

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: P945159

Luminaire Tested: **GALN-SB1A-940-U-T2R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945159  
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-SB1A-940-U-T2R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 90 CRI, 4000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

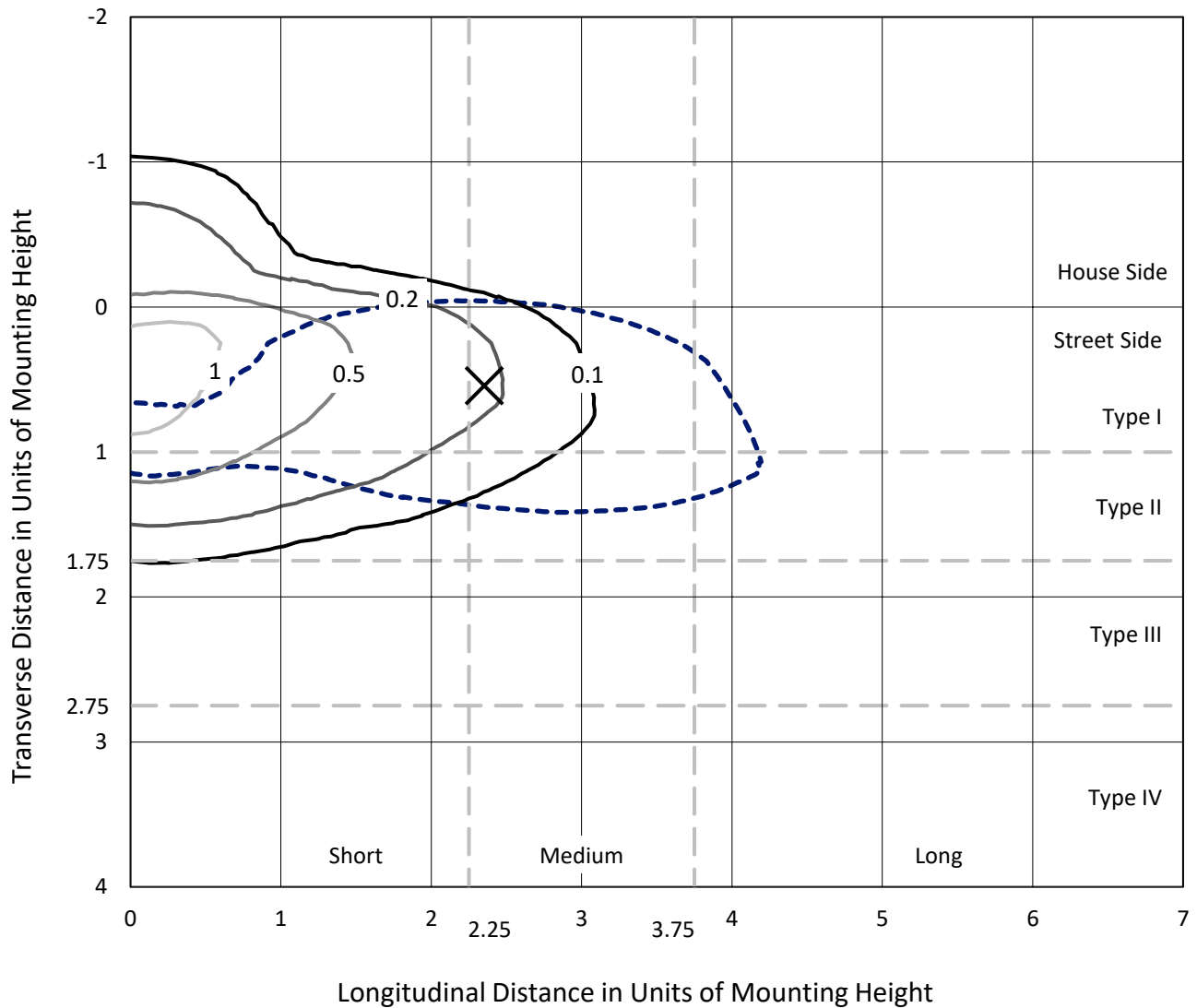
Lumens per Lamp: N/A  
Luminaire Lumens: 3312 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P945159  
 CATALOG NUMBER: GALN-SB1A-940-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

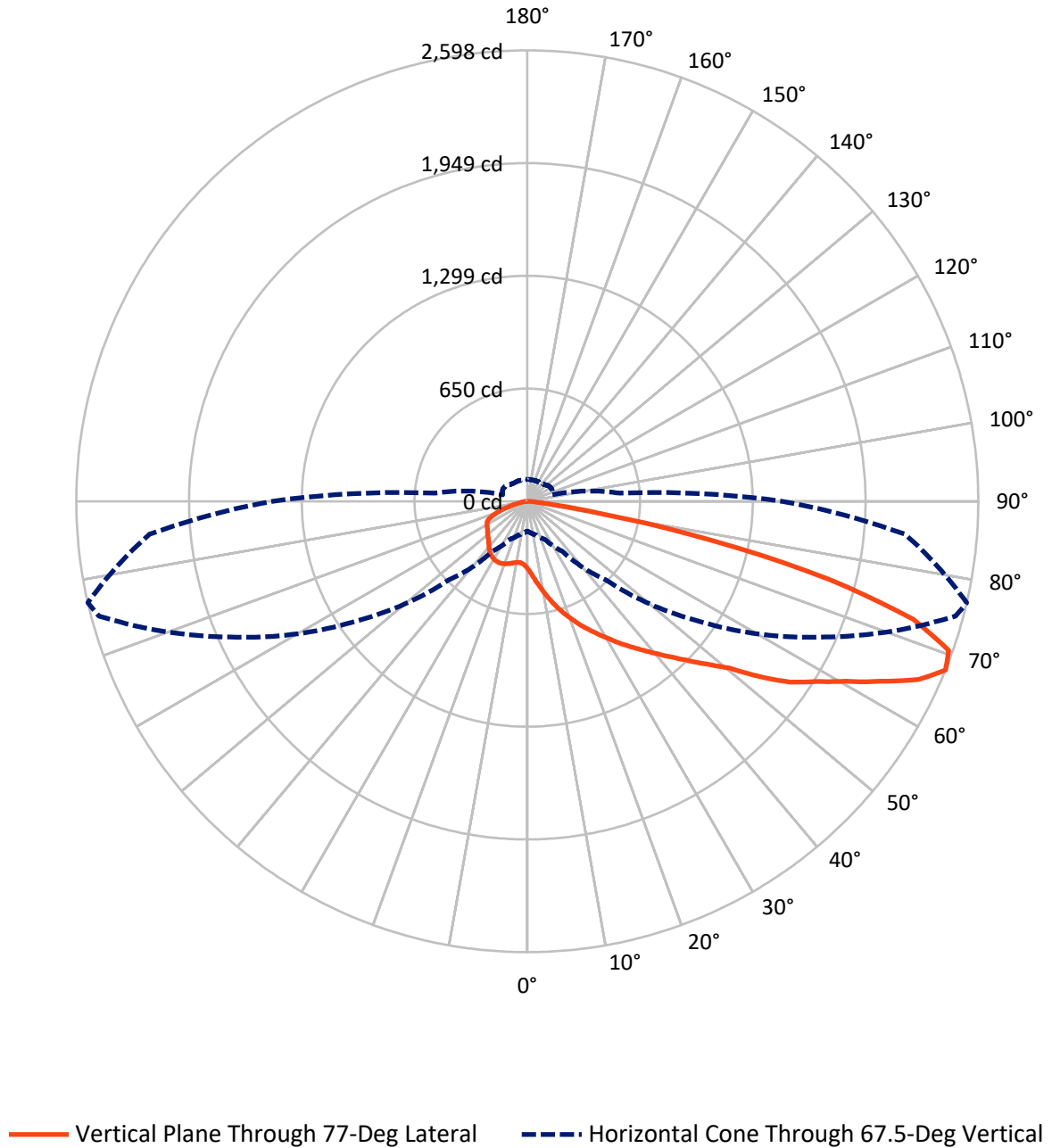
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type II - Medium - N/A

REPORT NUMBER: P945159  
CATALOG NUMBER: GALN-SB1A-940-U-T2R

### Luminous Intensity Polar Plot



REPORT NUMBER: P945159  
 CATALOG NUMBER: GALN-SB1A-940-U-T2R

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	626.5	0.0	626.5
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	2685.5	0.0	2685.5
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	3312.0	0.0	3312.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.7	1.3
10°-20°	149.6	4.5
20°-30°	282.5	8.5
30°-40°	455.2	13.7
40°-50°	622.6	18.8
50°-60°	702.3	21.2
60°-70°	655.5	19.8
70°-80°	359.3	10.8
80°-90°	43.3	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°	3312.0	100.0
0°-180°	3312.0	100.0

**Coefficient of Utilization**



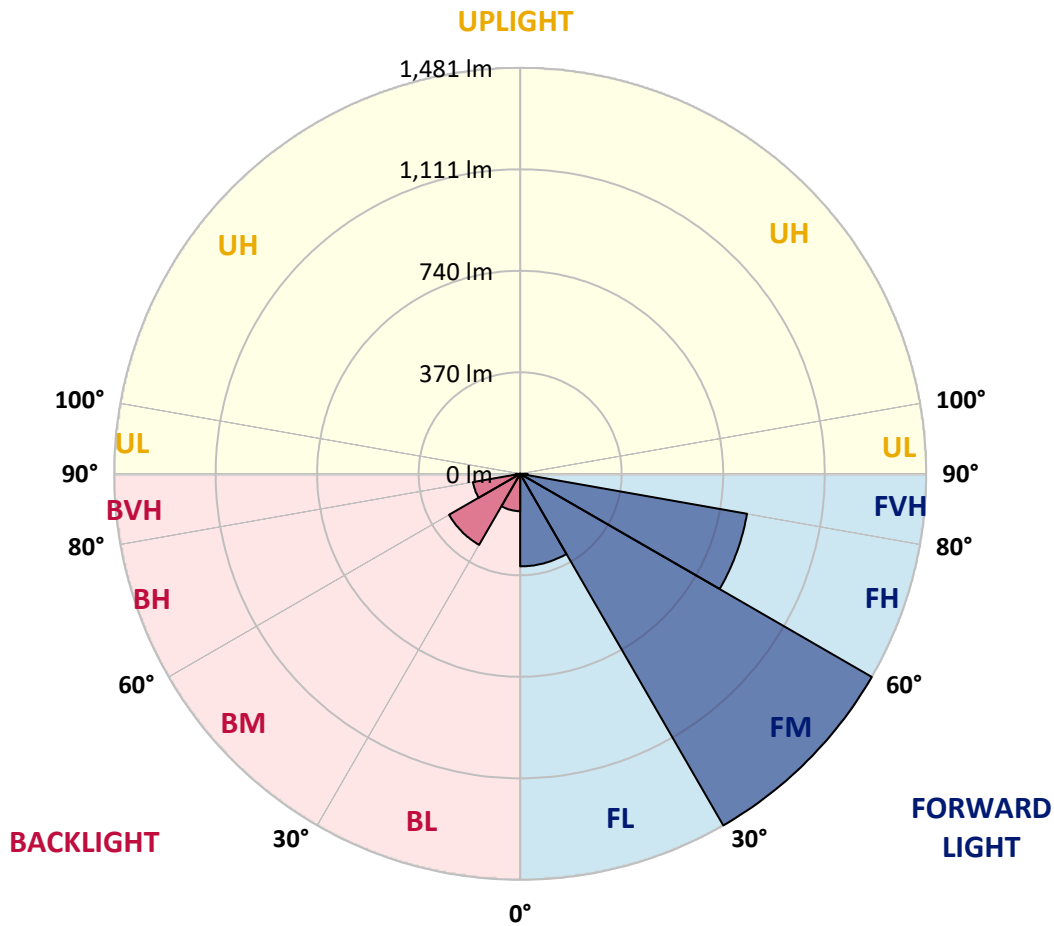
REPORT NUMBER: P945159  
 CATALOG NUMBER: GALN-SB1A-940-U-T2R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	337.6	10.2			
FM (30°-60°)	1480.8	44.7			
FH (60°-80°)	840.0	25.4			G1/1800
FVH (80°-90°)	27.1	0.8			G1/100
BL (0°-30°)	136.2	4.1	B1/500		
BM (30°-60°)	299.3	9.0	B1/1000		
BH (60°-80°)	174.8	5.3	B1/500		G1/500
BVH (80°-90°)	16.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Medium



REPORT NUMBER: P945159  
 CATALOG NUMBER: GALN-SB1A-940-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	388.6	388.6	388.6	388.6	388.6	388.6	388.6	388.6	388.6	388.6
2.5°	486.6	490.0	485.7	485.7	471.3	463.8	449.5	438.5	418.9	415.4
5°	575.1	579.4	573.4	570.8	553.9	538.4	514.3	490.5	455.4	451.9
7.5°	643.7	649.1	643.8	641.1	626.1	608.6	580.4	547.3	497.8	490.8
10°	699.6	700.4	698.7	699.8	688.0	673.6	644.7	606.1	544.3	534.8
12.5°	731.2	735.1	738.6	744.7	742.7	733.8	707.8	661.6	593.6	581.3
15°	746.1	752.9	760.6	774.8	786.3	788.5	768.7	721.3	643.7	628.8
17.5°	751.4	757.9	770.0	790.5	815.2	831.7	822.8	779.3	693.3	676.2
20°	778.2	780.1	787.5	806.9	833.6	861.1	867.8	835.0	742.3	723.0
22.5°	835.7	831.9	834.0	842.9	862.0	888.7	903.9	884.2	792.8	770.5
25°	930.6	919.6	908.7	898.4	908.2	923.2	940.5	933.5	845.6	817.4
27.5°	1050.4	1037.1	1013.0	979.3	967.5	972.8	980.5	979.1	894.5	865.9
30°	1168.4	1152.8	1124.1	1075.4	1044.2	1030.2	1024.4	1020.5	947.7	917.2
32.5°	1262.6	1250.3	1222.0	1167.5	1122.4	1098.4	1079.1	1065.1	1003.2	972.8
35°	1345.0	1333.5	1301.2	1241.7	1192.6	1167.2	1141.9	1111.9	1061.0	1030.2
37.5°	1420.2	1408.7	1364.5	1302.6	1253.2	1235.6	1213.0	1162.2	1119.0	1089.9
40°	1467.7	1465.2	1423.8	1353.7	1302.4	1293.7	1286.2	1220.5	1183.2	1156.2
42.5°	1479.9	1485.5	1452.7	1395.1	1346.2	1339.2	1356.8	1286.5	1255.4	1229.6
45°	1450.6	1466.9	1445.3	1406.2	1377.3	1373.5	1419.3	1358.6	1335.2	1311.6
47.5°	1376.6	1404.1	1395.2	1389.8	1385.7	1401.9	1474.4	1435.2	1425.7	1405.2
50°	1227.2	1279.3	1294.9	1329.4	1369.1	1424.0	1524.5	1518.8	1531.3	1510.6
52.5°	968.9	1040.7	1130.9	1217.4	1318.1	1416.6	1579.5	1638.9	1691.5	1680.2
55°	799.8	832.1	901.5	1060.1	1219.3	1385.7	1604.3	1735.8	1850.5	1840.4
57.5°	669.8	698.7	741.5	874.0	1069.9	1315.4	1619.7	1794.9	1959.4	1958.4
60°	530.5	561.1	604.9	698.7	895.3	1194.0	1616.3	1862.3	2098.4	2107.0
62.5°	373.2	406.9	455.4	543.0	717.0	1036.7	1546.5	1911.0	2262.0	2285.3
65°	245.3	267.6	304.1	379.7	534.3	834.5	1413.4	1917.4	2437.1	2476.4
67.5°	172.0	180.5	202.1	243.1	352.2	639.9	1201.2	1851.9	2553.9	2598.1
70°	134.2	138.5	149.4	165.8	221.2	430.3	920.5	1681.6	2528.9	2575.1
72.5°	115.9	120.0	124.1	126.2	148.4	265.7	623.5	1406.0	2293.8	2325.1
75°	105.1	106.2	109.6	108.9	113.2	172.3	359.9	1024.4	1809.8	1799.1
77.5°	88.4	89.8	95.4	94.5	100.5	117.8	186.9	661.1	1173.3	1100.2
80°	74.9	75.6	81.7	80.7	87.4	85.3	95.4	337.0	497.7	421.6
82.5°	26.0	32.1	62.4	64.3	66.7	51.6	55.1	137.5	152.0	116.4
85°	12.7	13.5	31.8	45.1	45.0	26.0	26.8	49.1	47.9	37.6
87.5°	2.1	2.6	3.8	17.6	14.0	6.8	9.2	9.6	9.9	8.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945159  
 CATALOG NUMBER: GALN-SB1A-940-U-T2R

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
388.6	0°	388.6	388.6	388.6	388.6	388.6	388.6	388.6	388.6	388.6	388.6
402.4	2.5°	392.9	384.3	366.4	349.8	336.8	324.3	317.3	311.3	307.9	307.2
421.3	5°	403.5	385.9	353.2	325.7	307.7	294.4	287.4	282.9	280.7	279.4
446.6	7.5°	418.7	392.9	346.4	315.1	296.3	286.7	283.1	282.4	282.3	282.4
477.2	10°	439.7	404.3	345.7	312.5	296.8	291.5	291.3	291.5	292.2	292.3
510.5	12.5°	462.5	416.1	348.4	314.7	303.3	300.4	299.9	299.7	300.2	300.6
544.2	15°	487.2	431.7	353.0	319.5	310.5	307.4	306.9	305.9	305.7	305.5
579.6	17.5°	512.7	447.1	358.2	324.7	315.1	310.8	308.9	306.5	304.7	304.1
616.2	20°	538.5	462.3	361.8	327.2	315.4	309.4	305.7	301.6	298.3	296.5
653.1	22.5°	566.1	478.2	364.0	326.5	312.4	304.1	297.3	292.5	287.6	284.3
690.4	25°	592.9	492.0	363.8	323.0	306.4	295.9	287.2	281.1	274.2	270.8
728.8	27.5°	618.7	504.5	359.5	316.6	297.8	286.2	275.8	268.4	261.7	258.5
767.6	30°	645.4	514.9	352.9	307.4	287.7	274.9	263.5	257.1	251.1	248.1
808.7	32.5°	671.9	524.5	343.5	295.9	276.1	263.8	252.5	246.7	243.1	243.1
852.8	35°	699.9	531.2	331.0	282.6	263.8	252.0	243.1	239.7	239.3	237.3
899.4	37.5°	729.5	535.5	315.8	268.9	251.7	240.5	237.8	233.7	230.3	225.8
950.7	40°	760.6	539.7	297.5	254.7	238.8	232.7	231.5	226.0	216.3	205.3
1008.9	42.5°	798.4	542.6	278.5	240.5	225.3	223.3	225.0	215.6	200.0	191.8
1079.0	45°	842.2	547.4	261.1	226.5	211.5	211.5	218.7	206.4	193.5	188.4
1159.0	47.5°	898.9	558.5	244.8	211.1	198.7	202.1	204.6	195.2	188.1	181.7
1256.4	50°	981.0	585.2	228.1	195.6	188.9	195.8	192.2	186.7	178.3	173.2
1411.3	52.5°	1082.9	600.9	213.2	181.6	180.5	187.4	182.2	177.1	170.8	164.0
1528.8	55°	1152.3	603.8	200.7	171.3	174.9	174.2	172.3	167.7	164.3	155.2
1644.7	57.5°	1229.9	609.7	190.5	165.2	171.3	163.8	163.1	159.2	154.7	148.6
1786.1	60°	1322.7	618.7	181.6	162.8	168.2	156.9	153.5	152.0	147.5	144.5
1956.2	62.5°	1424.0	626.9	172.5	163.1	164.6	150.3	145.1	144.6	141.9	140.9
2115.8	65°	1493.0	604.5	161.2	162.8	159.0	143.4	136.9	136.8	134.5	134.2
<b>2185.1</b>	<b>67.5°</b>	<b>1468.9</b>	<b>533.6</b>	<b>146.0</b>	<b>158.0</b>	<b>153.2</b>	<b>136.6</b>	<b>129.4</b>	<b>128.7</b>	<b>125.8</b>	<b>126.0</b>
2112.8	70°	1348.2	432.4	125.0	146.2	146.0	130.4	121.6	119.3	115.4	116.1
1837.0	72.5°	1121.9	320.4	96.8	126.5	134.5	124.8	112.5	108.9	103.9	104.6
1356.1	75°	810.2	217.8	70.4	96.3	117.1	118.1	103.6	97.4	91.5	92.5
754.8	77.5°	414.6	123.4	51.8	66.3	92.0	107.4	95.6	87.4	86.0	95.6
217.6	80°	135.2	61.9	35.9	46.5	60.4	87.9	83.8	74.4	74.0	76.2
45.6	82.5°	40.3	26.2	23.1	30.6	33.3	67.4	72.3	56.2	48.4	50.9
15.2	85°	13.8	12.7	13.2	15.2	15.9	39.5	50.6	37.3	35.2	38.8
3.4	87.5°	3.2	4.4	3.8	3.4	3.4	9.6	19.7	15.6	21.5	14.4
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>
388.6
307.2
279.2
282.9
292.5
300.7
305.3
304.7
297.1
284.5
270.8
258.3
247.9
243.3
236.8
225.2
203.8
192.0
189.3
181.6
172.7
162.6
155.4
146.5
145.3
140.9
134.0
126.0
116.8
104.5
92.8
94.2
65.5
52.7
38.3
13.8
0.0

F REPORT)