

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: P948204

Luminaire Tested: **GALN-SB3B-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3B-827-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14964 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

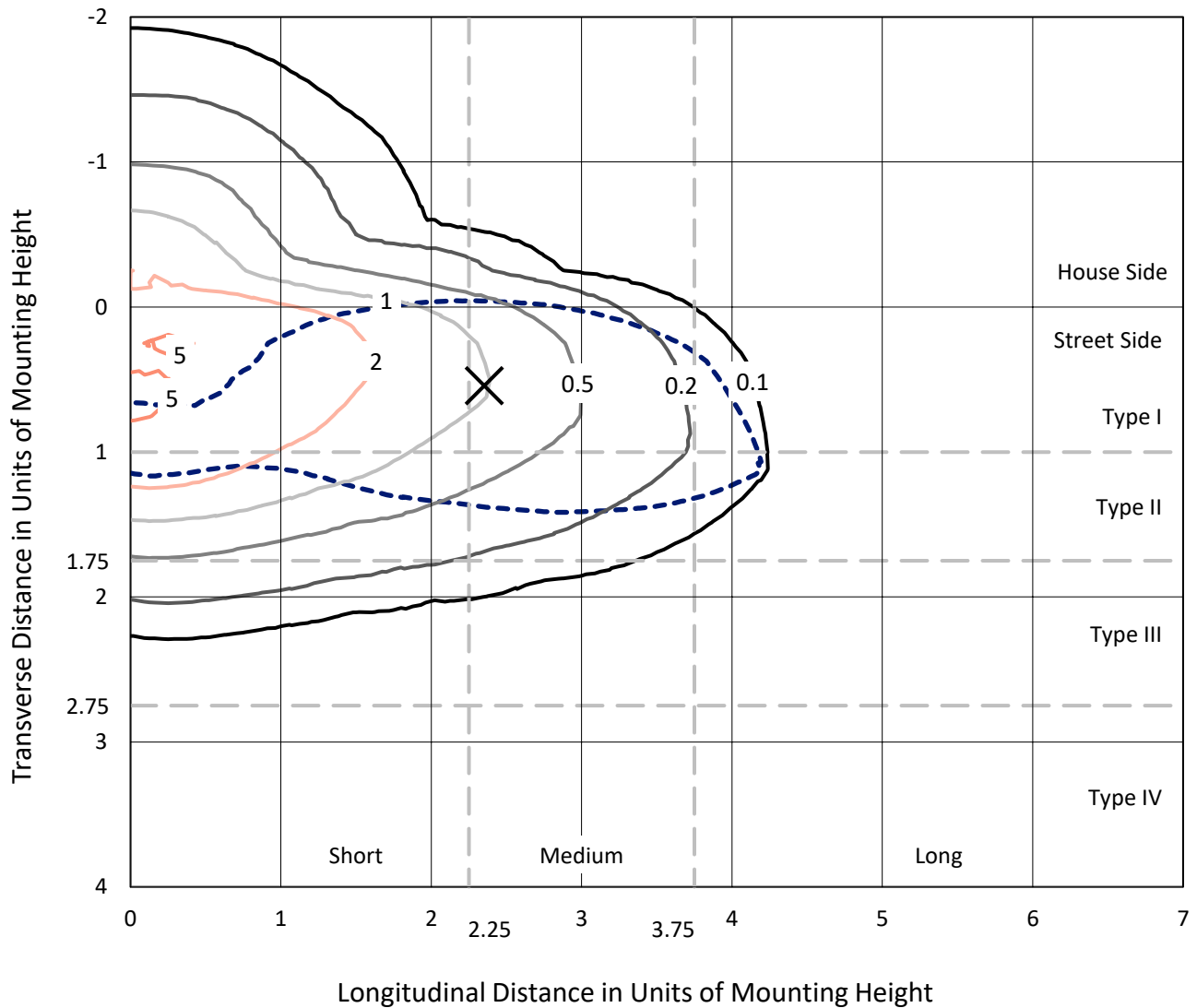
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P948204
 CATALOG NUMBER: GALN-SB3B-827-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

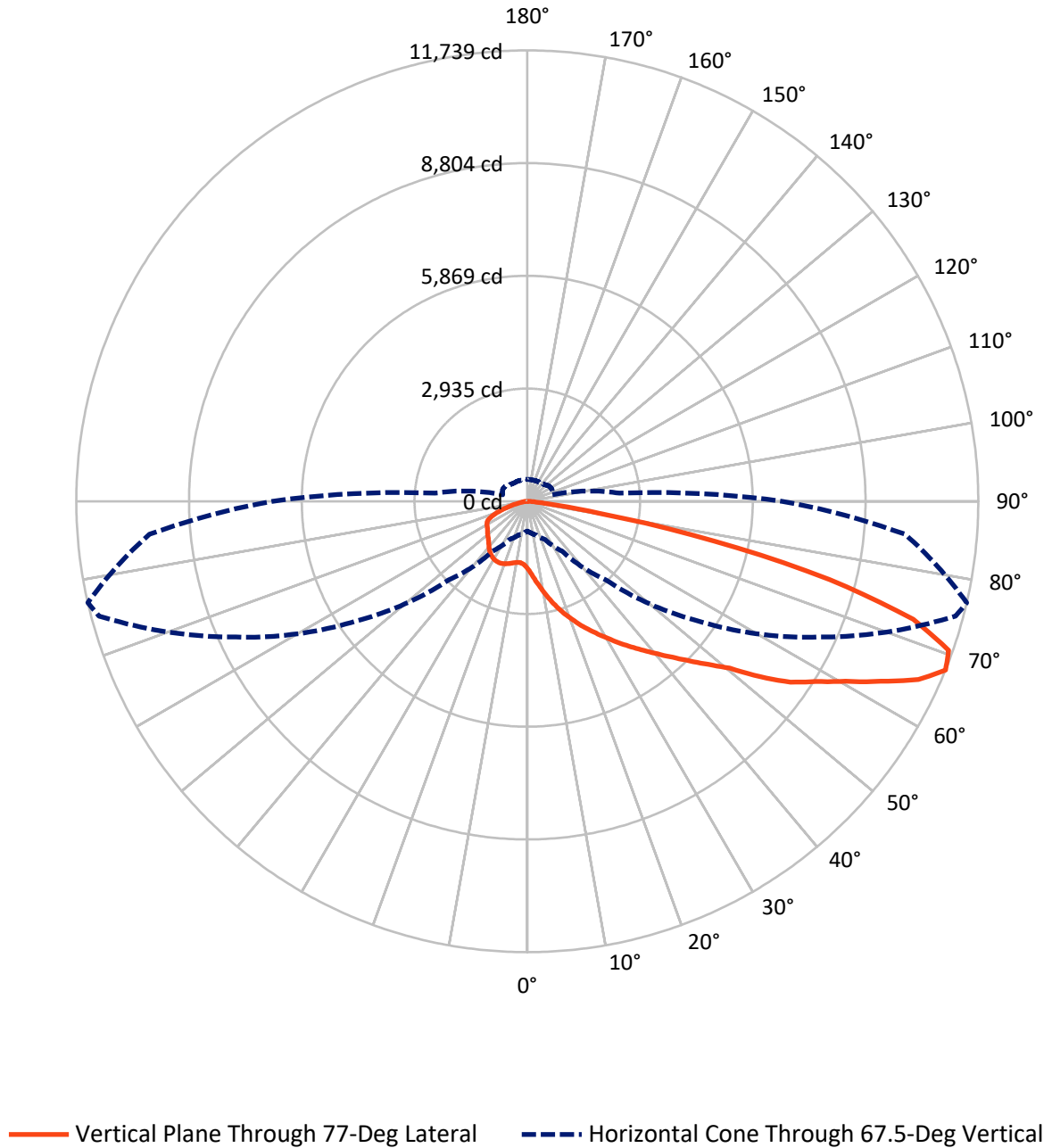
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P948204
CATALOG NUMBER: GALN-SB3B-827-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P948204

CATALOG NUMBER: GALN-SB3B-827-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2830.6	0.0	2830.6
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	12133.4	0.0	12133.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	14964.0	0.0	14964.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.2	1.3
10°-20°	676.1	4.5
20°-30°	1276.5	8.5
30°-40°	2056.5	13.7
40°-50°	2812.9	18.8
50°-60°	3173.0	21.2
60°-70°	2961.6	19.8
70°-80°	1623.4	10.8
80°-90°	195.8	1.3
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°	14964.0	100.0
0°-180°	14964.0	100.0

Coefficient of Utilization



REPORT NUMBER: P948204

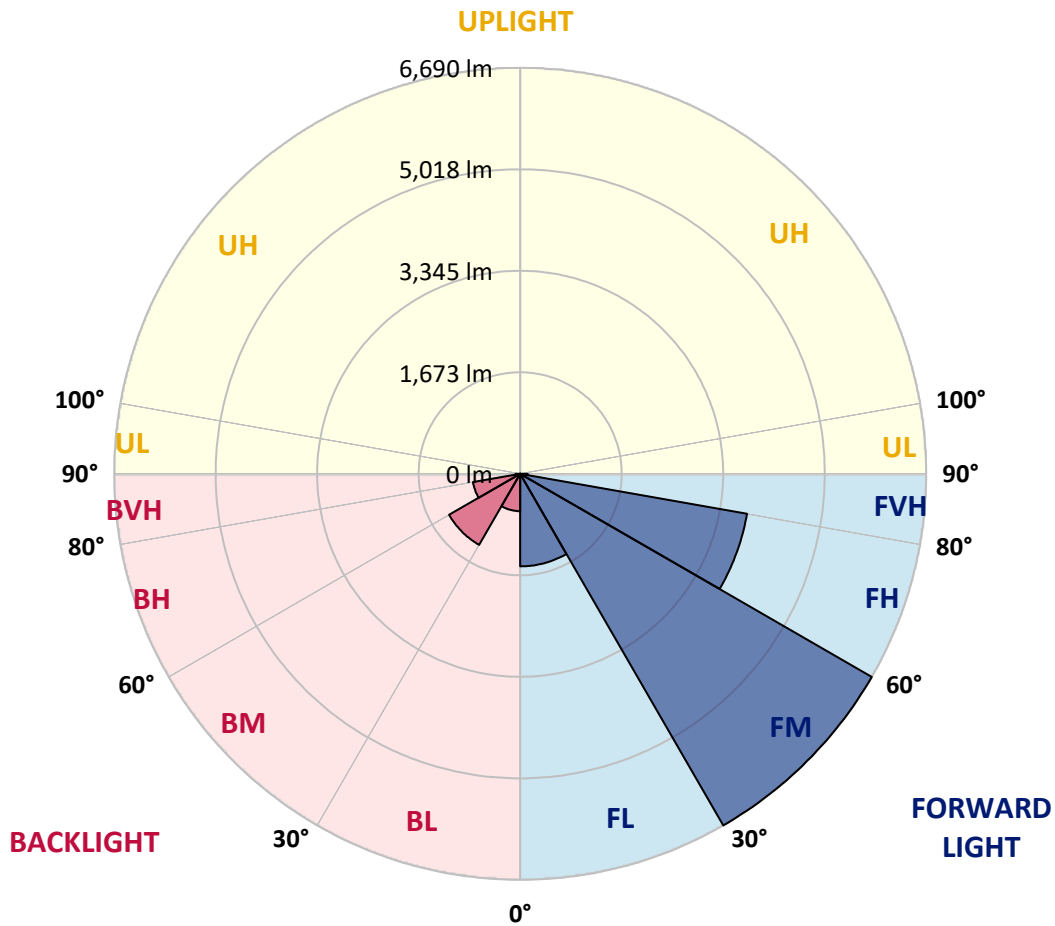
CATALOG NUMBER: GALN-SB3B-827-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1525.4	10.2			
FM (30°-60°)	6690.2	44.7			
FH (60°-80°)	3795.3	25.4			G2/5000
FVH (80°-90°)	122.5	0.8			G2/225
BL (0°-30°)	615.4	4.1	B2/1000		
BM (30°-60°)	1352.1	9.0	B2/2500		
BH (60°-80°)	789.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	73.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



REPORT NUMBER: P948204
 CATALOG NUMBER: GALN-SB3B-827-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1755.7	1755.7	1755.7	1755.7	1755.7	1755.7	1755.7	1755.7	1755.7	1755.7
2.5°	2198.3	2213.8	2194.5	2194.5	2129.6	2095.6	2030.7	1981.3	1892.5	1877.0
5°	2598.5	2617.8	2590.7	2579.2	2502.7	2432.4	2323.5	2216.1	2057.8	2041.5
7.5°	2908.2	2932.9	2909.0	2896.6	2828.7	2749.9	2622.4	2472.6	2249.3	2217.7
10°	3160.8	3164.7	3156.9	3161.6	3108.3	3043.4	2912.8	2738.3	2459.4	2416.2
12.5°	3303.7	3321.5	3336.9	3364.7	3355.5	3315.3	3197.9	2989.3	2681.9	2626.3
15°	3370.9	3401.8	3436.6	3500.7	3552.4	3562.5	3472.9	3258.9	2908.2	2841.0
17.5°	3394.8	3424.2	3479.0	3571.7	3683.0	3757.9	3717.7	3520.8	3132.2	3055.0
20°	3516.1	3524.6	3557.8	3645.9	3766.4	3890.7	3920.9	3772.6	3353.9	3266.6
22.5°	3775.7	3758.7	3767.9	3808.1	3894.6	4015.1	4083.9	3995.0	3581.8	3481.4
25°	4204.4	4154.9	4105.5	4059.1	4103.2	4171.1	4249.2	4217.5	3820.5	3693.0
27.5°	4745.8	4685.6	4576.7	4424.5	4371.2	4395.1	4429.9	4423.7	4041.4	3912.4
30°	5278.8	5208.5	5078.8	4858.6	4718.0	4654.7	4628.4	4610.7	4281.6	4144.1
32.5°	5704.4	5648.8	5521.4	5275.0	5071.0	4962.9	4875.6	4812.3	4532.6	4395.1
35°	6076.7	6025.0	5879.0	5610.2	5388.5	5273.4	5159.1	5023.9	4793.7	4654.7
37.5°	6416.6	6364.9	6164.8	5885.2	5661.9	5582.4	5480.4	5251.0	5055.6	4924.3
40°	6631.3	6619.8	6432.8	6116.1	5884.4	5845.0	5811.0	5514.4	5346.0	5224.0
42.5°	6686.2	6711.7	6563.4	6303.1	6082.1	6050.5	6130.0	5812.6	5672.0	5555.3
45°	6554.1	6627.5	6530.2	6353.3	6222.7	6205.7	6412.7	6138.5	6032.7	5926.1
47.5°	6219.6	6344.0	6303.8	6279.1	6260.6	6334.0	6661.5	6484.6	6441.3	6348.6
50°	5544.5	5780.1	5850.4	6006.4	6185.7	6433.6	6887.8	6862.3	6918.7	6825.2
52.5°	4377.4	4701.8	5109.6	5500.5	5955.5	6400.4	7136.5	7404.6	7642.5	7591.5
55°	3613.4	3759.4	4073.0	4789.9	5509.0	6260.6	7248.5	7842.5	8360.8	8315.3
57.5°	3026.4	3156.9	3350.0	3948.7	4833.9	5943.1	7318.0	8109.8	8852.9	8848.2
60°	2396.9	2535.1	2732.9	3156.9	4045.2	5394.7	7302.6	8414.1	9480.9	9519.5
62.5°	1686.2	1838.4	2057.8	2453.2	3239.6	4684.0	6987.4	8634.3	10220.1	10325.1
65°	1108.4	1208.9	1374.2	1715.6	2413.9	3770.2	6385.7	8662.8	11011.0	11188.7
67.5°	777.1	815.7	913.0	1098.4	1591.2	2891.2	5427.1	8367.0	11538.6	11738.7
70°	606.4	625.7	675.1	749.3	999.5	1944.2	4158.8	7597.7	11425.8	11634.4
72.5°	523.7	542.2	560.8	570.1	670.5	1200.4	2817.1	6352.5	10363.7	10505.1
75°	475.0	479.7	495.1	492.0	511.4	778.6	1626.0	4628.4	8177.0	8128.3
77.5°	399.3	405.5	431.0	427.2	454.2	532.2	844.3	2987.0	5301.2	4970.6
80°	338.3	341.4	369.2	364.6	394.7	385.4	431.0	1522.5	2248.6	1904.8
82.5°	117.4	145.2	281.9	290.4	301.2	233.3	248.7	621.0	686.7	526.0
85°	57.2	61.0	143.7	203.9	203.2	117.4	121.3	221.7	216.3	169.9
87.5°	9.3	11.6	17.0	79.6	63.3	30.9	41.7	43.3	44.8	38.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P948204
 CATALOG NUMBER: GALN-SB3B-827-U-T2R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1755.7	0°	1755.7	1755.7	1755.7	1755.7	1755.7	1755.7	1755.7	1755.7	1755.7	1755.7
1818.3	2.5°	1775.1	1736.4	1655.3	1580.4	1521.7	1465.3	1433.6	1406.6	1391.2	1388.1
1903.3	5°	1822.9	1743.4	1595.8	1471.5	1390.4	1330.1	1298.5	1278.4	1268.3	1262.2
2017.6	7.5°	1891.7	1775.1	1565.0	1423.6	1338.6	1295.4	1279.2	1276.1	1275.3	1276.1
2155.9	10°	1986.7	1826.8	1561.9	1412.0	1340.9	1317.0	1316.2	1317.0	1320.1	1320.9
2306.5	12.5°	2089.4	1880.1	1574.2	1422.1	1370.3	1357.2	1354.8	1354.1	1356.4	1357.9
2458.7	15°	2201.4	1950.4	1595.1	1443.7	1402.7	1388.8	1386.5	1381.9	1381.1	1380.3
2618.6	17.5°	2316.5	2019.9	1618.2	1466.9	1423.6	1404.3	1395.8	1385.0	1376.5	1374.2
2783.9	20°	2433.2	2088.7	1634.5	1478.4	1425.1	1398.1	1381.1	1362.6	1347.9	1339.4
2950.7	22.5°	2557.5	2160.5	1644.5	1475.3	1411.2	1374.2	1343.3	1321.6	1299.2	1284.6
3119.1	25°	2678.8	2223.1	1643.7	1459.1	1384.2	1337.1	1297.7	1269.9	1239.0	1223.5
3292.9	27.5°	2795.4	2279.5	1624.4	1430.5	1345.6	1293.1	1245.9	1212.7	1182.6	1167.9
3468.2	30°	2915.9	2326.6	1594.3	1388.8	1300.0	1242.1	1190.3	1161.7	1134.7	1120.8
3653.6	32.5°	3035.7	2369.8	1551.8	1337.1	1247.5	1191.9	1140.9	1114.6	1098.4	1098.4
3852.9	35°	3162.3	2400.0	1495.4	1276.8	1191.9	1138.6	1098.4	1083.0	1081.4	1072.1
4063.8	37.5°	3296.0	2419.3	1426.7	1215.0	1137.0	1086.8	1074.5	1055.9	1040.5	1020.4
4295.5	40°	3436.6	2438.6	1344.0	1150.9	1079.1	1051.3	1045.9	1021.2	977.1	927.7
4558.1	42.5°	3607.3	2451.7	1258.3	1086.8	1018.1	1008.8	1016.5	974.0	903.7	866.7
4874.8	45°	3805.0	2473.3	1179.5	1023.5	955.5	955.5	987.9	932.3	874.4	851.2
5236.3	47.5°	4061.5	2523.5	1106.1	954.0	897.6	913.0	924.6	882.1	849.7	821.1
5676.6	50°	4432.2	2644.0	1030.4	883.7	853.5	884.4	868.2	843.5	805.6	782.5
6376.4	52.5°	4892.6	2715.1	963.2	820.3	815.7	846.6	823.4	800.2	771.7	740.8
6907.1	55°	5206.2	2728.2	906.8	774.0	790.2	787.1	778.6	757.8	742.3	701.4
7430.8	57.5°	5556.9	2754.5	860.5	746.2	774.0	740.0	736.9	719.1	699.1	671.2
8069.6	60°	5976.3	2795.4	820.3	735.4	760.1	709.1	693.6	686.7	666.6	652.7
8838.2	62.5°	6433.6	2832.5	779.4	736.9	743.9	679.0	655.8	653.5	641.1	636.5
9559.6	65°	6745.7	2731.3	728.4	735.4	718.4	648.1	618.7	617.9	607.9	606.4
9872.5	67.5°	6636.8	2410.8	659.7	713.7	692.1	617.2	584.7	581.6	568.5	569.3
9545.7	70°	6091.4	1953.5	564.6	660.4	659.7	589.4	549.2	539.2	521.4	524.5
8299.8	72.5°	5068.7	1447.5	437.2	571.6	607.9	563.9	508.3	492.0	469.6	472.7
6126.9	75°	3660.6	984.1	318.2	434.9	529.1	533.8	468.1	440.3	413.3	417.9
3410.3	77.5°	1873.2	557.7	234.0	299.7	415.6	485.1	431.8	394.7	388.5	431.8
983.3	80°	611.0	279.6	162.2	210.1	272.7	397.0	378.5	336.0	334.5	344.5
206.2	82.5°	182.3	118.2	104.3	138.3	150.6	304.3	326.7	254.1	218.6	230.2
68.7	85°	62.6	57.2	59.5	68.7	71.8	178.4	228.6	168.4	159.1	175.3
15.4	87.5°	14.7	20.1	17.0	15.4	15.4	43.3	88.8	70.3	97.3	64.9
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>
1755.7
1388.1
1261.4
1278.4
1321.6
1358.7
1379.6
1376.5
1342.5
1285.3
1223.5
1167.1
1120.0
1099.2
1069.8
1017.3
920.7
867.4
855.1
820.3
780.2
734.6
702.1
662.0
656.6
636.5
605.6
569.3
527.6
472.0
419.4
425.6
295.8
237.9
173.0
62.6
0.0

F REPORT)