

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: P945717

Luminaire Tested: **GALN-SB1C-830-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945717
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-SB1C-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA 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: 5456 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

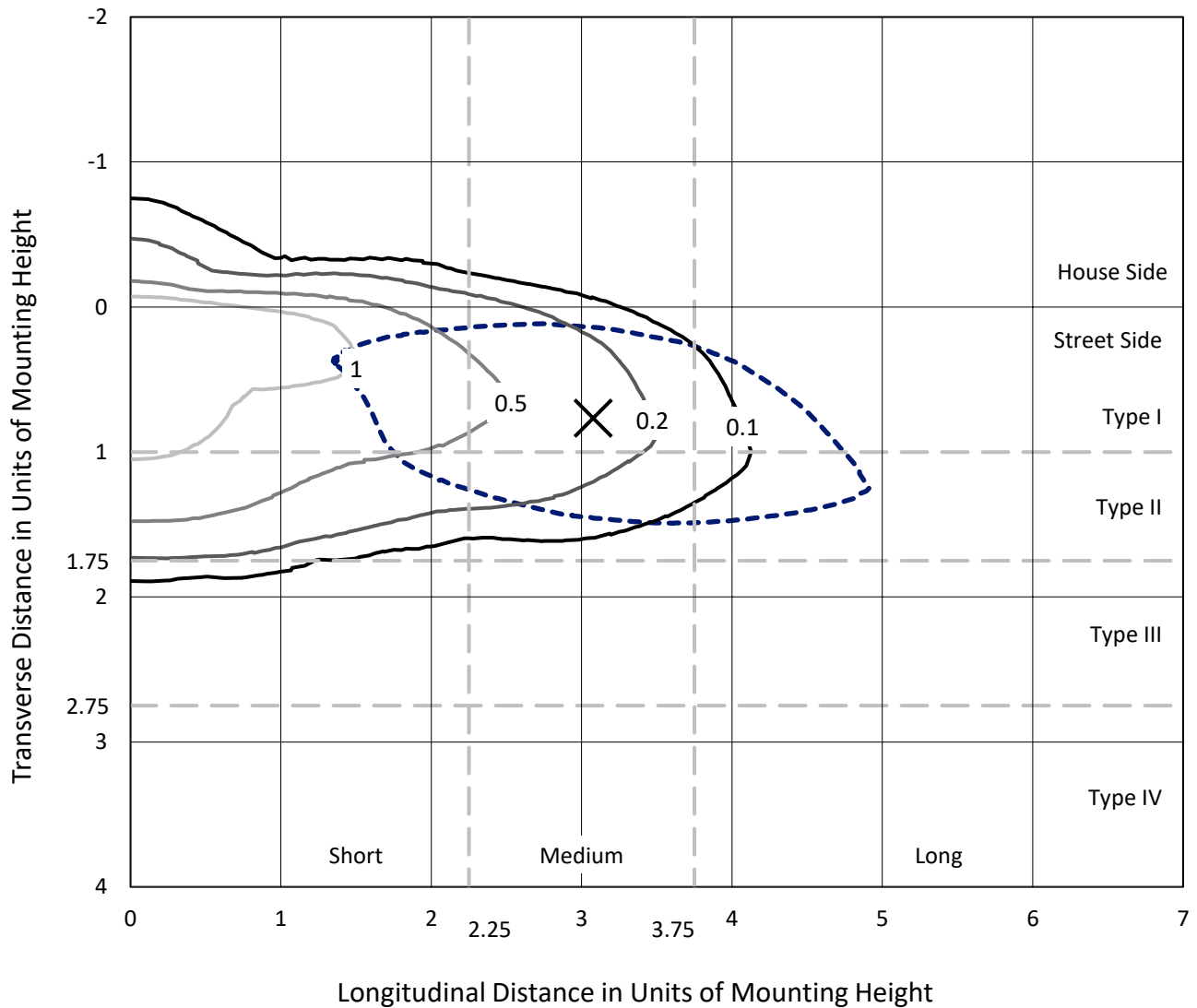
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P945717
 CATALOG NUMBER: GALN-SB1C-830-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

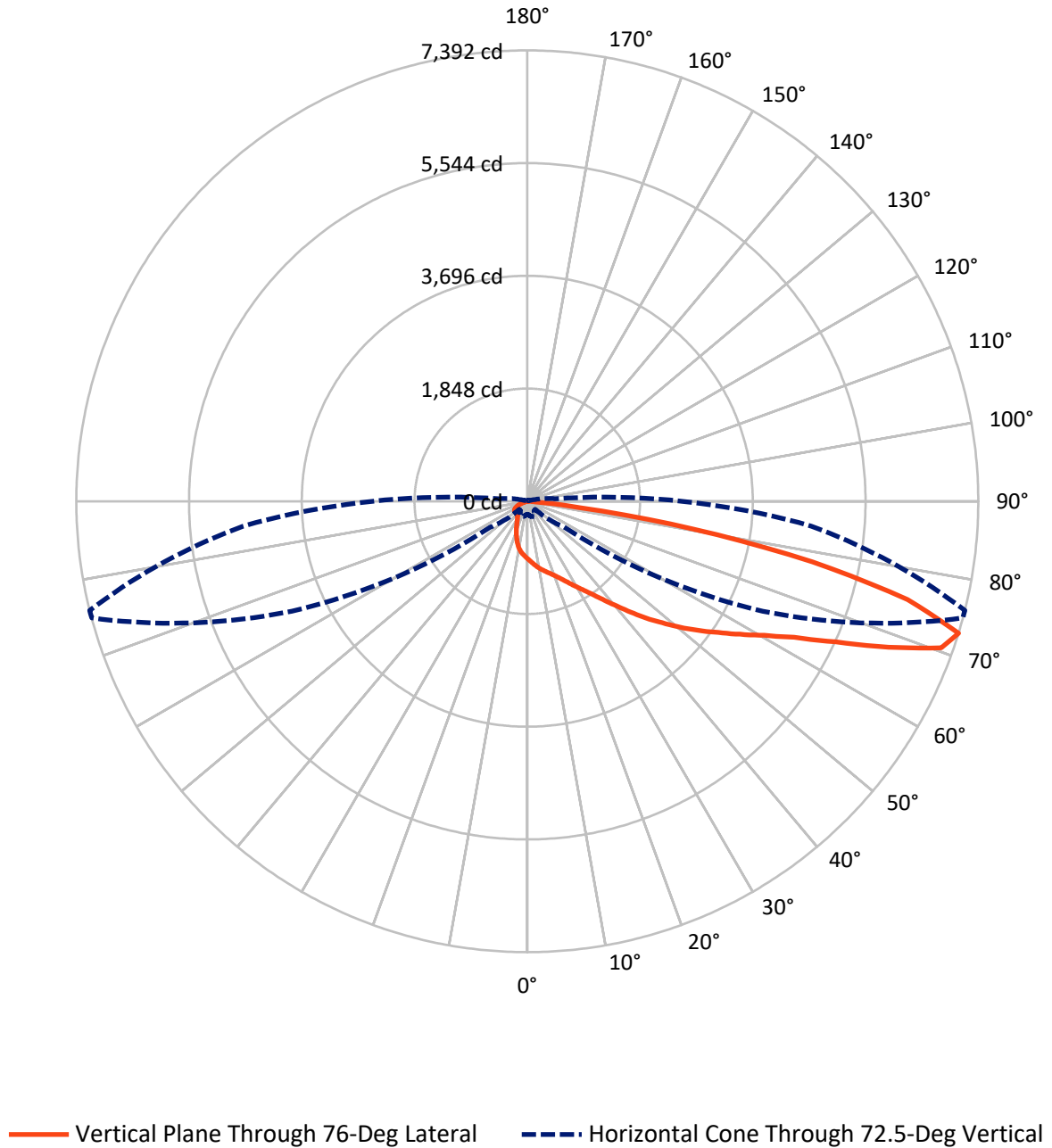
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Medium - N/A

REPORT NUMBER: P945717
CATALOG NUMBER: GALN-SB1C-830-U-SL2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P945717
 CATALOG NUMBER: GALN-SB1C-830-U-SL2-HSS

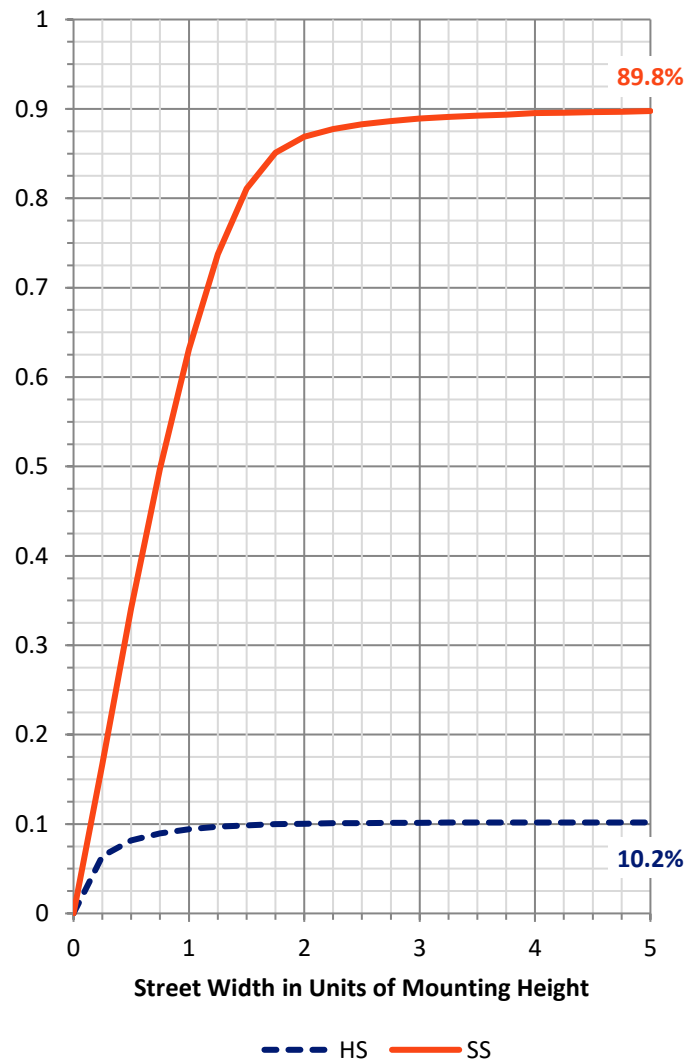
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	558.4	0.0	558.4
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	4897.6	0.0	4897.6
	% Fixture	89.8	0.0	89.8
Total	Lumens	5456.0	0.0	5456.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	1.6
10°-20°	229.9	4.2
20°-30°	363.9	6.7
30°-40°	563.0	10.3
40°-50°	855.1	15.7
50°-60°	1178.9	21.6
60°-70°	1245.4	22.8
70°-80°	854.4	15.7
80°-90°	79.5	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°	5456.0	100.0
0°-180°	5456.0	100.0

Coefficient of Utilization



REPORT NUMBER: P945717

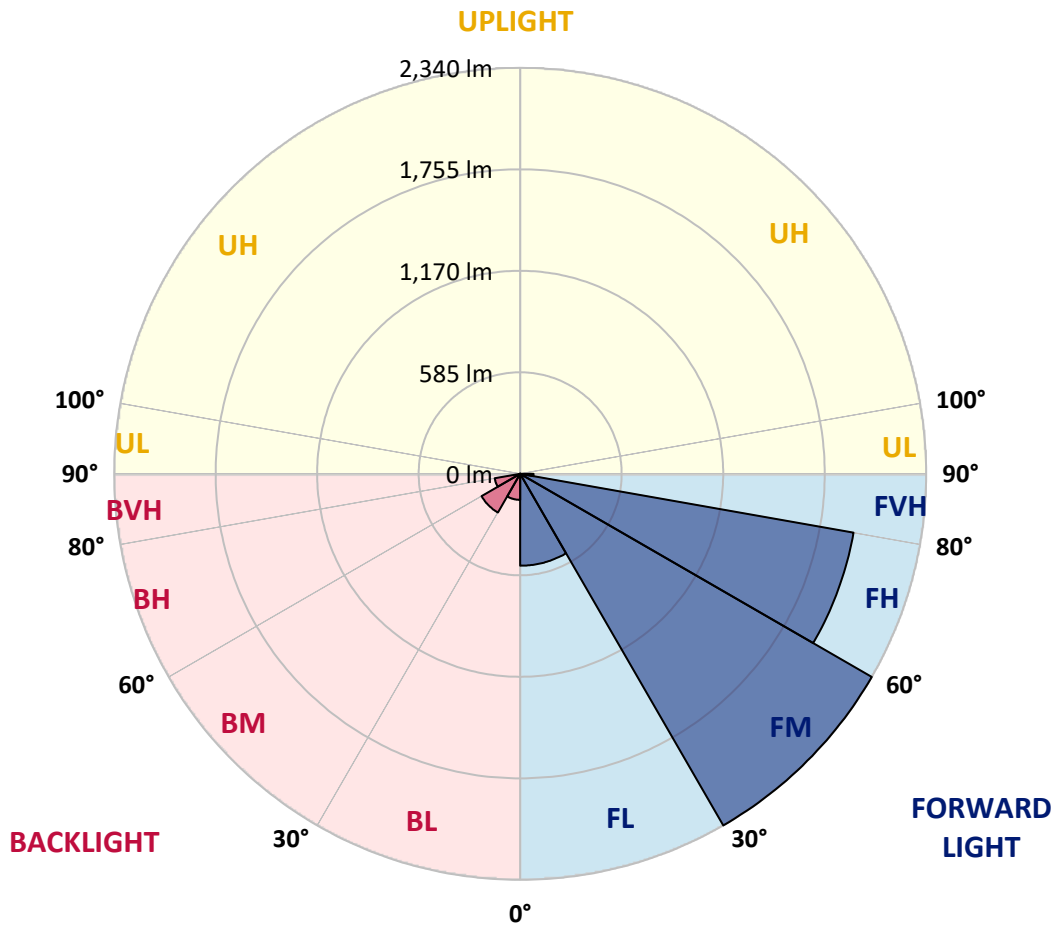
CATALOG NUMBER: GALN-SB1C-830-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	529.5	9.7			
FM (30°-60°)	2340.0	42.9			
FH (60°-80°)	1950.8	35.8			G2/5000
FVH (80°-90°)	77.4	1.4			G1/100
BL (0°-30°)	150.1	2.8	B1/500		
BM (30°-60°)	257.1	4.7	B1/1000		
BH (60°-80°)	149.1	2.7	B1/500		G1/500
BVH (80°-90°)	2.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



REPORT NUMBER: P945717
 CATALOG NUMBER: GALN-SB1C-830-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°
0°	942.8	942.8	942.8	942.8	942.8	942.8	942.8	942.8	942.8	942.8
2.5°	1096.1	1081.6	1084.4	1069.9	1063.2	1046.9	1029.9	1007.6	982.8	982.8
5°	1211.5	1202.3	1202.3	1185.3	1172.2	1146.7	1116.3	1077.0	1030.3	1025.7
7.5°	1282.3	1276.6	1280.1	1270.2	1259.6	1233.1	1197.0	1145.6	1079.5	1073.8
10°	1296.1	1295.7	1305.6	1308.4	1315.5	1302.1	1269.9	1210.8	1127.9	1119.8
12.5°	1242.6	1235.9	1260.3	1289.0	1329.3	1347.4	1330.7	1270.2	1172.2	1160.9
15°	1154.8	1156.3	1179.6	1223.9	1291.1	1355.5	1377.1	1328.3	1217.1	1203.7
17.5°	1104.6	1099.3	1119.5	1159.1	1233.4	1324.4	1398.7	1382.4	1264.9	1249.7
20°	1098.6	1098.2	1102.8	1120.9	1177.5	1279.8	1396.2	1435.1	1321.2	1303.5
22.5°	1140.3	1139.6	1135.7	1132.2	1147.8	1236.2	1385.6	1485.4	1388.4	1369.3
25°	1204.4	1203.3	1197.3	1175.7	1160.5	1212.9	1375.7	1532.1	1468.1	1446.8
27.5°	1282.6	1281.9	1270.9	1238.4	1199.1	1215.0	1370.7	1580.3	1560.1	1539.2
30°	1378.5	1377.1	1354.5	1308.4	1257.1	1248.6	1377.5	1634.4	1656.0	1640.1
32.5°	1498.9	1495.0	1465.2	1395.9	1324.0	1293.6	1390.2	1690.0	1769.6	1754.7
35°	1591.9	1585.9	1568.6	1507.3	1401.5	1348.8	1419.9	1755.8	1906.2	1893.1
37.5°	1671.9	1665.9	1651.7	1601.5	1512.7	1419.2	1467.7	1843.6	2067.6	2061.2
40°	1758.3	1748.4	1741.6	1687.8	1607.5	1520.8	1536.0	1946.2	2253.4	2254.1
42.5°	1824.8	1820.9	1821.6	1780.2	1699.2	1641.1	1626.6	2061.9	2476.0	2482.8
45°	1881.8	1878.6	1891.7	1862.7	1791.5	1720.1	1732.8	2192.9	2719.5	2733.3
47.5°	1925.7	1929.2	1948.0	1929.2	1887.5	1775.6	1826.9	2334.1	2975.4	2977.2
50°	1969.6	1971.0	2002.1	1992.9	1975.9	1846.0	1913.6	2492.0	3245.1	3248.3
52.5°	1983.4	1981.2	2030.8	2053.4	2054.2	1933.1	2025.8	2664.0	3509.5	3519.7
55°	1912.6	1918.6	1998.6	2090.6	2127.1	2053.4	2177.3	2881.6	3791.2	3795.4
57.5°	1566.5	1599.7	1776.7	1990.1	2174.1	2225.8	2395.0	3136.1	4116.4	4112.6
60°	950.6	990.3	1201.9	1669.1	2020.5	2398.9	2715.6	3530.4	4471.8	4460.8
62.5°	531.6	543.6	611.2	999.1	1536.7	2288.8	3028.9	4036.8	4948.9	4911.7
65°	391.8	395.7	411.6	489.5	755.3	1760.4	2960.2	4642.4	5619.2	5553.0
67.5°	340.5	344.4	359.9	370.6	337.3	924.8	2438.9	4978.2	6470.4	6383.7
70°	286.7	288.8	313.9	321.0	241.4	351.8	1566.8	4874.5	7258.2	7196.3
72.5°	213.8	222.3	258.7	275.7	193.6	186.9	737.6	4261.9	7391.6	7392.3
75°	145.1	152.9	194.7	226.9	149.4	131.0	297.6	3182.5	6436.4	6436.4
77.5°	99.1	105.5	135.6	178.0	113.3	89.9	154.3	2019.8	4617.6	4780.1
80°	43.9	47.8	87.4	129.2	86.0	58.0	87.4	1106.0	2792.4	2758.1
82.5°	21.6	24.8	55.9	80.7	55.6	35.7	46.0	525.9	905.0	860.0
85°	4.2	5.7	30.1	34.3	25.8	15.9	17.3	161.7	109.0	124.6
87.5°	0.0	0.0	9.2	6.4	2.8	3.5	3.5	14.5	8.5	9.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P945717
 CATALOG NUMBER: GALN-SB1C-830-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
942.8	0°	942.8	942.8	942.8	942.8	942.8	942.8	942.8	942.8	942.8	942.8
958.8	2.5°	946.0	932.9	904.3	876.0	846.9	820.4	802.0	783.6	772.3	767.3
980.0	5°	953.5	926.9	866.8	803.8	741.5	680.6	634.9	592.1	578.7	556.4
1005.1	7.5°	965.1	922.0	827.1	720.9	619.7	530.5	466.1	414.8	394.3	374.4
1026.7	10°	972.9	912.8	774.7	632.8	495.8	395.7	334.1	296.9	283.5	271.5
1046.9	12.5°	976.1	895.8	714.6	534.1	385.8	301.5	264.7	247.4	242.8	238.5
1066.0	15°	978.9	879.1	647.3	438.9	304.7	252.3	237.8	232.2	229.0	226.2
1085.5	17.5°	981.4	857.9	570.5	356.8	257.3	232.5	225.4	219.4	217.0	213.8
1113.4	20°	989.9	837.4	501.9	294.5	231.5	218.4	210.6	204.2	202.1	200.0
1153.1	22.5°	1005.8	820.7	435.3	252.3	215.9	203.9	193.9	186.9	185.5	184.0
1201.2	25°	1025.0	800.2	372.7	225.1	200.7	187.2	176.3	170.2	168.8	169.2
1256.8	27.5°	1049.4	777.6	318.9	207.8	187.2	171.7	159.3	154.7	155.4	156.8
1320.8	30°	1076.3	756.7	276.8	195.7	175.2	157.8	145.5	142.3	144.8	146.9
1406.5	32.5°	1116.3	738.3	247.4	186.2	164.6	146.5	136.6	132.7	135.6	138.4
1515.8	35°	1170.8	729.1	230.8	178.0	155.4	137.7	127.8	124.9	127.8	128.5
1649.3	37.5°	1237.7	728.4	223.7	171.3	146.9	130.2	119.3	118.2	120.3	120.7
1809.6	40°	1324.0	733.0	218.4	166.3	138.0	121.7	111.5	110.4	111.1	113.6
2002.5	42.5°	1433.4	752.1	210.9	160.0	128.5	113.3	105.1	102.6	102.3	105.1
2218.4	45°	1570.7	794.2	201.0	149.7	120.0	106.2	98.0	95.2	94.1	94.9
2441.3	47.5°	1720.4	845.9	191.1	140.2	114.0	100.5	92.4	88.8	87.1	87.1
2649.8	50°	1865.5	904.3	184.4	130.2	109.7	95.2	86.4	82.8	80.0	79.3
2864.3	52.5°	2009.2	961.6	179.1	120.3	104.8	88.5	80.7	76.8	73.6	72.2
3076.6	55°	2140.2	1016.1	169.9	110.8	98.4	81.4	75.0	71.1	67.2	64.8
3291.8	57.5°	2265.8	1061.4	152.9	100.9	88.5	74.7	69.0	64.8	60.2	57.0
3509.5	60°	2380.1	1084.8	131.7	90.2	78.6	67.6	62.3	58.4	52.4	47.1
3723.6	62.5°	2467.2	1075.6	108.7	78.2	68.3	61.2	54.5	50.6	43.5	37.2
3980.2	65°	2556.4	1025.3	86.7	65.5	59.8	52.7	45.7	41.8	33.6	26.9
4327.4	67.5°	2672.1	918.1	68.3	54.5	51.7	41.8	35.7	33.3	27.6	21.2
4700.1	70°	2746.4	713.1	53.1	44.2	42.5	30.4	27.6	27.3	21.9	16.3
4674.9	72.5°	2542.6	467.5	40.7	33.6	30.4	19.8	21.2	21.2	15.9	11.0
4098.0	75°	2122.5	273.6	29.4	24.1	17.3	12.7	14.5	14.5	9.9	5.3
2920.9	77.5°	1515.8	145.8	19.5	14.9	8.8	5.7	7.8	7.4	3.2	0.4
1144.9	80°	579.7	50.3	9.2	6.0	2.5	1.1	0.7	0.4	0.4	0.0
178.7	82.5°	88.5	13.1	1.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
37.9	85°	15.9	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9.9	87.5°	3.5	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>
942.8
768.0
557.8
374.1
271.1
238.5
226.2
213.8
200.3
183.0
168.5
156.1
146.2
137.7
128.1
120.0
113.3
104.8
95.9
87.1
78.9
71.5
63.7
55.6
45.7
34.7
25.1
19.8
14.5
9.6
4.2
0.0
0.0
0.0
0.0
0.0
0.0

F REPORT)