

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: P953942

Luminaire Tested: **GALN-SB7B-830-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953942
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27718 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

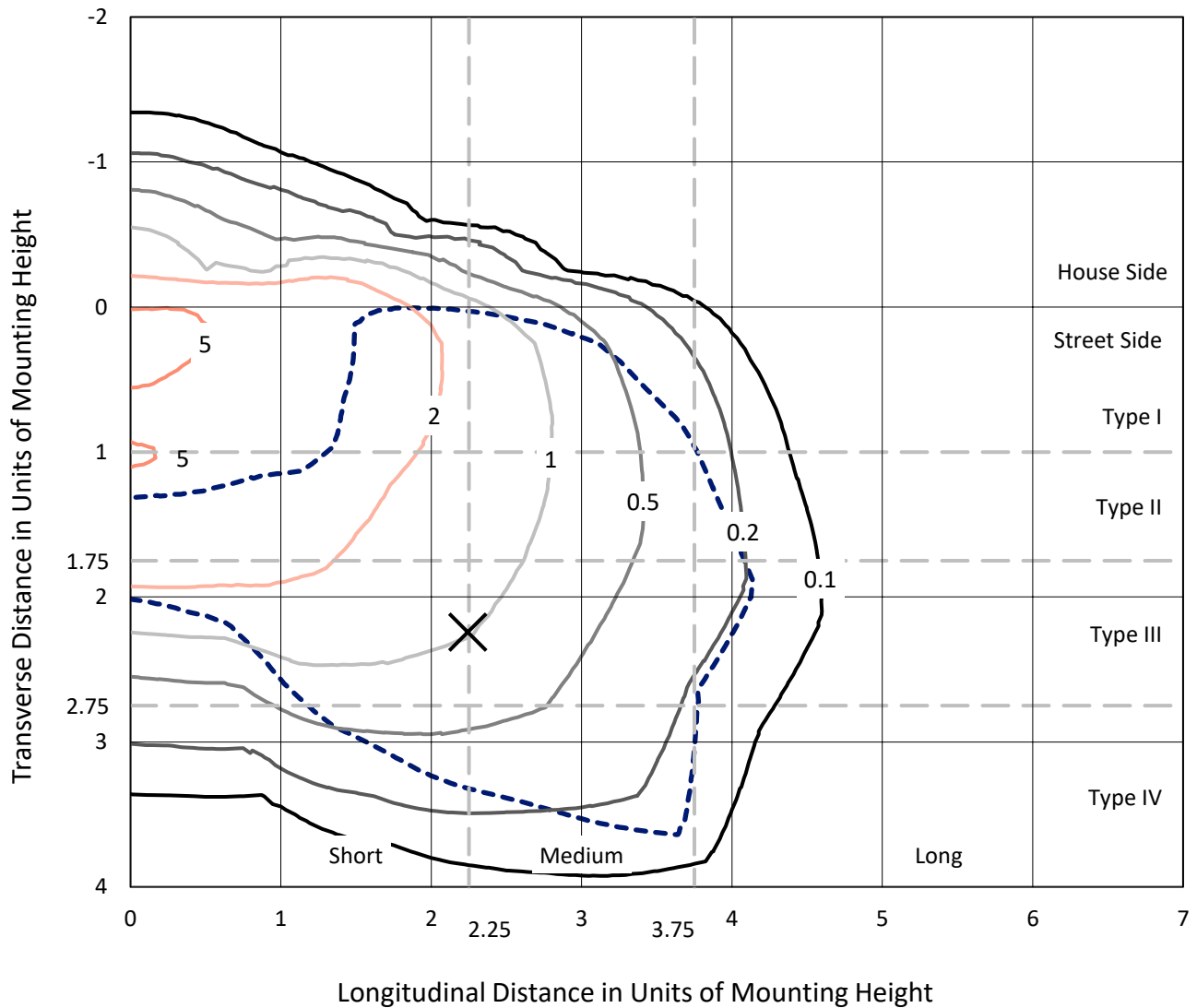
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P953942
 CATALOG NUMBER: GALN-SB7B-830-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

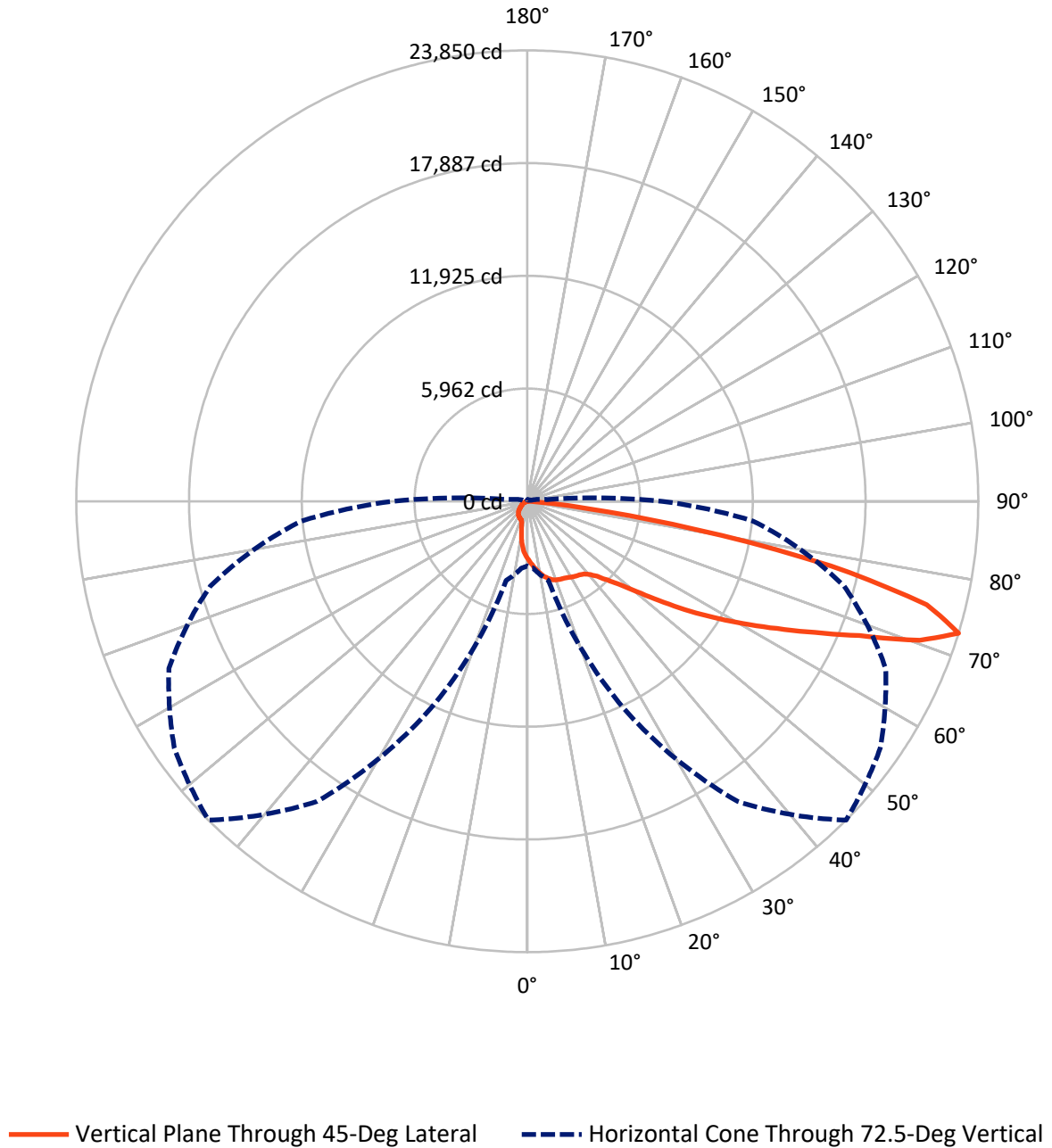
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P953942
CATALOG NUMBER: GALN-SB7B-830-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P953942
 CATALOG NUMBER: GALN-SB7B-830-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2912.4	0.0	2912.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	24805.6	0.0	24805.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	27718.0	0.0	27718.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.1	1.0
10°-20°	836.2	3.0
20°-30°	1373.1	5.0
30°-40°	1947.4	7.0
40°-50°	3218.8	11.6
50°-60°	5782.3	20.9
60°-70°	8029.0	29.0
70°-80°	5824.0	21.0
80°-90°	421.1	1.5
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°	27718.0	100.0
0°-180°	27718.0	100.0

Coefficient of Utilization



REPORT NUMBER: P953942

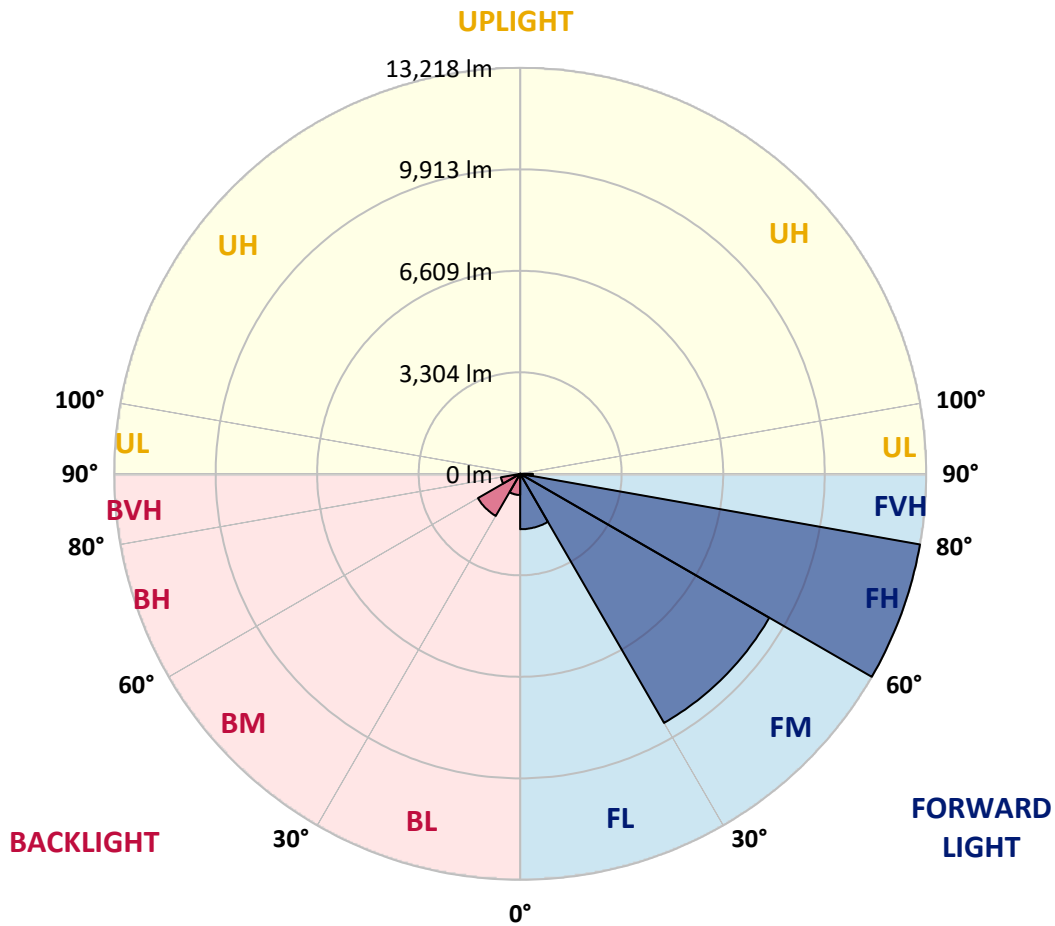
CATALOG NUMBER: GALN-SB7B-830-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1805.6	6.5			
FM (30°-60°)	9364.6	33.8			
FH (60°-80°)	13217.9	47.7			G5
FVH (80°-90°)	417.5	1.5			G3/500
BL (0°-30°)	689.8	2.5	B2/1000		
BM (30°-60°)	1583.9	5.7	B2/2500		
BH (60°-80°)	635.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	3.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short



REPORT NUMBER: P953942

CATALOG NUMBER: GALN-SB7B-830-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	3036.6	3036.6	3036.6	3036.6	3036.6	3036.6	3036.6	3036.6	3036.6	3036.6
2.5°	3316.6	3322.2	3318.5	3295.8	3257.9	3237.1	3225.8	3187.9	3163.3	3119.8
5°	3621.2	3643.9	3630.6	3585.2	3513.3	3462.3	3447.1	3369.5	3299.5	3218.2
7.5°	3944.7	3956.0	3931.5	3872.8	3776.3	3689.3	3676.0	3568.2	3456.6	3331.7
10°	4224.7	4237.9	4200.1	4115.0	4005.2	3897.4	3878.5	3759.3	3626.9	3473.6
12.5°	4459.3	4472.5	4423.4	4321.2	4200.1	4088.5	4069.6	3944.7	3799.0	3628.7
15°	4637.1	4661.7	4595.5	4485.8	4355.2	4243.6	4234.2	4111.2	3969.3	3780.1
17.5°	4741.2	4765.8	4703.4	4570.9	4459.3	4364.7	4353.4	4251.2	4118.8	3937.1
20°	4758.2	4780.9	4714.7	4599.3	4506.6	4430.9	4425.3	4351.5	4255.0	4080.9
22.5°	4707.2	4735.5	4675.0	4582.3	4518.0	4478.2	4470.7	4429.0	4374.2	4226.6
25°	4654.2	4676.9	4631.5	4550.1	4516.1	4512.3	4518.0	4510.4	4499.0	4374.2
27.5°	4650.4	4675.0	4623.9	4546.3	4527.4	4567.1	4572.8	4608.8	4618.2	4508.5
30°	4682.6	4699.6	4650.4	4569.0	4559.6	4650.4	4652.3	4716.6	4731.7	4622.0
32.5°	4752.6	4771.5	4722.3	4603.1	4589.8	4716.6	4722.3	4807.4	4832.0	4743.1
35°	4917.2	4939.9	4883.1	4697.7	4650.4	4779.0	4796.1	4896.3	4945.5	4871.7
37.5°	5327.7	5261.5	5183.9	4888.8	4788.5	4877.4	4905.8	5023.1	5110.1	5025.0
40°	6347.5	6139.3	5897.2	5214.2	5030.7	5087.4	5110.1	5227.4	5346.6	5263.4
42.5°	7878.0	7632.1	7242.4	5963.4	5395.8	5424.2	5441.2	5543.4	5711.8	5645.6
45°	9242.1	9153.2	8755.9	7242.4	6078.8	5938.8	5959.6	6012.6	6260.4	6235.8
47.5°	10290.3	10239.2	9932.7	8710.5	7232.9	6568.8	6627.5	6652.1	7009.6	7096.7
50°	11096.2	11077.3	10803.0	10015.9	8740.8	7497.8	7518.6	7465.6	8001.0	8216.7
52.5°	11856.8	11921.1	11718.7	11228.7	10350.8	8714.3	8710.5	8460.8	9183.5	9508.9
55°	12543.6	12566.3	12587.1	12466.0	11970.3	10099.2	10063.2	9654.6	10555.1	10891.9
57.5°	13188.7	13198.2	13383.6	13631.4	13656.0	11586.2	11520.0	11030.0	12053.6	12293.8
60°	13622.0	13665.5	14057.1	14745.8	15046.6	13120.6	13084.7	12585.2	13578.5	13690.1
62.5°	12997.6	13262.5	14250.1	15616.1	16359.6	14821.5	14804.4	14335.2	15182.8	15092.0
65°	10521.1	10969.5	12706.3	16204.5	17648.0	16721.0	16745.6	16246.1	16830.7	16535.6
67.5°	7359.7	7832.6	9887.3	16251.8	19087.8	18951.6	19093.5	18310.2	18580.8	17918.6
70°	5089.3	5333.4	6671.0	15233.9	20209.7	22024.1	22020.3	20845.4	20321.3	18548.6
72.5°	3422.5	3549.3	4332.5	12085.7	19384.8	23849.8	23740.1	22782.8	20907.8	17347.2
75°	1443.6	1536.3	2005.5	6792.1	15336.1	21819.8	21522.7	20134.0	18577.0	13659.8
77.5°	457.8	497.6	790.8	2431.1	8447.5	16401.2	16087.2	12573.8	12450.9	6852.6
80°	217.6	253.5	444.6	976.2	3324.1	8920.5	8877.0	5704.2	5356.1	1850.3
82.5°	94.6	111.6	246.0	522.2	1487.1	3182.2	3246.6	1941.1	1606.3	701.9
85°	30.3	39.7	113.5	240.3	628.1	790.8	781.4	461.6	647.0	382.2
87.5°	0.0	0.0	37.8	54.9	64.3	45.4	51.1	39.7	179.7	105.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P953942
 CATALOG NUMBER: GALN-SB7B-830-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3036.6	0°	3036.6	3036.6	3036.6	3036.6	3036.6	3036.6	3036.6	3036.6	3036.6	3036.6
3074.4	2.5°	3051.7	3021.4	2968.5	2919.3	2875.8	2832.2	2805.7	2767.9	2764.1	2764.1
3123.6	5°	3072.5	3023.3	2928.7	2828.5	2713.0	2603.3	2493.6	2387.6	2353.6	2329.0
3203.1	7.5°	3133.1	3055.5	2906.0	2714.9	2495.5	2255.2	2086.8	1905.2	1835.2	1797.3
3309.0	10°	3220.1	3114.1	2887.1	2552.2	2196.5	1869.2	1629.0	1432.2	1356.5	1324.4
3424.4	12.5°	3316.6	3186.0	2853.0	2349.8	1869.2	1477.6	1243.0	1152.2	1140.8	1140.8
3562.5	15°	3432.0	3273.1	2794.4	2111.4	1526.8	1169.2	1086.0	1089.8	1101.1	1108.7
3696.9	17.5°	3551.2	3365.8	2701.7	1844.6	1224.1	1051.9	1053.8	1059.5	1068.9	1076.5
3842.5	20°	3679.8	3458.5	2578.7	1560.9	1050.0	1017.9	1023.5	1029.2	1036.8	1040.6
3978.8	22.5°	3817.9	3545.5	2433.0	1282.7	991.4	989.5	991.4	997.1	1006.5	1006.5
4137.7	25°	3965.5	3642.0	2266.5	1080.3	961.1	961.1	964.9	968.7	976.2	976.2
4290.9	27.5°	4116.9	3730.9	2090.6	974.3	934.6	932.7	932.7	938.4	942.2	944.1
4442.3	30°	4283.4	3835.0	1914.6	951.6	913.8	904.3	898.7	902.5	906.2	908.1
4601.2	32.5°	4453.6	3935.2	1757.6	961.1	893.0	876.0	857.0	853.3	853.3	860.8
4765.8	35°	4642.8	4045.0	1636.5	993.3	881.6	834.3	804.1	787.0	788.9	800.3
4962.6	37.5°	4869.9	4177.4	1547.6	1021.6	874.1	787.0	737.9	717.0	703.8	717.0
5233.1	40°	5166.9	4372.3	1483.3	1044.4	864.6	732.2	666.0	631.9	607.3	614.9
5653.1	42.5°	5603.9	4678.8	1458.7	1046.2	843.8	667.9	592.2	546.8	510.8	512.7
6285.0	45°	6216.9	5163.1	1585.4	1021.6	798.4	597.9	514.6	454.1	431.4	425.7
7229.1	47.5°	7056.9	5868.8	1878.7	970.6	732.2	529.7	438.9	387.8	370.8	361.4
8468.3	50°	8182.6	6775.0	2204.1	913.8	666.0	465.4	376.5	344.3	333.0	323.5
9938.4	52.5°	9488.1	7694.5	2470.9	857.0	599.7	408.7	336.8	317.8	308.4	300.8
11357.3	55°	10685.7	8328.3	2455.7	796.5	535.4	363.3	308.4	297.0	285.7	278.1
12579.5	57.5°	11431.1	8417.2	2024.4	730.3	461.6	327.3	281.9	274.3	261.1	251.6
13637.1	60°	11773.6	7910.2	1419.0	643.3	387.8	293.3	253.5	249.7	232.7	219.5
14638.0	62.5°	11836.0	6968.0	946.0	535.4	323.5	261.1	225.1	219.5	196.8	174.1
15451.5	65°	11582.5	5621.0	654.6	418.1	276.2	227.0	193.0	181.6	157.0	134.3
15644.5	67.5°	10780.3	3946.6	456.0	300.8	234.6	179.7	153.2	149.5	130.5	111.6
14660.7	70°	9310.2	2249.5	304.6	225.1	185.4	123.0	121.1	124.9	105.9	90.8
11977.9	72.5°	7138.3	1029.2	189.2	164.6	126.8	83.2	96.5	98.4	81.4	68.1
7473.2	75°	4202.0	440.8	119.2	105.9	64.3	54.9	70.0	71.9	54.9	43.5
2732.0	77.5°	1430.3	166.5	75.7	62.4	32.2	30.3	45.4	45.4	30.3	17.0
548.7	80°	325.4	62.4	37.8	24.6	15.1	13.2	15.1	13.2	7.6	1.9
168.4	82.5°	92.7	24.6	15.1	9.5	5.7	5.7	1.9	0.0	0.0	0.0
58.7	85°	26.5	11.4	3.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0
20.8	87.5°	11.4	1.9	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>
3036.6
2773.6
2340.3
1803.0
1324.4
1140.8
1108.7
1076.5
1042.5
1010.3
978.1
946.0
911.9
866.5
806.0
713.3
611.1
505.1
418.1
355.7
321.6
298.9
274.3
249.7
215.7
162.7
126.8
105.9
83.2
60.5
37.8
13.2
0.0
0.0
0.0
0.0
0.0

F REPORT)