

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: P945003

Luminaire Tested: **GALN-SB1A-830-U-SL2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P945003  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB1A-830-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 80 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

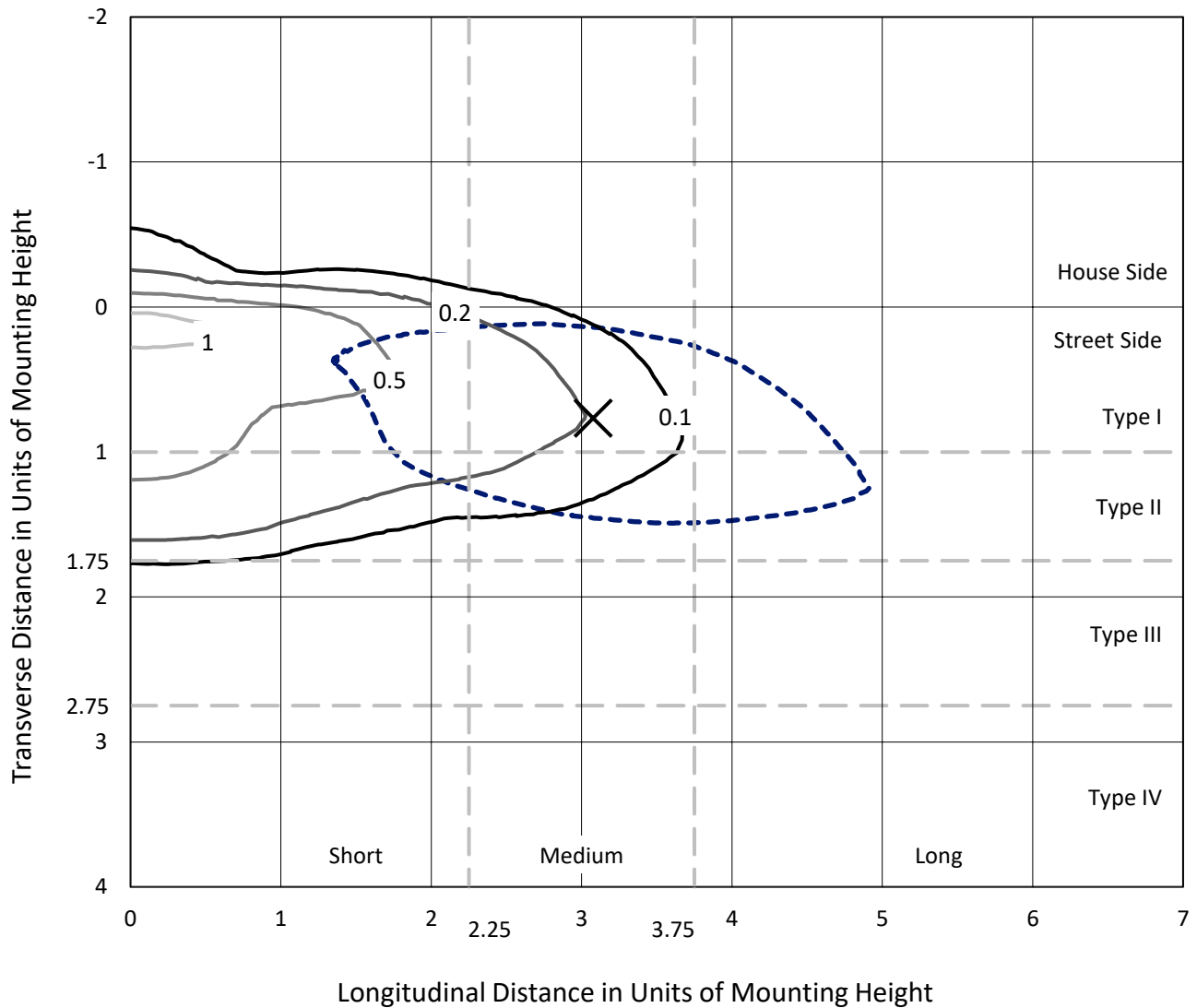
Lumens per Lamp: N/A  
Luminaire Lumens: 3268 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P945003  
 CATALOG NUMBER: GALN-SB1A-830-U-SL2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

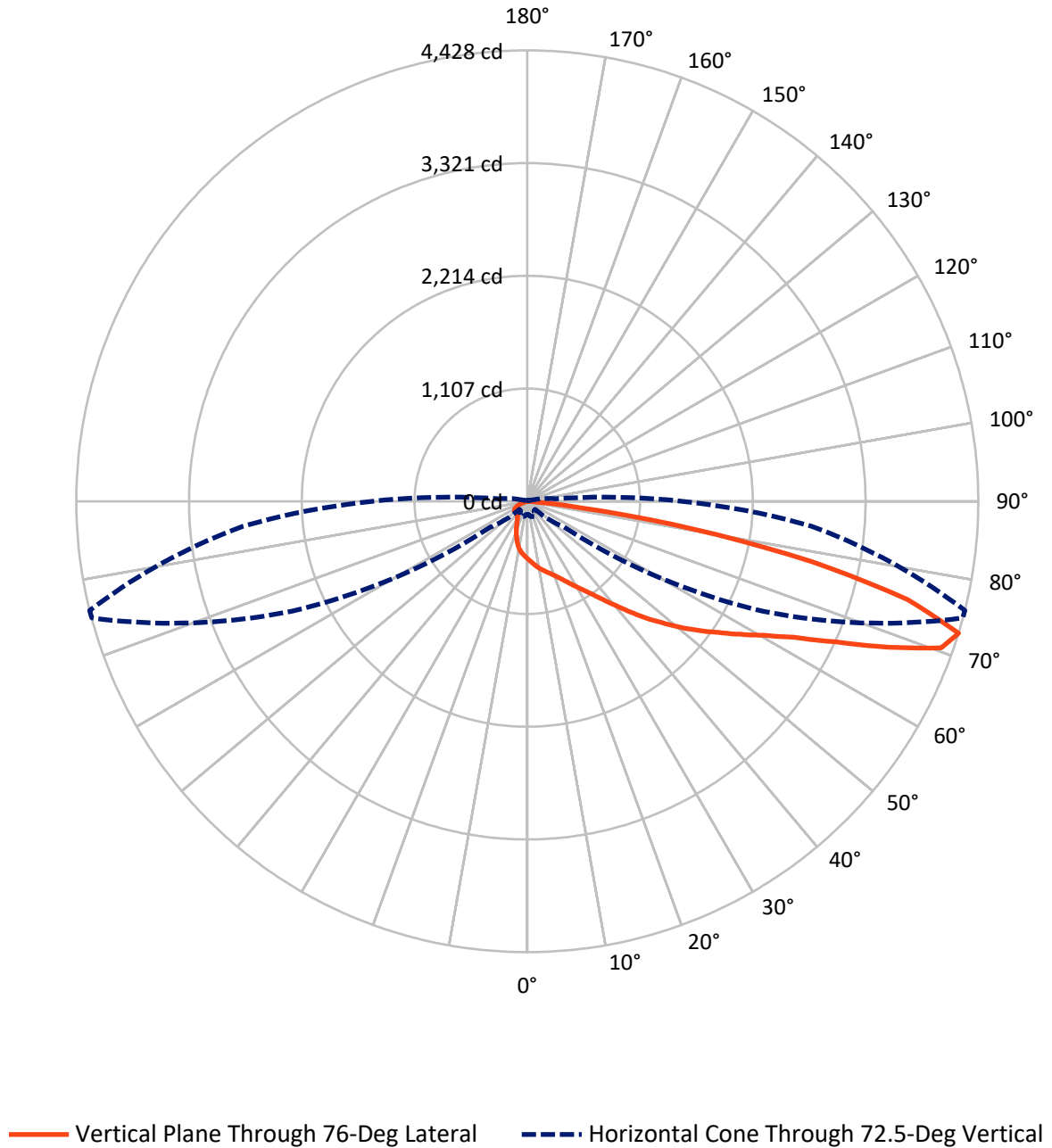
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P945003  
CATALOG NUMBER: GALN-SB1A-830-U-SL2-HSS

### Luminous Intensity Polar Plot



REPORT NUMBER: P945003  
 CATALOG NUMBER: GALN-SB1A-830-U-SL2-HSS

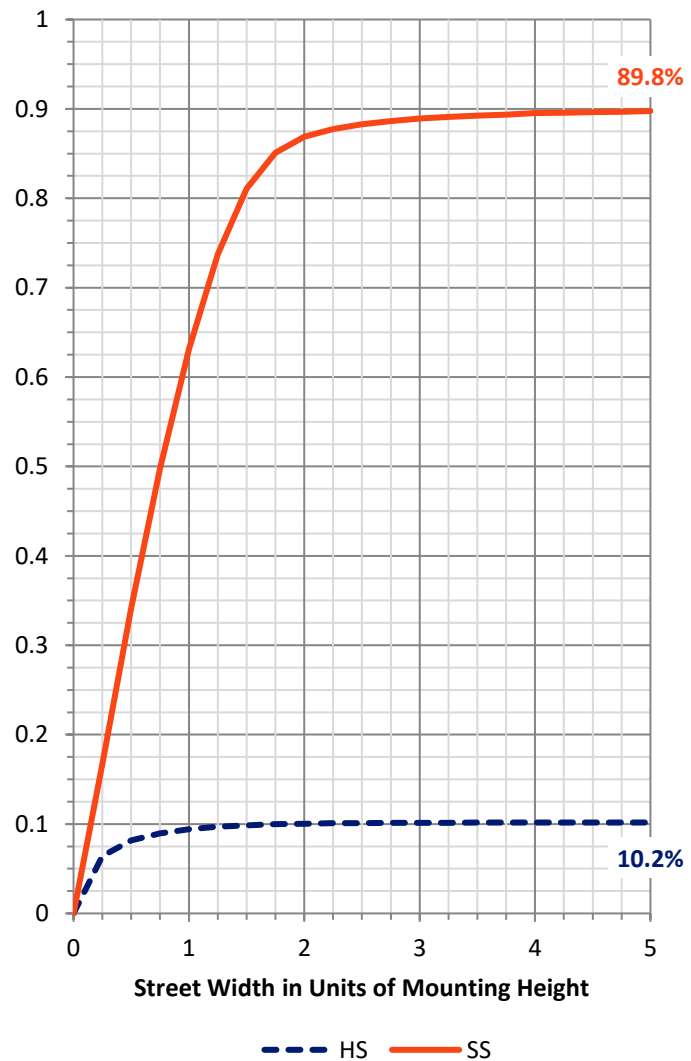
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	334.5	0.0	334.5
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	2933.5	0.0	2933.5
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	3268.0	0.0	3268.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.4	1.6
10°-20°	137.7	4.2
20°-30°	218.0	6.7
30°-40°	337.2	10.3
40°-50°	512.2	15.7
50°-60°	706.1	21.6
60°-70°	746.0	22.8
70°-80°	511.8	15.7
80°-90°	47.6	1.5
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°	3268.0	100.0
0°-180°	3268.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P945003

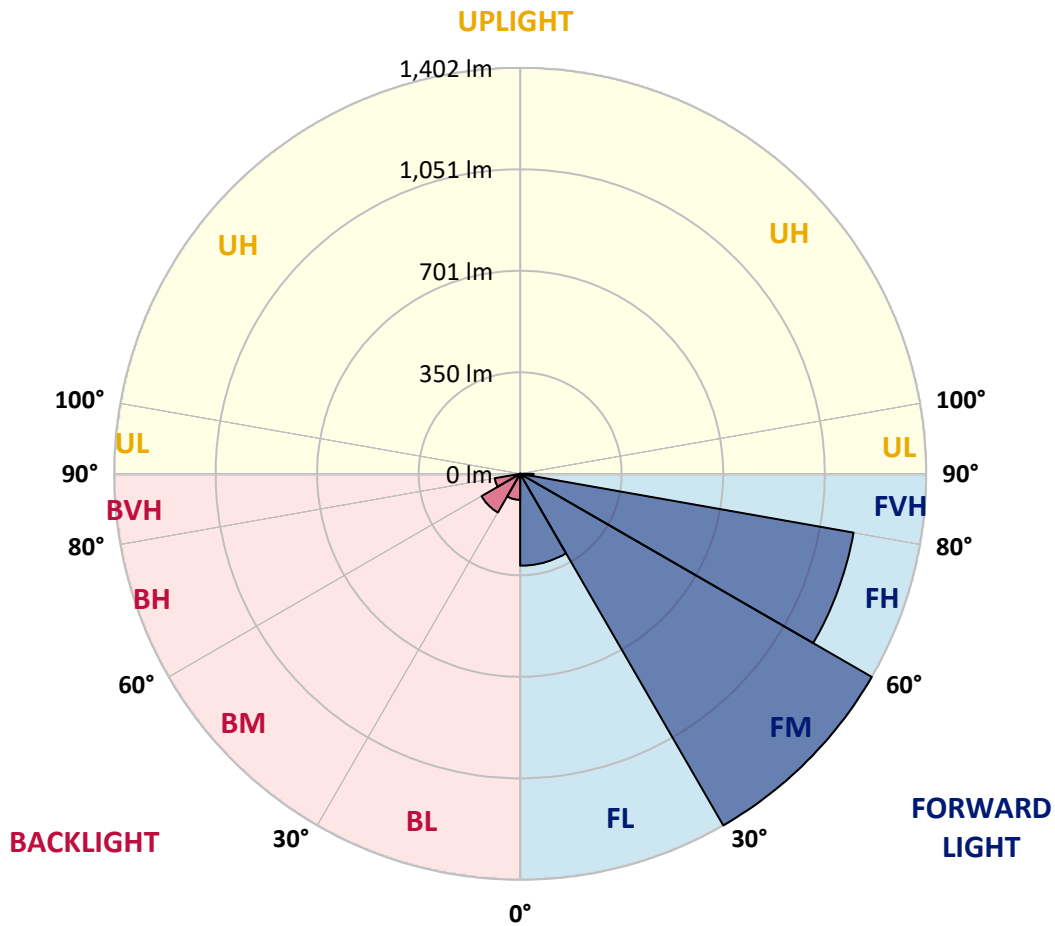
CATALOG NUMBER: GALN-SB1A-830-U-SL2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	317.2	9.7			
FM (30°-60°)	1401.6	42.9			
FH (60°-80°)	1168.4	35.8			G1/1800
FVH (80°-90°)	46.3	1.4			G1/100
BL (0°-30°)	89.9	2.8	B0/110		
BM (30°-60°)	154.0	4.7	B0/220		
BH (60°-80°)	89.3	2.7	B0/110		G0/110
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type II Medium



REPORT NUMBER: P945003  
 CATALOG NUMBER: GALN-SB1A-830-U-SL2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7
2.5°	656.5	647.8	649.5	640.8	636.8	627.1	616.9	603.5	588.7	588.7
5°	725.6	720.1	720.1	710.0	702.1	686.8	668.6	645.1	617.1	614.3
7.5°	768.0	764.6	766.8	760.8	754.5	738.6	716.9	686.2	646.6	643.2
10°	776.3	776.1	782.0	783.7	788.0	779.9	760.6	725.2	675.6	670.7
12.5°	744.3	740.3	754.9	772.1	796.2	807.0	797.1	760.8	702.1	695.3
15°	691.7	692.6	706.6	733.1	773.3	811.9	824.8	795.6	729.0	721.0
17.5°	661.6	658.4	670.5	694.3	738.8	793.3	837.8	828.0	757.6	748.5
20°	658.0	657.8	660.6	671.4	705.3	766.6	836.3	859.6	791.4	780.8
22.5°	683.0	682.6	680.3	678.2	687.5	740.5	829.9	889.7	831.6	820.2
25°	721.4	720.8	717.2	704.2	695.1	726.5	824.0	917.7	879.3	866.6
27.5°	768.2	767.8	761.3	741.7	718.2	727.8	821.0	946.5	934.4	921.9
30°	825.7	824.8	811.3	783.7	753.0	747.9	825.1	979.0	991.9	982.4
32.5°	897.8	895.4	877.6	836.1	793.1	774.8	832.7	1012.2	1059.9	1051.0
35°	953.5	949.9	939.5	902.9	839.5	807.9	850.5	1051.7	1141.8	1133.9
37.5°	1001.4	997.8	989.4	959.3	906.0	850.1	879.1	1104.3	1238.4	1234.6
40°	1053.2	1047.2	1043.2	1011.0	962.9	910.9	920.0	1165.7	1349.7	1350.2
42.5°	1093.0	1090.7	1091.1	1066.3	1017.8	983.0	974.3	1235.0	1483.1	1487.1
45°	1127.1	1125.2	1133.1	1115.7	1073.1	1030.3	1037.9	1313.5	1628.9	1637.2
47.5°	1153.4	1155.6	1166.8	1155.6	1130.5	1063.5	1094.3	1398.1	1782.2	1783.3
50°	1179.7	1180.6	1199.2	1193.7	1183.5	1105.7	1146.2	1492.6	1943.7	1945.6
52.5°	1188.0	1186.7	1216.4	1230.0	1230.4	1157.9	1213.4	1595.6	2102.1	2108.2
55°	1145.6	1149.2	1197.1	1252.2	1274.1	1230.0	1304.2	1726.0	2270.8	2273.4
57.5°	938.3	958.2	1064.2	1192.0	1302.2	1333.2	1434.5	1878.4	2465.6	2463.3
60°	569.4	593.1	719.9	999.7	1210.2	1436.9	1626.6	2114.6	2678.5	2671.9
62.5°	318.4	325.6	366.1	598.4	920.5	1370.9	1814.2	2417.9	2964.2	2942.0
65°	234.7	237.0	246.5	293.2	452.4	1054.4	1773.1	2780.7	3365.8	3326.1
67.5°	203.9	206.3	215.6	222.0	202.0	553.9	1460.8	2981.8	3875.6	3823.6
70°	171.7	173.0	188.0	192.3	144.6	210.7	938.5	2919.7	4347.5	4310.4
72.5°	128.0	133.1	155.0	165.1	116.0	111.9	441.8	2552.8	4427.4	4427.8
75°	86.9	91.6	116.6	135.9	89.5	78.4	178.3	1906.2	3855.2	3855.2
77.5°	59.4	63.2	81.2	106.6	67.8	53.8	92.4	1209.8	2765.8	2863.1
80°	26.3	28.6	52.4	77.4	51.5	34.8	52.4	662.5	1672.6	1652.0
82.5°	12.9	14.8	33.5	48.3	33.3	21.4	27.6	315.0	542.1	515.1
85°	2.5	3.4	18.0	20.6	15.5	9.5	10.4	96.9	65.3	74.6
87.5°	0.0	0.0	5.5	3.8	1.7	2.1	2.1	8.7	5.1	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945003  
 CATALOG NUMBER: GALN-SB1A-830-U-SL2-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
564.7	0°	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7	564.7
574.3	2.5°	566.6	558.8	541.6	524.7	507.3	491.4	480.4	469.3	462.6	459.6
587.0	5°	571.1	555.2	519.2	481.4	444.1	407.7	380.3	354.7	346.6	333.2
602.0	7.5°	578.1	552.2	495.4	431.8	371.2	317.8	279.2	248.5	236.2	224.3
615.0	10°	582.8	546.7	464.0	379.0	297.0	237.0	200.1	177.9	169.8	162.6
627.1	12.5°	584.7	536.5	428.0	319.9	231.1	180.6	158.6	148.2	145.4	142.9
638.5	15°	586.4	526.6	387.7	262.9	182.5	151.1	142.5	139.1	137.2	135.5
650.2	17.5°	587.8	513.9	341.7	213.7	154.1	139.3	135.0	131.4	129.9	128.0
666.9	20°	592.9	501.6	300.6	176.4	138.6	130.8	126.1	122.3	121.0	119.8
690.7	22.5°	602.5	491.6	260.7	151.1	129.3	122.1	116.2	111.9	111.1	110.2
719.5	25°	613.9	479.3	223.2	134.8	120.2	112.1	105.6	102.0	101.1	101.3
752.8	27.5°	628.5	465.7	191.0	124.4	112.1	102.8	95.4	92.6	93.1	93.9
791.1	30°	644.7	453.2	165.8	117.2	104.9	94.5	87.1	85.2	86.7	88.0
842.4	32.5°	668.6	442.2	148.2	111.5	98.6	87.8	81.8	79.5	81.2	82.9
907.9	35°	701.3	436.7	138.2	106.6	93.1	82.5	76.5	74.8	76.5	77.0
987.9	37.5°	741.3	436.3	134.0	102.6	88.0	78.0	71.4	70.8	72.1	72.3
1083.9	40°	793.1	439.0	130.8	99.6	82.7	72.9	66.8	66.1	66.6	68.0
1199.4	42.5°	858.6	450.5	126.3	95.8	77.0	67.8	63.0	61.5	61.3	63.0
1328.7	45°	940.8	475.7	120.4	89.7	71.9	63.6	58.7	57.0	56.4	56.8
1462.3	47.5°	1030.5	506.7	114.5	83.9	68.3	60.2	55.3	53.2	52.1	52.1
1587.2	50°	1117.4	541.6	110.4	78.0	65.7	57.0	51.7	49.6	47.9	47.5
1715.6	52.5°	1203.5	576.0	107.3	72.1	62.7	53.0	48.3	46.0	44.1	43.2
1842.8	55°	1281.9	608.6	101.8	66.4	58.9	48.8	44.9	42.6	40.3	38.8
1971.7	57.5°	1357.2	635.8	91.6	60.4	53.0	44.7	41.3	38.8	36.0	34.1
2102.1	60°	1425.6	649.7	78.9	54.1	47.1	40.5	37.3	35.0	31.4	28.2
2230.3	62.5°	1477.8	644.2	65.1	46.8	40.9	36.7	32.6	30.3	26.1	22.3
2384.0	65°	1531.2	614.1	51.9	39.2	35.8	31.6	27.3	25.0	20.1	16.1
2592.0	67.5°	1600.5	549.9	40.9	32.6	31.0	25.0	21.4	19.9	16.5	12.7
2815.2	70°	1645.0	427.2	31.8	26.5	25.4	18.2	16.5	16.3	13.1	9.8
2800.2	72.5°	1522.9	280.0	24.4	20.1	18.2	11.9	12.7	12.7	9.5	6.6
2454.6	75°	1271.3	163.9	17.6	14.4	10.4	7.6	8.7	8.7	5.9	3.2
1749.5	77.5°	907.9	87.3	11.7	8.9	5.3	3.4	4.7	4.5	1.9	0.2
685.8	80°	347.2	30.1	5.5	3.6	1.5	0.6	0.4	0.2	0.2	0.0
107.1	82.5°	53.0	7.8	1.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0
22.7	85°	9.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5.9	87.5°	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
564.7
460.0
334.1
224.1
162.4
142.9
135.5
128.0
120.0
109.6
100.9
93.5
87.6
82.5
76.7
71.9
67.8
62.7
57.4
52.1
47.3
42.8
38.2
33.3
27.3
20.8
15.1
11.9
8.7
5.7
2.5
0.0
0.0
0.0
0.0
0.0
0.0

F REPORT)