

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: P942897

Luminaire Tested: **GALN-SB7A-840-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7A-840-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30535 lumens
Efficiency: N/A
Efficacy: 153.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

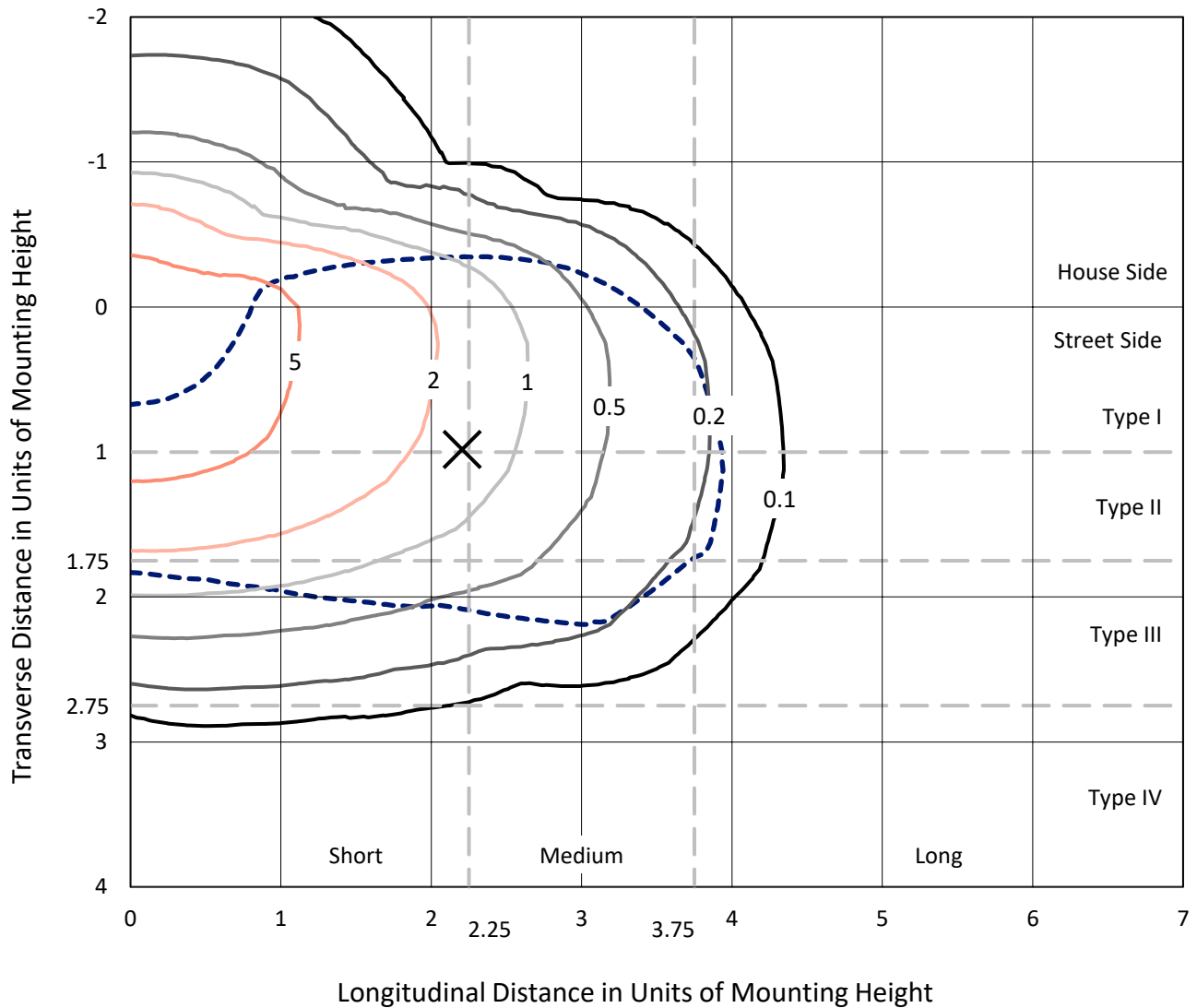
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P942897
 CATALOG NUMBER: GALN-SB7A-840-U-T3

Iso-Footcandle Lines of Horizontal Illumination

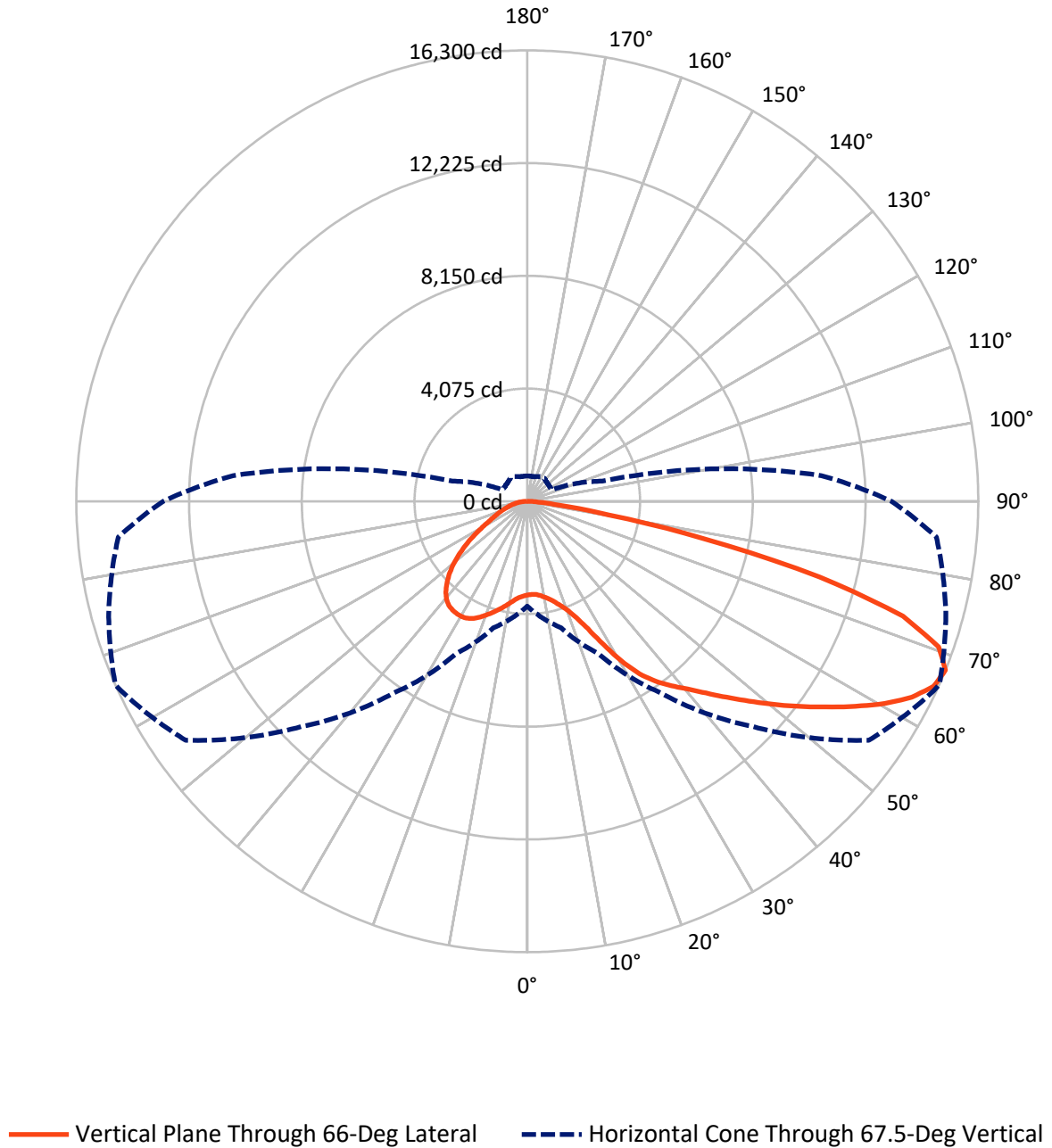
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Short - N/A

REPORT NUMBER: P942897
CATALOG NUMBER: GALN-SB7A-840-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P942897

CATALOG NUMBER: GALN-SB7A-840-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7592.4	0.0	7592.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	22942.6	0.0	22942.6
	% Fixture	75.1	0.0	75.1
Total	Lumens	30535.0	0.0	30535.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.8	1.1
10°-20°	1109.4	3.6
20°-30°	2138.3	7.0
30°-40°	3749.2	12.3
40°-50°	5573.8	18.3
50°-60°	7065.3	23.1
60°-70°	6913.2	22.6
70°-80°	3297.7	10.8
80°-90°	352.4	1.2
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°	30535.0	100.0
0°-180°	30535.0	100.0

Coefficient of Utilization



REPORT NUMBER: P942897

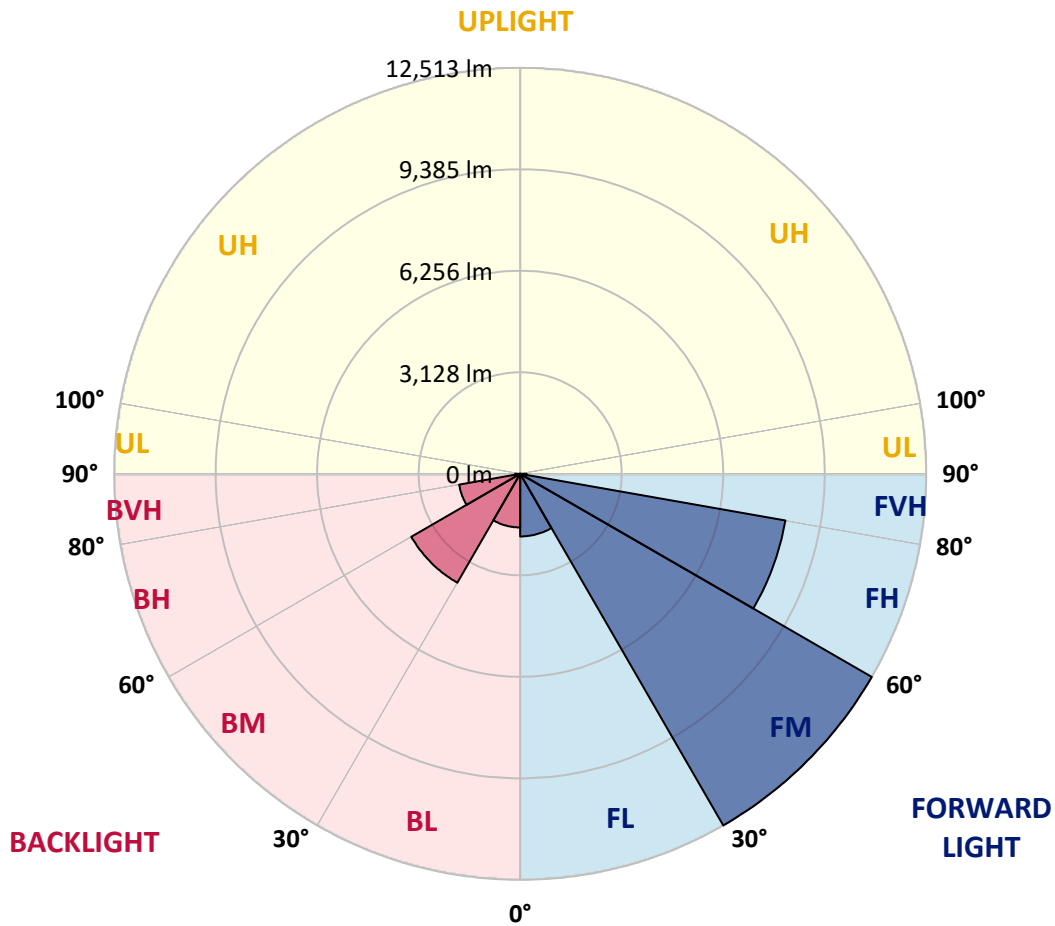
CATALOG NUMBER: GALN-SB7A-840-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1929.5	6.3			
FM (30°-60°)	12513.0	41.0			
FH (60°-80°)	8300.3	27.2			G4/12000
FVH (80°-90°)	199.8	0.7			G2/225
BL (0°-30°)	1653.9	5.4	B3/2500		
BM (30°-60°)	3875.3	12.7	B3/5000		
BH (60°-80°)	1910.7	6.3	B3/2500		G3/2500
BVH (80°-90°)	152.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



REPORT NUMBER: P942897

CATALOG NUMBER: GALN-SB7A-840-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	3386.7	3386.7	3386.7	3386.7	3386.7	3386.7	3386.7	3386.7	3386.7	3386.7
2.5°	3351.4	3370.7	3365.9	3357.9	3356.3	3359.5	3364.3	3369.1	3367.5	3375.5
5°	3341.8	3361.1	3359.5	3359.5	3365.9	3378.7	3386.7	3394.8	3386.7	3396.4
7.5°	3348.2	3362.7	3369.1	3375.5	3391.5	3415.6	3434.9	3452.5	3442.9	3454.1
10°	3430.1	3441.3	3447.7	3447.7	3458.9	3486.2	3505.5	3537.5	3529.5	3547.2
12.5°	3579.3	3590.5	3590.5	3584.1	3592.1	3609.7	3616.2	3651.4	3637.0	3665.9
15°	3762.1	3784.6	3767.0	3755.7	3758.9	3776.6	3775.0	3802.3	3787.8	3811.9
17.5°	3964.3	3993.2	3964.3	3962.7	3956.3	3975.5	3977.1	4001.2	3975.5	3993.2
20°	4203.3	4243.4	4219.4	4227.4	4213.0	4221.0	4229.0	4264.3	4224.2	4237.0
22.5°	4540.2	4588.4	4562.7	4593.2	4583.6	4577.1	4575.5	4638.1	4575.5	4580.4
25°	5031.2	5088.9	5044.0	5085.7	5085.7	5106.6	5130.6	5210.9	5106.6	5076.1
27.5°	5756.3	5814.1	5725.8	5751.5	5743.5	5794.8	5769.2	5968.1	5855.8	5806.1
30°	6629.1	6731.8	6564.9	6558.5	6550.5	6632.3	6669.2	6800.7	6686.8	6637.1
32.5°	7572.4	7679.9	7481.0	7423.2	7392.7	7442.5	7412.0	7517.9	7439.3	7362.3
35°	8570.3	8676.2	8486.9	8374.6	8252.7	8148.4	8039.3	8066.6	7992.8	7875.6
37.5°	9513.7	9707.8	9507.2	9386.9	9162.3	8958.6	8653.7	8527.0	8458.0	8350.5
40°	10474.7	10585.4	10432.9	10330.3	10086.4	9767.1	9279.4	9011.5	8918.5	8814.2
42.5°	11182.2	11288.0	11206.2	11135.6	10944.7	10574.1	9943.6	9608.3	9473.6	9356.4
45°	11743.7	11822.3	11770.9	11796.6	11714.8	11355.4	10631.9	10248.4	10108.9	9966.1
47.5°	11969.9	12053.3	12135.1	12287.5	12427.1	12162.4	11371.5	10941.5	10793.9	10647.9
50°	11944.2	12029.2	12266.7	12590.8	13023.9	12935.7	12151.2	11679.5	11543.1	11376.3
52.5°	11738.9	11835.1	12139.9	12679.0	13368.9	13514.9	12945.3	12441.6	12313.2	12114.3
55°	11199.8	11257.6	11714.8	12478.5	13450.7	13919.1	13723.4	13253.3	13125.0	12847.5
57.5°	10200.3	10283.7	10949.5	11937.8	13245.3	14193.5	14406.9	14106.9	13983.3	13583.8
60°	8896.0	9029.2	9791.2	11029.8	12722.3	14191.9	15027.7	14945.9	14843.2	14309.0
62.5°	7420.0	7574.0	8307.2	9746.3	11807.8	13789.2	15416.0	15648.6	15595.7	14978.0
65°	5698.6	5804.5	6534.4	8085.8	10384.8	12924.5	15460.9	16128.3	16137.9	15486.6
67.5°	3794.2	4099.1	4732.8	6067.6	8478.9	11511.0	15066.2	16206.9	16300.0	15661.4
70°	1851.4	2252.5	2873.4	3943.4	6067.6	9343.6	14034.7	15562.0	15768.9	15151.3
72.5°	768.5	898.4	1236.9	1946.0	3483.0	6305.0	11961.9	13813.3	14196.7	13425.0
75°	518.2	561.5	707.5	997.9	1586.7	3109.2	8626.5	10299.8	10917.4	10139.3
77.5°	399.5	426.8	515.0	697.9	943.3	1176.0	4617.3	6207.1	6526.4	6041.9
80°	314.4	335.3	385.0	508.6	669.0	628.9	1573.8	2812.4	2996.9	2514.0
82.5°	272.7	280.8	275.9	344.9	444.4	367.4	516.6	1038.0	1145.5	831.0
85°	197.3	219.8	229.4	213.4	235.8	186.1	211.8	367.4	404.3	361.0
87.5°	80.2	118.7	146.0	138.0	86.6	52.9	65.8	107.5	123.5	134.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P942897
 CATALOG NUMBER: GALN-SB7A-840-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3386.7	0°	3386.7	3386.7	3386.7	3386.7	3386.7	3386.7	3386.7	3386.7	3386.7	3386.7
3388.3	2.5°	3389.9	3401.2	3409.2	3418.8	3425.2	3434.9	3454.1	3465.3	3467.0	3475.0
3414.0	5°	3420.4	3436.5	3454.1	3479.8	3508.7	3532.7	3569.6	3595.3	3604.9	3612.9
3476.6	7.5°	3486.2	3508.7	3540.8	3585.7	3627.4	3659.5	3704.4	3734.9	3765.4	3776.6
3576.0	10°	3584.1	3616.2	3662.7	3723.6	3768.6	3810.3	3856.8	3882.5	3913.0	3925.8
3694.8	12.5°	3706.0	3739.7	3800.7	3885.7	3927.4	3956.3	3972.3	3965.9	3972.3	3983.5
3837.6	15°	3845.6	3882.5	3951.5	4042.9	4071.8	4046.1	4010.8	3978.7	3973.9	3977.1
4010.8	17.5°	4010.8	4038.1	4118.3	4195.3	4174.5	4068.6	3991.6	3940.2	3914.6	3906.5
4232.2	20°	4241.8	4241.8	4307.6	4355.7	4216.2	4036.5	3916.2	3832.7	3779.8	3757.3
4533.8	22.5°	4522.6	4496.9	4538.6	4505.0	4208.2	3946.6	3779.8	3635.4	3555.2	3523.1
4955.8	25°	4878.8	4848.3	4837.0	4628.5	4150.4	3803.9	3532.7	3357.9	3287.3	3269.6
5563.8	27.5°	5416.2	5339.2	5193.2	4695.9	4044.5	3579.3	3243.9	3081.9	3041.8	3043.4
6345.1	30°	6131.7	5977.7	5620.0	4707.1	3871.2	3261.6	2948.8	2833.2	2814.0	2822.0
7001.3	32.5°	6794.3	6648.3	6056.3	4655.8	3604.9	2950.4	2684.0	2607.0	2578.2	2587.8
7501.8	35°	7314.1	7274.0	6460.6	4583.6	3277.6	2658.4	2446.6	2380.8	2324.7	2311.8
7973.5	37.5°	7805.1	7789.0	6763.8	4482.5	2953.6	2451.4	2255.7	2169.1	2087.2	2042.3
8494.9	40°	8344.1	8328.1	6962.8	4326.9	2666.4	2271.7	2084.0	1970.1	1869.0	1787.2
9085.3	42.5°	8950.5	8855.9	7057.4	4103.9	2422.5	2119.3	1944.4	1790.4	1657.3	1581.9
9752.7	45°	9613.1	9399.8	7055.8	3819.9	2217.2	1979.7	1795.2	1577.1	1453.5	1382.9
10437.8	47.5°	10315.8	9919.6	6969.2	3505.5	2018.2	1825.7	1564.2	1397.4	1315.5	1272.2
11182.2	50°	11041.0	10405.7	6821.6	3144.5	1814.5	1650.9	1419.8	1305.9	1243.4	1203.2
11920.2	52.5°	11722.8	10846.9	6643.5	2735.4	1607.5	1480.8	1355.7	1267.4	1201.6	1156.7
12635.7	55°	12356.5	11227.1	6391.6	2316.6	1439.1	1366.9	1325.2	1251.4	1176.0	1123.0
13362.4	57.5°	12919.6	11474.1	5956.9	1923.6	1318.8	1288.3	1293.1	1224.1	1137.5	1092.5
14078.0	60°	13388.1	11655.4	5313.5	1559.4	1220.9	1211.3	1243.4	1172.8	1071.7	1020.4
14682.8	62.5°	13668.9	11652.2	4524.2	1277.0	1137.5	1140.7	1177.6	1108.6	1005.9	957.8
14998.9	65°	13644.8	11366.7	3657.9	1092.5	1057.3	1060.5	1108.6	1038.0	951.4	922.5
14840.0	67.5°	13161.9	10670.4	2806.0	972.2	969.0	983.5	1039.6	989.9	917.7	914.5
13893.5	70°	11854.4	9224.9	2021.5	876.0	877.6	898.4	972.2	959.4	900.0	906.4
11681.1	72.5°	9505.6	7033.4	1357.3	774.9	776.5	810.2	908.0	935.3	882.4	967.4
8288.0	75°	6330.7	4386.2	872.8	667.4	669.0	712.3	851.9	888.8	834.3	964.2
4312.4	77.5°	3041.8	1971.7	632.1	561.5	561.5	601.6	736.4	795.7	710.7	749.2
1386.1	80°	1050.8	741.2	497.3	452.4	442.8	470.1	620.9	689.9	612.9	564.7
452.4	82.5°	413.9	385.0	399.5	351.3	319.3	336.9	482.9	569.5	450.8	407.5
255.1	85°	237.4	250.3	282.4	232.6	184.5	207.0	354.6	409.1	340.1	300.0
83.4	87.5°	64.2	88.2	130.0	120.3	83.4	88.2	168.5	226.2	195.7	150.8
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>
3386.7
3473.4
3611.3
3778.2
3932.2
3986.8
3988.4
3917.8
3752.5
3518.3
3272.8
3048.2
2849.3
2600.6
2321.5
2043.9
1795.2
1586.7
1379.7
1262.6
1188.8
1137.5
1102.2
1063.7
997.9
943.3
920.9
919.3
904.8
980.2
972.2
686.7
529.4
405.9
306.4
155.6
0.0

F REPORT)