

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: P941848

Luminaire Tested: **GALN-SB5C-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24907 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

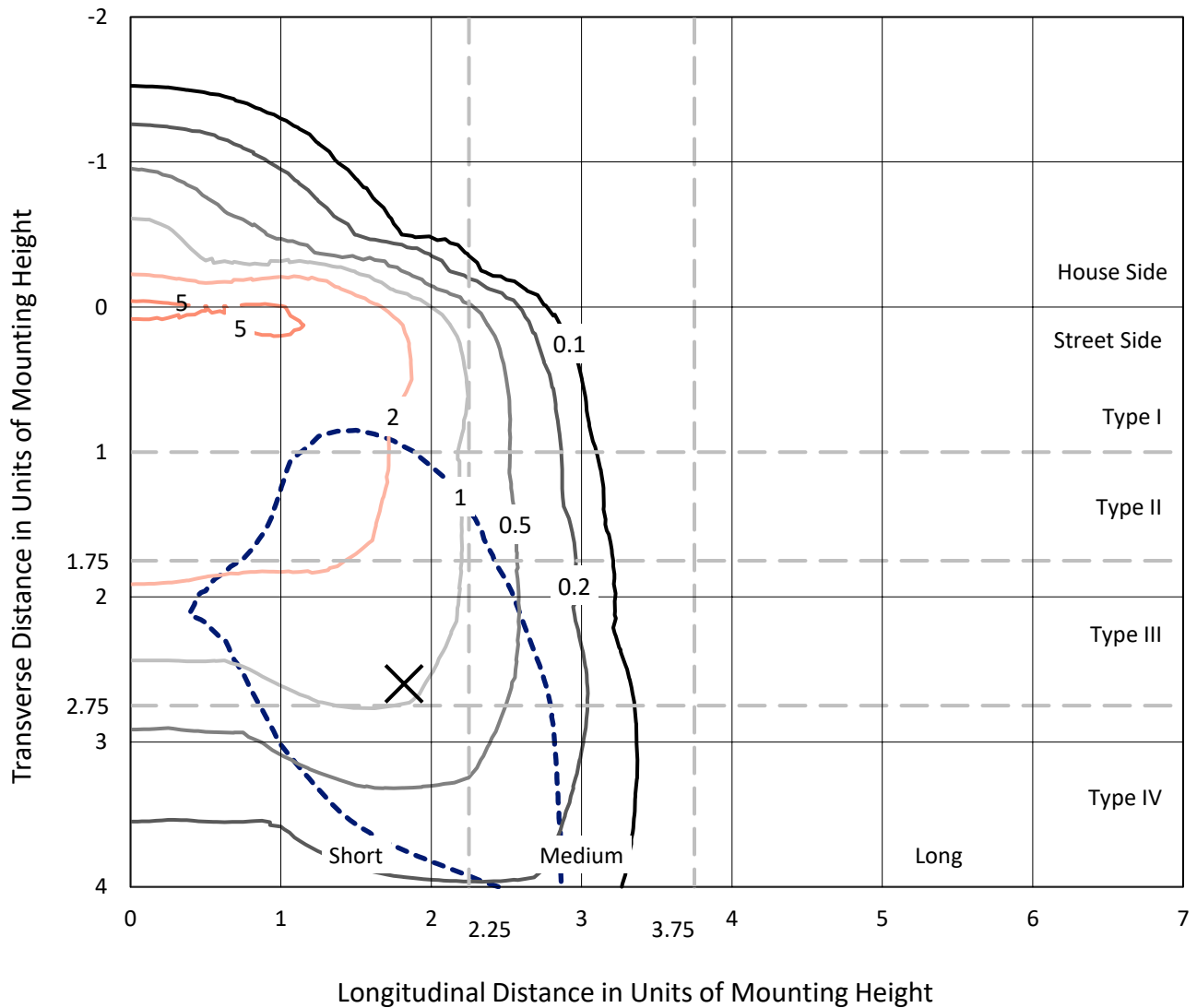
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941848
 CATALOG NUMBER: GALN-SB5C-827-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

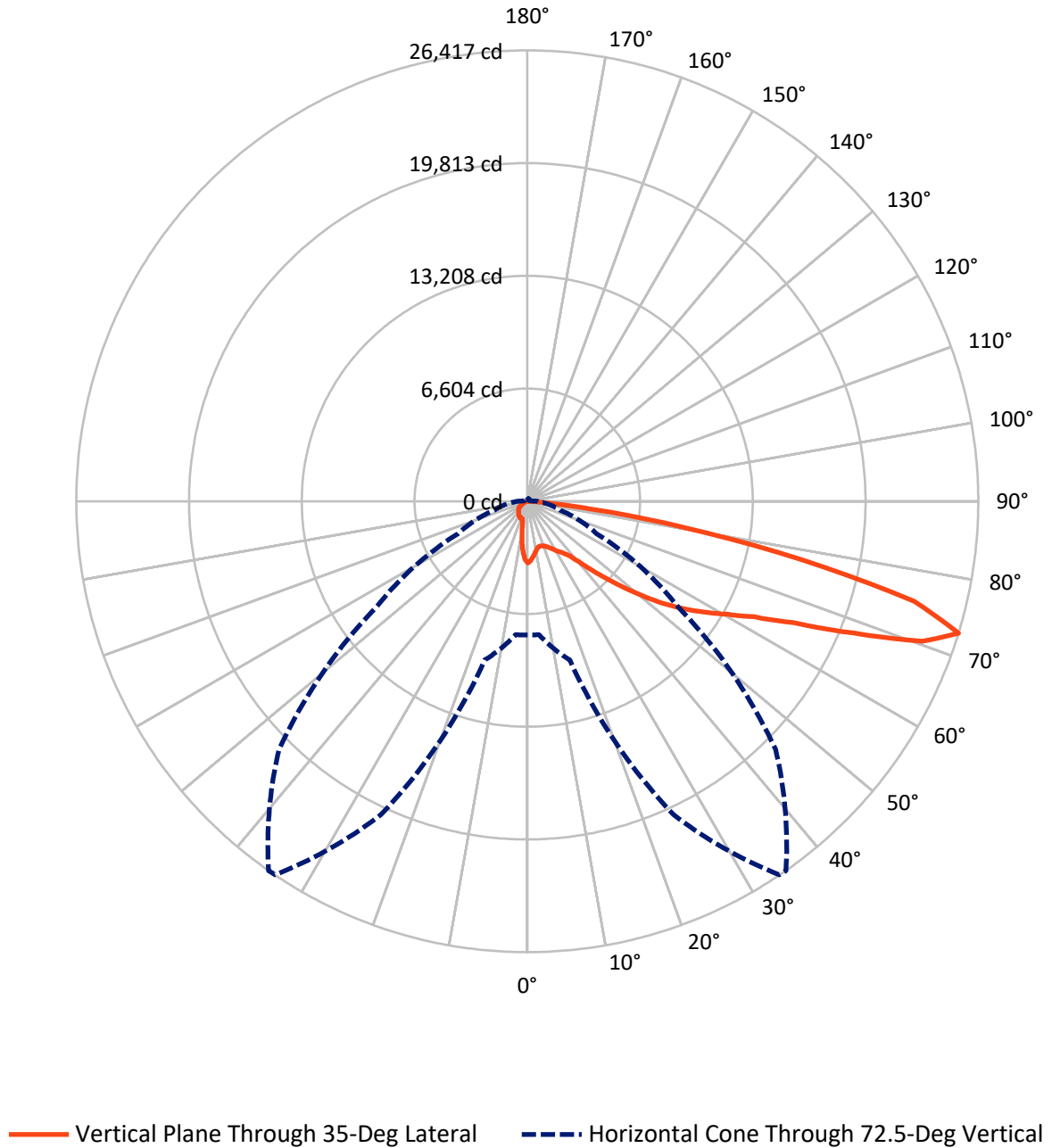
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P941848
CATALOG NUMBER: GALN-SB5C-827-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P941848
 CATALOG NUMBER: GALN-SB5C-827-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2803.2	0.0	2803.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	22103.8	0.0	22103.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	24907.0	0.0	24907.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.6	1.2
10°-20°	693.9	2.8
20°-30°	1127.3	4.5
30°-40°	1880.9	7.6
40°-50°	3558.7	14.3
50°-60°	5654.7	22.7
60°-70°	6995.2	28.1
70°-80°	4348.3	17.5
80°-90°	351.4	1.4
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°	24907.0	100.0
0°-180°	24907.0	100.0

Coefficient of Utilization



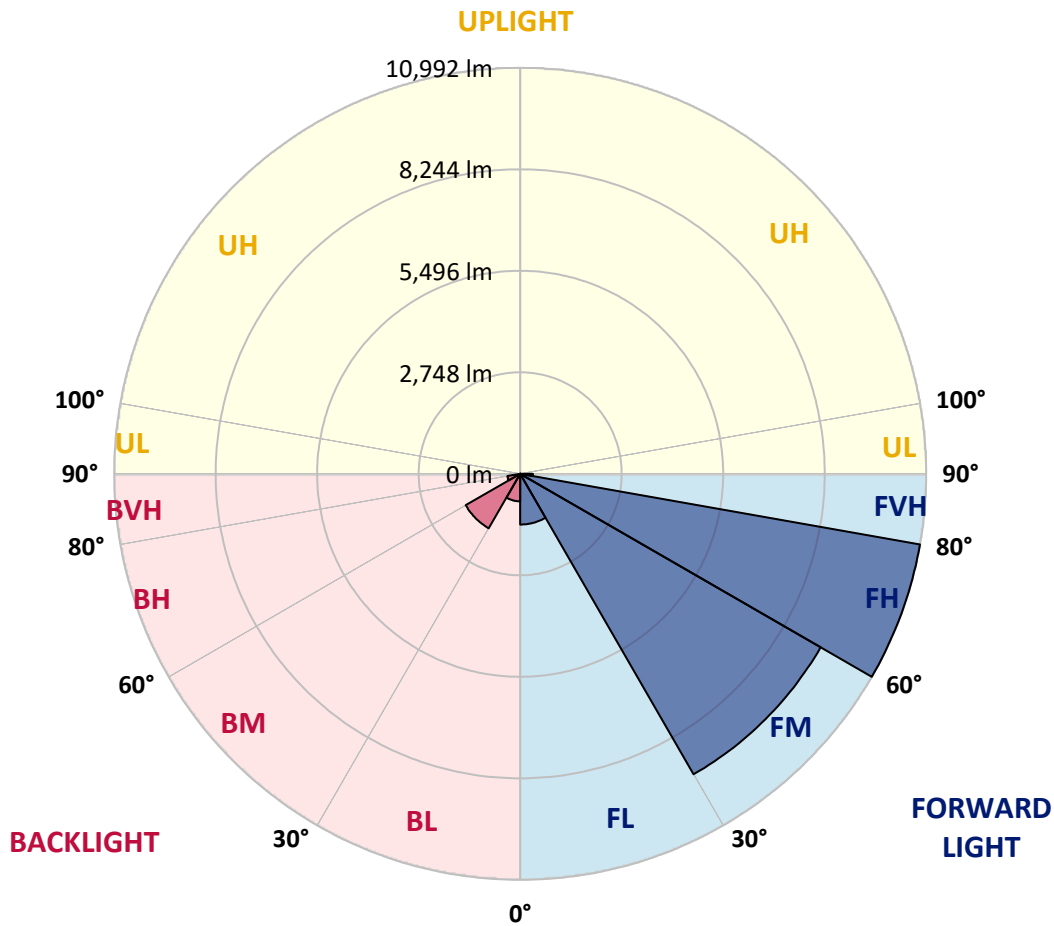
REPORT NUMBER: P941848
 CATALOG NUMBER: GALN-SB5C-827-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1373.0	5.5			
FM (30°-60°)	9392.4	37.7			
FH (60°-80°)	10991.8	44.1			G4/12000
FVH (80°-90°)	346.6	1.4			G3/500
BL (0°-30°)	744.9	3.0	B2/1000		
BM (30°-60°)	1701.8	6.8	B2/2500		
BH (60°-80°)	351.8	1.4	B1/500		G1/500
BVH (80°-90°)	4.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



REPORT NUMBER: P941848
 CATALOG NUMBER: GALN-SB5C-827-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	3609.9	3609.9	3609.9	3609.9	3609.9	3609.9	3609.9	3609.9	3609.9	3609.9
2.5°	3449.3	3478.5	3483.9	3493.1	3493.1	3504.0	3522.3	3547.8	3589.8	3611.7
5°	3179.2	3201.1	3228.4	3250.3	3292.3	3297.8	3369.0	3438.3	3535.0	3608.0
7.5°	2907.2	2932.8	2969.3	3022.2	3077.0	3093.4	3201.1	3317.9	3471.2	3608.0
10°	2715.6	2717.4	2750.3	2803.2	2890.8	2910.9	3042.3	3208.4	3400.0	3586.1
12.5°	2607.9	2620.7	2635.3	2675.5	2759.4	2772.2	2912.7	3108.0	3328.8	3573.4
15°	2607.9	2617.1	2626.2	2646.3	2713.8	2724.7	2848.8	3044.1	3292.3	3578.8
17.5°	2635.3	2649.9	2642.6	2666.3	2737.5	2744.8	2854.3	3025.9	3290.5	3613.5
20°	2701.0	2712.0	2697.4	2712.0	2783.1	2797.7	2910.9	3060.5	3321.5	3673.7
22.5°	2805.0	2810.5	2775.8	2786.8	2859.8	2878.0	3009.4	3159.1	3396.3	3770.5
25°	2936.4	2947.4	2894.5	2907.2	2976.6	2998.5	3150.0	3306.9	3515.0	3903.7
27.5°	3087.9	3093.4	3047.8	3045.9	3135.4	3166.4	3319.7	3489.4	3673.7	4071.6
30°	3261.3	3277.7	3233.9	3226.6	3339.8	3365.3	3516.8	3713.9	3907.3	4323.4
32.5°	3398.2	3410.9	3385.4	3403.6	3518.6	3538.7	3755.9	4031.4	4274.2	4681.1
35°	3595.3	3602.6	3544.2	3577.0	3708.4	3759.5	4082.5	4476.7	4735.9	5130.1
37.5°	4308.8	4308.8	4060.6	3898.2	4024.1	4069.8	4529.7	5037.0	5305.3	5732.3
40°	5296.2	5279.7	4916.6	4584.4	4568.0	4657.4	5166.6	5743.3	6040.8	6455.0
42.5°	6349.2	6323.6	5829.1	5500.6	5445.8	5476.8	5902.1	6613.8	6916.8	7336.5
45°	7283.6	7276.3	6823.7	6382.0	6283.5	6382.0	6820.0	7632.2	7849.3	8291.0
47.5°	8066.5	8066.5	7736.2	7447.8	7396.7	7455.1	8062.9	8761.8	8741.8	9307.5
50°	8968.1	8960.8	8646.9	8522.8	8575.7	8657.8	9493.7	9951.8	9665.2	10305.8
52.5°	9599.5	9643.3	9535.6	9515.6	9785.7	9928.0	10946.4	11116.1	10492.0	11253.0
55°	10099.6	10150.7	10274.8	10415.3	10935.4	11121.6	12353.5	12220.2	11183.6	12074.2
57.5°	10807.7	10734.7	10926.3	11203.7	12045.0	12269.5	13716.7	13262.3	11740.3	12740.4
60°	11667.3	11678.2	11711.1	12061.5	13152.8	13441.2	15059.9	14247.8	12098.0	13149.2
62.5°	12700.2	12716.6	12784.2	13322.5	14640.2	14912.1	16490.7	15054.5	12262.2	13034.2
65°	12629.0	12698.4	13452.1	15293.5	16901.4	17169.6	18160.6	15620.2	12014.0	11983.0
67.5°	11504.8	11618.0	12879.1	17647.8	20310.5	20609.8	20179.1	15731.5	10942.7	9318.5
70°	10030.2	10070.4	11587.0	19764.8	24258.0	24560.9	21985.8	14507.0	8303.8	5197.6
72.5°	7832.9	7842.0	9621.4	20255.7	26400.5	26416.9	20567.8	10769.4	4465.8	1996.6
75°	5595.5	5540.7	6444.1	16426.9	23226.8	23413.0	15419.5	5051.6	1706.4	943.5
77.5°	3000.3	3060.5	3646.4	9741.9	16045.4	16363.0	8413.3	1456.4	868.7	642.4
80°	927.1	978.2	1494.7	4460.3	9088.5	9280.1	3118.9	647.9	605.9	458.1
82.5°	292.0	303.0	697.2	1874.3	3772.3	3859.9	903.4	366.8	414.3	303.0
85°	84.0	85.8	310.3	699.0	932.6	950.8	253.7	142.4	237.3	188.0
87.5°	9.1	29.2	116.8	116.8	82.1	80.3	27.4	31.0	67.5	23.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941848
 CATALOG NUMBER: GALN-SB5C-827-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3609.9	0°	3609.9	3609.9	3609.9	3609.9	3609.9	3609.9	3609.9	3609.9	3609.9	3609.9
3626.3	2.5°	3617.2	3619.0	3595.3	3555.1	3511.3	3474.8	3429.2	3392.7	3367.1	3359.8
3659.1	5°	3642.7	3629.9	3562.4	3440.1	3294.1	3168.2	3027.7	2916.4	2843.4	2812.3
3693.8	7.5°	3681.0	3644.5	3496.7	3255.8	2976.6	2728.4	2476.5	2281.3	2157.2	2095.1
3726.7	10°	3713.9	3640.9	3387.2	2989.4	2562.3	2186.4	1846.9	1611.5	1480.1	1418.0
3765.0	12.5°	3744.9	3639.1	3244.9	2673.6	2095.1	1635.2	1319.5	1202.7	1166.2	1153.4
3827.0	15°	3803.3	3644.5	3066.0	2312.3	1629.7	1235.5	1120.6	1118.7	1126.0	1122.4
3921.9	17.5°	3883.6	3650.0	2863.4	1929.0	1257.4	1089.5	1084.1	1100.5	1111.4	1106.0
4040.6	20°	3987.6	3671.9	2648.1	1549.4	1080.4	1053.0	1065.8	1080.4	1089.5	1080.4
4199.3	22.5°	4133.6	3710.2	2412.7	1244.7	1023.8	1031.1	1042.1	1058.5	1067.6	1054.9
4401.9	25°	4312.5	3770.5	2180.9	1082.2	996.5	1005.6	1022.0	1040.3	1051.2	1038.4
4657.4	27.5°	4544.3	3867.2	1967.4	1045.7	969.1	974.6	998.3	1025.7	1040.3	1023.8
5020.6	30°	4880.1	4026.0	1783.0	1062.2	952.7	939.9	972.7	1011.1	1027.5	1012.9
5515.2	32.5°	5325.4	4250.4	1669.9	1087.7	945.4	899.7	930.8	980.0	1007.4	998.3
6161.2	35°	5909.4	4591.7	1626.1	1116.9	939.9	857.8	879.7	932.6	980.0	989.2
6975.2	37.5°	6617.5	5066.2	1638.9	1129.7	923.5	823.1	834.0	879.7	941.7	970.9
7891.3	40°	7422.3	5619.2	1711.9	1116.9	905.2	793.9	795.7	830.4	885.1	928.9
8876.8	42.5°	8252.7	6265.2	1846.9	1069.5	888.8	768.3	762.9	786.6	823.1	854.1
9860.5	45°	9042.9	6929.5	1980.1	1003.8	868.7	742.8	730.0	739.1	746.4	759.2
10818.6	47.5°	9732.8	7396.7	1941.8	943.5	841.3	713.6	691.7	688.0	666.1	664.3
11674.6	50°	10209.1	7498.9	1724.6	883.3	801.2	680.7	646.1	624.2	585.8	567.6
12315.1	52.5°	10360.6	7095.6	1408.9	823.1	735.5	636.9	587.7	553.0	505.5	489.1
12683.8	55°	10159.8	6305.4	1126.0	750.1	644.2	578.5	523.8	478.2	439.8	419.8
12723.9	57.5°	9668.9	5299.8	890.6	664.3	547.5	512.8	458.1	412.5	379.6	359.5
12278.6	60°	8854.9	4208.5	704.5	562.1	467.2	441.7	385.1	355.9	326.7	303.0
11128.9	62.5°	7619.4	3004.0	553.0	445.3	390.6	361.4	328.5	306.6	271.9	239.1
9061.1	65°	5945.9	1837.8	427.1	326.7	313.9	299.3	279.2	259.2	217.2	184.3
5911.2	67.5°	3750.4	870.5	304.8	246.4	248.2	240.9	231.8	215.4	184.3	155.1
2648.1	70°	1651.6	421.6	200.8	188.0	184.3	184.3	191.6	186.2	157.0	129.6
919.8	72.5°	562.1	226.3	149.7	142.4	133.2	131.4	160.6	155.1	125.9	100.4
458.1	75°	293.8	151.5	109.5	102.2	80.3	96.7	127.8	120.5	89.4	65.7
303.0	77.5°	191.6	107.7	74.8	65.7	45.6	63.9	94.9	84.0	52.9	32.9
198.9	80°	120.5	71.2	43.8	31.0	21.9	34.7	51.1	36.5	20.1	7.3
116.8	82.5°	63.9	36.5	16.4	11.0	9.1	11.0	12.8	9.1	3.7	0.0
60.2	85°	25.6	12.8	5.5	3.7	1.8	0.0	3.7	1.8	0.0	0.0
11.0	87.5°	9.1	1.8	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

180°
3609.9
3372.6
2823.3
2104.2
1419.9
1149.8
1120.6
1104.1
1078.6
1053.0
1036.6
1023.8
1011.1
998.3
989.2
978.2
943.5
866.9
766.5
662.5
569.4
487.3
419.8
355.9
297.5
233.6
178.9
151.5
124.1
94.9
60.2
29.2
5.5
0.0
0.0
0.0
0.0

F REPORT)