

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: P849883

Luminaire Tested: **GLAN-SB7A-850-U-SL4**

Issue Date: 6/26/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P849883  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/26/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SB7A-850-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27153 lumens  
Efficiency: N/A  
Efficacy: 136.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

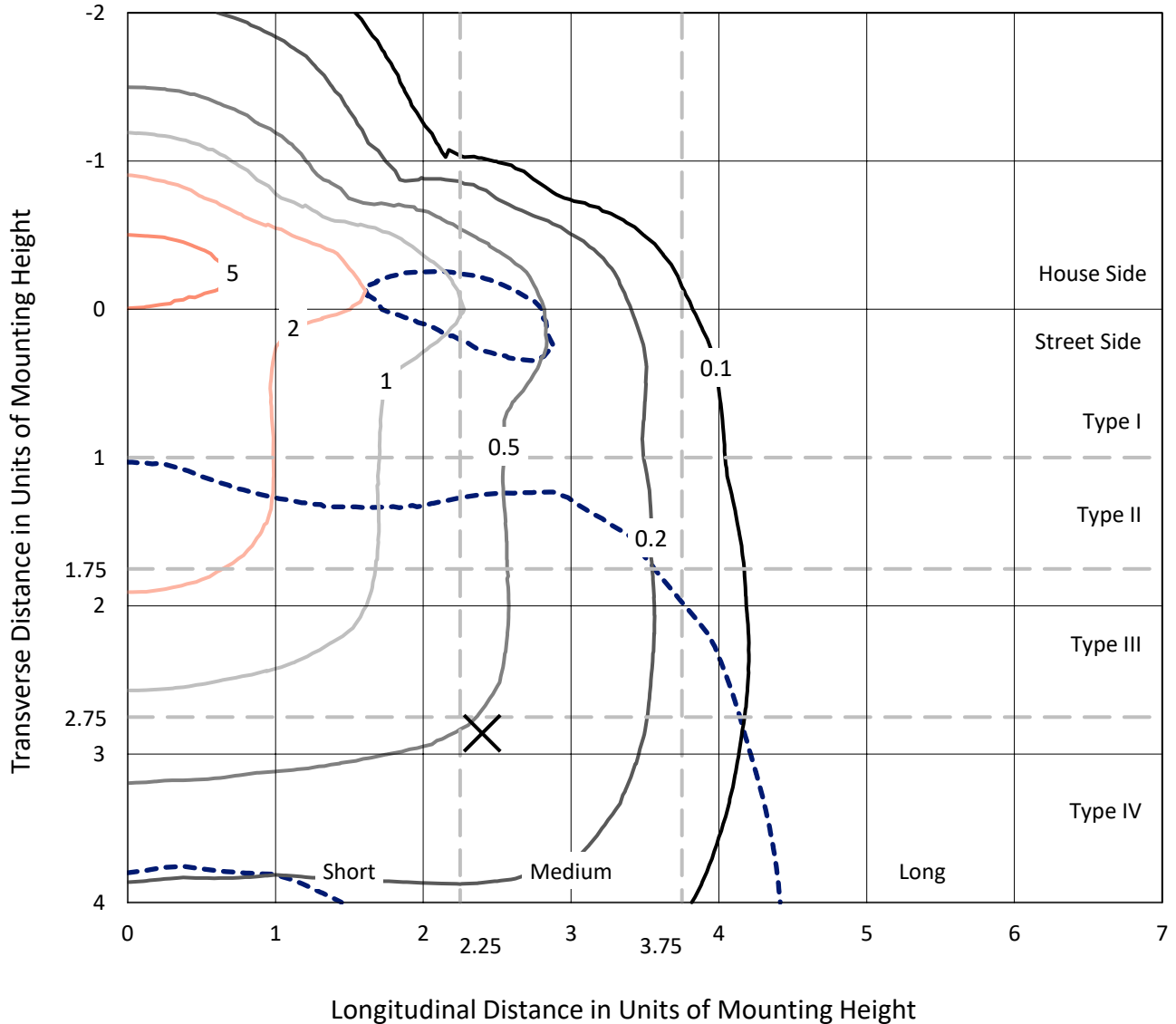
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P849883  
 CATALOG NUMBER: GLAN-SB7A-850-U-SL4

### Iso-Footcandle Lines of Horizontal Illumination

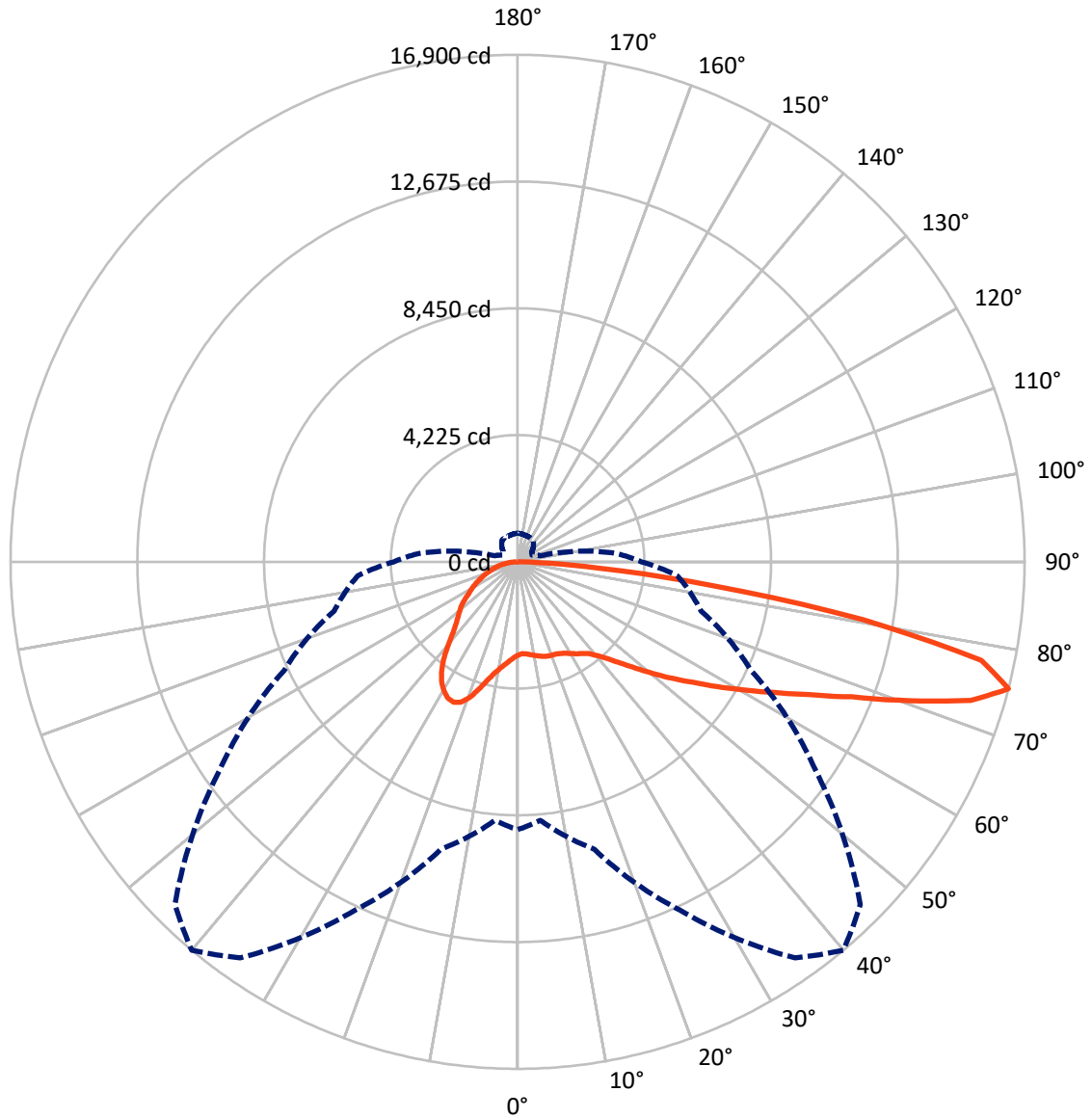
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P849883  
CATALOG NUMBER: GLAN-SB7A-850-U-SL4

### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P849883  
 CATALOG NUMBER: GLAN-SB7A-850-U-SL4

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8412.9	0.0	8412.9
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	18740.1	0.0	18740.1
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	27153.0	0.0	27153.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	309.9	1.1
10°-20°	1040.6	3.8
20°-30°	1900.0	7.0
30°-40°	2694.8	9.9
40°-50°	3638.8	13.4
50°-60°	4895.1	18.0
60°-70°	6213.0	22.9
70°-80°	5638.7	20.8
80°-90°	822.0	3.0
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°	27153.0	100.0
0°-180°	27153.0	100.0

**Coefficient of Utilization**

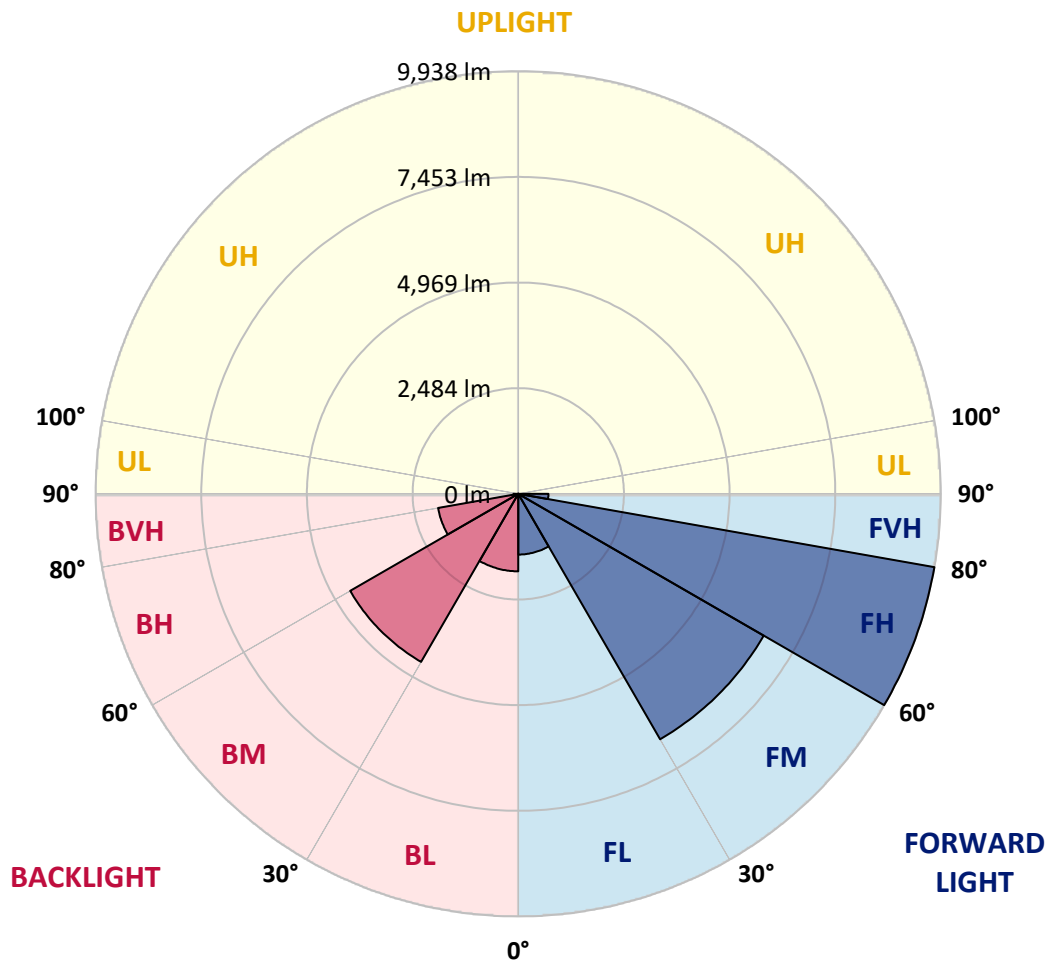


REPORT NUMBER: P849883  
 CATALOG NUMBER: GLAN-SB7A-850-U-SL4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1428.3	5.3			
FM (30°-60°)	6665.5	24.5			
FH (60°-80°)	9937.6	36.6			G4/12000
FVH (80°-90°)	708.8	2.6			G4/750
BL (0°-30°)	1822.3	6.7	B3/2500		
BM (30°-60°)	4563.2	16.8	B3/5000		
BH (60°-80°)	1914.2	7.0	B3/2500		G3/2500
BVH (80°-90°)	113.2	0.4			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 Medium



REPORT NUMBER: P849883  
 CATALOG NUMBER: GLAN-SB7A-850-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	3105.0	3105.0	3105.0	3105.0	3105.0	3105.0	3105.0	3105.0	3105.0	3105.0
2.5°	3057.5	3074.7	3070.4	3064.7	3064.7	3066.1	3064.7	3074.7	3084.8	3094.9
5°	3089.1	3106.4	3097.8	3090.6	3084.8	3083.4	3079.1	3077.6	3083.4	3096.3
7.5°	3151.1	3168.3	3155.4	3142.4	3130.9	3125.1	3119.4	3110.7	3106.4	3113.6
10°	3220.2	3237.5	3221.6	3198.6	3179.9	3172.7	3166.9	3158.3	3152.5	3156.8
12.5°	3289.3	3306.6	3285.0	3253.3	3228.8	3224.5	3217.3	3214.4	3213.0	3211.6
15°	3354.1	3368.5	3341.2	3303.7	3277.8	3270.6	3263.4	3267.7	3274.9	3283.6
17.5°	3404.5	3418.9	3378.6	3329.6	3305.2	3302.3	3298.0	3312.4	3332.5	3354.1
20°	3450.6	3465.0	3413.2	3346.9	3318.1	3318.1	3319.6	3349.8	3378.6	3410.3
22.5°	3515.4	3526.9	3463.6	3372.9	3331.1	3334.0	3345.5	3375.7	3411.7	3454.9
25°	3611.9	3620.6	3542.8	3421.8	3374.3	3382.9	3393.0	3407.4	3442.0	3492.4
27.5°	3767.5	3774.7	3672.4	3508.2	3436.2	3450.6	3465.0	3454.9	3470.8	3514.0
30°	3986.4	3990.7	3861.1	3643.6	3541.3	3548.6	3551.4	3509.7	3479.4	3514.0
32.5°	4245.6	4244.1	4090.1	3807.8	3660.9	3653.7	3629.2	3547.1	3476.5	3506.8
35°	4647.4	4631.5	4432.8	4038.2	3796.3	3751.6	3694.0	3588.9	3490.9	3499.6
37.5°	5312.7	5263.8	4988.7	4415.5	3997.9	3884.1	3799.1	3656.6	3522.6	3496.7
40°	6063.1	6001.1	5698.7	4932.5	4300.3	4117.4	3980.6	3753.1	3574.5	3509.7
42.5°	6953.1	6865.2	6539.8	5541.7	4683.4	4418.4	4212.5	3875.5	3650.8	3551.4
45°	8046.2	7929.5	7468.7	6228.7	5165.8	4813.0	4537.9	4061.2	3767.5	3632.1
47.5°	9150.8	9179.6	8524.3	7015.0	5744.8	5299.8	4945.5	4340.6	3937.4	3761.7
50°	10324.5	10344.7	9574.2	7886.3	6401.5	5849.9	5403.5	4653.2	4173.6	3946.0
52.5°	11240.4	11243.3	10527.6	8797.9	7085.6	6454.8	5897.4	5010.3	4447.2	4190.9
55°	11813.6	11806.4	11195.8	9660.6	7871.9	7089.9	6444.7	5416.4	4781.3	4478.9
57.5°	12229.8	12208.2	11656.6	10402.3	8710.1	7840.2	7064.0	5877.3	5175.9	4821.7
60°	12388.2	12375.3	11969.2	11043.1	9591.5	8669.8	7778.3	6392.9	5623.8	5226.3
62.5°	12448.7	12473.2	12275.9	11663.8	10534.8	9588.6	8563.2	7009.3	6127.9	5684.3
65°	12661.9	12706.5	12666.2	12476.1	11600.5	10664.4	9604.4	7742.3	6678.0	6175.4
67.5°	13083.8	13128.5	13145.8	13448.2	12902.4	12005.2	10903.4	8655.4	7321.8	6685.2
70°	13073.8	13060.8	13366.1	14221.6	14532.6	13861.5	12654.7	9778.7	8089.4	7108.6
72.5°	11900.0	11796.3	12517.9	14212.9	15889.3	15800.0	14793.3	11227.5	8751.8	7160.5
75°	8927.5	8651.0	9925.6	12808.8	16115.4	16900.3	16152.8	12126.1	8594.9	6326.6
77.5°	3817.9	3539.9	5042.0	9482.0	14423.2	15798.5	14905.6	10579.4	6860.9	4183.7
80°	999.5	998.0	1523.7	4298.9	9808.9	11666.7	10235.2	6832.1	3920.1	1494.9
82.5°	413.3	403.2	560.2	1672.0	4792.8	6547.0	5343.0	3047.4	1415.7	404.7
85°	154.1	152.7	272.2	577.5	1690.7	2700.3	1954.3	779.1	352.8	197.3
87.5°	43.2	41.8	59.0	200.2	411.9	625.0	334.1	128.2	99.4	77.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P849883  
 CATALOG NUMBER: GLAN-SB7A-850-U-SL4

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3105.0	0°	3105.0	3105.0	3105.0	3105.0	3105.0	3105.0	3105.0	3105.0	3105.0	3105.0
3110.7	2.5°	3115.1	3122.3	3135.2	3145.3	3158.3	3172.7	3192.8	3205.8	3218.8	3227.4
3117.9	5°	3128.0	3143.9	3177.0	3210.1	3249.0	3285.0	3326.8	3357.0	3381.5	3388.7
3143.9	7.5°	3156.8	3182.8	3238.9	3295.1	3357.0	3416.1	3476.5	3528.4	3570.2	3586.0
3190.0	10°	3207.2	3241.8	3321.0	3400.2	3482.3	3573.0	3650.8	3725.7	3784.7	3809.2
3244.7	12.5°	3270.6	3313.8	3417.5	3526.9	3640.7	3766.0	3866.8	3959.0	4032.4	4065.6
3321.0	15°	3352.7	3408.9	3541.3	3688.2	3855.3	4029.6	4157.7	4260.0	4342.1	4382.4
3400.2	17.5°	3442.0	3516.9	3683.9	3905.7	4144.8	4373.8	4523.5	4598.4	4683.4	4722.3
3473.7	20°	3528.4	3620.6	3859.6	4182.2	4500.5	4743.9	4864.9	4885.0	4890.8	4895.1
3542.8	22.5°	3617.7	3741.5	4080.0	4530.7	4872.1	5040.6	5057.8	4971.4	4850.5	4794.3
3610.5	25°	3715.6	3879.8	4368.0	4915.3	5191.8	5211.9	5079.4	4869.2	4640.2	4535.1
3665.2	27.5°	3810.7	4039.6	4713.6	5282.5	5422.2	5245.1	4959.9	4661.8	4385.3	4274.4
3704.1	30°	3905.7	4222.5	5095.3	5603.7	5527.3	5163.0	4771.2	4438.6	4160.6	4044.0
3738.7	32.5°	4002.2	4435.7	5534.5	5835.5	5508.6	4988.7	4536.5	4188.0	3943.2	3820.7
3768.9	35°	4111.7	4697.8	5950.7	5962.3	5383.3	4732.4	4226.9	3888.4	3675.3	3577.4
3804.9	37.5°	4254.2	5030.5	6318.0	5993.9	5164.4	4356.5	3842.3	3534.1	3358.4	3313.8
3858.2	40°	4431.4	5430.8	6598.8	5943.5	4840.4	3899.9	3421.8	3175.5	3076.2	3086.3
3930.2	42.5°	4661.8	5878.7	6796.1	5813.9	4389.6	3429.0	3053.1	2943.7	2991.2	3031.5
4038.2	45°	4961.3	6343.9	6918.5	5593.6	3879.8	3030.1	2835.7	2861.6	2897.6	2901.9
4212.5	47.5°	5344.4	6814.8	6999.2	5260.9	3359.9	2749.3	2697.4	2703.2	2696.0	2665.7
4473.1	50°	5822.6	7272.8	7071.2	4820.2	2917.8	2573.6	2504.4	2484.3	2384.9	2287.0
4820.2	52.5°	6366.9	7693.3	7101.4	4273.0	2573.6	2426.7	2314.3	2187.6	2001.8	1971.6
5256.6	55°	6971.8	8082.2	7023.7	3600.4	2284.1	2238.0	2068.1	1915.4	1895.2	1869.3
5831.2	57.5°	7694.8	8501.3	6865.2	2850.1	1987.4	2017.7	1852.0	1869.3	1833.3	1793.0
6570.0	60°	8485.4	8934.7	6587.3	2166.0	1680.7	1742.6	1795.9	1794.4	1784.4	1751.2
7349.1	62.5°	9196.9	9219.9	6040.0	1659.1	1411.4	1529.4	1674.9	1673.5	1664.8	1646.1
8162.8	65°	9620.3	9176.7	5127.0	1306.2	1189.6	1353.7	1510.7	1522.2	1523.7	1522.2
8774.9	67.5°	9545.4	8671.2	3874.0	1039.8	1006.7	1175.2	1348.0	1363.8	1375.4	1378.2
8852.7	70°	8698.6	7560.8	2526.0	829.5	843.9	1018.2	1193.9	1209.7	1219.8	1231.3
7681.8	72.5°	6780.3	5559.0	1445.9	671.1	701.4	882.8	1041.2	1060.0	1065.7	1087.3
5345.9	75°	4131.8	3269.2	780.6	528.5	576.1	754.6	890.0	911.6	921.7	947.6
2625.4	77.5°	1964.4	1415.7	445.0	411.9	463.7	616.4	751.8	776.2	748.9	763.3
724.4	80°	663.9	525.7	280.8	314.0	354.3	481.0	602.0	626.5	568.9	566.0
240.5	82.5°	231.9	213.1	178.6	208.8	229.0	344.2	455.1	486.8	423.4	422.0
108.0	85°	90.7	86.4	99.4	113.8	136.8	211.7	299.6	315.4	260.7	210.3
31.7	87.5°	18.7	20.2	24.5	25.9	41.8	73.4	108.0	132.5	105.1	89.3
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°
3105.0
3221.6
3391.6
3587.4
3810.7
4065.6
4379.5
4720.8
4906.6
4810.1
4550.9
4287.4
4056.9
3836.6
3599.0
3345.5
3120.8
3069.0
2930.7
2688.8
2299.9
1981.7
1873.6
1785.8
1739.7
1638.9
1522.2
1381.1
1237.1
1096.0
950.5
751.8
560.2
401.8
207.4
82.1
0.0

F REPORT)