

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: P956451

Luminaire Tested: **GALN-SB9A-835-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956451  
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-SB9A-835-U-SL3  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

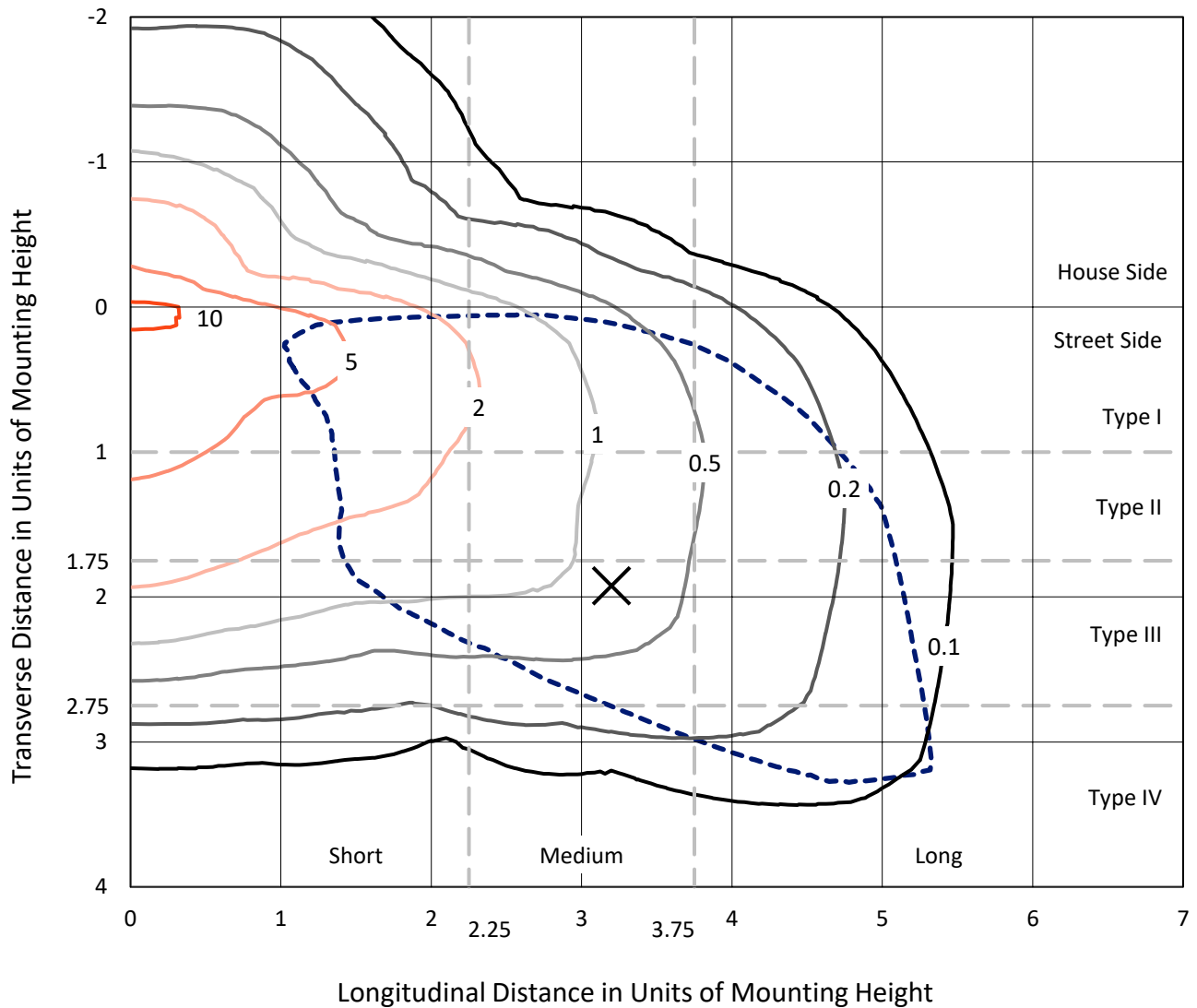
Lumens per Lamp: N/A  
Luminaire Lumens: 37038 lumens  
Efficiency: N/A  
Efficacy: 145.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): 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: P956451  
 CATALOG NUMBER: GALN-SB9A-835-U-SL3

### Iso-Footcandle Lines of Horizontal Illumination

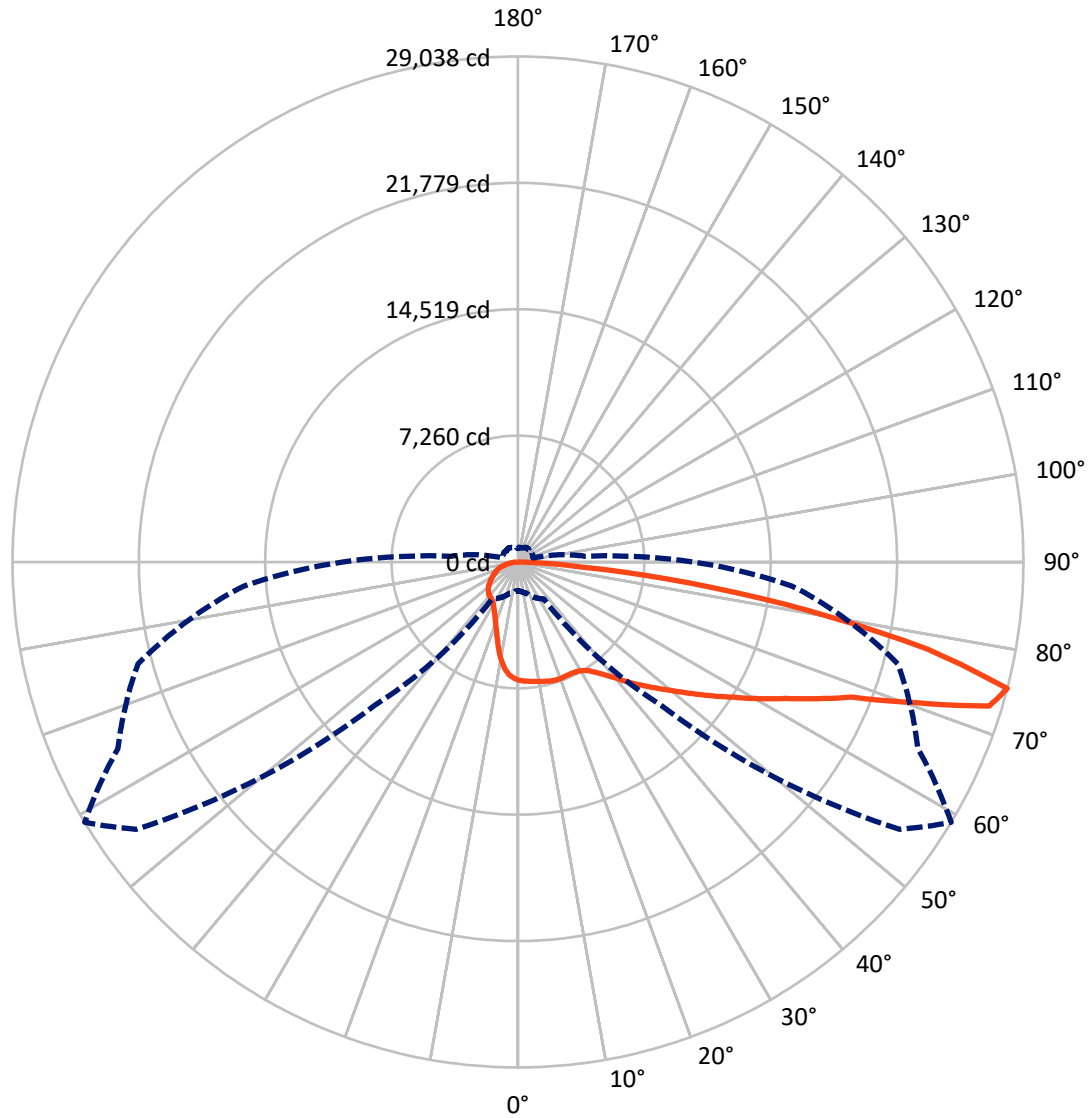
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P956451  
CATALOG NUMBER: GALN-SB9A-835-U-SL3

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P956451  
 CATALOG NUMBER: GALN-SB9A-835-U-SL3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6946.7	0.0	6946.7
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	30091.3	0.0	30091.3
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	37038.0	0.0	37038.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	609.6	1.6
10°-20°	1558.1	4.2
20°-30°	2366.6	6.4
30°-40°	3517.9	9.5
40°-50°	5231.8	14.1
50°-60°	7101.5	19.2
60°-70°	8669.8	23.4
70°-80°	6804.0	18.4
80°-90°	1178.6	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°	37038.0	100.0
0°-180°	37038.0	100.0



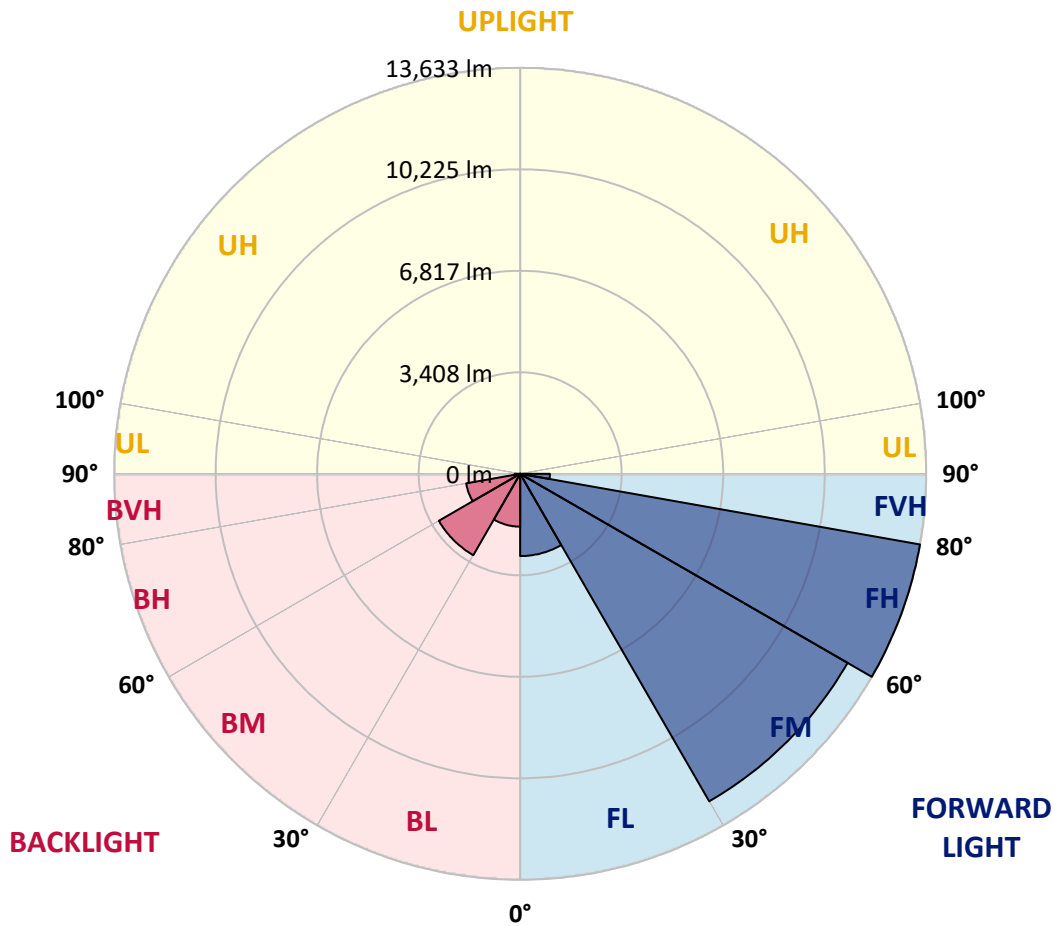
REPORT NUMBER: P956451  
 CATALOG NUMBER: GALN-SB9A-835-U-SL3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2761.6	7.5			
FM (30°-60°)	12698.2	34.3			
FH (60°-80°)	13633.3	36.8			G5
FVH (80°-90°)	998.2	2.7			G5
BL (0°-30°)	1772.7	4.8	B3/2500		
BM (30°-60°)	3153.1	8.5	B3/5000		
BH (60°-80°)	1840.5	5.0	B3/2500		G3/2500
BVH (80°-90°)	180.4	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: P956451  
 CATALOG NUMBER: GALN-SB9A-835-U-SL3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	6798.2	6798.2	6798.2	6798.2	6798.2	6798.2	6798.2	6798.2	6798.2	6798.2
2.5°	6856.0	6832.1	6856.0	6846.1	6842.1	6834.1	6836.1	6850.0	6842.1	6852.0
5°	6810.2	6796.2	6820.2	6814.2	6840.1	6844.1	6870.0	6885.9	6895.9	6897.9
7.5°	6734.5	6720.5	6754.4	6782.3	6838.1	6854.0	6907.8	6933.7	6947.7	6971.6
10°	6457.5	6451.6	6535.2	6640.8	6772.3	6854.0	6935.7	6979.6	7001.5	7065.2
12.5°	5967.4	5975.4	6084.9	6288.2	6551.2	6814.2	6967.6	7031.4	7065.2	7144.9
15°	5499.2	5497.2	5616.7	5833.9	6202.5	6638.8	6983.5	7093.1	7150.9	7268.5
17.5°	5228.2	5220.2	5303.9	5469.3	5812.0	6369.9	6943.7	7127.0	7250.5	7398.0
20°	5178.4	5162.4	5206.3	5288.0	5531.0	6075.0	6840.1	7127.0	7330.2	7521.5
22.5°	5359.7	5333.8	5315.9	5305.9	5413.5	5831.9	6722.5	7103.1	7447.8	7698.8
25°	5724.3	5684.5	5592.8	5503.1	5471.3	5722.3	6618.9	7097.1	7623.1	7937.9
27.5°	6314.1	6264.3	6079.0	5863.8	5670.5	5778.1	6573.1	7133.0	7816.4	8191.0
30°	7045.3	6991.5	6758.4	6427.6	6081.0	5985.3	6630.9	7238.6	8063.4	8527.7
32.5°	7700.8	7641.0	7441.8	7105.1	6636.9	6344.0	6814.2	7439.8	8452.0	8995.9
35°	8282.6	8212.9	8033.6	7722.7	7318.3	6848.1	7144.9	7796.5	9003.9	9757.0
37.5°	8852.5	8770.8	8575.5	8246.8	7963.8	7519.5	7601.2	8254.7	9737.1	10681.5
40°	9490.0	9372.5	9135.4	8810.6	8535.7	8306.5	8200.9	8816.6	10482.3	11713.6
42.5°	10107.7	9996.1	9713.2	9436.2	9091.6	9025.8	8896.3	9474.1	11297.2	12847.3
45°	10773.2	10639.7	10297.0	9946.3	9729.1	9504.0	9569.7	10131.6	12096.2	14002.9
47.5°	11396.8	11247.4	10842.9	10452.4	10332.9	9906.5	10187.4	10854.9	12927.0	15174.5
50°	11733.5	11586.1	11249.4	10896.7	10803.1	10402.6	10856.9	11649.9	13797.7	16342.1
52.5°	12014.5	11855.1	11414.8	11219.5	11191.6	10942.5	11681.7	12558.4	14668.4	17374.2
55°	12313.3	12136.0	11574.1	11398.8	11526.3	11548.2	12660.0	13588.5	15588.9	18380.4
57.5°	12658.0	12432.9	11727.6	11550.2	11853.1	12257.6	13783.8	14656.5	16493.5	19312.8
60°	12982.8	12755.7	12022.4	11791.3	12205.8	13080.4	15072.9	15949.6	17517.6	20143.7
62.5°	13046.6	12859.3	12257.6	12255.6	12683.9	14040.8	16599.1	17254.6	18412.2	20964.6
65°	11942.8	11825.2	11468.5	12237.6	13369.3	15423.6	18298.7	18924.3	19549.9	21681.9
67.5°	9089.6	9105.5	9079.6	10564.0	12815.4	17410.0	20759.3	20711.5	20954.6	22486.8
70°	4156.3	4249.9	4859.6	7292.4	10267.1	17639.2	24827.9	24208.3	22717.9	23528.9
72.5°	2245.5	2317.2	2566.3	3532.6	6172.6	15682.6	27868.4	28308.7	25063.0	24230.2
75°	1647.8	1687.6	1860.9	2245.5	2592.2	11655.8	26778.5	29038.0	25355.9	22594.4
77.5°	1233.3	1251.3	1392.7	1779.3	1327.0	6144.7	21396.9	24048.9	21705.8	18563.7
80°	894.6	914.5	1020.1	1334.9	930.5	2247.5	14692.3	16880.0	14865.7	11833.2
82.5°	617.7	625.6	671.5	908.6	649.5	872.7	8336.4	9898.5	8298.6	4152.3
85°	372.6	382.6	402.5	530.0	368.6	414.4	3598.4	3721.9	2480.6	992.2
87.5°	153.4	163.4	179.3	223.2	145.4	115.6	593.8	745.2	464.2	290.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956451  
 CATALOG NUMBER: GALN-SB9A-835-U-SL3

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6798.2	0°	6798.2	6798.2	6798.2	6798.2	6798.2	6798.2	6798.2	6798.2	6798.2	6798.2
6818.2	2.5°	6808.2	6794.3	6756.4	6704.6	6656.8	6597.0	6571.1	6549.2	6529.3	6491.4
6872.0	5°	6850.0	6812.2	6710.6	6579.1	6429.6	6266.3	6106.9	5997.3	5903.6	5833.9
6933.7	7.5°	6913.8	6842.1	6656.8	6387.8	6045.1	5694.4	5377.6	5152.5	4983.1	4921.4
7021.4	10°	6979.6	6893.9	6571.1	6096.9	5505.1	4965.2	4544.8	4313.7	4178.2	4134.3
7125.0	12.5°	7057.3	6931.7	6437.6	5692.4	4901.4	4309.7	3943.1	3807.6	3737.8	3713.9
7252.5	15°	7170.8	6963.6	6236.4	5186.3	4325.6	3831.5	3594.4	3500.7	3464.9	3462.9
7384.0	17.5°	7256.5	6969.6	5923.6	4644.4	3883.3	3542.6	3347.3	3311.5	3335.4	3371.2
7513.5	20°	7352.1	6915.8	5513.1	4150.3	3572.5	3289.5	3207.8	3231.8	3289.5	3341.3
7684.9	22.5°	7419.9	6818.2	5017.0	3765.7	3303.5	3144.1	3140.1	3189.9	3221.8	3247.7
7886.1	25°	7479.7	6652.8	4491.0	3443.0	3082.3	3056.4	3100.3	3084.3	3062.4	3084.3
8087.4	27.5°	7523.5	6391.8	4020.8	3160.0	2926.9	2996.6	2970.7	2934.9	2932.9	2944.8
8324.5	30°	7509.5	6043.1	3634.2	2891.0	2817.3	2885.1	2823.3	2817.3	2811.3	2817.3
8681.1	32.5°	7509.5	5646.6	3337.4	2705.7	2747.6	2721.7	2715.7	2701.8	2677.9	2675.9
9165.3	35°	7551.4	5250.1	3082.3	2606.1	2689.8	2628.0	2632.0	2598.2	2548.3	2524.4
9806.8	37.5°	7637.1	4931.3	2829.3	2558.3	2588.2	2586.2	2570.3	2512.5	2424.8	2349.1
10607.8	40°	7844.3	4837.7	2655.9	2536.4	2540.4	2564.3	2522.4	2410.9	2211.6	2088.1
11420.7	42.5°	8169.0	4995.1	2618.1	2482.6	2508.5	2532.4	2450.7	2191.7	2050.2	1976.5
12273.5	45°	8581.5	5270.0	2699.8	2404.9	2432.8	2474.6	2231.5	2108.0	2044.3	2046.2
13118.3	47.5°	9103.5	5558.9	2851.2	2337.1	2323.2	2347.1	2086.1	2010.4	1922.7	1944.6
13929.2	50°	9707.2	5851.8	2994.7	2245.5	2201.7	2124.0	1992.5	1920.7	1809.1	1757.3
14712.3	52.5°	10360.7	6134.8	3052.4	2133.9	2070.2	1980.5	1928.7	1841.0	1705.5	1619.9
15451.5	55°	10980.4	6391.8	2988.7	2000.4	1938.7	1868.9	1860.9	1807.2	1661.7	1542.2
16109.0	57.5°	11566.2	6607.0	2829.3	1864.9	1805.2	1763.3	1817.1	1791.2	1607.9	1454.5
16730.6	60°	12062.3	6754.4	2598.2	1727.5	1685.6	1663.7	1745.4	1737.4	1532.2	1360.8
17288.5	62.5°	12456.8	6812.2	2343.1	1596.0	1586.0	1546.1	1645.8	1645.8	1436.6	1269.2
17778.6	65°	12765.6	6756.4	2084.1	1466.4	1486.4	1426.6	1524.2	1512.3	1334.9	1187.5
18342.5	67.5°	13038.6	6573.1	1797.2	1338.9	1384.8	1309.0	1396.7	1368.8	1223.4	1105.8
18830.7	70°	13160.1	6146.7	1470.4	1211.4	1267.2	1193.5	1269.2	1217.4	1097.8	1018.1
18294.7	72.5°	12183.8	5108.6	1157.6	1077.9	1125.7	1066.0	1131.7	1071.9	962.4	926.5
15798.1	75°	10079.8	3833.5	890.6	932.5	968.3	922.5	966.3	922.5	822.9	848.8
11669.8	77.5°	7320.3	2588.2	681.4	779.0	795.0	771.1	808.9	759.1	669.5	663.5
5816.0	80°	3640.2	1516.3	534.0	615.7	609.7	593.8	637.6	613.7	538.0	569.8
1570.1	82.5°	1054.0	649.5	388.5	432.4	420.4	424.4	456.3	468.2	701.3	695.4
488.2	85°	330.7	255.0	233.1	241.1	229.1	235.1	269.0	534.0	494.1	288.9
151.4	87.5°	85.7	87.7	57.8	61.8	63.8	75.7	85.7	324.8	155.4	101.6
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>
6798.2
6473.5
5776.1
4813.8
4066.6
3719.9
3470.8
3385.2
3359.3
3261.6
3098.3
2964.8
2839.2
2701.8
2548.3
2375.0
2104.0
1976.5
2056.2
2000.4
1771.3
1617.9
1542.2
1446.5
1354.9
1263.2
1179.5
1097.8
1002.2
896.6
775.1
633.6
563.9
711.3
312.8
107.6
0.0

F REPORT)