

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: P850383

Luminaire Tested: **GLAN-SB7D-840-U-SL4**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P850383
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-SB7D-840-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63796 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

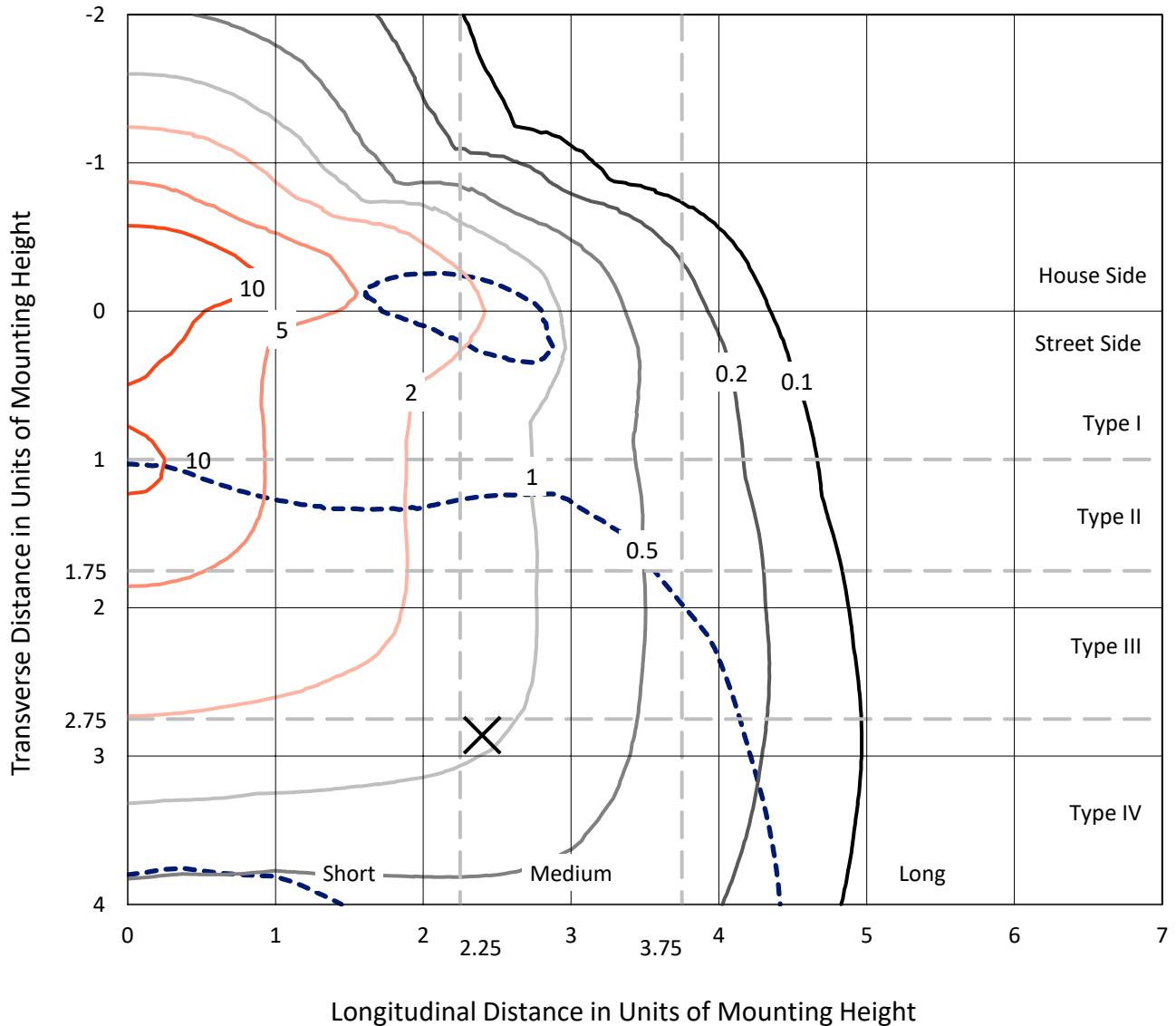
Input Watts (W): 512.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P850383
 CATALOG NUMBER: GLAN-SB7D-840-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

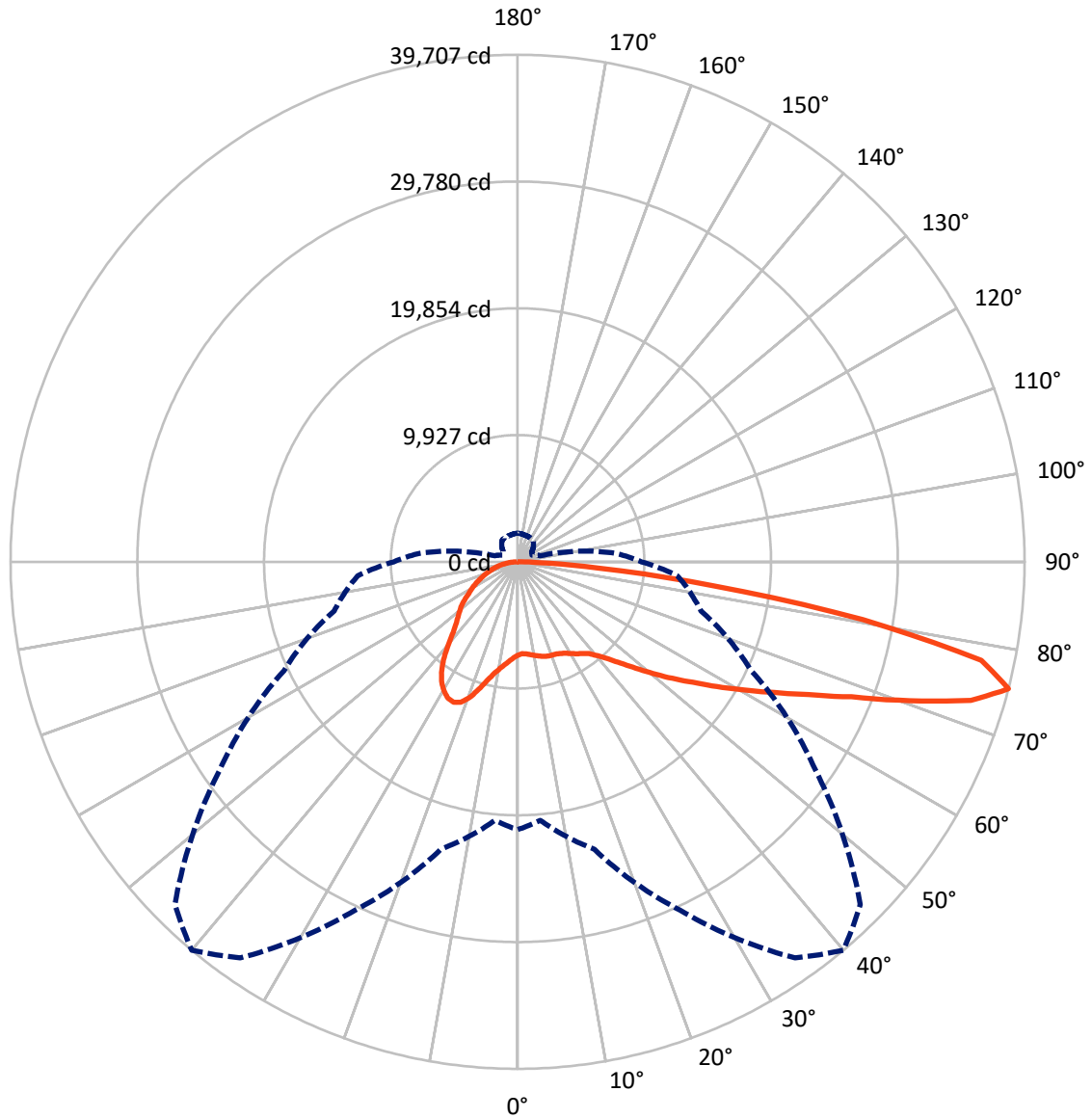
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type IV - Medium - N/A

REPORT NUMBER: P850383
CATALOG NUMBER: GLAN-SB7D-840-U-SL4

Luminous Intensity Polar Plot



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

REPORT NUMBER: P850383
 CATALOG NUMBER: GLAN-SB7D-840-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19766.1	0.0	19766.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	44029.9	0.0	44029.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	63796.0	0.0	63796.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	728.2	1.1
10°-20°	2444.9	3.8
20°-30°	4464.2	7.0
30°-40°	6331.4	9.9
40°-50°	8549.3	13.4
50°-60°	11501.1	18.0
60°-70°	14597.6	22.9
70°-80°	13248.2	20.8
80°-90°	1931.2	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°	63796.0	100.0
0°-180°	63796.0	100.0

Coefficient of Utilization

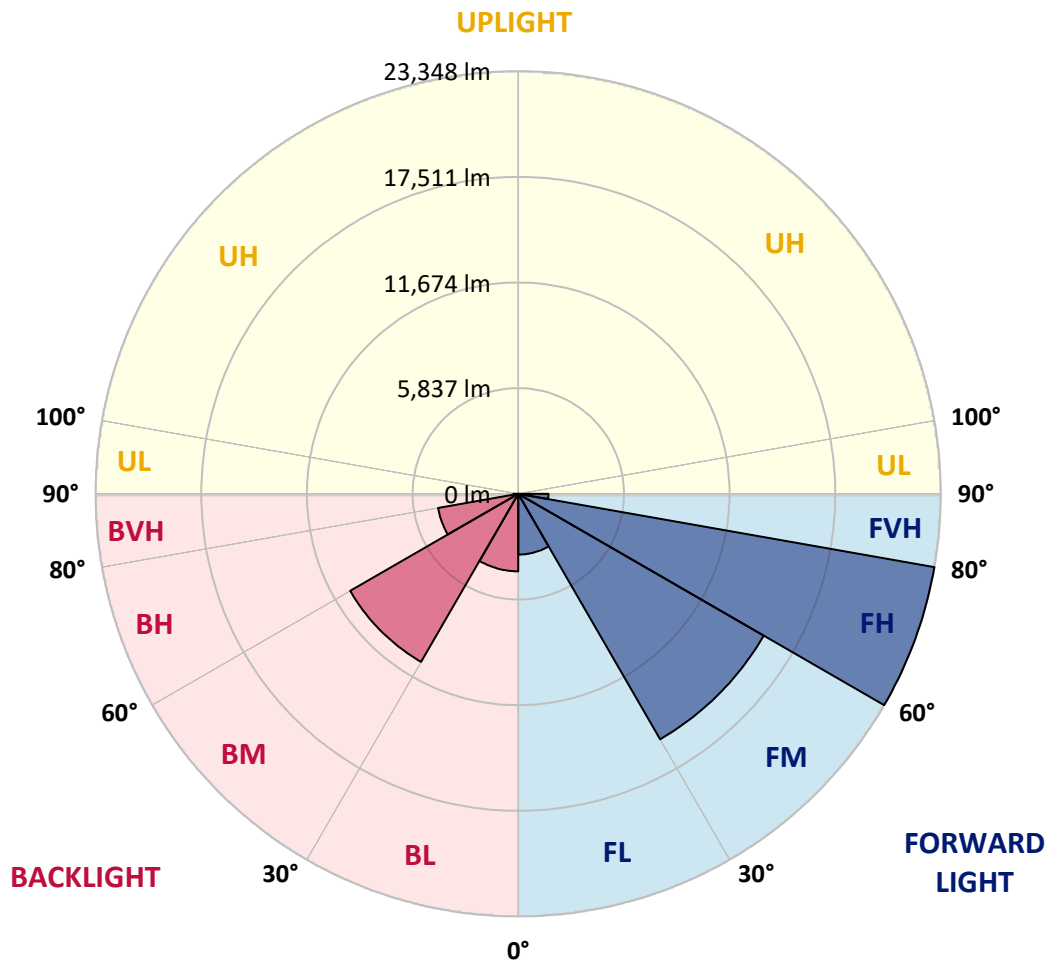


REPORT NUMBER: P850383
 CATALOG NUMBER: GLAN-SB7D-840-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3355.7	5.3			
FM (30°-60°)	15660.5	24.5			
FH (60°-80°)	23348.4	36.6			G5
FVH (80°-90°)	1665.3	2.6			G5
BL (0°-30°)	4281.5	6.7	B4/5000		
BM (30°-60°)	10721.4	16.8	B5		
BH (60°-80°)	4497.4	7.0	B4/5000		G4/5000
BVH (80°-90°)	265.9	0.4			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type IV Medium



REPORT NUMBER: P850383
 CATALOG NUMBER: GLAN-SB7D-840-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	7295.2	7295.2	7295.2	7295.2	7295.2	7295.2	7295.2	7295.2	7295.2	7295.2
2.5°	7183.5	7224.1	7213.9	7200.4	7200.4	7203.8	7200.4	7224.1	7247.8	7271.5
5°	7257.9	7298.5	7278.2	7261.3	7247.8	7244.4	7234.3	7230.9	7244.4	7274.9
7.5°	7403.4	7444.0	7413.6	7383.1	7356.1	7342.5	7329.0	7308.7	7298.5	7315.5
10°	7565.8	7606.5	7569.2	7515.1	7471.1	7454.2	7440.7	7420.4	7406.8	7417.0
12.5°	7728.3	7768.9	7718.1	7643.7	7586.2	7576.0	7559.1	7552.3	7548.9	7545.5
15°	7880.5	7914.4	7850.1	7762.1	7701.2	7684.3	7667.4	7677.5	7694.4	7714.7
17.5°	7999.0	8032.8	7938.1	7823.0	7765.5	7758.7	7748.6	7782.4	7829.8	7880.5
20°	8107.2	8141.1	8019.3	7863.6	7795.9	7795.9	7799.3	7870.4	7938.1	8012.5
22.5°	8259.5	8286.6	8137.7	7924.5	7826.4	7833.2	7860.2	7931.3	8015.9	8117.4
25°	8486.2	8506.5	8323.8	8039.6	7927.9	7948.2	7971.9	8005.7	8086.9	8205.4
27.5°	8851.6	8868.6	8628.3	8242.6	8073.4	8107.2	8141.1	8117.4	8154.6	8256.1
30°	9366.0	9376.1	9071.6	8560.6	8320.4	8337.3	8344.1	8246.0	8174.9	8256.1
32.5°	9975.0	9971.6	9609.6	8946.4	8601.2	8584.3	8526.8	8333.9	8168.1	8239.2
35°	10919.1	10881.8	10414.9	9487.8	8919.3	8814.4	8679.1	8432.1	8202.0	8222.3
37.5°	12482.3	12367.3	11721.0	10374.3	9393.0	9125.7	8926.1	8591.1	8276.4	8215.5
40°	14245.2	14099.7	13389.1	11589.0	10103.6	9673.9	9352.4	8817.8	8398.2	8246.0
42.5°	16336.3	16129.9	15365.2	13020.3	11003.6	10381.0	9897.2	9105.4	8577.6	8344.1
45°	18904.5	18630.4	17547.6	14634.3	12137.2	11308.2	10661.9	9541.9	8851.6	8533.6
47.5°	21499.7	21567.4	20027.8	16481.8	13497.4	12451.8	11619.5	10198.3	9250.9	8838.1
50°	24257.4	24304.8	22494.5	18528.9	15040.3	13744.4	12695.5	10932.6	9805.8	9271.2
52.5°	26409.4	26416.2	24734.5	20670.7	16647.6	15165.5	13856.1	11771.7	10448.7	9846.4
55°	27756.1	27739.2	26304.5	22697.5	18495.1	16657.7	15141.9	12725.9	11233.7	10523.2
57.5°	28734.0	28683.2	27387.3	24440.1	20464.3	18420.6	16596.8	13808.7	12160.9	11328.5
60°	29106.2	29075.7	28121.5	25945.9	22535.1	20369.6	18275.1	15020.0	13213.2	12279.3
62.5°	29248.3	29305.8	28842.3	27404.2	24751.4	22528.4	20119.2	16468.2	14397.4	13355.3
65°	29749.1	29854.0	29759.2	29312.6	27255.3	25056.0	22565.6	18190.5	15690.0	14509.1
67.5°	30740.5	30845.4	30886.0	31596.6	30314.2	28206.1	25617.6	20335.8	17202.5	15706.9
70°	30716.8	30686.4	31403.7	33413.6	34144.5	32567.7	29732.2	22975.0	19006.0	16701.7
72.5°	27959.1	27715.5	29410.7	33393.3	37331.9	37122.1	34756.9	26379.0	20562.5	16823.5
75°	20975.3	20325.6	23320.1	30094.2	37863.1	39707.2	37951.1	28490.4	20193.6	14864.4
77.5°	8970.1	8317.0	11846.2	22278.0	33887.3	37118.7	35020.8	24856.3	16119.7	9829.5
80°	2348.3	2344.9	3579.9	10100.2	23046.1	27411.0	24047.6	16052.1	9210.3	3512.2
82.5°	971.1	947.4	1316.2	3928.4	11260.8	15382.1	12553.4	7159.8	3326.1	950.8
85°	362.1	358.7	639.5	1356.8	3972.4	6344.4	4591.6	1830.6	829.0	463.6
87.5°	101.5	98.1	138.7	470.3	967.7	1468.5	785.0	301.1	233.5	182.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P850383
 CATALOG NUMBER: GLAN-SB7D-840-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7295.2	0°	7295.2	7295.2	7295.2	7295.2	7295.2	7295.2	7295.2	7295.2	7295.2	7295.2
7308.7	2.5°	7318.8	7335.8	7366.2	7389.9	7420.4	7454.2	7501.6	7532.0	7562.5	7582.8
7325.6	5°	7349.3	7386.5	7464.3	7542.2	7633.5	7718.1	7816.2	7887.3	7944.8	7961.7
7386.5	7.5°	7417.0	7477.9	7609.8	7741.8	7887.3	8026.0	8168.1	8290.0	8388.1	8425.3
7494.8	10°	7535.4	7616.6	7802.7	7988.8	8181.7	8394.8	8577.6	8753.5	8892.2	8949.8
7623.4	12.5°	7684.3	7785.8	8029.4	8286.6	8553.9	8848.3	9085.1	9301.7	9474.2	9552.1
7802.7	15°	7877.1	8009.1	8320.4	8665.5	9058.0	9467.5	9768.6	10008.8	10201.7	10296.5
7988.8	17.5°	8086.9	8262.9	8655.4	9176.5	9738.2	10276.2	10628.1	10804.0	11003.6	11095.0
8161.4	20°	8290.0	8506.5	9068.2	9826.1	10573.9	11145.8	11430.0	11477.4	11490.9	11501.0
8323.8	22.5°	8499.7	8790.7	9585.9	10645.0	11446.9	11842.8	11883.4	11680.4	11396.1	11264.2
8482.8	25°	8729.8	9115.6	10262.6	11548.4	12198.1	12245.4	11934.1	11440.1	10902.1	10655.1
8611.4	27.5°	8953.1	9491.1	11074.7	12411.2	12739.5	12323.3	11653.3	10952.9	10303.2	10042.7
8702.8	30°	9176.5	9920.9	11971.4	13165.8	12986.5	12130.4	11210.0	10428.4	9775.4	9501.3
8784.0	32.5°	9403.2	10421.7	13003.4	13710.6	12942.5	11721.0	10658.5	9839.7	9264.4	8976.8
8855.0	35°	9660.3	11037.5	13981.3	14008.3	12648.1	11118.7	9931.0	9135.9	8635.1	8405.0
8939.6	37.5°	9995.3	11819.1	14844.1	14082.8	12133.8	10235.6	9027.6	8303.5	7890.7	7785.8
9064.8	40°	10411.5	12759.8	15503.9	13964.3	11372.5	9162.9	8039.6	7461.0	7227.5	7251.2
9234.0	42.5°	10952.9	13812.1	15967.5	13659.8	10313.4	8056.5	7173.3	6916.2	7027.8	7122.6
9487.8	45°	11656.7	14905.0	16255.1	13142.1	9115.6	7119.2	6662.4	6723.3	6807.9	6818.1
9897.2	47.5°	12556.7	16011.4	16444.6	12360.5	7894.1	6459.4	6337.6	6351.1	6334.2	6263.1
10509.6	50°	13680.1	17087.5	16613.7	11325.1	6855.3	6046.6	5884.2	5836.8	5603.3	5373.2
11325.1	52.5°	14959.1	18075.5	16684.8	10039.3	6046.6	5701.5	5437.5	5139.8	4703.3	4632.2
12350.3	55°	16380.3	18989.1	16502.1	8459.1	5366.5	5258.2	4858.9	4500.3	4452.9	4392.0
13700.4	57.5°	18078.9	19973.7	16129.9	6696.3	4669.4	4740.5	4351.4	4392.0	4307.4	4212.6
15436.2	60°	19936.5	20992.2	15476.8	5089.0	3948.7	4094.2	4219.4	4216.0	4192.3	4114.5
17266.8	62.5°	21608.0	21662.2	14191.0	3898.0	3316.0	3593.4	3935.2	3931.8	3911.5	3867.5
19178.5	65°	22602.8	21560.6	12045.8	3069.0	2794.9	3180.6	3549.5	3576.5	3579.9	3576.5
20616.6	67.5°	22426.9	20373.0	9102.0	2443.0	2365.2	2761.1	3167.1	3204.3	3231.4	3238.2
20799.3	70°	20437.3	17764.2	5934.9	1949.0	1982.8	2392.2	2805.0	2842.3	2866.0	2893.0
18048.4	72.5°	15930.2	13060.9	3397.2	1576.8	1647.8	2074.2	2446.4	2490.4	2503.9	2554.7
12560.1	75°	9707.7	7680.9	1833.9	1241.8	1353.5	1773.0	2091.1	2141.9	2165.5	2226.4
6168.4	77.5°	4615.3	3326.1	1045.5	967.7	1089.5	1448.2	1766.3	1823.8	1759.5	1793.3
1702.0	80°	1559.9	1235.0	659.8	737.6	832.4	1130.1	1414.4	1471.9	1336.5	1329.8
565.1	82.5°	544.8	500.8	419.6	490.6	538.0	808.7	1069.2	1143.7	994.8	991.4
253.8	85°	213.2	203.0	233.5	267.3	321.4	497.4	703.8	741.0	612.4	494.0
74.4	87.5°	44.0	47.4	57.5	60.9	98.1	172.6	253.8	311.3	247.0	209.8
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°
7295.2
7569.2
7968.5
8428.7
8953.1
9552.1
10289.7
11091.6
11528.1
11301.4
10692.3
10073.1
9531.8
9014.1
8455.8
7860.2
7332.4
7210.6
6885.7
6317.3
5403.7
4655.9
4402.1
4195.7
4087.5
3850.6
3576.5
3244.9
2906.6
2575.0
2233.2
1766.3
1316.2
944.0
487.2
192.9
0.0

F REPORT)