

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: P939309

Luminaire Tested: **GALN-SB1D-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-830-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9040 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

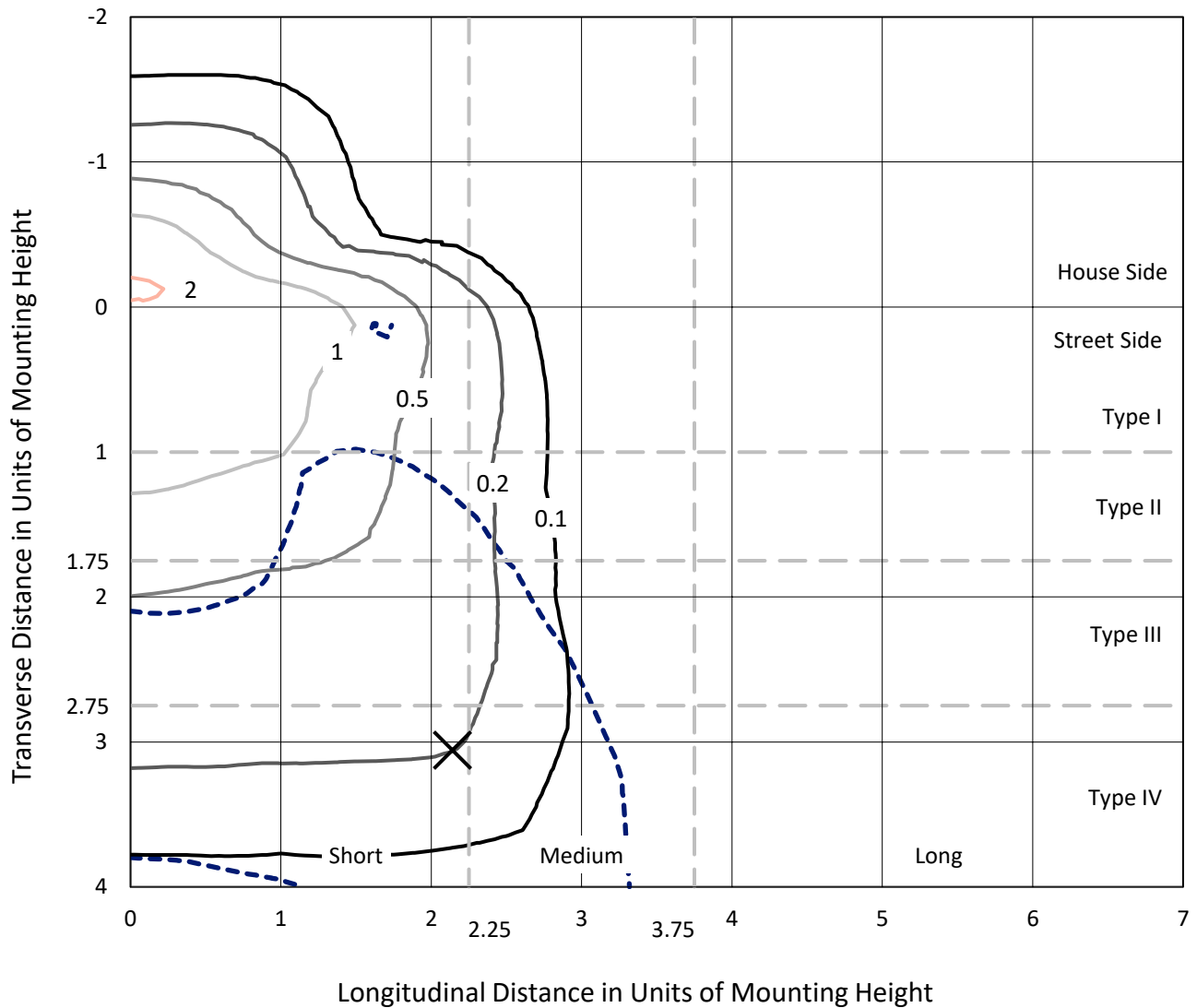
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939309
 CATALOG NUMBER: GALN-SB1D-830-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

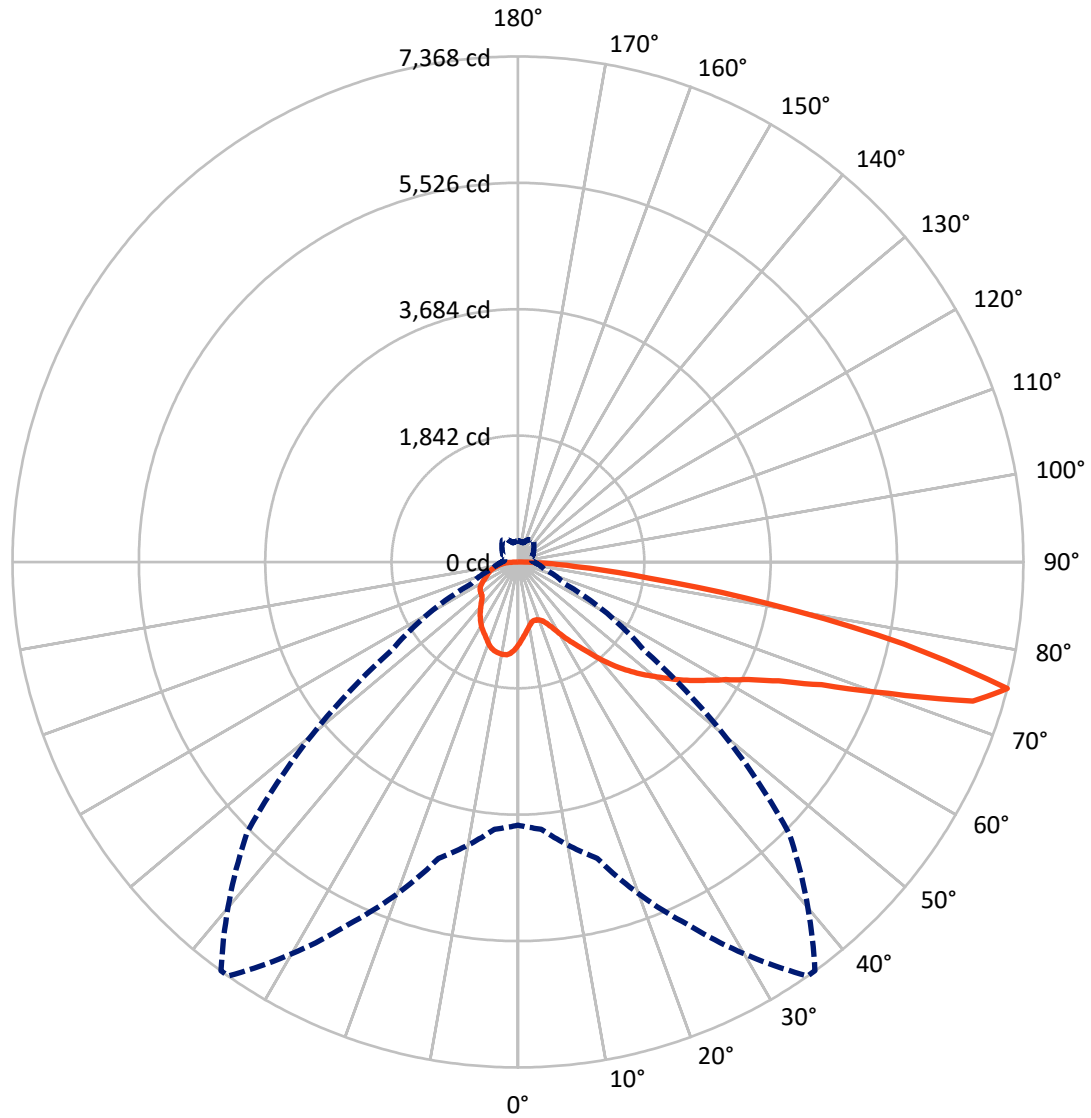
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P939309
CATALOG NUMBER: GALN-SB1D-830-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P939309
 CATALOG NUMBER: GALN-SB1D-830-U-T4FT

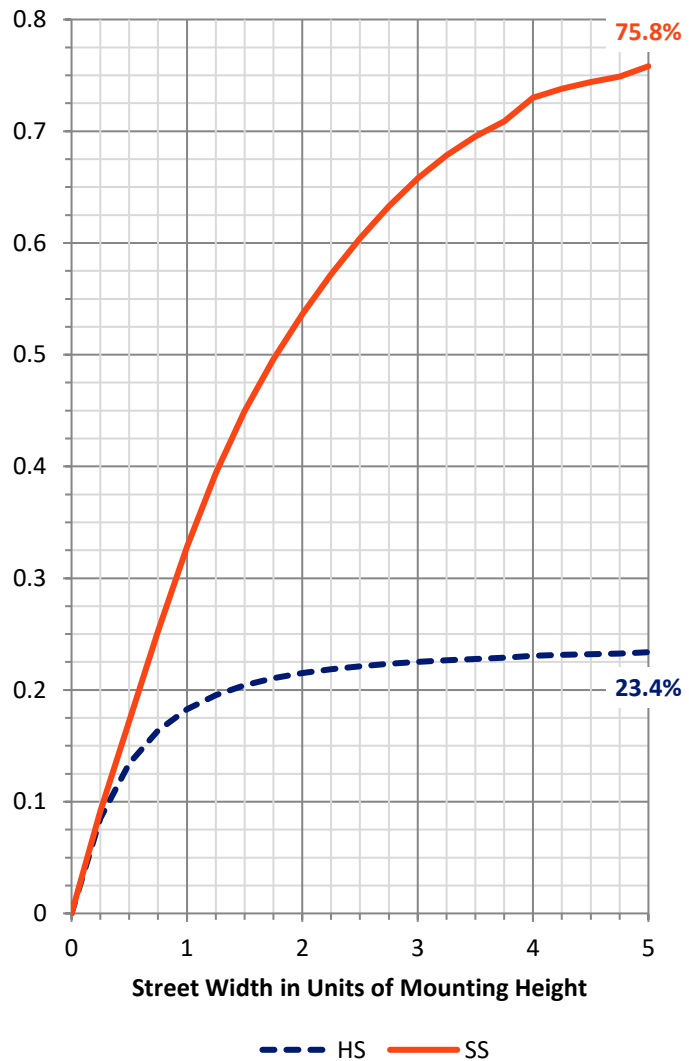
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2151.3	0.0	2151.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	6888.7	0.0	6888.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	9040.0	0.0	9040.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.1	1.3
10°-20°	329.0	3.6
20°-30°	552.5	6.1
30°-40°	858.6	9.5
40°-50°	1274.4	14.1
50°-60°	1759.3	19.5
60°-70°	2134.5	23.6
70°-80°	1764.0	19.5
80°-90°	253.7	2.8
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°	9040.0	100.0
0°-180°	9040.0	100.0

Coefficient of Utilization



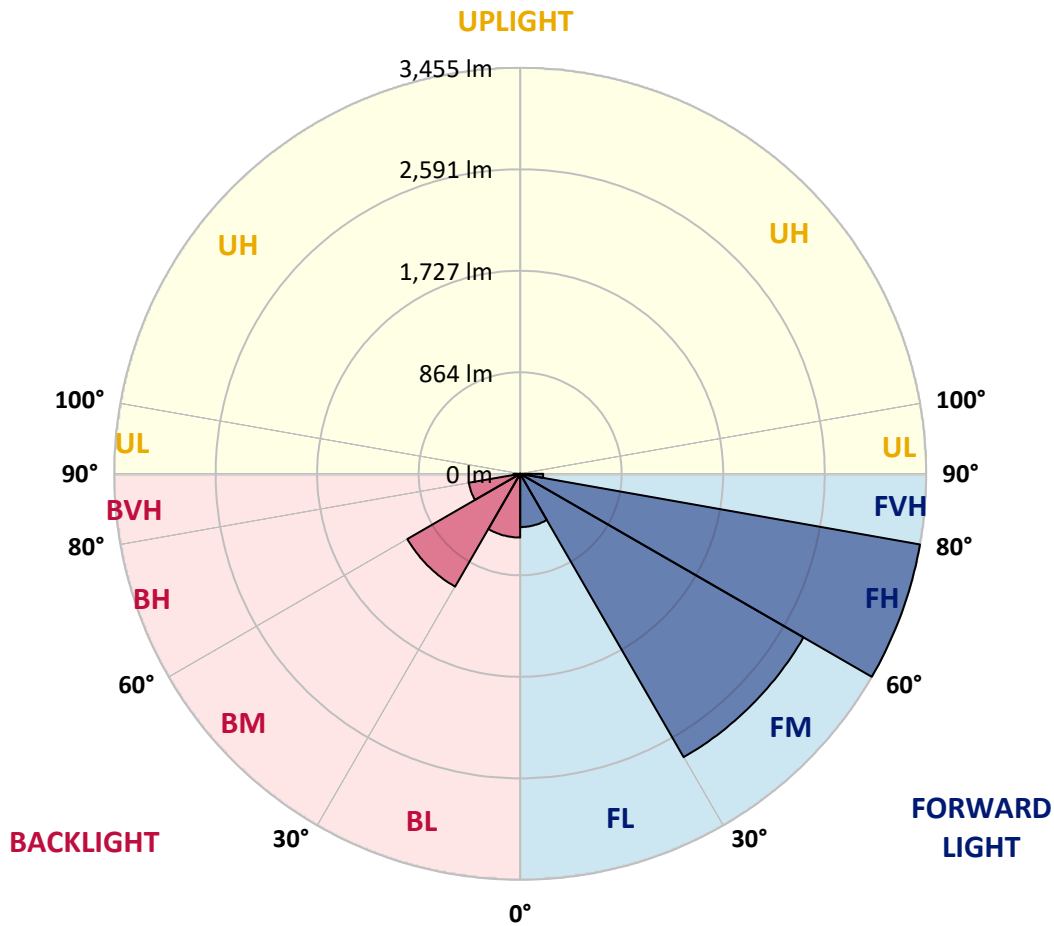
REPORT NUMBER: P939309
 CATALOG NUMBER: GALN-SB1D-830-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	453.3	5.0			
FM (30°-60°)	2783.8	30.8			
FH (60°-80°)	3455.0	38.2			G2/5000
FVH (80°-90°)	196.6	2.2			G2/225
BL (0°-30°)	542.2	6.0	B2/1000		
BM (30°-60°)	1108.5	12.3	B2/2500		
BH (60°-80°)	443.5	4.9	B1/500		G1/500
BVH (80°-90°)	57.1	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



REPORT NUMBER: P939309

CATALOG NUMBER: GALN-SB1D-830-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°
0°	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6
2.5°	1110.8	1117.7	1120.6	1119.1	1126.4	1125.5	1135.7	1148.4	1166.0	1183.1
5°	1025.3	1032.6	1039.0	1044.8	1059.0	1063.4	1079.5	1104.0	1136.2	1169.0
7.5°	945.6	952.0	961.8	972.5	996.5	1000.9	1027.7	1065.9	1110.8	1158.7
10°	880.6	887.0	897.2	909.5	939.3	944.7	978.9	1029.7	1088.3	1148.9
12.5°	852.8	854.7	860.6	872.8	898.7	902.1	939.8	997.9	1066.3	1141.6
15°	851.3	855.2	855.7	862.1	883.6	885.0	919.7	977.4	1052.7	1140.1
17.5°	866.0	868.9	864.5	868.4	886.5	888.9	916.3	967.6	1048.3	1146.5
20°	905.1	907.5	894.3	888.9	902.1	904.1	931.0	974.0	1052.7	1159.7
22.5°	988.1	989.6	957.4	935.4	936.3	937.3	960.8	999.9	1069.8	1183.6
25°	1117.7	1116.7	1065.4	1022.8	998.4	993.0	1008.7	1041.9	1098.6	1215.4
27.5°	1269.1	1261.8	1210.5	1147.0	1093.7	1085.9	1082.5	1096.6	1139.6	1257.4
30°	1440.2	1433.4	1378.1	1295.1	1221.3	1208.6	1176.3	1169.0	1200.7	1314.6
32.5°	1627.9	1623.5	1557.5	1456.8	1358.1	1343.4	1289.2	1269.6	1294.6	1401.1
35°	1785.2	1781.3	1726.6	1623.0	1502.3	1484.2	1429.0	1407.0	1419.7	1512.0
37.5°	1927.4	1925.5	1878.6	1796.9	1672.3	1650.3	1588.3	1580.9	1578.5	1658.2
40°	2059.4	2054.5	2005.6	1962.6	1870.2	1850.2	1795.5	1789.1	1770.6	1838.0
42.5°	2205.5	2192.8	2121.9	2101.9	2077.0	2060.4	2027.6	2028.6	1987.5	2040.8
45°	2324.7	2317.4	2244.6	2232.9	2259.7	2252.9	2281.2	2288.6	2208.9	2253.4
47.5°	2452.8	2445.9	2384.4	2376.1	2448.9	2450.8	2551.0	2553.4	2424.9	2474.3
50°	2610.6	2600.9	2539.8	2550.0	2631.6	2639.0	2822.2	2805.6	2623.8	2698.6
52.5°	2714.7	2720.6	2707.4	2724.0	2835.4	2842.3	3089.1	3046.5	2820.8	2920.0
55°	2791.4	2803.2	2844.2	2882.3	3050.5	3057.3	3340.7	3275.7	2984.0	3125.2
57.5°	2890.2	2873.5	2950.3	3024.6	3254.7	3272.8	3585.6	3496.6	3128.6	3302.1
60°	3031.9	3020.2	3079.8	3189.7	3483.4	3512.3	3844.6	3695.5	3234.7	3442.4
62.5°	3319.2	3289.9	3299.2	3396.5	3771.8	3809.9	4136.8	3869.0	3287.5	3497.1
65°	3748.8	3698.5	3651.6	3719.0	4177.9	4215.5	4466.7	4005.4	3267.9	3391.1
67.5°	4289.8	4239.9	4182.3	4245.8	4776.0	4805.9	4873.8	4082.1	3114.0	2982.5
70°	4736.0	4717.4	4786.3	5047.8	5731.5	5732.4	5395.7	4018.6	2692.2	2114.6
72.5°	4676.8	4665.6	5028.7	5837.0	6935.6	6909.7	5889.8	3537.7	1813.6	953.9
75°	3836.8	3909.6	4472.1	5822.8	7368.1	7364.7	5587.3	2249.0	750.2	395.4
77.5°	2057.4	2172.8	2903.4	4299.1	5752.0	5838.5	3928.2	786.8	322.1	253.1
80°	671.0	771.7	1157.2	2188.9	3737.6	3721.4	1683.6	308.9	220.4	179.4
82.5°	284.9	296.6	517.0	1033.6	1918.1	1888.3	536.1	177.4	154.9	122.7
85°	111.4	124.6	228.2	477.9	830.8	812.7	193.5	88.0	99.2	80.1
87.5°	36.7	44.5	81.6	163.7	258.5	249.2	47.4	30.3	43.0	36.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939309
 CATALOG NUMBER: GALN-SB1D-830-U-T4FT

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1204.6	0°	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6	1204.6
1208.1	2.5°	1214.9	1222.7	1232.0	1245.7	1257.4	1267.2	1277.5	1283.8	1286.3	1293.6
1210.0	5°	1223.7	1240.8	1263.8	1286.3	1308.2	1321.4	1333.2	1339.0	1344.4	1348.3
1215.4	7.5°	1238.4	1260.4	1296.5	1325.8	1344.4	1355.2	1363.0	1361.0	1363.0	1364.0
1221.3	10°	1251.1	1281.9	1324.9	1352.7	1366.9	1367.4	1365.4	1358.6	1355.2	1355.6
1230.1	12.5°	1266.2	1300.4	1346.9	1370.3	1374.2	1363.5	1355.2	1343.4	1339.0	1337.1
1243.2	15°	1286.7	1325.8	1370.8	1379.6	1369.8	1356.1	1342.0	1322.9	1313.1	1305.3
1265.7	17.5°	1311.7	1354.7	1389.4	1383.0	1362.0	1339.5	1316.6	1287.7	1267.7	1259.4
1296.5	20°	1346.4	1385.0	1403.5	1375.7	1343.9	1309.7	1270.6	1235.4	1216.9	1208.6
1335.6	22.5°	1388.4	1425.5	1417.2	1363.0	1318.0	1263.3	1214.4	1188.5	1179.2	1173.4
1385.9	25°	1438.7	1470.5	1427.0	1344.4	1275.5	1201.7	1164.1	1155.8	1151.4	1147.0
1447.5	27.5°	1504.2	1521.3	1434.3	1317.0	1209.0	1136.2	1122.5	1124.0	1122.5	1115.2
1533.0	30°	1590.7	1587.3	1441.2	1272.6	1132.8	1077.1	1078.1	1084.4	1085.4	1080.5
1652.3	32.5°	1704.6	1669.9	1444.6	1214.9	1060.0	1025.3	1026.3	1033.1	1038.0	1029.7
1808.2	35°	1842.4	1766.2	1439.2	1142.6	1003.8	975.9	968.6	970.6	972.0	964.2
1997.3	37.5°	2003.2	1874.2	1415.3	1062.4	957.4	927.5	911.9	898.7	890.9	883.6
2211.4	40°	2179.6	1991.9	1371.3	984.2	905.6	876.2	852.8	827.9	801.5	791.7
2438.1	42.5°	2364.3	2113.1	1318.0	909.5	845.9	822.0	797.1	760.9	721.3	701.3
2673.7	45°	2555.9	2237.3	1265.7	835.7	784.8	774.6	745.8	702.3	659.3	633.8
2909.7	47.5°	2743.6	2354.5	1189.0	761.4	727.7	738.9	716.4	676.4	628.5	588.4
3143.8	50°	2922.9	2464.5	1063.4	686.1	681.2	728.2	706.7	649.0	594.3	542.9
3373.5	52.5°	3100.8	2553.4	902.6	617.7	656.3	725.2	694.0	630.4	563.5	509.7
3589.5	55°	3251.8	2599.4	747.7	559.1	620.2	700.3	678.8	608.4	520.0	462.8
3737.6	57.5°	3337.8	2562.2	618.7	501.4	570.3	659.3	652.9	561.5	468.2	424.2
3766.4	60°	3300.7	2411.7	513.1	451.1	522.9	614.8	607.9	515.1	428.6	387.0
3612.0	62.5°	3095.9	2124.9	429.6	407.1	479.9	569.3	563.0	479.4	398.3	358.2
3202.0	65°	2683.4	1728.5	364.6	370.4	436.4	514.6	523.9	449.6	374.3	335.2
2477.2	67.5°	2046.7	1252.0	313.7	338.7	393.9	460.8	487.7	428.1	354.3	317.2
1433.4	70°	1166.5	711.1	270.7	307.9	356.3	411.0	459.9	411.0	332.8	302.0
537.1	72.5°	442.3	326.5	234.1	277.1	320.1	369.0	429.1	384.1	307.9	284.9
277.6	75°	236.0	198.9	196.9	240.9	278.6	327.9	390.5	357.7	289.3	301.0
192.1	77.5°	160.8	140.7	164.7	206.2	233.1	282.5	349.4	317.7	250.7	249.7
132.9	80°	111.4	99.7	133.9	166.2	180.3	237.5	304.9	272.7	204.3	190.6
82.1	82.5°	67.0	65.0	100.2	124.1	127.6	183.3	252.7	228.7	167.1	145.6
48.9	85°	36.7	38.6	64.0	72.8	74.3	128.0	197.9	176.9	128.5	108.0
17.6	87.5°	10.3	13.2	23.5	28.8	35.7	66.5	117.8	105.1	64.5	45.0
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>
1204.6
1293.1
1349.3
1365.4
1356.6
1336.1
1307.8
1259.9
1207.6
1174.3
1147.0
1116.7
1083.0
1033.6
969.6
888.5
796.1
703.7
631.9
584.0
538.5
503.8
457.9
418.3
381.2
351.9
328.9
311.3
298.1
281.0
<i>310.8</i>
230.2
182.3
146.6
109.0
45.0
0.0

F REPORT)