

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: P957302

Luminaire Tested: **GALN-SB9C-940-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957302  
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-SB9C-940-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

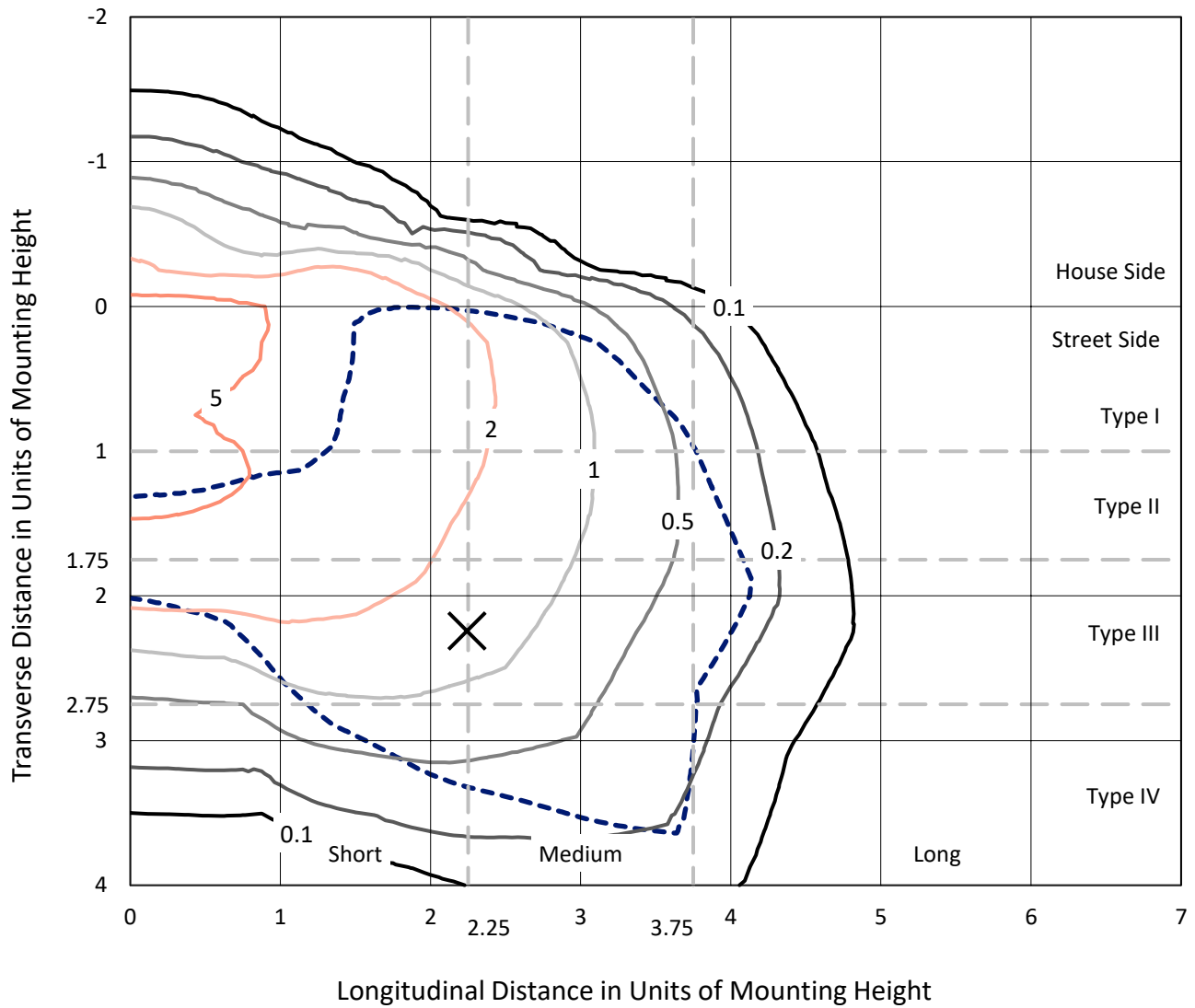
Lumens per Lamp: N/A  
Luminaire Lumens: 38075 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P957302  
 CATALOG NUMBER: GALN-SB9C-940-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

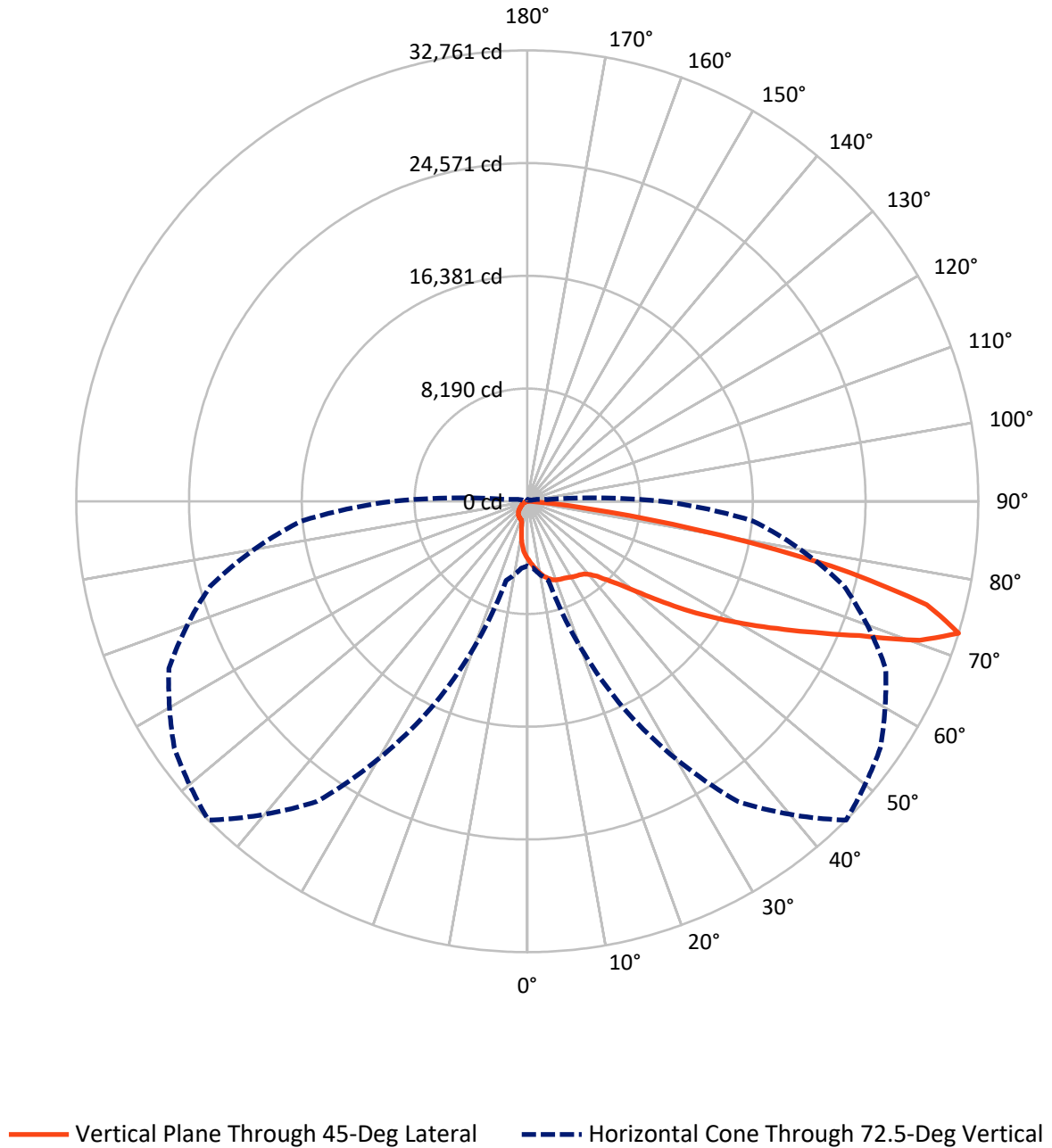
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type IV - Short - N/A

REPORT NUMBER: P957302  
CATALOG NUMBER: GALN-SB9C-940-U-T4W-HSS

### Luminous Intensity Polar Plot



REPORT NUMBER: P957302  
 CATALOG NUMBER: GALN-SB9C-940-U-T4W-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4000.6	0.0	4000.6
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	34074.4	0.0	34074.4
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	38075.0	0.0	38075.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	393.0	1.0
10°-20°	1148.6	3.0
20°-30°	1886.2	5.0
30°-40°	2675.1	7.0
40°-50°	4421.6	11.6
50°-60°	7942.9	20.9
60°-70°	11029.1	29.0
70°-80°	8000.2	21.0
80°-90°	578.4	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°	38075.0	100.0
0°-180°	38075.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P957302

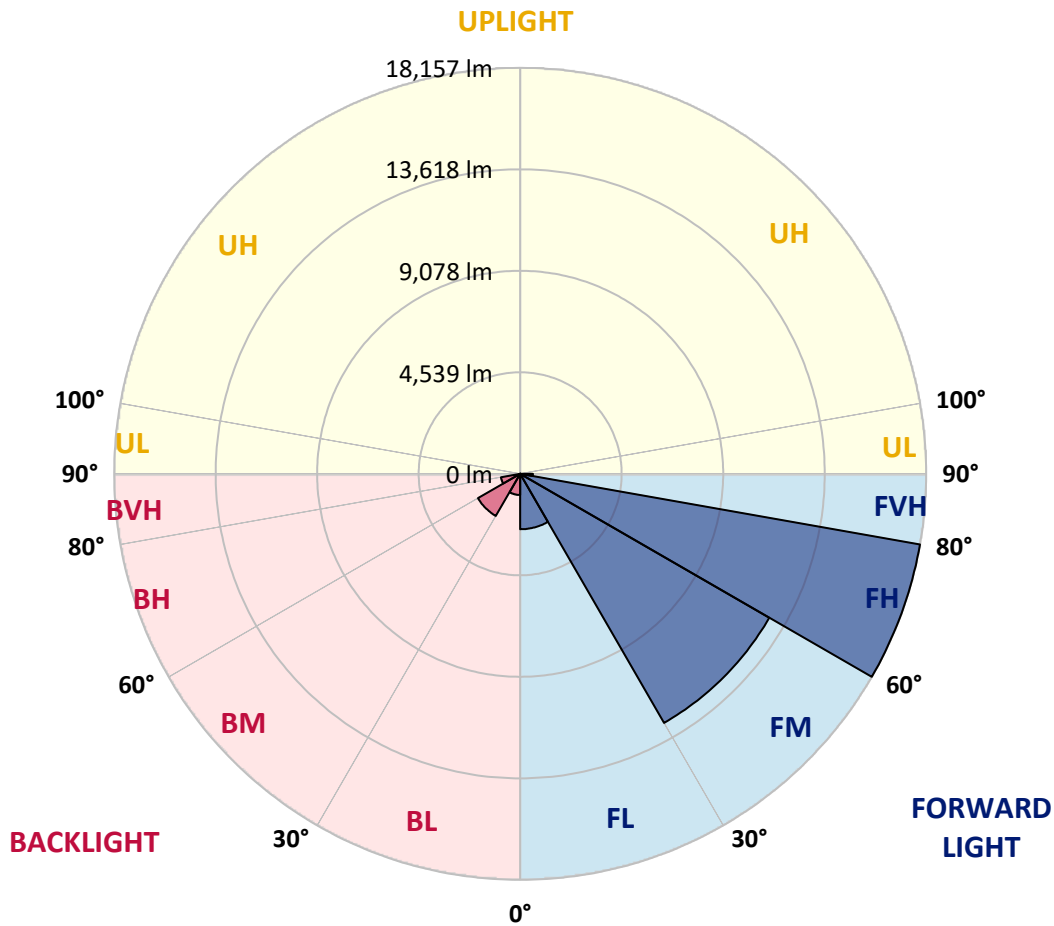
CATALOG NUMBER: GALN-SB9C-940-U-T4W-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2480.2	6.5			
FM (30°-60°)	12863.8	33.8			
FH (60°-80°)	18156.9	47.7			G5
FVH (80°-90°)	573.5	1.5			G4/750
BL (0°-30°)	947.6	2.5	B2/1000		
BM (30°-60°)	2175.8	5.7	B2/2500		
BH (60°-80°)	872.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	4.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short



REPORT NUMBER: P957302  
 CATALOG NUMBER: GALN-SB9C-940-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4171.2	4171.2	4171.2	4171.2	4171.2	4171.2	4171.2	4171.2	4171.2	4171.2
2.5°	4555.8	4563.6	4558.4	4527.2	4475.3	4446.7	4431.1	4379.1	4345.3	4285.5
5°	4974.3	5005.4	4987.2	4924.9	4826.1	4755.9	4735.2	4628.6	4532.4	4420.7
7.5°	5418.7	5434.3	5400.5	5319.9	5187.4	5067.8	5049.6	4901.5	4748.1	4576.6
10°	5803.3	5821.5	5769.5	5652.6	5501.8	5353.7	5327.7	5164.0	4982.0	4771.5
12.5°	6125.6	6143.7	6076.2	5935.8	5769.5	5616.2	5590.2	5418.7	5218.5	4984.6
15°	6369.8	6403.6	6312.7	6161.9	5982.6	5829.3	5816.3	5647.4	5452.4	5192.6
17.5°	6512.8	6546.6	6460.8	6278.9	6125.6	5995.6	5980.0	5839.7	5657.8	5408.3
20°	6536.2	6567.4	6476.4	6317.9	6190.5	6086.6	6078.8	5977.4	5844.9	5605.8
22.5°	6466.0	6505.0	6421.8	6294.5	6206.1	6151.5	6141.1	6084.0	6008.6	5805.9
25°	6393.2	6424.4	6362.1	6250.3	6203.5	6198.3	6206.1	6195.7	6180.1	6008.6
27.5°	6388.0	6421.8	6351.7	6245.1	6219.1	6273.7	6281.5	6330.9	6343.9	6193.1
30°	6432.2	6455.6	6388.0	6276.3	6263.3	6388.0	6390.6	6479.0	6499.8	6349.1
32.5°	6528.4	6554.4	6486.8	6323.1	6304.9	6479.0	6486.8	6603.7	6637.5	6515.4
35°	6754.5	6785.7	6707.7	6453.0	6388.0	6564.8	6588.2	6725.9	6793.5	6692.1
37.5°	7318.4	7227.5	7120.9	6715.5	6577.8	6699.9	6738.9	6900.0	7019.6	6902.6
40°	8719.2	8433.4	8100.7	7162.5	6910.4	6988.4	7019.6	7180.7	7344.4	7230.1
42.5°	10821.7	10483.9	9948.5	8191.7	7412.0	7451.0	7474.4	7614.7	7846.0	7755.0
45°	12695.5	12573.4	12027.6	9948.5	8350.2	8157.9	8186.5	8259.2	8599.7	8565.9
47.5°	14135.3	14065.1	13644.1	11965.2	9935.5	9023.3	9103.9	9137.7	9628.8	9748.4
50°	15242.4	15216.4	14839.6	13758.5	12006.8	10299.3	10327.9	10255.2	10990.6	11286.9
52.5°	16287.2	16375.5	16097.4	15424.3	14218.5	11970.4	11965.2	11622.2	12614.9	13062.0
55°	17230.6	17261.7	17290.3	17124.0	16443.1	13872.8	13823.4	13262.1	14499.1	14961.7
57.5°	18116.8	18129.8	18384.5	18724.9	18758.7	15915.5	15824.6	15151.5	16557.4	16887.5
60°	18711.9	18771.7	19309.7	20255.6	20668.9	18023.2	17973.8	17287.7	18652.1	18805.5
62.5°	17854.3	18218.1	19574.7	21451.1	22472.5	20359.6	20336.2	19691.7	20856.0	20731.2
65°	14452.4	15068.3	17454.1	22259.4	24242.3	22968.9	23002.7	22316.6	23119.6	22714.2
67.5°	10109.6	10759.3	13581.7	22324.4	26220.1	26032.9	26227.9	25151.9	25523.6	24614.0
70°	6991.0	7326.2	9163.6	20926.2	27761.2	30253.5	30248.3	28634.4	27914.5	25479.4
72.5°	4701.4	4875.5	5951.4	16601.6	26628.1	32761.4	32610.7	31295.7	28720.2	23829.1
75°	1982.9	2110.3	2754.8	9330.0	21066.5	29972.8	29564.8	27657.2	25518.4	18763.9
77.5°	628.9	683.5	1086.3	3339.6	11604.0	22529.7	22098.2	17272.1	17103.2	9413.1
80°	298.9	348.2	610.7	1341.0	4566.2	12253.7	12193.9	7835.6	7357.4	2541.7
82.5°	129.9	153.3	337.9	717.3	2042.7	4371.3	4459.7	2666.4	2206.4	964.2
85°	41.6	54.6	155.9	330.1	862.8	1086.3	1073.3	634.1	888.8	525.0
87.5°	0.0	0.0	52.0	75.4	88.4	62.4	70.2	54.6	246.9	145.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P957302  
 CATALOG NUMBER: GALN-SB9C-940-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4171.2	0°	4171.2	4171.2	4171.2	4171.2	4171.2	4171.2	4171.2	4171.2	4171.2	4171.2
4223.2	2.5°	4192.0	4150.4	4077.6	4010.1	3950.3	3890.5	3854.1	3802.2	3797.0	3797.0
4290.7	5°	4220.6	4153.0	4023.1	3885.3	3726.8	3576.1	3425.3	3279.8	3233.0	3199.2
4399.9	7.5°	4303.7	4197.2	3991.9	3729.4	3427.9	3097.9	2866.6	2617.1	2520.9	2468.9
4545.4	10°	4423.3	4277.8	3965.9	3505.9	3017.3	2567.7	2237.6	1967.3	1863.4	1819.2
4704.0	12.5°	4555.8	4376.5	3919.1	3227.8	2567.7	2029.7	1707.5	1582.7	1567.1	1567.1
4893.7	15°	4714.4	4496.1	3838.5	2900.3	2097.3	1606.1	1491.8	1497.0	1512.5	1522.9
5078.2	17.5°	4878.1	4623.4	3711.2	2533.9	1681.5	1445.0	1447.6	1455.4	1468.4	1478.8
5278.3	20°	5054.8	4750.7	3542.3	2144.1	1442.4	1398.2	1406.0	1413.8	1424.2	1429.4
5465.4	22.5°	5244.5	4870.3	3342.2	1762.0	1361.8	1359.2	1361.8	1369.6	1382.6	1382.6
5683.7	25°	5447.2	5002.8	3113.5	1484.0	1320.2	1320.2	1325.4	1330.6	1341.0	1341.0
5894.3	27.5°	5655.2	5125.0	2871.8	1338.4	1283.8	1281.2	1281.2	1289.0	1294.2	1296.8
6102.2	30°	5883.9	5267.9	2630.1	1307.2	1255.3	1242.3	1234.5	1239.7	1244.9	1247.5
6320.5	32.5°	6117.8	5405.7	2414.4	1320.2	1226.7	1203.3	1177.3	1172.1	1172.1	1182.5
6546.6	35°	6377.6	5556.4	2248.0	1364.4	1211.1	1146.1	1104.5	1081.1	1083.7	1099.3
6816.9	37.5°	6689.5	5738.3	2125.9	1403.4	1200.7	1081.1	1013.6	985.0	966.8	985.0
7188.5	40°	7097.5	6006.0	2037.5	1434.6	1187.7	1005.8	914.8	868.0	834.2	844.6
7765.4	42.5°	7697.9	6427.0	2003.7	1437.2	1159.1	917.4	813.4	751.1	701.7	704.3
8633.5	45°	8539.9	7092.3	2177.9	1403.4	1096.7	821.2	706.9	623.7	592.5	584.7
9930.3	47.5°	9693.8	8061.7	2580.7	1333.2	1005.8	727.7	602.9	532.8	509.4	496.4
11632.6	50°	11240.1	9306.6	3027.7	1255.3	914.8	639.3	517.2	473.0	457.4	444.4
13651.9	52.5°	13033.4	10569.6	3394.1	1177.3	823.8	561.4	462.6	436.6	423.6	413.2
15601.1	55°	14678.5	11440.3	3373.3	1094.1	735.5	499.0	423.6	408.0	392.4	382.0
17279.9	57.5°	15702.4	11562.4	2780.8	1003.2	634.1	449.6	387.2	376.8	358.6	345.7
18732.7	60°	16172.8	10865.9	1949.2	883.6	532.8	402.8	348.2	343.1	319.7	301.5
20107.5	62.5°	16258.6	9571.7	1299.4	735.5	444.4	358.6	309.3	301.5	270.3	239.1
21225.0	65°	15910.3	7721.3	899.2	574.4	379.4	311.9	265.1	249.5	215.7	184.5
21490.1	67.5°	14808.4	5421.3	626.3	413.2	322.3	246.9	210.5	205.3	179.3	153.3
20138.7	70°	12789.1	3090.1	418.4	309.3	254.7	168.9	166.3	171.5	145.5	124.7
16453.5	72.5°	9805.6	1413.8	259.9	226.1	174.1	114.4	132.5	135.1	111.8	93.6
10265.6	75°	5772.1	605.5	163.7	145.5	88.4	75.4	96.2	98.8	75.4	59.8
3752.8	77.5°	1964.8	228.7	104.0	85.8	44.2	41.6	62.4	62.4	41.6	23.4
753.7	80°	447.0	85.8	52.0	33.8	20.8	18.2	20.8	18.2	10.4	2.6
231.3	82.5°	127.3	33.8	20.8	13.0	7.8	7.8	2.6	0.0	0.0	0.0
80.6	85°	36.4	15.6	5.2	5.2	0.0	0.0	0.0	0.0	0.0	0.0
28.6	87.5°	15.6	2.6	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>
4171.2
3810.0
3214.8
2476.7
1819.2
1567.1
1522.9
1478.8
1432.0
1387.8
1343.6
1299.4
1252.7
1190.3
1107.1
979.8
839.4
693.9
574.4
488.6
441.8
410.6
376.8
343.1
296.3
223.5
174.1
145.5
114.4
83.2
52.0
18.2
0.0
0.0
0.0
0.0
0.0

F REPORT)