

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: P849003

Luminaire Tested: **GLAN-SB5D-830-U-SL4**

Issue Date: 6/26/2024

Test Information

Test Method: LM-79-08
Report Number: P849003
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-SB5D-830-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 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: 43752 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

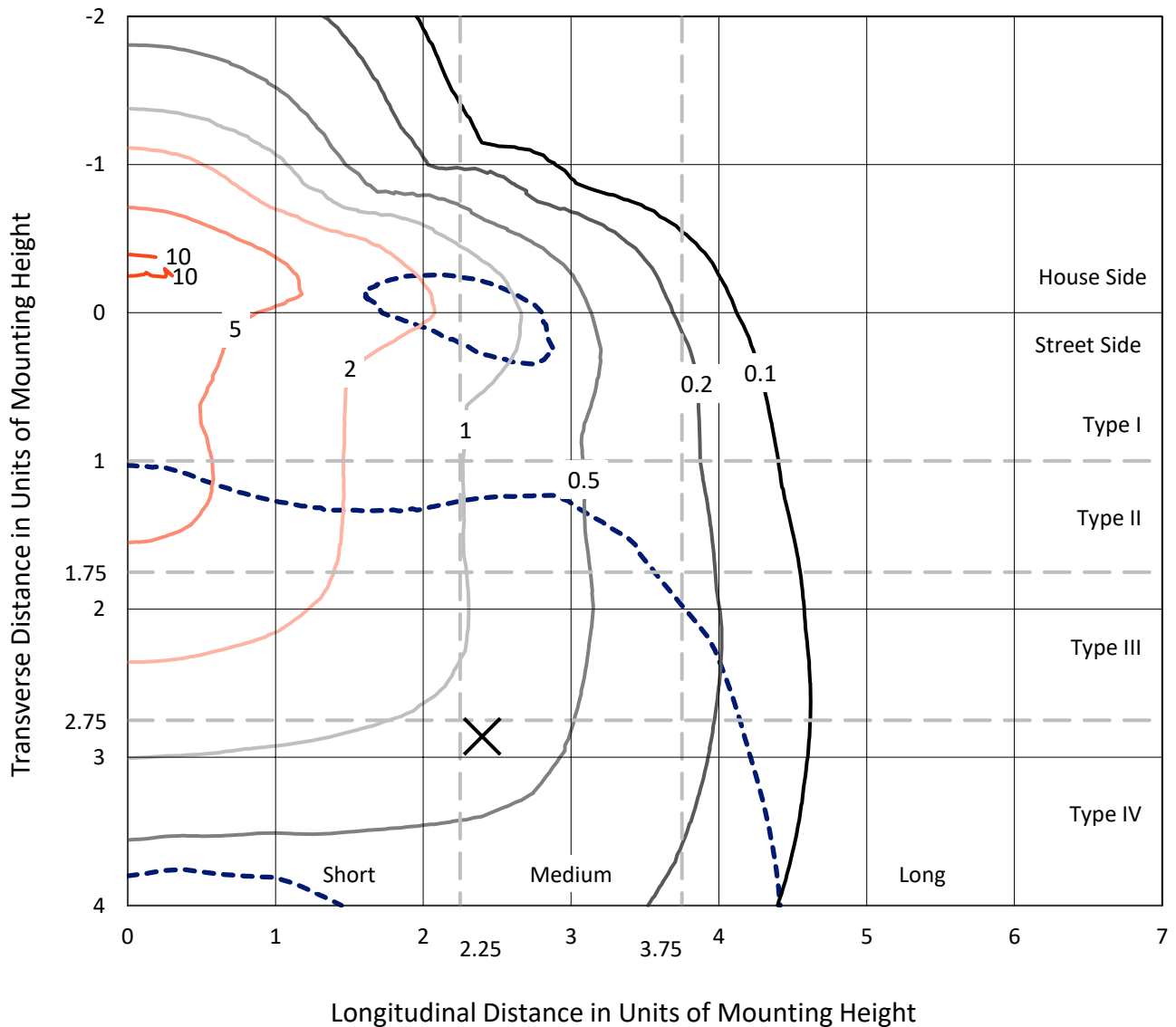
Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P849003
 CATALOG NUMBER: GLAN-SB5D-830-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

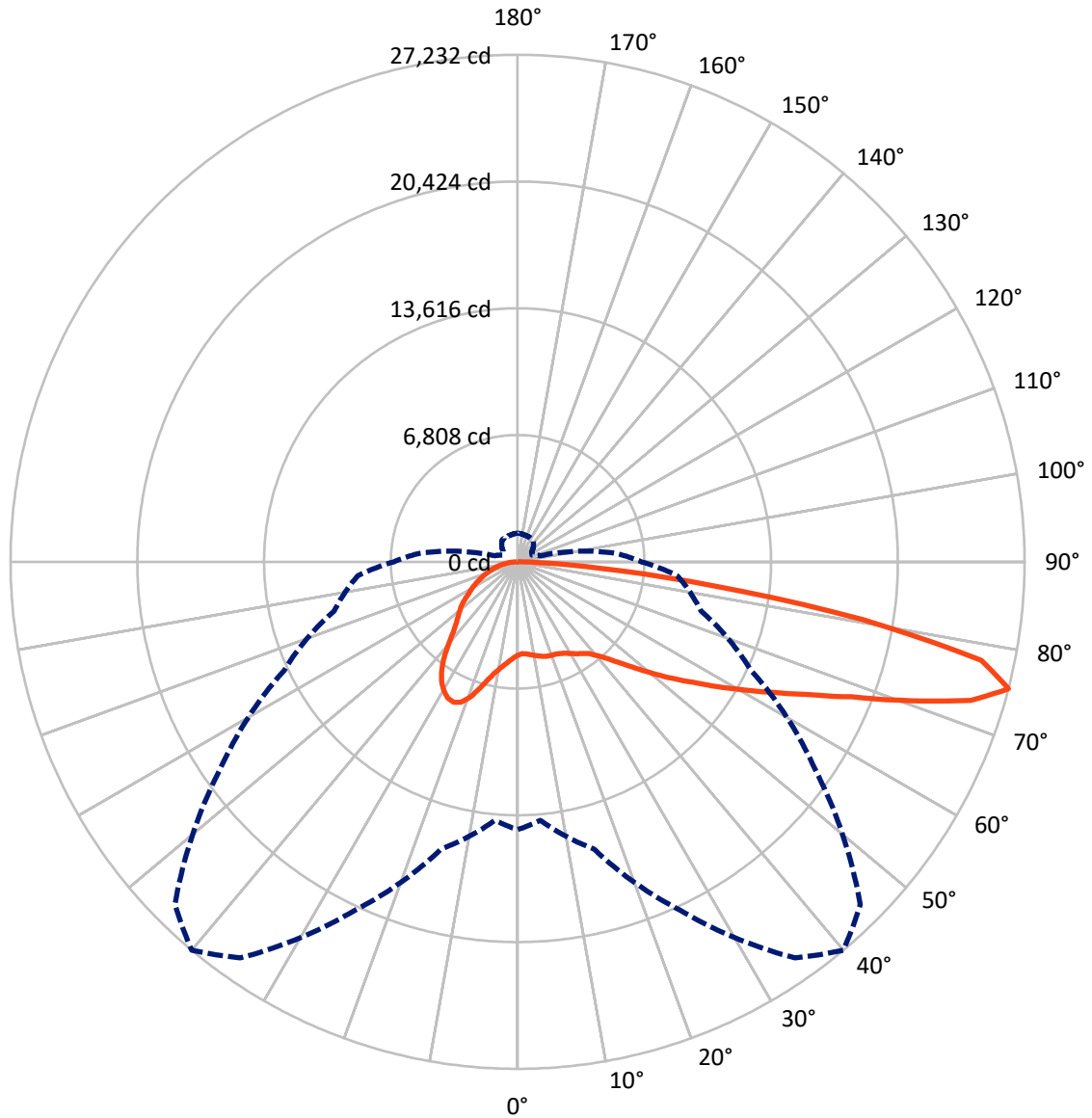
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type IV - Medium - N/A

REPORT NUMBER: P849003
CATALOG NUMBER: GLAN-SB5D-830-U-SL4

Luminous Intensity Polar Plot



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

REPORT NUMBER: P849003
 CATALOG NUMBER: GLAN-SB5D-830-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13555.8	0.0	13555.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	30196.2	0.0	30196.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	43752.0	0.0	43752.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.4	1.1
10°-20°	1676.7	3.8
20°-30°	3061.6	7.0
30°-40°	4342.2	9.9
40°-50°	5863.2	13.4
50°-60°	7887.6	18.0
60°-70°	10011.2	22.9
70°-80°	9085.7	20.8
80°-90°	1324.4	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°	43752.0	100.0
0°-180°	43752.0	100.0

Coefficient of Utilization

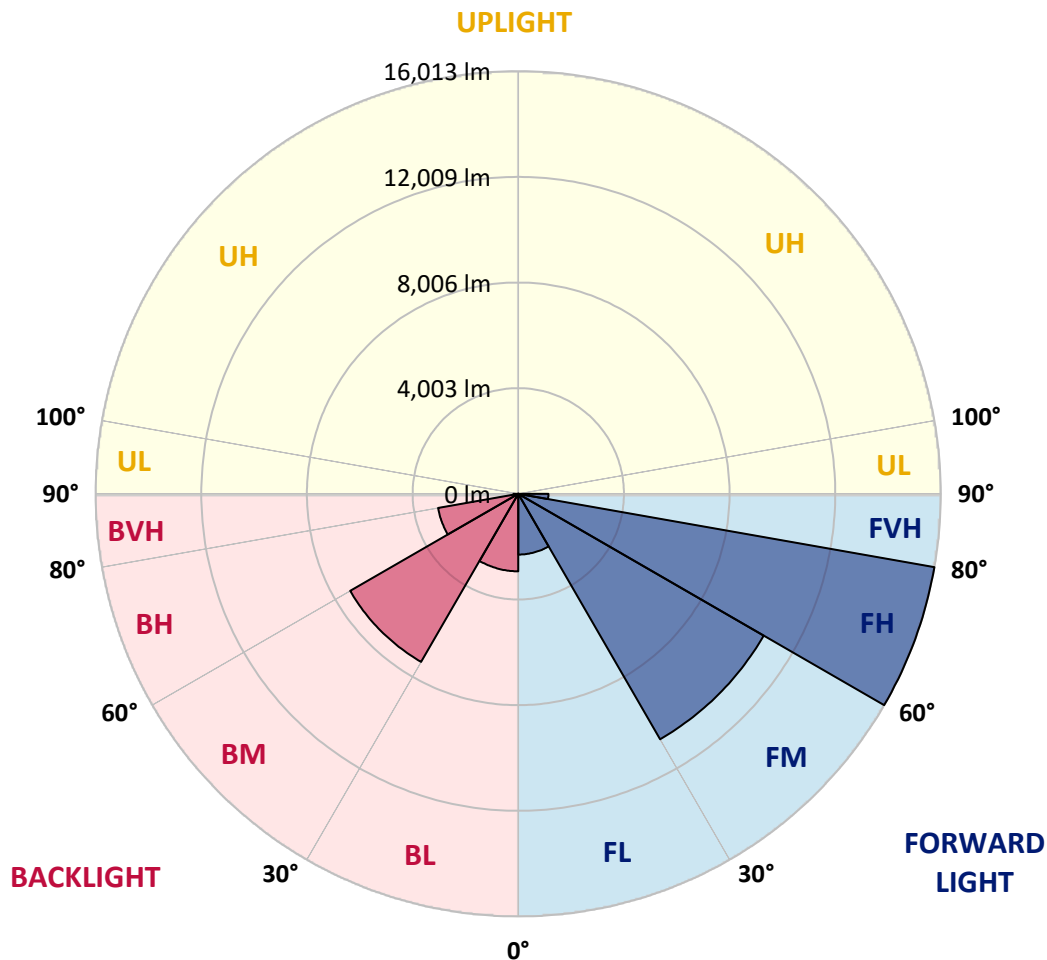


REPORT NUMBER: P849003
 CATALOG NUMBER: GLAN-SB5D-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2301.4	5.3			
FM (30°-60°)	10740.1	24.5			
FH (60°-80°)	16012.6	36.6			G5
FVH (80°-90°)	1142.1	2.6			G5
BL (0°-30°)	2936.3	6.7	B4/5000		
BM (30°-60°)	7352.8	16.8	B4/8500		
BH (60°-80°)	3084.4	7.0	B4/5000		G4/5000
BVH (80°-90°)	182.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Medium



REPORT NUMBER: P849003
 CATALOG NUMBER: GLAN-SB5D-830-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	5003.1	5003.1	5003.1	5003.1	5003.1	5003.1	5003.1	5003.1	5003.1	5003.1
2.5°	4926.5	4954.4	4947.4	4938.1	4938.1	4940.4	4938.1	4954.4	4970.6	4986.9
5°	4977.6	5005.4	4991.5	4979.9	4970.6	4968.3	4961.3	4959.0	4968.3	4989.2
7.5°	5077.4	5105.2	5084.3	5063.4	5044.9	5035.6	5026.3	5012.4	5005.4	5017.0
10°	5188.7	5216.6	5191.1	5153.9	5123.8	5112.2	5102.9	5089.0	5079.7	5086.6
12.5°	5300.1	5328.0	5293.2	5242.1	5202.7	5195.7	5184.1	5179.5	5177.1	5174.8
15°	5404.6	5427.8	5383.7	5323.3	5281.6	5270.0	5258.4	5265.3	5276.9	5290.8
17.5°	5485.8	5509.0	5444.0	5365.1	5325.7	5321.0	5314.1	5337.3	5369.7	5404.6
20°	5560.0	5583.2	5499.7	5393.0	5346.5	5346.5	5348.9	5397.6	5444.0	5495.1
22.5°	5664.5	5683.0	5580.9	5434.7	5367.4	5372.1	5390.6	5439.4	5497.4	5567.0
25°	5819.9	5833.9	5708.5	5513.6	5437.0	5451.0	5467.2	5490.4	5546.1	5627.3
27.5°	6070.6	6082.2	5917.4	5652.9	5536.8	5560.0	5583.2	5567.0	5592.5	5662.1
30°	6423.3	6430.2	6221.4	5871.0	5706.2	5717.8	5722.5	5655.2	5606.4	5662.1
32.5°	6841.0	6838.7	6590.4	6135.5	5898.8	5887.2	5847.8	5715.5	5601.8	5650.5
35°	7488.4	7462.9	7142.6	6506.8	6117.0	6045.0	5952.2	5782.8	5625.0	5638.9
37.5°	8560.5	8481.6	8038.4	7114.8	6441.8	6258.5	6121.6	5891.9	5676.1	5634.3
40°	9769.5	9669.7	9182.4	7947.9	6929.2	6634.4	6414.0	6047.3	5759.6	5655.2
42.5°	11203.6	11062.0	10537.6	8929.5	7546.4	7119.4	6787.6	6244.6	5882.6	5722.5
45°	12964.9	12776.9	12034.4	10036.4	8323.8	7755.3	7312.0	6543.9	6070.6	5852.4
47.5°	14744.8	14791.2	13735.3	11303.4	9256.7	8539.6	7968.8	6994.1	6344.4	6061.3
50°	16636.0	16668.5	15427.0	12707.3	10314.8	9426.1	8706.7	7497.7	6724.9	6358.3
52.5°	18111.9	18116.5	16963.2	14176.2	11417.1	10400.7	9502.6	8073.2	7165.8	6752.8
55°	19035.4	19023.8	18039.9	15566.2	12684.1	11424.1	10384.4	8727.6	7704.2	7216.9
57.5°	19706.1	19671.3	18782.5	16761.3	14034.7	12633.1	11382.3	9470.2	8340.0	7769.2
60°	19961.3	19940.5	19286.1	17794.0	15454.8	13969.7	12533.3	10300.9	9061.7	8421.3
62.5°	20058.8	20098.3	19780.3	18794.1	16974.8	15450.2	13798.0	11294.1	9873.9	9159.2
65°	20402.2	20474.2	20409.2	20102.9	18692.0	17183.7	15475.7	12475.3	10760.4	9950.5
67.5°	21082.2	21154.1	21182.0	21669.3	20789.8	19344.1	17568.9	13946.5	11797.7	10772.0
70°	21065.9	21045.0	21537.0	22915.4	23416.6	22335.3	20390.6	15756.5	13034.5	11454.2
72.5°	19174.7	19007.6	20170.2	22901.5	25602.6	25458.7	23836.7	18091.0	14102.0	11537.8
75°	14385.1	13939.5	15993.2	20638.9	25966.9	27231.6	26027.3	19539.0	13849.0	10194.2
77.5°	6151.8	5703.9	8124.2	15278.5	23240.3	25456.4	24017.7	17046.7	11055.1	6741.2
80°	1610.5	1608.1	2455.1	6926.8	15805.2	18798.8	16492.1	11008.7	6316.5	2408.7
82.5°	666.0	649.8	902.7	2694.2	7722.8	10549.2	8609.2	4910.3	2281.1	652.1
85°	248.3	246.0	438.6	930.5	2724.3	4351.0	3149.0	1255.4	568.5	317.9
87.5°	69.6	67.3	95.1	322.6	663.7	1007.1	538.4	206.5	160.1	125.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P849003
 CATALOG NUMBER: GLAN-SB5D-830-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5003.1	0°	5003.1	5003.1	5003.1	5003.1	5003.1	5003.1	5003.1	5003.1	5003.1	5003.1
5012.4	2.5°	5019.3	5030.9	5051.8	5068.1	5089.0	5112.2	5144.7	5165.5	5186.4	5200.3
5024.0	5°	5040.2	5065.8	5119.1	5172.5	5235.2	5293.2	5360.5	5409.2	5448.6	5460.2
5065.8	7.5°	5086.6	5128.4	5218.9	5309.4	5409.2	5504.3	5601.8	5685.3	5752.6	5778.2
5140.0	10°	5167.9	5223.6	5351.2	5478.8	5611.1	5757.3	5882.6	6003.3	6098.4	6137.8
5228.2	12.5°	5270.0	5339.6	5506.7	5683.0	5866.3	6068.2	6230.7	6379.2	6497.5	6550.9
5351.2	15°	5402.2	5492.7	5706.2	5942.9	6212.1	6492.9	6699.4	6864.2	6996.4	7061.4
5478.8	17.5°	5546.1	5666.8	5936.0	6293.3	6678.5	7047.5	7288.8	7409.5	7546.4	7609.1
5597.2	20°	5685.3	5833.9	6219.1	6738.9	7251.7	7643.9	7838.8	7871.3	7880.6	7887.5
5708.5	22.5°	5829.2	6028.8	6574.1	7300.4	7850.4	8121.9	8149.8	8010.5	7815.6	7725.1
5817.6	25°	5987.0	6251.6	7038.2	7920.0	8365.6	8398.1	8184.6	7845.8	7476.8	7307.4
5905.8	27.5°	6140.2	6509.1	7595.2	8511.8	8736.9	8451.4	7992.0	7511.6	7066.1	6887.4
5968.4	30°	6293.3	6803.8	8210.1	9029.2	8906.3	8319.2	7688.0	7151.9	6704.1	6516.1
6024.1	32.5°	6448.8	7147.3	8917.9	9402.9	8876.1	8038.4	7309.7	6748.2	6353.7	6156.4
6072.9	35°	6625.2	7569.6	9588.5	9607.1	8674.2	7625.3	6810.8	6265.5	5922.0	5764.2
6130.9	37.5°	6854.9	8105.7	10180.2	9658.1	8321.5	7019.7	6191.2	5694.6	5411.5	5339.6
6216.7	40°	7140.3	8750.8	10632.7	9576.9	7799.4	6284.0	5513.6	5116.8	4956.7	4972.9
6332.8	42.5°	7511.6	9472.5	10950.7	9368.0	7073.0	5525.2	4919.6	4743.2	4819.8	4884.8
6506.8	45°	7994.3	10222.0	11147.9	9013.0	6251.6	4882.4	4569.2	4610.9	4668.9	4675.9
6787.6	47.5°	8611.6	10980.8	11277.9	8477.0	5413.8	4429.9	4346.4	4355.7	4344.1	4295.3
7207.6	50°	9382.0	11718.8	11393.9	7766.9	4701.4	4146.8	4035.4	4002.9	3842.8	3685.0
7766.9	52.5°	10259.1	12396.4	11442.6	6885.1	4146.8	3910.1	3729.1	3524.9	3225.6	3176.8
8470.0	55°	11233.8	13022.9	11317.3	5801.4	3680.4	3606.1	3332.3	3086.3	3053.8	3012.1
9395.9	57.5°	12398.7	13698.2	11062.0	4592.4	3202.4	3251.1	2984.2	3012.1	2954.1	2889.1
10586.3	60°	13672.7	14396.7	10614.2	3490.1	2708.1	2807.9	2893.7	2891.4	2875.2	2821.8
11841.8	62.5°	14819.0	14856.1	9732.4	2673.3	2274.1	2464.4	2698.8	2696.5	2682.6	2652.4
13152.9	65°	15501.3	14786.5	8261.1	2104.7	1916.8	2181.3	2434.3	2452.8	2455.1	2452.8
14139.1	67.5°	15380.6	13972.0	6242.3	1675.4	1622.1	1893.6	2172.0	2197.6	2216.1	2220.8
14264.4	70°	14016.1	12182.9	4070.2	1336.6	1359.8	1640.6	1923.7	1949.3	1965.5	1984.1
12377.8	72.5°	10925.1	8957.3	2329.8	1081.4	1130.1	1422.5	1677.8	1707.9	1717.2	1752.0
8613.9	75°	6657.6	5267.6	1257.7	851.6	928.2	1216.0	1434.1	1468.9	1485.2	1526.9
4230.4	77.5°	3165.2	2281.1	717.0	663.7	747.2	993.2	1211.3	1250.8	1206.7	1229.9
1167.2	80°	1069.8	847.0	452.5	505.9	570.9	775.1	970.0	1009.4	916.6	912.0
387.5	82.5°	373.6	343.4	287.7	336.5	369.0	554.6	733.3	784.3	682.2	679.9
174.0	85°	146.2	139.2	160.1	183.3	220.5	341.1	482.7	508.2	420.0	338.8
51.1	87.5°	30.2	32.5	39.4	41.8	67.3	118.3	174.0	213.5	169.4	143.9
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°
5003.1
5191.1
5464.9
5780.5
6140.2
6550.9
7056.8
7606.8
7906.1
7750.6
7332.9
6908.3
6537.0
6181.9
5799.0
5390.6
5028.6
4945.1
4722.3
4332.5
3705.9
3193.1
3019.0
2877.5
2803.2
2640.8
2452.8
2225.4
1993.3
1765.9
1531.6
1211.3
902.7
647.4
334.2
132.3
0.0

F REPORT)