

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: P850356

Luminaire Tested: **GLAN-SB7D-827-U-T2**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850356
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SB7D-827-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57172 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

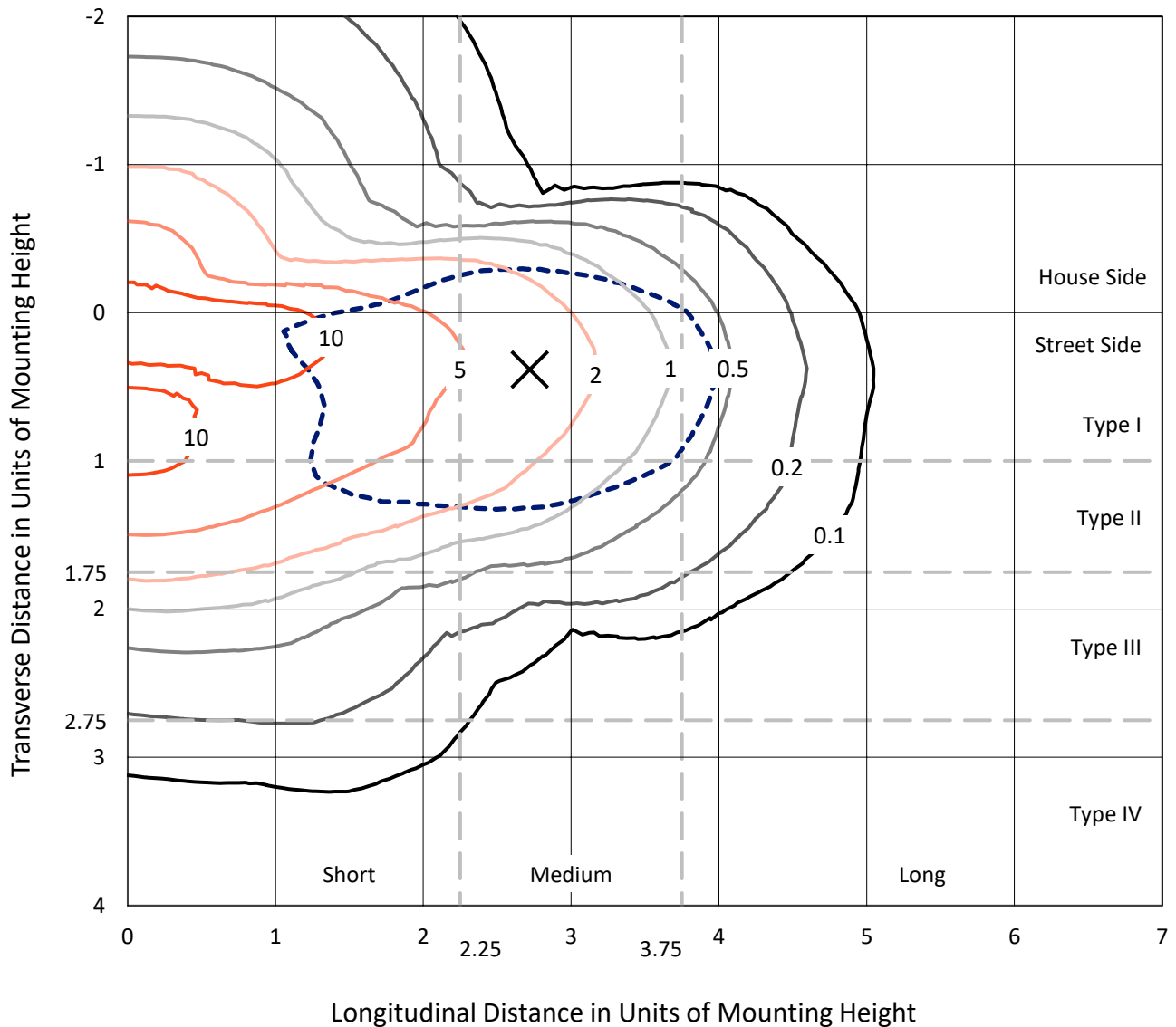
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P850356
 CATALOG NUMBER: GLAN-SB7D-827-U-T2

Iso-Footcandle Lines of Horizontal Illumination

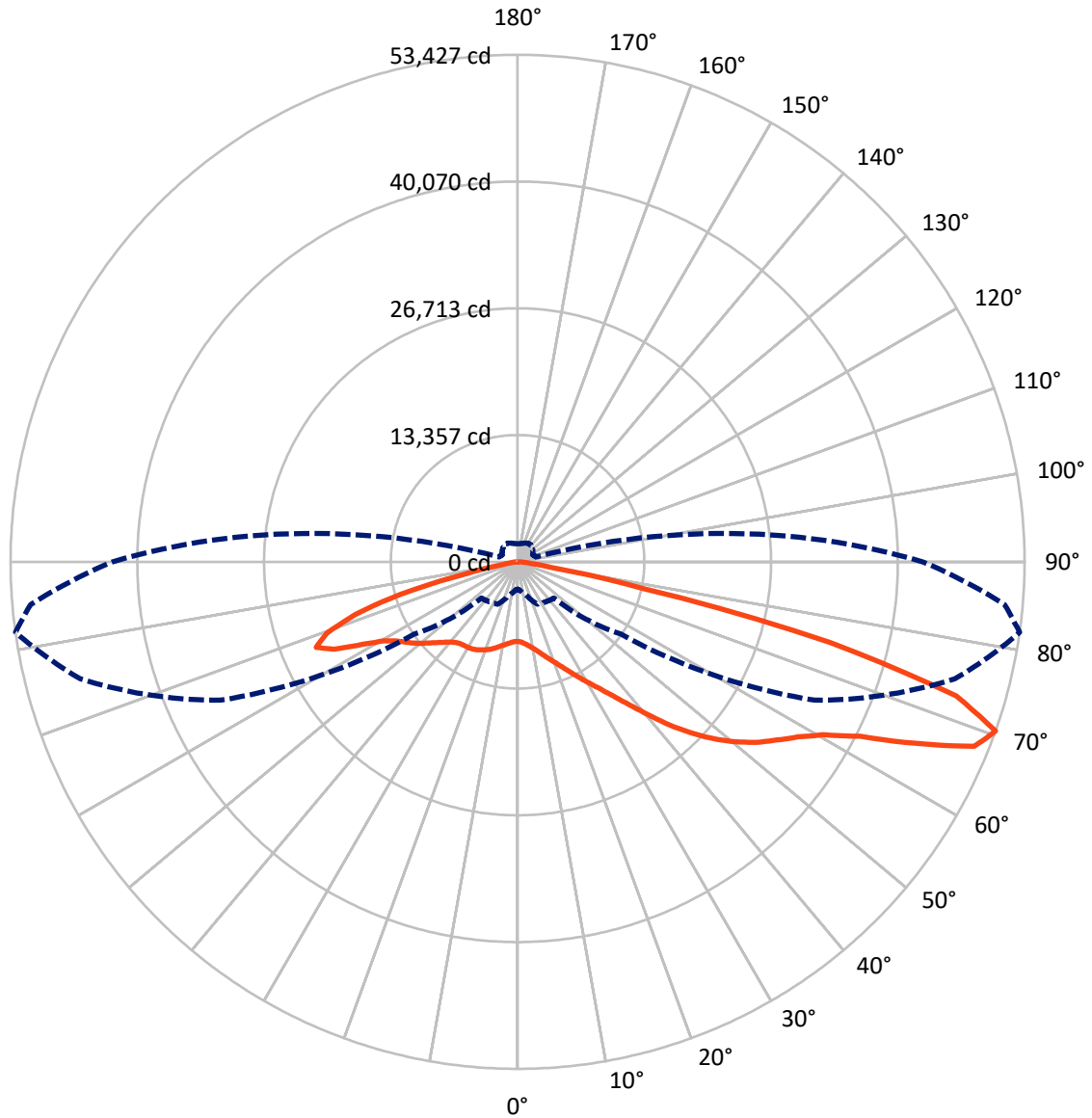
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P850356
CATALOG NUMBER: GLAN-SB7D-827-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P850356
 CATALOG NUMBER: GLAN-SB7D-827-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14094.3	0.0	14094.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	43077.7	0.0	43077.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	57172.0	0.0	57172.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	791.4	1.4
10°-20°	2273.8	4.0
20°-30°	3803.8	6.7
30°-40°	5942.6	10.4
40°-50°	9464.2	16.6
50°-60°	13170.7	23.0
60°-70°	13777.1	24.1
70°-80°	7200.7	12.6
80°-90°	747.7	1.3
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°	57172.0	100.0
0°-180°	57172.0	100.0

Coefficient of Utilization



REPORT NUMBER: P850356

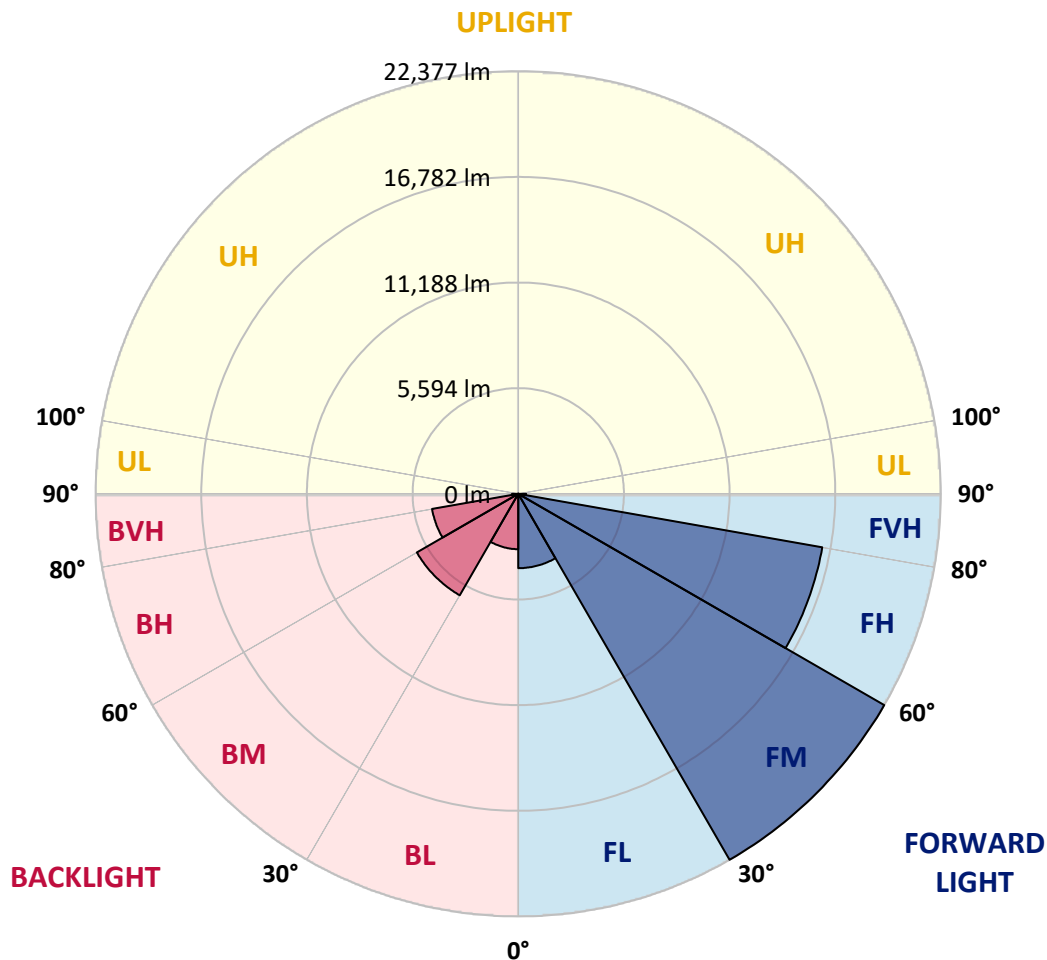
CATALOG NUMBER: GLAN-SB7D-827-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3936.9	6.9			
FM (30°-60°)	22376.5	39.1			
FH (60°-80°)	16345.7	28.6			G5
FVH (80°-90°)	418.6	0.7			G3/500
BL (0°-30°)	2932.1	5.1	B4/5000		
BM (30°-60°)	6200.9	10.8	B4/8500		
BH (60°-80°)	4632.1	8.1	B4/5000		G4/5000
BVH (80°-90°)	329.1	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



REPORT NUMBER: P850356
 CATALOG NUMBER: GLAN-SB7D-827-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	8382.1	8382.1	8382.1	8382.1	8382.1	8382.1	8382.1	8382.1	8382.1	8382.1
2.5°	8582.4	8630.9	8615.7	8600.6	8600.6	8579.3	8576.3	8546.0	8521.7	8482.2
5°	8691.6	8743.1	8737.1	8749.2	8788.6	8797.7	8806.8	8788.6	8740.1	8691.6
7.5°	8594.5	8652.1	8670.3	8743.1	8864.5	8973.7	9055.6	9089.0	9043.5	8973.7
10°	8266.8	8330.6	8394.3	8567.2	8782.6	9040.4	9258.9	9389.3	9380.2	9313.5
12.5°	7602.5	7669.2	7805.7	8142.5	8536.8	8991.9	9398.4	9671.5	9765.5	9717.0
15°	7071.6	7129.2	7232.4	7578.2	8090.9	8782.6	9450.0	9980.9	10220.6	10193.3
17.5°	7056.4	7080.7	7144.4	7308.2	7702.6	8454.9	9395.4	10284.3	10742.4	10739.3
20°	7323.4	7332.5	7368.9	7402.2	7626.7	8206.2	9255.8	10536.1	11327.9	11327.9
22.5°	7693.5	7687.4	7723.8	7693.5	7802.7	8184.9	9167.9	10757.5	11980.1	12028.6
25°	8248.6	8218.3	8209.2	8139.4	8160.7	8382.1	9264.9	11009.3	12753.7	12853.8
27.5°	8988.9	8940.3	8907.0	8746.2	8691.6	8788.6	9562.2	11312.7	13615.3	13788.2
30°	9953.6	9865.6	9817.1	9538.0	9340.8	9355.9	10011.2	11716.2	14516.3	14795.4
32.5°	11270.2	11133.7	11003.3	10545.2	10184.2	10065.8	10590.7	12274.4	15493.1	15939.1
35°	12744.6	12635.4	12495.8	11789.0	11233.8	10960.8	11373.4	13054.0	16636.8	17343.7
37.5°	14164.4	14070.3	14137.1	13184.5	12468.5	12071.1	12398.8	14100.7	18047.5	19091.1
40°	15632.7	15559.9	15569.0	14658.9	13824.6	13378.6	13642.6	15414.3	19664.5	21169.2
42.5°	17228.4	17173.8	16991.8	16184.8	15247.4	14831.8	15074.5	16931.1	21399.8	23535.5
45°	19015.3	18981.9	18812.0	17886.7	16812.8	16345.6	16673.2	18605.7	23144.1	25762.2
47.5°	20559.4	20586.7	20565.5	19785.8	18672.5	17986.8	18378.2	20353.1	24767.2	27855.5
50°	21302.7	21445.3	21654.6	21411.9	20720.2	20022.5	20098.3	22039.9	26314.4	29818.3
52.5°	20914.4	21184.4	21754.7	22143.0	22410.0	22264.4	22061.1	23714.5	27770.5	31590.0
55°	19467.3	19846.5	20793.0	21730.4	23092.6	24151.3	24418.3	25571.1	29190.3	33149.3
57.5°	16831.0	17446.8	18296.3	20192.3	22485.8	25064.5	27166.8	28146.7	30695.0	34814.8
60°	12310.8	13135.9	14191.7	17013.0	20362.2	24576.1	29505.8	32102.7	32833.8	36971.8
62.5°	7878.5	8388.2	9359.0	12016.5	15866.3	22073.2	30221.8	37047.6	36459.1	40509.1
65°	5393.9	5721.6	6610.4	8103.0	10257.0	16430.6	28304.5	40754.8	42217.1	46115.4
67.5°	3919.5	4168.3	4926.7	6234.3	6683.3	9723.0	21964.0	40584.9	47814.2	51891.5
70°	2857.8	3033.7	3670.8	4926.7	5142.1	5409.1	13305.8	34499.3	47692.9	53426.6
72.5°	2117.5	2238.9	2666.6	3822.5	4162.2	3652.6	6586.2	25073.6	40982.3	48323.9
75°	1532.0	1623.0	1938.5	2924.5	3331.0	2781.9	3285.5	14652.8	28586.6	33992.7
77.5°	1171.0	1240.8	1447.1	2141.8	2666.6	2087.2	2038.7	6740.9	13554.6	13621.3
80°	940.4	986.0	1098.2	1507.8	2044.7	1562.4	1328.8	2721.2	4283.6	3625.3
82.5°	691.7	767.5	928.3	1058.8	1462.2	1077.0	810.0	1374.3	1629.1	1401.6
85°	394.4	446.0	561.2	758.4	934.4	658.3	464.2	609.8	758.4	621.9
87.5°	139.6	182.0	197.2	297.3	406.5	273.0	179.0	176.0	248.8	185.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P850356
 CATALOG NUMBER: GLAN-SB7D-827-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
8382.1	0°	8382.1	8382.1	8382.1	8382.1	8382.1	8382.1	8382.1	8382.1	8382.1	8382.1
8473.1	2.5°	8442.8	8427.6	8367.0	8285.1	8200.1	8118.2	8090.9	8033.3	7993.8	7972.6
8670.3	5°	8612.7	8564.2	8421.6	8239.5	8048.4	7842.1	7696.5	7563.0	7466.0	7374.9
8940.3	7.5°	8855.4	8770.4	8524.7	8206.2	7866.4	7523.6	7268.8	7074.6	6944.2	6859.2
9255.8	10°	9137.5	9007.1	8630.9	8154.6	7629.8	7138.3	6838.0	6671.1	6589.2	6543.7
9616.8	12.5°	9462.1	9277.1	8740.1	8036.3	7268.8	6707.5	6501.2	6452.7	6455.7	6458.8
10071.9	15°	9862.6	9604.7	8828.1	7778.4	6798.5	6376.9	6340.4	6419.3	6501.2	6540.7
10587.6	17.5°	10314.6	9950.6	8843.3	7353.7	6337.4	6164.5	6279.8	6449.7	6574.0	6628.6
11164.0	20°	10800.0	10302.5	8734.0	6753.0	5958.2	5991.6	6197.9	6416.3	6552.8	6622.6
11822.4	22.5°	11355.2	10678.6	8473.1	6122.0	5648.8	5803.5	6046.2	6258.5	6401.1	6470.9
12595.9	25°	11989.2	11100.3	8063.6	5591.1	5381.8	5591.1	5833.8	6009.8	6125.1	6188.8
13460.6	27.5°	12693.0	11540.2	7517.5	5169.4	5148.2	5372.7	5572.9	5709.4	5770.1	5818.6
14379.8	30°	13399.9	11940.7	6856.2	4850.9	4944.9	5157.3	5299.9	5360.6	5378.8	5387.9
15405.2	32.5°	14164.4	12286.5	6161.5	4587.0	4750.8	4948.0	5032.9	5060.2	4975.3	4917.6
16649.0	35°	15089.7	12656.6	5481.9	4377.6	4559.7	4729.5	4756.9	4732.6	4632.5	4514.2
18208.3	37.5°	16233.4	13117.7	4938.9	4229.0	4380.7	4492.9	4459.5	4453.5	4462.6	4323.0
20083.1	40°	17634.9	13718.4	4541.5	4113.7	4235.1	4259.3	4165.3	4216.9	4262.4	4050.0
22140.0	42.5°	19191.2	14443.5	4289.7	4034.8	4113.7	4056.1	3910.4	3968.1	3962.0	3682.9
24205.9	45°	20777.9	15232.2	4201.7	3977.2	4001.5	3886.2	3725.4	3740.6	3613.1	3361.3
26187.0	47.5°	22355.4	16078.6	4256.3	3928.6	3861.9	3731.5	3607.1	3540.3	3352.2	3164.2
28086.1	50°	23902.6	16967.5	4456.5	3831.6	3670.8	3594.9	3503.9	3385.6	3185.4	3024.6
29882.0	52.5°	25337.5	17862.5	4681.0	3670.8	3431.1	3476.6	3419.0	3282.5	3085.3	2921.5
31580.9	55°	26696.6	18757.4	4769.0	3449.3	3206.6	3373.5	3340.1	3088.3	2851.7	2718.2
33358.6	57.5°	28177.1	19834.4	4671.9	3167.2	3024.6	3255.2	3127.8	2848.7	2712.1	2612.0
35673.4	60°	30227.8	21524.1	4462.6	2818.3	2851.7	3079.2	2860.8	2745.5	2596.9	2484.6
39143.9	62.5°	33634.7	24676.2	4125.8	2472.5	2648.4	2818.3	2733.4	2618.1	2466.4	2357.2
45077.8	65°	38670.7	29056.8	3491.8	2202.5	2420.9	2563.5	2596.9	2481.6	2323.8	2208.5
50277.6	67.5°	42917.8	31805.4	2642.4	1978.0	2187.3	2357.2	2451.2	2339.0	2172.1	2059.9
51494.1	70°	42684.2	29809.2	2017.4	1756.5	1981.0	2153.9	2275.3	2187.3	2008.3	1902.1
46773.7	72.5°	37912.2	24937.1	1632.1	1532.0	1771.7	1941.6	2087.2	2020.4	1838.4	1735.3
34265.7	75°	27852.5	17701.7	1304.5	1304.5	1510.8	1720.1	1880.9	1838.4	1671.6	1598.8
14385.8	77.5°	11740.4	7426.5	1022.4	1083.0	1256.0	1477.4	1677.6	1692.8	1547.2	1638.2
3804.3	80°	3121.7	2047.8	779.7	852.5	986.0	1219.5	1459.2	1453.1	1295.4	1210.4
1413.7	82.5°	1189.2	807.0	555.2	600.7	712.9	934.4	1155.8	1192.2	1034.5	894.9
555.2	85°	458.1	345.8	342.8	361.0	415.6	618.9	873.7	904.0	779.7	661.3
154.7	87.5°	118.3	103.1	127.4	121.3	191.1	330.7	500.6	518.8	476.3	276.1
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°
8382.1
7996.8
7411.3
6877.4
6555.8
6464.8
6537.6
6640.8
6640.8
6489.1
6207.0
5836.9
5409.1
4935.8
4520.2
4332.1
4056.1
3679.9
3370.4
3164.2
3012.5
2924.5
2706.1
2602.9
2478.5
2357.2
2214.6
2062.9
1911.2
1735.3
1577.5
1486.5
1125.5
894.9
682.6
394.4
0.0

F REPORT)