

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: P953226

Luminaire Tested: **GALN-SB6D-830-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953226  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB6D-830-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

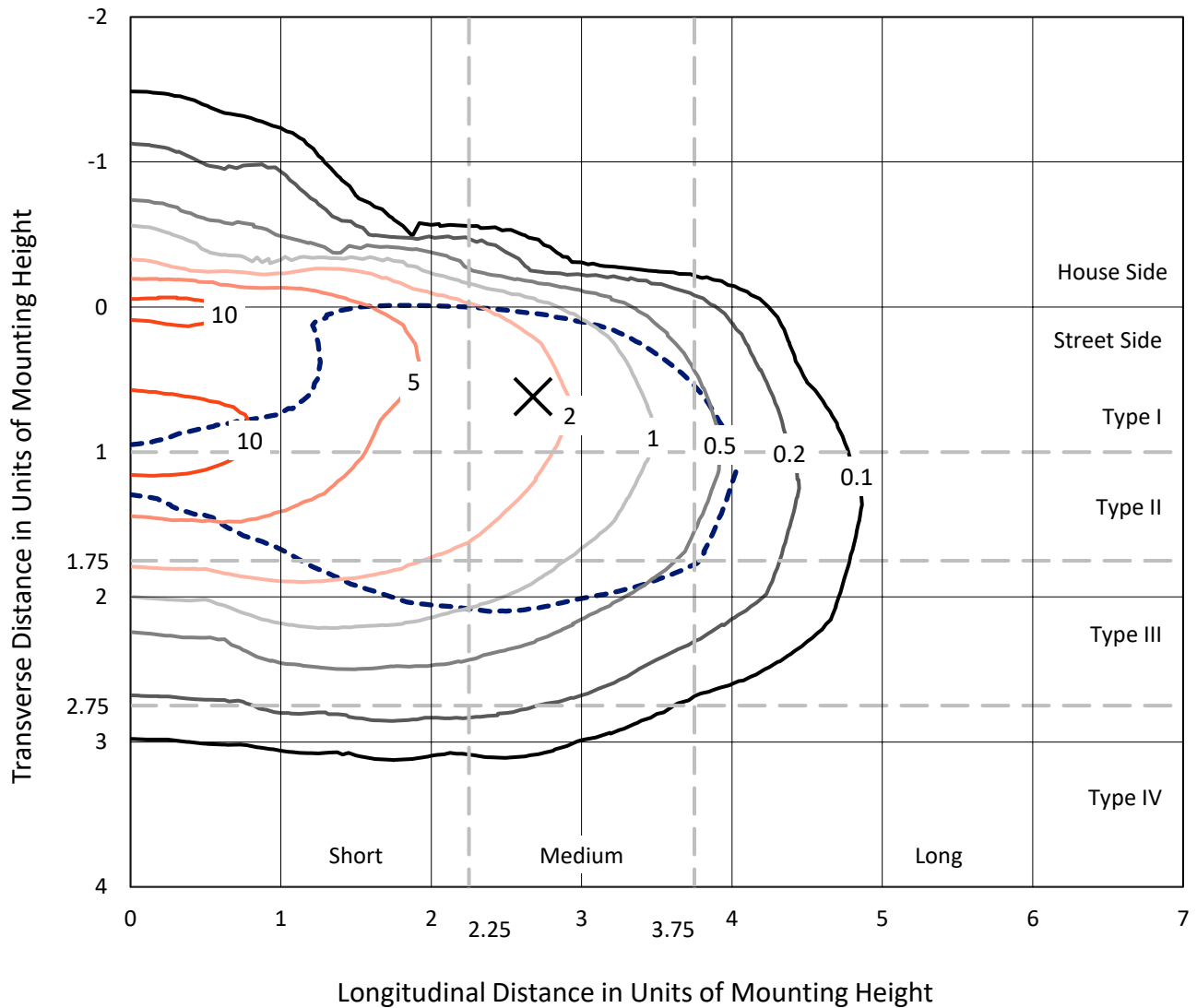
Lumens per Lamp: N/A  
Luminaire Lumens: 46162 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): NR  
Input Current (Ain): 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: P953226  
 CATALOG NUMBER: GALN-SB6D-830-U-T3R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

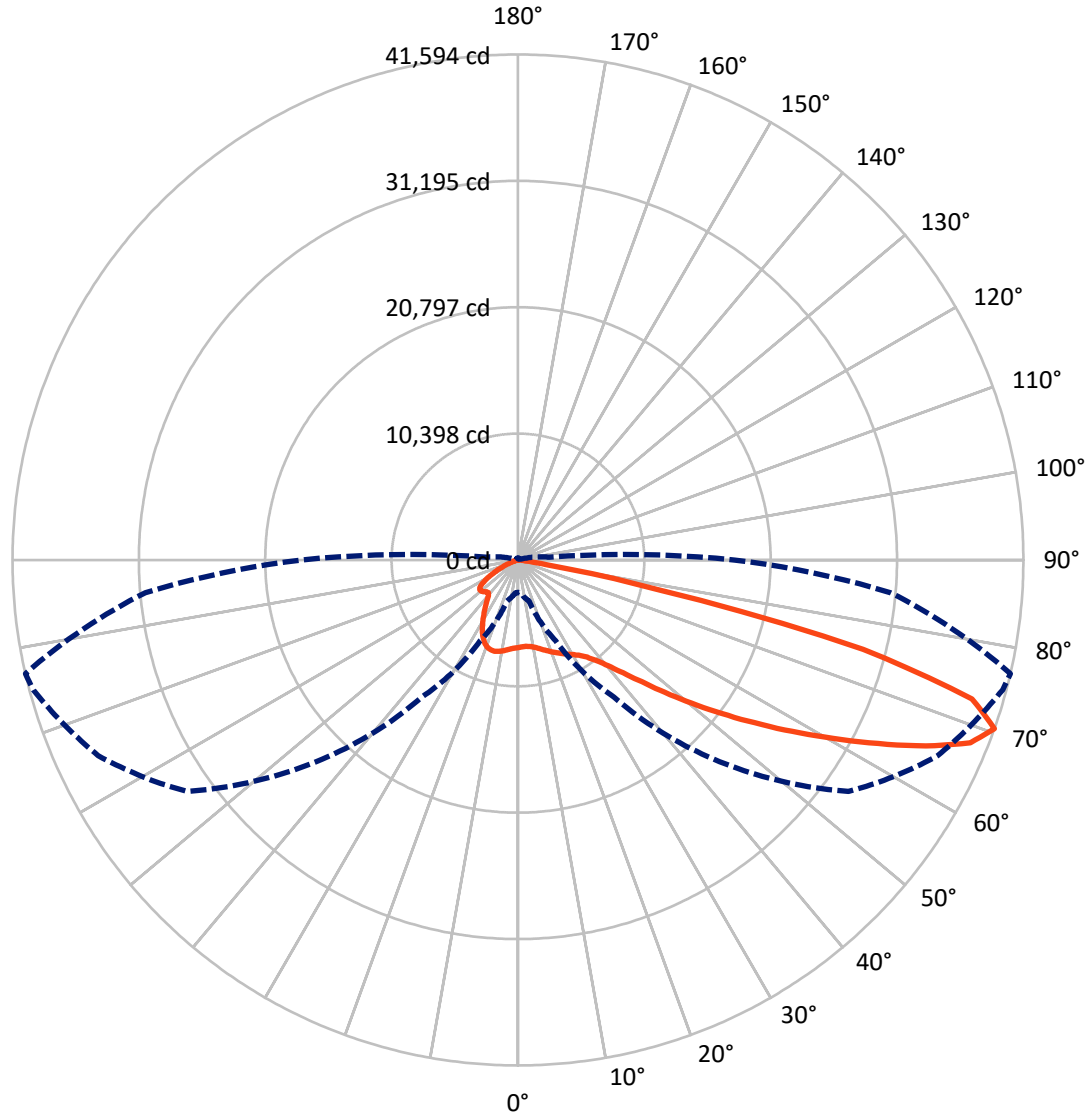
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc  
 Type III - Medium - N/A

REPORT NUMBER: P953226  
CATALOG NUMBER: GALN-SB6D-830-U-T3R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P953226  
 CATALOG NUMBER: GALN-SB6D-830-U-T3R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4866.1	0.0	4866.1
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	41295.9	0.0	41295.9
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	46162.0	0.0	46162.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	620.6	1.3
10°-20°	1473.1	3.2
20°-30°	2278.5	4.9
30°-40°	4134.6	9.0
40°-50°	7804.5	16.9
50°-60°	11276.8	24.4
60°-70°	12003.9	26.0
70°-80°	6361.2	13.8
80°-90°	208.9	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°	46162.0	100.0
0°-180°	46162.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P953226

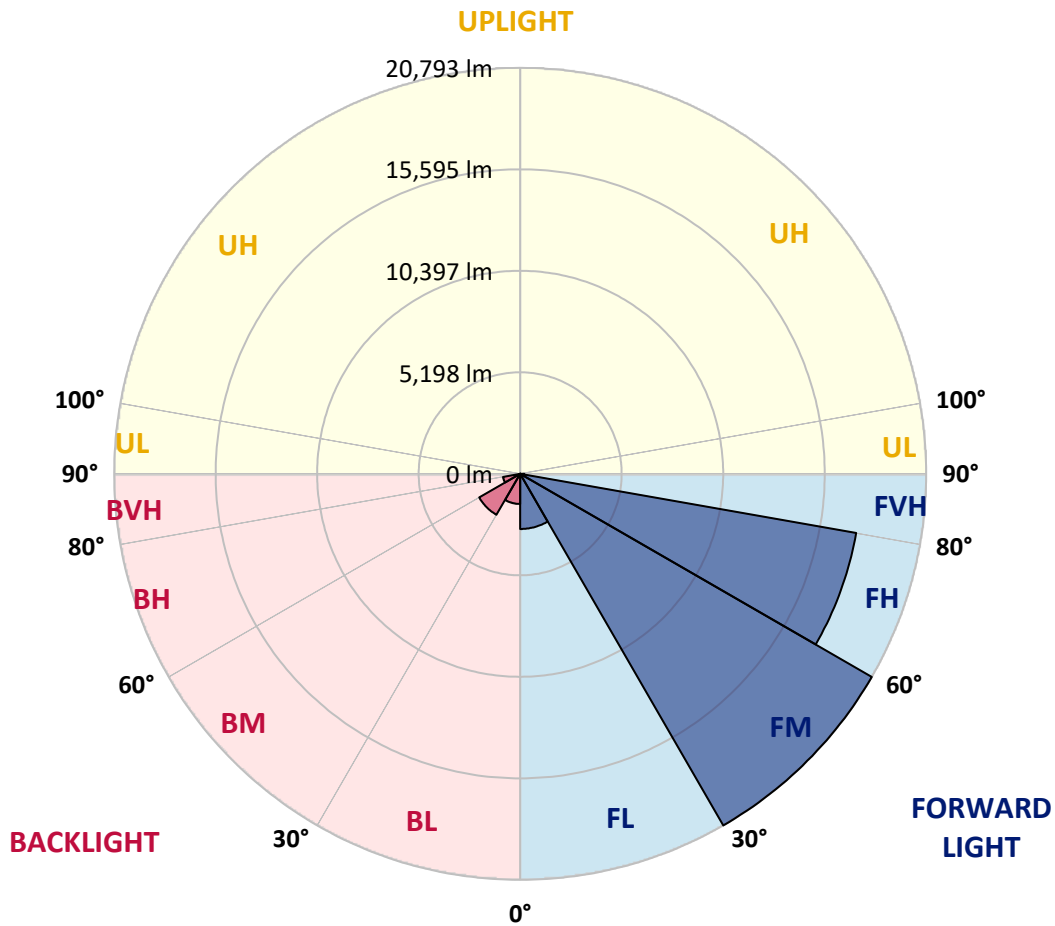
CATALOG NUMBER: GALN-SB6D-830-U-T3R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2826.2	6.1			
FM (30°-60°)	20793.4	45.0			
FH (60°-80°)	17473.0	37.9			G5
FVH (80°-90°)	203.3	0.4			G2/225
BL (0°-30°)	1546.1	3.3	B3/2500		
BM (30°-60°)	2422.4	5.2	B2/2500		
BH (60°-80°)	892.1	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.6	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 Medium



REPORT NUMBER: P953226  
 CATALOG NUMBER: GALN-SB6D-830-U-T3R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4
2.5°	6760.2	6821.5	6812.7	6853.5	6868.1	6926.4	6984.7	7063.4	7150.9	7148.0
5°	6378.4	6439.6	6454.2	6509.5	6579.5	6669.9	6789.4	6946.8	7110.1	7136.3
7.5°	5926.5	5990.6	6028.5	6139.3	6267.6	6454.2	6649.5	6879.8	7150.9	7188.8
10°	5474.7	5533.0	5582.5	5739.9	5944.0	6220.9	6538.7	6871.0	7235.4	7290.8
12.5°	5194.8	5250.2	5305.6	5442.6	5696.2	6034.4	6465.8	6911.8	7375.3	7454.1
15°	5095.7	5145.3	5189.0	5311.4	5547.5	5932.3	6451.2	6996.4	7553.2	7658.1
17.5°	5110.3	5136.5	5165.7	5258.9	5489.2	5885.7	6477.5	7142.1	7763.1	7856.3
20°	5194.8	5209.4	5212.3	5276.4	5480.5	5879.9	6530.0	7282.1	7961.3	8086.6
22.5°	5302.7	5308.5	5302.7	5346.4	5535.9	5923.6	6599.9	7451.1	8182.8	8299.5
25°	5807.0	5696.2	5556.3	5471.8	5629.2	6008.1	6704.9	7678.5	8424.8	8538.5
27.5°	7372.4	7054.7	6553.3	5990.6	5821.6	6130.6	6850.6	7908.8	8669.7	8771.7
30°	9914.4	9497.6	8646.4	7378.3	6439.6	6387.1	7040.1	8139.1	8929.1	9039.9
32.5°	12462.3	12360.3	11377.9	9622.9	7830.1	6958.5	7354.9	8451.0	9273.1	9360.6
35°	15039.3	14832.3	14027.7	12293.2	9972.8	8121.6	7879.7	8859.2	9725.0	9824.1
37.5°	17012.9	16887.5	16389.0	14960.6	12514.8	9917.4	8777.5	9491.8	10380.9	10491.7
40°	18756.1	18697.8	18528.7	17587.1	15357.0	12267.0	10173.9	10471.2	11290.4	11421.6
42.5°	20126.2	20263.3	20359.5	20097.1	18286.8	14948.9	12051.3	11847.2	12558.5	12692.6
45°	21528.4	21575.1	21962.8	22341.8	21196.1	17753.3	14167.7	13459.3	14135.6	14301.8
47.5°	22429.2	22615.8	23297.9	23965.5	23641.9	20534.4	16441.5	15362.9	15963.4	16275.3
50°	22496.3	22849.0	23787.7	24950.8	25423.1	23181.3	18913.5	17531.8	18170.2	18514.2
52.5°	21379.8	21927.8	23382.5	25084.9	26385.1	25423.1	21470.1	19700.6	20519.8	20968.7
55°	16391.9	17109.1	21857.8	24356.1	26423.0	27122.6	23959.7	21959.9	23137.6	23644.8
57.5°	14281.4	14642.8	17184.9	23091.0	25720.4	27807.7	26210.2	24111.3	25985.7	26615.4
60°	11882.2	12357.4	14412.5	21021.2	24767.2	27874.7	28198.3	26886.5	29072.9	29781.2
62.5°	8075.0	8591.0	10634.5	17464.7	23464.1	27842.7	29827.9	29743.3	32504.0	33264.9
65°	5002.4	5326.0	6672.8	14260.9	21642.1	27877.6	31533.3	33212.4	36124.6	36897.1
67.5°	3953.0	4101.6	4804.2	10949.3	18502.5	27090.6	33235.7	36474.4	39532.4	40144.6
70°	2655.7	2746.1	3495.3	7340.4	13765.4	23458.3	33203.6	38112.8	41287.4	41593.5
72.5°	1399.3	1469.2	2043.5	3399.1	8314.0	16674.7	27988.4	36153.8	39541.2	39080.6
75°	699.6	816.2	1376.0	1725.8	3550.7	9299.4	17380.2	28504.4	31122.2	29338.1
77.5°	530.6	641.3	1136.9	1136.9	1236.0	3130.9	7360.8	15546.5	14339.7	11940.5
80°	338.2	437.3	994.1	860.0	516.0	795.8	1918.2	4355.2	3046.3	2317.5
82.5°	198.2	285.7	827.9	568.5	288.6	294.4	542.2	927.0	790.0	615.1
85°	78.7	186.6	568.5	224.5	113.7	72.9	163.2	198.2	163.2	122.4
87.5°	0.0	43.7	99.1	0.0	8.7	5.8	11.7	14.6	14.6	11.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P953226  
 CATALOG NUMBER: GALN-SB6D-830-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7200.4	0°	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4	7200.4
7206.3	2.5°	7232.5	7238.3	7255.8	7258.7	7217.9	7165.5	7145.1	7136.3	7101.3	7098.4
7252.9	5°	7320.0	7346.2	7320.0	7244.2	7063.4	6809.8	6617.4	6460.0	6317.1	6273.4
7413.2	7.5°	7494.9	7521.1	7442.4	7145.1	6690.3	6186.0	5731.2	5410.5	5121.9	5014.1
7608.6	10°	7745.6	7780.6	7532.8	6932.2	6127.7	5317.2	4547.6	4005.4	3582.7	3410.7
7873.8	12.5°	8060.4	8075.0	7582.3	6608.7	5396.0	4238.6	3148.4	2568.3	2192.2	2052.3
8194.5	15°	8407.3	8386.9	7588.2	6168.5	4399.0	2996.8	2055.2	1687.9	1536.3	1489.6
8515.2	17.5°	8771.7	8687.2	7471.5	5533.0	3305.8	2049.4	1524.6	1437.2	1410.9	1399.3
8832.9	20°	9130.3	8940.8	7258.7	4702.1	2372.9	1530.5	1384.7	1358.5	1343.9	1338.1
9153.6	22.5°	9456.8	9133.2	6894.3	3737.2	1722.9	1352.6	1308.9	1285.6	1259.3	1247.7
9465.5	25°	9774.5	9244.0	6381.3	2836.4	1378.9	1265.2	1230.2	1186.5	1151.5	1136.9
9800.8	27.5°	10083.5	9313.9	5739.9	2098.9	1230.2	1183.6	1119.4	1058.2	1032.0	1026.1
10159.3	30°	10412.9	9337.2	5011.2	1565.4	1139.8	1081.5	988.2	918.3	903.7	906.6
10643.2	32.5°	10815.2	9372.2	4276.5	1282.7	1064.0	959.1	848.3	775.4	763.8	775.4
11348.7	35°	11296.2	9442.2	3568.2	1180.6	997.0	833.7	714.2	653.0	641.3	650.1
12252.4	37.5°	11949.2	9555.9	2906.4	1160.2	941.6	728.8	600.5	551.0	551.0	553.9
13360.2	40°	12817.9	9859.1	2314.6	1145.7	912.4	650.1	507.2	486.8	495.6	501.4
14771.1	42.5°	13876.1	10503.3	1915.3	1128.2	880.4	615.1	460.6	451.8	466.4	472.3
16461.9	45°	15062.6	11319.6	1775.3	1099.0	851.2	638.4	440.2	428.5	446.0	448.9
18356.7	47.5°	16289.9	12118.3	1757.8	1066.9	822.1	673.4	434.4	408.1	428.5	431.4
20379.9	50°	17531.8	12640.1	1775.3	1017.4	775.4	673.4	437.3	387.7	405.2	414.0
22478.8	52.5°	18782.4	12879.2	1763.7	909.5	693.8	632.6	437.3	370.2	387.7	393.5
24746.8	55°	19995.1	12832.5	1585.8	749.2	588.9	559.7	425.6	355.6	367.3	370.2
26889.4	57.5°	20954.1	12182.4	1256.4	583.0	478.1	466.4	387.7	338.2	346.9	344.0
28854.2	60°	21455.6	10754.0	897.9	448.9	376.1	367.3	341.1	314.8	320.7	306.1
30518.8	62.5°	21461.4	8865.0	600.5	355.6	300.3	291.5	291.5	282.8	276.9	247.8
31807.3	65°	21003.7	6769.0	399.4	282.8	242.0	227.4	244.9	242.0	221.6	180.7
32200.8	67.5°	19965.9	4436.9	303.2	221.6	186.6	177.8	195.3	204.1	189.5	151.6
30766.6	70°	17832.0	2582.8	250.7	172.0	139.9	131.2	157.4	174.9	157.4	122.4
26297.6	72.5°	14811.9	1393.4	204.1	128.3	96.2	87.5	125.4	142.8	125.4	90.4
16872.9	75°	9611.3	746.3	157.4	84.5	49.6	55.4	93.3	104.9	87.5	58.3
4952.9	77.5°	3227.1	329.4	99.1	40.8	23.3	23.3	55.4	64.1	40.8	20.4
900.8	80°	720.0	137.0	40.8	17.5	8.7	8.7	11.7	11.7	5.8	0.0
276.9	82.5°	236.1	55.4	17.5	5.8	0.0	0.0	0.0	0.0	0.0	0.0
70.0	85°	90.4	20.4	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23.3	87.5°	35.0	2.9	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>
7200.4
7104.2
6247.2
4970.3
3337.9
2008.5
1489.6
1396.4
1332.2
1244.8
1131.1
1020.3
906.6
772.5
647.2
551.0
501.4
472.3
451.8
434.4
416.9
393.5
370.2
344.0
303.2
239.0
174.9
148.7
116.6
87.5
52.5
17.5
0.0
0.0
0.0
0.0
0.0

F REPORT)