

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: P946796

Luminaire Tested: **GALN-SB2B-830-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P946796  
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-SB2B-830-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

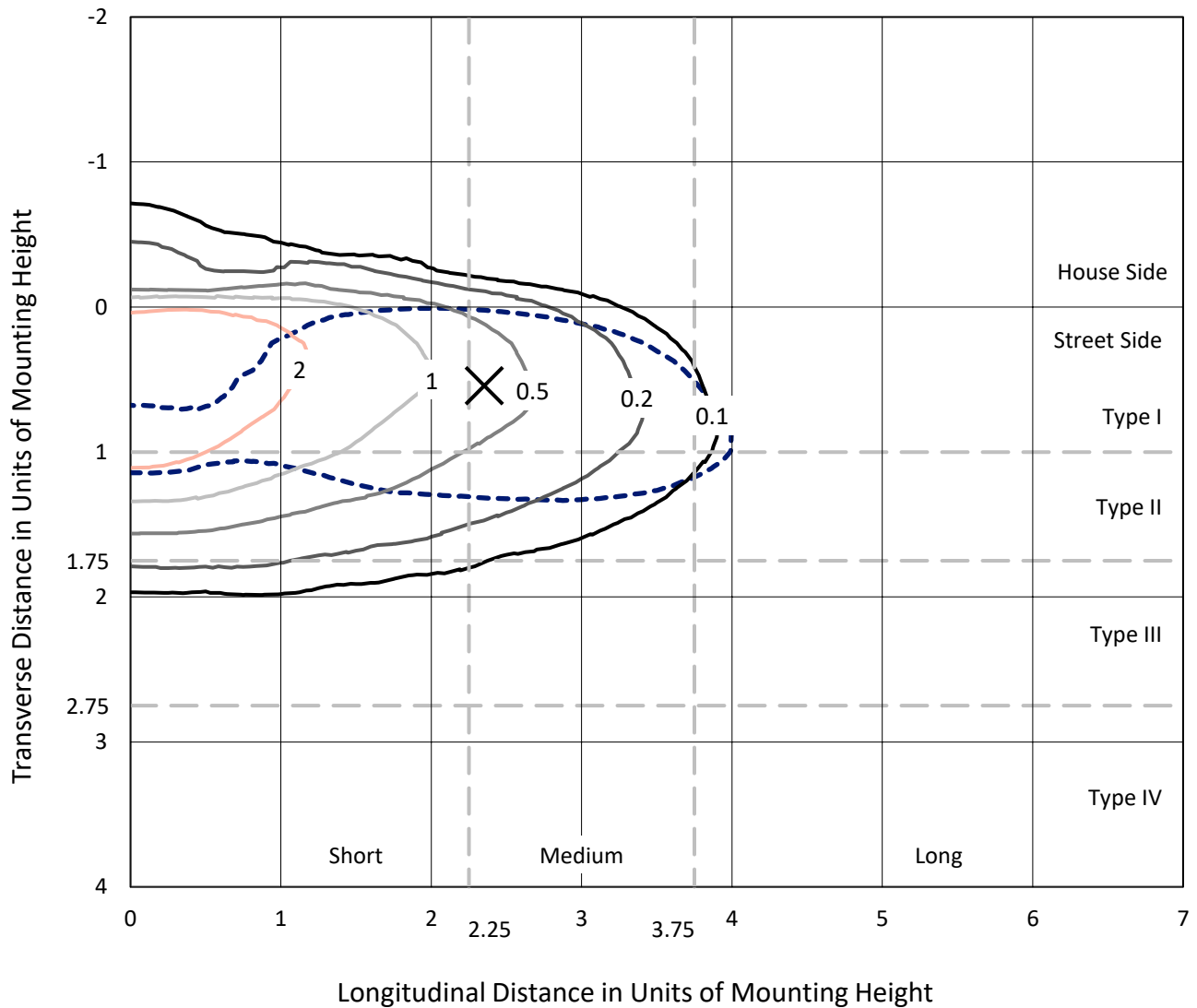
Lumens per Lamp: N/A  
Luminaire Lumens: 8567 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P946796  
 CATALOG NUMBER: GALN-SB2B-830-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

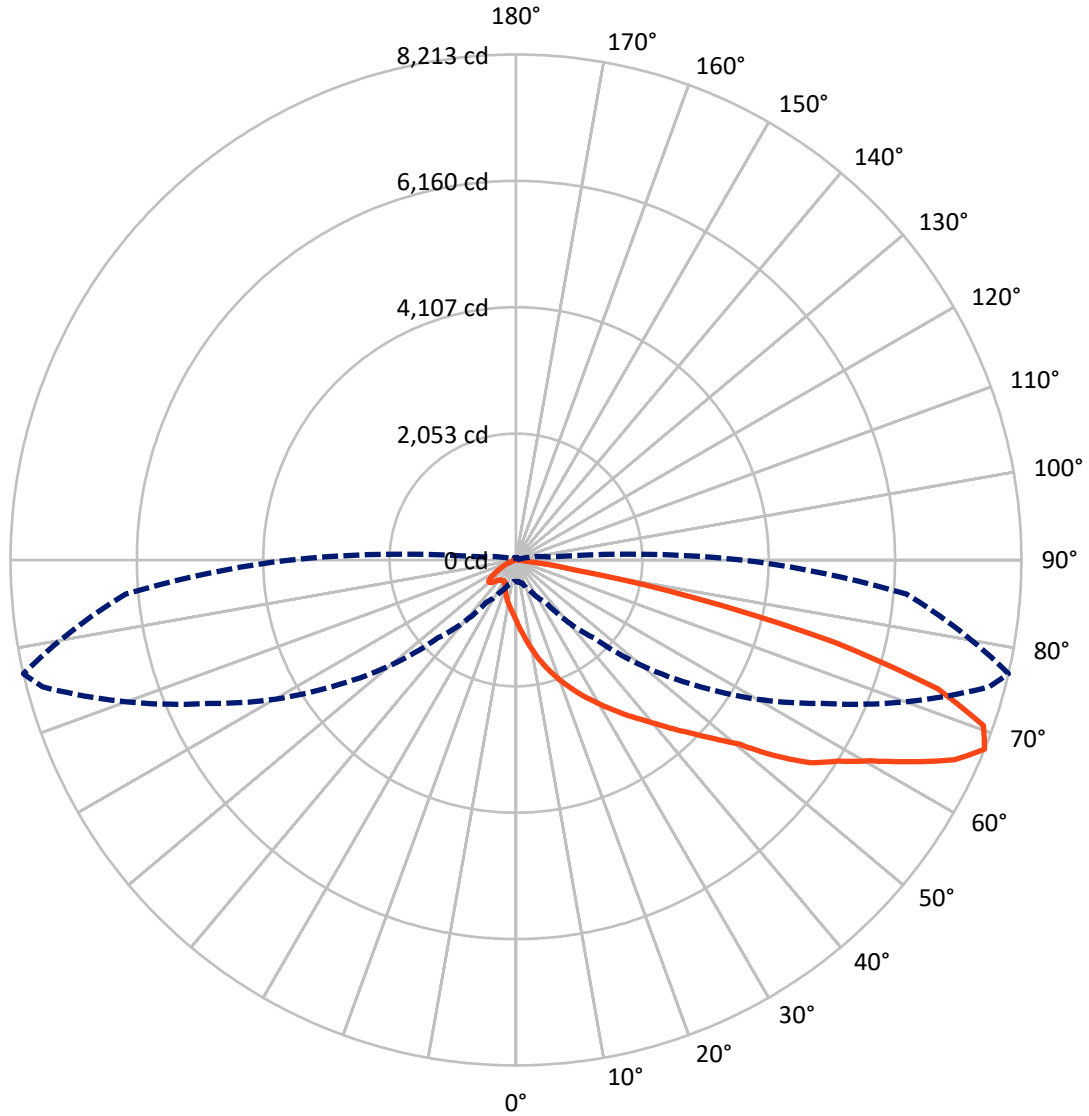
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type II - Medium - N/A

REPORT NUMBER: P946796  
CATALOG NUMBER: GALN-SB2B-830-U-T2R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P946796  
 CATALOG NUMBER: GALN-SB2B-830-U-T2R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	630.3	0.0	630.3
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	7936.7	0.0	7936.7
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	8567.0	0.0	8567.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.8	1.2
10°-20°	353.1	4.1
20°-30°	681.4	8.0
30°-40°	1182.9	13.8
40°-50°	1717.5	20.0
50°-60°	1972.4	23.0
60°-70°	1712.4	20.0
70°-80°	806.6	9.4
80°-90°	39.9	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°	8567.0	100.0
0°-180°	8567.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P946796

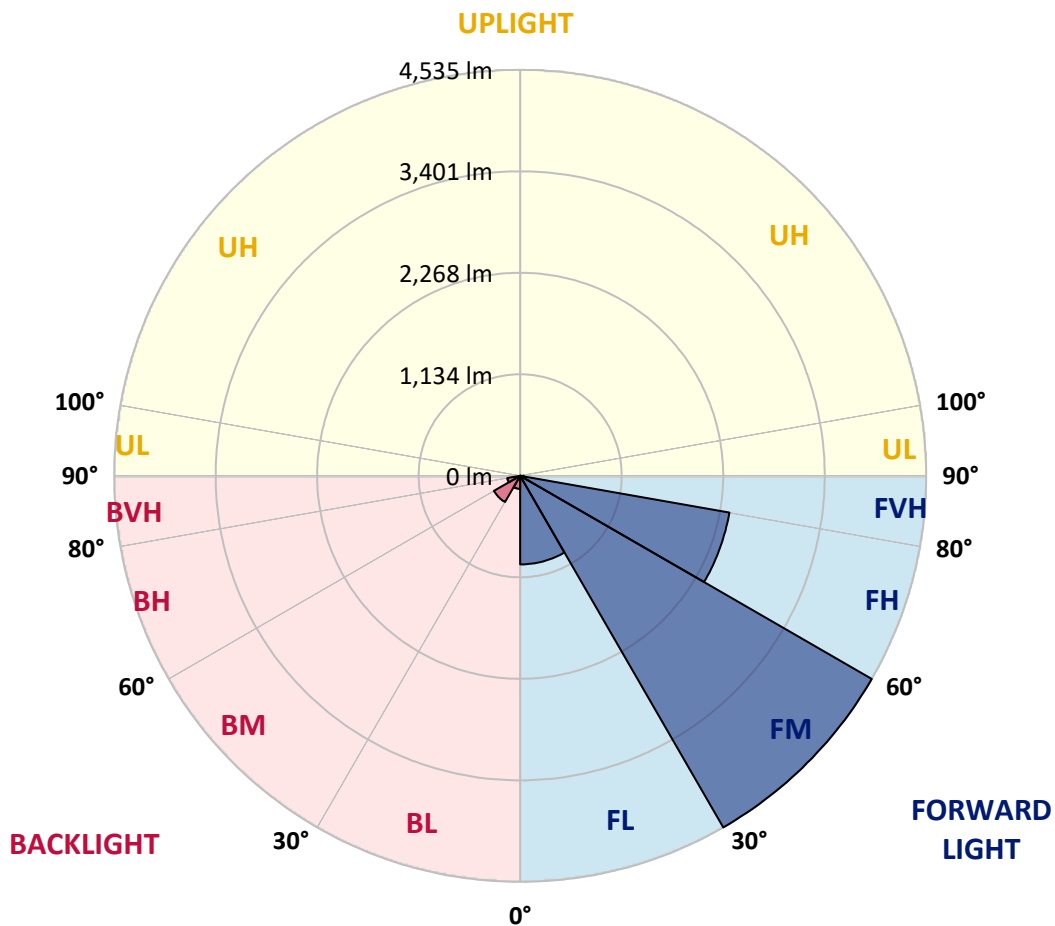
CATALOG NUMBER: GALN-SB2B-830-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	989.4	11.5			
FM (30°-60°)	4535.1	52.9			
FH (60°-80°)	2373.0	27.7			G2/5000
FVH (80°-90°)	39.2	0.5			G1/100
BL (0°-30°)	145.9	1.7	B1/500		
BM (30°-60°)	337.7	3.9	B1/1000		
BH (60°-80°)	145.9	1.7	B1/500		G1/500
BVH (80°-90°)	0.7	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: P946796  
 CATALOG NUMBER: GALN-SB2B-830-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	987.9	987.9	987.9	987.9	987.9	987.9	987.9	987.9	987.9	987.9
2.5°	1367.7	1376.3	1364.0	1340.6	1305.5	1282.6	1226.8	1174.1	1115.6	1097.0
5°	1667.2	1674.7	1660.9	1635.3	1588.5	1543.8	1470.4	1360.3	1245.9	1209.2
7.5°	1889.1	1893.3	1888.0	1864.6	1819.9	1769.4	1687.5	1557.1	1387.4	1347.0
10°	2048.7	2062.5	2060.9	2051.9	2022.1	1981.1	1893.9	1745.5	1546.0	1493.8
12.5°	2154.5	2170.0	2179.0	2199.2	2197.6	2171.6	2095.0	1938.0	1704.0	1642.8
15°	2185.4	2201.9	2236.5	2283.3	2324.8	2338.1	2284.4	2126.9	1877.9	1799.7
17.5°	2167.8	2193.4	2234.9	2308.8	2399.8	2459.9	2454.1	2309.4	2035.9	1946.5
20°	2206.7	2231.2	2263.6	2325.8	2431.7	2540.8	2584.4	2483.9	2192.9	2099.2
22.5°	2421.6	2417.4	2420.5	2430.7	2494.0	2602.0	2691.9	2642.4	2348.2	2252.4
25°	2762.1	2742.9	2710.5	2655.7	2639.7	2691.9	2785.5	2782.8	2512.0	2409.4
27.5°	3152.6	3149.4	3073.3	2941.4	2866.9	2846.7	2891.4	2919.5	2674.3	2564.7
30°	3526.5	3535.1	3432.4	3285.6	3148.8	3069.6	3029.1	3049.4	2839.2	2732.3
32.5°	3852.1	3861.2	3749.4	3577.6	3408.4	3312.7	3227.6	3177.6	3019.0	2902.5
35°	4127.2	4136.2	4008.0	3818.1	3637.7	3551.0	3454.7	3318.0	3199.9	3091.4
37.5°	4372.9	4370.3	4198.4	4006.9	3829.8	3761.2	3710.6	3490.9	3386.1	3281.3
40°	4518.2	4529.3	4382.5	4171.3	3999.5	3949.5	3946.3	3705.3	3601.0	3499.4
42.5°	4560.7	4580.4	4474.0	4300.6	4144.7	4090.5	4174.0	3937.2	3851.1	3752.1
45°	4484.1	4503.3	4454.9	4334.6	4243.7	4208.6	4369.7	4177.7	4118.1	4020.2
47.5°	4260.7	4284.6	4296.3	4270.8	4269.7	4305.4	4545.3	4430.9	4435.2	4335.2
50°	3828.2	3868.6	3976.1	4066.5	4206.4	4382.0	4716.1	4705.4	4792.7	4706.5
52.5°	3041.9	3099.4	3469.6	3717.0	4031.4	4367.6	4903.9	5145.9	5419.9	5293.8
55°	2444.5	2444.5	2745.6	3208.4	3689.9	4272.9	4985.8	5432.1	5847.1	5817.3
57.5°	1992.8	2016.8	2208.8	2617.9	3195.6	4047.4	5036.3	5611.9	6191.3	6169.5
60°	1230.0	1281.6	1644.4	2048.2	2633.3	3645.7	5004.4	5793.9	6608.9	6626.4
62.5°	692.6	711.8	873.5	1473.6	2047.6	3105.7	4760.2	5895.5	7143.0	7217.5
65°	478.3	487.8	550.1	917.1	1419.3	2472.7	4283.0	5832.2	7678.2	7828.7
67.5°	347.4	352.2	391.0	560.2	842.1	1792.8	3535.1	5513.0	7961.7	8213.4
70°	267.1	270.2	298.4	368.1	497.4	1106.5	2567.4	4878.3	7756.4	8057.0
72.5°	217.1	220.2	242.1	272.4	329.8	654.3	1556.1	3961.7	6849.9	7174.4
75°	183.0	187.3	206.9	226.6	258.5	420.3	729.9	2758.9	5151.2	5364.0
77.5°	101.6	93.6	168.1	187.8	218.1	266.0	341.5	1623.6	2885.0	2944.0
80°	63.3	65.4	133.5	151.1	167.6	134.1	156.4	625.1	1000.1	950.1
82.5°	3.7	8.5	102.7	109.1	114.9	57.5	59.1	212.3	241.0	221.3
85°	0.0	0.0	46.8	37.8	39.9	16.5	17.0	49.5	32.5	35.1
87.5°	0.0	0.0	0.0	1.1	0.0	1.6	3.2	4.3	1.6	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P946796  
 CATALOG NUMBER: GALN-SB2B-830-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
987.9	0°	987.9	987.9	987.9	987.9	987.9	987.9	987.9	987.9	987.9	987.9
1038.4	2.5°	1001.2	964.0	888.4	814.5	754.4	698.5	658.6	620.8	601.7	600.6
1105.5	5°	1031.5	953.3	802.2	668.7	561.2	475.1	419.2	379.3	359.1	352.2
1187.9	7.5°	1074.1	956.5	726.7	541.0	414.4	340.5	308.6	295.8	291.5	286.7
1281.0	10°	1127.8	964.0	659.1	435.7	326.6	289.4	276.6	271.3	268.1	264.9
1385.8	12.5°	1187.9	970.9	592.1	361.8	287.3	268.1	259.1	252.7	248.4	244.7
1493.3	15°	1246.4	975.1	522.4	310.1	267.1	251.6	242.1	235.1	229.3	225.0
1598.6	17.5°	1304.4	981.0	457.0	279.3	250.6	235.1	225.6	217.1	212.3	207.5
1709.3	20°	1368.8	979.9	395.3	257.5	234.1	218.6	208.5	200.6	195.8	190.5
1826.3	22.5°	1428.4	974.6	341.0	238.9	217.1	202.2	191.0	183.0	178.2	174.0
1946.0	25°	1497.0	970.3	295.8	221.8	201.1	186.2	174.0	166.5	161.2	157.5
2066.2	27.5°	1563.0	964.0	262.8	206.4	185.7	171.3	159.6	151.1	146.3	143.6
2190.2	30°	1627.9	962.4	250.6	191.5	171.8	157.5	145.8	137.8	134.1	133.0
2326.4	32.5°	1706.1	966.6	255.9	186.2	159.1	144.7	133.5	127.7	124.0	124.0
2478.0	35°	1789.6	965.6	263.9	191.0	150.6	131.9	123.4	119.7	116.0	116.0
2646.1	37.5°	1894.4	967.2	270.2	199.0	147.4	121.3	116.5	111.7	109.6	109.6
2830.2	40°	2050.8	1019.8	267.1	205.9	146.3	113.8	104.3	102.7	101.1	101.1
3038.2	42.5°	2242.3	1134.2	271.3	206.4	145.8	108.5	95.8	98.9	95.2	94.7
3272.8	45°	2451.9	1259.2	298.4	195.2	145.2	105.9	91.5	95.2	89.4	89.4
3544.6	47.5°	2659.9	1383.2	326.1	179.3	143.6	105.3	87.8	85.7	84.1	84.6
3898.9	50°	2946.7	1484.2	336.7	157.5	139.9	104.3	80.9	81.4	80.3	81.4
4398.5	52.5°	3259.0	1505.5	324.0	133.0	129.3	101.1	76.1	78.2	77.7	78.7
4750.1	55°	3453.7	1482.6	267.6	110.7	112.8	88.3	71.3	75.5	75.5	75.5
5093.8	57.5°	3654.8	1385.3	189.9	89.9	93.6	72.4	67.0	72.9	72.4	71.8
5507.7	60°	3799.5	1227.8	125.0	73.9	74.5	59.6	62.2	68.6	68.1	65.4
5934.3	62.5°	3907.4	1053.9	80.3	62.8	56.9	53.7	56.9	62.2	60.1	54.3
6296.1	65°	3895.2	812.9	61.7	53.7	46.8	46.8	49.5	54.3	47.9	38.3
6365.2	67.5°	3668.1	550.1	51.1	45.2	39.4	38.8	41.0	45.2	41.0	32.5
6010.9	70°	3262.1	359.6	41.0	35.1	31.4	28.7	33.0	38.8	34.6	26.1
5117.2	72.5°	2647.7	219.2	30.9	25.5	22.9	18.6	26.1	31.9	27.7	19.2
3558.5	75°	1713.0	111.7	21.3	16.5	12.2	11.2	19.2	23.9	19.2	11.7
1578.9	77.5°	655.4	46.8	11.7	7.4	6.4	5.3	10.6	14.4	8.0	2.7
305.9	80°	126.1	19.7	5.9	3.7	3.2	2.1	1.6	1.1	0.0	0.0
54.3	82.5°	21.8	6.4	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
10.6	85°	7.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.7	87.5°	2.7	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>
987.9
599.6
351.1
285.7
263.9
243.7
224.5
206.9
189.9
173.4
156.9
143.6
132.5
124.0
116.0
109.6
101.1
94.2
89.4
84.6
81.4
78.7
75.5
71.8
65.4
53.2
37.2
31.4
25.0
18.1
10.1
2.1
0.0
0.0
0.0
0.0
0.0

F REPORT)