

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: P944646

Luminaire Tested: **GALN-SB9C-940-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-940-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38767 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

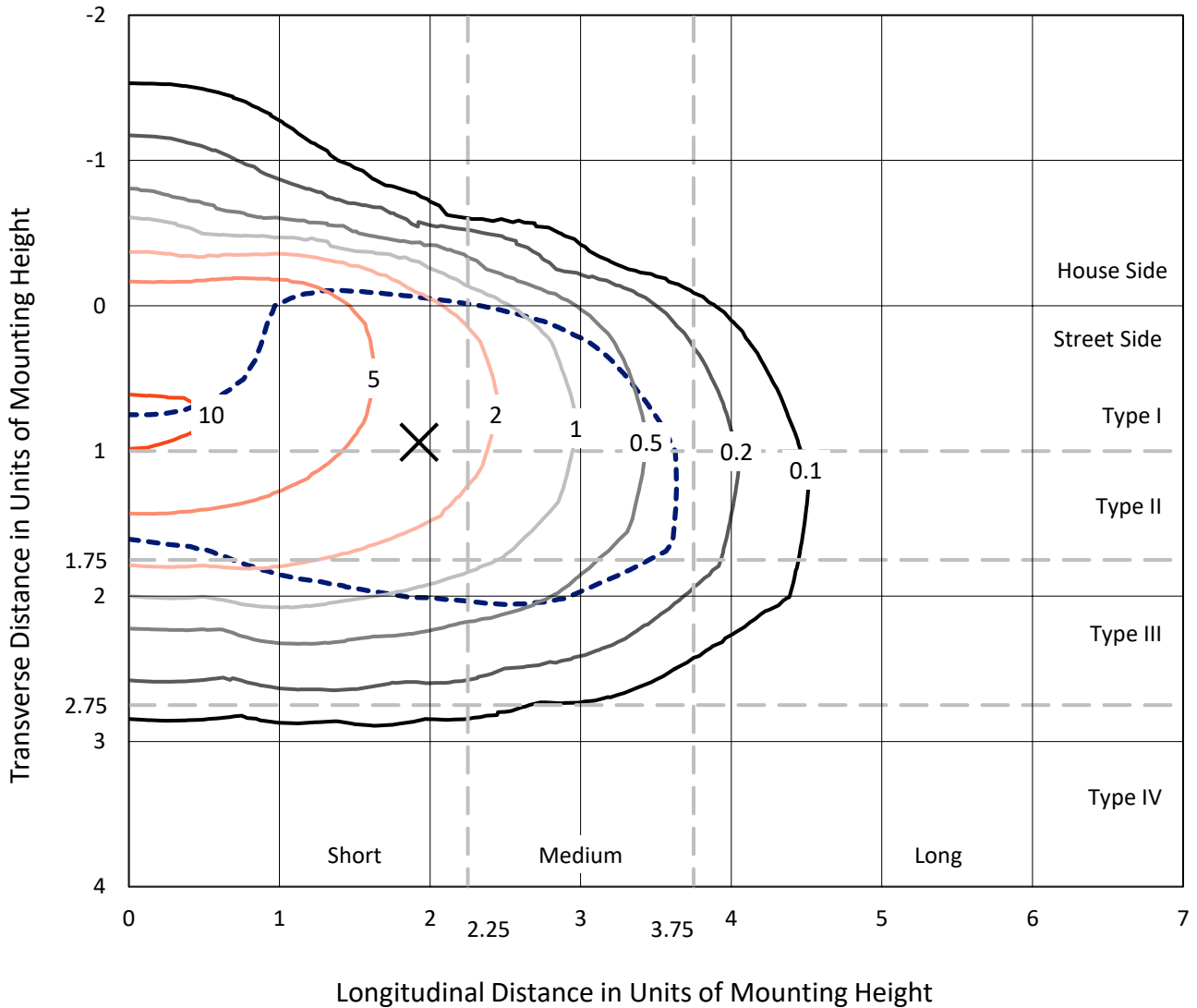
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944646
 CATALOG NUMBER: GALN-SB9C-940-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

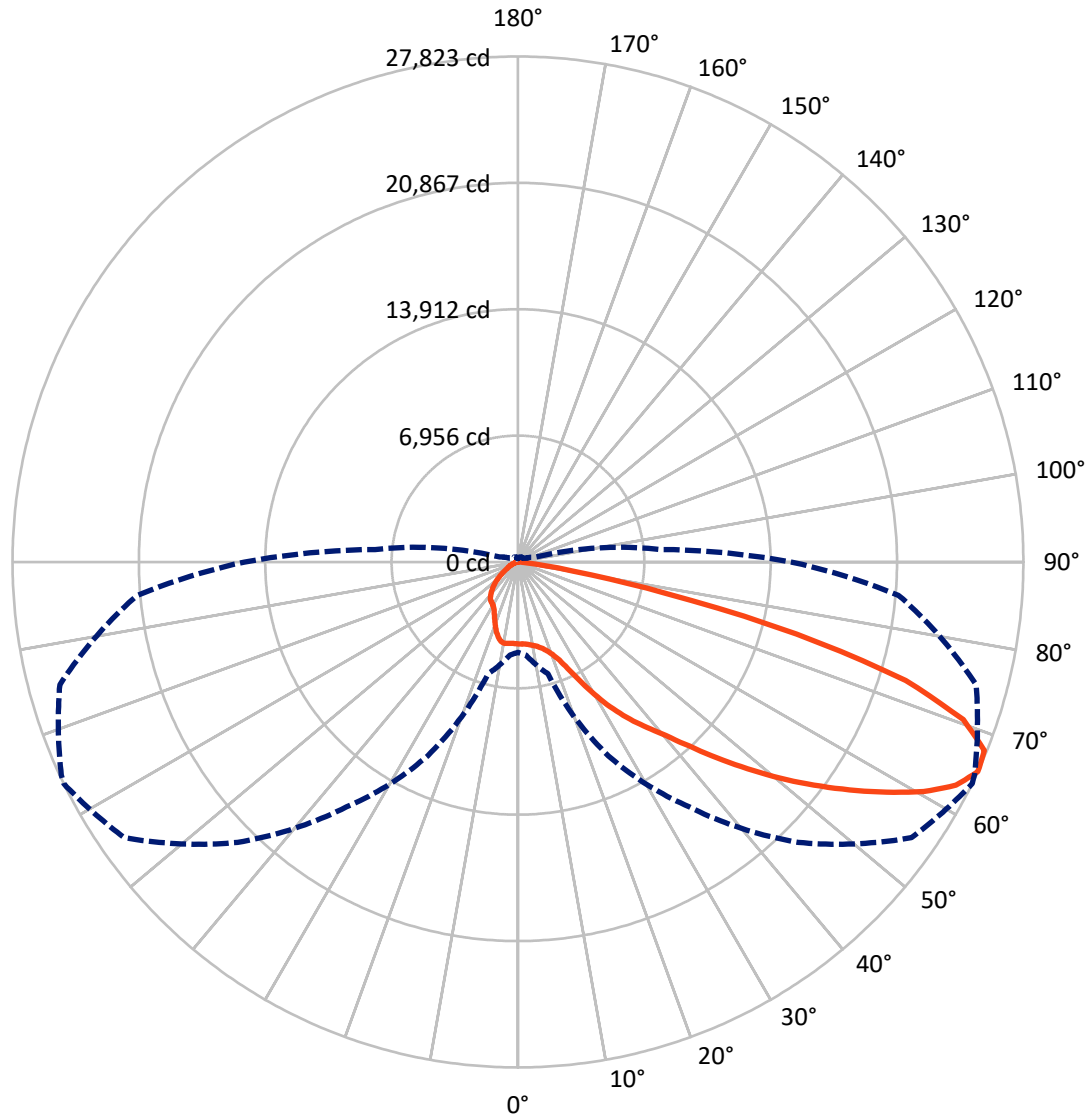
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type III - Short - N/A

REPORT NUMBER: P944646
CATALOG NUMBER: GALN-SB9C-940-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P944646

CATALOG NUMBER: GALN-SB9C-940-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5184.3	0.0	5184.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	33582.7	0.0	33582.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	38767.0	0.0	38767.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.0	1.1
10°-20°	1128.3	2.9
20°-30°	2138.1	5.5
30°-40°	4326.4	11.2
40°-50°	7370.1	19.0
50°-60°	10022.8	25.9
60°-70°	9411.9	24.3
70°-80°	3770.8	9.7
80°-90°	182.7	0.5
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°	38767.0	100.0
0°-180°	38767.0	100.0

Coefficient of Utilization



REPORT NUMBER: P944646

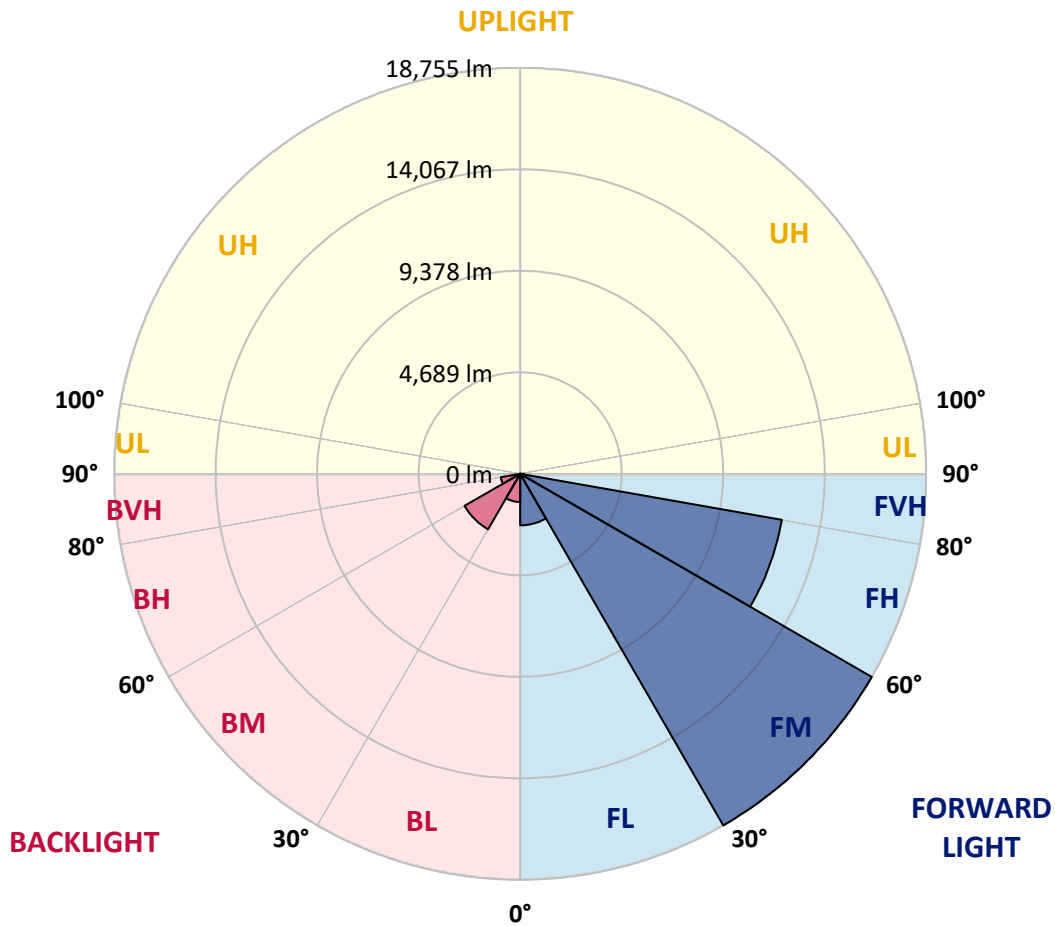
CATALOG NUMBER: GALN-SB9C-940-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2380.7	6.1			
FM (30°-60°)	18755.4	48.4			
FH (60°-80°)	12272.7	31.7			G5
FVH (80°-90°)	173.8	0.4			G2/225
BL (0°-30°)	1301.6	3.4	B3/2500		
BM (30°-60°)	2963.8	7.6	B3/5000		
BH (60°-80°)	909.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	8.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



REPORT NUMBER: P944646

CATALOG NUMBER: GALN-SB9C-940-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0
2.5°	4493.4	4524.6	4516.8	4509.0	4506.4	4511.6	4514.2	4511.6	4511.6	4511.6
5°	4407.6	4433.6	4433.6	4451.8	4477.8	4509.0	4532.4	4537.6	4542.8	4550.6
7.5°	4243.9	4264.7	4280.3	4340.1	4405.1	4488.2	4558.4	4594.8	4600.0	4628.6
10°	4132.2	4158.2	4184.1	4246.5	4340.1	4464.8	4584.4	4672.7	4685.7	4753.3
12.5°	4127.0	4153.0	4186.7	4254.3	4363.5	4496.0	4641.5	4768.9	4792.3	4891.0
15°	4181.5	4212.7	4243.9	4327.1	4444.0	4605.2	4761.1	4919.6	4943.0	5083.4
17.5°	4293.3	4334.9	4358.3	4441.4	4566.2	4745.5	4950.8	5132.7	5153.5	5317.2
20°	4514.2	4563.6	4571.4	4638.9	4761.1	4953.4	5197.7	5423.8	5449.8	5636.9
22.5°	4971.6	5041.8	4979.4	5013.2	5122.3	5314.6	5579.7	5865.6	5902.0	6115.1
25°	5777.2	5876.0	5714.9	5657.7	5704.5	5904.6	6237.2	6598.5	6640.1	6811.6
27.5°	7359.9	7232.6	6988.3	6749.2	6608.9	6723.2	7097.5	7544.5	7596.4	7762.8
30°	9098.6	8986.8	8656.8	8126.6	7794.0	7775.8	8121.4	8620.4	8680.2	8838.7
32.5°	10839.8	10733.3	10374.6	9722.3	9145.4	8859.5	9098.6	9652.1	9683.3	9784.7
35°	12552.4	12443.3	12084.7	11416.7	10707.3	10057.5	10010.8	10634.5	10644.9	10751.4
37.5°	14275.5	14184.5	13802.5	13147.6	12448.5	11551.9	11117.9	11564.9	11577.9	11681.8
40°	15504.7	15543.7	15281.2	14774.5	14174.1	13194.4	12360.1	12555.0	12477.1	12651.2
42.5°	16559.9	16637.8	16409.1	16154.5	15806.2	14943.4	13898.6	13864.9	13740.1	13833.7
45°	17472.1	17537.0	17331.7	17272.0	17264.2	16658.6	15580.1	15377.4	15203.3	15185.1
47.5°	17807.3	17932.1	18020.4	18220.5	18610.4	18355.7	17318.7	17004.3	16809.4	16666.4
50°	17934.7	18067.2	18368.7	18950.8	19873.4	19982.6	19049.6	18696.1	18457.0	18197.1
52.5°	17763.1	17999.6	18405.1	19384.8	20723.2	21287.2	20710.2	20401.0	20128.1	19704.5
55°	16752.2	16988.7	17817.7	19379.6	21146.8	22202.0	22279.9	22142.2	21835.5	21167.6
57.5°	14621.1	14972.0	16284.4	18719.5	21139.0	22989.4	23818.5	23917.2	23574.2	22617.8
60°	11668.8	12144.4	13745.3	17256.4	20486.7	23415.6	25167.3	25661.0	25297.2	24047.2
62.5°	8142.2	8693.2	10208.3	14964.2	18995.0	23109.0	26152.2	27064.4	26788.9	25325.8
65°	4966.4	5143.1	6364.6	11775.4	16458.5	21825.1	26456.3	27823.3	27732.3	26108.0
67.5°	3308.3	3456.5	3807.3	8074.6	12775.9	19260.1	25728.6	27690.7	27716.7	25980.7
70°	1993.3	2120.7	2349.4	4696.1	8279.9	15244.9	23475.4	26001.5	26152.2	24278.5
72.5°	821.2	907.0	1114.9	2128.5	4288.1	9675.5	18693.5	22324.1	22675.0	20414.0
75°	465.2	509.4	654.9	1068.1	1860.8	4509.0	11323.2	15847.8	16365.0	14070.2
77.5°	309.3	330.1	423.6	691.3	1047.3	1538.5	4839.1	8256.5	9244.1	7684.8
80°	207.9	226.1	291.1	462.6	680.9	660.1	1541.1	3058.8	3763.1	2640.4
82.5°	140.3	142.9	207.9	304.1	431.4	319.7	454.8	951.2	1195.5	764.1
85°	80.6	78.0	153.3	176.7	192.3	132.5	137.7	285.9	374.2	322.3
87.5°	10.4	15.6	59.8	46.8	26.0	28.6	28.6	49.4	72.8	78.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944646
 CATALOG NUMBER: GALN-SB9C-940-U-T3-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4509.0	0°	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0	4509.0
4514.2	2.5°	4514.2	4511.6	4503.8	4496.0	4477.8	4467.4	4472.6	4467.4	4464.8	4467.4
4548.0	5°	4548.0	4540.2	4519.4	4493.4	4457.0	4412.8	4384.3	4342.7	4303.7	4280.3
4638.9	7.5°	4638.9	4631.2	4602.6	4529.8	4412.8	4228.3	4059.4	3911.3	3799.5	3734.5
4784.5	10°	4784.5	4771.5	4727.3	4566.2	4259.5	3856.7	3521.4	3243.4	3061.4	2975.7
4956.0	12.5°	4956.0	4940.4	4862.4	4532.4	3968.4	3339.5	2876.9	2567.7	2398.7	2323.4
5153.5	15°	5158.7	5137.9	4984.6	4371.3	3544.8	2767.8	2344.2	2112.9	2003.7	1936.1
5405.6	17.5°	5410.8	5374.4	5075.6	4129.6	3084.8	2331.2	2016.7	1842.6	1746.4	1681.5
5735.7	20°	5738.3	5678.5	5148.3	3841.1	2661.2	2055.7	1795.8	1650.3	1577.5	1520.3
6203.5	22.5°	6195.7	6109.9	5236.7	3529.2	2362.4	1866.0	1632.1	1525.5	1465.8	1400.8
6855.8	25°	6762.2	6660.9	5345.8	3240.8	2157.0	1702.2	1512.5	1424.2	1354.0	1278.6
7710.8	27.5°	7554.9	7372.9	5475.8	3004.3	1980.3	1561.9	1403.4	1304.6	1224.1	1161.7
8680.2	30°	8438.5	8139.6	5590.1	2861.3	1819.2	1432.0	1260.4	1161.7	1086.3	1042.1
9550.8	32.5°	9275.3	8869.9	5665.5	2799.0	1673.7	1283.8	1104.5	998.0	940.8	927.8
10403.2	35°	10065.3	9530.0	5657.7	2739.2	1543.7	1135.7	951.2	842.0	797.8	805.6
11320.6	37.5°	10974.9	10234.3	5603.1	2645.6	1437.2	1000.6	818.6	722.5	683.5	686.1
12435.5	40°	12032.7	11047.7	5569.3	2468.9	1320.2	875.8	709.5	631.5	602.9	592.5
13610.2	42.5°	13160.6	11835.2	5574.5	2268.8	1174.7	764.1	634.1	569.1	543.2	535.4
14917.4	45°	14293.7	12586.2	5582.3	2060.9	1021.3	678.3	579.5	525.0	509.4	499.0
16242.8	47.5°	15359.2	13225.5	5436.8	1837.4	870.6	613.3	535.4	499.0	486.0	473.0
17573.4	50°	16352.0	13651.8	5085.9	1577.5	751.1	561.4	501.6	475.6	462.6	449.6
18779.3	52.5°	17123.8	13719.3	4506.4	1309.8	667.9	522.4	480.8	457.4	441.8	428.8
19753.9	55°	17466.9	13295.7	3682.6	1060.3	602.9	488.6	460.0	436.6	418.4	405.4
20520.5	57.5°	17378.5	12404.3	2871.7	852.4	540.6	454.8	434.0	418.4	397.6	376.8
21141.6	60°	16944.5	11211.4	2164.8	709.5	483.4	418.4	405.4	392.4	363.8	332.7
21380.7	62.5°	16193.4	9711.9	1543.7	587.3	421.0	376.8	371.6	361.2	319.7	262.5
21027.3	65°	15044.7	7890.1	1039.5	488.6	361.2	330.1	332.7	314.5	259.9	194.9
19733.1	67.5°	13365.9	5769.4	665.3	400.2	301.5	275.5	278.1	267.7	220.9	166.3
17279.8	70°	11227.0	3820.3	434.0	304.1	241.7	213.1	228.7	231.3	187.1	135.1
13261.9	72.5°	8230.6	2255.8	304.1	226.1	176.7	148.1	187.1	192.3	150.7	101.4
7978.5	75°	4690.9	1070.7	228.7	163.7	109.2	104.0	145.5	145.5	104.0	67.6
3453.9	77.5°	1969.9	447.0	161.1	106.6	62.4	59.8	98.8	91.0	52.0	31.2
842.0	80°	569.1	200.1	85.8	52.0	26.0	23.4	39.0	28.6	13.0	5.2
319.7	82.5°	223.5	88.4	33.8	20.8	10.4	10.4	5.2	0.0	0.0	0.0
181.9	85°	132.5	36.4	15.6	7.8	2.6	0.0	0.0	0.0	0.0	0.0
39.0	87.5°	33.8	7.8	5.2	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>
4509.0
4477.8
4285.5
3737.1
2967.9
2315.6
1938.7
1676.3
1509.9
1390.4
1270.8
1148.7
1034.3
935.6
805.6
696.5
589.9
532.8
499.0
473.0
449.6
426.2
402.8
374.2
327.5
257.3
189.7
158.5
129.9
96.2
62.4
31.2
5.2
0.0
0.0
0.0
0.0

F REPORT)