

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: P956082

Luminaire Tested: **GALN-SB8D-830-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956082  
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-SB8D-830-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

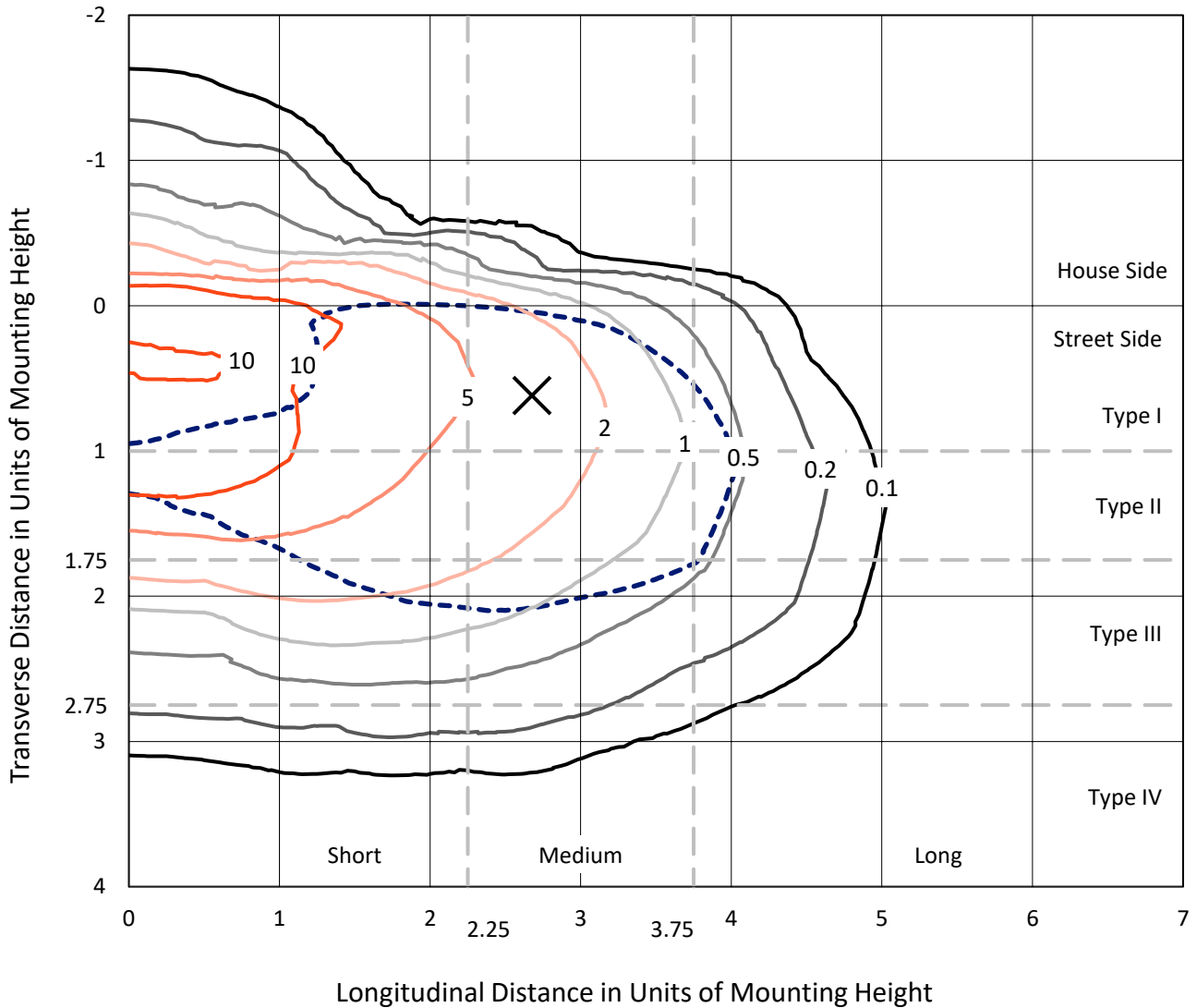
Lumens per Lamp: N/A  
Luminaire Lumens: 61556 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): 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: P956082  
 CATALOG NUMBER: GALN-SB8D-830-U-T3R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

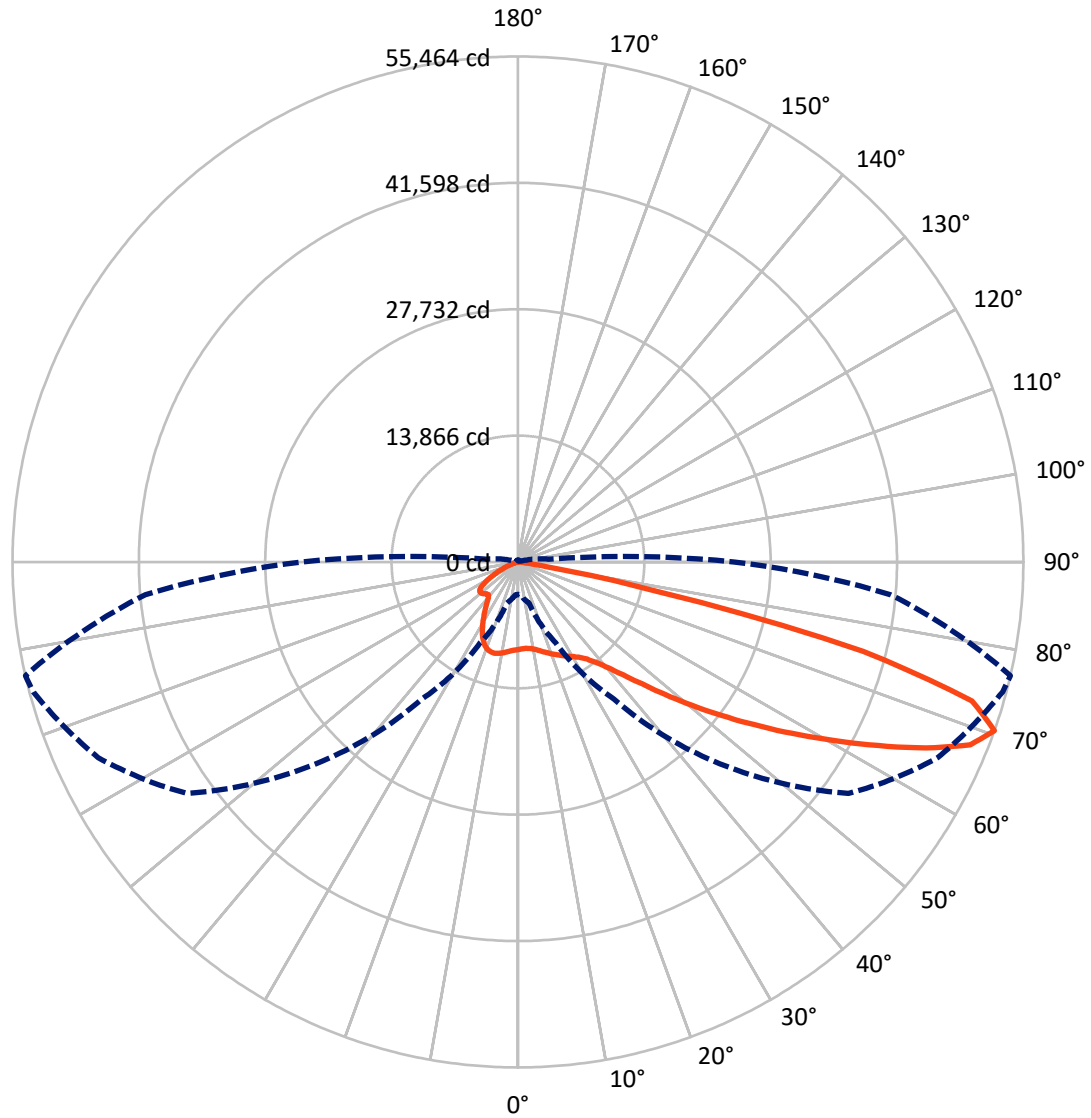
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 fc  
 Type III - Medium - N/A

REPORT NUMBER: P956082  
CATALOG NUMBER: GALN-SB8D-830-U-T3R-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P956082  
 CATALOG NUMBER: GALN-SB8D-830-U-T3R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6488.9	0.0	6488.9
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	55067.1	0.0	55067.1
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	61556.0	0.0	61556.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	827.5	1.3
10°-20°	1964.4	3.2
20°-30°	3038.4	4.9
30°-40°	5513.3	9.0
40°-50°	10407.1	16.9
50°-60°	15037.4	24.4
60°-70°	16006.9	26.0
70°-80°	8482.5	13.8
80°-90°	278.5	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°	61556.0	100.0
0°-180°	61556.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P956082

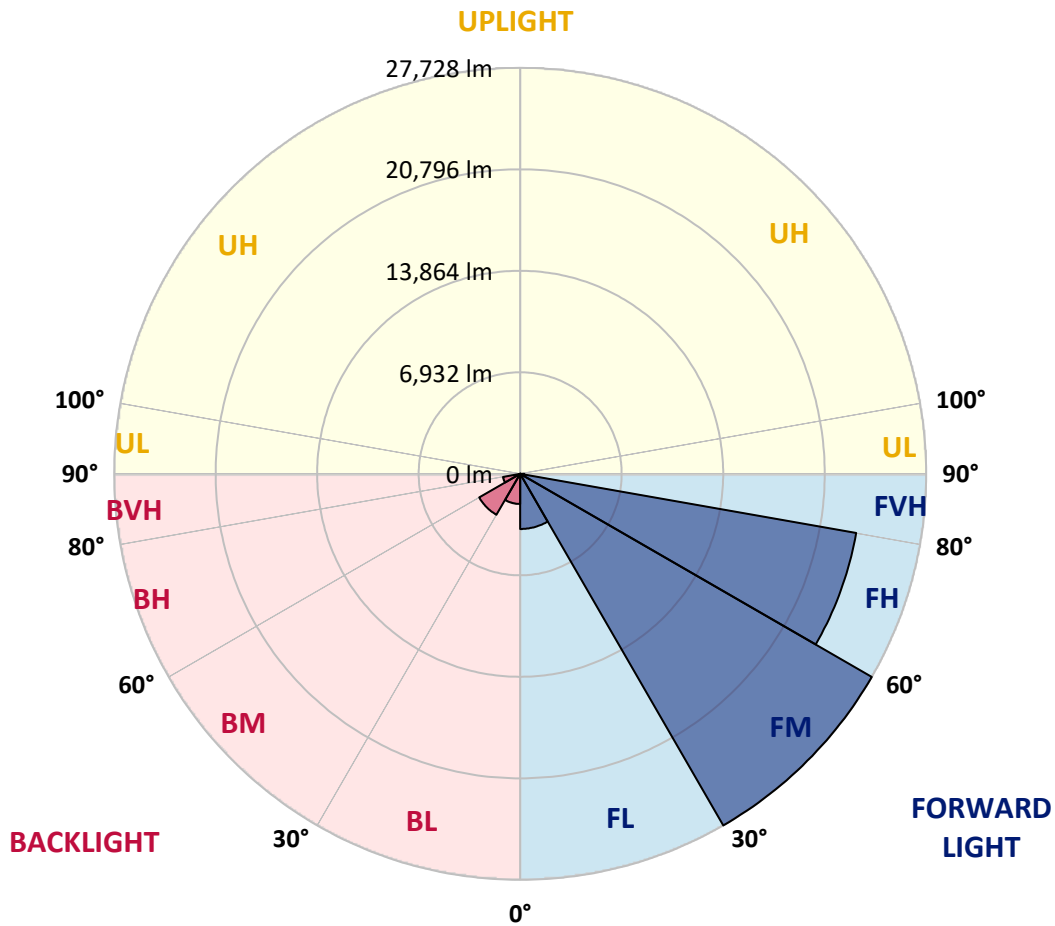
CATALOG NUMBER: GALN-SB8D-830-U-T3R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3768.7	6.1			
FM (30°-60°)	27727.6	45.0			
FH (60°-80°)	23299.8	37.9			G5
FVH (80°-90°)	271.0	0.4			G3/500
BL (0°-30°)	2061.6	3.3	B3/2500		
BM (30°-60°)	3230.2	5.2	B3/5000		
BH (60°-80°)	1189.6	1.9	B3/2500		G3/2500
BVH (80°-90°)	7.5	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: P956082  
 CATALOG NUMBER: GALN-SB8D-830-U-T3R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	9601.6	9601.6	9601.6	9601.6	9601.6	9601.6	9601.6	9601.6	9601.6	9601.6
2.5°	9014.6	9096.3	9084.6	9139.0	9158.5	9236.2	9314.0	9418.9	9535.5	9531.7
5°	8505.4	8587.0	8606.5	8680.3	8773.6	8894.1	9053.5	9263.4	9481.1	9516.1
7.5°	7902.9	7988.4	8038.9	8186.6	8357.7	8606.5	8866.9	9174.0	9535.5	9586.1
10°	7300.3	7378.1	7444.2	7654.1	7926.2	8295.5	8719.2	9162.4	9648.3	9722.1
12.5°	6927.2	7001.0	7074.9	7257.6	7595.8	8046.7	8622.0	9216.8	9834.9	9939.8
15°	6795.0	6861.1	6919.4	7082.7	7397.5	7910.6	8602.6	9329.5	10072.0	10211.9
17.5°	6814.4	6849.4	6888.3	7012.7	7319.8	7848.5	8637.6	9523.9	10351.9	10476.3
20°	6927.2	6946.6	6950.5	7036.0	7308.1	7840.7	8707.5	9710.5	10616.2	10783.4
22.5°	7071.0	7078.8	7071.0	7129.3	7382.0	7899.0	8800.8	9935.9	10911.6	11067.1
25°	7743.5	7595.8	7409.2	7296.5	7506.4	8011.7	8940.8	10239.1	11234.3	11385.9
27.5°	9831.0	9407.3	8738.6	7988.4	7762.9	8175.0	9135.1	10546.2	11560.8	11696.9
30°	13220.7	12664.8	11529.7	9838.7	8587.0	8517.1	9387.8	10853.3	11906.8	12054.5
32.5°	16618.2	16482.1	15172.1	12832.0	10441.3	9279.0	9807.7	11269.3	12365.5	12482.1
35°	20054.6	19778.6	18705.7	16392.7	13298.4	10830.0	10507.4	11813.5	12968.0	13100.2
37.5°	22686.3	22519.1	21854.4	19949.6	16688.2	13224.6	11704.7	12657.0	13842.7	13990.4
40°	25010.9	24933.1	24707.7	23452.1	20478.3	16357.7	13566.7	13963.2	15055.5	15230.4
42.5°	26837.9	27020.6	27148.9	26799.0	24385.0	19934.1	16070.1	15798.0	16746.5	16925.3
45°	28707.7	28769.9	29286.9	29792.2	28264.5	23673.6	18892.3	17947.7	18849.5	19071.1
47.5°	29908.9	30157.7	31067.3	31957.5	31526.0	27382.1	21924.4	20486.1	21286.8	21702.8
50°	29998.3	30468.6	31720.3	33271.4	33901.1	30911.8	25220.8	23378.2	24229.5	24688.2
52.5°	28509.4	29240.3	31180.0	33450.2	35183.9	33901.1	28629.9	26270.4	27362.7	27961.3
55°	21858.3	22814.5	29147.0	32478.4	35234.5	36167.4	31949.7	29283.0	30853.5	31529.9
57.5°	19043.9	19525.9	22915.6	30791.3	34297.6	37080.9	34950.7	32151.8	34651.4	35491.0
60°	15844.6	16478.3	19218.8	28031.3	33026.5	37170.3	37601.8	35852.5	38768.0	39712.6
62.5°	10767.8	11455.9	14180.9	23288.8	31288.9	37127.6	39774.8	39662.1	43343.4	44357.9
65°	6670.6	7102.1	8898.0	19016.7	28859.3	37174.2	42048.9	44288.0	48171.4	49201.5
67.5°	5271.2	5469.4	6406.3	14600.7	24672.7	36124.7	44319.1	48637.9	52715.6	53532.0
70°	3541.3	3661.8	4660.9	9788.2	18355.8	31281.1	44276.3	50822.5	55055.8	55464.0
72.5°	1865.9	1959.2	2725.0	4532.6	11086.6	22235.3	37321.9	48210.3	52727.3	52113.1
75°	933.0	1088.4	1834.8	2301.3	4734.7	12400.5	23176.1	38010.0	41500.8	39121.8
77.5°	707.5	855.2	1516.0	1516.0	1648.2	4175.0	9815.4	20731.0	19121.6	15922.4
80°	450.9	583.1	1325.6	1146.8	688.1	1061.2	2557.8	5807.6	4062.2	3090.4
82.5°	264.3	381.0	1104.0	758.0	384.8	392.6	723.0	1236.2	1053.5	820.2
85°	105.0	248.8	758.0	299.3	151.6	97.2	217.7	264.3	217.7	163.3
87.5°	0.0	58.3	132.2	0.0	11.7	7.8	15.5	19.4	19.4	15.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956082  
 CATALOG NUMBER: GALN-SB8D-830-U-T3R-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
9601.6	0°	9601.6	9601.6	9601.6	9601.6	9601.6	9601.6	9601.6	9601.6	9601.6	9601.6
9609.4	2.5°	9644.4	9652.2	9675.5	9679.4	9624.9	9555.0	9527.8	9516.1	9469.5	9465.6
9671.6	5°	9761.0	9796.0	9761.0	9659.9	9418.9	9080.7	8824.2	8614.3	8423.8	8365.5
9885.4	7.5°	9994.2	10029.2	9924.3	9527.8	8921.3	8248.8	7642.4	7214.8	6830.0	6686.2
10145.8	10°	10328.5	10375.2	10044.8	9244.0	8171.1	7090.4	6064.2	5341.1	4777.5	4548.1
10499.6	12.5°	10748.4	10767.8	10110.9	8812.5	7195.4	5652.1	4198.3	3424.7	2923.2	2736.7
10927.2	15°	11211.0	11183.8	10118.6	8225.5	5865.9	3996.1	2740.5	2250.7	2048.6	1986.4
11354.8	17.5°	11696.9	11584.1	9963.1	7378.1	4408.2	2732.8	2033.1	1916.4	1881.5	1865.9
11778.5	20°	12175.0	11922.3	9679.4	6270.2	3164.3	2040.8	1846.5	1811.5	1792.0	1784.3
12206.1	22.5°	12610.4	12178.9	9193.5	4983.5	2297.4	1803.7	1745.4	1714.3	1679.3	1663.8
12622.1	25°	13034.1	12326.6	8509.3	3782.3	1838.7	1687.1	1640.4	1582.1	1535.5	1516.0
13069.1	27.5°	13446.2	12419.9	7654.1	2798.9	1640.4	1578.2	1492.7	1411.1	1376.1	1368.3
13547.2	30°	13885.4	12451.0	6682.3	2087.5	1519.9	1442.2	1317.8	1224.5	1205.1	1208.9
14192.5	32.5°	14421.9	12497.7	5702.7	1710.4	1418.9	1278.9	1131.2	1034.0	1018.5	1034.0
15133.2	35°	15063.3	12591.0	4758.1	1574.4	1329.5	1111.8	952.4	870.8	855.2	866.9
16338.3	37.5°	15934.0	12742.6	3875.6	1547.1	1255.6	971.8	800.8	734.7	734.7	738.6
17815.5	40°	17092.4	13146.8	3086.5	1527.7	1216.7	866.9	676.4	649.2	660.8	668.6
19696.9	42.5°	18503.5	14005.9	2554.0	1504.4	1174.0	820.2	614.2	602.5	622.0	629.7
21951.6	45°	20085.7	15094.4	2367.4	1465.5	1135.1	851.3	587.0	571.4	594.8	598.6
24478.3	47.5°	21722.2	16159.5	2344.0	1422.8	1096.2	898.0	579.2	544.2	571.4	575.3
27176.1	50°	23378.2	16855.3	2367.4	1356.7	1034.0	898.0	583.1	517.0	540.3	552.0
29974.9	52.5°	25045.9	17174.1	2351.8	1212.8	925.2	843.5	583.1	493.7	517.0	524.8
32999.3	55°	26663.0	17111.9	2114.7	999.0	785.2	746.4	567.5	474.3	489.8	493.7
35856.4	57.5°	27941.9	16245.0	1675.4	777.5	637.5	622.0	517.0	450.9	462.6	458.7
38476.5	60°	28610.5	14340.2	1197.3	598.6	501.5	489.8	454.8	419.8	427.6	408.2
40696.1	62.5°	28618.3	11821.3	800.8	474.3	400.4	388.7	388.7	377.1	369.3	330.4
42414.3	65°	28008.0	9026.3	532.6	377.1	322.6	303.2	326.5	322.6	295.4	241.0
42939.1	67.5°	26624.1	5916.5	404.3	295.4	248.8	237.1	260.4	272.1	252.7	202.1
41026.5	70°	23778.6	3444.1	334.3	229.4	186.6	174.9	209.9	233.2	209.9	163.3
35067.3	72.5°	19751.4	1858.1	272.1	171.0	128.3	116.6	167.2	190.5	167.2	120.5
22499.7	75°	12816.4	995.1	209.9	112.7	66.1	73.9	124.4	139.9	116.6	77.7
6604.5	77.5°	4303.2	439.3	132.2	54.4	31.1	31.1	73.9	85.5	54.4	27.2
1201.2	80°	960.2	182.7	54.4	23.3	11.7	11.7	15.5	15.5	7.8	0.0
369.3	82.5°	314.9	73.9	23.3	7.8	0.0	0.0	0.0	0.0	0.0	0.0
93.3	85°	120.5	27.2	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31.1	87.5°	46.6	3.9	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>
9601.6
9473.3
8330.5
6627.8
4451.0
2678.3
1986.4
1862.0
1776.5
1659.9
1508.3
1360.6
1208.9
1030.1
863.0
734.7
668.6
629.7
602.5
579.2
555.9
524.8
493.7
458.7
404.3
318.8
233.2
198.3
155.5
116.6
70.0
23.3
0.0
0.0
0.0
0.0
0.0

F REPORT)