

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: P939764

Luminaire Tested: **GALN-SB2C-735-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
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-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10937 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

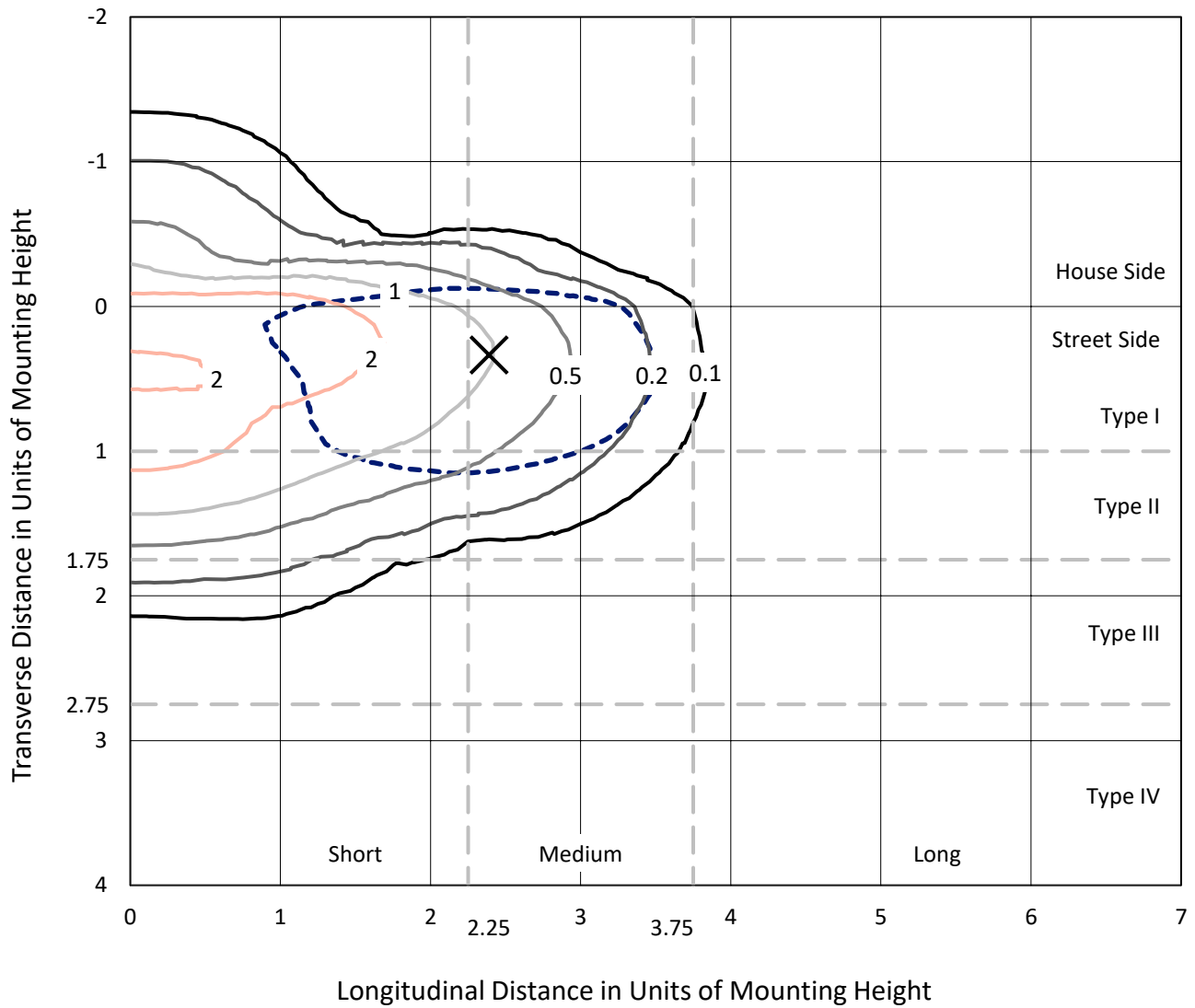
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939764
 CATALOG NUMBER: GALN-SB2C-735-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

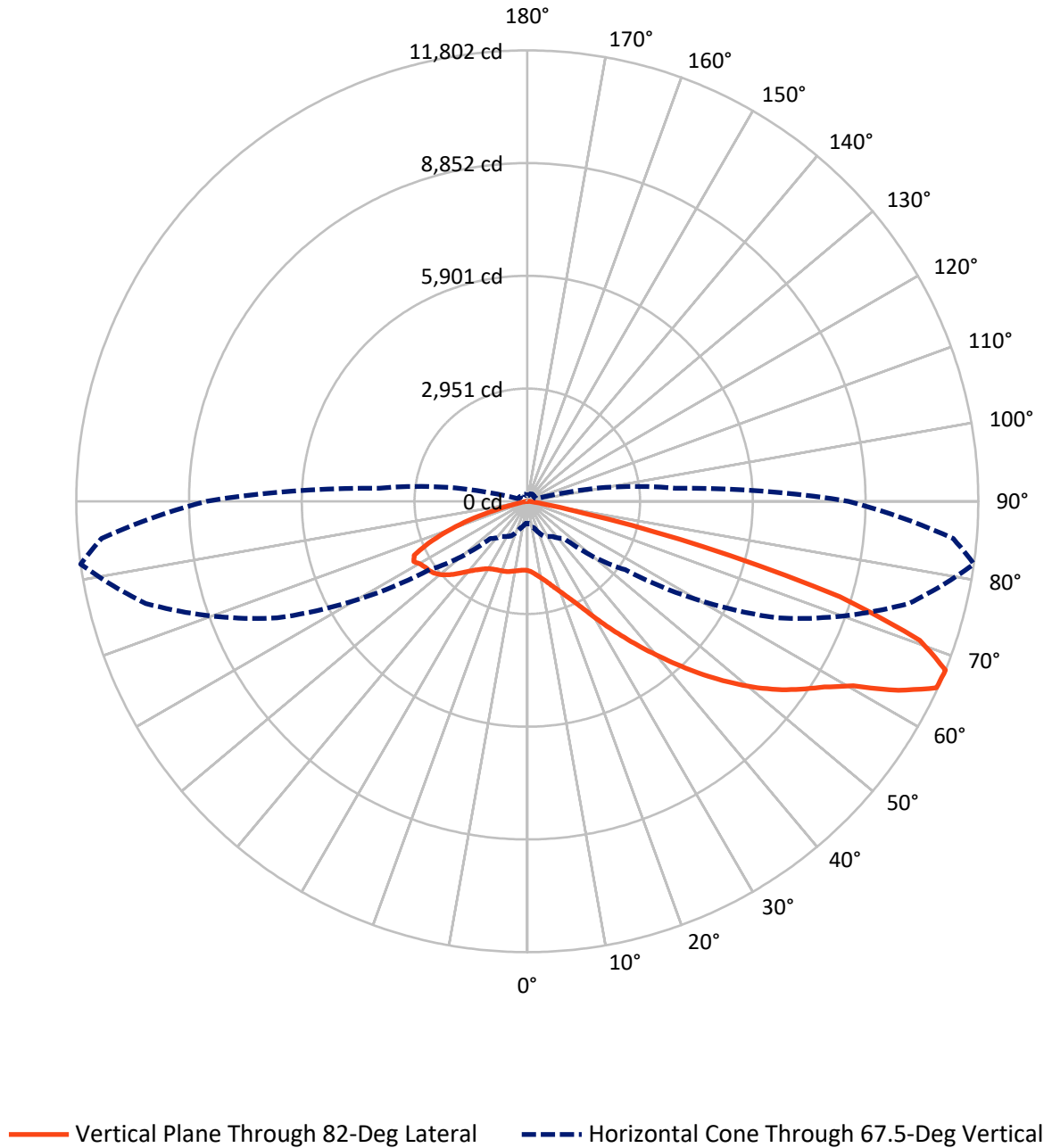
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P939764
CATALOG NUMBER: GALN-SB2C-735-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P939764

CATALOG NUMBER: GALN-SB2C-735-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1981.1	0.0	1981.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	8955.9	0.0	8955.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	10937.0	0.0	10937.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.4	1.5
10°-20°	419.5	3.8
20°-30°	671.9	6.1
30°-40°	1188.1	10.9
40°-50°	2081.6	19.0
50°-60°	2776.3	25.4
60°-70°	2584.6	23.6
70°-80°	992.0	9.1
80°-90°	61.6	0.6
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°	10937.0	100.0
0°-180°	10937.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939764

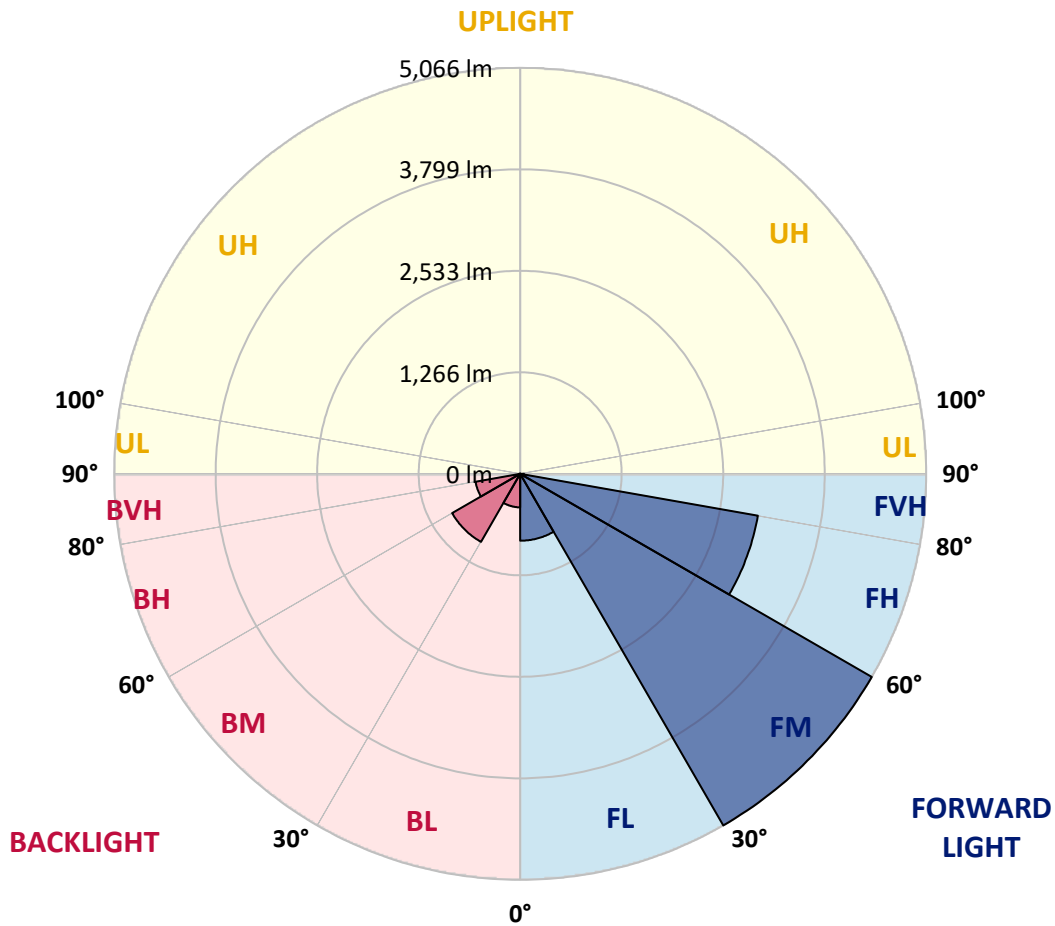
CATALOG NUMBER: GALN-SB2C-735-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	834.4	7.6			
FM (30°-60°)	5065.6	46.3			
FH (60°-80°)	3011.1	27.5			G2/5000
FVH (80°-90°)	44.8	0.4			G1/100
BL (0°-30°)	418.4	3.8	B1/500		
BM (30°-60°)	980.5	9.0	B1/1000		
BH (60°-80°)	565.4	5.2	B2/1000		G2/1000
BVH (80°-90°)	16.8	0.2			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: P939764

CATALOG NUMBER: GALN-SB2C-735-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9
2.5°	1915.0	1926.1	1919.8	1916.6	1911.1	1903.2	1896.9	1877.2	1856.8	1843.4
5°	1953.6	1964.7	1963.9	1967.0	1971.0	1973.3	1971.7	1949.7	1920.6	1897.7
7.5°	1920.6	1933.2	1943.4	1959.1	1986.7	2015.8	2030.0	2025.3	1995.4	1963.9
10°	1826.9	1840.2	1864.6	1901.7	1959.9	2022.9	2075.7	2100.1	2081.2	2046.5
12.5°	1655.2	1668.6	1716.6	1796.9	1894.6	2004.0	2104.8	2170.2	2174.9	2140.3
15°	1462.3	1475.7	1526.8	1627.6	1776.5	1952.1	2120.6	2244.2	2285.9	2256.0
17.5°	1342.6	1354.4	1393.0	1474.1	1629.2	1848.1	2115.1	2322.9	2418.2	2394.6
20°	1306.4	1316.6	1334.7	1391.4	1520.5	1740.2	2078.8	2397.0	2560.7	2547.4
22.5°	1344.9	1354.4	1359.9	1385.1	1466.2	1669.4	2033.2	2472.5	2726.1	2727.7
25°	1433.9	1443.4	1437.1	1452.8	1488.3	1647.3	2015.8	2561.5	2934.0	2951.3
27.5°	1580.4	1581.2	1566.2	1565.4	1570.9	1680.4	2033.9	2656.8	3196.2	3228.5
30°	1874.1	1862.3	1804.8	1742.6	1714.2	1779.6	2084.3	2769.4	3505.7	3563.1
32.5°	2326.9	2309.6	2204.0	2055.2	1905.6	1939.5	2174.9	2897.8	3842.7	3946.6
35°	2818.2	2813.5	2703.3	2482.0	2220.6	2167.0	2322.1	3066.3	4210.4	4375.8
37.5°	3274.9	3272.6	3209.6	2948.9	2630.8	2484.4	2558.4	3286.8	4604.1	4843.5
40°	3692.3	3699.4	3636.4	3403.3	3082.8	2891.5	2879.7	3559.2	5042.0	5353.0
42.5°	4052.9	4060.8	3997.0	3824.6	3529.3	3341.9	3274.2	3893.1	5469.5	5900.3
45°	4297.8	4346.6	4337.2	4199.4	3987.6	3793.1	3748.2	4312.0	5957.0	6480.6
47.5°	4367.1	4412.0	4482.9	4501.8	4372.6	4181.3	4234.8	4816.7	6449.9	7061.7
50°	4196.2	4238.0	4385.2	4581.3	4671.1	4612.0	4708.1	5357.7	6954.6	7641.3
52.5°	3859.2	3901.7	4087.6	4397.8	4764.0	4949.8	5182.9	5890.8	7443.6	8190.1
55°	3371.8	3416.7	3655.3	4006.5	4586.8	5089.2	5579.0	6423.1	7891.7	8683.8
57.5°	2708.8	2741.9	2989.9	3481.3	4141.1	4950.6	5871.1	7004.2	8313.8	9168.9
60°	1765.4	1794.6	2082.8	2630.8	3402.5	4487.6	5929.4	7652.3	8874.4	9799.6
62.5°	1174.1	1193.8	1364.6	1767.0	2396.2	3598.6	5588.4	8169.7	9696.5	10897.3
65°	805.5	825.2	996.1	1276.4	1548.1	2380.4	4608.1	8101.1	10441.4	11769.0
67.5°	574.8	591.4	736.3	1000.8	1120.5	1382.7	3123.8	7225.5	10334.3	11802.1
70°	411.8	421.3	541.0	779.6	890.6	830.7	1737.1	5526.2	9048.4	10898.1
72.5°	288.2	291.4	375.6	593.7	717.4	606.3	826.8	3684.4	6843.6	8553.9
75°	195.3	199.2	252.8	435.5	575.6	463.0	437.8	1975.7	4017.5	4734.9
77.5°	119.7	121.3	163.0	297.7	430.7	352.8	281.9	837.0	1554.4	1526.1
80°	67.7	67.7	103.9	185.0	293.7	227.6	197.6	355.9	492.1	432.3
82.5°	37.8	38.6	75.6	115.0	194.5	134.7	108.7	164.6	212.6	188.2
85°	15.7	17.3	46.5	54.3	92.9	66.9	44.1	69.3	78.7	70.1
87.5°	1.6	2.4	14.2	10.2	11.0	13.4	6.3	13.4	11.0	11.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939764
 CATALOG NUMBER: GALN-SB2C-735-U-T2-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1811.9	0°	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9	1811.9
1838.7	2.5°	1823.7	1811.9	1782.0	1747.3	1701.6	1679.6	1649.7	1629.2	1611.9	1613.5
1884.3	5°	1859.1	1829.2	1762.3	1678.8	1574.9	1500.9	1422.1	1367.8	1323.7	1314.2
1947.3	7.5°	1908.0	1860.7	1743.4	1593.0	1417.4	1284.3	1165.4	1089.0	1034.7	1017.4
2023.7	10°	1971.0	1902.4	1719.0	1485.1	1232.3	1063.0	935.5	875.6	838.6	826.0
2113.5	12.5°	2044.2	1950.5	1686.7	1353.6	1041.8	878.8	797.7	767.8	755.9	752.0
2223.7	15°	2136.3	2010.3	1637.9	1197.7	880.4	766.2	731.5	727.6	729.2	727.6
2356.0	17.5°	2245.8	2075.7	1558.3	1037.1	771.7	708.7	696.1	699.2	703.2	702.4
2504.0	20°	2365.5	2140.3	1456.8	894.5	697.7	667.7	660.7	663.8	667.0	665.4
2674.9	22.5°	2501.7	2209.5	1344.2	783.5	648.1	629.9	622.1	622.9	622.9	619.7
2891.5	25°	2664.7	2285.9	1226.0	704.8	610.3	596.1	586.6	583.5	578.8	569.3
3154.5	27.5°	2859.2	2367.0	1112.6	649.6	580.3	567.0	555.9	548.1	536.2	520.5
3470.2	30°	3078.1	2465.5	1016.6	615.0	556.7	543.3	530.7	518.9	501.6	481.9
3833.2	32.5°	3335.6	2571.0	946.5	592.2	535.5	521.3	506.3	492.1	473.2	453.6
4241.1	35°	3642.7	2698.5	905.6	576.4	518.9	500.0	483.5	467.7	453.6	436.2
4684.5	37.5°	3975.8	2834.0	893.0	568.5	507.9	478.8	459.9	448.8	447.3	437.0
5164.0	40°	4340.3	2994.6	902.4	563.8	496.1	458.3	437.8	435.5	439.4	421.3
5676.6	42.5°	4726.2	3185.2	918.2	558.3	479.5	437.8	418.1	418.1	415.0	389.8
6218.4	45°	5143.5	3404.9	933.9	544.9	459.9	417.3	402.4	396.9	383.5	359.1
6763.3	47.5°	5564.0	3628.5	945.7	520.5	436.2	400.0	386.6	374.0	354.3	332.3
7298.0	50°	5963.3	3829.3	933.1	484.3	409.5	383.5	369.3	352.0	330.7	315.8
7804.3	52.5°	6320.0	4003.3	879.6	441.8	381.1	366.2	353.6	335.4	318.1	302.4
8261.0	55°	6630.2	4144.3	785.1	401.6	355.9	351.2	338.6	315.8	292.1	278.8
8713.8	57.5°	6927.9	4251.4	667.0	368.5	333.1	334.7	315.8	295.3	273.2	259.1
9324.0	60°	7323.9	4394.7	547.3	337.8	308.7	313.4	292.9	278.0	250.4	232.3
10370.5	62.5°	7957.0	4617.5	434.7	300.0	280.3	281.9	273.2	255.1	222.1	200.8
11146.2	65°	8459.4	4535.6	342.5	259.1	248.0	250.4	250.4	230.7	195.3	170.9
11187.9	67.5°	8402.7	3883.6	273.2	218.9	217.3	218.9	224.4	207.9	173.2	153.6
10335.9	70°	7740.5	3089.1	218.9	181.9	189.0	185.0	200.8	189.8	155.9	136.2
8013.0	72.5°	6316.0	2225.3	166.9	150.4	144.9	151.2	181.1	170.9	129.9	107.9
4244.3	75°	3690.7	1187.5	124.4	118.9	104.7	126.0	160.6	145.7	99.2	79.5
1300.8	77.5°	1201.6	414.2	91.3	87.4	78.0	101.6	137.0	122.8	81.1	63.0
381.1	80°	322.1	125.2	62.2	57.5	50.4	75.6	108.7	97.6	58.3	40.9
163.8	82.5°	129.1	52.8	36.2	32.3	27.6	52.0	85.8	78.7	43.3	26.0
51.2	85°	41.7	17.3	13.4	10.2	12.6	32.3	51.2	53.5	30.7	13.4
7.9	87.5°	5.5	2.4	2.4	3.1	2.4	5.5	15.7	15.0	8.7	1.6
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>
1811.9
1597.7
1293.0
1000.0
816.6
749.6
726.8
700.8
664.6
618.1
567.7
518.9
480.3
454.4
434.7
436.2
422.1
389.8
358.3
331.5
313.4
300.8
277.2
257.5
229.9
199.2
168.5
150.4
133.9
105.5
77.2
60.6
40.2
26.0
10.2
0.0
0.0

F REPORT)