

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: P947510

Luminaire Tested: **GALN-SB2D-830-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947510  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2D-830-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

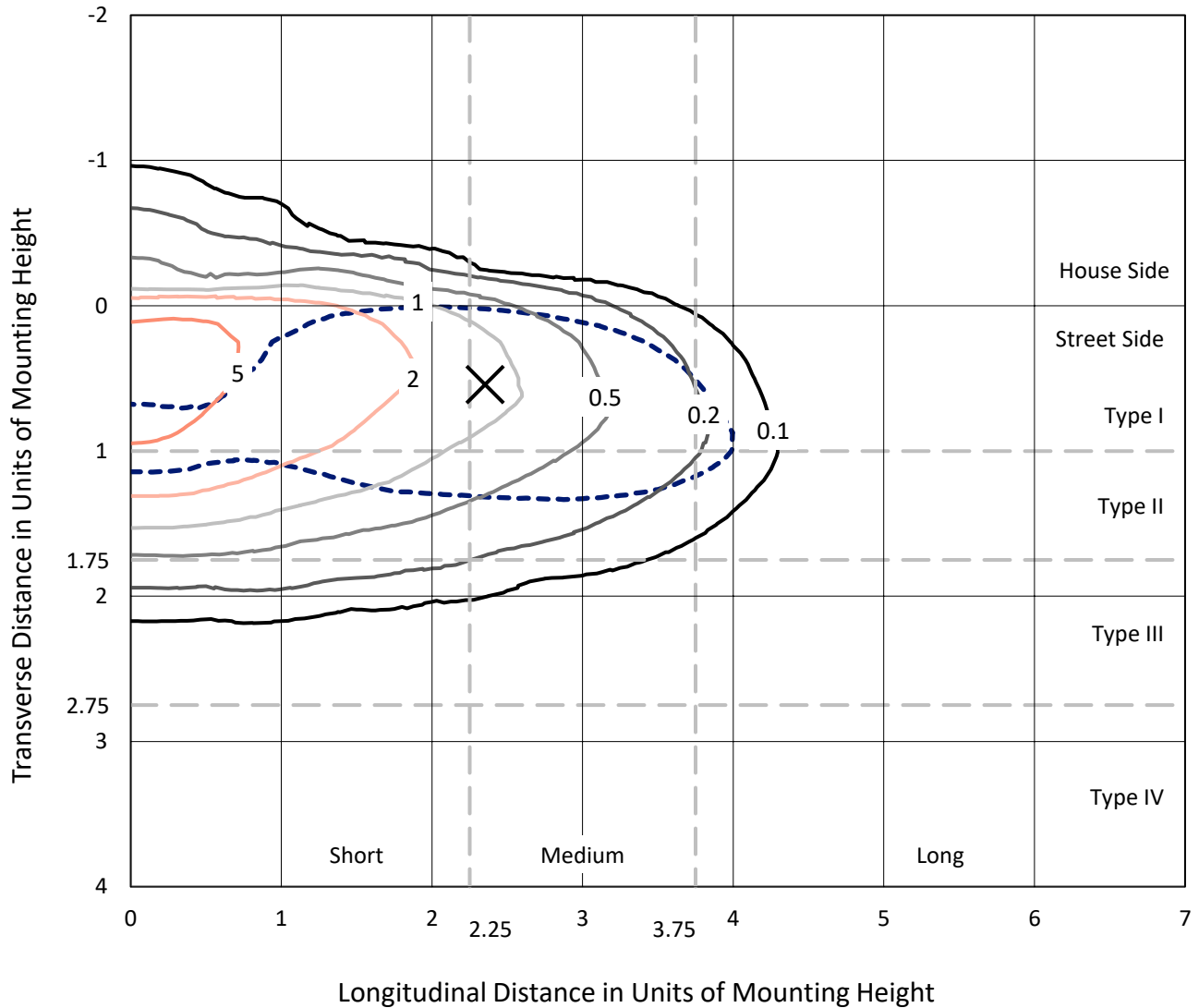
Lumens per Lamp: N/A  
Luminaire Lumens: 15482 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P947510  
 CATALOG NUMBER: GALN-SB2D-830-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

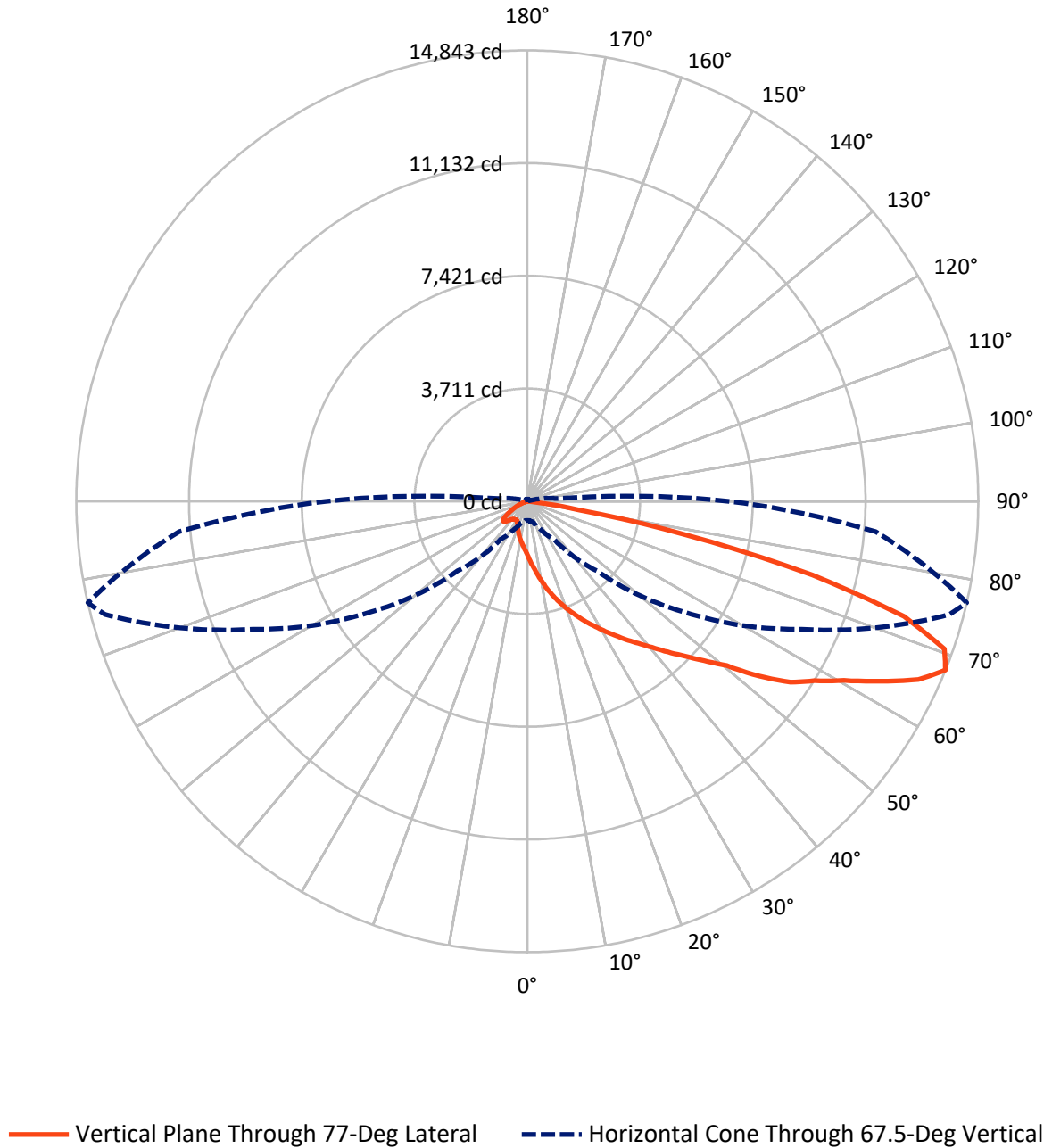
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type II - Medium - N/A

REPORT NUMBER: P947510  
CATALOG NUMBER: GALN-SB2D-830-U-T2R-HSS

### Luminous Intensity Polar Plot



REPORT NUMBER: P947510  
 CATALOG NUMBER: GALN-SB2D-830-U-T2R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1139.0	0.0	1139.0
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	14343.0	0.0	14343.0
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	15482.0	0.0	15482.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.2	1.2
10°-20°	638.1	4.1
20°-30°	1231.4	8.0
30°-40°	2137.7	13.8
40°-50°	3103.9	20.0
50°-60°	3564.4	23.0
60°-70°	3094.6	20.0
70°-80°	1457.6	9.4
80°-90°	72.1	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°	15482.0	100.0
0°-180°	15482.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P947510

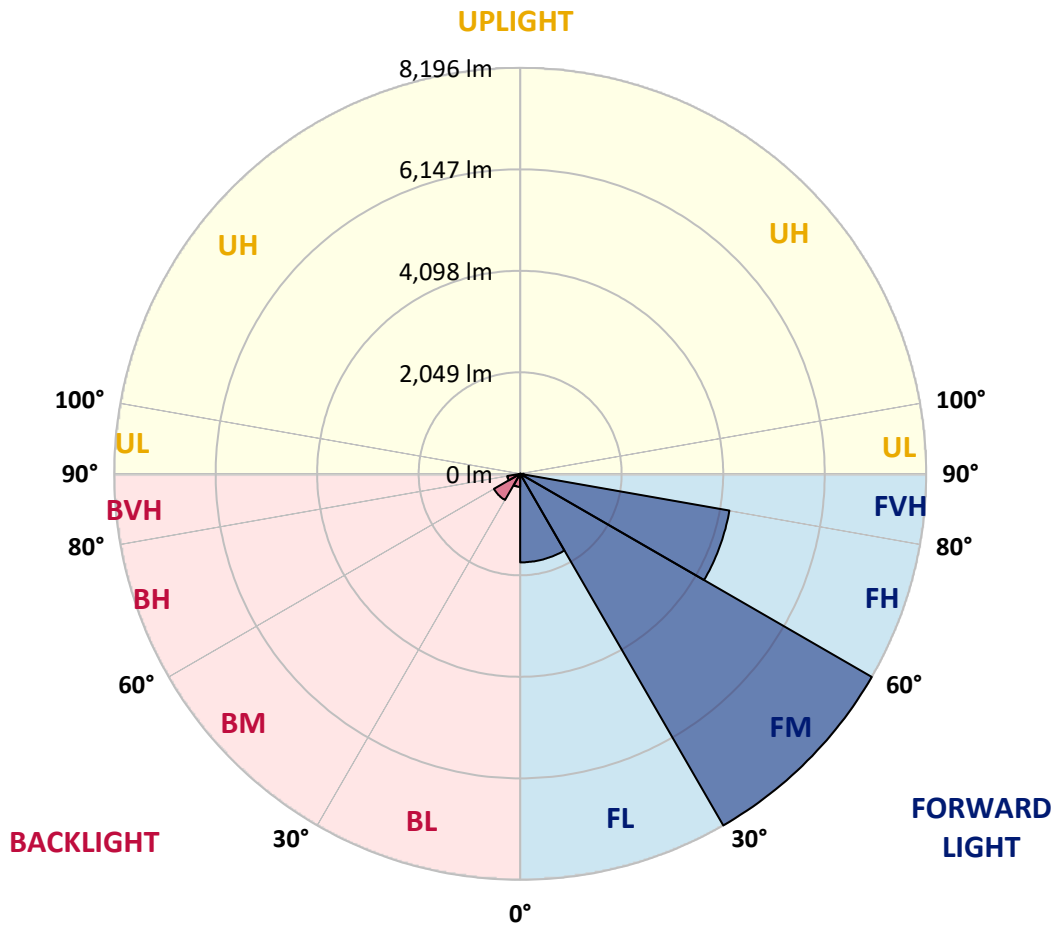
CATALOG NUMBER: GALN-SB2D-830-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1788.0	11.5			
FM (30°-60°)	8195.8	52.9			
FH (60°-80°)	4288.5	27.7			G2/5000
FVH (80°-90°)	70.8	0.5			G1/100
BL (0°-30°)	263.7	1.7	B1/500		
BM (30°-60°)	610.3	3.9	B1/1000		
BH (60°-80°)	263.7	1.7	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Medium



REPORT NUMBER: P947510  
 CATALOG NUMBER: GALN-SB2D-830-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1785.3	1785.3	1785.3	1785.3	1785.3	1785.3	1785.3	1785.3	1785.3	1785.3
2.5°	2471.7	2487.1	2465.0	2422.7	2359.3	2317.9	2217.0	2121.8	2016.0	1982.4
5°	3013.0	3026.5	3001.5	2955.3	2870.7	2790.0	2657.3	2458.3	2251.6	2185.2
7.5°	3413.9	3421.6	3412.0	3369.7	3288.9	3197.6	3049.5	2814.0	2507.3	2434.2
10°	3702.3	3727.3	3724.4	3708.1	3654.2	3580.2	3422.6	3154.3	2793.8	2699.6
12.5°	3893.6	3921.5	3937.9	3974.4	3971.5	3924.4	3786.0	3502.3	3079.3	2968.8
15°	3949.4	3979.2	4041.7	4126.3	4201.3	4225.3	4128.2	3843.6	3393.7	3252.4
17.5°	3917.7	3963.8	4038.8	4172.4	4336.8	4445.5	4434.9	4173.4	3679.2	3517.7
20°	3987.8	4032.1	4090.7	4203.2	4394.5	4591.6	4670.4	4488.7	3962.9	3793.6
22.5°	4376.2	4368.6	4374.3	4392.6	4507.0	4702.2	4864.6	4775.2	4243.6	4070.5
25°	4991.5	4956.9	4898.3	4799.3	4770.4	4864.6	5033.8	5029.0	4539.7	4354.1
27.5°	5697.2	5691.4	5554.0	5315.5	5180.9	5144.4	5225.2	5276.1	4832.9	4634.9
30°	6373.1	6388.4	6202.9	5937.5	5690.5	5547.2	5474.2	5510.7	5130.9	4937.7
32.5°	6961.4	6977.8	6775.9	6465.4	6159.6	5986.6	5832.8	5742.4	5455.9	5245.3
35°	7458.5	7474.8	7243.1	6899.9	6574.0	6417.3	6243.3	5996.2	5782.8	5586.6
37.5°	7902.6	7897.8	7587.3	7241.2	6921.1	6797.0	6705.7	6308.6	6119.3	5929.9
40°	8165.1	8185.3	7919.9	7538.3	7227.7	7137.4	7131.6	6696.1	6507.7	6324.0
42.5°	8242.0	8277.6	8085.3	7771.9	7490.2	7392.1	7543.1	7115.3	6959.5	6780.7
45°	8103.6	8138.2	8050.7	7833.4	7669.0	7605.6	7896.9	7549.8	7442.1	7265.2
47.5°	7699.8	7743.0	7764.2	7718.0	7716.1	7780.5	8214.1	8007.4	8015.1	7834.4
50°	6918.2	6991.2	7185.4	7348.9	7601.7	7919.0	8522.7	8503.5	8661.2	8505.4
52.5°	5497.2	5601.1	6270.2	6717.2	7285.4	7893.0	8862.1	9299.5	9794.6	9566.8
55°	4417.6	4417.6	4961.7	5798.1	6668.2	7721.9	9010.2	9816.8	10566.6	10512.8
57.5°	3601.4	3644.6	3991.7	4731.0	5775.1	7314.3	9101.5	10141.7	11188.7	11149.2
60°	2222.7	2316.0	2971.7	3701.4	4758.9	6588.4	9043.8	10470.5	11943.4	11975.1
62.5°	1251.7	1286.3	1578.6	2663.1	3700.4	5612.6	8602.5	10654.1	12908.6	13043.2
65°	864.3	881.6	994.1	1657.4	2565.0	4468.5	7740.2	10539.7	13875.7	14147.8
67.5°	627.8	636.4	706.6	1012.3	1521.9	3239.9	6388.4	9962.9	14388.2	14842.9
70°	482.6	488.4	539.3	665.3	898.9	1999.7	4639.7	8816.0	14017.1	14560.3
72.5°	392.2	398.0	437.4	492.2	596.1	1182.5	2812.1	7159.5	12378.9	12965.3
75°	330.7	338.4	374.0	409.6	467.2	759.5	1319.0	4985.8	9309.1	9693.7
77.5°	183.6	169.2	303.8	339.4	394.2	480.7	617.2	2934.2	5213.6	5320.3
80°	114.4	118.3	241.3	273.0	302.8	242.3	282.6	1129.6	1807.4	1717.0
82.5°	6.7	15.4	185.5	197.1	207.7	103.8	106.7	383.6	435.5	399.9
85°	0.0	0.0	84.6	68.3	72.1	29.8	30.8	89.4	58.6	63.5
87.5°	0.0	0.0	0.0	1.9	0.0	2.9	5.8	7.7	2.9	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947510  
 CATALOG NUMBER: GALN-SB2D-830-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1785.3	0°	1785.3	1785.3	1785.3	1785.3	1785.3	1785.3	1785.3	1785.3	1785.3	1785.3
1876.6	2.5°	1809.3	1742.0	1605.5	1471.9	1363.3	1262.3	1190.2	1121.9	1087.3	1085.4
1997.8	5°	1864.1	1722.8	1449.8	1208.5	1014.3	858.5	757.6	685.5	648.9	636.4
2146.8	7.5°	1941.0	1728.6	1313.3	977.7	748.9	615.3	557.6	534.5	526.8	518.2
2315.0	10°	2038.1	1742.0	1191.2	787.4	590.3	523.0	499.9	490.3	484.5	478.8
2504.4	12.5°	2146.8	1754.5	1070.0	653.7	519.2	484.5	468.2	456.7	449.0	442.2
2698.6	15°	2252.5	1762.2	944.1	560.5	482.6	454.7	437.4	424.9	414.4	406.7
2889.0	17.5°	2357.3	1772.8	825.8	504.7	452.8	424.9	407.6	392.2	383.6	374.9
3088.9	20°	2473.7	1770.9	714.3	465.3	423.0	395.1	376.9	362.4	353.8	344.2
3300.5	22.5°	2581.3	1761.3	616.3	431.7	392.2	365.3	345.1	330.7	322.1	314.4
3516.8	25°	2705.4	1753.6	534.5	400.9	363.4	336.5	314.4	300.9	291.3	284.6
3734.0	27.5°	2824.6	1742.0	474.9	373.0	335.5	309.6	288.4	273.0	264.4	259.6
3958.0	30°	2941.9	1739.2	452.8	346.1	310.5	284.6	263.4	249.0	242.3	240.3
4204.2	32.5°	3083.2	1746.8	462.4	336.5	287.5	261.5	241.3	230.7	224.0	224.0
4478.2	35°	3234.1	1744.9	476.8	345.1	272.1	238.4	223.0	216.3	209.6	209.6
4782.0	37.5°	3423.5	1747.8	488.4	359.6	266.3	219.2	210.5	201.9	198.0	198.0
5114.6	40°	3706.2	1843.0	482.6	372.1	264.4	205.7	188.4	185.5	182.7	182.7
5490.5	42.5°	4052.3	2049.7	490.3	373.0	263.4	196.1	173.1	178.8	172.1	171.1
5914.5	45°	4431.0	2275.6	539.3	352.8	262.5	191.3	165.4	172.1	161.5	161.5
6405.7	47.5°	4807.0	2499.6	589.3	324.0	259.6	190.4	158.6	154.8	151.9	152.9
7046.0	50°	5325.1	2682.3	608.6	284.6	252.8	188.4	146.1	147.1	145.2	147.1
7948.8	52.5°	5889.5	2720.7	585.5	240.3	233.6	182.7	137.5	141.3	140.4	142.3
8584.3	55°	6241.3	2679.4	483.6	200.0	203.8	159.6	128.8	136.5	136.5	136.5
9205.3	57.5°	6604.8	2503.5	343.2	162.5	169.2	130.7	121.1	131.7	130.7	129.8
9953.3	60°	6866.3	2218.9	225.9	133.6	134.6	107.7	112.5	124.0	123.1	118.3
10724.3	62.5°	7061.4	1904.5	145.2	113.4	102.9	97.1	102.9	112.5	108.6	98.1
11378.1	65°	7039.3	1469.0	111.5	97.1	84.6	84.6	89.4	98.1	86.5	69.2
11503.0	67.5°	6628.8	994.1	92.3	81.7	71.1	70.2	74.0	81.7	74.0	58.6
10862.8	70°	5895.2	649.9	74.0	63.5	56.7	51.9	59.6	70.2	62.5	47.1
9247.6	72.5°	4784.8	396.1	55.8	46.1	41.3	33.6	47.1	57.7	50.0	34.6
6430.7	75°	3095.7	201.9	38.5	29.8	22.1	20.2	34.6	43.3	34.6	21.2
2853.4	77.5°	1184.4	84.6	21.2	13.5	11.5	9.6	19.2	26.0	14.4	4.8
552.8	80°	227.8	35.6	10.6	6.7	5.8	3.8	2.9	1.9	0.0	0.0
98.1	82.5°	39.4	11.5	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
19.2	85°	13.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6.7	87.5°	4.8	0.0	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>
1785.3
1083.5
634.5
516.3
476.8
440.3
405.7
374.0
343.2
313.4
283.6
259.6
239.4
224.0
209.6
198.0
182.7
170.2
161.5
152.9
147.1
142.3
136.5
129.8
118.3
96.1
67.3
56.7
45.2
32.7
18.3
3.8
0.0
0.0
0.0
0.0
0.0

F REPORT)