

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: P951054

Luminaire Tested: **GALN-SB5B-827-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951054  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB5B-827-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

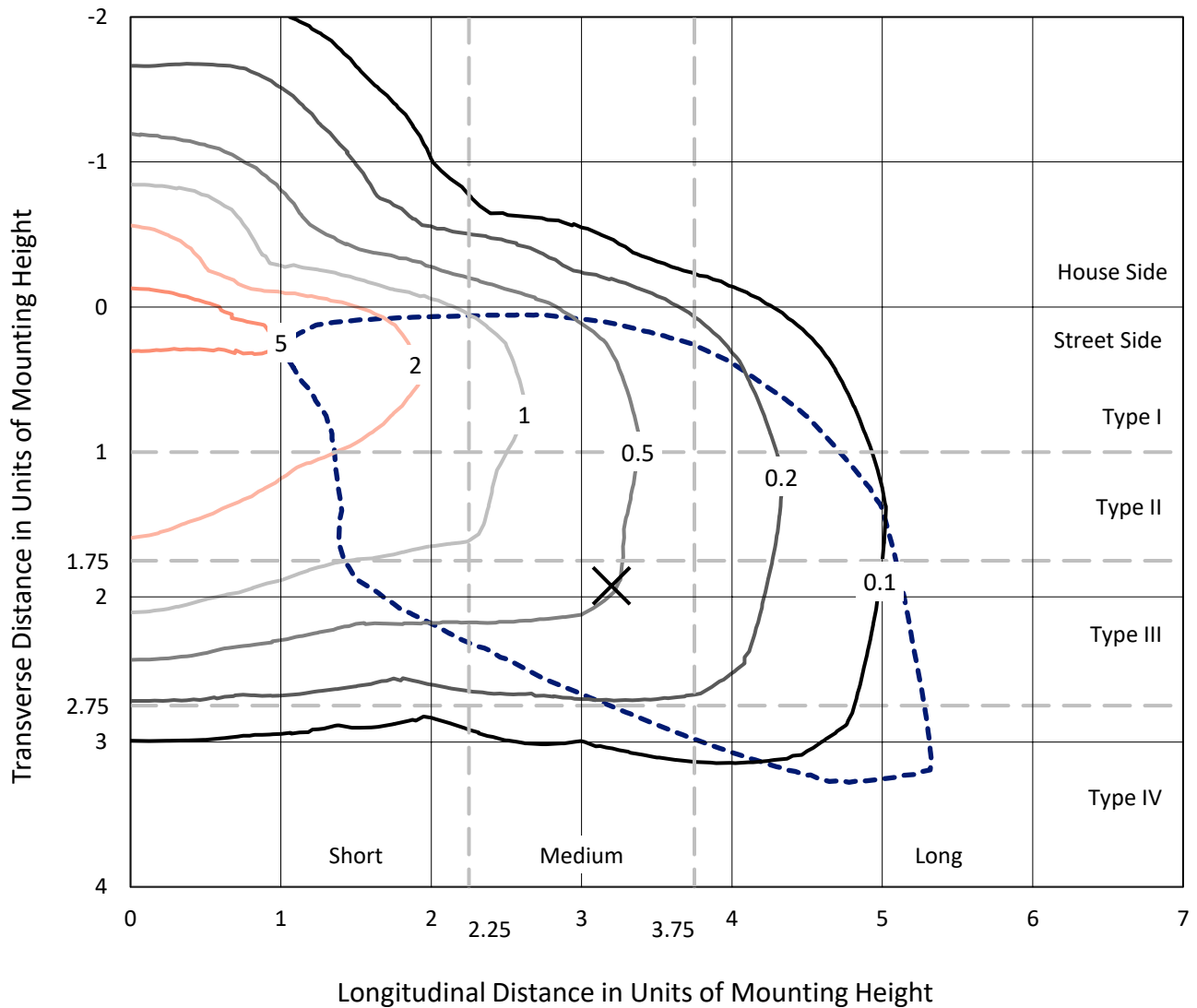
Lumens per Lamp: N/A  
Luminaire Lumens: 24174 lumens  
Efficiency: N/A  
Efficacy: 132.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P951054  
 CATALOG NUMBER: GALN-SB5B-827-U-SL3

### Iso-Footcandle Lines of Horizontal Illumination

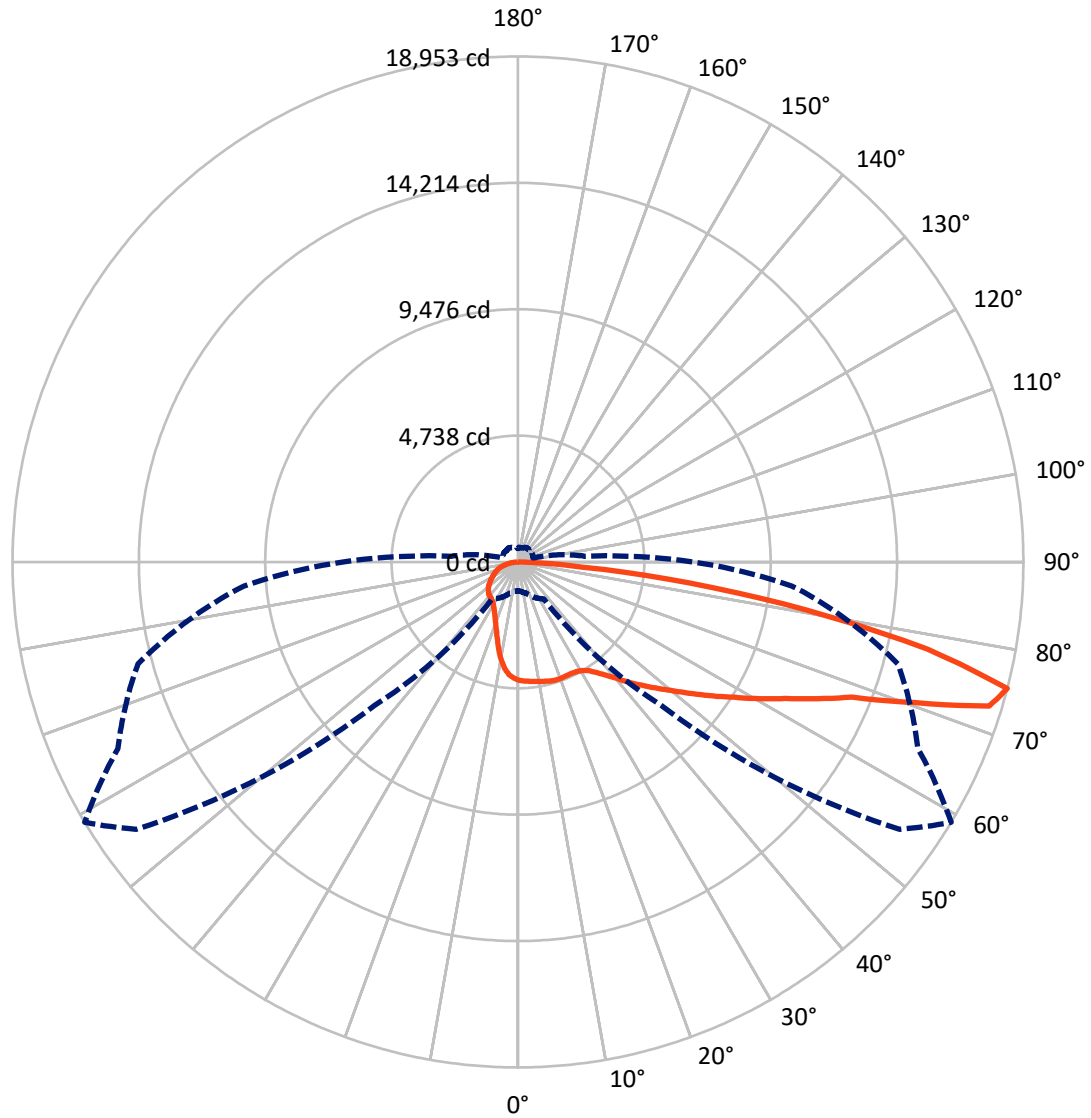
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P951054  
CATALOG NUMBER: GALN-SB5B-827-U-SL3

### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P951054

CATALOG NUMBER: GALN-SB5B-827-U-SL3

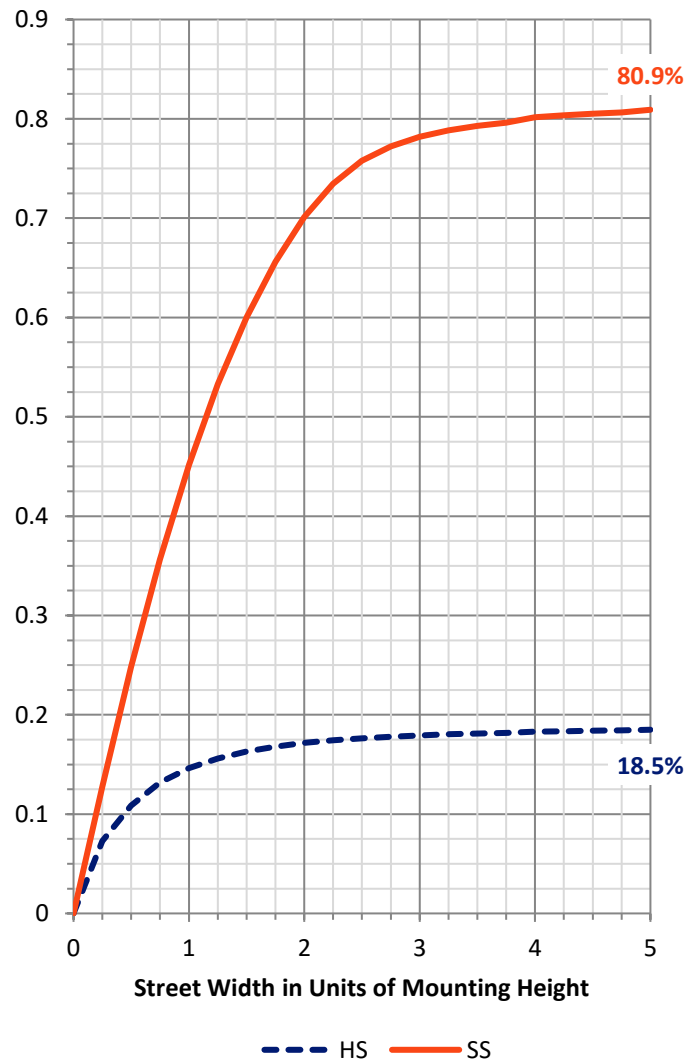
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4534.0	0.0	4534.0
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	19640.0	0.0	19640.0
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	24174.0	0.0	24174.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.9	1.6
10°-20°	1016.9	4.2
20°-30°	1544.7	6.4
30°-40°	2296.1	9.5
40°-50°	3414.7	14.1
50°-60°	4635.0	19.2
60°-70°	5658.6	23.4
70°-80°	4440.8	18.4
80°-90°	769.3	3.2
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°	24174.0	100.0
0°-180°	24174.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P951054

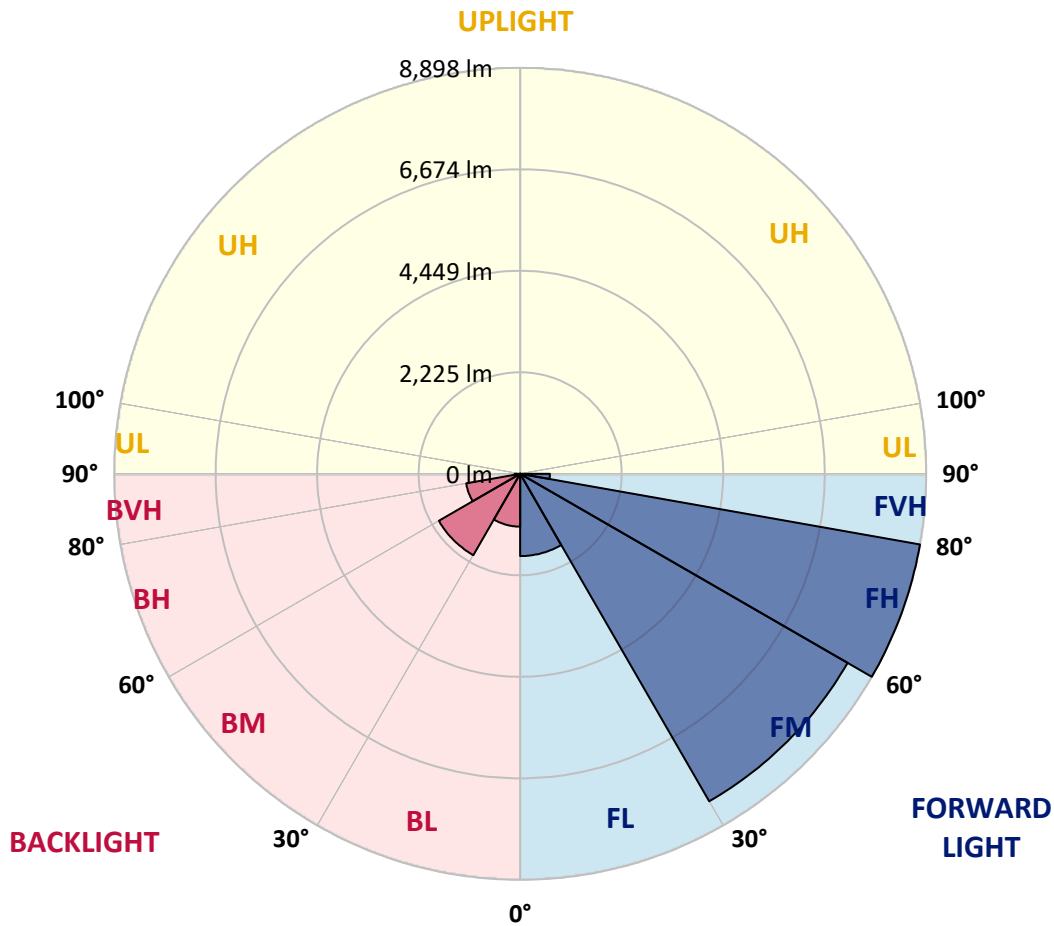
CATALOG NUMBER: GALN-SB5B-827-U-SL3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1802.4	7.5			
FM (30°-60°)	8287.9	34.3			
FH (60°-80°)	8898.2	36.8			G4/12000
FVH (80°-90°)	651.5	2.7			G4/750
BL (0°-30°)	1157.0	4.8	B3/2500		
BM (30°-60°)	2058.0	8.5	B2/2500		
BH (60°-80°)	1201.2	5.0	B3/2500		G3/2500
BVH (80°-90°)	117.8	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 IV Medium



REPORT NUMBER: P951054  
 CATALOG NUMBER: GALN-SB5B-827-U-SL3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	4437.1	4437.1	4437.1	4437.1	4437.1	4437.1	4437.1	4437.1	4437.1	4437.1
2.5°	4474.8	4459.2	4474.8	4468.3	4465.7	4460.5	4461.8	4470.9	4465.7	4472.2
5°	4444.9	4435.8	4451.4	4447.5	4464.4	4467.0	4483.9	4494.3	4500.8	4502.1
7.5°	4395.5	4386.4	4408.5	4426.7	4463.1	4473.5	4508.6	4525.5	4534.6	4550.2
10°	4214.7	4210.8	4265.4	4334.3	4420.2	4473.5	4526.8	4555.4	4569.7	4611.3
12.5°	3894.8	3900.0	3971.5	4104.2	4275.8	4447.5	4547.6	4589.2	4611.3	4663.4
15°	3589.2	3587.9	3665.9	3807.7	4048.3	4333.0	4558.0	4629.5	4667.3	4744.0
17.5°	3412.3	3407.1	3461.8	3569.7	3793.4	4157.5	4532.0	4651.7	4732.3	4828.5
20°	3379.8	3369.4	3398.0	3451.4	3610.0	3965.0	4464.4	4651.7	4784.3	4909.1
22.5°	3498.2	3481.3	3469.6	3463.1	3533.3	3806.4	4387.7	4636.1	4861.0	5024.9
25°	3736.1	3710.1	3650.3	3591.8	3571.0	3734.8	4320.0	4632.1	4975.5	5180.9
27.5°	4121.1	4088.6	3967.6	3827.2	3701.0	3771.3	4290.1	4655.6	5101.6	5346.1
30°	4598.3	4563.2	4411.1	4195.2	3968.9	3906.5	4327.8	4724.5	5262.9	5565.9
32.5°	5026.2	4987.2	4857.1	4637.4	4331.7	4140.6	4447.5	4855.8	5516.4	5871.5
35°	5405.9	5360.4	5243.4	5040.5	4776.5	4469.6	4663.4	5088.6	5876.7	6368.2
37.5°	5777.8	5724.5	5597.1	5382.5	5197.8	4907.8	4961.2	5387.7	6355.2	6971.6
40°	6194.0	6117.2	5962.5	5750.5	5571.1	5421.5	5352.6	5754.4	6841.6	7645.3
42.5°	6597.1	6524.3	6339.6	6158.9	5933.9	5891.0	5806.4	6183.6	7373.5	8385.2
45°	7031.5	6944.3	6720.6	6491.8	6350.0	6203.1	6246.0	6612.7	7894.9	9139.5
47.5°	7438.5	7341.0	7077.0	6822.1	6744.1	6465.8	6649.1	7084.8	8437.2	9904.1
50°	7658.3	7562.0	7342.3	7112.1	7051.0	6789.6	7086.1	7603.6	9005.5	10666.2
52.5°	7841.6	7737.6	7450.2	7322.7	7304.5	7142.0	7624.4	8196.6	9573.8	11339.8
55°	8036.7	7920.9	7554.2	7439.8	7523.0	7537.3	8263.0	8869.0	10174.6	11996.5
57.5°	8261.7	8114.7	7654.4	7538.6	7736.3	8000.3	8996.4	9566.0	10765.0	12605.1
60°	8473.6	8325.4	7846.8	7696.0	7966.5	8537.4	9837.8	10410.0	11433.4	13147.4
62.5°	8515.2	8393.0	8000.3	7999.0	8278.6	9164.2	10833.9	11261.8	12017.3	13683.2
65°	7794.8	7718.1	7485.3	7987.3	8725.9	10066.7	11943.2	12351.5	12759.9	14151.3
67.5°	5932.6	5943.0	5926.1	6894.9	8364.4	11363.2	13549.2	13518.0	13676.7	14676.7
70°	2712.7	2773.8	3171.8	4759.6	6701.1	11512.8	16204.7	15800.3	14827.6	15356.8
72.5°	1465.6	1512.4	1675.0	2305.7	4028.7	10235.7	18189.2	18476.6	16358.2	15814.6
75°	1075.5	1101.5	1214.6	1465.6	1691.9	7607.5	17477.8	18952.5	16549.3	14746.9
77.5°	805.0	816.7	909.0	1161.3	866.1	4010.5	13965.4	15696.2	14166.9	12116.2
80°	583.9	596.9	665.8	871.3	607.3	1466.9	9589.4	11017.3	9702.5	7723.3
82.5°	403.1	408.3	438.2	593.0	423.9	569.6	5441.0	6460.6	5416.3	2710.1
85°	243.2	249.7	262.7	345.9	240.6	270.5	2348.6	2429.2	1619.0	647.6
87.5°	100.1	106.6	117.0	145.6	94.9	75.4	387.5	486.4	303.0	189.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951054  
 CATALOG NUMBER: GALN-SB5B-827-U-SL3

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4437.1	0°	4437.1	4437.1	4437.1	4437.1	4437.1	4437.1	4437.1	4437.1	4437.1	4437.1
4450.1	2.5°	4443.6	4434.5	4409.8	4376.0	4344.8	4305.7	4288.8	4274.5	4261.5	4236.8
4485.2	5°	4470.9	4446.2	4379.9	4294.0	4196.5	4089.9	3985.8	3914.3	3853.2	3807.7
4525.5	7.5°	4512.5	4465.7	4344.8	4169.2	3945.5	3716.6	3509.9	3362.9	3252.4	3212.1
4582.7	10°	4555.4	4499.5	4288.8	3979.3	3593.1	3240.7	2966.3	2815.4	2727.0	2698.4
4650.4	12.5°	4606.1	4524.2	4201.7	3715.3	3199.1	2812.8	2573.6	2485.1	2439.6	2424.0
4733.6	15°	4680.3	4545.0	4070.4	3385.0	2823.2	2500.7	2346.0	2284.9	2261.5	2260.2
4819.4	17.5°	4736.2	4548.9	3866.2	3031.3	2534.5	2312.2	2184.7	2161.3	2176.9	2200.3
4903.9	20°	4798.6	4513.8	3598.3	2708.8	2331.7	2147.0	2093.7	2109.3	2147.0	2180.8
5015.8	22.5°	4842.8	4450.1	3274.5	2457.8	2156.1	2052.1	2049.5	2082.0	2102.8	2119.7
5147.1	25°	4881.8	4342.2	2931.2	2247.2	2011.8	1994.9	2023.5	2013.1	1998.8	2013.1
5278.5	27.5°	4910.4	4171.8	2624.3	2062.5	1910.3	1955.9	1938.9	1915.5	1914.2	1922.0
5433.2	30°	4901.3	3944.2	2372.0	1886.9	1838.8	1883.0	1842.7	1838.8	1834.9	1838.8
5666.0	32.5°	4901.3	3685.4	2178.2	1766.0	1793.3	1776.4	1772.5	1763.4	1747.8	1746.5
5982.0	35°	4928.6	3426.6	2011.8	1701.0	1755.6	1715.3	1717.9	1695.8	1663.3	1647.7
6400.7	37.5°	4984.6	3218.6	1846.6	1669.8	1689.3	1688.0	1677.6	1639.8	1582.6	1533.2
6923.5	40°	5119.8	3157.5	1733.5	1655.5	1658.1	1673.7	1646.4	1573.5	1443.5	1362.9
7454.1	42.5°	5331.8	3260.2	1708.8	1620.3	1637.2	1652.9	1599.5	1430.5	1338.1	1290.0
8010.7	45°	5601.0	3439.7	1762.1	1569.6	1587.8	1615.1	1456.5	1375.9	1334.2	1335.5
8562.1	47.5°	5941.7	3628.2	1860.9	1525.4	1516.3	1531.9	1361.6	1312.1	1254.9	1269.2
9091.3	50°	6335.7	3819.4	1954.6	1465.6	1437.0	1386.3	1300.4	1253.6	1180.8	1147.0
9602.4	52.5°	6762.3	4004.0	1992.3	1392.8	1351.2	1292.6	1258.8	1201.6	1113.2	1057.3
10084.9	55°	7166.7	4171.8	1950.7	1305.6	1265.3	1219.8	1214.6	1179.5	1084.6	1006.5
10514.0	57.5°	7549.0	4312.2	1846.6	1217.2	1178.2	1150.9	1186.0	1169.1	1049.5	949.3
10919.8	60°	7872.8	4408.5	1695.8	1127.5	1100.2	1085.9	1139.2	1134.0	1000.0	888.2
11283.9	62.5°	8130.3	4446.2	1529.3	1041.6	1035.1	1009.1	1074.2	1074.2	937.6	828.4
11603.8	65°	8331.9	4409.8	1360.3	957.1	970.1	931.1	994.8	987.0	871.3	775.1
11971.8	67.5°	8510.0	4290.1	1173.0	873.9	903.8	854.4	911.6	893.4	798.5	721.7
12290.4	70°	8589.4	4011.8	959.7	790.7	827.1	779.0	828.4	794.6	716.5	664.5
11940.6	72.5°	7952.2	3334.3	755.6	703.5	734.7	695.7	738.6	699.6	628.1	604.7
10311.1	75°	6578.9	2502.0	581.3	608.6	632.0	602.1	630.7	602.1	537.1	554.0
7616.6	77.5°	4777.8	1689.3	444.7	508.5	518.9	503.3	528.0	495.5	436.9	433.0
3796.0	80°	2375.9	989.6	348.5	401.8	397.9	387.5	416.1	400.5	351.1	371.9
1024.7	82.5°	687.9	423.9	253.6	282.2	274.4	277.0	297.8	305.6	457.8	453.9
318.6	85°	215.9	166.5	152.2	157.4	149.6	153.5	175.6	348.5	322.5	188.6
98.8	87.5°	55.9	57.2	37.7	40.3	41.6	49.4	55.9	212.0	101.4	66.3
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>
4437.1
4225.1
3770.0
3141.9
2654.2
2427.9
2265.4
2209.4
2192.5
2128.8
2022.2
1935.0
1853.1
1763.4
1663.3
1550.1
1373.3
1290.0
1342.0
1305.6
1156.1
1056.0
1006.5
944.1
884.3
824.5
769.9
716.5
654.1
585.2
505.9
413.5
368.0
464.3
204.2
70.2
0.0

F REPORT)