

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: P954981

Luminaire Tested: **GALN-SB8A-827-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P954981  
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-SB8A-827-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

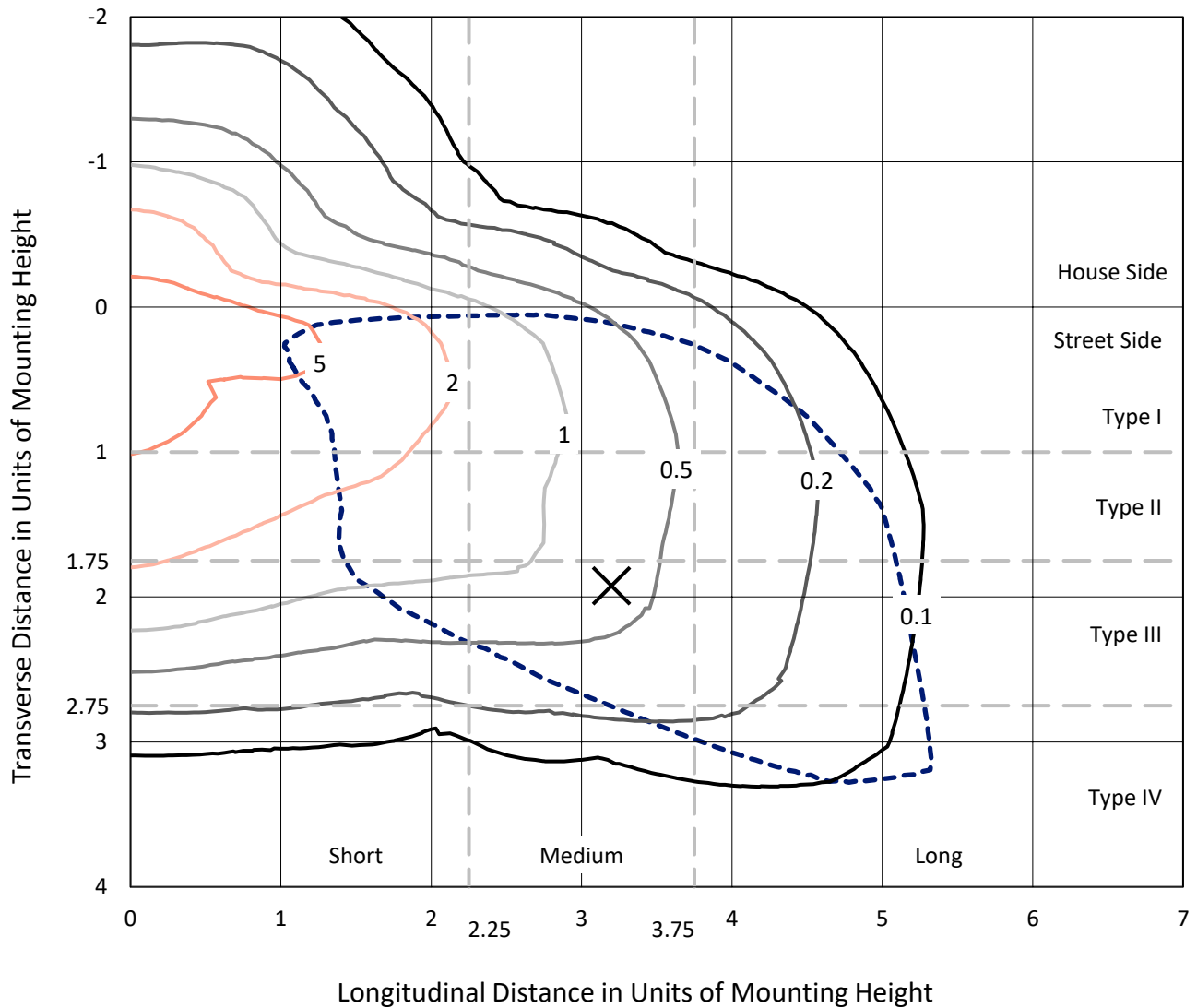
Lumens per Lamp: N/A  
Luminaire Lumens: 30826 lumens  
Efficiency: N/A  
Efficacy: 135.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): 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: P954981  
 CATALOG NUMBER: GALN-SB8A-827-U-SL3

### Iso-Footcandle Lines of Horizontal Illumination

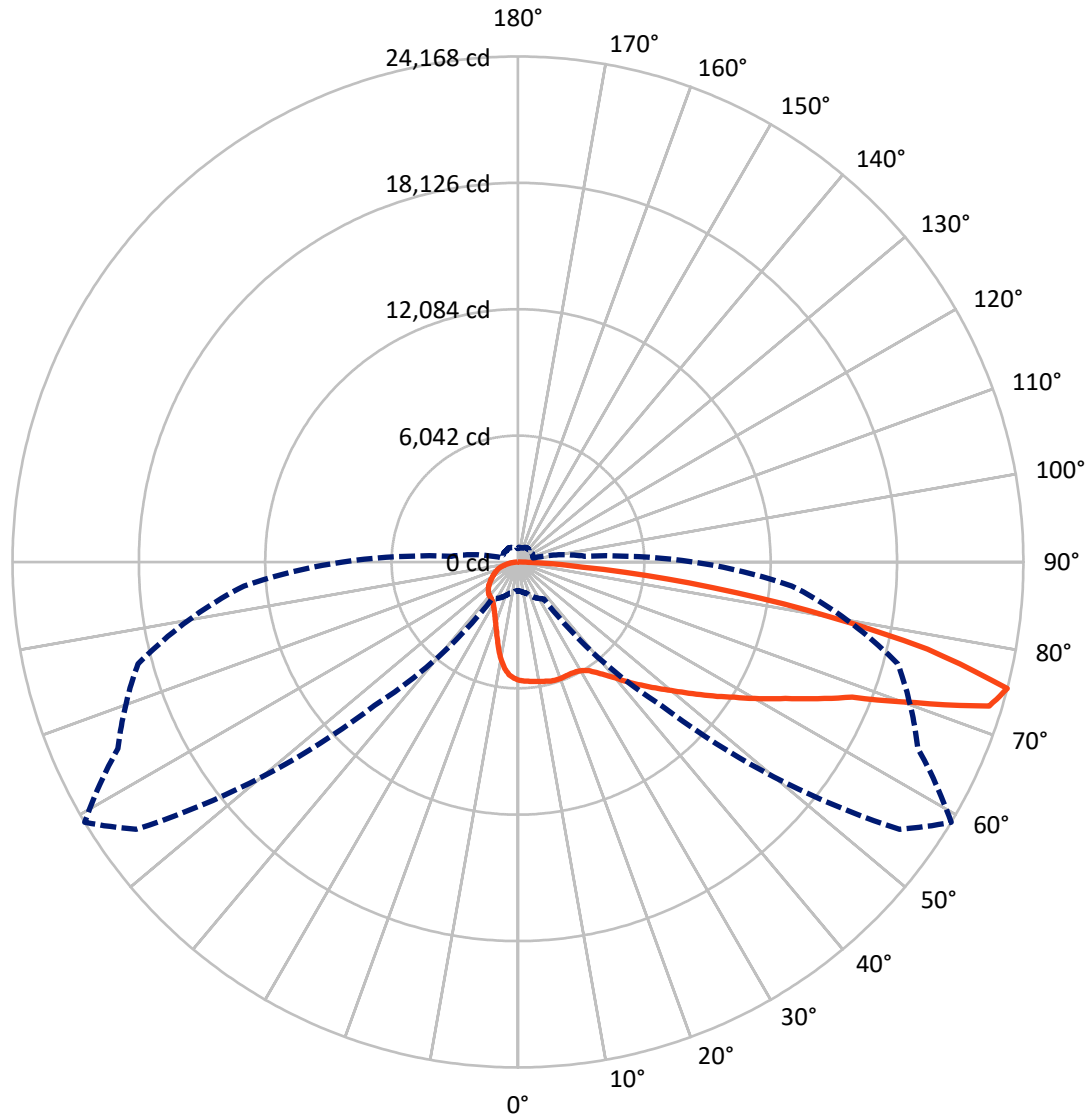
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P954981  
CATALOG NUMBER: GALN-SB8A-827-U-SL3

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P954981  
 CATALOG NUMBER: GALN-SB8A-827-U-SL3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5781.6	0.0	5781.6
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	25044.4	0.0	25044.4
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	30826.0	0.0	30826.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	507.3	1.6
10°-20°	1296.8	4.2
20°-30°	1969.7	6.4
30°-40°	2927.9	9.5
40°-50°	4354.3	14.1
50°-60°	5910.5	19.2
60°-70°	7215.7	23.4
70°-80°	5662.8	18.4
80°-90°	980.9	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°	30826.0	100.0
0°-180°	30826.0	100.0

**Coefficient of Utilization**



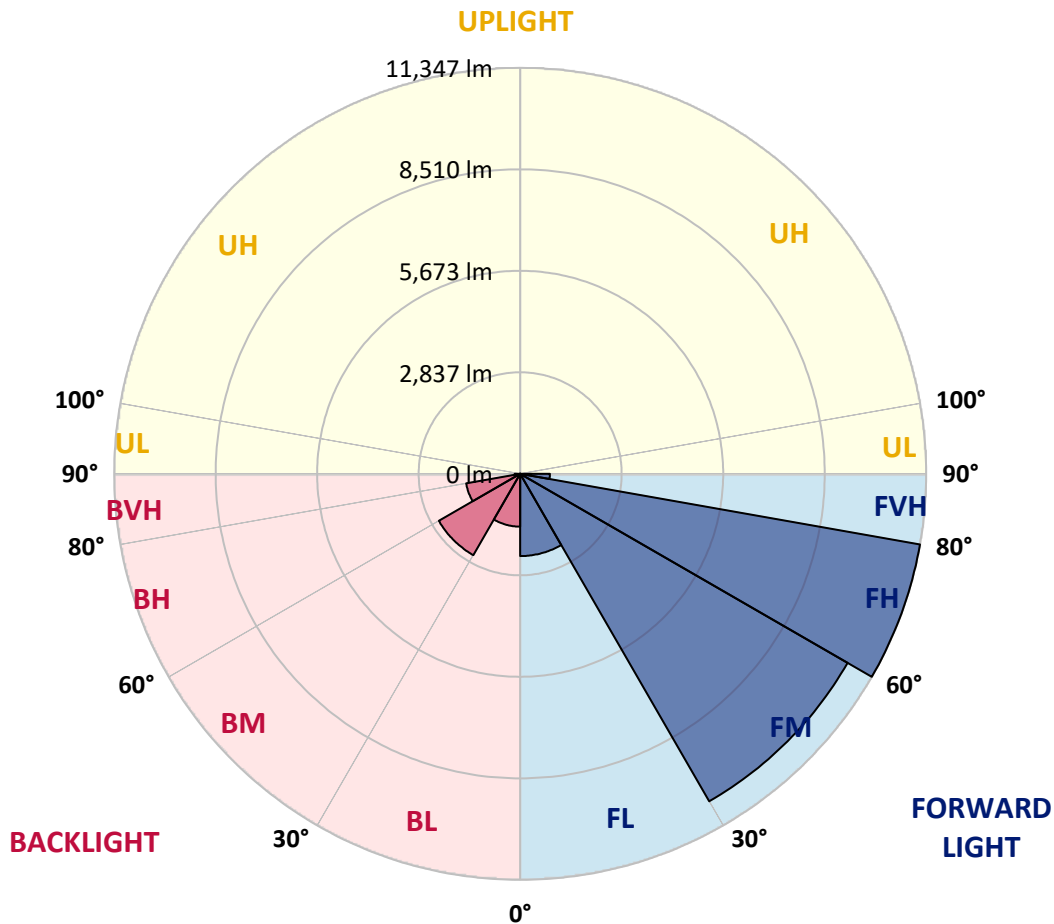
REPORT NUMBER: P954981  
 CATALOG NUMBER: GALN-SB8A-827-U-SL3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2298.4	7.5			
FM (30°-60°)	10568.4	34.3			
FH (60°-80°)	11346.7	36.8			G4/12000
FVH (80°-90°)	830.8	2.7			G5
BL (0°-30°)	1475.4	4.8	B3/2500		
BM (30°-60°)	2624.3	8.5	B3/5000		
BH (60°-80°)	1531.8	5.0	B3/2500		G3/2500
BVH (80°-90°)	150.2	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-G5**

Type IV Medium



REPORT NUMBER: P954981  
 CATALOG NUMBER: GALN-SB8A-827-U-SL3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	5658.0	5658.0	5658.0	5658.0	5658.0	5658.0	5658.0	5658.0	5658.0	5658.0
2.5°	5706.1	5686.2	5706.1	5697.8	5694.5	5687.9	5689.6	5701.2	5694.5	5702.8
5°	5668.0	5656.4	5676.3	5671.3	5692.9	5696.2	5717.7	5731.0	5739.3	5741.0
7.5°	5605.0	5593.4	5621.6	5644.8	5691.2	5704.5	5749.2	5770.8	5782.4	5802.3
10°	5374.5	5369.5	5439.2	5527.0	5636.5	5704.5	5772.5	5808.9	5827.2	5880.3
12.5°	4966.5	4973.2	5064.4	5233.5	5452.4	5671.3	5799.0	5852.1	5880.3	5946.6
15°	4576.8	4575.2	4674.7	4855.4	5162.2	5525.4	5812.3	5903.5	5951.6	6049.4
17.5°	4351.3	4344.7	4414.3	4552.0	4837.2	5301.5	5779.1	5931.7	6034.5	6157.2
20°	4309.9	4296.6	4333.1	4401.1	4603.4	5056.1	5692.9	5931.7	6100.8	6260.0
22.5°	4460.8	4439.2	4424.3	4416.0	4505.5	4853.8	5595.0	5911.8	6198.6	6407.6
25°	4764.2	4731.1	4654.8	4580.2	4553.6	4762.6	5508.8	5906.8	6344.6	6606.6
27.5°	5255.1	5213.6	5059.4	4880.3	4719.5	4809.0	5470.7	5936.6	6505.4	6817.2
30°	5863.7	5818.9	5624.9	5349.6	5061.1	4981.5	5518.7	6024.5	6711.0	7097.4
32.5°	6409.2	6359.5	6193.7	5913.4	5523.7	5280.0	5671.3	6192.0	7034.4	7487.1
35°	6893.5	6835.4	6686.2	6427.5	6090.9	5699.5	5946.6	6488.8	7493.8	8120.6
37.5°	7367.7	7299.7	7137.2	6863.6	6628.1	6258.3	6326.3	6870.2	8104.0	8890.0
40°	7898.4	7800.5	7603.2	7332.9	7104.1	6913.4	6825.5	7337.9	8724.2	9749.0
42.5°	8412.4	8319.6	8084.1	7853.6	7566.7	7512.0	7404.2	7885.1	9402.4	10692.6
45°	8966.3	8855.2	8570.0	8278.1	8097.4	7910.0	7964.7	8432.3	10067.4	11654.4
47.5°	9485.3	9361.0	9024.3	8699.3	8599.8	8245.0	8478.8	9034.3	10758.9	12629.4
50°	9765.6	9642.9	9362.6	9069.1	8991.2	8657.9	9036.0	9695.9	11483.6	13601.2
52.5°	9999.4	9866.8	9500.3	9337.8	9314.5	9107.3	9722.5	10452.1	12208.2	14460.2
55°	10248.2	10100.6	9632.9	9487.0	9593.1	9611.4	10536.7	11309.5	12974.4	15297.6
57.5°	10535.0	10347.7	9760.6	9613.0	9865.1	10201.7	11472.0	12198.3	13727.2	16073.7
60°	10805.3	10616.3	10006.0	9813.7	10158.6	10886.6	12544.9	13274.5	14579.6	16765.2
62.5°	10858.4	10702.5	10201.7	10200.1	10556.6	11685.9	13815.1	14360.7	15324.1	17448.4
65°	9939.7	9841.9	9545.0	10185.1	11127.0	12836.7	15229.6	15750.3	16271.0	18045.4
67.5°	7565.1	7578.3	7556.8	8792.2	10666.0	14490.0	17277.6	17237.8	17440.1	18715.3
70°	3459.2	3537.1	4044.5	6069.3	8545.1	14680.7	20663.8	20148.1	18907.7	19582.6
72.5°	1868.9	1928.6	2135.9	2940.1	5137.3	13052.3	23194.3	23560.8	20859.5	20166.3
75°	1371.4	1404.6	1548.8	1868.9	2157.4	9700.9	22287.3	24167.7	21103.2	18804.9
77.5°	1026.5	1041.4	1159.1	1480.8	1104.4	5114.1	17808.2	20015.4	18065.3	15450.2
80°	744.6	761.1	849.0	1111.0	774.4	1870.5	12228.1	14048.9	12372.4	9848.5
82.5°	514.1	520.7	558.8	756.2	540.6	726.3	6938.2	8238.3	6906.7	3455.9
85°	310.1	318.4	335.0	441.1	306.8	344.9	2994.8	3097.7	2064.6	825.8
87.5°	127.7	136.0	149.2	185.7	121.1	96.2	494.2	620.2	386.4	242.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P954981  
 CATALOG NUMBER: GALN-SB8A-827-U-SL3

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5658.0	0°	5658.0	5658.0	5658.0	5658.0	5658.0	5658.0	5658.0	5658.0	5658.0	5658.0
5674.6	2.5°	5666.3	5654.7	5623.2	5580.1	5540.3	5490.6	5469.0	5450.8	5434.2	5402.7
5719.4	5°	5701.2	5669.7	5585.1	5475.6	5351.3	5215.3	5082.6	4991.4	4913.5	4855.4
5770.8	7.5°	5754.2	5694.5	5540.3	5316.4	5031.2	4739.4	4475.7	4288.3	4147.4	4095.9
5843.8	10°	5808.9	5737.6	5469.0	5074.3	4581.8	4132.4	3782.5	3590.2	3477.4	3440.9
5930.0	12.5°	5873.6	5769.1	5357.9	4737.7	4079.4	3586.9	3281.7	3169.0	3110.9	3091.0
6036.1	15°	5968.1	5795.7	5190.4	4316.5	3600.1	3188.9	2991.5	2913.6	2883.7	2882.1
6145.6	17.5°	6039.4	5800.7	4930.1	3865.4	3232.0	2948.4	2785.9	2756.1	2776.0	2805.8
6253.4	20°	6119.0	5755.9	4588.5	3454.2	2973.3	2737.8	2669.8	2689.7	2737.8	2780.9
6396.0	22.5°	6175.4	5674.6	4175.5	3134.1	2749.4	2616.8	2613.4	2654.9	2681.4	2703.0
6563.5	25°	6225.2	5537.0	3737.8	2865.5	2565.4	2543.8	2580.3	2567.0	2548.8	2567.0
6730.9	27.5°	6261.7	5319.8	3346.4	2630.0	2436.0	2494.0	2472.5	2442.6	2441.0	2450.9
6928.3	30°	6250.0	5029.6	3024.7	2406.2	2344.8	2401.2	2349.8	2344.8	2339.8	2344.8
7225.1	32.5°	6250.0	4699.6	2777.6	2251.9	2286.8	2265.2	2260.2	2248.6	2228.7	2227.1
7628.1	35°	6284.9	4369.6	2565.4	2169.0	2238.7	2187.3	2190.6	2162.4	2120.9	2101.0
8162.0	37.5°	6356.2	4104.2	2354.8	2129.2	2154.1	2152.4	2139.2	2091.1	2018.1	1955.1
8828.7	40°	6528.6	4026.3	2210.5	2111.0	2114.3	2134.2	2099.4	2006.5	1840.7	1737.9
9505.2	42.5°	6798.9	4157.3	2179.0	2066.2	2087.8	2107.7	2039.7	1824.1	1706.4	1645.0
10215.0	45°	7142.2	4386.1	2247.0	2001.5	2024.8	2059.6	1857.3	1754.5	1701.4	1703.1
10918.1	47.5°	7576.7	4626.6	2373.0	1945.2	1933.6	1953.5	1736.2	1673.2	1600.2	1618.5
11593.0	50°	8079.1	4870.4	2492.4	1868.9	1832.4	1767.7	1658.3	1598.6	1505.7	1462.6
12244.7	52.5°	8623.0	5105.8	2540.5	1776.0	1723.0	1648.3	1605.2	1532.2	1419.5	1348.2
12859.9	55°	9138.8	5319.8	2487.4	1664.9	1613.5	1555.5	1548.8	1504.1	1383.0	1283.5
13407.2	57.5°	9626.3	5498.8	2354.8	1552.1	1502.4	1467.6	1512.3	1490.8	1338.2	1210.5
13924.6	60°	10039.2	5621.6	2162.4	1437.7	1402.9	1384.7	1452.7	1446.0	1275.2	1132.6
14388.9	62.5°	10367.6	5669.7	1950.1	1328.3	1320.0	1286.8	1369.7	1369.7	1195.6	1056.3
14796.8	65°	10624.6	5623.2	1734.6	1220.5	1237.1	1187.3	1268.6	1258.6	1111.0	988.3
15266.1	67.5°	10851.8	5470.7	1495.8	1114.4	1152.5	1089.5	1162.5	1139.2	1018.2	920.3
15672.4	70°	10952.9	5115.8	1223.8	1008.2	1054.7	993.3	1056.3	1013.2	913.7	847.4
15226.3	72.5°	10140.4	4251.8	963.5	897.1	936.9	887.2	941.9	892.2	800.9	771.1
13148.5	75°	8389.2	3190.5	741.3	776.1	805.9	767.8	804.3	767.8	684.9	706.4
9712.5	77.5°	6092.5	2154.1	567.1	648.4	661.7	641.8	673.3	631.8	557.2	552.2
4840.5	80°	3029.7	1261.9	444.4	512.4	507.4	494.2	530.6	510.7	447.7	474.3
1306.7	82.5°	877.2	540.6	323.4	359.8	349.9	353.2	379.7	389.7	583.7	578.7
406.3	85°	275.3	212.3	194.0	200.7	190.7	195.7	223.9	444.4	411.3	240.5
126.0	87.5°	71.3	73.0	48.1	51.4	53.1	63.0	71.3	270.3	129.3	84.6
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>
5658.0
5387.7
4807.3
4006.4
3384.5
3096.0
2888.7
2817.4
2795.9
2714.6
2578.6
2467.5
2363.0
2248.6
2120.9
1976.7
1751.1
1645.0
1711.3
1664.9
1474.2
1346.5
1283.5
1203.9
1127.6
1051.3
981.7
913.7
834.1
746.2
645.1
527.3
469.3
592.0
260.3
89.5
0.0

F REPORT)