

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: P943554

Luminaire Tested: **GALN-SB8A-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8A-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23800 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

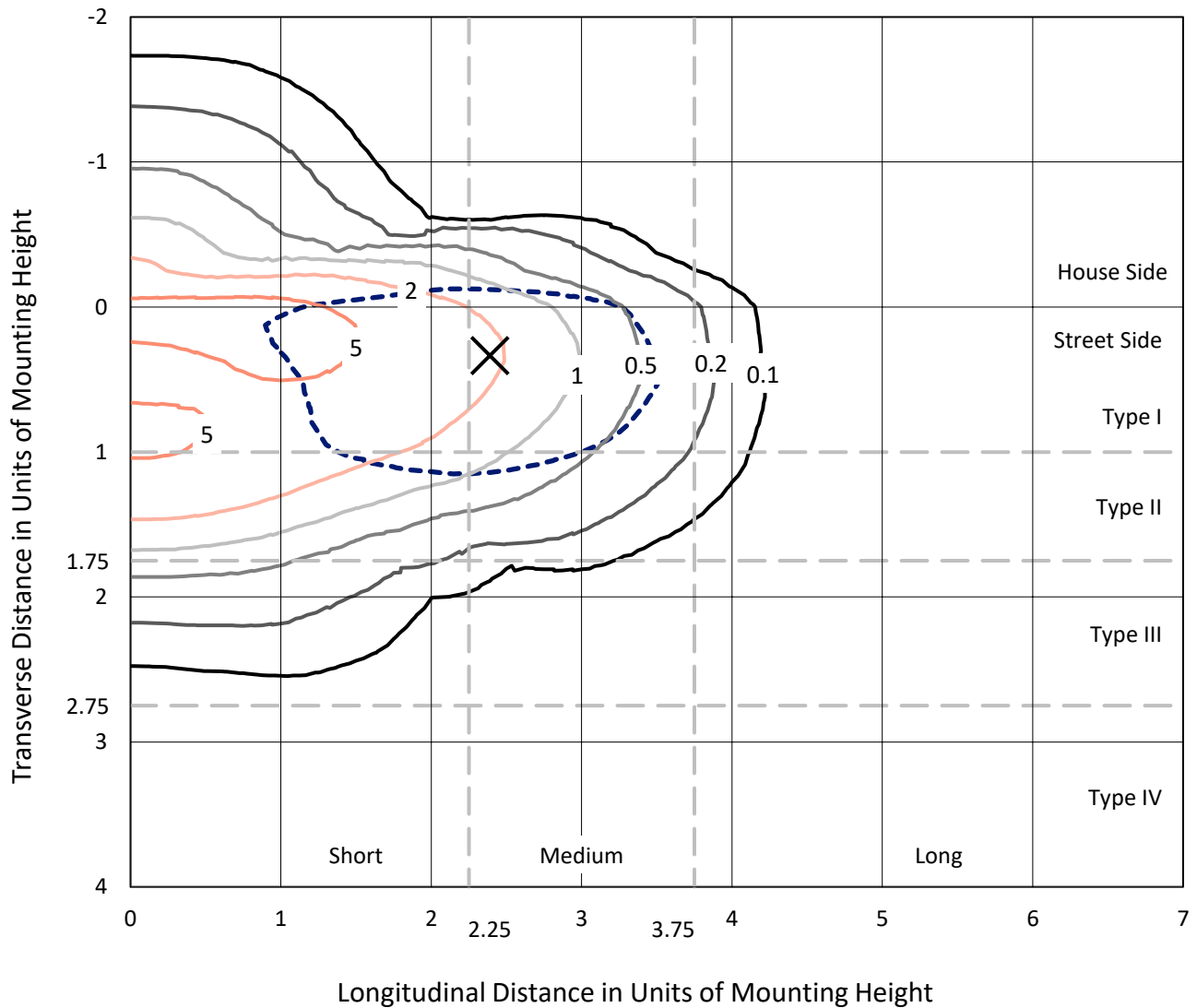
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943554
 CATALOG NUMBER: GALN-SB8A-830-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

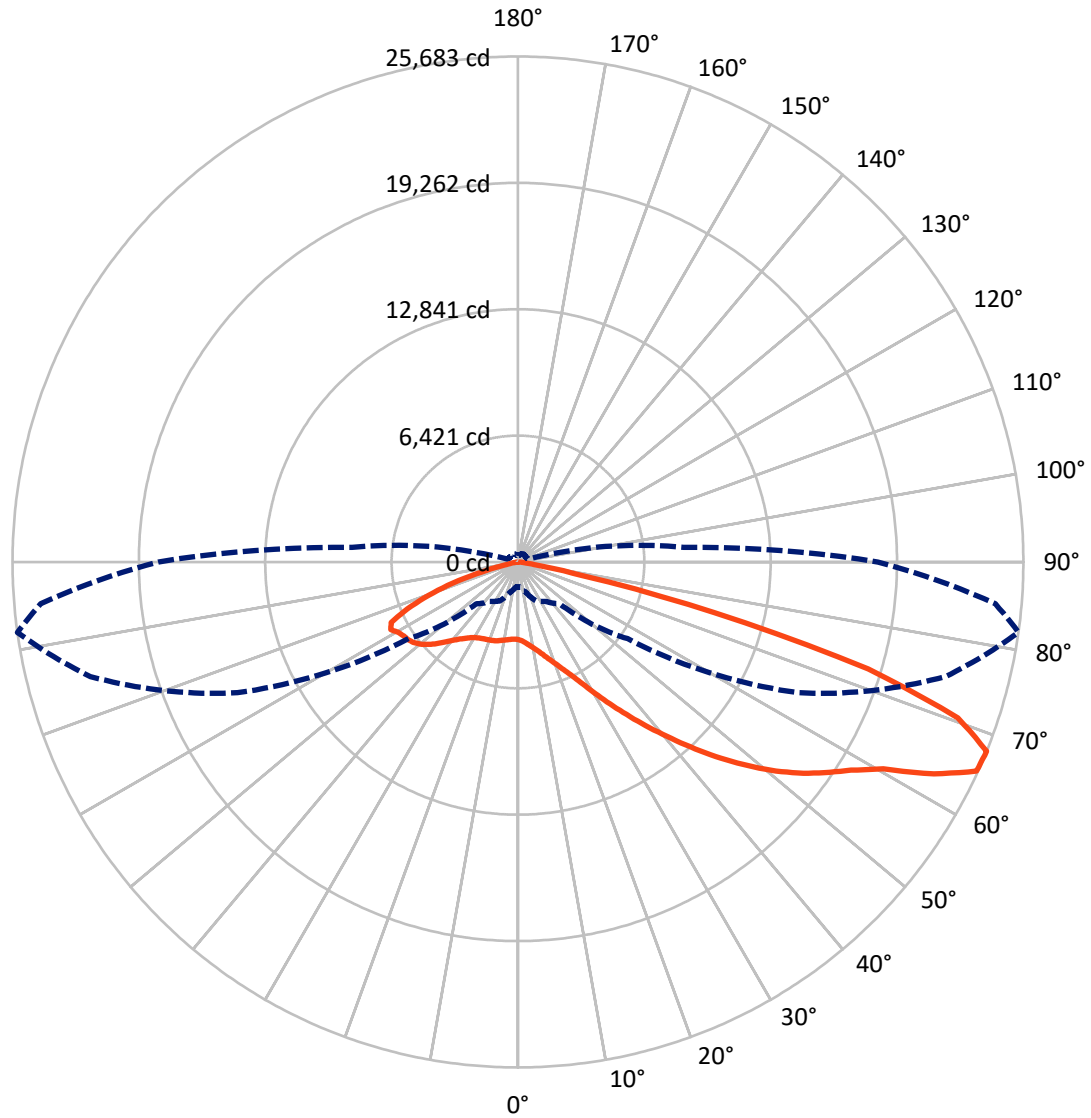
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P943554
CATALOG NUMBER: GALN-SB8A-830-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P943554

CATALOG NUMBER: GALN-SB8A-830-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4311.2	0.0	4311.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	19488.8	0.0	19488.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	23800.0	0.0	23800.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.3	1.5
10°-20°	912.8	3.8
20°-30°	1462.1	6.1
30°-40°	2585.4	10.9
40°-50°	4529.8	19.0
50°-60°	6041.5	25.4
60°-70°	5624.4	23.6
70°-80°	2158.6	9.1
80°-90°	134.1	0.6
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°	23800.0	100.0
0°-180°	23800.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943554

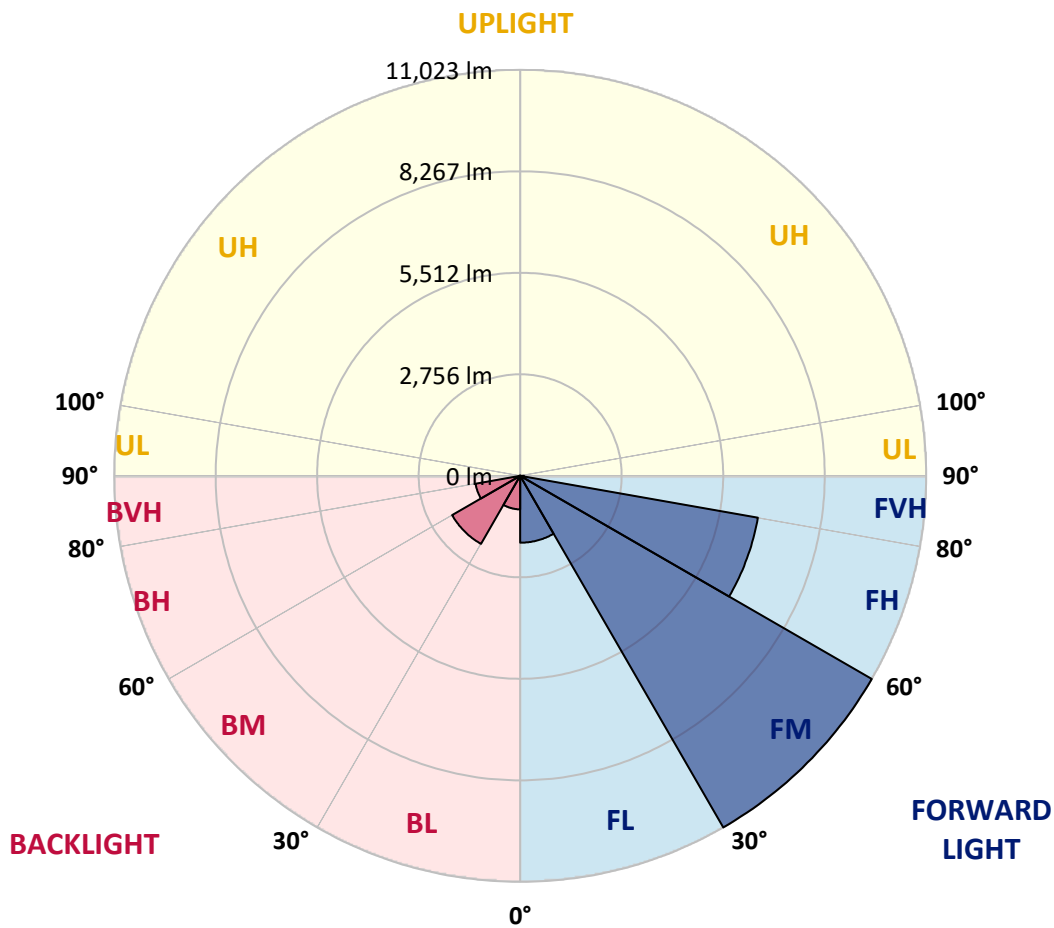
CATALOG NUMBER: GALN-SB8A-830-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1815.7	7.6			
FM (30°-60°)	11023.2	46.3			
FH (60°-80°)	6552.5	27.5			G3/7500
FVH (80°-90°)	97.5	0.4			G1/100
BL (0°-30°)	910.5	3.8	B2/1000		
BM (30°-60°)	2133.6	9.0	B2/2500		
BH (60°-80°)	1230.5	5.2	B3/2500		G3/2500
BVH (80°-90°)	36.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



REPORT NUMBER: P943554

CATALOG NUMBER: GALN-SB8A-830-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3942.9	3942.9	3942.9	3942.9	3942.9	3942.9	3942.9	3942.9	3942.9	3942.9
2.5°	4167.3	4191.3	4177.6	4170.8	4158.8	4141.6	4127.9	4085.1	4040.5	4011.4
5°	4251.3	4275.3	4273.6	4280.4	4289.0	4294.1	4290.7	4242.7	4179.3	4129.6
7.5°	4179.3	4206.7	4229.0	4263.3	4323.3	4386.7	4417.5	4407.2	4342.1	4273.6
10°	3975.4	4004.5	4057.7	4138.2	4265.0	4402.1	4516.9	4570.0	4528.9	4453.5
12.5°	3601.9	3631.0	3735.5	3910.3	4122.8	4361.0	4580.3	4722.5	4732.8	4657.4
15°	3182.0	3211.2	3322.6	3541.9	3865.7	4247.9	4614.6	4883.6	4974.4	4909.3
17.5°	2921.6	2947.3	3031.3	3207.7	3545.3	4021.7	4602.6	5054.9	5262.3	5210.9
20°	2842.8	2865.0	2904.4	3027.8	3308.8	3786.9	4523.7	5216.0	5572.4	5543.3
22.5°	2926.7	2947.3	2959.3	3014.1	3190.6	3632.7	4424.4	5380.5	5932.3	5935.7
25°	3120.4	3140.9	3127.2	3161.5	3238.6	3584.7	4386.7	5574.1	6384.6	6422.3
27.5°	3439.1	3440.8	3408.2	3406.5	3418.5	3656.7	4426.1	5781.5	6955.3	7025.5
30°	4078.2	4052.5	3927.4	3792.1	3730.4	3872.6	4535.7	6026.5	7628.7	7753.8
32.5°	5063.5	5025.8	4796.2	4472.3	4146.8	4220.4	4732.8	6305.8	8362.1	8588.3
35°	6132.8	6122.5	5882.6	5401.1	4832.2	4715.7	5053.2	6672.5	9162.3	9522.1
37.5°	7126.6	7121.5	6984.4	6417.2	5724.9	5406.2	5567.3	7152.3	10019.1	10540.0
40°	8034.8	8050.2	7913.1	7405.9	6708.5	6292.1	6266.4	7745.2	10971.8	11648.6
42.5°	8819.6	8836.7	8697.9	8322.7	7680.1	7272.3	7124.9	8471.7	11902.2	12839.6
45°	9352.5	9458.7	9438.2	9138.3	8677.4	8254.1	8156.4	9383.3	12962.9	14102.4
47.5°	9503.3	9601.0	9755.2	9796.3	9515.3	9098.9	9215.4	10481.7	14035.6	15367.0
50°	9131.5	9222.3	9542.7	9969.4	10164.7	10036.2	10245.3	11658.9	15134.0	16628.2
52.5°	8398.1	8490.6	8895.0	9570.1	10366.9	10771.3	11278.5	12819.0	16198.1	17822.5
55°	7337.4	7435.0	7954.3	8718.5	9981.4	11074.6	12140.4	13977.3	17173.1	18896.9
57.5°	5894.6	5966.5	6506.3	7575.6	9011.5	10773.0	12776.2	15241.9	18091.6	19952.5
60°	3841.8	3905.2	4532.3	5724.9	7404.2	9765.5	12903.0	16652.2	19311.6	21325.0
62.5°	2554.9	2597.7	2969.6	3845.2	5214.3	7830.9	12161.0	17778.0	21100.5	23713.7
65°	1753.0	1795.8	2167.6	2777.6	3368.8	5180.0	10027.6	17628.9	22721.5	25610.6
67.5°	1250.9	1286.9	1602.2	2177.9	2438.4	3009.0	6797.6	15723.4	22488.5	25682.5
70°	896.2	916.7	1177.2	1696.4	1938.0	1807.8	3780.1	12025.6	19690.3	23715.4
72.5°	627.2	634.0	817.4	1292.0	1561.0	1319.4	1799.2	8017.7	14892.4	18614.2
75°	425.0	433.5	550.0	947.6	1252.6	1007.6	952.7	4299.3	8742.5	10303.5
77.5°	260.5	263.9	354.7	647.7	937.3	767.7	613.4	1821.5	3382.5	3320.8
80°	147.4	147.4	226.2	402.7	639.2	495.2	430.1	774.5	1071.0	940.7
82.5°	82.2	84.0	164.5	250.2	423.2	293.0	236.5	358.1	462.7	409.5
85°	34.3	37.7	101.1	118.2	202.2	145.7	96.0	150.8	171.4	152.5
87.5°	3.4	5.1	30.8	22.3	24.0	29.1	13.7	29.1	24.0	24.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943554
 CATALOG NUMBER: GALN-SB8A-830-U-T2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3942.9	0°	3942.9	3942.9	3942.9	3942.9	3942.9	3942.9	3942.9	3942.9	3942.9	3942.9
4001.1	2.5°	3968.6	3942.9	3877.7	3802.3	3703.0	3655.0	3589.9	3545.3	3507.6	3511.0
4100.5	5°	4045.7	3980.6	3834.9	3653.3	3427.1	3266.0	3094.7	2976.4	2880.5	2859.9
4237.6	7.5°	4151.9	4049.1	3793.8	3466.5	3084.4	2794.8	2536.0	2369.8	2251.6	2213.9
4403.8	10°	4289.0	4139.9	3740.7	3231.7	2681.7	2313.3	2035.7	1905.5	1824.9	1797.5
4599.1	12.5°	4448.3	4244.4	3670.4	2945.6	2267.0	1912.3	1735.8	1670.7	1645.0	1636.4
4839.0	15°	4648.8	4374.7	3564.2	2606.3	1915.7	1667.3	1591.9	1583.3	1586.7	1583.3
5126.9	17.5°	4887.0	4516.9	3391.1	2256.7	1679.3	1542.2	1514.8	1521.6	1530.2	1528.5
5449.1	20°	5147.5	4657.4	3170.0	1946.6	1518.2	1453.1	1437.7	1444.5	1451.4	1447.9
5820.9	22.5°	5443.9	4808.2	2925.0	1705.0	1410.2	1370.8	1353.7	1355.4	1355.4	1348.6
6292.1	25°	5798.6	4974.4	2668.0	1533.6	1328.0	1297.1	1276.6	1269.7	1259.5	1238.9
6864.4	27.5°	6221.9	5150.9	2421.2	1413.7	1262.9	1233.7	1209.8	1192.6	1166.9	1132.6
7551.6	30°	6698.2	5365.1	2212.2	1338.3	1211.5	1182.3	1154.9	1129.2	1091.5	1048.7
8341.5	32.5°	7258.6	5594.7	2059.7	1288.6	1165.2	1134.4	1101.8	1071.0	1029.8	987.0
9229.1	35°	7926.8	5872.3	1970.6	1254.3	1129.2	1088.1	1052.1	1017.8	987.0	949.3
10193.8	37.5°	8651.7	6167.0	1943.2	1237.2	1105.2	1041.8	1000.7	976.7	973.3	951.0
11237.4	40°	9445.0	6516.6	1963.7	1226.9	1079.5	997.3	952.7	947.6	956.2	916.7
12352.9	42.5°	10284.7	6931.3	1998.0	1214.9	1043.5	952.7	909.9	909.9	903.0	848.2
13531.8	45°	11192.8	7409.3	2032.3	1185.8	1000.7	908.2	875.6	863.6	834.5	781.4
14717.6	47.5°	12107.9	7896.0	2058.0	1132.6	949.3	870.5	841.3	813.9	771.1	723.1
15881.1	50°	12976.6	8332.9	2030.5	1053.8	891.0	834.5	803.7	766.0	719.7	687.1
16982.9	52.5°	13752.9	8711.6	1914.0	961.3	829.4	796.8	769.4	730.0	692.3	658.0
17976.7	55°	14428.0	9018.4	1708.4	873.9	774.5	764.2	736.8	687.1	635.7	606.6
18962.0	57.5°	15075.7	9251.4	1451.4	801.9	724.8	728.3	687.1	642.6	594.6	563.8
20290.0	60°	15937.6	9563.3	1190.9	735.1	671.7	682.0	637.4	604.9	544.9	505.5
22567.3	62.5°	17315.3	10048.2	945.9	652.9	610.0	613.4	594.6	555.2	483.2	437.0
24255.2	65°	18408.6	9870.0	745.4	563.8	539.8	544.9	544.9	502.1	425.0	371.8
24346.0	67.5°	18285.2	8451.2	594.6	476.4	472.9	476.4	488.4	452.4	377.0	334.1
22491.9	70°	16844.1	6722.2	476.4	395.8	411.2	402.7	437.0	413.0	339.3	296.4
17437.0	72.5°	13744.3	4842.5	363.3	327.3	315.3	329.0	394.1	371.8	282.7	234.8
9236.0	75°	8031.4	2584.0	270.7	258.7	227.9	274.2	349.6	317.0	215.9	173.1
2830.8	77.5°	2614.9	901.3	198.8	190.2	169.6	221.0	298.2	267.3	176.5	137.1
829.4	80°	700.8	272.5	135.4	125.1	109.7	164.5	236.5	212.5	126.8	89.1
356.4	82.5°	281.0	114.8	78.8	70.3	60.0	113.1	186.8	171.4	94.2	56.5
111.4	85°	90.8	37.7	29.1	22.3	27.4	70.3	111.4	116.5	66.8	29.1
17.1	87.5°	12.0	5.1	5.1	6.9	5.1	12.0	34.3	32.6	18.8	3.4
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>
3942.9
3476.8
2813.6
2176.2
1776.9
1631.3
1581.6
1525.1
1446.2
1345.1
1235.5
1129.2
1045.3
988.7
945.9
949.3
918.5
848.2
779.7
721.4
682.0
654.6
603.2
560.3
500.4
433.5
366.7
327.3
291.3
229.6
167.9
131.9
87.4
56.5
22.3
0.0
0.0

F REPORT)