

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: P947054

Luminaire Tested: **GALN-SB2C-735-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11537 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

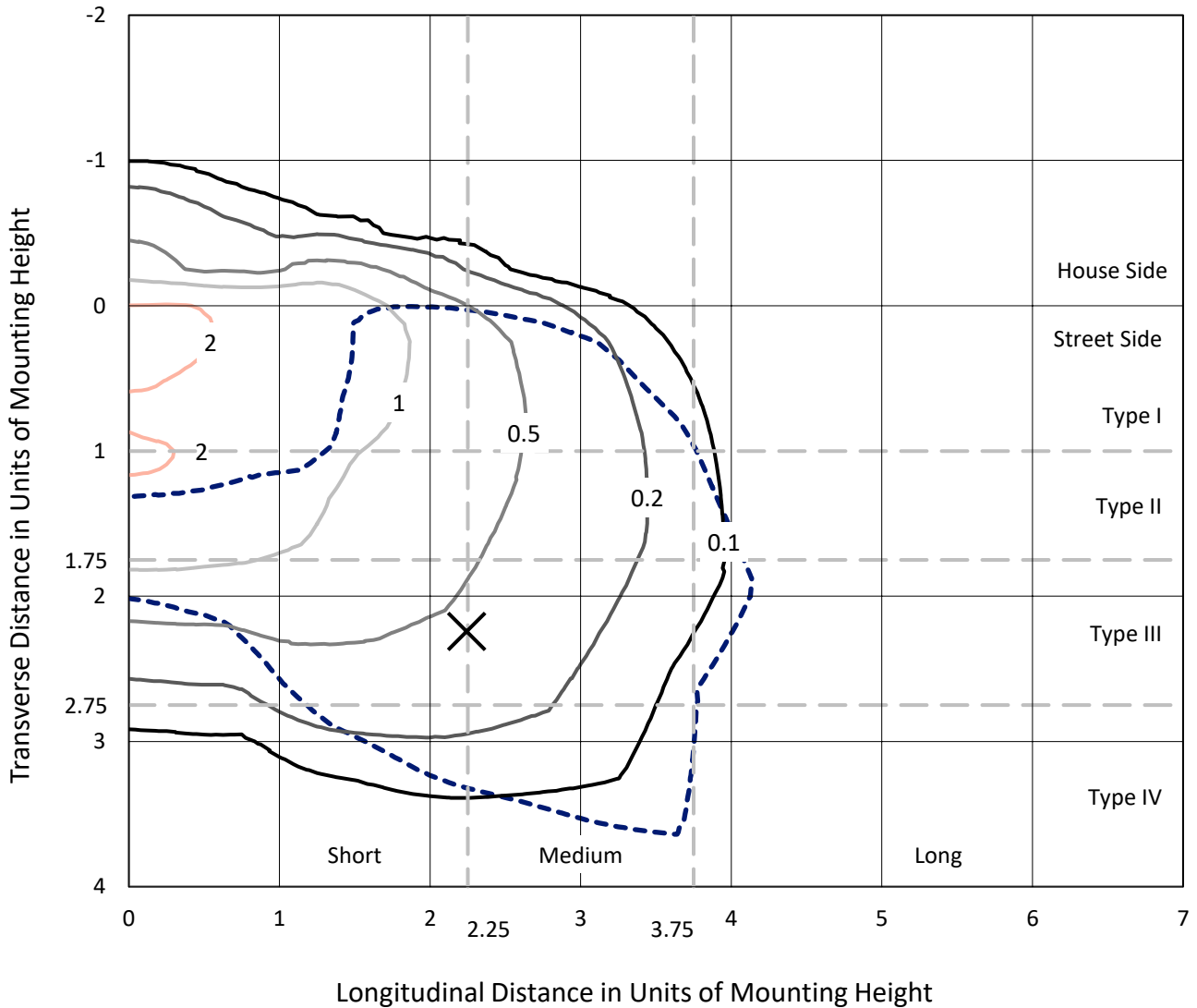
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947054
 CATALOG NUMBER: GALN-SB2C-735-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

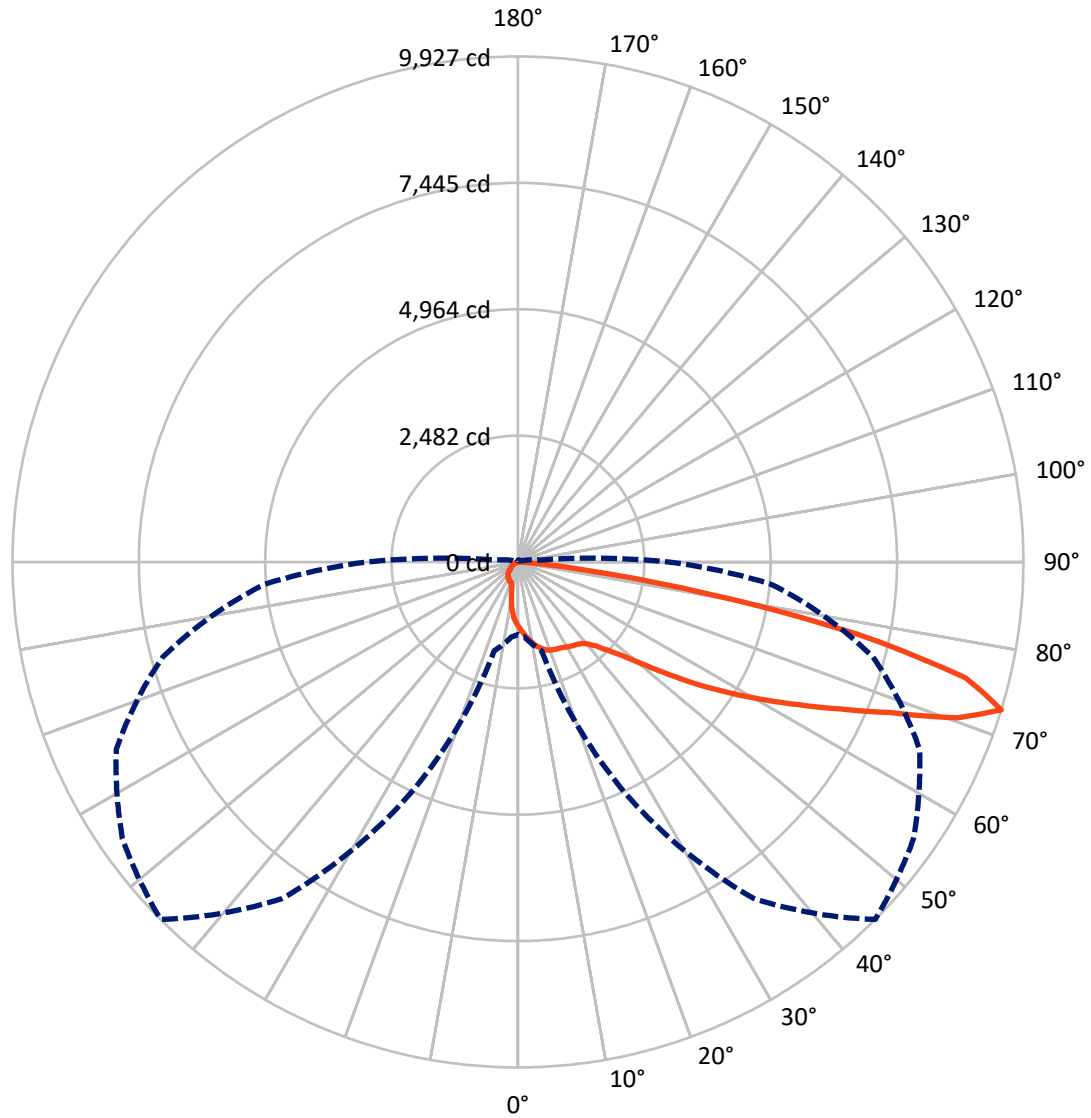
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P947054
CATALOG NUMBER: GALN-SB2C-735-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P947054
 CATALOG NUMBER: GALN-SB2C-735-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1212.2	0.0	1212.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	10324.8	0.0	10324.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	11537.0	0.0	11537.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	1.0
10°-20°	348.0	3.0
20°-30°	571.5	5.0
30°-40°	810.6	7.0
40°-50°	1339.8	11.6
50°-60°	2406.7	20.9
60°-70°	3341.9	29.0
70°-80°	2424.1	21.0
80°-90°	175.3	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°	11537.0	100.0
0°-180°	11537.0	100.0

Coefficient of Utilization



REPORT NUMBER: P947054

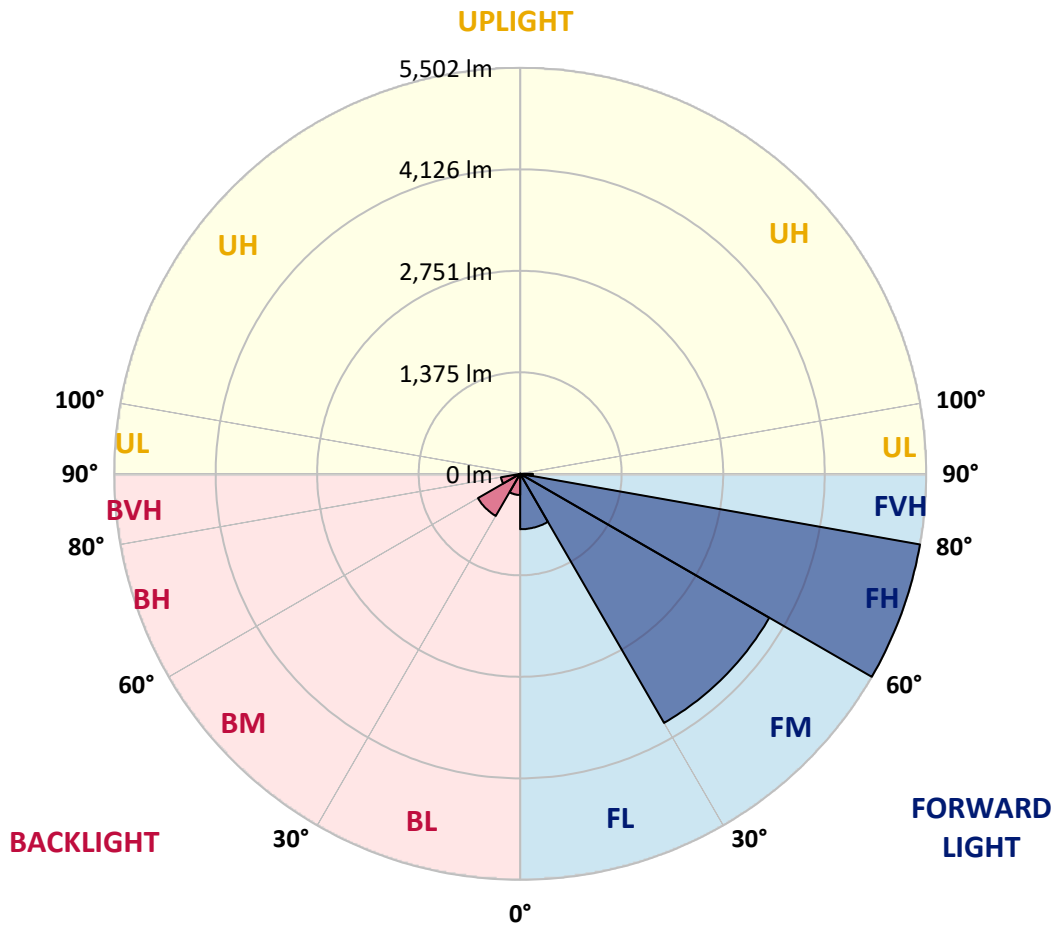
CATALOG NUMBER: GALN-SB2C-735-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	751.5	6.5			
FM (30°-60°)	3897.8	33.8			
FH (60°-80°)	5501.7	47.7			G3/7500
FVH (80°-90°)	173.8	1.5			G2/225
BL (0°-30°)	287.1	2.5	B1/500		
BM (30°-60°)	659.3	5.7	B1/1000		
BH (60°-80°)	264.3	2.3	B1/500		G1/500
BVH (80°-90°)	1.5	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-G3

Type IV Short



REPORT NUMBER: P947054

CATALOG NUMBER: GALN-SB2C-735-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9
2.5°	1380.4	1382.8	1381.2	1371.8	1356.0	1347.4	1342.7	1326.9	1316.7	1298.6
5°	1507.2	1516.7	1511.2	1492.3	1462.3	1441.1	1434.8	1402.5	1373.4	1339.5
7.5°	1641.9	1646.6	1636.4	1612.0	1571.8	1535.6	1530.1	1485.2	1438.7	1386.7
10°	1758.4	1764.0	1748.2	1712.8	1667.1	1622.2	1614.3	1564.7	1509.6	1445.8
12.5°	1856.1	1861.6	1841.1	1798.6	1748.2	1701.7	1693.9	1641.9	1581.3	1510.4
15°	1930.1	1940.3	1912.8	1867.1	1812.8	1766.3	1762.4	1711.2	1652.1	1573.4
17.5°	1973.4	1983.7	1957.7	1902.5	1856.1	1816.7	1812.0	1769.5	1714.3	1638.7
20°	1980.5	1990.0	1962.4	1914.4	1875.8	1844.3	1841.9	1811.2	1771.0	1698.6
22.5°	1959.2	1971.1	1945.9	1907.3	1880.5	1864.0	1860.8	1843.5	1820.7	1759.2
25°	1937.2	1946.6	1927.7	1893.9	1879.7	1878.1	1880.5	1877.3	1872.6	1820.7
27.5°	1935.6	1945.9	1924.6	1892.3	1884.4	1901.0	1903.3	1918.3	1922.2	1876.6
30°	1949.0	1956.1	1935.6	1901.8	1897.8	1935.6	1936.4	1963.2	1969.5	1923.8
32.5°	1978.1	1986.0	1965.5	1915.9	1910.4	1963.2	1965.5	2001.0	2011.2	1974.2
35°	2046.7	2056.1	2032.5	1955.3	1935.6	1989.2	1996.3	2038.0	2058.5	2027.8
37.5°	2217.5	2190.0	2157.7	2034.8	1993.1	2030.1	2041.9	2090.8	2127.0	2091.5
40°	2642.0	2555.4	2454.6	2170.3	2093.9	2117.5	2127.0	2175.8	2225.4	2190.8
42.5°	3279.1	3176.7	3014.5	2482.1	2245.9	2257.7	2264.8	2307.3	2377.4	2349.8
45°	3846.8	3809.8	3644.5	3014.5	2530.2	2471.9	2480.6	2502.6	2605.8	2595.5
47.5°	4283.1	4261.8	4134.3	3625.6	3010.5	2734.1	2758.5	2768.8	2917.6	2953.8
50°	4618.6	4610.7	4496.5	4168.9	3638.2	3120.8	3129.4	3107.4	3330.2	3420.0
52.5°	4935.1	4961.9	4877.6	4673.7	4308.3	3627.1	3625.6	3521.6	3822.4	3957.9
55°	5221.0	5230.4	5239.1	5188.7	4982.4	4203.6	4188.6	4018.5	4393.3	4533.5
57.5°	5489.5	5493.4	5570.6	5673.8	5684.0	4822.5	4795.0	4591.0	5017.0	5117.0
60°	5669.8	5688.0	5851.0	6137.6	6262.8	5461.2	5446.2	5238.3	5651.7	5698.2
62.5°	5410.0	5520.2	5931.3	6499.8	6809.3	6169.1	6162.0	5966.7	6319.5	6281.7
65°	4379.2	4565.8	5288.7	6744.8	7345.6	6959.7	6970.0	6762.1	7005.4	6882.6
67.5°	3063.3	3260.2	4115.4	6764.4	7944.9	7888.2	7947.2	7621.2	7733.8	7458.2
70°	2118.3	2219.9	2776.6	6340.8	8411.8	9167.0	9165.5	8676.4	8458.3	7720.4
72.5°	1424.5	1477.3	1803.3	5030.4	8068.5	9927.0	9881.3	9482.8	8702.4	7220.4
75°	600.8	639.4	834.7	2827.0	6383.3	9082.0	8958.4	8380.3	7732.3	5685.6
77.5°	190.6	207.1	329.2	1011.9	3516.1	6826.7	6695.9	5233.6	5182.4	2852.2
80°	90.6	105.5	185.1	406.3	1383.6	3713.0	3694.8	2374.2	2229.4	770.2
82.5°	39.4	46.5	102.4	217.3	619.0	1324.5	1351.3	808.0	668.6	292.2
85°	12.6	16.5	47.2	100.0	261.4	329.2	325.2	192.1	269.3	159.1
87.5°	0.0	0.0	15.7	22.8	26.8	18.9	21.3	16.5	74.8	44.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947054
 CATALOG NUMBER: GALN-SB2C-735-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1263.9	0°	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9	1263.9
1279.7	2.5°	1270.2	1257.6	1235.6	1215.1	1197.0	1178.9	1167.8	1152.1	1150.5	1150.5
1300.1	5°	1278.9	1258.4	1219.0	1177.3	1129.2	1083.6	1037.9	993.8	979.6	969.4
1333.2	7.5°	1304.1	1271.8	1209.6	1130.0	1038.7	938.7	868.6	793.0	763.9	748.1
1377.3	10°	1340.3	1296.2	1201.7	1062.3	914.3	778.0	678.0	596.1	564.6	551.2
1425.3	12.5°	1380.4	1326.1	1187.5	978.0	778.0	615.0	517.4	479.6	474.8	474.8
1482.8	15°	1428.5	1362.3	1163.1	878.8	635.5	486.7	452.0	453.6	458.3	461.5
1538.7	17.5°	1478.1	1400.9	1124.5	767.8	509.5	437.8	438.6	441.0	444.9	448.1
1599.4	20°	1531.6	1439.5	1073.3	649.7	437.1	423.7	426.0	428.4	431.5	433.1
1656.1	22.5°	1589.1	1475.7	1012.7	533.9	412.6	411.9	412.6	415.0	418.9	418.9
1722.2	25°	1650.6	1515.9	943.4	449.7	400.0	400.0	401.6	403.2	406.3	406.3
1786.0	27.5°	1713.6	1552.9	870.2	405.6	389.0	388.2	388.2	390.6	392.2	393.0
1849.0	30°	1782.9	1596.2	796.9	396.1	380.4	376.4	374.1	375.6	377.2	378.0
1915.1	32.5°	1853.7	1638.0	731.6	400.0	371.7	364.6	356.7	355.2	355.2	358.3
1983.7	35°	1932.5	1683.6	681.2	413.4	367.0	347.3	334.7	327.6	328.4	333.1
2065.6	37.5°	2027.0	1738.8	644.2	425.2	363.8	327.6	307.1	298.5	292.9	298.5
2178.2	40°	2150.6	1819.9	617.4	434.7	359.9	304.8	277.2	263.0	252.8	255.9
2353.0	42.5°	2332.5	1947.4	607.1	435.5	351.2	278.0	246.5	227.6	212.6	213.4
2616.0	45°	2587.7	2149.0	659.9	425.2	332.3	248.8	214.2	189.0	179.5	177.2
3009.0	47.5°	2937.3	2442.8	782.0	404.0	304.8	220.5	182.7	161.4	154.3	150.4
3524.8	50°	3405.8	2820.0	917.4	380.4	277.2	193.7	156.7	143.3	138.6	134.7
4136.6	52.5°	3949.2	3202.7	1028.4	356.7	249.6	170.1	140.2	132.3	128.4	125.2
4727.2	55°	4447.7	3466.5	1022.1	331.5	222.9	151.2	128.4	123.6	118.9	115.8
5235.9	57.5°	4757.9	3503.5	842.6	304.0	192.1	136.2	117.3	114.2	108.7	104.7
5676.1	60°	4900.5	3292.4	590.6	267.7	161.4	122.1	105.5	103.9	96.9	91.3
6092.7	62.5°	4926.5	2900.3	393.7	222.9	134.7	108.7	93.7	91.3	81.9	72.4
6431.3	65°	4820.9	2339.6	272.5	174.0	115.0	94.5	80.3	75.6	65.4	55.9
6511.7	67.5°	4487.1	1642.7	189.8	125.2	97.6	74.8	63.8	62.2	54.3	46.5
6102.2	70°	3875.2	936.3	126.8	93.7	77.2	51.2	50.4	52.0	44.1	37.8
4985.5	72.5°	2971.2	428.4	78.7	68.5	52.8	34.6	40.2	40.9	33.9	28.3
3110.5	75°	1749.0	183.5	49.6	44.1	26.8	22.8	29.1	29.9	22.8	18.1
1137.1	77.5°	595.3	69.3	31.5	26.0	13.4	12.6	18.9	18.9	12.6	7.1
228.4	80°	135.4	26.0	15.7	10.2	6.3	5.5	6.3	5.5	3.1	0.8
70.1	82.5°	38.6	10.2	6.3	3.9	2.4	2.4	0.8	0.0	0.0	0.0
24.4	85°	11.0	4.7	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
8.7	87.5°	4.7	0.8	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>
1263.9
1154.4
974.1
750.5
551.2
474.8
461.5
448.1
433.9
420.5
407.1
393.7
379.6
360.7
335.5
296.9
254.4
210.3
174.0
148.0
133.9
124.4
114.2
103.9
89.8
67.7
52.8
44.1
34.6
25.2
15.7
5.5
0.0
0.0
0.0
0.0
0.0

F REPORT)