

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: P939642

Luminaire Tested: **GALN-SB2B-830-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939642  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB2B-830-U-SL4  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

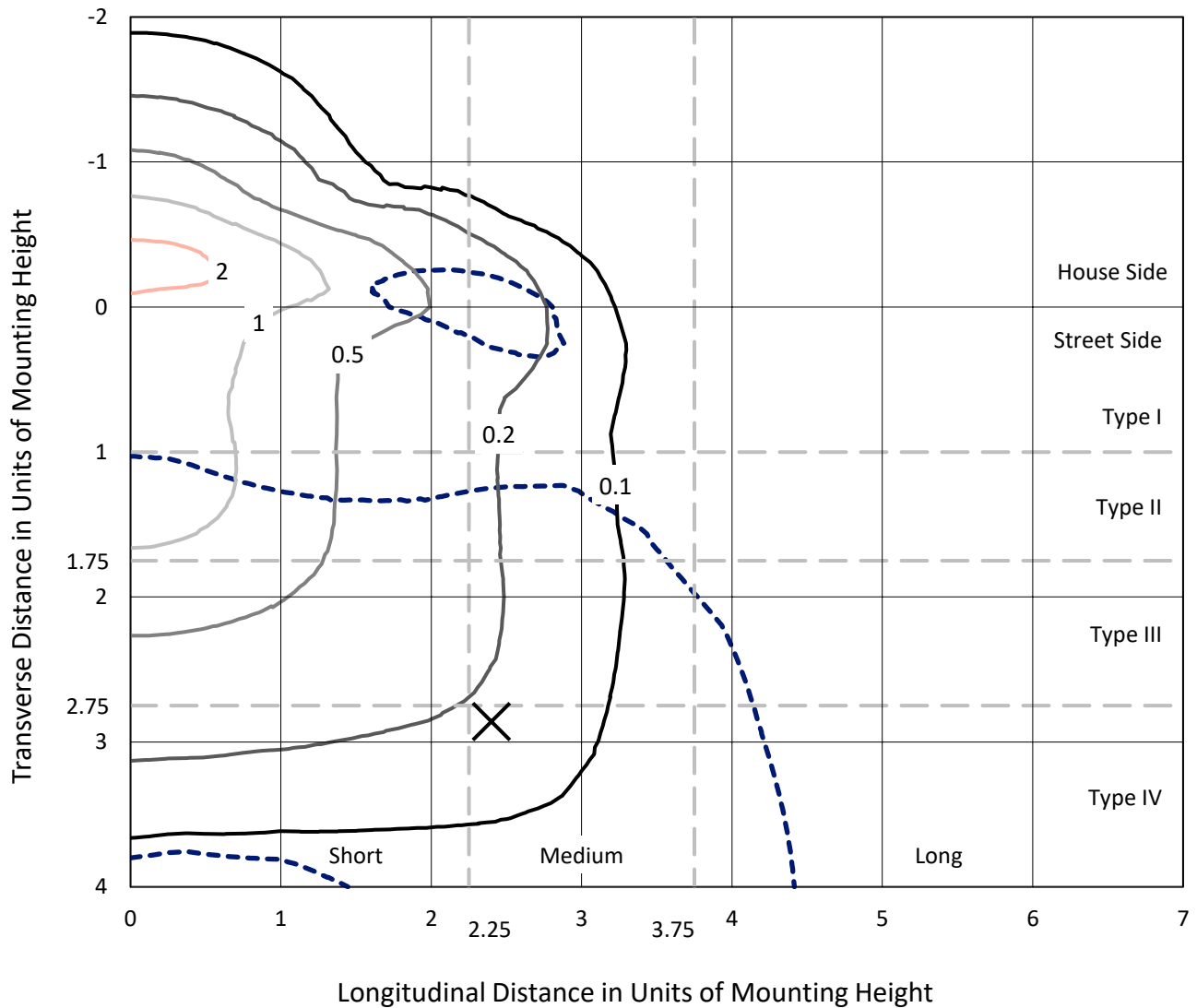
Lumens per Lamp: N/A  
Luminaire Lumens: 10030 lumens  
Efficiency: N/A  
Efficacy: 135.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P939642  
 CATALOG NUMBER: GALN-SB2B-830-U-SL4

### Iso-Footcandle Lines of Horizontal Illumination

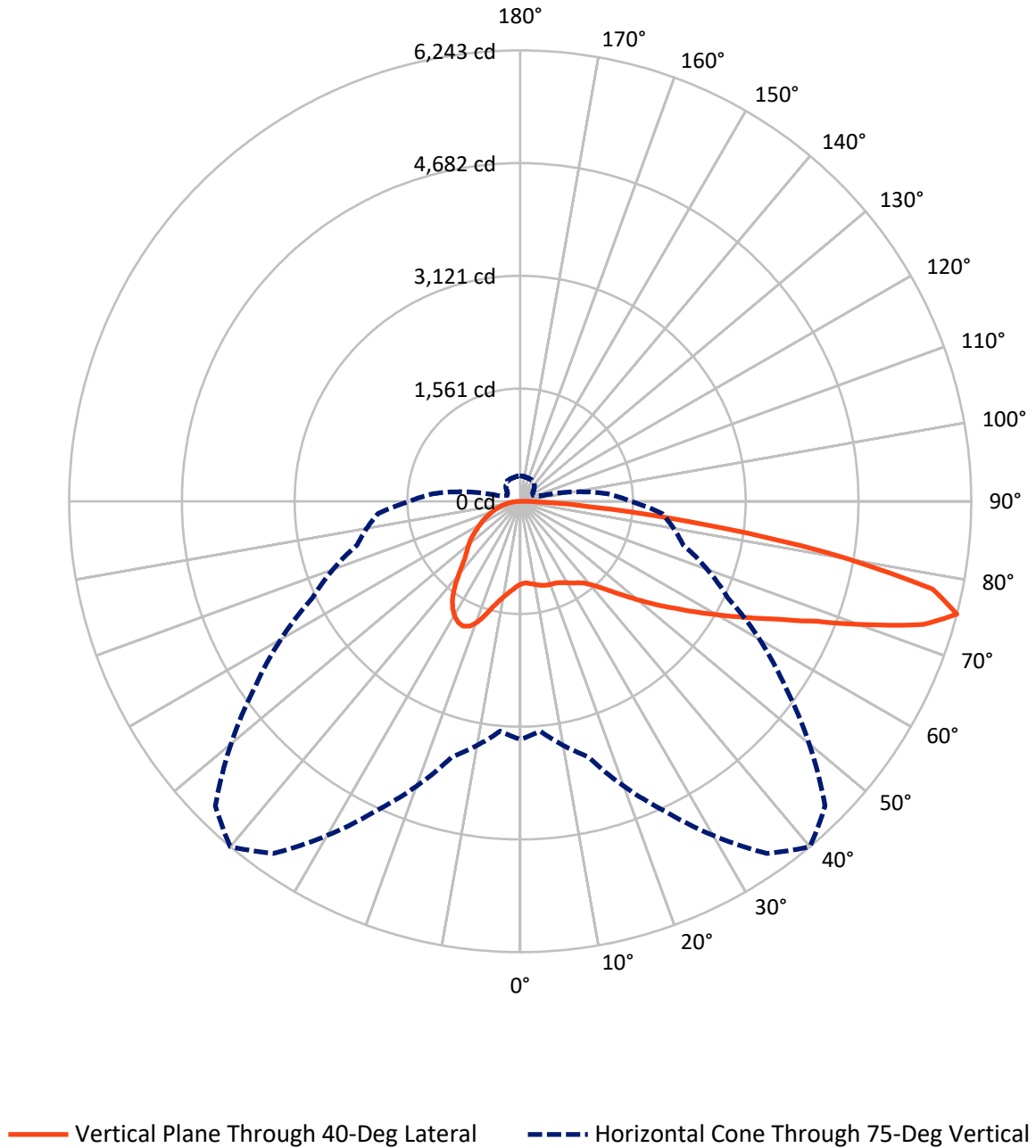
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P939642  
CATALOG NUMBER: GALN-SB2B-830-U-SL4

### Luminous Intensity Polar Plot



REPORT NUMBER: P939642  
 CATALOG NUMBER: GALN-SB2B-830-U-SL4

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3107.6	0.0	3107.6
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	6922.4	0.0	6922.4
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	10030.0	0.0	10030.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.5	1.1
10°-20°	384.4	3.8
20°-30°	701.9	7.0
30°-40°	995.4	9.9
40°-50°	1344.1	13.4
50°-60°	1808.2	18.0
60°-70°	2295.0	22.9
70°-80°	2082.9	20.8
80°-90°	303.6	3.0
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°	10030.0	100.0
0°-180°	10030.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P939642

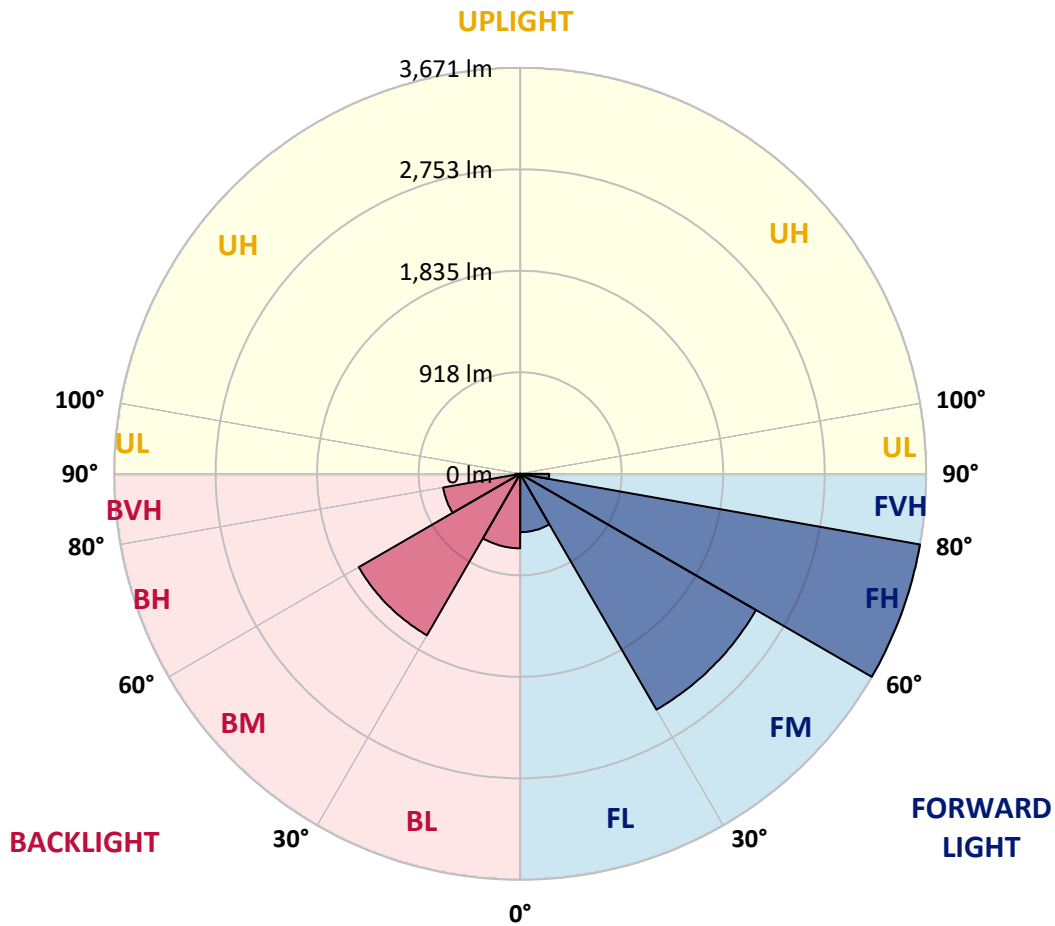
CATALOG NUMBER: GALN-SB2B-830-U-SL4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	527.6	5.3			
FM (30°-60°)	2462.1	24.5			
FH (60°-80°)	3670.8	36.6			G2/5000
FVH (80°-90°)	261.8	2.6			G3/500
BL (0°-30°)	673.1	6.7	B2/1000		
BM (30°-60°)	1685.6	16.8	B2/2500		
BH (60°-80°)	707.1	7.0	B2/1000		G2/1000
BVH (80°-90°)	41.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Medium



REPORT NUMBER: P939642

CATALOG NUMBER: GALN-SB2B-830-U-SL4

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9
2.5°	1129.4	1135.8	1134.2	1132.0	1132.0	1132.6	1132.0	1135.8	1139.5	1143.2
5°	1141.1	1147.5	1144.3	1141.6	1139.5	1139.0	1137.4	1136.8	1139.0	1143.8
7.5°	1164.0	1170.4	1165.6	1160.8	1156.5	1154.4	1152.3	1149.1	1147.5	1150.1
10°	1189.5	1195.9	1190.0	1181.5	1174.6	1171.9	1169.8	1166.6	1164.5	1166.1
12.5°	1215.0	1221.4	1213.4	1201.7	1192.7	1191.1	1188.4	1187.4	1186.8	1186.3
15°	1239.0	1244.3	1234.2	1220.4	1210.8	1208.1	1205.5	1207.1	1209.7	1212.9
17.5°	1257.6	1262.9	1248.0	1229.9	1220.9	1219.8	1218.2	1223.5	1231.0	1239.0
20°	1274.6	1279.9	1260.8	1236.3	1225.7	1225.7	1226.2	1237.4	1248.0	1259.7
22.5°	1298.6	1302.8	1279.4	1245.9	1230.5	1231.5	1235.8	1247.0	1260.3	1276.2
25°	1334.2	1337.4	1308.7	1264.0	1246.4	1249.6	1253.3	1258.7	1271.4	1290.0
27.5°	1391.7	1394.3	1356.5	1295.9	1269.3	1274.6	1279.9	1276.2	1282.1	1298.0
30°	1472.5	1474.1	1426.2	1345.9	1308.1	1310.8	1311.9	1296.4	1285.3	1298.0
32.5°	1568.3	1567.7	1510.8	1406.5	1352.3	1349.6	1340.6	1310.3	1284.2	1295.4
35°	1716.7	1710.8	1637.4	1491.7	1402.3	1385.8	1364.5	1325.7	1289.5	1292.7
37.5°	1962.5	1944.4	1842.8	1631.0	1476.8	1434.7	1403.4	1350.7	1301.2	1291.6
40°	2239.6	2216.8	2105.0	1822.0	1588.5	1520.9	1470.4	1386.3	1320.4	1296.4
42.5°	2568.4	2535.9	2415.7	2047.1	1730.0	1632.1	1556.0	1431.6	1348.6	1311.9
45°	2972.2	2929.1	2758.8	2300.8	1908.2	1777.9	1676.3	1500.2	1391.7	1341.6
47.5°	3380.2	3390.8	3148.8	2591.3	2122.1	1957.7	1826.8	1603.4	1454.4	1389.5
50°	3813.7	3821.2	3536.6	2913.1	2364.6	2160.9	1996.0	1718.8	1541.7	1457.6
52.5°	4152.1	4153.1	3888.8	3249.9	2617.3	2384.3	2178.4	1850.8	1642.7	1548.1
55°	4363.8	4361.2	4135.6	3568.5	2907.8	2618.9	2380.6	2000.8	1766.2	1654.5
57.5°	4517.6	4509.6	4305.8	3842.5	3217.4	2896.1	2609.4	2171.0	1911.9	1781.1
60°	4576.1	4571.3	4421.3	4079.2	3543.0	3202.5	2873.2	2361.4	2077.4	1930.5
62.5°	4598.4	4607.5	4534.6	4308.5	3891.4	3541.9	3163.1	2589.1	2263.6	2099.7
65°	4677.1	4693.6	4678.7	4608.5	4285.1	3939.3	3547.8	2859.9	2466.8	2281.1
67.5°	4833.0	4849.5	4855.9	4967.6	4766.0	4434.6	4027.6	3197.2	2704.6	2469.4
70°	4829.3	4824.5	4937.3	5253.3	5368.2	5120.3	4674.5	3612.1	2988.1	2625.8
72.5°	4395.7	4357.4	4623.9	5250.1	5869.3	5836.3	5464.5	4147.3	3232.8	2645.0
75°	3297.7	3195.6	3666.4	4731.4	5952.8	6242.8	5966.7	4479.3	3174.8	2337.0
77.5°	1410.3	1307.6	1862.5	3502.5	5327.8	5835.8	5506.0	3907.9	2534.3	1545.4
80°	369.2	368.7	562.8	1588.0	3623.3	4309.6	3780.8	2523.7	1448.0	552.2
82.5°	152.7	149.0	206.9	617.6	1770.4	2418.4	1973.6	1125.7	522.9	149.5
85°	56.9	56.4	100.5	213.3	624.5	997.5	721.9	287.8	130.3	72.9
87.5°	16.0	15.4	21.8	73.9	152.1	230.9	123.4	47.3	36.7	28.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939642  
 CATALOG NUMBER: GALN-SB2B-830-U-SL4

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1146.9	0°	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9	1146.9
1149.1	2.5°	1150.7	1153.3	1158.1	1161.8	1166.6	1171.9	1179.4	1184.2	1189.0	1192.2
1151.7	5°	1155.5	1161.3	1173.5	1185.8	1200.1	1213.4	1228.9	1240.0	1249.1	1251.7
1161.3	7.5°	1166.1	1175.7	1196.4	1217.2	1240.0	1261.9	1284.2	1303.3	1318.8	1324.6
1178.3	10°	1184.7	1197.5	1226.7	1256.0	1286.3	1319.8	1348.6	1376.2	1398.0	1407.1
1198.5	12.5°	1208.1	1224.1	1262.4	1302.8	1344.8	1391.1	1428.4	1462.4	1489.5	1501.8
1226.7	15°	1238.4	1259.2	1308.1	1362.4	1424.1	1488.5	1535.8	1573.6	1603.9	1618.8
1256.0	17.5°	1271.4	1299.1	1360.8	1442.7	1531.0	1615.6	1670.9	1698.6	1730.0	1744.4
1283.1	20°	1303.3	1337.4	1425.7	1544.9	1662.4	1752.3	1797.0	1804.5	1806.6	1808.2
1308.7	22.5°	1336.3	1382.1	1507.1	1673.6	1799.7	1861.9	1868.3	1836.4	1791.7	1771.0
1333.7	25°	1372.5	1433.1	1613.5	1815.6	1917.8	1925.2	1876.3	1798.6	1714.0	1675.2
1353.9	27.5°	1407.6	1492.2	1741.2	1951.3	2002.9	1937.5	1832.1	1722.0	1619.9	1578.9
1368.2	30°	1442.7	1559.8	1882.1	2069.9	2041.7	1907.1	1762.4	1639.6	1536.9	1493.8
1381.0	32.5°	1478.4	1638.5	2044.4	2155.6	2034.8	1842.8	1675.7	1547.0	1456.6	1411.3
1392.2	35°	1518.8	1735.3	2198.1	2202.4	1988.5	1748.1	1561.4	1436.3	1357.6	1321.4
1405.5	37.5°	1571.5	1858.2	2333.8	2214.1	1907.7	1609.2	1419.3	1305.5	1240.6	1224.1
1425.2	40°	1636.9	2006.1	2437.5	2195.5	1788.0	1440.6	1264.0	1173.0	1136.3	1140.0
1451.8	42.5°	1722.0	2171.5	2510.4	2147.6	1621.5	1266.6	1127.8	1087.4	1104.9	1119.8
1491.7	45°	1832.7	2343.4	2555.6	2066.2	1433.1	1119.3	1047.5	1057.0	1070.3	1071.9
1556.0	47.5°	1974.2	2517.3	2585.4	1943.3	1241.1	1015.5	996.4	998.5	995.9	984.7
1652.3	50°	2150.8	2686.5	2612.0	1780.5	1077.8	950.6	925.1	917.7	881.0	844.8
1780.5	52.5°	2351.9	2841.8	2623.2	1578.4	950.6	896.4	854.9	808.1	739.4	728.3
1941.7	55°	2575.3	2985.5	2594.5	1329.9	843.7	826.7	763.9	707.5	700.1	690.5
2154.0	57.5°	2842.4	3140.3	2535.9	1052.8	734.1	745.3	684.1	690.5	677.2	662.3
2426.9	60°	3134.4	3300.4	2433.3	800.1	620.8	643.7	663.4	662.8	659.1	646.9
2714.7	62.5°	3397.2	3405.7	2231.1	612.8	521.3	565.0	618.7	618.2	615.0	608.1
3015.2	65°	3553.6	3389.8	1893.8	482.5	439.4	500.1	558.0	562.3	562.8	562.3
3241.3	67.5°	3525.9	3203.0	1431.0	384.1	371.9	434.1	497.9	503.8	508.0	509.1
3270.1	70°	3213.1	2792.9	933.1	306.4	311.7	376.1	441.0	446.9	450.6	454.8
2837.6	72.5°	2504.6	2053.4	534.1	247.9	259.1	326.1	384.6	391.5	393.7	401.6
1974.7	75°	1526.2	1207.6	288.3	195.2	212.8	278.8	328.8	336.7	340.5	350.0
969.8	77.5°	725.6	522.9	164.4	152.1	171.3	227.7	277.7	286.7	276.6	281.9
267.6	80°	245.2	194.2	103.7	116.0	130.9	177.7	222.4	231.4	210.1	209.1
88.8	82.5°	85.6	78.7	66.0	77.1	84.6	127.1	168.1	179.8	156.4	155.9
39.9	85°	33.5	31.9	36.7	42.0	50.5	78.2	110.7	116.5	96.3	77.7
11.7	87.5°	6.9	7.4	9.0	9.6	15.4	27.1	39.9	48.9	38.8	33.0
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>
1146.9
1190.0
1252.8
1325.2
1407.6
1501.8
1617.7
1743.8
1812.4
1776.8
1681.0
1583.7
1498.6
1417.2
1329.4
1235.8
1152.8
1133.6
1082.6
993.2
849.6
732.0
692.1
659.7
642.6
605.4
562.3
510.2
457.0
404.8
351.1
277.7
206.9
148.4
76.6
30.3
0.0

F REPORT)