

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: P943794

Luminaire Tested: **GALN-SB8B-940-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943794
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-940-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24094 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

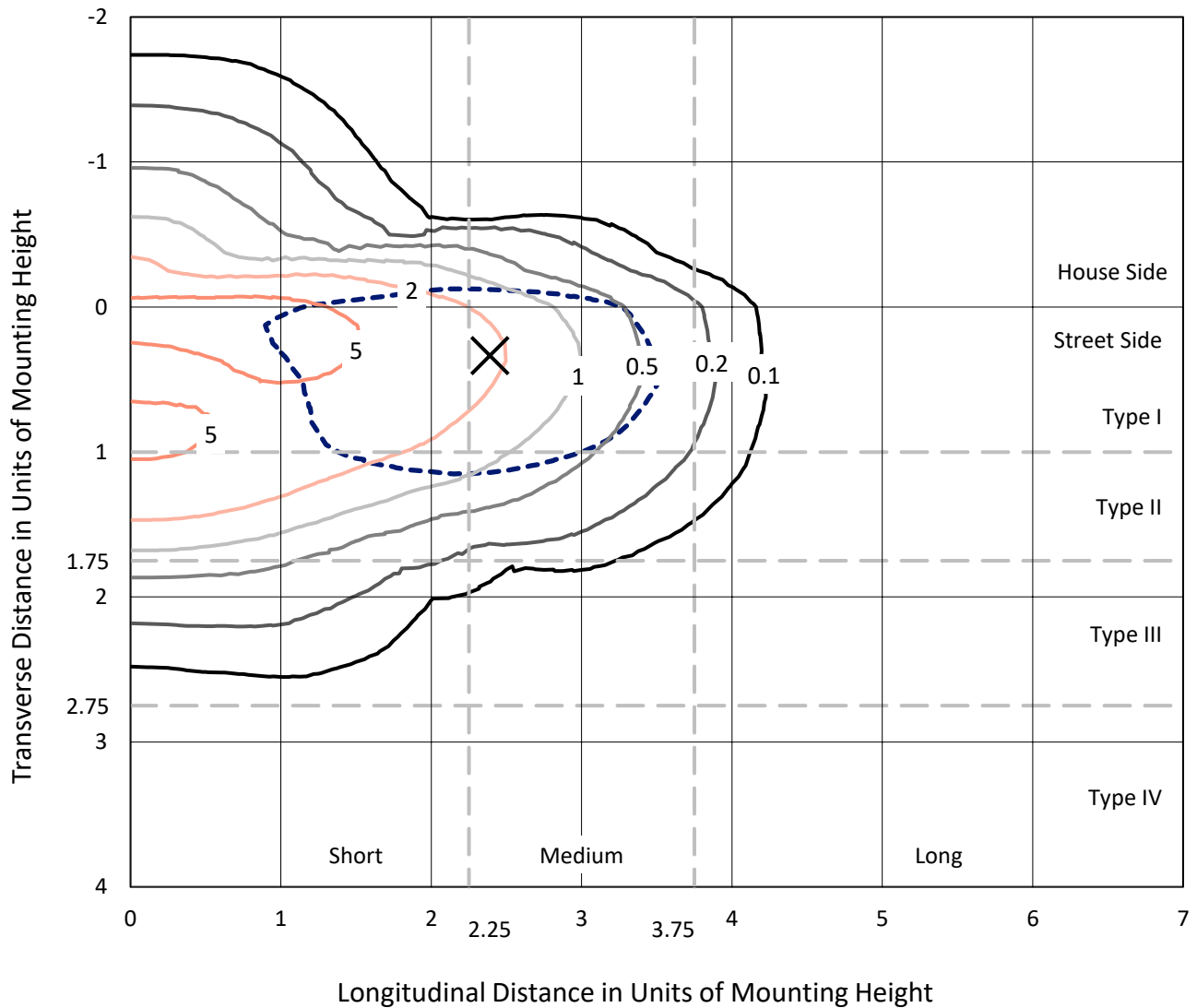
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943794
 CATALOG NUMBER: GALN-SB8B-940-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

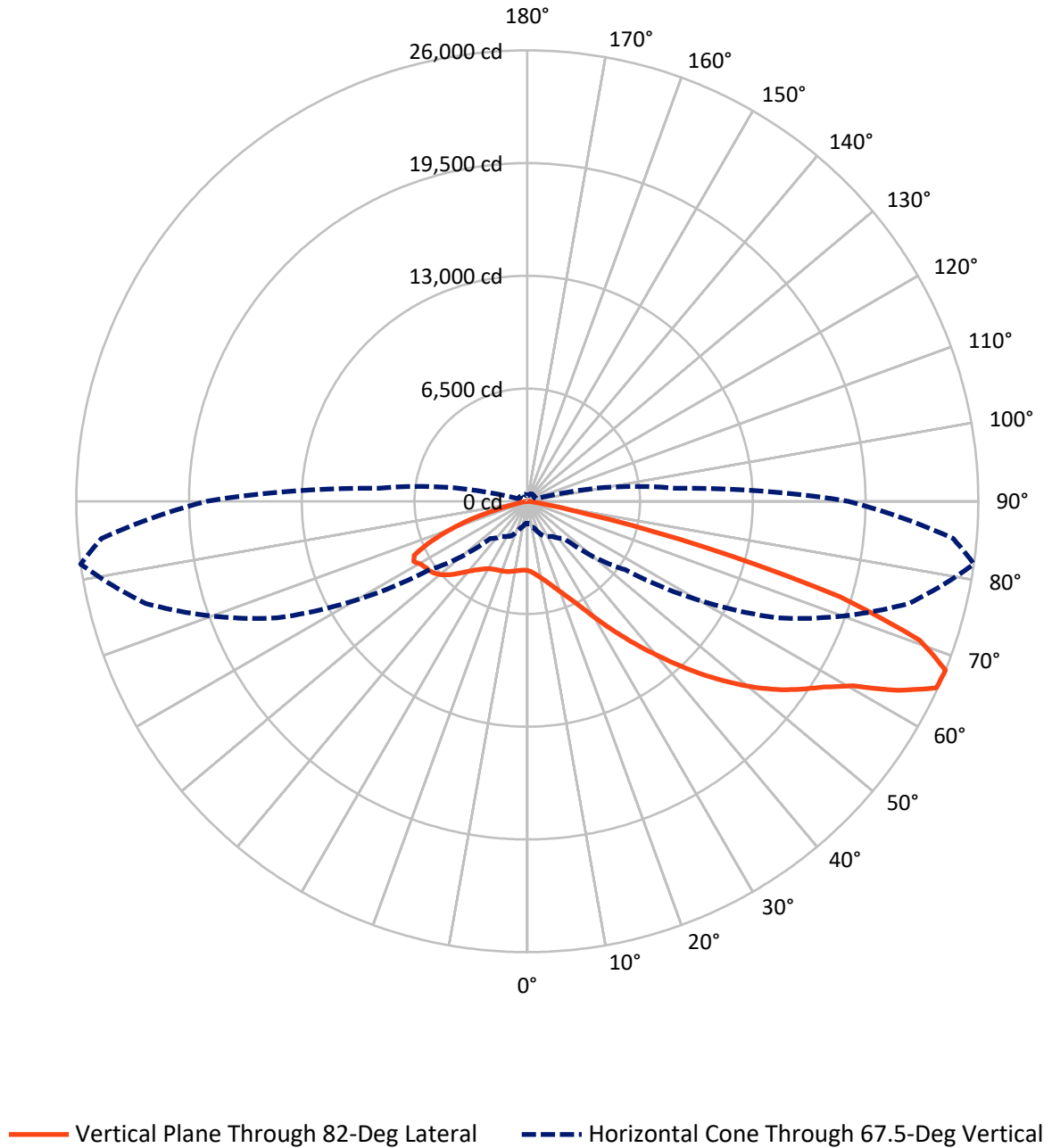
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Medium - N/A

REPORT NUMBER: P943794
CATALOG NUMBER: GALN-SB8B-940-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P943794

CATALOG NUMBER: GALN-SB8B-940-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4364.4	0.0	4364.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	19729.6	0.0	19729.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	24094.0	0.0	24094.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.6	1.5
10°-20°	924.1	3.8
20°-30°	1480.1	6.1
30°-40°	2617.3	10.9
40°-50°	4585.8	19.0
50°-60°	6116.2	25.4
60°-70°	5693.8	23.6
70°-80°	2185.3	9.1
80°-90°	135.7	0.6
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°	24094.0	100.0
0°-180°	24094.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943794

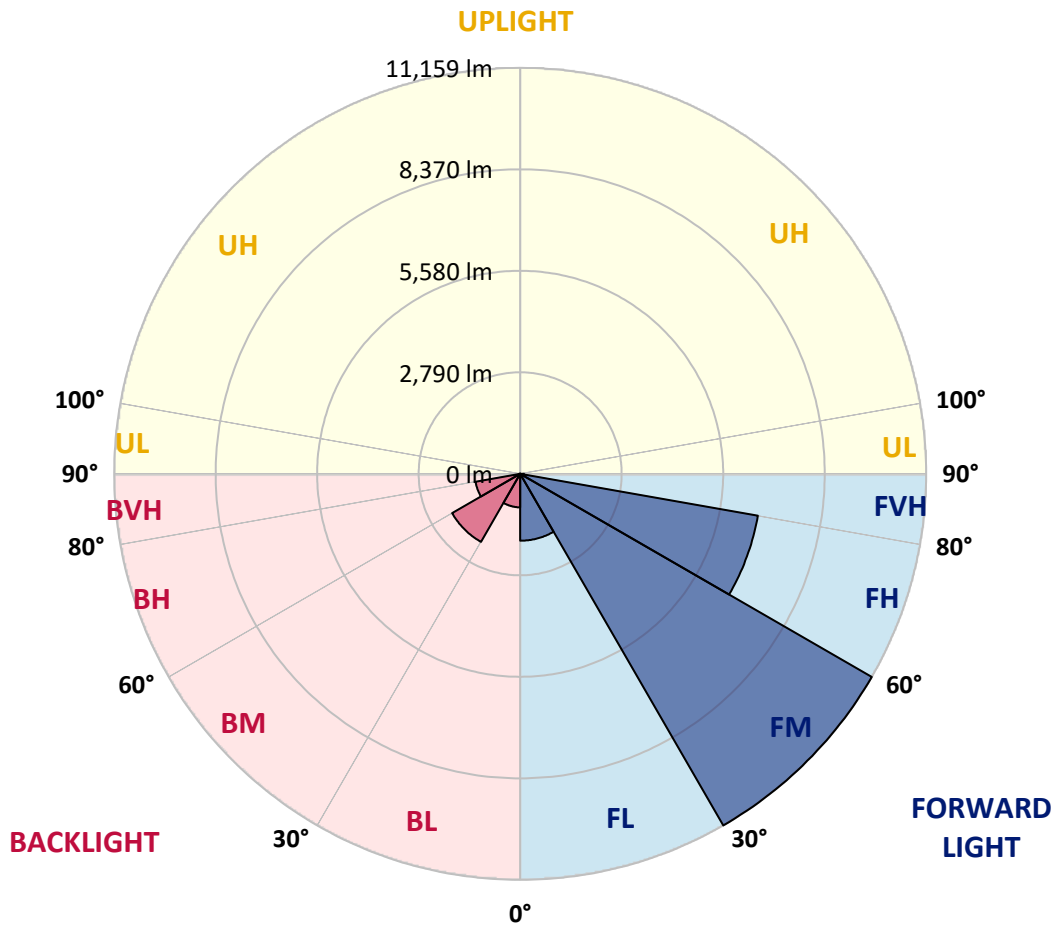
CATALOG NUMBER: GALN-SB8B-940-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1838.1	7.6			
FM	(30°-60°)	11159.4	46.3			
FH	(60°-80°)	6633.4	27.5			G3/7500
FVH	(80°-90°)	98.7	0.4			G1/100
BL	(0°-30°)	921.8	3.8	B2/1000		
BM	(30°-60°)	2159.9	9.0	B2/2500		
BH	(60°-80°)	1245.7	5.2	B3/2500		G3/2500
BVH	(80°-90°)	37.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



REPORT NUMBER: P943794

CATALOG NUMBER: GALN-SB8B-940-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3991.6	3991.6	3991.6	3991.6	3991.6	3991.6	3991.6	3991.6	3991.6	3991.6
2.5°	4218.8	4243.1	4229.2	4222.3	4210.1	4192.8	4178.9	4135.5	4090.4	4060.9
5°	4303.8	4328.1	4326.4	4333.3	4342.0	4347.2	4343.7	4295.1	4230.9	4180.6
7.5°	4230.9	4258.7	4281.3	4316.0	4376.7	4440.8	4472.1	4461.7	4395.7	4326.4
10°	4024.5	4054.0	4107.8	4189.3	4317.7	4456.5	4572.7	4626.5	4584.8	4508.5
12.5°	3646.4	3675.8	3781.7	3958.6	4173.7	4414.8	4636.9	4780.9	4791.3	4714.9
15°	3221.4	3250.8	3363.6	3585.6	3913.5	4300.3	4671.6	4943.9	5035.9	4969.9
17.5°	2957.7	2983.7	3068.7	3247.4	3589.1	4071.4	4659.4	5117.4	5327.3	5275.2
20°	2877.9	2900.4	2940.3	3065.2	3349.7	3833.7	4579.6	5280.4	5641.3	5611.8
22.5°	2962.9	2983.7	2995.8	3051.3	3230.0	3677.6	4479.0	5447.0	6005.6	6009.0
25°	3158.9	3179.7	3165.8	3200.5	3278.6	3629.0	4440.8	5643.0	6463.5	6501.7
27.5°	3481.6	3483.3	3450.3	3448.6	3460.7	3701.9	4480.7	5852.9	7041.2	7112.3
30°	4128.6	4102.6	3975.9	3838.9	3776.5	3920.4	4591.8	6101.0	7722.9	7849.5
32.5°	5126.1	5087.9	4855.4	4527.6	4198.0	4272.6	4791.3	6383.7	8465.4	8694.4
35°	6208.5	6198.1	5955.2	5467.8	4891.9	4773.9	5115.7	6754.9	9275.5	9639.8
37.5°	7214.6	7209.4	7070.7	6496.5	5795.7	5473.0	5636.1	7240.7	10142.8	10670.2
40°	8134.0	8149.7	8010.9	7497.4	6791.4	6369.8	6343.8	7840.9	11107.3	11792.5
42.5°	8928.5	8945.9	8805.4	8425.5	7775.0	7362.1	7212.9	8576.4	12049.3	12998.2
45°	9468.0	9575.6	9554.8	9251.2	8784.6	8356.1	8257.2	9499.3	13123.1	14276.6
47.5°	9620.7	9719.6	9875.7	9917.3	9632.8	9211.3	9329.3	10611.2	14209.0	15556.9
50°	9244.3	9336.2	9660.6	10092.5	10290.3	10160.2	10371.8	11802.9	15320.9	16833.6
52.5°	8501.8	8595.5	9004.9	9688.3	10495.0	10904.4	11417.8	12977.3	16398.2	18042.7
55°	7428.0	7526.9	8052.5	8826.2	10104.7	11211.4	12290.4	14150.0	17385.2	19130.3
57.5°	5967.4	6040.2	6586.7	7669.1	9122.8	10906.1	12934.0	15430.2	18315.0	20198.9
60°	3889.2	3953.4	4588.3	5795.7	7495.7	9886.1	13062.3	16857.9	19550.1	21588.4
62.5°	2586.4	2629.8	3006.2	3892.7	5278.7	7927.6	12311.2	17997.6	21361.2	24006.6
65°	1774.6	1818.0	2194.4	2812.0	3410.4	5244.0	10151.5	17846.7	23002.2	25926.9
67.5°	1266.3	1302.8	1622.0	2204.8	2468.5	3046.1	6881.6	15917.7	22766.3	25999.8
70°	907.3	928.1	1191.7	1717.4	1962.0	1830.1	3826.8	12174.2	19933.5	24008.3
72.5°	634.9	641.8	827.5	1308.0	1580.3	1335.7	1821.4	8116.7	15076.3	18844.1
75°	430.2	438.9	556.8	959.3	1268.1	1020.0	964.5	4352.4	8850.5	10430.8
77.5°	263.7	267.1	359.1	655.7	948.9	777.1	621.0	1844.0	3424.3	3361.9
80°	149.2	149.2	229.0	407.7	647.0	501.3	435.4	784.1	1084.2	952.4
82.5°	83.3	85.0	166.5	253.3	428.5	296.6	239.4	362.6	468.4	414.6
85°	34.7	38.2	102.3	119.7	204.7	147.5	97.1	152.7	173.5	154.4
87.5°	3.5	5.2	31.2	22.6	24.3	29.5	13.9	29.5	24.3	24.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943794
 CATALOG NUMBER: GALN-SB8B-940-U-T2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3991.6	0°	3991.6	3991.6	3991.6	3991.6	3991.6	3991.6	3991.6	3991.6	3991.6	3991.6
4050.5	2.5°	4017.6	3991.6	3925.6	3849.3	3748.7	3700.1	3634.2	3589.1	3550.9	3554.4
4151.2	5°	4095.6	4029.7	3882.3	3698.4	3469.4	3306.4	3132.9	3013.2	2916.0	2895.2
4289.9	7.5°	4203.2	4099.1	3840.6	3509.3	3122.5	2829.3	2567.4	2399.1	2279.4	2241.2
4458.2	10°	4342.0	4191.1	3786.9	3271.7	2714.8	2341.9	2060.8	1929.0	1847.5	1819.7
4656.0	12.5°	4503.3	4296.9	3715.7	2982.0	2295.0	1935.9	1757.3	1691.3	1665.3	1656.6
4898.8	15°	4706.3	4428.7	3608.2	2638.5	1939.4	1687.9	1611.5	1602.9	1606.3	1602.9
5190.2	17.5°	4947.4	4572.7	3433.0	2284.6	1700.0	1561.2	1533.5	1540.4	1549.1	1547.4
5516.4	20°	5211.1	4714.9	3209.2	1970.6	1537.0	1471.0	1455.4	1462.4	1469.3	1465.8
5892.8	22.5°	5511.2	4867.6	2961.1	1726.0	1427.7	1387.8	1370.4	1372.2	1372.2	1365.2
6369.8	25°	5870.2	5035.9	2700.9	1552.6	1344.4	1313.2	1292.4	1285.4	1275.0	1254.2
6949.2	27.5°	6298.7	5214.5	2451.1	1431.1	1278.5	1249.0	1224.7	1207.4	1181.3	1146.6
7644.9	30°	6781.0	5431.4	2239.5	1354.8	1226.4	1196.9	1169.2	1143.2	1105.0	1061.6
8444.6	32.5°	7348.2	5663.8	2085.1	1304.5	1179.6	1148.4	1115.4	1084.2	1042.6	999.2
9343.1	35°	8024.8	5944.8	1994.9	1269.8	1143.2	1101.5	1065.1	1030.4	999.2	961.0
10319.8	37.5°	8758.5	6243.2	1967.2	1252.5	1118.9	1054.7	1013.1	988.8	985.3	962.8
11376.2	40°	9561.7	6597.1	1988.0	1242.1	1092.9	1009.6	964.5	959.3	968.0	928.1
12505.5	42.5°	10411.7	7016.9	2022.7	1229.9	1056.4	964.5	921.1	921.1	914.2	858.7
13699.0	45°	11331.1	7500.9	2057.4	1200.4	1013.1	919.4	886.4	874.3	844.8	791.0
14899.4	47.5°	12257.4	7993.5	2083.4	1146.6	961.0	881.2	851.7	824.0	780.6	732.0
16077.3	50°	13136.9	8435.9	2055.6	1066.8	902.0	844.8	813.6	775.4	728.6	695.6
17192.7	52.5°	13922.8	8819.2	1937.7	973.2	839.6	806.6	778.9	739.0	700.8	666.1
18198.8	55°	14606.2	9129.8	1729.5	884.7	784.1	773.7	745.9	695.6	643.6	614.1
19196.3	57.5°	15262.0	9365.7	1469.3	811.8	733.8	737.3	695.6	650.5	601.9	570.7
20540.7	60°	16134.5	9681.4	1205.6	744.2	680.0	690.4	645.3	612.4	551.6	511.7
22846.1	62.5°	17529.2	10172.3	957.6	660.9	617.6	621.0	601.9	562.0	489.2	442.4
24554.8	65°	18636.0	9991.9	754.6	570.7	546.4	551.6	551.6	508.3	430.2	376.4
24646.7	67.5°	18511.1	8555.6	601.9	482.2	478.8	482.2	494.4	458.0	381.6	338.3
22769.8	70°	17052.2	6805.3	482.2	400.7	416.3	407.7	442.4	418.1	343.5	300.1
17652.4	72.5°	13914.1	4902.3	367.8	331.3	319.2	333.1	399.0	376.4	286.2	237.7
9350.1	75°	8130.6	2615.9	274.1	261.9	230.7	277.6	353.9	320.9	218.6	175.2
2865.7	77.5°	2647.2	912.5	201.2	192.6	171.7	223.8	301.8	270.6	178.7	138.8
839.6	80°	709.5	275.8	137.0	126.6	111.0	166.5	239.4	215.1	128.4	90.2
360.8	82.5°	284.5	116.2	79.8	71.1	60.7	114.5	189.1	173.5	95.4	57.2
112.8	85°	91.9	38.2	29.5	22.6	27.8	71.1	112.8	118.0	67.7	29.5
17.3	87.5°	12.1	5.2	5.2	6.9	5.2	12.1	34.7	33.0	19.1	3.5
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>
3991.6
3519.7
2848.4
2203.1
1798.9
1651.4
1601.1
1543.9
1464.1
1361.7
1250.7
1143.2
1058.2
1000.9
957.6
961.0
929.8
858.7
789.3
730.3
690.4
662.7
610.6
567.2
506.5
438.9
371.2
331.3
294.9
232.5
170.0
133.6
88.5
57.2
22.6
0.0
0.0

F REPORT)