7376.6	2107.9	1068.5	924.8	790.7	777.1	786.8	794.6	808.2
11516.6	47.5°	10360.7	7874.0	2067.1	1004.4	895.6	759.6	736.3	732.4	709.1	707.2
12427.8	50°	10867.8	7982.8	1835.9	940.3	852.9	724.6	687.7	664.4	623.6	604.2
13109.7	52.5°	11029.0	7553.4	1499.8	876.2	782.9	678.0	625.6	588.7	538.1	520.7
13502.1	55°	10815.3	6712.2	1198.7	798.5	685.8	615.9	557.6	509.0	468.2	446.8
13544.9	57.5°	10292.7	5641.8	948.1	707.2	582.8	545.9	487.6	439.1	404.1	382.7
13070.8	60°	9426.2	4480.0	749.9	598.4	497.3	470.1	409.9	378.8	347.8	322.5
11846.9	62.5°	8111.0	3197.8	588.7	474.0	415.7	384.7	349.7	326.4	289.5	254.5
9645.8	65°	6329.5	1956.4	454.6	347.8	334.2	318.6	297.2	275.9	231.2	196.2
6292.6	67.5°	3992.4	926.7	324.4	262.3	264.2	256.4	246.7	229.2	196.2	165.1
2818.9	70°	1758.2	448.8	213.7	200.1	196.2	196.2	204.0	198.2	167.1	137.9
979.1	72.5°	598.4	240.9	159.3	151.5	141.8	139.9	171.0	165.1	134.1	106.9
487.6	75°	312.8	161.2	116.6	108.8	85.5	103.0	136.0	128.2	95.2	69.9
322.5	77.5°	204.0	114.6	79.7	69.9	48.6	68.0	101.0	89.4	56.3	35.0
211.8	80°	128.2	75.8	46.6	33.0	23.3	36.9	54.4	38.9	21.4	7.8
124.3	82.5°	68.0	38.9	17.5	11.7	9.7	11.7	13.6	9.7	3.9	0.0
64.1	85°	27.2	13.6	5.8	3.9	1.9	0.0	3.9	1.9	0.0	0.0
11.7	87.5°	9.7	1.9	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>
3842.8
3590.2
3005.4
2240.0
1511.5
1223.9
1192.9
1175.4
1148.2
1121.0
1103.5
1089.9
1076.3
1062.7
1053.0
1041.3
1004.4
922.8
816.0
705.2
606.1
518.7
446.8
378.8
316.7
248.7
190.4
161.2
132.1
<i>101.0</i>
64.1
31.1
5.8
0.0
0.0
0.0
0.0

F REPORT)