

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: P956330

Luminaire Tested: **GALN-SB9A-735-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956330
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-SB9A-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3500K, 350mA 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: 34594 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

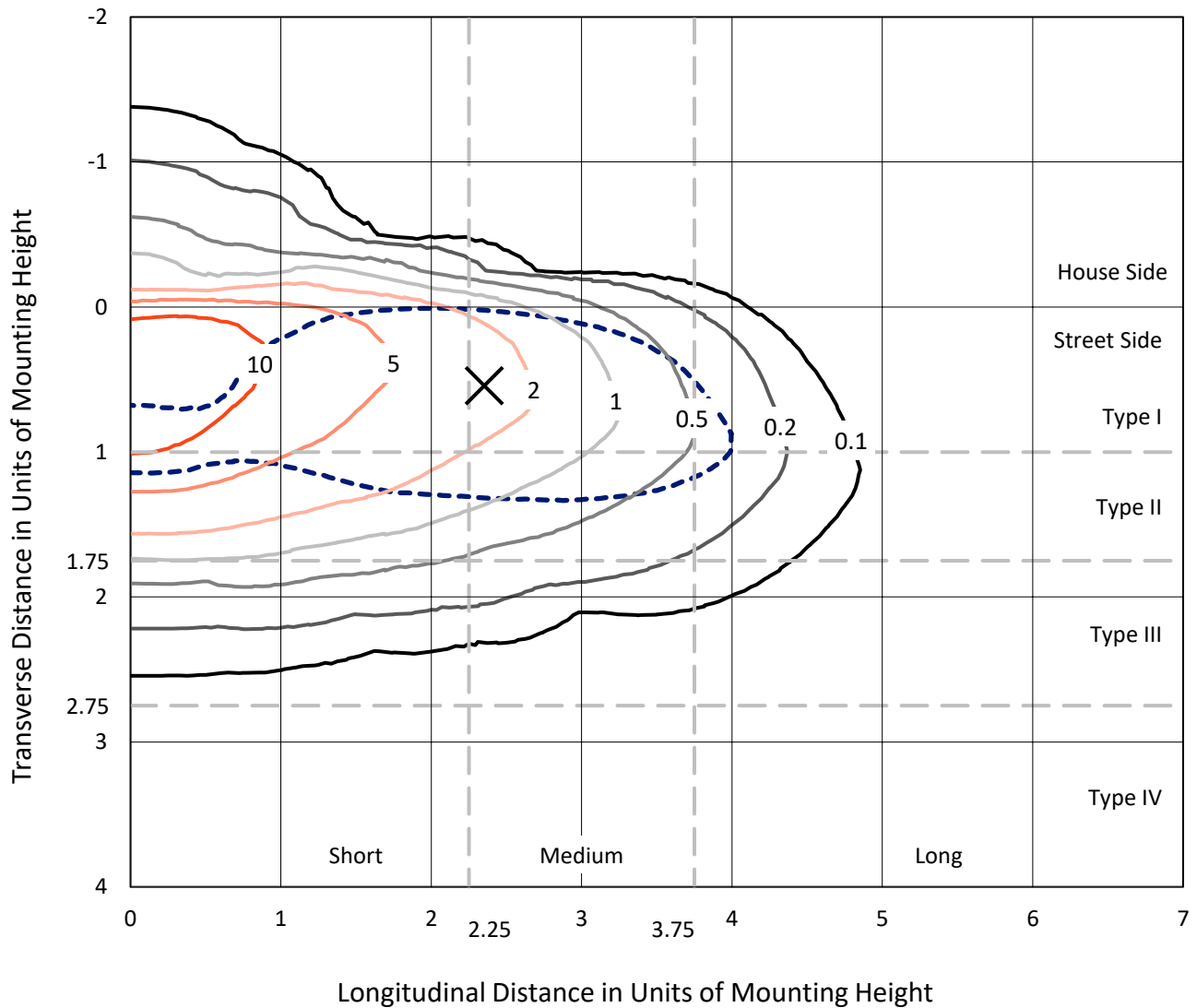
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P956330
 CATALOG NUMBER: GALN-SB9A-735-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

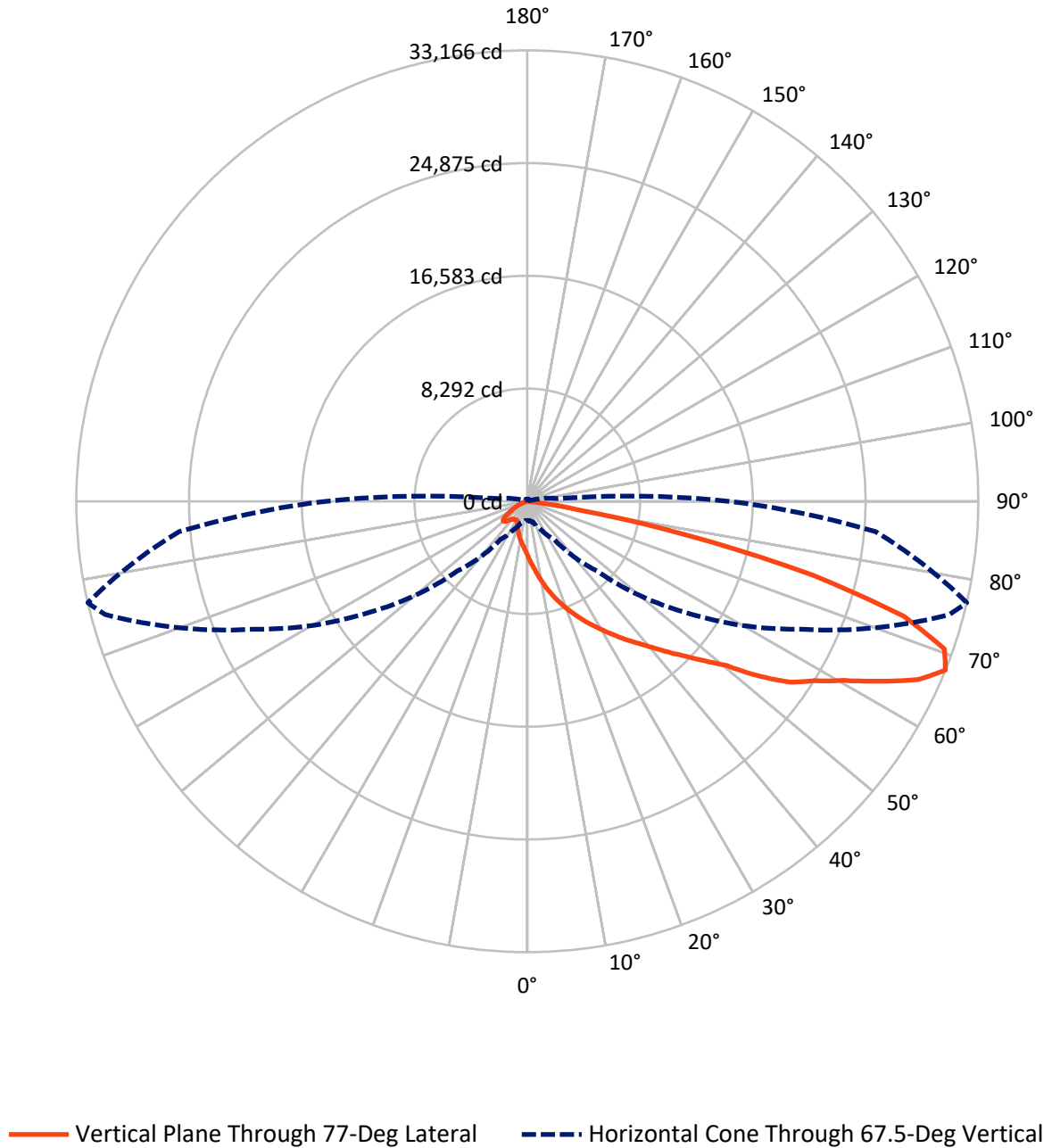
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P956330
CATALOG NUMBER: GALN-SB9A-735-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P956330
 CATALOG NUMBER: GALN-SB9A-735-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2545.1	0.0	2545.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	32048.9	0.0	32048.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	34594.0	0.0	34594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.2	1.2
10°-20°	1425.8	4.1
20°-30°	2751.5	8.0
30°-40°	4776.7	13.8
40°-50°	6935.5	20.0
50°-60°	7964.6	23.0
60°-70°	6914.7	20.0
70°-80°	3256.9	9.4
80°-90°	161.1	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°	34594.0	100.0
0°-180°	34594.0	100.0

Coefficient of Utilization



REPORT NUMBER: P956330

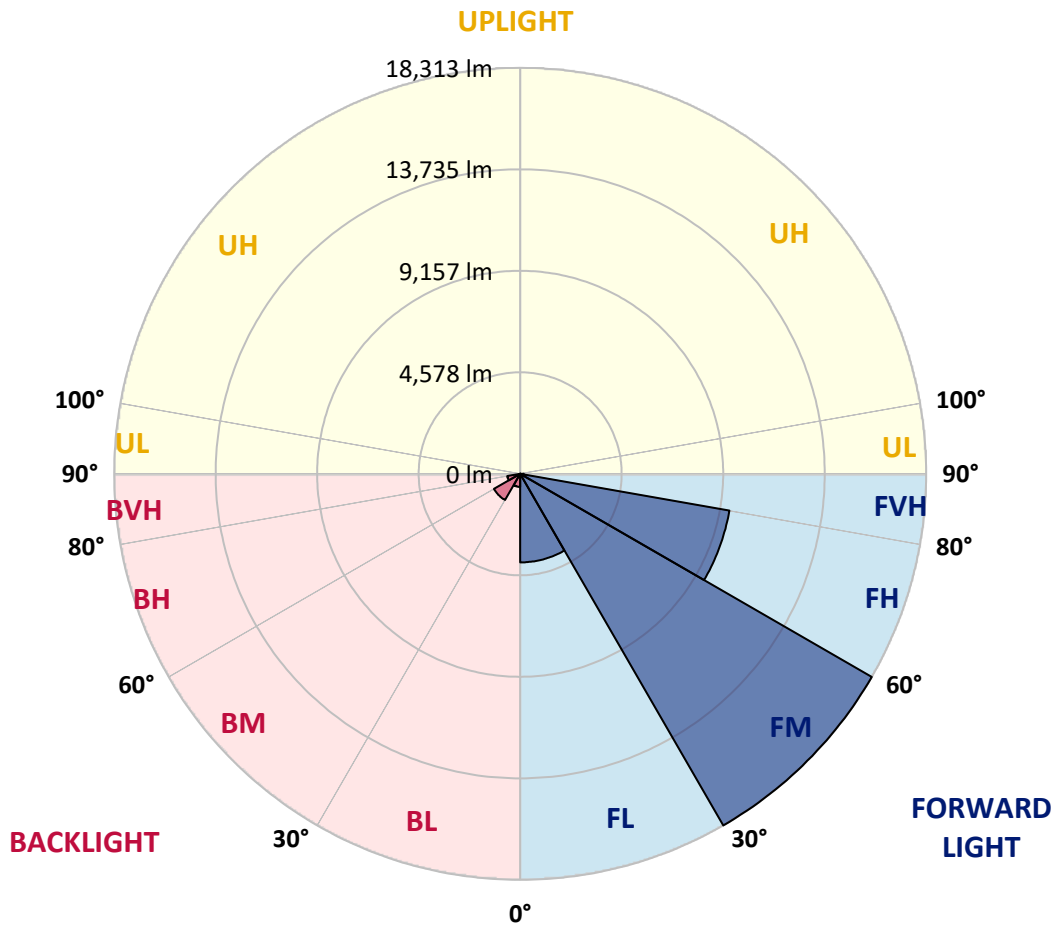
CATALOG NUMBER: GALN-SB9A-735-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3995.2	11.5			
FM (30°-60°)	18313.1	52.9			
FH (60°-80°)	9582.4	27.7			G4/12000
FVH (80°-90°)	158.1	0.5			G2/225
BL (0°-30°)	589.2	1.7	B2/1000		
BM (30°-60°)	1363.7	3.9	B2/2500		
BH (60°-80°)	589.2	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.0	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 II Medium



REPORT NUMBER: P956330
 CATALOG NUMBER: GALN-SB9A-735-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3989.2	3989.2	3989.2	3989.2	3989.2	3989.2	3989.2	3989.2	3989.2	3989.2
2.5°	5523.0	5557.4	5508.0	5413.4	5271.7	5179.3	4953.7	4741.1	4504.8	4429.6
5°	6732.4	6762.5	6706.7	6603.5	6414.5	6234.1	5937.6	5492.9	5031.1	4882.8
7.5°	7628.2	7645.4	7623.9	7529.4	7349.0	7144.9	6814.1	6287.8	5602.5	5439.2
10°	8272.7	8328.5	8322.1	8285.6	8165.3	7999.9	7647.6	7048.2	6242.7	6032.1
12.5°	8700.2	8762.5	8799.0	8880.6	8874.2	8768.9	8459.6	7825.9	6880.7	6633.6
15°	8824.8	8891.4	9031.0	9220.0	9387.6	9441.3	9224.3	8588.5	7583.1	7267.3
17.5°	8753.9	8857.0	9024.6	9323.2	9690.5	9933.3	9909.6	9325.3	8221.1	7860.2
20°	8910.7	9009.5	9140.6	9391.9	9819.4	10259.8	10435.9	10029.9	8854.9	8476.8
22.5°	9778.6	9761.4	9774.3	9815.1	10070.7	10506.8	10869.9	10670.1	9482.1	9095.5
25°	11153.4	11076.1	10945.0	10723.8	10659.3	10869.9	11247.9	11237.2	10143.8	9729.2
27.5°	12730.2	12717.3	12410.1	11877.4	11576.6	11495.0	11675.4	11789.3	10799.0	10356.4
30°	14240.4	14274.8	13860.1	13267.2	12715.2	12395.1	12231.8	12313.4	11464.9	11033.1
32.5°	15555.1	15591.6	15140.5	14446.6	13763.5	13376.8	13033.1	12831.2	12191.0	11720.5
35°	16665.7	16702.2	16184.5	15417.6	14689.4	14339.2	13950.4	13398.3	12921.4	12483.2
37.5°	17658.2	17647.4	16953.5	16180.2	15464.9	15187.7	14983.7	14096.5	13673.3	13250.1
40°	18244.6	18289.7	17696.8	16844.0	16150.1	15948.2	15935.3	14962.2	14541.1	14130.8
42.5°	18416.5	18496.0	18066.3	17366.0	16736.6	16517.5	16854.7	15898.8	15550.8	15151.2
45°	18107.1	18184.5	17989.0	17503.5	17136.1	16994.4	17645.3	16869.8	16629.2	16233.9
47.5°	17204.9	17301.6	17348.8	17245.7	17241.4	17385.3	18354.2	17892.3	17909.5	17505.6
50°	15458.4	15621.7	16055.6	16420.8	16985.8	17694.7	19043.7	19000.8	19353.1	19005.1
52.5°	12283.4	12515.4	14010.5	15009.4	16279.0	17636.7	19802.1	20779.5	21885.8	21376.7
55°	9871.0	9871.0	11086.8	12955.8	14899.9	17254.3	20132.9	21935.2	23610.8	23490.5
57.5°	8047.1	8143.8	8919.3	10571.3	12904.2	16343.5	20337.0	22661.3	25000.7	24912.6
60°	4966.6	5175.0	6640.1	8270.5	10633.6	14721.6	20208.1	23396.0	26687.0	26757.9
62.5°	2796.9	2874.3	3527.3	5950.5	8268.4	12541.2	19222.0	23806.3	28843.8	29144.6
65°	1931.2	1969.9	2221.2	3703.5	5731.4	9984.8	17295.1	23550.7	31004.9	31612.8
67.5°	1402.8	1422.1	1578.9	2262.0	3400.6	7239.4	14274.8	22261.7	32149.9	33166.0
70°	1078.4	1091.3	1205.1	1486.6	2008.6	4468.2	10367.2	19698.9	31320.7	32534.4
72.5°	876.5	889.4	977.4	1099.9	1331.9	2642.3	6283.5	15997.6	27660.1	28970.5
75°	739.0	756.2	835.6	915.1	1044.0	1697.1	2947.3	11140.5	20801.0	21660.2
77.5°	410.3	378.1	678.8	758.3	880.8	1074.1	1379.1	6556.3	11649.7	11888.1
80°	255.6	264.2	539.2	610.1	676.7	541.3	631.6	2524.1	4038.6	3836.7
82.5°	15.0	34.4	414.6	440.4	464.0	232.0	238.4	857.1	973.1	893.6
85°	0.0	0.0	189.0	152.5	161.1	66.6	68.7	199.8	131.0	141.8
87.5°	0.0	0.0	0.0	4.3	0.0	6.4	12.9	17.2	6.4	8.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956330
 CATALOG NUMBER: GALN-SB9A-735-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3989.2	0°	3989.2	3989.2	3989.2	3989.2	3989.2	3989.2	3989.2	3989.2	3989.2	3989.2
4193.3	2.5°	4042.9	3892.5	3587.5	3288.9	3046.1	2820.6	2659.5	2506.9	2429.6	2425.3
4463.9	5°	4165.3	3849.6	3239.5	2700.3	2266.3	1918.3	1692.8	1531.7	1450.0	1422.1
4796.9	7.5°	4337.2	3862.5	2934.4	2184.7	1673.4	1374.8	1246.0	1194.4	1177.2	1157.9
5172.9	10°	4554.2	3892.5	2661.6	1759.4	1319.0	1168.6	1117.1	1095.6	1082.7	1069.8
5596.0	12.5°	4796.9	3920.5	2390.9	1460.8	1160.0	1082.7	1046.2	1020.4	1003.2	988.2
6030.0	15°	5033.2	3937.6	2109.5	1252.4	1078.4	1016.1	977.4	949.5	925.9	908.7
6455.3	17.5°	5267.4	3961.3	1845.3	1127.8	1011.8	949.5	910.8	876.5	857.1	837.8
6902.1	20°	5527.3	3957.0	1596.1	1039.7	945.2	882.9	842.1	809.9	790.5	769.1
7374.8	22.5°	5767.9	3935.5	1377.0	964.5	876.5	816.3	771.2	739.0	719.6	702.5
7858.1	25°	6045.0	3918.3	1194.4	895.8	812.0	751.9	702.5	672.4	650.9	635.9
8343.6	27.5°	6311.4	3892.5	1061.2	833.5	749.7	691.7	644.5	610.1	590.8	580.0
8844.1	30°	6573.5	3886.1	1011.8	773.3	693.9	635.9	588.6	556.4	541.3	537.0
9394.1	32.5°	6889.3	3903.3	1033.3	751.9	642.3	584.3	539.2	515.6	500.5	500.5
10006.3	35°	7226.5	3899.0	1065.5	771.2	607.9	532.8	498.4	483.3	468.3	468.3
10685.1	37.5°	7649.7	3905.4	1091.3	803.4	595.0	489.8	470.5	451.1	442.5	442.5
11428.4	40°	8281.3	4118.1	1078.4	831.4	590.8	459.7	421.0	414.6	408.2	408.2
12268.3	42.5°	9054.6	4580.0	1095.6	833.5	588.6	438.2	386.7	399.6	384.5	382.4
13215.7	45°	9901.0	5084.8	1205.1	788.4	586.5	427.5	369.5	384.5	360.9	360.9
14313.4	47.5°	10741.0	5585.3	1316.8	723.9	580.0	425.3	354.5	345.9	339.4	341.6
15744.1	50°	11898.8	5993.5	1359.8	635.9	565.0	421.0	326.5	328.7	324.4	328.7
17761.3	52.5°	13159.8	6079.4	1308.3	537.0	522.0	408.2	307.2	315.8	313.6	317.9
19181.2	55°	13946.1	5987.0	1080.5	446.8	455.4	356.6	287.9	305.0	305.0	305.0
20569.0	57.5°	14758.1	5593.9	766.9	363.0	378.1	292.2	270.7	294.3	292.2	290.0
22240.3	60°	15342.4	4958.0	504.8	298.6	300.7	240.6	251.3	277.1	275.0	264.2
23963.1	62.5°	15778.5	4255.6	324.4	253.5	229.9	217.0	229.9	251.3	242.7	219.1
25423.9	65°	15729.1	3282.4	249.2	217.0	189.0	189.0	199.8	219.1	193.3	154.7
25703.1	67.5°	14811.8	2221.2	206.2	182.6	159.0	156.8	165.4	182.6	165.4	131.0
24272.4	70°	13172.7	1452.2	165.4	141.8	126.7	116.0	133.2	156.8	139.6	105.3
20663.5	72.5°	10691.6	885.1	124.6	103.1	92.4	75.2	105.3	128.9	111.7	77.3
14369.3	75°	6917.2	451.1	85.9	66.6	49.4	45.1	77.3	96.7	77.3	47.3
6375.8	77.5°	2646.6	189.0	47.3	30.1	25.8	21.5	43.0	58.0	32.2	10.7
1235.2	80°	509.1	79.5	23.6	15.0	12.9	8.6	6.4	4.3	0.0	0.0
219.1	82.5°	88.1	25.8	8.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0
43.0	85°	30.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15.0	87.5°	10.7	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

180°
3989.2
2421.0
1417.8
1153.6
1065.5
983.9
906.5
835.6
766.9
700.3
633.7
580.0
534.9
500.5
468.3
442.5
408.2
380.2
360.9
341.6
328.7
317.9
305.0
290.0
264.2
214.8
150.4
126.7
101.0
73.0
40.8
8.6
0.0
0.0
0.0
0.0
0.0

F REPORT)