

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: P939645

Luminaire Tested: **GALN-SB2B-830-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
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-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10026 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

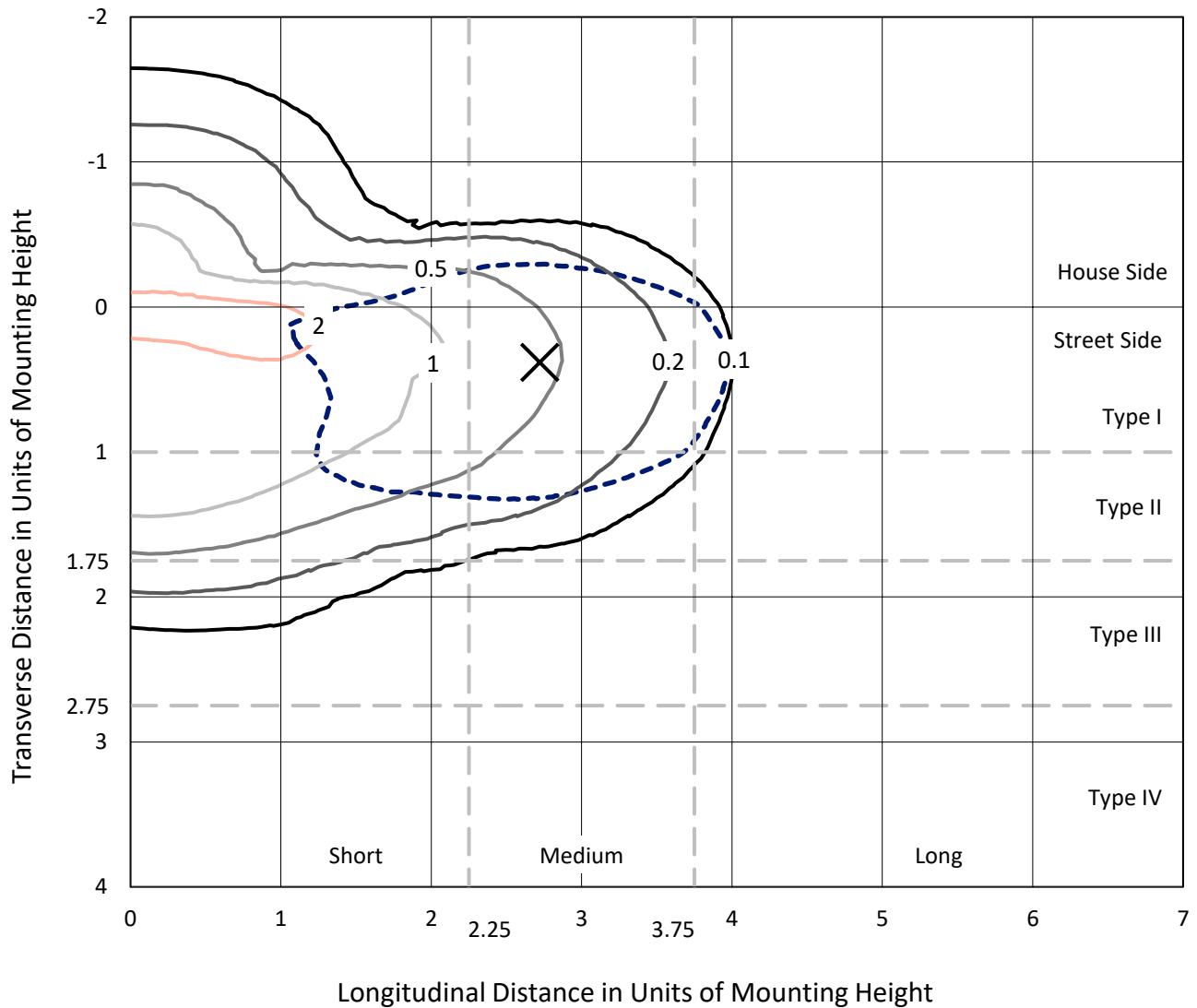
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939645
 CATALOG NUMBER: GALN-SB2B-830-U-T2

Iso-Footcandle Lines of Horizontal Illumination

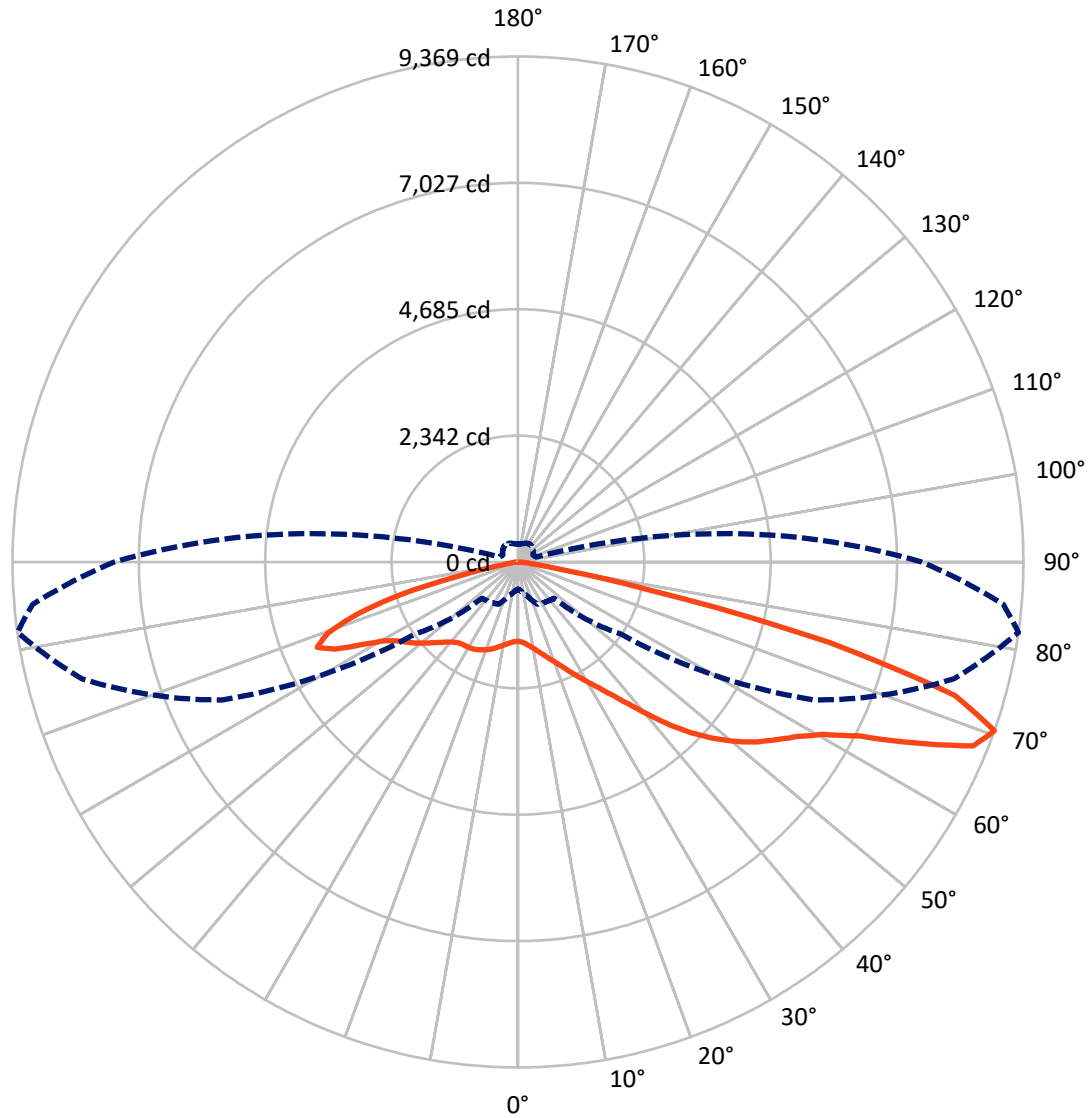
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P939645
CATALOG NUMBER: GALN-SB2B-830-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P939645

CATALOG NUMBER: GALN-SB2B-830-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2471.7	0.0	2471.7
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	7554.4	0.0	7554.4
	% Fixture	75.3	0.0	75.3
Total	Lumens	10026.0	0.0	10026.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.8	1.4
10°-20°	398.7	4.0
20°-30°	667.1	6.7
30°-40°	1042.1	10.4
40°-50°	1659.7	16.6
50°-60°	2309.7	23.0
60°-70°	2416.0	24.1
70°-80°	1262.7	12.6
80°-90°	131.1	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°	10026.0	100.0
0°-180°	10026.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939645

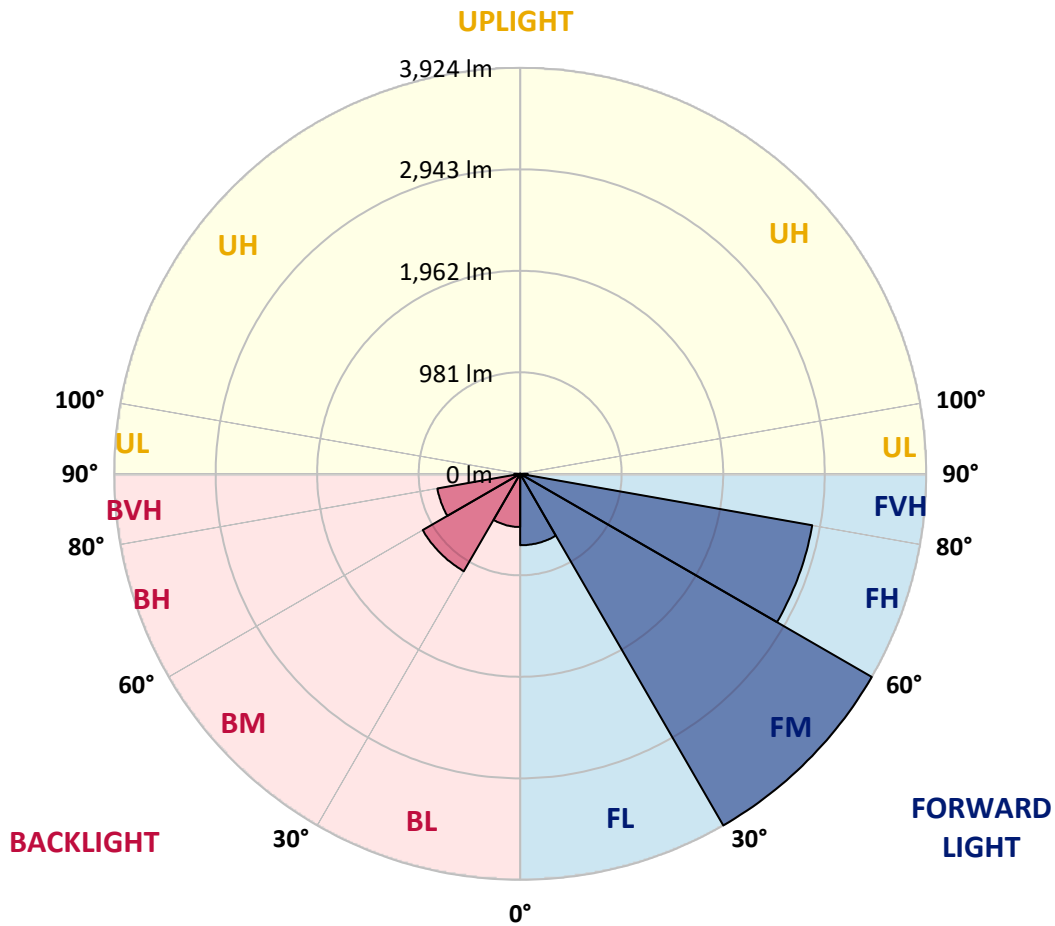
CATALOG NUMBER: GALN-SB2B-830-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	690.4	6.9			
FM (30°-60°)	3924.1	39.1			
FH (60°-80°)	2866.5	28.6			G2/5000
FVH (80°-90°)	73.4	0.7			G1/100
BL (0°-30°)	514.2	5.1	B2/1000		
BM (30°-60°)	1087.4	10.8	B2/2500		
BH (60°-80°)	812.3	8.1	B2/1000		G2/1000
BVH (80°-90°)	57.7	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 II Medium



REPORT NUMBER: P939645

CATALOG NUMBER: GALN-SB2B-830-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9
2.5°	1505.0	1513.6	1510.9	1508.2	1508.2	1504.5	1504.0	1498.7	1494.4	1487.5
5°	1524.2	1533.2	1532.2	1534.3	1541.2	1542.8	1544.4	1541.2	1532.7	1524.2
7.5°	1507.2	1517.3	1520.5	1533.2	1554.5	1573.7	1588.0	1593.9	1585.9	1573.7
10°	1449.7	1460.9	1472.1	1502.4	1540.2	1585.4	1623.7	1646.6	1645.0	1633.3
12.5°	1333.2	1344.9	1368.9	1427.9	1497.1	1576.9	1648.2	1696.0	1712.5	1704.0
15°	1240.1	1250.2	1268.3	1329.0	1418.9	1540.2	1657.2	1750.3	1792.3	1787.5
17.5°	1237.4	1241.7	1252.9	1281.6	1350.8	1482.7	1647.6	1803.5	1883.8	1883.3
20°	1284.3	1285.9	1292.2	1298.1	1337.5	1439.1	1623.2	1847.7	1986.5	1986.5
22.5°	1349.2	1348.1	1354.5	1349.2	1368.3	1435.4	1607.7	1886.5	2100.9	2109.4
25°	1446.5	1441.2	1439.6	1427.4	1431.1	1469.9	1624.8	1930.7	2236.6	2254.1
27.5°	1576.3	1567.8	1562.0	1533.8	1524.2	1541.2	1676.9	1983.9	2387.7	2418.0
30°	1745.5	1730.1	1721.6	1672.6	1638.1	1640.7	1755.6	2054.6	2545.7	2594.6
32.5°	1976.4	1952.5	1929.6	1849.3	1785.9	1765.2	1857.2	2152.5	2717.0	2795.2
35°	2235.0	2215.8	2191.3	2067.4	1970.0	1922.1	1994.5	2289.2	2917.5	3041.5
37.5°	2483.9	2467.5	2479.2	2312.1	2186.6	2116.9	2174.3	2472.8	3164.9	3347.9
40°	2741.4	2728.7	2730.3	2570.7	2424.4	2346.2	2392.4	2703.1	3448.5	3712.3
42.5°	3021.3	3011.7	2979.8	2838.3	2673.9	2601.0	2643.5	2969.1	3752.8	4127.3
45°	3334.6	3328.8	3299.0	3136.7	2948.4	2866.5	2923.9	3262.8	4058.7	4517.8
47.5°	3605.4	3610.2	3606.5	3469.8	3274.5	3154.3	3222.9	3569.2	4343.3	4884.9
50°	3735.8	3760.8	3797.5	3754.9	3633.6	3511.3	3524.6	3865.0	4614.6	5229.1
52.5°	3667.7	3715.0	3815.0	3883.1	3929.9	3904.4	3868.8	4158.7	4870.0	5539.8
55°	3413.9	3480.4	3646.4	3810.8	4049.6	4235.3	4282.1	4484.3	5119.0	5813.2
57.5°	2951.6	3059.6	3208.5	3541.0	3943.2	4395.4	4764.1	4936.0	5382.9	6105.3
60°	2158.9	2303.6	2488.7	2983.5	3570.8	4309.8	5174.3	5629.7	5757.9	6483.6
62.5°	1381.6	1471.0	1641.2	2107.3	2782.4	3870.9	5299.9	6496.9	6393.7	7103.9
65°	945.9	1003.4	1159.2	1421.0	1798.7	2881.4	4963.6	7147.0	7403.4	8087.0
67.5°	687.4	731.0	864.0	1093.3	1172.0	1705.1	3851.7	7117.2	8385.0	9100.0
70°	501.2	532.0	643.7	864.0	901.8	948.6	2333.4	6050.0	8363.7	9369.2
72.5°	371.3	392.6	467.6	670.3	729.9	640.5	1155.0	4397.0	7186.9	8474.3
75°	268.7	284.6	340.0	512.9	584.1	487.9	576.2	2569.6	5013.1	5961.1
77.5°	205.4	217.6	253.8	375.6	467.6	366.0	357.5	1182.1	2377.0	2388.7
80°	164.9	172.9	192.6	264.4	358.6	274.0	233.0	477.2	751.2	635.7
82.5°	121.3	134.6	162.8	185.7	256.4	188.9	142.0	241.0	285.7	245.8
85°	69.2	78.2	98.4	133.0	163.9	115.4	81.4	106.9	133.0	109.1
87.5°	24.5	31.9	34.6	52.1	71.3	47.9	31.4	30.9	43.6	32.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939645
 CATALOG NUMBER: GALN-SB2B-830-U-T2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1469.9	0°	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9	1469.9
1485.9	2.5°	1480.6	1477.9	1467.3	1452.9	1438.0	1423.7	1418.9	1408.8	1401.8	1398.1
1520.5	5°	1510.4	1501.9	1476.9	1444.9	1411.4	1375.2	1349.7	1326.3	1309.3	1293.3
1567.8	7.5°	1552.9	1538.0	1494.9	1439.1	1379.5	1319.4	1274.7	1240.6	1217.8	1202.9
1623.2	10°	1602.4	1579.5	1513.6	1430.0	1338.0	1251.8	1199.1	1169.9	1155.5	1147.5
1686.5	12.5°	1659.3	1626.9	1532.7	1409.3	1274.7	1176.3	1140.1	1131.6	1132.1	1132.6
1766.3	15°	1729.6	1684.3	1548.1	1364.1	1192.2	1118.3	1111.9	1125.7	1140.1	1147.0
1856.7	17.5°	1808.8	1745.0	1550.8	1289.6	1111.4	1081.0	1101.3	1131.0	1152.9	1162.4
1957.8	20°	1893.9	1806.7	1531.6	1184.2	1044.9	1050.7	1086.9	1125.2	1149.1	1161.4
2073.2	22.5°	1991.3	1872.7	1485.9	1073.6	990.6	1017.7	1060.3	1097.5	1122.5	1134.8
2208.9	25°	2102.5	1946.6	1414.1	980.5	943.8	980.5	1023.1	1053.9	1074.1	1085.3
2360.5	27.5°	2225.9	2023.8	1318.3	906.5	902.8	942.2	977.3	1001.2	1011.9	1020.4
2521.7	30°	2349.9	2094.0	1202.3	850.7	867.2	904.4	929.4	940.1	943.2	944.8
2701.5	32.5°	2483.9	2154.6	1080.5	804.4	833.1	867.7	882.6	887.4	872.5	862.4
2919.7	35°	2646.2	2219.5	961.3	767.7	799.6	829.4	834.2	829.9	812.4	791.6
3193.1	37.5°	2846.8	2300.4	866.1	741.6	768.2	787.9	782.1	781.0	782.6	758.1
3521.9	40°	3092.6	2405.7	796.4	721.4	742.7	746.9	730.4	739.5	747.5	710.2
3882.6	42.5°	3365.5	2532.9	752.3	707.6	721.4	711.3	685.8	695.9	694.8	645.9
4244.9	45°	3643.7	2671.2	736.8	697.5	701.7	681.5	653.3	656.0	633.6	589.5
4592.3	47.5°	3920.4	2819.6	746.4	688.9	677.2	654.4	632.6	620.9	587.9	554.9
4925.3	50°	4191.7	2975.5	781.5	671.9	643.7	630.4	614.5	593.7	558.6	530.4
5240.3	52.5°	4443.3	3132.5	820.9	643.7	601.7	609.7	599.6	575.6	541.1	512.3
5538.2	55°	4681.7	3289.4	836.3	604.9	562.3	591.6	585.7	541.6	500.1	476.7
5850.0	57.5°	4941.3	3478.3	819.3	555.4	530.4	570.8	548.5	499.6	475.6	458.1
6255.9	60°	5300.9	3774.6	782.6	494.2	500.1	540.0	501.7	481.5	455.4	435.7
6864.5	62.5°	5898.4	4327.3	723.5	433.6	464.4	494.2	479.3	459.1	432.5	413.4
7905.1	65°	6781.5	5095.6	612.3	386.2	424.5	449.5	455.4	435.2	407.5	387.3
8817.0	67.5°	7526.3	5577.6	463.4	346.9	383.6	413.4	429.9	410.2	380.9	361.2
9030.3	70°	7485.3	5227.5	353.8	308.0	347.4	377.7	399.0	383.6	352.2	333.6
8202.5	72.5°	6648.5	4373.1	286.2	268.7	310.7	340.5	366.0	354.3	322.4	304.3
6009.0	75°	4884.4	3104.3	228.8	228.8	264.9	301.6	329.8	322.4	293.1	280.4
2522.8	77.5°	2058.9	1302.4	179.3	189.9	220.3	259.1	294.2	296.9	271.3	287.3
667.1	80°	547.4	359.1	136.7	149.5	172.9	213.9	255.9	254.8	227.2	212.3
247.9	82.5°	208.5	141.5	97.4	105.3	125.0	163.9	202.7	209.1	181.4	156.9
97.4	85°	80.3	60.6	60.1	63.3	72.9	108.5	153.2	158.5	136.7	116.0
27.1	87.5°	20.7	18.1	22.3	21.3	33.5	58.0	87.8	91.0	83.5	48.4
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>
1469.9
1402.4
1299.7
1206.1
1149.7
1133.7
1146.5
1164.6
1164.6
1138.0
1088.5
1023.6
948.6
865.6
792.7
759.7
711.3
645.3
591.1
554.9
528.3
512.9
474.6
456.5
434.7
413.4
388.4
361.8
335.2
304.3
276.6
260.7
197.4
156.9
119.7
69.2
0.0

F REPORT)