

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: P852887

Luminaire Tested: **GLAN-SB7A-850-U-T4FT**

Issue Date: 7/11/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P852887  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/11/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB7A-850-U-T4FT  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27073 lumens  
Efficiency: N/A  
Efficacy: 136.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

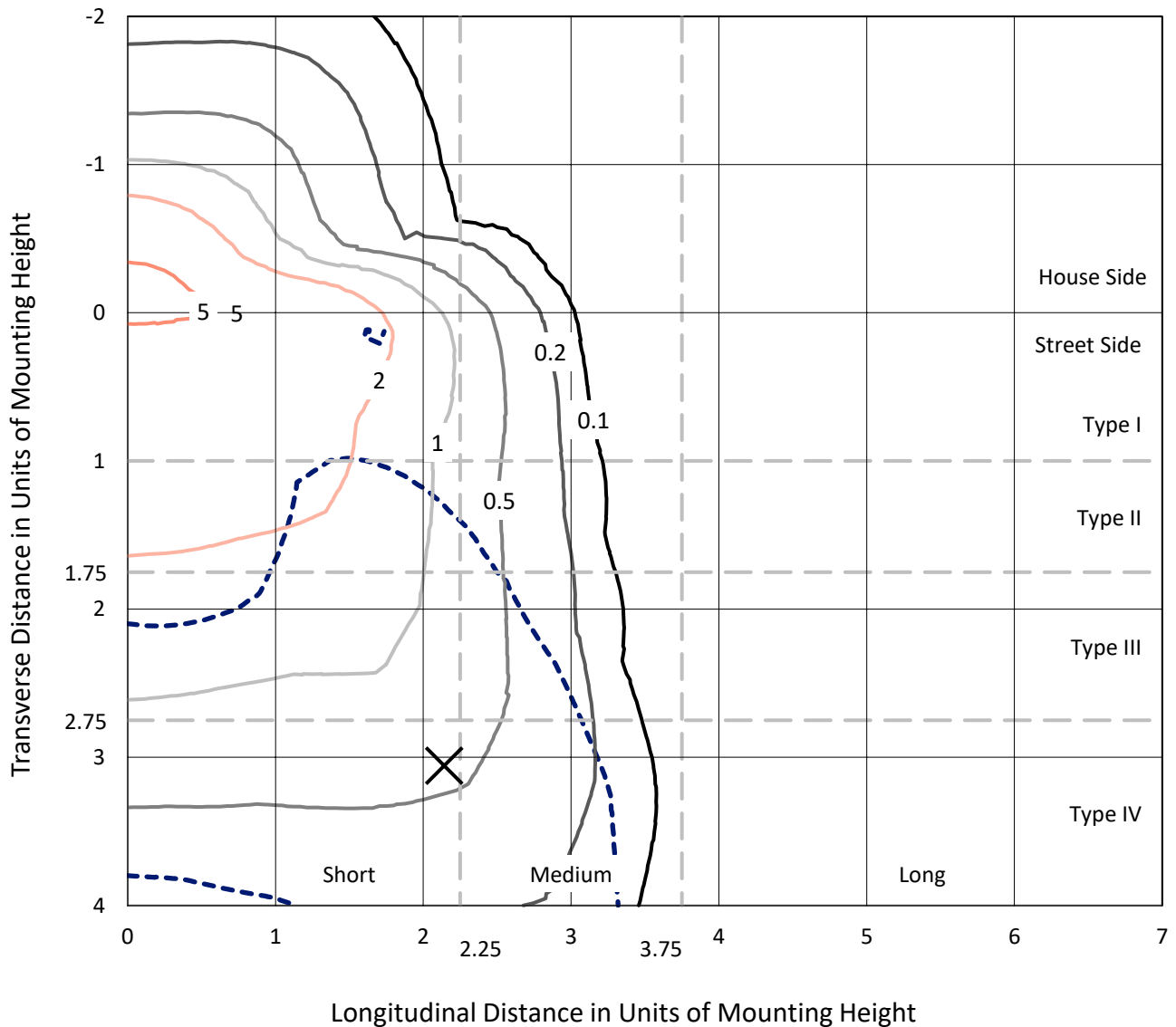
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P852887  
 CATALOG NUMBER: GLAN-SB7A-850-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

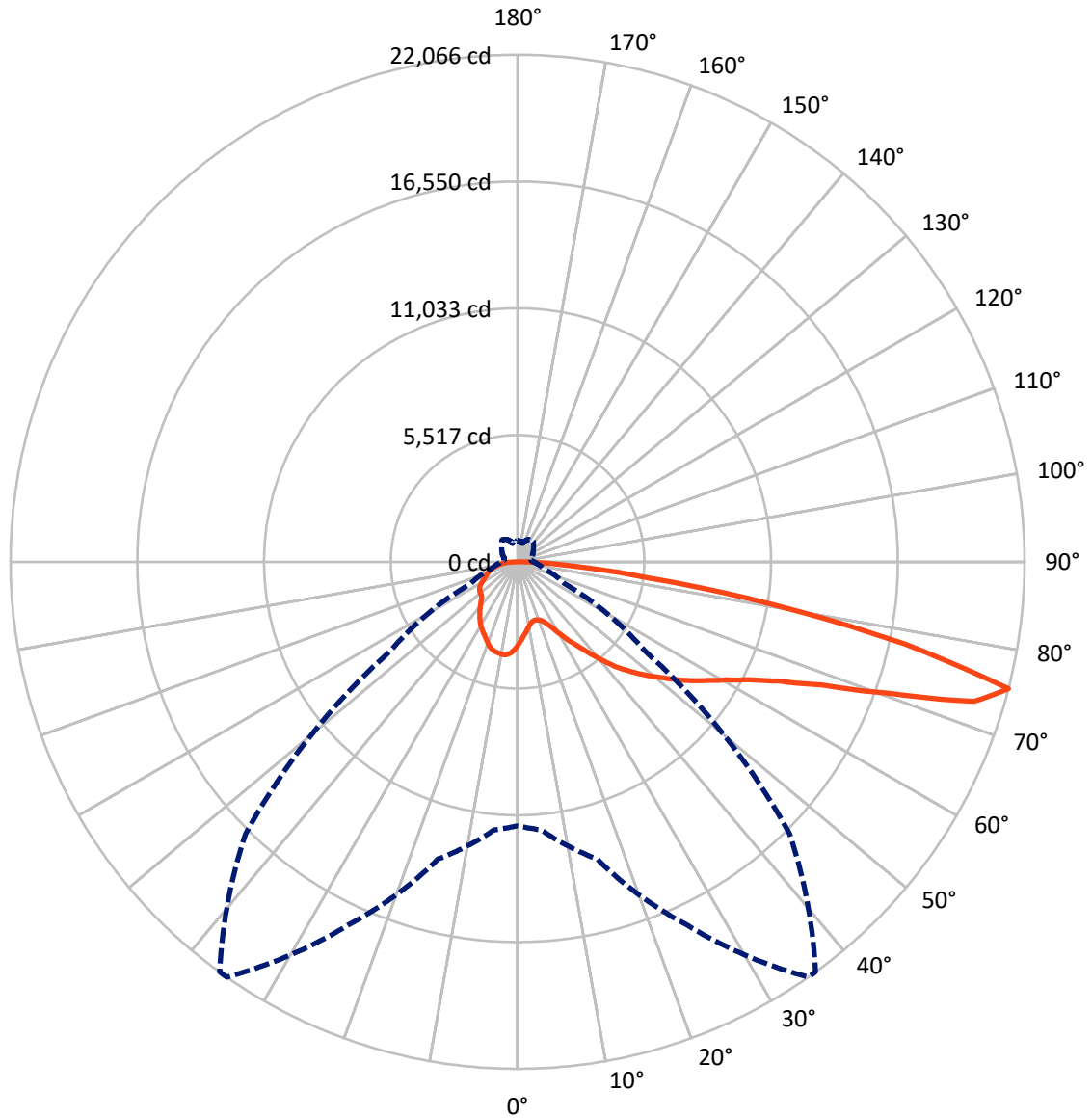
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type IV - Short - N/A

REPORT NUMBER: P852887  
CATALOG NUMBER: GLAN-SB7A-850-U-T4FT

### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P852887  
 CATALOG NUMBER: GLAN-SB7A-850-U-T4FT

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6442.7	0.0	6442.7
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	20630.3	0.0	20630.3
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	27073.0	0.0	27073.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	341.6	1.3
10°-20°	985.2	3.6
20°-30°	1654.5	6.1
30°-40°	2571.3	9.5
40°-50°	3816.5	14.1
50°-60°	5268.9	19.5
60°-70°	6392.4	23.6
70°-80°	5282.8	19.5
80°-90°	759.8	2.8
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°	27073.0	100.0
0°-180°	27073.0	100.0

**Coefficient of Utilization**

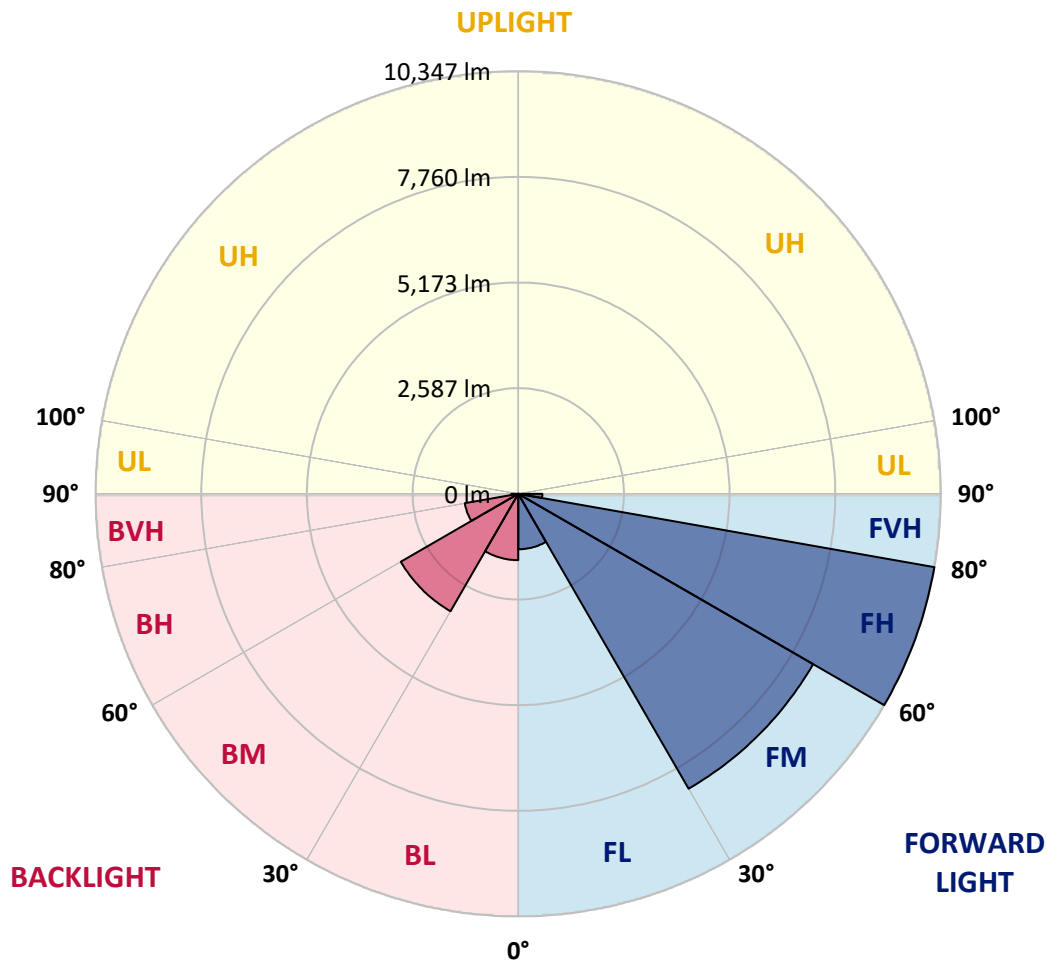


REPORT NUMBER: P852887  
 CATALOG NUMBER: GLAN-SB7A-850-U-T4FT

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1357.7	5.0			
FM (30°-60°)	8337.0	30.8			
FH (60°-80°)	10346.9	38.2			G4/12000
FVH (80°-90°)	588.7	2.2			G4/750
BL (0°-30°)	1623.6	6.0	B3/2500		
BM (30°-60°)	3319.7	12.3	B3/5000		
BH (60°-80°)	1328.3	4.9	B3/2500		G3/2500
BVH (80°-90°)	171.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type IV Short



REPORT NUMBER: P852887  
 CATALOG NUMBER: GLAN-SB7A-850-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	3607.7	3607.7	3607.7	3607.7	3607.7	3607.7	3607.7	3607.7	3607.7	3607.7
2.5°	3326.7	3347.1	3355.9	3351.5	3373.5	3370.6	3401.3	3439.4	3492.0	3543.3
5°	3070.5	3092.5	3111.5	3129.1	3171.5	3184.7	3233.0	3306.2	3402.8	3500.8
7.5°	2832.0	2851.0	2880.3	2912.5	2984.2	2997.4	3077.9	3192.0	3326.7	3470.1
10°	2637.3	2656.4	2687.1	2723.7	2813.0	2829.0	2931.5	3083.7	3259.3	3440.8
12.5°	2553.9	2559.8	2577.3	2613.9	2691.5	2701.7	2814.4	2988.6	3193.5	3418.9
15°	2549.5	2561.2	2562.7	2581.7	2646.1	2650.5	2754.4	2927.1	3152.5	3414.5
17.5°	2593.4	2602.2	2589.0	2600.7	2654.9	2662.2	2744.2	2897.8	3139.3	3433.5
20°	2710.5	2717.8	2678.3	2662.2	2701.7	2707.6	2788.1	2916.9	3152.5	3473.0
22.5°	2959.3	2963.7	2867.1	2801.2	2804.2	2807.1	2877.3	2994.4	3203.7	3544.7
25°	3347.1	3344.2	3190.5	3063.2	2990.0	2973.9	3020.8	3120.3	3290.1	3639.9
27.5°	3800.8	3778.9	3625.2	3435.0	3275.4	3252.0	3241.8	3284.2	3413.0	3765.7
30°	4313.1	4292.6	4127.2	3878.4	3657.4	3619.4	3522.8	3500.8	3596.0	3937.0
32.5°	4875.1	4861.9	4664.3	4362.9	4067.2	4023.3	3860.9	3802.3	3877.0	4196.0
35°	5346.4	5334.7	5170.7	4860.5	4499.0	4444.8	4279.4	4213.6	4251.6	4528.2
37.5°	5772.3	5766.4	5625.9	5381.5	5008.3	4942.4	4756.6	4734.6	4727.3	4965.8
40°	6167.4	6152.8	6006.4	5877.6	5601.0	5541.0	5377.1	5358.1	5302.5	5504.4
42.5°	6605.0	6567.0	6354.8	6294.7	6220.1	6170.3	6072.3	6075.2	5952.3	6111.8
45°	6962.1	6940.2	6722.1	6687.0	6767.5	6747.0	6831.9	6853.8	6615.3	6748.4
47.5°	7345.6	7325.1	7140.7	7115.8	7333.9	7339.7	7639.8	7647.1	7262.2	7410.0
50°	7818.3	7789.0	7606.1	7636.8	7881.2	7903.2	8452.0	8402.3	7857.8	8081.7
52.5°	8130.0	8147.6	8108.1	8157.8	8491.5	8512.0	9251.1	9123.8	8447.6	8744.7
55°	8359.8	8394.9	8517.9	8632.0	9135.5	9156.0	10004.9	9810.2	8936.5	9359.4
57.5°	8655.5	8605.7	8835.5	9057.9	9747.3	9801.4	10738.1	10471.7	9369.7	9889.2
60°	9079.9	9044.8	9223.3	9552.6	10432.2	10518.6	11513.8	11067.4	9687.3	10309.3
62.5°	9940.5	9852.6	9880.5	10171.7	11295.7	11409.9	12389.0	11587.0	9845.3	10473.2
65°	11226.9	11076.2	10935.7	11137.6	12511.9	12624.6	13376.9	11995.3	9786.8	10155.6
67.5°	12847.1	12697.8	12525.1	12715.4	14303.3	14392.6	14596.0	12225.1	9325.8	8932.1
70°	14183.3	14127.7	14334.0	15117.0	17164.6	17167.5	16159.1	12034.8	8062.7	6332.8
72.5°	14006.2	13972.5	15060.0	17480.7	20770.8	20693.2	17638.8	10594.7	5431.2	2856.9
75°	11490.4	11708.4	13393.0	17438.2	22066.0	22055.8	16732.8	6735.3	2246.6	1184.0
77.5°	6161.6	6507.0	8695.0	12874.9	17226.0	17485.1	11764.0	2356.3	964.5	758.1
80°	2009.5	2311.0	3465.7	6555.3	11193.3	11145.0	5041.9	925.0	660.1	537.1
82.5°	853.3	888.4	1548.4	3095.4	5744.4	5655.2	1605.5	531.3	463.9	367.4
85°	333.7	373.2	683.5	1431.4	2488.0	2433.9	579.6	263.4	297.1	240.0
87.5°	109.8	133.2	244.4	490.3	774.2	746.4	142.0	90.7	128.8	109.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P852887  
 CATALOG NUMBER: GLAN-SB7A-850-U-T4FT

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3607.7	0°	3607.7	3607.7	3607.7	3607.7	3607.7	3607.7	3607.7	3607.7	3607.7	3607.7
3617.9	2.5°	3638.4	3661.8	3689.6	3730.6	3765.7	3795.0	3825.7	3844.8	3852.1	3874.0
3623.8	5°	3664.7	3716.0	3784.8	3852.1	3917.9	3957.4	3992.6	4010.1	4026.2	4037.9
3639.9	7.5°	3708.6	3774.5	3882.8	3970.6	4026.2	4058.4	4081.9	4076.0	4081.9	4084.8
3657.4	10°	3746.7	3838.9	3967.7	4051.1	4093.6	4095.0	4089.2	4068.7	4058.4	4059.9
3683.8	12.5°	3792.1	3894.5	4033.6	4103.8	4115.5	4083.3	4058.4	4023.3	4010.1	4004.3
3723.3	15°	3853.5	3970.6	4105.3	4131.6	4102.3	4061.4	4018.9	3961.8	3932.6	3909.2
3790.6	17.5°	3928.2	4057.0	4160.9	4141.9	4078.9	4011.6	3942.8	3856.5	3796.5	3771.6
3882.8	20°	4032.1	4147.7	4203.3	4119.9	4024.8	3922.3	3805.2	3699.9	3644.2	3619.4
3999.9	22.5°	4158.0	4269.2	4244.3	4081.9	3947.2	3783.3	3636.9	3559.4	3531.6	3514.0
4150.6	25°	4308.7	4403.8	4273.6	4026.2	3819.9	3598.9	3486.2	3461.3	3448.1	3435.0
4335.0	27.5°	4504.8	4556.0	4295.5	3944.3	3620.8	3402.8	3361.8	3366.2	3361.8	3339.8
4591.2	30°	4763.9	4753.6	4316.0	3811.1	3392.5	3225.7	3228.6	3247.6	3250.6	3235.9
4948.3	32.5°	5104.9	5001.0	4326.3	3638.4	3174.4	3070.5	3073.5	3094.0	3108.6	3083.7
5415.1	35°	5517.6	5289.3	4310.2	3421.8	3006.1	2922.7	2900.8	2906.6	2911.0	2887.6
5981.5	37.5°	5999.1	5612.7	4238.5	3181.8	2867.1	2777.8	2731.0	2691.5	2668.1	2646.1
6622.6	40°	6527.5	5965.4	4106.7	2947.6	2712.0	2624.2	2553.9	2479.3	2400.2	2371.0
7301.7	42.5°	7080.7	6328.4	3947.2	2723.7	2533.4	2461.7	2387.1	2278.8	2160.2	2100.2
8007.1	45°	7654.4	6700.1	3790.6	2502.7	2350.5	2319.7	2233.4	2103.1	1974.3	1898.2
8714.0	47.5°	8216.4	7051.4	3560.8	2280.2	2179.2	2212.9	2145.6	2025.6	1882.1	1762.1
9415.0	50°	8753.5	7380.7	3184.7	2054.8	2040.2	2180.7	2116.3	1943.6	1779.7	1626.0
10102.9	52.5°	9286.2	7647.1	2703.2	1849.9	1965.6	2171.9	2078.2	1888.0	1687.5	1526.5
10749.8	55°	9738.5	7784.6	2239.2	1674.3	1857.2	2097.3	2032.9	1822.1	1557.2	1386.0
11193.3	57.5°	9996.1	7673.4	1852.9	1501.6	1708.0	1974.3	1955.3	1681.6	1402.1	1270.4
11279.6	60°	9884.8	7222.6	1536.7	1350.9	1566.0	1841.2	1820.7	1542.6	1283.5	1159.1
10817.1	62.5°	9271.6	6363.5	1286.5	1219.1	1437.2	1705.0	1686.0	1435.7	1192.8	1072.8
9589.2	65°	8036.4	5176.6	1091.8	1109.4	1307.0	1541.1	1568.9	1346.5	1121.1	1004.0
7418.8	67.5°	6129.4	3749.6	939.6	1014.2	1179.6	1380.1	1460.6	1282.1	1061.1	949.8
4292.6	70°	3493.5	2129.5	810.8	922.0	1066.9	1230.8	1377.2	1230.8	996.7	904.5
1608.4	72.5°	1324.5	977.7	701.0	829.8	958.6	1105.0	1285.0	1150.4	922.0	853.3
831.3	75°	706.9	595.7	589.8	721.5	834.2	982.0	1169.4	1071.3	866.4	901.5
575.2	77.5°	481.5	421.5	493.2	617.6	698.1	845.9	1046.4	951.3	750.8	747.9
398.1	80°	333.7	298.6	401.0	497.6	540.1	711.3	913.3	816.7	611.8	570.8
245.9	82.5°	200.5	194.7	300.0	371.7	382.0	548.8	756.7	684.9	500.5	436.1
146.4	85°	109.8	115.6	191.7	218.1	222.5	383.5	592.7	529.8	384.9	323.4
52.7	87.5°	30.7	39.5	70.3	86.3	106.8	199.0	352.7	314.7	193.2	134.6
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>
3607.7
3872.6
4040.9
4089.2
4062.8
4001.4
3916.5
3773.0
3616.4
3516.9
3435.0
3344.2
3243.2
3095.4
2903.7
2660.7
2384.1
2107.5
1892.4
1748.9
1612.8
1508.9
1371.4
1252.8
1141.6
1053.8
985.0
932.3
892.8
841.5
930.8
689.3
545.9
439.1
326.4
134.6
0.0

F REPORT)