

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: P947050

Luminaire Tested: **GALN-SB2C-735-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
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-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11446 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

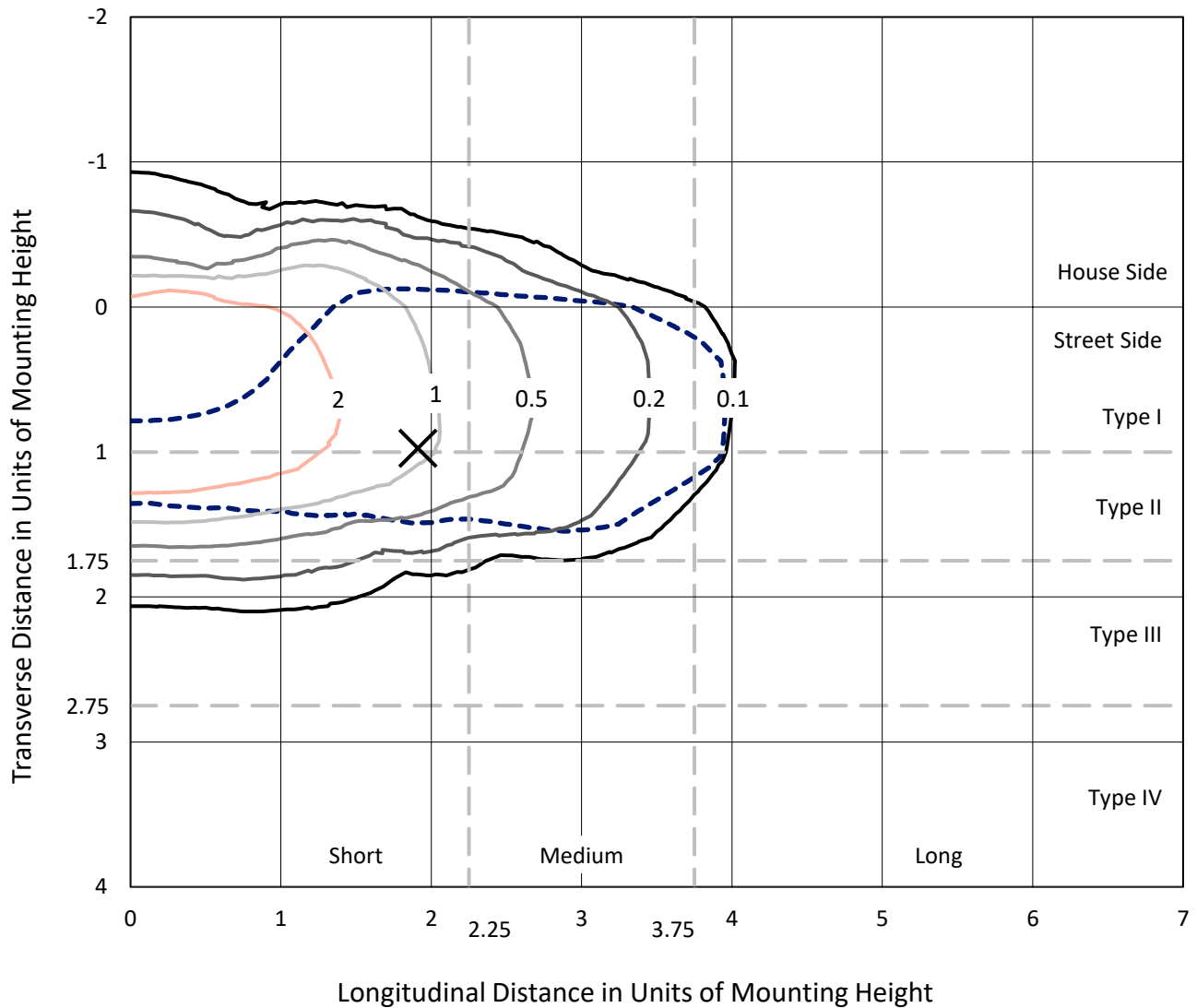
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947050
 CATALOG NUMBER: GALN-SB2C-735-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

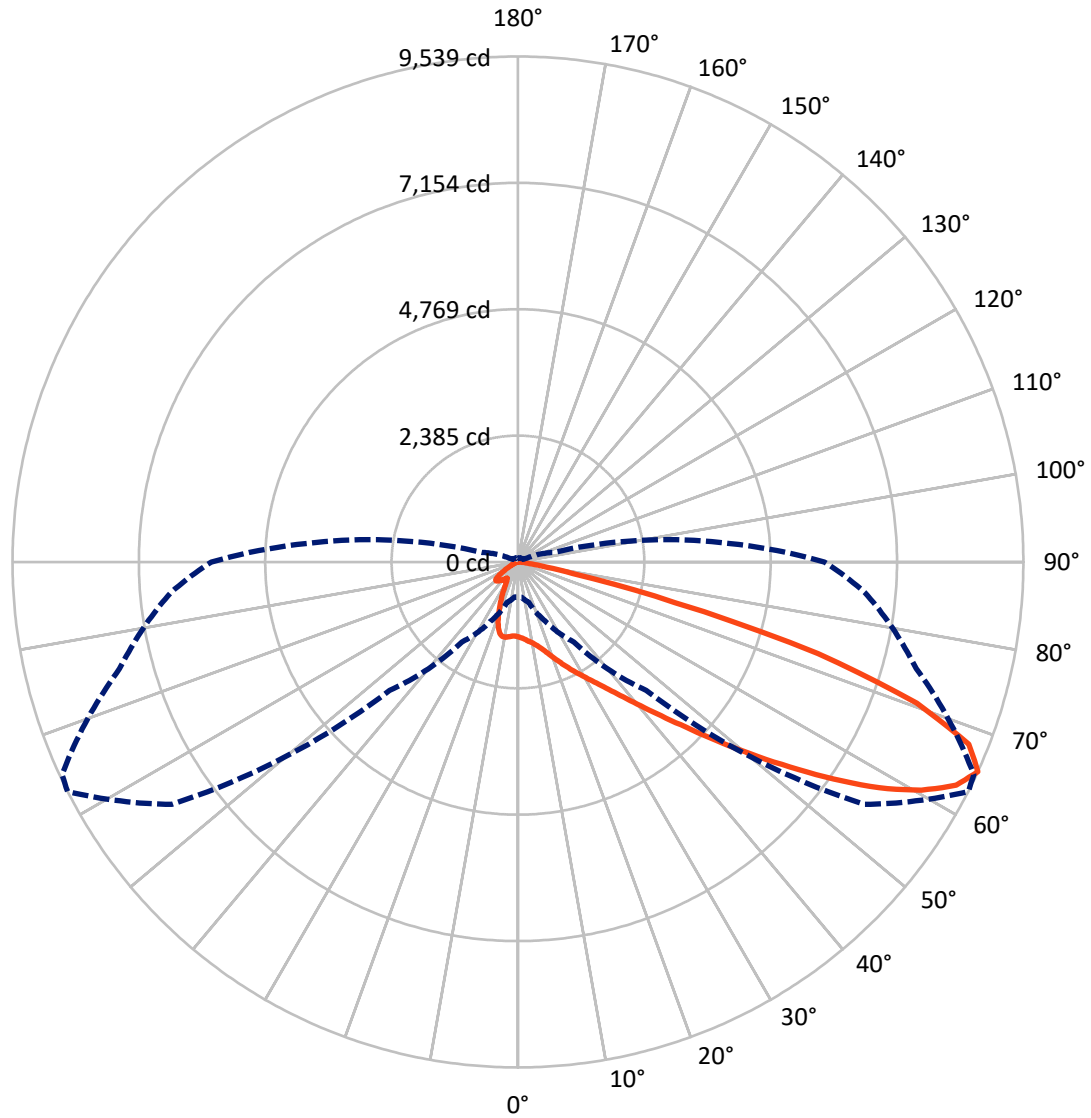
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - N/A

REPORT NUMBER: P947050
CATALOG NUMBER: GALN-SB2C-735-U-T2U-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P947050
 CATALOG NUMBER: GALN-SB2C-735-U-T2U-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1682.5	0.0	1682.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	9763.5	0.0	9763.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	11446.0	0.0	11446.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.1	1.2
10°-20°	369.3	3.2
20°-30°	643.0	5.6
30°-40°	1159.0	10.1
40°-50°	2298.7	20.1
50°-60°	3131.2	27.4
60°-70°	2499.3	21.8
70°-80°	1131.0	9.9
80°-90°	81.3	0.7
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°	11446.0	100.0
0°-180°	11446.0	100.0

Coefficient of Utilization



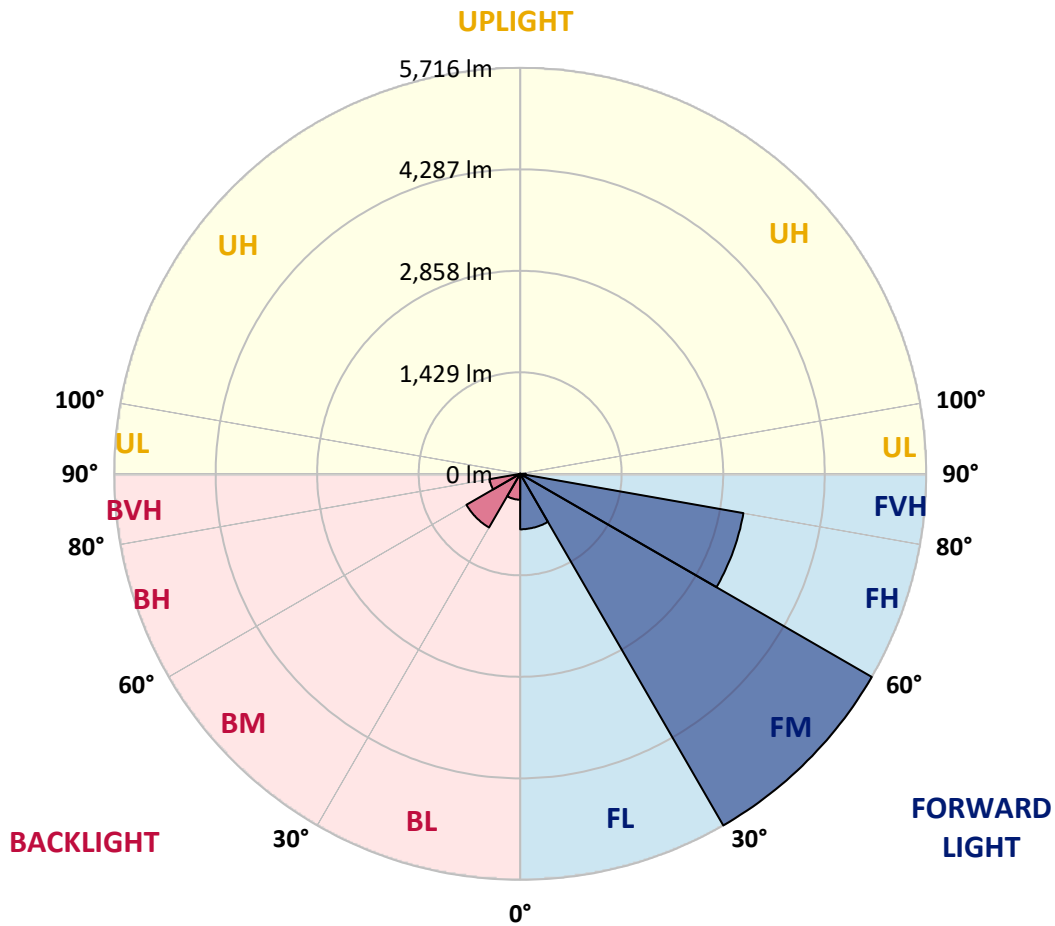
REPORT NUMBER: P947050
 CATALOG NUMBER: GALN-SB2C-735-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	781.3	6.8			
FM (30°-60°)	5715.8	49.9			
FH (60°-80°)	3191.1	27.9			G2/5000
FVH (80°-90°)	75.3	0.7			G1/100
BL (0°-30°)	364.1	3.2	B1/500		
BM (30°-60°)	873.1	7.6	B1/1000		
BH (60°-80°)	439.2	3.8	B1/500		G1/500
BVH (80°-90°)	6.0	0.1			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 Short



REPORT NUMBER: P947050

CATALOG NUMBER: GALN-SB2C-735-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7
2.5°	1445.7	1441.8	1447.3	1444.9	1443.4	1440.2	1438.6	1437.1	1433.9	1431.6
5°	1449.7	1447.3	1452.8	1457.5	1462.3	1467.0	1469.3	1472.5	1469.3	1463.0
7.5°	1416.6	1415.0	1426.8	1441.0	1462.3	1480.4	1500.1	1511.1	1511.9	1509.5
10°	1414.2	1410.3	1422.1	1439.4	1467.0	1499.3	1533.9	1557.5	1560.7	1570.9
12.5°	1451.2	1447.3	1463.8	1482.7	1511.1	1544.9	1587.5	1620.5	1625.3	1639.4
15°	1513.4	1507.9	1526.8	1551.2	1587.5	1626.0	1670.9	1700.9	1704.8	1722.1
17.5°	1585.9	1580.4	1602.4	1628.4	1667.8	1720.5	1772.5	1805.6	1810.3	1821.3
20°	1678.8	1671.7	1689.0	1712.7	1754.4	1817.4	1879.6	1926.8	1926.1	1926.1
22.5°	1786.7	1775.7	1790.6	1809.5	1848.9	1925.3	2008.0	2063.9	2063.9	2041.8
25°	1902.4	1891.4	1907.9	1925.3	1959.9	2046.5	2143.4	2212.7	2215.8	2178.0
27.5°	2047.3	2033.1	2045.7	2066.2	2086.7	2174.9	2289.9	2370.2	2371.7	2313.5
30°	2326.1	2285.9	2246.5	2224.5	2233.9	2321.3	2444.2	2533.2	2541.0	2460.7
32.5°	2836.3	2828.5	2689.9	2508.8	2414.3	2478.8	2616.6	2723.7	2728.5	2625.3
35°	3629.3	3619.8	3397.0	3052.1	2744.2	2689.9	2826.1	2952.9	2949.7	2833.2
37.5°	4575.8	4567.1	4273.4	3812.0	3313.5	3008.8	3096.2	3229.3	3248.9	3096.2
40°	5384.5	5352.2	5166.3	4721.4	4069.4	3537.9	3480.4	3568.6	3589.1	3408.0
42.5°	5997.1	5969.5	5875.0	5597.1	4984.4	4320.6	3933.2	3967.1	3989.9	3772.6
45°	6314.4	6308.1	6345.9	6319.9	5916.8	5281.3	4580.5	4439.5	4448.2	4176.5
47.5°	6359.3	6356.1	6528.6	6772.7	6718.4	6364.8	5411.2	5028.5	4997.8	4632.5
50°	6094.7	6088.4	6419.1	6876.6	7253.8	7275.1	6354.6	5692.3	5624.6	5104.1
52.5°	5249.8	5248.2	5791.6	6553.0	7442.0	8072.0	7286.9	6421.5	6308.1	5603.4
55°	4039.5	4068.7	4691.5	5591.6	7098.7	8455.4	8123.9	7231.0	7057.0	6105.7
57.5°	2861.5	2904.0	3519.8	4321.4	6034.1	8228.7	8690.1	8042.0	7854.6	6606.6
60°	1537.1	1574.9	2191.4	3148.2	4489.1	7383.0	8988.5	8746.0	8568.8	7082.2
62.5°	915.8	928.4	1183.5	2032.4	3036.3	5640.4	8861.8	9282.2	9136.6	7481.4
65°	657.5	659.9	788.2	1241.0	1843.4	3426.9	7972.7	9538.9	9494.1	7782.2
67.5°	553.6	552.0	605.5	824.4	1256.0	1716.6	6110.5	9175.9	9366.5	7972.7
70°	474.8	477.2	540.2	604.0	944.1	971.7	3037.9	7989.3	8395.6	8023.1
72.5°	353.6	361.4	419.7	550.4	712.6	668.5	1048.9	5923.8	6658.5	7559.3
75°	249.6	253.6	295.3	463.0	531.5	486.6	535.5	3062.3	4004.1	5795.5
77.5°	192.1	199.2	223.6	323.6	523.6	341.7	327.6	1059.9	1628.4	3500.9
80°	103.9	116.5	161.4	233.9	367.7	241.7	162.2	422.1	552.0	1637.1
82.5°	53.5	59.8	112.6	168.5	209.5	211.0	80.3	175.6	227.6	505.5
85°	21.3	26.0	75.6	92.9	107.9	103.9	36.2	70.9	81.9	140.2
87.5°	4.7	7.9	27.6	21.3	20.5	22.0	8.7	16.5	15.7	16.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947050
 CATALOG NUMBER: GALN-SB2C-735-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1412.7	0°	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7	1412.7
1422.1	2.5°	1421.3	1418.2	1409.5	1400.1	1389.0	1382.7	1378.8	1378.0	1372.5	1368.6
1453.6	5°	1444.9	1441.8	1425.3	1405.6	1384.3	1367.8	1352.0	1337.8	1317.4	1313.4
1499.3	7.5°	1492.2	1483.5	1456.7	1430.0	1389.8	1341.8	1283.5	1216.6	1156.7	1138.6
1559.9	10°	1550.5	1538.6	1504.8	1457.5	1368.6	1237.8	1096.9	966.2	862.2	833.1
1631.6	12.5°	1616.6	1606.4	1561.5	1474.1	1279.6	1042.6	826.8	664.6	563.8	538.6
1707.9	15°	1695.3	1680.4	1618.2	1448.9	1120.5	792.2	567.7	471.7	435.4	430.7
1795.3	17.5°	1778.8	1754.4	1668.6	1358.3	906.3	563.0	438.6	411.0	395.3	390.6
1883.5	20°	1855.2	1823.7	1698.5	1221.3	677.2	438.6	392.9	374.8	360.6	355.1
1971.7	22.5°	1931.6	1886.7	1698.5	1034.7	507.9	389.0	360.6	344.1	327.6	320.5
2066.2	25°	2011.1	1951.3	1668.6	826.8	408.7	356.7	329.9	311.8	297.6	289.0
2156.0	27.5°	2088.3	2005.6	1600.1	629.9	363.8	328.4	301.6	284.3	270.9	264.6
2253.6	30°	2161.5	2059.1	1504.0	478.0	334.7	300.8	275.6	260.6	247.3	241.0
2380.4	32.5°	2260.7	2126.9	1401.6	392.1	309.5	274.8	252.0	237.8	226.0	221.3
2545.0	35°	2398.5	2226.9	1313.4	385.1	288.2	253.6	230.7	217.3	205.5	201.6
2757.6	37.5°	2593.8	2388.3	1267.0	432.3	270.9	234.7	213.4	199.2	188.2	185.0
3027.7	40°	2834.8	2607.2	1292.2	479.5	259.1	218.1	197.6	183.5	174.0	170.1
3337.9	42.5°	3120.6	2877.3	1431.6	515.8	251.2	203.9	182.7	166.9	160.6	159.1
3689.9	45°	3449.0	3174.1	1644.9	554.4	238.6	190.6	167.7	155.9	151.2	150.4
4072.6	47.5°	3822.2	3500.1	1892.2	602.4	226.0	178.0	155.9	148.0	144.1	142.5
4471.8	50°	4192.3	3828.5	2146.5	629.2	215.8	166.1	146.5	140.2	137.0	136.2
4893.9	52.5°	4579.7	4166.3	2352.1	604.0	207.1	156.7	138.6	133.9	130.7	129.9
5282.9	55°	4949.0	4439.5	2387.5	512.6	189.8	147.2	129.9	127.6	123.6	123.6
5677.4	57.5°	5267.1	4576.6	2137.1	376.4	172.4	133.1	121.3	118.9	115.8	115.0
6033.3	60°	5559.3	4537.2	1649.7	253.6	153.5	118.9	110.2	108.7	105.5	101.6
6342.8	62.5°	5723.8	4363.9	1128.4	165.4	134.7	103.9	97.6	96.9	89.8	81.9
6571.9	65°	5786.0	4008.0	704.0	120.5	112.6	89.0	84.3	82.7	72.4	63.8
6701.8	67.5°	5731.7	3422.2	355.1	95.3	89.0	74.0	69.3	69.3	62.2	54.3
6694.0	70°	5514.4	2565.5	149.6	76.4	68.5	56.7	56.7	59.8	52.8	44.1
6346.7	72.5°	5042.7	1726.1	79.5	58.3	51.2	40.2	46.5	48.8	41.7	33.1
5194.7	75°	4008.8	1052.8	55.1	43.3	32.3	28.3	35.4	37.0	28.3	22.0
3561.6	77.5°	2741.8	604.7	37.0	27.6	20.5	16.5	24.4	22.8	15.0	10.2
1373.3	80°	1204.0	252.0	21.3	12.6	7.9	6.3	8.7	6.3	4.7	3.1
188.2	82.5°	141.0	59.1	7.9	4.7	3.1	1.6	0.8	0.0	0.0	0.0
57.5	85°	29.1	7.1	3.9	1.6	0.8	0.0	0.0	0.0	0.0	0.0
10.2	87.5°	5.5	1.6	0.8	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

180°
1412.7
1372.5
1311.9
1130.0
822.1
531.5
426.0
388.2
352.0
316.5
285.8
264.6
241.7
221.3
201.6
184.3
169.3
159.1
149.6
142.5
136.2
129.9
122.8
114.2
100.8
80.3
63.0
53.5
43.3
33.1
21.3
11.0
3.1
0.0
0.0
0.0
0.0

F REPORT)