

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: P956166

Luminaire Tested: **GALN-SB8D-927-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956166
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-927-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 2700K, 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: 41699 lumens
Efficiency: N/A
Efficacy: 71.3 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

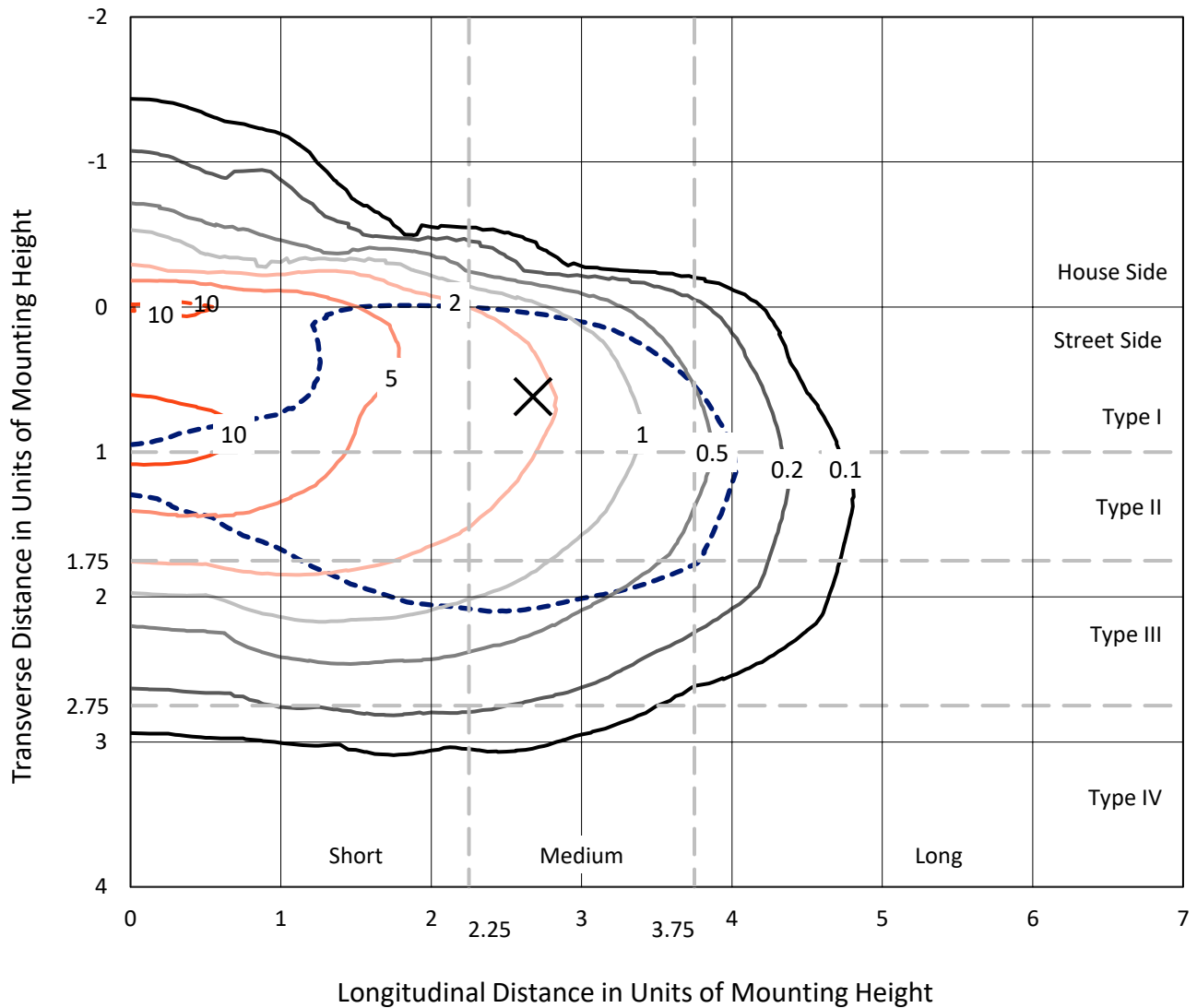
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P956166
 CATALOG NUMBER: GALN-SB8D-927-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

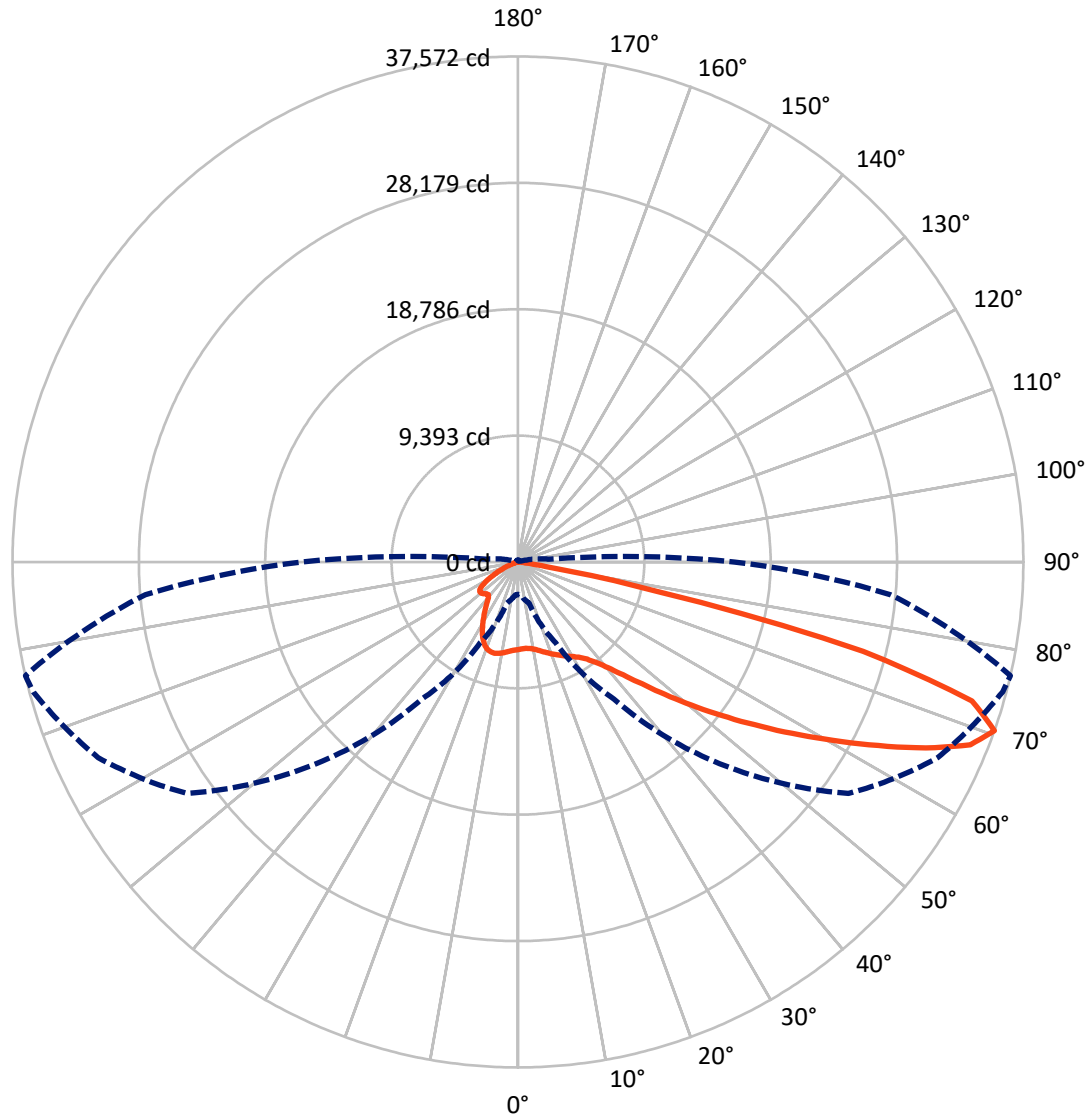
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P956166
CATALOG NUMBER: GALN-SB8D-927-U-T3R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P956166
 CATALOG NUMBER: GALN-SB8D-927-U-T3R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4395.7	0.0	4395.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	37303.3	0.0	37303.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	41699.0	0.0	41699.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.6	1.3
10°-20°	1330.7	3.2
20°-30°	2058.3	4.9
30°-40°	3734.8	9.0
40°-50°	7049.9	16.9
50°-60°	10186.5	24.4
60°-70°	10843.3	26.0
70°-80°	5746.2	13.8
80°-90°	188.7	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°	41699.0	100.0
0°-180°	41699.0	100.0

Coefficient of Utilization



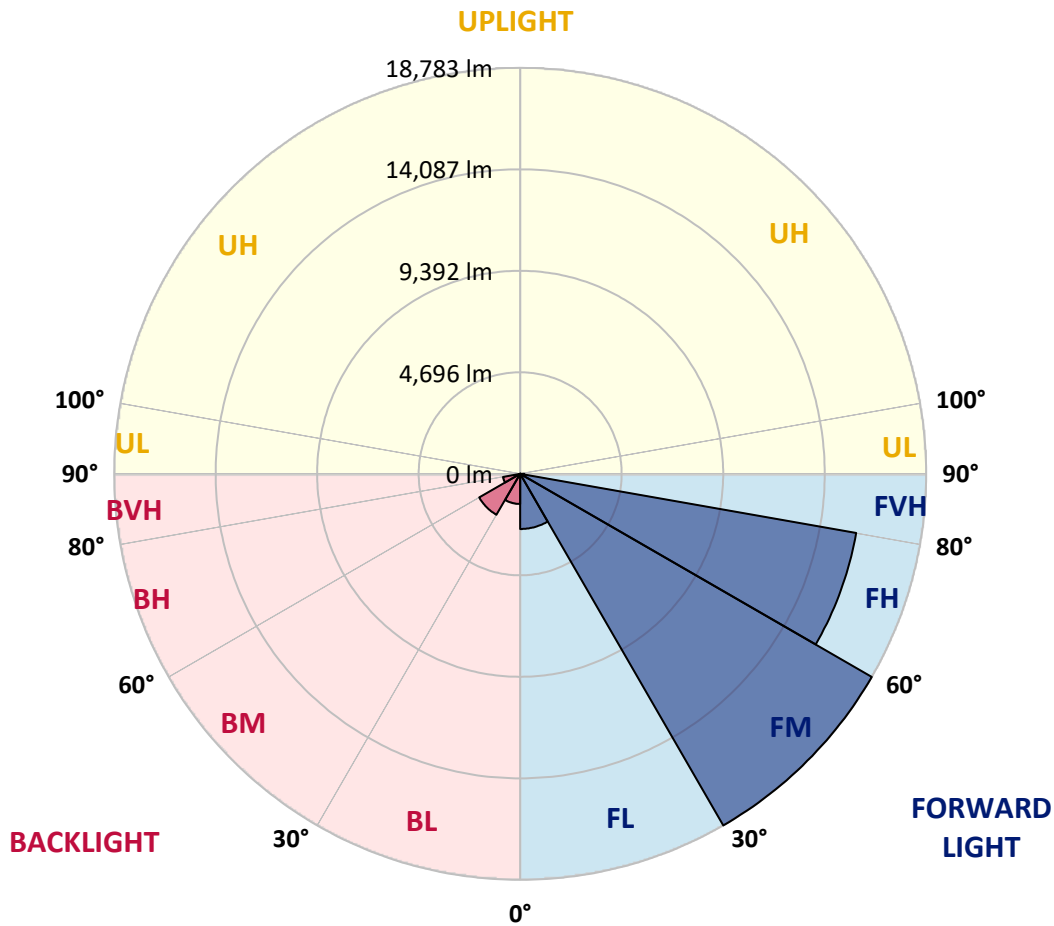
REPORT NUMBER: P956166
 CATALOG NUMBER: GALN-SB8D-927-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2553.0	6.1			
FM (30°-60°)	18783.1	45.0			
FH (60°-80°)	15783.7	37.9			G5
FVH (80°-90°)	183.6	0.4			G2/225
BL (0°-30°)	1396.6	3.3	B3/2500		
BM (30°-60°)	2188.2	5.2	B2/2500		
BH (60°-80°)	805.8	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.1	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: P956166
 CATALOG NUMBER: GALN-SB8D-927-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	6504.3	6504.3	6504.3	6504.3	6504.3	6504.3	6504.3	6504.3	6504.3	6504.3
2.5°	6106.7	6162.0	6154.1	6190.9	6204.1	6256.8	6309.4	6380.5	6459.5	6456.9
5°	5761.7	5817.0	5830.2	5880.2	5943.4	6025.0	6133.0	6275.2	6422.7	6446.4
7.5°	5353.5	5411.5	5445.7	5545.8	5661.6	5830.2	6006.6	6214.6	6459.5	6493.8
10°	4945.4	4998.0	5042.8	5185.0	5369.3	5619.5	5906.5	6206.7	6535.9	6585.9
12.5°	4692.6	4742.6	4792.6	4916.4	5145.5	5451.0	5840.7	6243.6	6662.3	6733.4
15°	4603.0	4647.8	4687.3	4797.9	5011.2	5358.8	5827.5	6320.0	6822.9	6917.7
17.5°	4616.2	4639.9	4666.2	4750.5	4958.5	5316.7	5851.2	6451.6	7012.5	7096.8
20°	4692.6	4705.7	4708.4	4766.3	4950.6	5311.4	5898.6	6578.0	7191.6	7304.8
22.5°	4790.0	4795.3	4790.0	4829.5	5000.7	5350.9	5961.8	6730.8	7391.7	7497.1
25°	5245.6	5145.5	5019.1	4942.7	5084.9	5427.3	6056.6	6936.2	7610.3	7713.0
27.5°	6659.7	6372.6	5919.7	5411.5	5258.7	5537.9	6188.3	7144.2	7831.5	7923.6
30°	8955.9	8579.3	7810.4	6664.9	5817.0	5769.6	6359.5	7352.2	8065.8	8165.9
32.5°	11257.4	11165.3	10277.8	8692.6	7073.1	6285.7	6643.9	7634.0	8376.6	8455.6
35°	13585.3	13398.3	12671.5	11104.7	9008.6	7336.4	7117.9	8002.6	8784.7	8874.3
37.5°	15368.0	15254.8	14804.5	13514.2	11304.8	8958.5	7928.9	8574.1	9377.2	9477.3
40°	16942.8	16890.1	16737.4	15886.8	13872.3	11081.0	9190.3	9458.9	10198.8	10317.3
42.5°	18180.4	18304.2	18391.1	18154.1	16518.8	13503.6	10886.1	10701.8	11344.3	11465.5
45°	19447.0	19489.2	19839.4	20181.7	19146.8	16036.9	12797.9	12158.0	12769.0	12919.0
47.5°	20260.7	20429.3	21045.5	21648.5	21356.2	18549.1	14851.9	13877.6	14420.0	14701.8
50°	20321.3	20639.9	21487.9	22538.6	22965.2	20940.1	17085.0	15836.8	16413.5	16724.2
52.5°	19312.7	19807.8	21121.8	22659.7	23834.1	22965.2	19394.4	17796.0	18535.9	18941.4
55°	14807.1	15454.9	19744.6	22001.4	23868.4	24500.4	21643.2	19836.8	20900.6	21358.8
57.5°	12900.6	13227.1	15523.4	20858.5	23233.7	25119.2	23676.1	21780.2	23473.4	24042.2
60°	10733.4	11162.6	13019.1	18988.8	22372.7	25179.8	25472.1	24287.1	26262.1	26902.0
62.5°	7294.3	7760.4	9606.3	15776.2	21195.6	25150.8	26944.1	26867.7	29361.5	30048.8
65°	4518.8	4811.1	6027.7	12882.2	19549.7	25182.4	28484.6	30001.4	32632.1	33329.9
67.5°	3570.8	3705.1	4339.7	9890.7	16713.7	24471.4	30022.4	32948.1	35710.4	36263.4
70°	2399.0	2480.6	3157.3	6630.7	12434.5	21190.3	29993.5	34428.0	37295.7	37572.2
72.5°	1264.0	1327.2	1846.0	3070.4	7510.2	15062.6	25282.5	32658.4	35718.3	35302.2
75°	632.0	737.3	1242.9	1558.9	3207.4	8400.3	15699.8	25748.6	28113.3	26501.7
77.5°	479.3	579.3	1027.0	1027.0	1116.5	2828.2	6649.1	14043.5	12953.3	10786.1
80°	305.5	395.0	898.0	776.8	466.1	718.9	1732.7	3934.2	2751.8	2093.5
82.5°	179.1	258.1	747.9	513.5	260.7	266.0	489.8	837.4	713.6	555.6
85°	71.1	168.5	513.5	202.8	102.7	65.8	147.5	179.1	147.5	110.6
87.5°	0.0	39.5	89.5	0.0	7.9	5.3	10.5	13.2	13.2	10.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956166
 CATALOG NUMBER: GALN-SB8D-927-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6504.3	0°	6504.3	6504.3	6504.3	6504.3	6504.3	6504.3	6504.3	6504.3	6504.3	6504.3
6509.6	2.5°	6533.3	6538.5	6554.3	6557.0	6520.1	6472.7	6454.3	6446.4	6414.8	6412.1
6551.7	5°	6612.3	6636.0	6612.3	6543.8	6380.5	6151.4	5977.6	5835.4	5706.4	5666.9
6696.5	7.5°	6770.3	6794.0	6722.9	6454.3	6043.5	5587.9	5177.1	4887.4	4626.7	4529.3
6873.0	10°	6996.7	7028.3	6804.5	6262.0	5535.2	4803.2	4108.0	3618.2	3236.3	3081.0
7112.6	12.5°	7281.1	7294.3	6849.3	5969.7	4874.3	3828.8	2844.0	2320.0	1980.3	1853.9
7402.3	15°	7594.5	7576.1	6854.5	5572.1	3973.7	2707.0	1856.5	1524.7	1387.8	1345.6
7691.9	17.5°	7923.6	7847.3	6749.2	4998.0	2986.2	1851.2	1377.2	1298.2	1274.5	1264.0
7978.9	20°	8247.5	8076.4	6557.0	4247.5	2143.5	1382.5	1250.8	1227.1	1214.0	1208.7
8268.6	22.5°	8542.5	8250.2	6227.8	3375.9	1556.3	1221.9	1182.4	1161.3	1137.6	1127.1
8550.4	25°	8829.5	8350.2	5764.3	2562.2	1245.6	1142.9	1111.3	1071.8	1040.2	1027.0
8853.2	27.5°	9108.6	8413.4	5185.0	1896.0	1111.3	1069.1	1011.2	955.9	932.2	926.9
9177.1	30°	9406.2	8434.5	4526.7	1414.1	1029.6	977.0	892.7	829.5	816.3	819.0
9614.2	32.5°	9769.6	8466.1	3863.1	1158.7	961.2	866.4	766.3	700.5	689.9	700.5
10251.5	35°	10204.1	8529.3	3223.2	1066.5	900.6	753.1	645.2	589.9	579.3	587.2
11067.8	37.5°	10794.0	8632.0	2625.4	1048.1	850.6	658.3	542.5	497.7	497.7	500.3
12068.5	40°	11578.7	8905.9	2090.9	1034.9	824.2	587.2	458.2	439.8	447.7	452.9
13343.0	42.5°	12534.6	9487.8	1730.1	1019.1	795.3	555.6	416.1	408.2	421.3	426.6
14870.3	45°	13606.3	10225.2	1603.7	992.8	768.9	576.7	397.6	387.1	402.9	405.5
16582.0	47.5°	14715.0	10946.7	1587.9	963.8	742.6	608.3	392.4	368.7	387.1	389.7
18409.5	50°	15836.8	11418.1	1603.7	919.0	700.5	608.3	395.0	350.2	366.0	373.9
20305.5	52.5°	16966.5	11634.0	1593.2	821.6	626.7	571.4	395.0	334.4	350.2	355.5
22354.2	55°	18061.9	11591.9	1432.5	676.8	531.9	505.6	384.5	321.3	331.8	334.4
24289.7	57.5°	18928.3	11004.6	1135.0	526.7	431.9	421.3	350.2	305.5	313.4	310.7
26064.6	60°	19381.2	9714.3	811.1	405.5	339.7	331.8	308.1	284.4	289.7	276.5
27568.2	62.5°	19386.5	8007.9	542.5	321.3	271.2	263.3	263.3	255.4	250.2	223.8
28732.1	65°	18973.0	6114.6	360.8	255.4	218.6	205.4	221.2	218.6	200.1	163.3
29087.6	67.5°	18035.6	4007.9	273.9	200.1	168.5	160.6	176.4	184.3	171.2	136.9
27792.0	70°	16108.0	2333.1	226.5	155.4	126.4	118.5	142.2	158.0	142.2	110.6
23755.1	72.5°	13379.9	1258.7	184.3	115.9	86.9	79.0	113.2	129.0	113.2	81.6
15241.6	75°	8682.0	674.1	142.2	76.4	44.8	50.0	84.3	94.8	79.0	52.7
4474.0	77.5°	2915.1	297.6	89.5	36.9	21.1	21.1	50.0	57.9	36.9	18.4
813.7	80°	650.4	123.8	36.9	15.8	7.9	7.9	10.5	10.5	5.3	0.0
250.2	82.5°	213.3	50.0	15.8	5.3	0.0	0.0	0.0	0.0	0.0	0.0
63.2	85°	81.6	18.4	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21.1	87.5°	31.6	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>
6504.3
6417.4
5643.2
4489.8
3015.1
1814.4
1345.6
1261.4
1203.4
1124.4
1021.7
921.7
819.0
697.8
584.6
497.7
452.9
426.6
408.2
392.4
376.6
355.5
334.4
310.7
273.9
215.9
158.0
134.3
105.3
79.0
47.4
15.8
0.0
0.0
0.0
0.0
0.0

F REPORT)