

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: McGRAW-EDISON

Report Number: P950506

Luminaire Tested: **GALN-SB4D-940-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-940-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29374 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

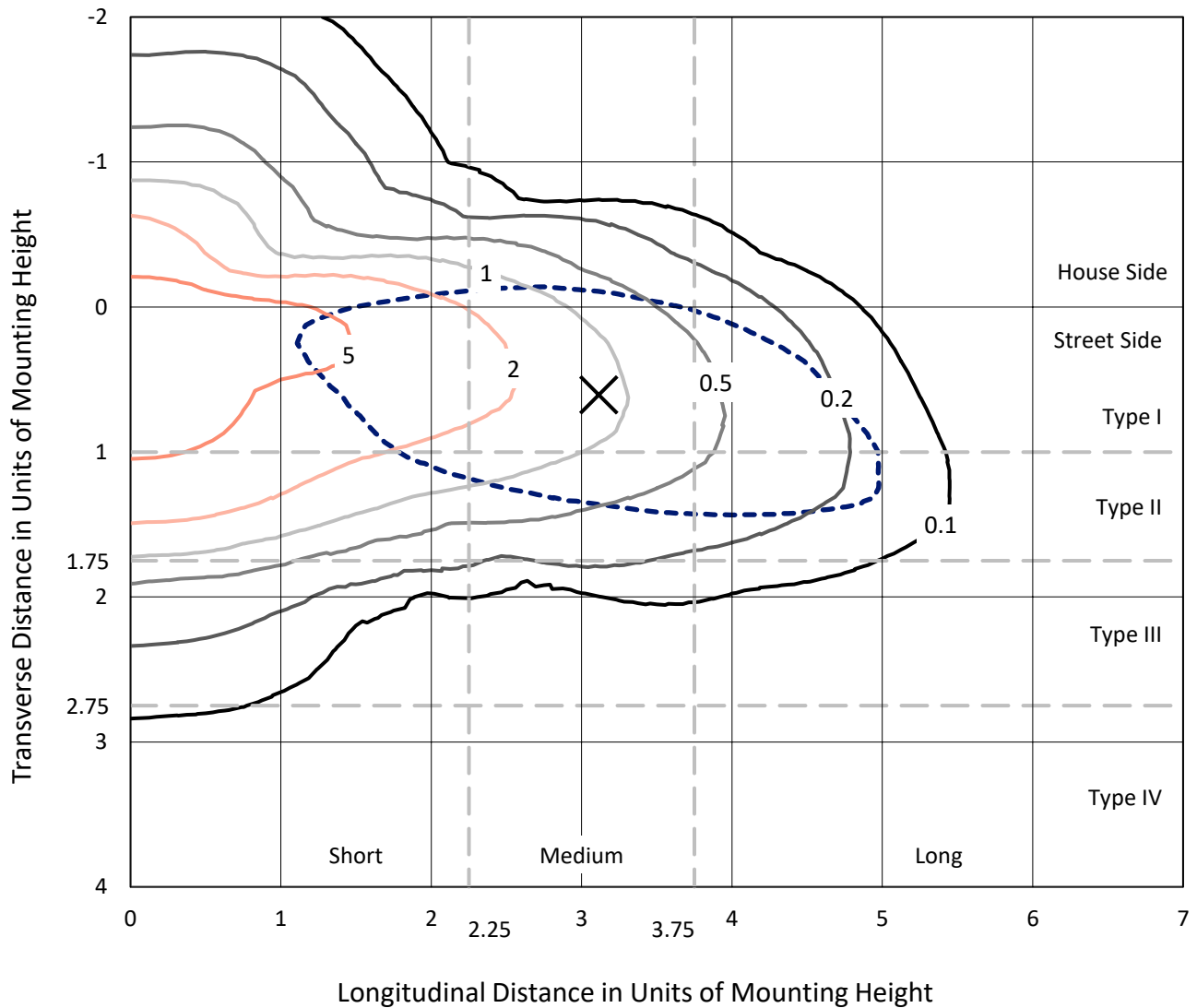
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950506
 CATALOG NUMBER: GALN-SB4D-940-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

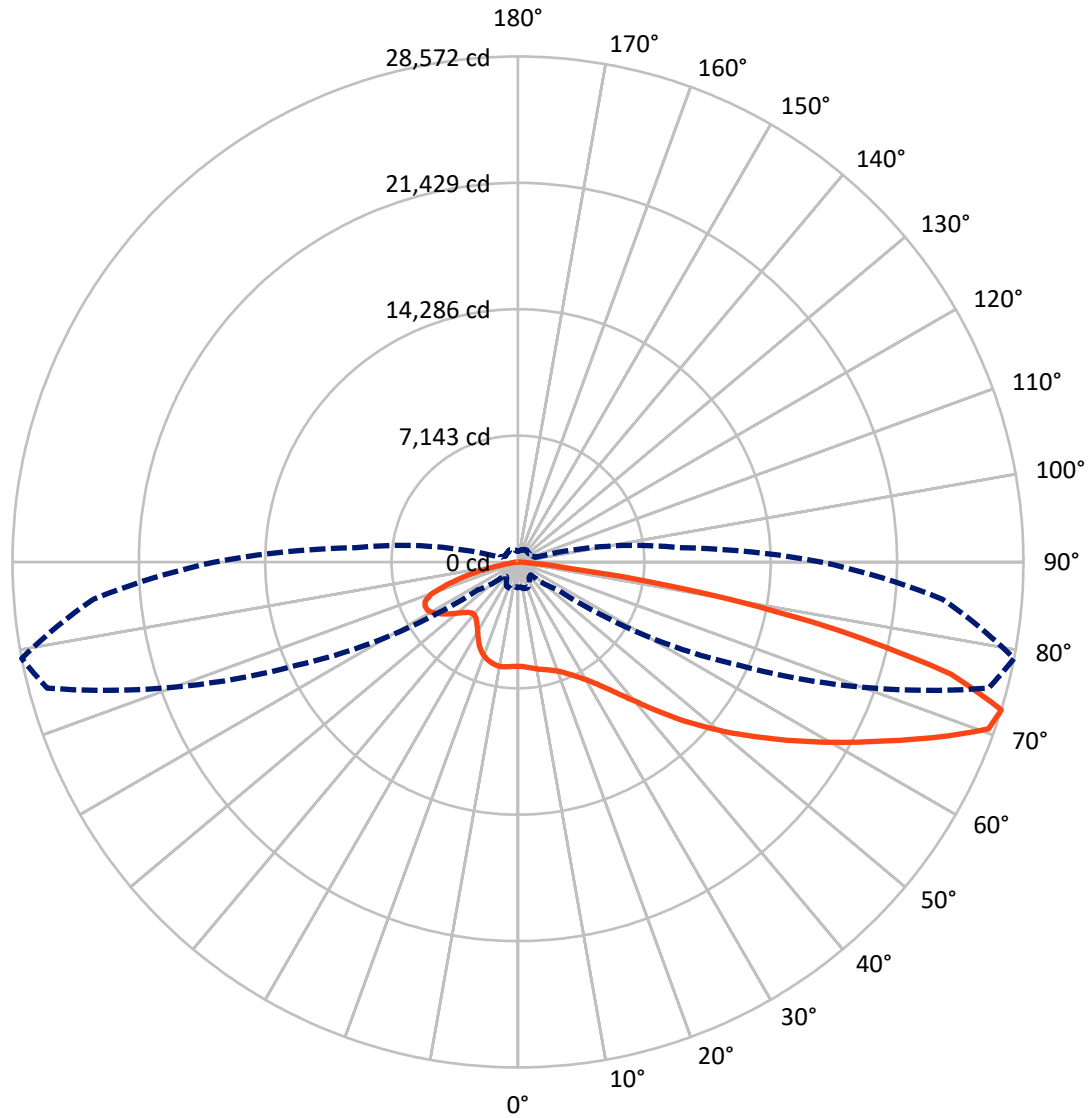
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P950506
CATALOG NUMBER: GALN-SB4D-940-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P950506
 CATALOG NUMBER: GALN-SB4D-940-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6463.9	0.0	6463.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	22910.1	0.0	22910.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	29374.0	0.0	29374.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.2	1.8
10°-20°	1399.4	4.8
20°-30°	2258.0	7.7
30°-40°	3389.0	11.5
40°-50°	4807.4	16.4
50°-60°	6071.2	20.7
60°-70°	6166.1	21.0
70°-80°	4202.5	14.3
80°-90°	545.2	1.9
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°	29374.0	100.0
0°-180°	29374.0	100.0



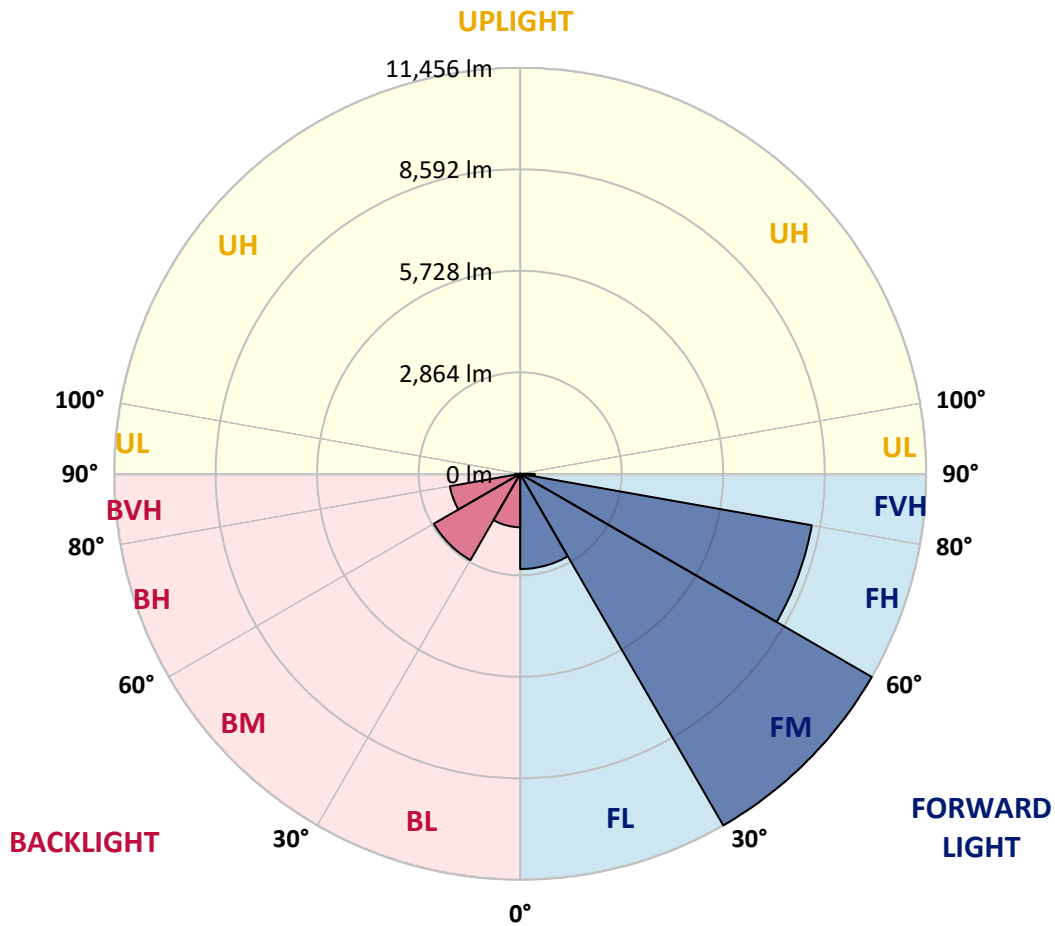
REPORT NUMBER: P950506
 CATALOG NUMBER: GALN-SB4D-940-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2687.0	9.1			
FM (30°-60°)	11456.5	39.0			
FH (60°-80°)	8355.9	28.4			G4/12000
FVH (80°-90°)	410.7	1.4			G3/500
BL (0°-30°)	1505.6	5.1	B3/2500		
BM (30°-60°)	2811.1	9.6	B3/5000		
BH (60°-80°)	2012.6	6.9	B3/2500		G3/2500
BVH (80°-90°)	134.5	0.5			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 II Medium



REPORT NUMBER: P950506
 CATALOG NUMBER: GALN-SB4D-940-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	5896.6	5896.6	5896.6	5896.6	5896.6	5896.6	5896.6	5896.6	5896.6	5896.6
2.5°	5899.7	5871.7	5888.8	5882.6	5890.3	5899.7	5902.8	5907.4	5923.0	5921.4
5°	5887.2	5859.3	5882.6	5874.8	5895.0	5916.8	5935.4	5952.5	5977.3	5988.2
7.5°	5860.8	5842.2	5865.5	5888.8	5926.1	5958.7	5985.1	6024.0	6059.7	6065.9
10°	5707.0	5693.0	5747.4	5808.0	5910.5	5999.1	6056.6	6101.6	6140.5	6146.7
12.5°	5547.0	5529.9	5590.5	5672.8	5839.1	5999.1	6120.3	6179.3	6213.5	6233.7
15°	5520.5	5506.6	5540.7	5612.2	5750.5	5957.1	6163.8	6272.6	6302.1	6325.4
17.5°	5647.9	5621.5	5635.5	5660.4	5741.2	5918.3	6198.0	6378.2	6423.3	6448.1
20°	5943.2	5905.9	5884.1	5834.4	5820.4	5924.5	6194.9	6505.6	6564.7	6595.7
22.5°	6336.3	6311.4	6264.8	6138.9	6002.2	6000.7	6253.9	6668.8	6779.1	6808.6
25°	6811.7	6774.4	6715.4	6544.5	6281.9	6151.4	6353.4	6877.0	7061.9	7069.6
27.5°	7358.6	7302.7	7221.9	6996.6	6642.4	6387.5	6505.6	7116.3	7386.6	7383.5
30°	7935.1	7879.2	7793.7	7520.2	7074.3	6706.1	6716.9	7374.2	7771.9	7754.9
32.5°	8356.2	8314.2	8297.1	8085.8	7571.5	7082.1	6959.3	7660.1	8247.4	8231.9
35°	8679.4	8625.0	8645.2	8538.0	8113.8	7503.1	7256.1	8000.4	8825.4	8823.9
37.5°	8999.4	8951.3	8968.4	8896.9	8615.6	8037.6	7618.1	8416.8	9541.7	9575.9
40°	9291.5	9240.3	9308.6	9241.8	9005.6	8606.3	8029.9	8887.6	10371.4	10436.7
42.5°	9467.1	9426.7	9540.1	9541.7	9344.4	9086.4	8482.0	9406.5	11331.6	11477.7
45°	9527.7	9513.7	9684.6	9720.4	9644.2	9364.6	8889.1	9972.1	12366.4	12627.5
47.5°	9462.4	9436.0	9672.2	9804.3	9864.9	9495.1	9226.3	10584.3	13423.0	13805.2
50°	9133.1	9081.8	9432.9	9711.1	9927.0	9580.5	9566.6	11291.2	14624.1	15042.0
52.5°	8541.1	8502.2	8901.5	9384.8	9790.3	9622.5	9948.8	12063.5	15764.5	16305.2
55°	7784.4	7733.1	8172.8	8803.7	9450.0	9608.5	10331.0	12927.4	17110.1	17658.6
57.5°	6584.9	6482.3	7038.6	7784.4	8895.3	9591.4	10728.8	13786.6	18477.4	19134.7
60°	4835.3	4683.1	5365.2	6249.3	7810.8	9425.2	11221.3	14749.9	20118.2	20710.2
62.5°	2815.4	2726.9	3172.8	3997.8	5887.2	8446.3	11497.9	15870.2	21731.0	22352.5
65°	2186.2	2161.3	2200.1	2263.8	3276.9	6323.8	10644.9	16962.5	23782.0	24217.0
67.5°	1999.7	1981.1	1998.1	1878.5	1662.5	3522.4	8421.4	17239.1	25979.0	26243.1
70°	1777.5	1755.8	1811.7	1709.1	1308.3	1601.9	5441.3	16235.3	27727.0	28222.6
72.5°	1448.1	1423.3	1553.8	1507.2	1101.6	1028.6	2733.1	13850.3	27543.7	28572.2
75°	1112.5	1098.5	1253.9	1292.7	898.1	809.5	1311.4	10295.3	24238.8	25275.2
77.5°	863.9	853.0	932.3	1073.7	724.1	627.7	806.4	6530.5	18266.1	18447.9
80°	647.9	616.8	689.9	831.3	564.0	458.4	546.9	3808.3	11546.1	10466.2
82.5°	405.5	390.0	450.6	554.7	397.8	315.4	355.8	2103.8	4627.1	2725.3
85°	231.5	225.3	245.5	317.0	216.0	181.8	203.5	929.2	845.3	581.1
87.5°	93.2	90.1	111.9	141.4	79.2	66.8	71.5	223.7	186.5	172.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950506
 CATALOG NUMBER: GALN-SB4D-940-U-SL2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5896.6	0°	5896.6	5896.6	5896.6	5896.6	5896.6	5896.6	5896.6	5896.6	5896.6	5896.6
5919.9	2.5°	5913.6	5913.6	5891.9	5857.7	5818.9	5794.0	5753.6	5742.7	5700.8	5688.3
5972.7	5°	5985.1	5972.7	5905.9	5809.5	5677.5	5556.3	5422.7	5338.7	5220.7	5178.7
6076.8	7.5°	6075.2	6041.1	5926.1	5714.8	5438.2	5166.3	4883.5	4669.1	4464.0	4390.9
6162.2	10°	6157.6	6109.4	5913.6	5543.8	5065.3	4594.5	4143.9	3828.5	3589.2	3491.3
6257.0	12.5°	6239.9	6151.4	5831.3	5259.5	4535.5	3896.9	3416.7	3171.2	3023.6	2905.5
6334.7	15°	6317.6	6193.3	5703.9	4878.8	3954.3	3306.4	2952.2	2756.4	2638.3	2560.6
6448.1	17.5°	6407.7	6229.1	5512.8	4395.6	3401.2	2897.8	2608.8	2490.7	2467.4	2458.1
6603.5	20°	6533.6	6261.7	5261.1	3854.9	2994.1	2571.5	2422.3	2411.4	2409.9	2405.2
6790.0	22.5°	6668.8	6300.5	4928.6	3363.9	2647.6	2367.9	2341.5	2319.8	2305.8	2304.2
7015.3	25°	6828.8	6313.0	4512.1	2961.5	2352.4	2271.6	2240.5	2207.9	2198.6	2198.6
7271.6	27.5°	6984.2	6271.0	4027.4	2611.9	2186.2	2183.0	2142.6	2131.8	2130.2	2134.9
7563.7	30°	7139.6	6191.8	3545.7	2288.7	2089.8	2089.8	2075.8	2083.6	2089.8	2105.4
7964.6	32.5°	7349.3	6107.9	3143.3	2049.4	2005.9	1990.4	2004.4	2019.9	2026.1	2046.3
8491.3	35°	7657.0	6048.8	2823.2	1918.9	1918.9	1898.7	1906.5	1903.4	1889.4	1880.1
9128.4	37.5°	8064.1	6045.7	2559.1	1858.3	1845.9	1842.8	1844.3	1824.1	1769.7	1704.5
9899.1	40°	8553.5	6129.6	2355.5	1816.4	1807.0	1825.7	1816.4	1762.0	1612.8	1499.4
10846.9	42.5°	9210.7	6368.9	2225.0	1765.1	1793.0	1816.4	1779.1	1591.1	1490.1	1413.9
11926.7	45°	9984.5	6757.3	2158.2	1710.7	1766.6	1794.6	1614.4	1532.0	1451.2	1359.5
13104.5	47.5°	10860.8	7246.8	2142.6	1659.4	1707.6	1724.7	1544.4	1507.2	1415.5	1316.0
14288.5	50°	11814.9	7826.3	2184.6	1598.8	1622.1	1563.1	1521.1	1487.0	1392.2	1294.3
15501.9	52.5°	12801.5	8464.9	2268.5	1516.5	1536.7	1471.4	1511.8	1482.3	1378.2	1246.1
16755.8	55°	13771.0	9108.2	2349.3	1420.1	1449.7	1389.1	1485.4	1463.6	1314.5	1165.3
18093.6	57.5°	14756.1	9748.3	2428.5	1334.7	1365.8	1309.8	1443.5	1413.9	1243.0	1090.7
19554.2	60°	15780.1	10369.9	2465.8	1252.3	1274.1	1236.8	1379.7	1328.5	1162.2	1014.6
20989.9	62.5°	16738.7	10887.3	2405.2	1170.0	1184.0	1168.4	1295.8	1227.5	1081.4	929.2
22486.1	65°	17700.5	11194.9	2218.8	1089.2	1092.3	1084.5	1177.8	1118.7	986.6	854.6
23796.0	67.5°	18572.2	11367.4	1922.0	1002.2	994.4	991.3	1067.4	1000.6	895.0	780.0
24791.9	70°	18757.1	10929.2	1468.3	899.6	899.6	891.9	946.2	877.9	794.0	700.7
24078.7	72.5°	17131.9	9193.6	1042.6	783.1	795.5	780.0	825.1	767.6	691.4	629.3
20752.1	75°	13814.6	6741.8	758.2	663.5	685.2	658.8	700.7	660.4	595.1	593.5
14300.9	77.5°	9492.0	4168.8	550.0	546.9	562.5	528.3	576.4	554.7	495.7	469.2
6224.4	80°	4050.7	1662.5	400.9	422.6	422.6	391.5	447.5	453.7	402.4	390.0
1201.1	82.5°	806.4	472.3	281.2	290.6	273.5	264.1	317.0	351.2	484.8	539.2
362.0	85°	242.4	174.0	169.4	158.5	139.8	141.4	186.5	352.7	435.1	248.6
119.6	87.5°	66.8	43.5	45.1	35.7	29.5	38.8	63.7	267.2	146.1	62.2
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>
5896.6
5708.5
5209.8
4400.3
3513.1
2944.4
2574.6
2464.3
2420.8
2321.3
2207.9
2147.3
2116.2
2063.4
1901.8
1706.0
1496.3
1410.8
1353.3
1308.3
1283.4
1236.8
1157.6
1087.6
1009.9
927.6
845.3
770.7
697.6
610.6
534.5
439.7
390.0
540.7
214.4
52.8
0.0

F REPORT)