

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: P942065

Luminaire Tested: **GALN-SB5D-927-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P942065  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5D-927-U-T2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31003 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4

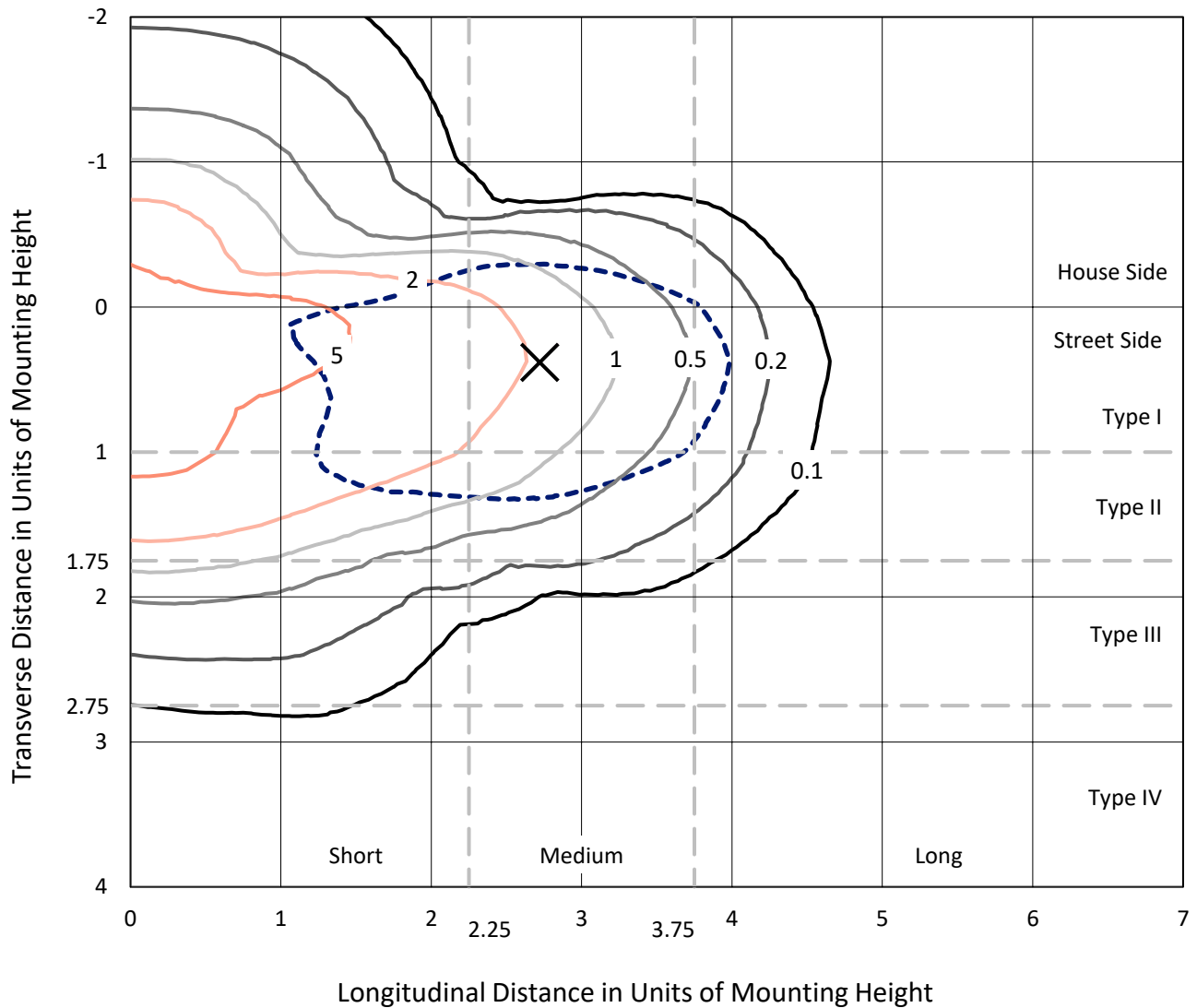
Input Watts (W): 364.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P942065  
 CATALOG NUMBER: GALN-SB5D-927-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

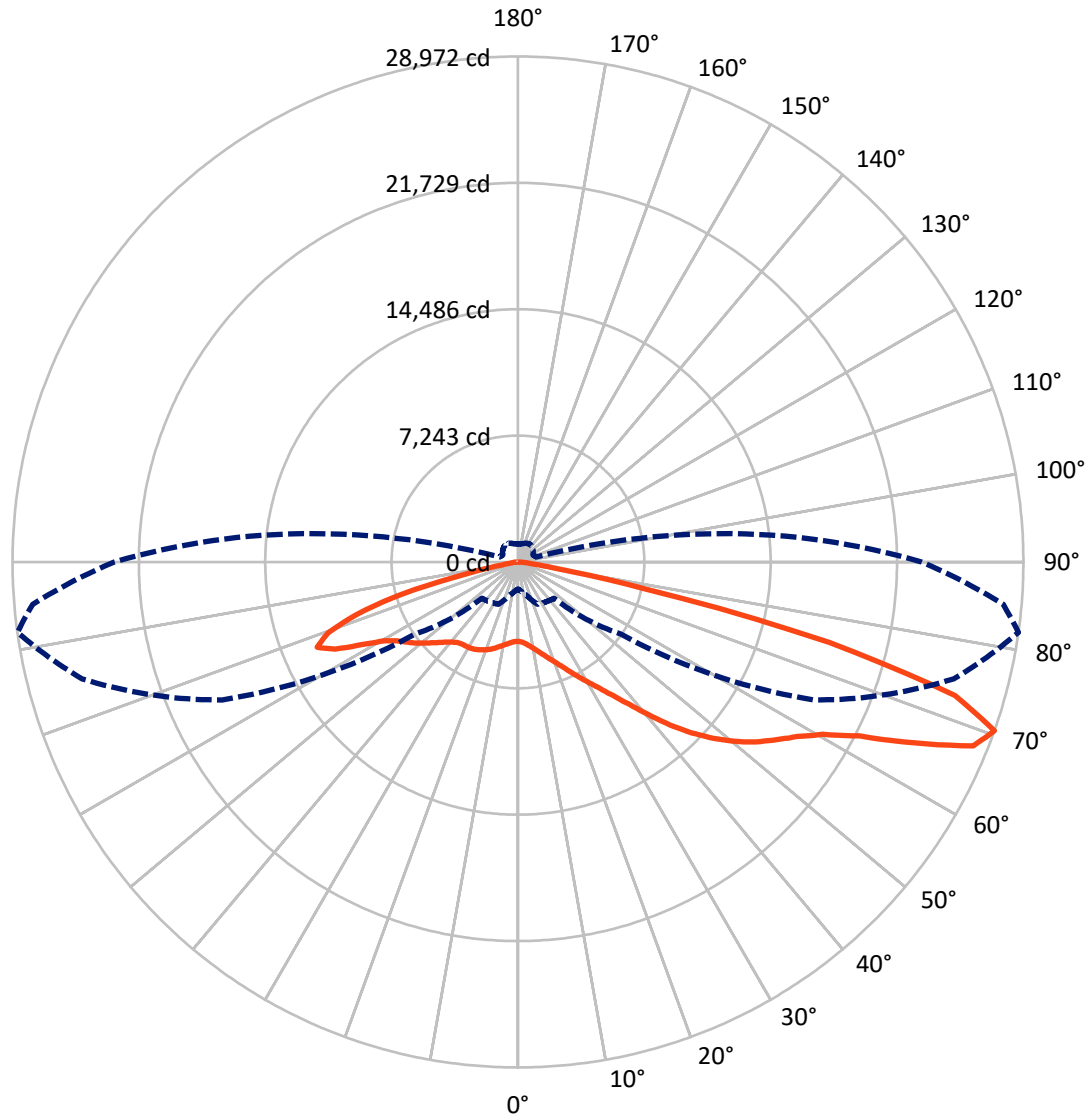
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type II - Medium - N/A

REPORT NUMBER: P942065  
CATALOG NUMBER: GALN-SB5D-927-U-T2

### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P942065

CATALOG NUMBER: GALN-SB5D-927-U-T2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7643.0	0.0	7643.0
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	23360.0	0.0	23360.0
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	31003.0	0.0	31003.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	429.2	1.4
10°-20°	1233.0	4.0
20°-30°	2062.7	6.7
30°-40°	3222.5	10.4
40°-50°	5132.2	16.6
50°-60°	7142.1	23.0
60°-70°	7471.0	24.1
70°-80°	3904.7	12.6
80°-90°	405.5	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°	31003.0	100.0
0°-180°	31003.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P942065

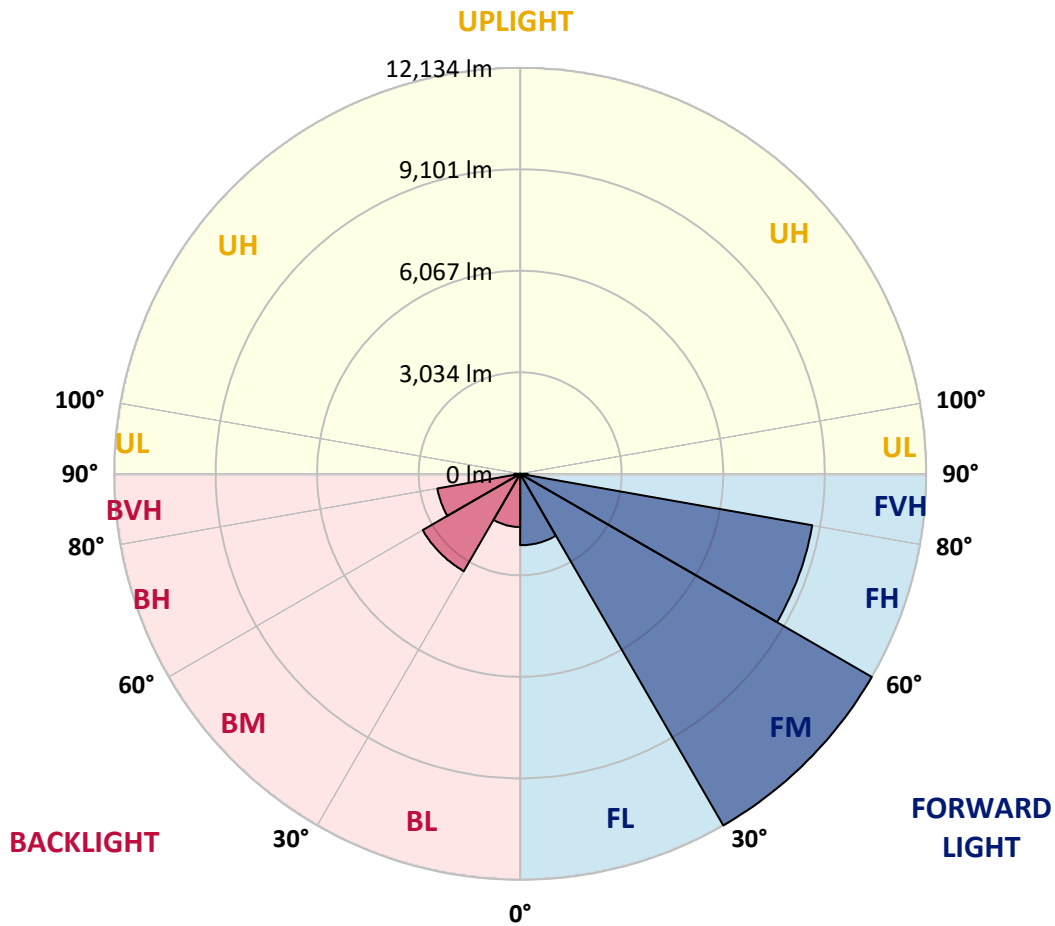
CATALOG NUMBER: GALN-SB5D-927-U-T2

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2134.9	6.9			
FM (30°-60°)	12134.3	39.1			
FH (60°-80°)	8863.9	28.6			G4/12000
FVH (80°-90°)	227.0	0.7			G3/500
BL (0°-30°)	1590.0	5.1	B3/2500		
BM (30°-60°)	3362.6	10.8	B3/5000		
BH (60°-80°)	2511.9	8.1	B4/5000		G4/5000
BVH (80°-90°)	178.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Medium



REPORT NUMBER: P942065  
 CATALOG NUMBER: GALN-SB5D-927-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	4545.4	4545.4	4545.4	4545.4	4545.4	4545.4	4545.4	4545.4	4545.4	4545.4
2.5°	4654.0	4680.3	4672.1	4663.9	4663.9	4652.4	4650.7	4634.3	4621.1	4599.7
5°	4713.2	4741.2	4737.9	4744.5	4765.9	4770.8	4775.7	4765.9	4739.5	4713.2
7.5°	4660.6	4691.8	4701.7	4741.2	4807.0	4866.2	4910.6	4928.7	4904.1	4866.2
10°	4482.9	4517.5	4552.0	4645.8	4762.6	4902.4	5020.9	5091.6	5086.7	5050.5
12.5°	4122.6	4158.8	4232.9	4415.5	4629.3	4876.1	5096.5	5244.6	5295.6	5269.3
15°	3834.7	3866.0	3921.9	4109.5	4387.5	4762.6	5124.5	5412.4	5542.4	5527.6
17.5°	3826.5	3839.7	3874.2	3963.1	4176.9	4584.9	5094.9	5576.9	5825.3	5823.7
20°	3971.3	3976.2	3996.0	4014.1	4135.8	4450.0	5019.2	5713.5	6142.8	6142.8
22.5°	4172.0	4168.7	4188.4	4172.0	4231.2	4438.5	4971.5	5833.5	6496.5	6522.8
25°	4473.0	4456.6	4451.7	4413.8	4425.3	4545.4	5024.2	5970.1	6916.0	6970.3
27.5°	4874.4	4848.1	4830.0	4742.8	4713.2	4765.9	5185.4	6134.6	7383.2	7477.0
30°	5397.6	5349.9	5323.6	5172.2	5065.3	5073.5	5428.8	6353.4	7871.8	8023.2
32.5°	6111.6	6037.5	5966.8	5718.4	5522.6	5458.5	5743.1	6656.1	8401.6	8643.4
35°	6911.1	6851.9	6776.2	6392.9	6091.8	5943.8	6167.5	7078.9	9021.8	9405.1
37.5°	7681.0	7630.0	7666.2	7149.6	6761.4	6545.9	6723.5	7646.5	9786.7	10352.7
40°	8477.2	8437.7	8442.7	7949.2	7496.7	7254.9	7398.0	8358.8	10663.6	11479.5
42.5°	9342.6	9312.9	9214.2	8776.6	8268.3	8042.9	8174.5	9181.3	11604.6	12762.7
45°	10311.5	10293.4	10201.3	9699.5	9117.2	8863.8	9041.5	10089.4	12550.5	13970.2
47.5°	11148.9	11163.7	11152.2	10729.4	10125.6	9753.8	9966.1	11037.0	13430.6	15105.4
50°	11551.9	11629.3	11742.8	11611.2	11236.1	10857.7	10898.8	11951.7	14269.6	16169.7
52.5°	11341.4	11487.8	11797.1	12007.6	12152.4	12073.4	11963.2	12859.8	15059.3	17130.5
55°	10556.6	10762.3	11275.6	11783.9	12522.5	13096.7	13241.5	13866.6	15829.2	17976.1
57.5°	9127.0	9461.0	9921.6	10949.8	12193.5	13591.9	14731.9	15263.3	16645.2	18879.2
60°	6675.8	7123.3	7695.8	9225.8	11042.0	13327.0	16000.3	17408.5	17805.0	20048.9
62.5°	4272.3	4548.7	5075.2	6516.3	8603.9	11969.8	16388.5	20090.0	19770.9	21967.1
65°	2925.0	3102.7	3584.7	4394.1	5562.1	8909.9	15348.8	22100.4	22893.3	25007.3
67.5°	2125.5	2260.4	2671.7	3380.7	3624.2	5272.6	11910.6	22008.2	25928.5	28139.5
70°	1549.7	1645.1	1990.6	2671.7	2788.5	2933.2	7215.4	18708.1	25862.7	28972.0
72.5°	1148.3	1214.1	1446.0	2072.8	2257.1	1980.7	3571.5	13596.8	22223.7	26204.9
75°	830.8	880.1	1051.2	1585.9	1806.3	1508.6	1781.6	7945.9	15501.8	18433.4
77.5°	635.0	672.8	784.7	1161.4	1446.0	1131.8	1105.5	3655.4	7350.3	7386.5
80°	510.0	534.7	595.5	817.6	1108.8	847.2	720.6	1475.7	2322.9	1965.9
82.5°	375.1	416.2	503.4	574.1	792.9	584.0	439.2	745.2	883.4	760.0
85°	213.9	241.8	304.3	411.3	506.7	357.0	251.7	330.7	411.3	337.2
87.5°	75.7	98.7	106.9	161.2	220.4	148.1	97.1	95.4	134.9	100.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P942065  
 CATALOG NUMBER: GALN-SB5D-927-U-T2

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4545.4	0°	4545.4	4545.4	4545.4	4545.4	4545.4	4545.4	4545.4	4545.4	4545.4	4545.4
4594.8	2.5°	4578.3	4570.1	4537.2	4492.8	4446.7	4402.3	4387.5	4356.2	4334.9	4323.3
4701.7	5°	4670.5	4644.1	4566.8	4468.1	4364.5	4252.6	4173.6	4101.2	4048.6	3999.3
4848.1	7.5°	4802.1	4756.0	4622.7	4450.0	4265.8	4079.9	3941.7	3836.4	3765.6	3719.6
5019.2	10°	4955.1	4884.3	4680.3	4422.0	4137.4	3870.9	3708.1	3617.6	3573.2	3548.5
5215.0	12.5°	5131.1	5030.7	4739.5	4357.9	3941.7	3637.3	3525.5	3499.1	3500.8	3502.4
5461.8	15°	5348.2	5208.4	4787.3	4218.1	3686.7	3458.0	3438.3	3481.0	3525.5	3546.8
5741.4	17.5°	5593.4	5395.9	4795.5	3987.7	3436.6	3342.9	3405.4	3497.5	3564.9	3594.6
6054.0	20°	5856.6	5586.8	4736.3	3662.0	3231.0	3249.1	3361.0	3479.4	3553.4	3591.3
6411.0	22.5°	6157.6	5790.8	4594.8	3319.8	3063.2	3147.1	3278.7	3393.9	3471.2	3509.0
6830.5	25°	6501.5	6019.4	4372.7	3031.9	2918.4	3031.9	3163.5	3259.0	3321.5	3356.0
7299.3	27.5°	6883.1	6258.0	4076.6	2803.3	2791.7	2913.5	3022.1	3096.1	3129.0	3155.3
7797.8	30°	7266.4	6475.1	3717.9	2630.5	2681.5	2796.7	2874.0	2906.9	2916.8	2921.7
8353.8	32.5°	7681.0	6662.7	3341.2	2487.4	2576.2	2683.2	2729.2	2744.0	2698.0	2666.7
9028.3	35°	8182.8	6863.4	2972.7	2373.9	2472.6	2564.7	2579.5	2566.4	2512.1	2447.9
9873.9	37.5°	8803.0	7113.4	2678.2	2293.3	2375.5	2436.4	2418.3	2415.0	2420.0	2344.3
10890.6	40°	9563.0	7439.2	2462.7	2230.8	2296.6	2309.7	2258.7	2286.7	2311.4	2196.2
12006.0	42.5°	10406.9	7832.3	2326.2	2188.0	2230.8	2199.5	2120.5	2151.8	2148.5	1997.2
13126.3	45°	11267.3	8260.1	2278.5	2156.7	2169.9	2107.4	2020.2	2028.4	1959.3	1822.8
14200.6	47.5°	12122.8	8719.1	2308.1	2130.4	2094.2	2023.5	1956.0	1919.8	1817.8	1715.8
15230.4	50°	12961.8	9201.1	2416.7	2077.8	1990.6	1949.5	1900.1	1835.9	1727.4	1640.2
16204.3	52.5°	13739.9	9686.4	2538.4	1990.6	1860.6	1885.3	1854.0	1780.0	1673.1	1584.2
17125.6	55°	14476.9	10171.7	2586.1	1870.5	1738.9	1829.4	1811.3	1674.7	1546.4	1474.0
18089.6	57.5°	15279.7	10755.7	2533.5	1717.5	1640.2	1765.2	1696.1	1544.8	1470.7	1416.4
19344.8	60°	16391.8	11672.0	2420.0	1528.3	1546.4	1669.8	1551.3	1488.8	1408.2	1347.3
21226.8	62.5°	18239.3	13381.3	2237.3	1340.8	1436.2	1528.3	1482.2	1419.7	1337.5	1278.2
24444.6	65°	20970.2	15756.8	1893.5	1194.3	1312.8	1390.1	1408.2	1345.7	1260.2	1197.6
27264.3	67.5°	23273.3	17247.3	1432.9	1072.6	1186.1	1278.2	1329.2	1268.4	1177.9	1117.0
27924.0	70°	23146.6	16164.8	1094.0	952.5	1074.3	1168.0	1233.8	1186.1	1089.1	1031.5
25364.2	72.5°	20558.9	13522.8	885.1	830.8	960.7	1052.9	1131.8	1095.6	996.9	941.0
18581.5	75°	15103.7	9599.2	707.4	707.4	819.3	932.8	1020.0	996.9	906.5	867.0
7801.1	77.5°	6366.6	4027.2	554.4	587.3	681.1	801.2	909.7	918.0	839.0	888.4
2063.0	80°	1692.8	1110.4	422.8	462.3	534.7	661.3	791.3	788.0	702.5	656.4
766.6	82.5°	644.9	437.6	301.1	325.7	386.6	506.7	626.8	646.5	561.0	485.3
301.1	85°	248.4	187.5	185.9	195.8	225.4	335.6	473.8	490.2	422.8	358.6
83.9	87.5°	64.2	55.9	69.1	65.8	103.6	179.3	271.4	281.3	258.3	149.7
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>
4545.4
4336.5
4019.0
3729.5
3555.1
3505.7
3545.2
3601.1
3601.1
3518.9
3365.9
3165.2
2933.2
2676.6
2451.2
2349.2
2199.5
1995.5
1827.7
1715.8
1633.6
1585.9
1467.4
1411.5
1344.1
1278.2
1200.9
1118.7
1036.4
941.0
855.5
806.1
610.3
485.3
370.1
213.9
0.0

F REPORT)