

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: P955874

Luminaire Tested: **GALN-SB8C-940-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955874
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-940-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33802 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

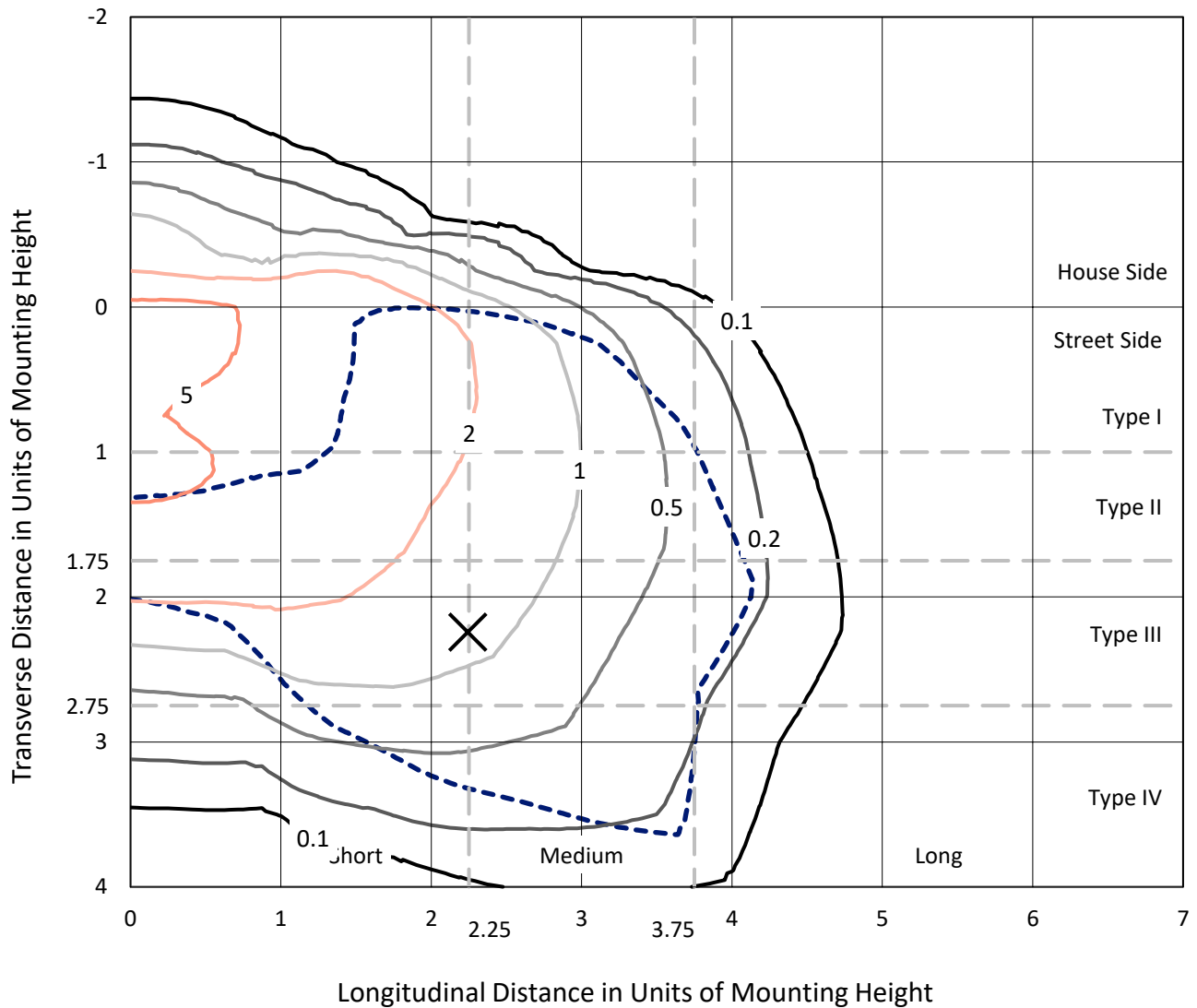
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955874
 CATALOG NUMBER: GALN-SB8C-940-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

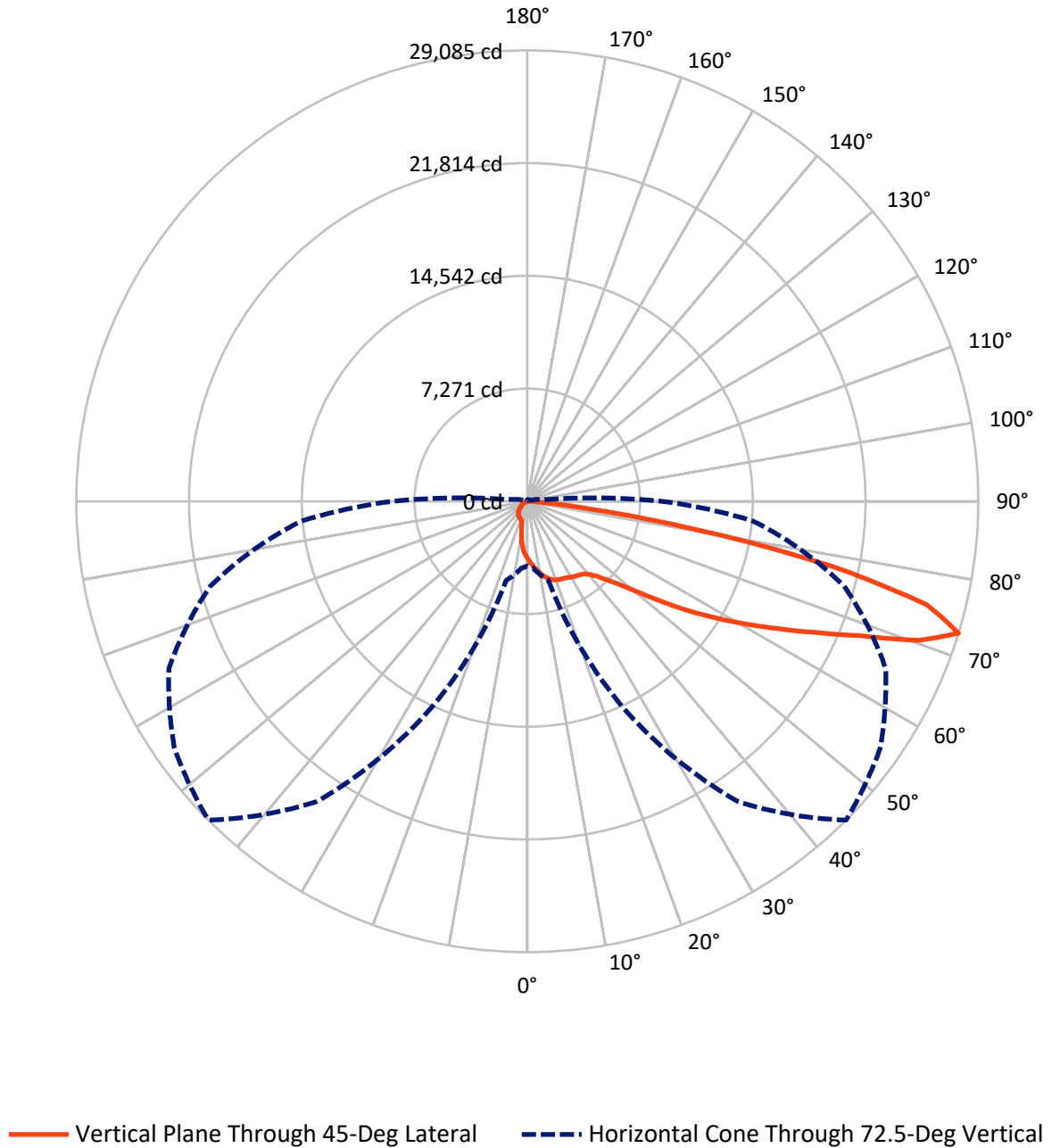
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P955874
CATALOG NUMBER: GALN-SB8C-940-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P955874
 CATALOG NUMBER: GALN-SB8C-940-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3551.7	0.0	3551.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	30250.3	0.0	30250.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	33802.0	0.0	33802.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.9	1.0
10°-20°	1019.7	3.0
20°-30°	1674.5	5.0
30°-40°	2374.8	7.0
40°-50°	3925.4	11.6
50°-60°	7051.5	20.9
60°-70°	9791.4	29.0
70°-80°	7102.4	21.0
80°-90°	513.5	1.5
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°	33802.0	100.0
0°-180°	33802.0	100.0

Coefficient of Utilization



REPORT NUMBER: P955874

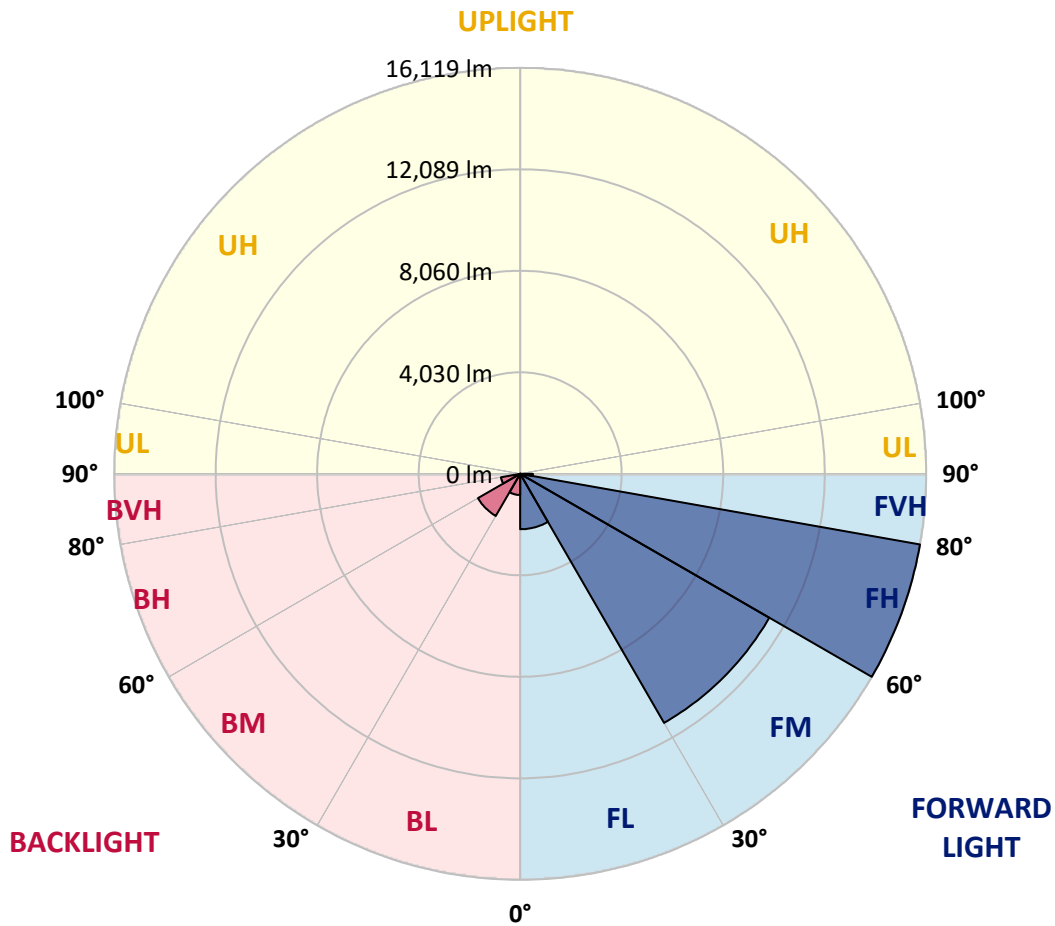
CATALOG NUMBER: GALN-SB8C-940-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2201.9	6.5			
FM (30°-60°)	11420.1	33.8			
FH (60°-80°)	16119.2	47.7			G5
FVH (80°-90°)	509.2	1.5			G4/750
BL (0°-30°)	841.2	2.5	B2/1000		
BM (30°-60°)	1931.6	5.7	B2/2500		
BH (60°-80°)	774.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



REPORT NUMBER: P955874

CATALOG NUMBER: GALN-SB8C-940-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3703.1	3703.1	3703.1	3703.1	3703.1	3703.1	3703.1	3703.1	3703.1	3703.1
2.5°	4044.5	4051.5	4046.9	4019.2	3973.0	3947.6	3933.8	3887.7	3857.7	3804.6
5°	4416.0	4443.7	4427.5	4372.2	4284.5	4222.2	4203.7	4109.2	4023.8	3924.6
7.5°	4810.5	4824.4	4794.4	4722.9	4605.2	4499.1	4482.9	4351.4	4215.3	4063.0
10°	5152.0	5168.2	5122.0	5018.2	4884.4	4752.9	4729.8	4584.4	4422.9	4236.0
12.5°	5438.1	5454.3	5394.3	5269.7	5122.0	4985.9	4962.8	4810.5	4632.9	4425.2
15°	5655.0	5685.0	5604.2	5470.4	5311.2	5175.1	5163.5	5013.6	4840.5	4609.8
17.5°	5781.9	5811.9	5735.7	5574.2	5438.1	5322.7	5308.9	5184.3	5022.8	4801.3
20°	5802.6	5830.3	5749.6	5608.8	5495.8	5403.5	5396.6	5306.6	5188.9	4976.7
22.5°	5740.4	5775.0	5701.1	5588.1	5509.6	5461.2	5452.0	5401.2	5334.3	5154.3
25°	5675.8	5703.4	5648.1	5548.9	5507.3	5502.7	5509.6	5500.4	5486.6	5334.3
27.5°	5671.1	5701.1	5638.8	5544.2	5521.2	5569.6	5576.5	5620.4	5631.9	5498.1
30°	5710.4	5731.1	5671.1	5571.9	5560.4	5671.1	5673.4	5751.9	5770.3	5636.5
32.5°	5795.7	5818.8	5758.8	5613.5	5597.3	5751.9	5758.8	5862.6	5892.6	5784.2
35°	5996.5	6024.1	5954.9	5728.8	5671.1	5828.0	5848.8	5971.1	6031.1	5941.1
37.5°	6497.1	6416.4	6321.8	5961.8	5839.6	5948.0	5982.6	6125.7	6231.8	6128.0
40°	7740.7	7486.9	7191.6	6358.7	6134.9	6204.1	6231.8	6374.8	6520.2	6418.7
42.5°	9607.2	9307.3	8832.0	7272.3	6580.2	6614.8	6635.6	6760.1	6965.5	6884.7
45°	11270.7	11162.3	10677.8	8832.0	7413.1	7242.3	7267.7	7332.3	7634.6	7604.6
47.5°	12548.9	12486.7	12112.9	10622.4	8820.5	8010.7	8082.2	8112.2	8548.2	8654.4
50°	13531.8	13508.7	13174.2	12214.4	10659.3	9143.5	9168.9	9104.3	9757.2	10020.2
52.5°	14459.3	14537.8	14290.9	13693.3	12622.8	10627.0	10622.4	10317.9	11199.2	11596.1
55°	15296.8	15324.5	15349.9	15202.2	14597.8	12315.9	12272.1	11773.7	12872.0	13282.6
57.5°	16083.6	16095.1	16321.2	16623.5	16653.5	14129.4	14048.6	13451.1	14699.3	14992.3
60°	16612.0	16665.0	17142.6	17982.4	18349.3	16000.5	15956.7	15347.6	16558.9	16695.0
62.5°	15850.6	16173.6	17377.9	19043.8	19950.5	18074.7	18054.0	17481.8	18515.4	18404.7
65°	12830.4	13377.2	15495.3	19761.3	21521.7	20391.2	20421.2	19812.1	20525.0	20165.1
67.5°	8975.1	9551.9	12057.5	19819.0	23277.5	23111.4	23284.4	22329.2	22659.2	21851.6
70°	6206.4	6504.0	8135.2	18577.7	24645.7	26858.3	26853.7	25420.9	24781.8	22619.9
72.5°	4173.8	4328.3	5283.5	14738.5	23639.7	29084.8	28950.9	27783.5	25497.0	21154.9
75°	1760.4	1873.5	2445.6	8282.9	18702.3	26609.1	26246.9	24553.4	22654.5	16658.1
77.5°	558.3	606.8	964.4	2964.8	10301.7	20001.3	19618.3	15333.8	15183.8	8356.7
80°	265.3	309.2	542.2	1190.5	4053.8	10878.5	10825.5	6956.3	6531.7	2256.5
82.5°	115.4	136.1	299.9	636.8	1813.5	3880.7	3959.2	2367.2	1958.8	856.0
85°	36.9	48.5	138.4	293.0	766.0	964.4	952.9	563.0	789.1	466.1
87.5°	0.0	0.0	46.1	66.9	78.4	55.4	62.3	48.5	219.2	129.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955874
 CATALOG NUMBER: GALN-SB8C-940-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3703.1	0°	3703.1	3703.1	3703.1	3703.1	3703.1	3703.1	3703.1	3703.1	3703.1	3703.1
3749.2	2.5°	3721.5	3684.6	3620.0	3560.0	3507.0	3453.9	3421.6	3375.5	3370.8	3370.8
3809.2	5°	3746.9	3686.9	3571.6	3449.3	3308.5	3174.7	3040.9	2911.7	2870.2	2840.2
3906.1	7.5°	3820.7	3726.2	3543.9	3310.9	3043.2	2750.2	2544.9	2323.4	2238.0	2191.9
4035.3	10°	3926.9	3797.7	3520.8	3112.4	2678.7	2279.5	1986.5	1746.6	1654.3	1615.1
4176.1	12.5°	4044.5	3885.4	3479.3	2865.6	2279.5	1801.9	1515.8	1405.1	1391.3	1391.3
4344.5	15°	4185.3	3991.5	3407.8	2574.9	1861.9	1425.9	1324.3	1329.0	1342.8	1352.0
4508.3	17.5°	4330.6	4104.5	3294.7	2249.5	1492.8	1282.8	1285.1	1292.0	1303.6	1312.8
4686.0	20°	4487.5	4217.6	3144.7	1903.5	1280.5	1241.3	1248.2	1255.1	1264.4	1269.0
4852.1	22.5°	4656.0	4323.7	2967.1	1564.3	1209.0	1206.7	1209.0	1215.9	1227.4	1227.4
5045.9	25°	4835.9	4441.4	2764.0	1317.4	1172.1	1172.1	1176.7	1181.3	1190.5	1190.5
5232.8	27.5°	5020.5	4549.8	2549.5	1188.2	1139.8	1137.5	1137.5	1144.4	1149.0	1151.3
5417.3	30°	5223.5	4676.7	2334.9	1160.5	1114.4	1102.8	1095.9	1100.5	1105.2	1107.5
5611.1	32.5°	5431.2	4799.0	2143.4	1172.1	1089.0	1068.2	1045.2	1040.6	1040.6	1049.8
5811.9	35°	5661.9	4932.8	1995.7	1211.3	1075.2	1017.5	980.6	959.8	962.1	976.0
6051.8	37.5°	5938.8	5094.3	1887.3	1245.9	1065.9	959.8	899.8	874.4	858.3	874.4
6381.8	40°	6301.0	5332.0	1808.9	1273.6	1054.4	892.9	812.1	770.6	740.6	749.8
6894.0	42.5°	6834.0	5705.7	1778.9	1275.9	1029.0	814.4	722.2	666.8	622.9	625.3
7664.6	45°	7581.5	6296.4	1933.4	1245.9	973.6	729.1	627.6	553.7	526.0	519.1
8815.9	47.5°	8605.9	7157.0	2291.1	1183.6	892.9	646.0	535.3	473.0	452.2	440.7
10327.1	50°	9978.7	8262.1	2687.9	1114.4	812.1	567.6	459.1	419.9	406.1	394.5
12119.8	52.5°	11570.7	9383.4	3013.2	1045.2	731.4	498.4	410.7	387.6	376.1	366.8
13850.2	55°	13031.2	10156.4	2994.8	971.3	652.9	443.0	376.1	362.2	348.4	339.2
15340.7	57.5°	13940.2	10264.8	2468.7	890.6	563.0	399.1	343.8	334.5	318.4	306.9
16630.4	60°	14357.8	9646.5	1730.4	784.5	473.0	357.6	309.2	304.6	283.8	267.6
17850.9	62.5°	14433.9	8497.5	1153.6	652.9	394.5	318.4	274.6	267.6	240.0	212.3
18843.0	65°	14124.8	6854.7	798.3	509.9	336.9	276.9	235.3	221.5	191.5	163.8
19078.4	67.5°	13146.5	4812.9	556.0	366.8	286.1	219.2	186.9	182.3	159.2	136.1
17878.6	70°	11353.8	2743.3	371.5	274.6	226.1	150.0	147.7	152.3	129.2	110.7
14607.0	72.5°	8705.1	1255.1	230.7	200.7	154.6	101.5	117.7	120.0	99.2	83.1
9113.5	75°	5124.3	537.6	145.4	129.2	78.4	66.9	85.4	87.7	66.9	53.1
3331.6	77.5°	1744.3	203.0	92.3	76.1	39.2	36.9	55.4	55.4	36.9	20.8
669.1	80°	396.8	76.1	46.1	30.0	18.5	16.2	18.5	16.2	9.2	2.3
205.3	82.5°	113.1	30.0	18.5	11.5	6.9	6.9	2.3	0.0	0.0	0.0
71.5	85°	32.3	13.8	4.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0
25.4	87.5°	13.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
3703.1
3382.4
2854.0
2198.8
1615.1
1391.3
1352.0
1312.8
1271.3
1232.1
1192.8
1153.6
1112.1
1056.7
982.9
869.8
745.2
616.0
509.9
433.8
392.2
364.5
334.5
304.6
263.0
198.4
154.6
129.2
101.5
73.8
46.1
16.2
0.0
0.0
0.0
0.0
0.0

F REPORT)