

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: P950179

Luminaire Tested: **GALN-SB4C-950-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950179
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-SB4C-950-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 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: 15957 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

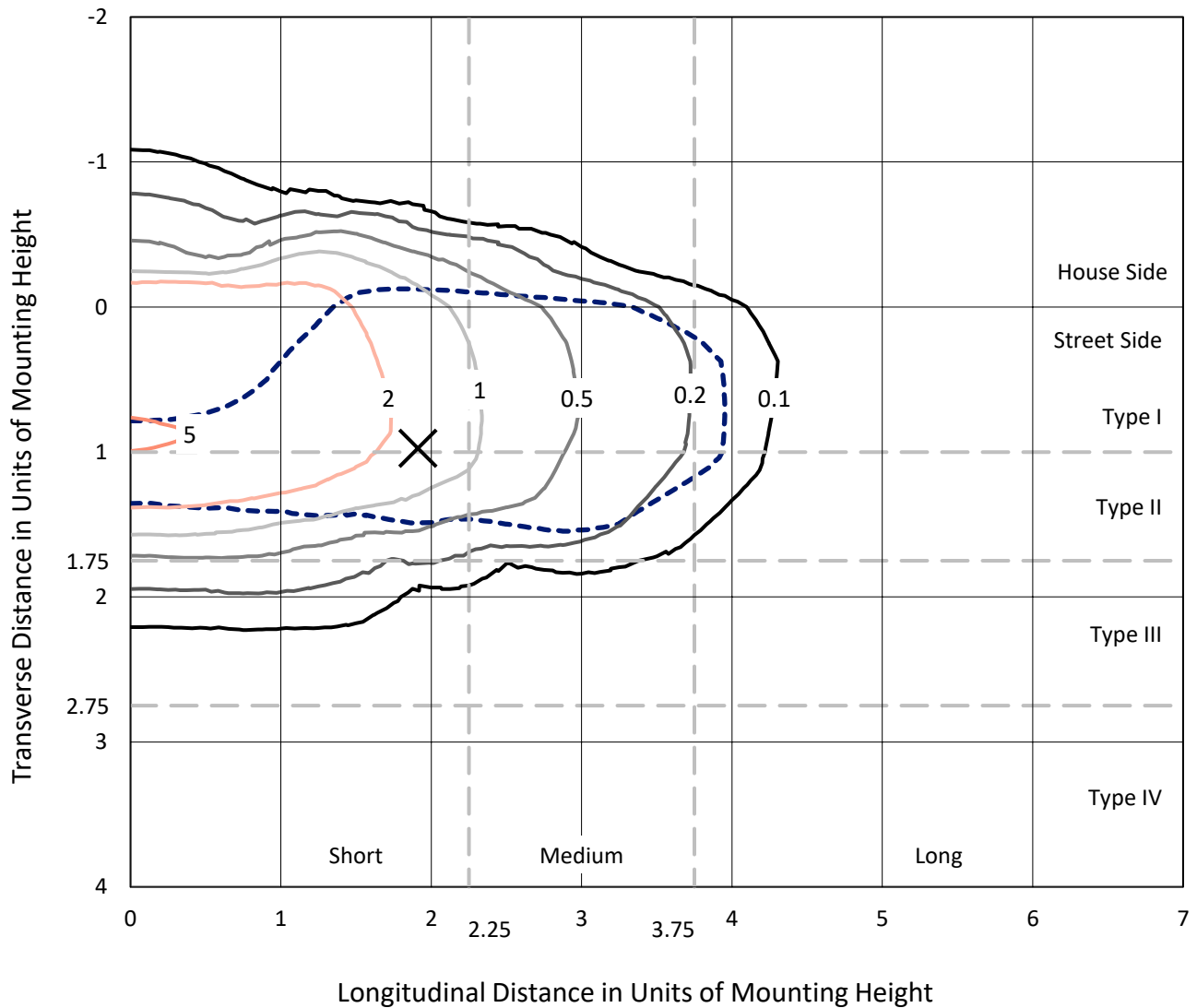
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950179
 CATALOG NUMBER: GALN-SB4C-950-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

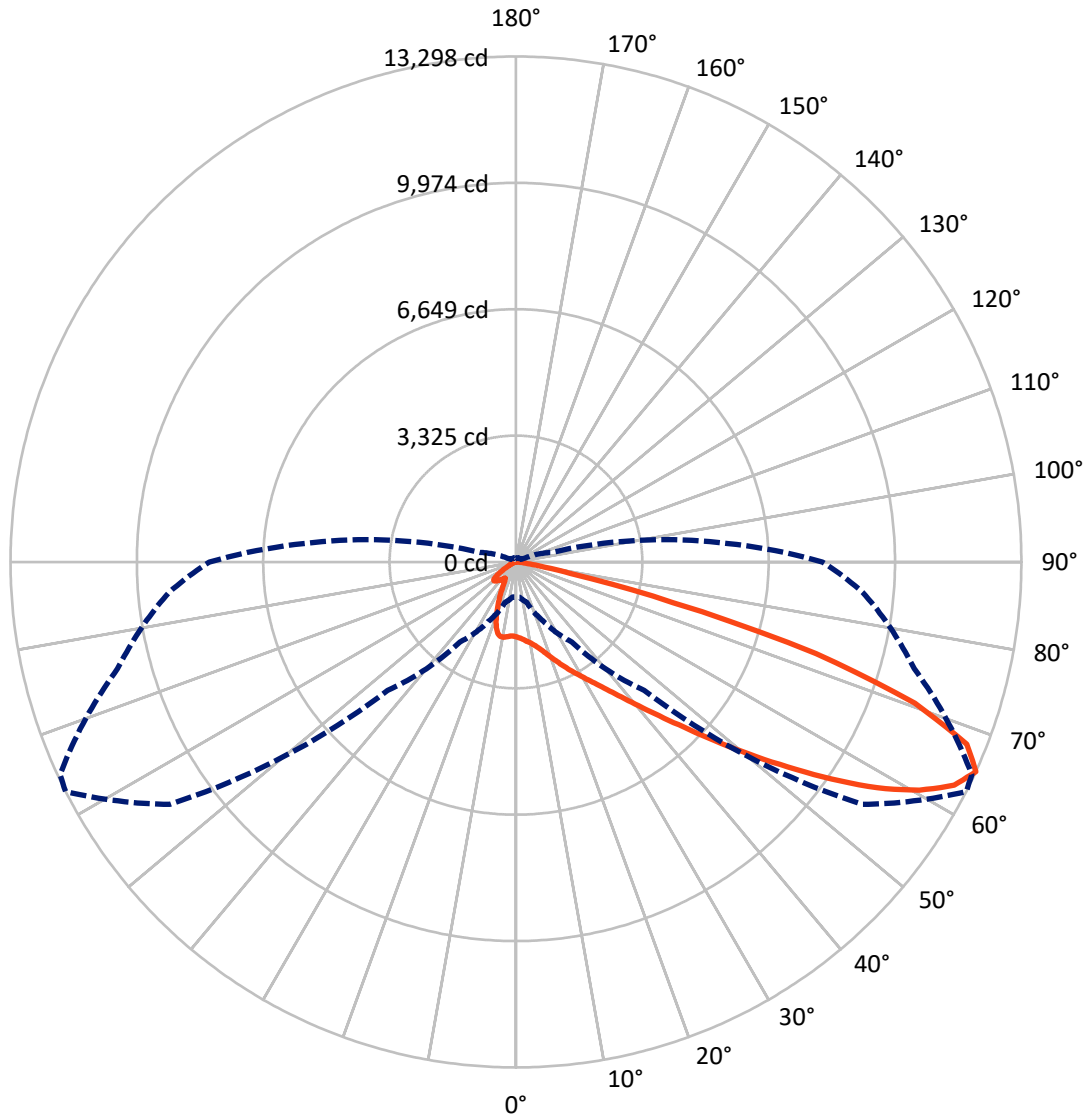
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

REPORT NUMBER: P950179
CATALOG NUMBER: GALN-SB4C-950-U-T2U-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P950179
 CATALOG NUMBER: GALN-SB4C-950-U-T2U-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2345.6	0.0	2345.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	13611.4	0.0	13611.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	15957.0	0.0	15957.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.6	1.2
10°-20°	514.8	3.2
20°-30°	896.5	5.6
30°-40°	1615.8	10.1
40°-50°	3204.7	20.1
50°-60°	4365.3	27.4
60°-70°	3484.3	21.8
70°-80°	1576.7	9.9
80°-90°	113.3	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°	15957.0	100.0
0°-180°	15957.0	100.0

Coefficient of Utilization



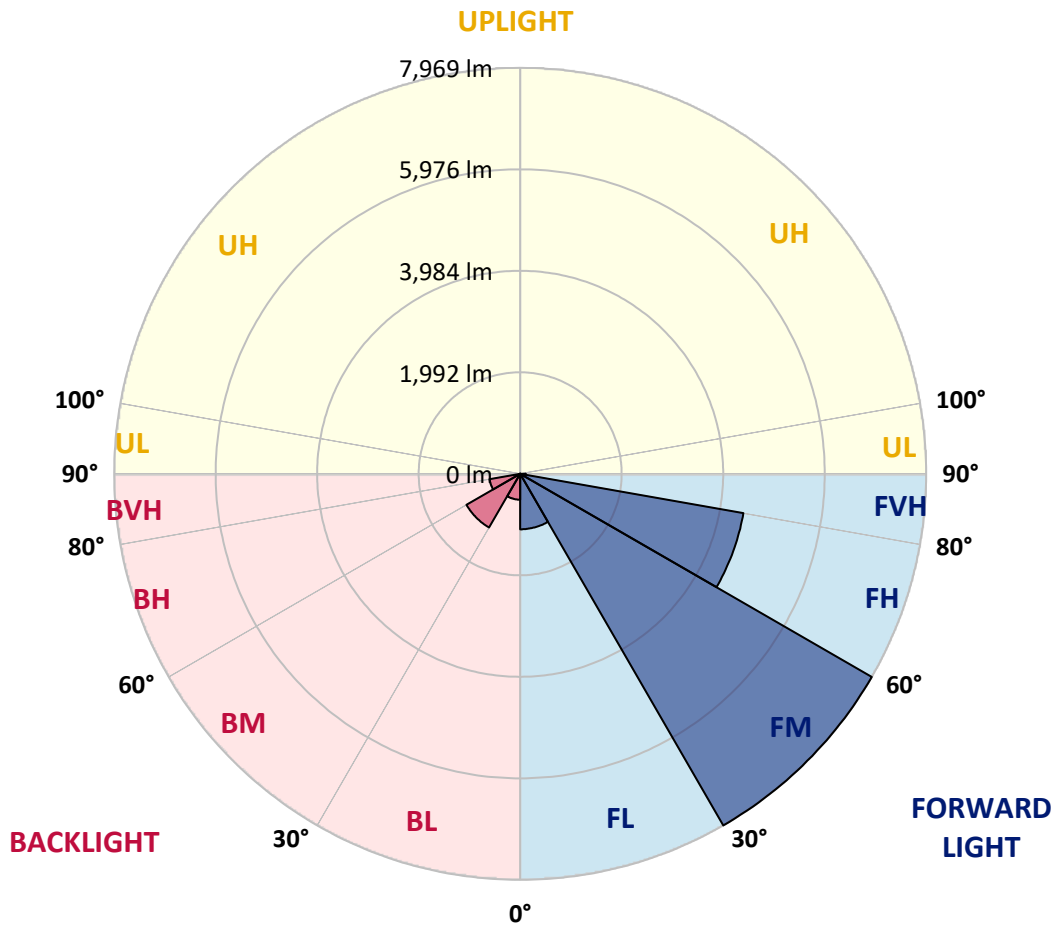
REPORT NUMBER: P950179
 CATALOG NUMBER: GALN-SB4C-950-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1089.3	6.8			
FM (30°-60°)	7968.5	49.9			
FH (60°-80°)	4448.7	27.9			G2/5000
FVH (80°-90°)	104.9	0.7			G2/225
BL (0°-30°)	507.6	3.2	B2/1000		
BM (30°-60°)	1217.2	7.6	B2/2500		
BH (60°-80°)	612.3	3.8	B2/1000		G2/1000
BVH (80°-90°)	8.4	0.1			G0/10
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 Short



REPORT NUMBER: P950179

CATALOG NUMBER: GALN-SB4C-950-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°
0°	1969.4	1969.4	1969.4	1969.4	1969.4	1969.4	1969.4	1969.4	1969.4	1969.4
2.5°	2015.5	2010.0	2017.7	2014.4	2012.2	2007.8	2005.6	2003.4	1999.0	1995.7
5°	2021.0	2017.7	2025.4	2032.0	2038.6	2045.1	2048.4	2052.8	2048.4	2039.7
7.5°	1974.9	1972.7	1989.2	2008.9	2038.6	2063.8	2091.2	2106.6	2107.7	2104.4
10°	1971.6	1966.1	1982.6	2006.7	2045.1	2090.1	2138.5	2171.4	2175.8	2190.0
12.5°	2023.2	2017.7	2040.8	2067.1	2106.6	2153.8	2213.1	2259.2	2265.8	2285.6
15°	2109.9	2102.2	2128.6	2162.6	2213.1	2266.9	2329.5	2371.2	2376.7	2400.8
17.5°	2210.9	2203.2	2234.0	2270.2	2325.1	2398.6	2471.1	2517.2	2523.8	2539.1
20°	2340.4	2330.6	2354.7	2387.6	2445.8	2533.6	2620.4	2686.2	2685.1	2685.1
22.5°	2490.8	2475.5	2496.3	2522.7	2577.6	2684.0	2799.3	2877.2	2877.2	2846.5
25°	2652.2	2636.8	2659.9	2684.0	2732.3	2853.1	2988.1	3084.7	3089.1	3036.4
27.5°	2854.2	2834.4	2852.0	2880.5	2909.1	3032.0	3192.3	3304.3	3306.5	3225.2
30°	3242.8	3186.8	3131.9	3101.2	3114.4	3236.2	3407.5	3531.5	3542.5	3430.5
32.5°	3954.2	3943.2	3750.0	3497.5	3365.8	3455.8	3647.9	3797.2	3803.8	3660.0
35°	5059.6	5046.4	4735.8	4254.9	3825.7	3750.0	3939.9	4116.6	4112.2	3949.8
37.5°	6379.1	6367.1	5957.6	5314.3	4619.4	4194.6	4316.4	4501.9	4529.4	4316.4
40°	7506.5	7461.5	7202.5	6582.2	5673.3	4932.3	4852.1	4975.1	5003.6	4751.1
42.5°	8360.6	8322.2	8190.4	7802.9	6948.9	6023.5	5483.3	5530.6	5562.4	5259.4
45°	8803.0	8794.2	8846.9	8810.7	8248.6	7362.7	6385.7	6189.2	6201.3	5822.6
47.5°	8865.6	8861.2	9101.6	9441.9	9366.2	8873.3	7543.9	7010.3	6967.5	6458.2
50°	8496.7	8487.9	8949.0	9586.8	10112.6	10142.3	8859.0	7935.8	7841.4	7115.7
52.5°	7318.8	7316.6	8074.1	9135.6	10375.0	11253.2	10158.7	8952.3	8794.2	7811.7
55°	5631.5	5672.2	6540.5	7795.2	9896.4	11787.8	11325.7	10080.8	9838.2	8512.1
57.5°	3989.3	4048.6	4907.0	6024.5	8412.2	11471.7	12115.0	11211.5	10950.2	9210.3
60°	2142.8	2195.5	3055.1	4388.9	6258.4	10292.7	12531.0	12192.9	11945.9	9873.3
62.5°	1276.7	1294.3	1649.9	2833.3	4233.0	7863.3	12354.3	12940.5	12737.4	10429.9
65°	916.6	919.9	1098.9	1730.1	2569.9	4777.5	11114.9	13298.4	13235.8	10849.2
67.5°	771.7	769.5	844.2	1149.4	1750.9	2393.1	8518.7	12792.3	13057.9	11114.9
70°	662.0	665.2	753.1	842.0	1316.2	1354.6	4235.2	11138.0	11704.4	11185.2
72.5°	492.9	503.9	585.1	767.3	993.5	932.0	1462.2	8258.5	9282.7	10538.6
75°	348.0	353.5	411.7	645.5	741.0	678.4	746.5	4269.2	5582.1	8079.6
77.5°	267.9	277.7	311.8	451.2	730.0	476.4	456.7	1477.6	2270.2	4880.7
80°	144.9	162.5	225.0	326.0	512.7	337.0	226.1	588.4	769.5	2282.3
82.5°	74.6	83.4	157.0	234.9	292.0	294.2	112.0	244.8	317.3	704.8
85°	29.6	36.2	105.4	129.5	150.4	144.9	50.5	98.8	114.2	195.4
87.5°	6.6	11.0	38.4	29.6	28.5	30.7	12.1	23.1	22.0	23.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950179
 CATALOG NUMBER: GALN-SB4C-950-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1969.4	0°	1969.4	1969.4	1969.4	1969.4	1969.4	1969.4	1969.4	1969.4	1969.4	1969.4
1982.6	2.5°	1981.5	1977.1	1965.0	1951.8	1936.5	1927.7	1922.2	1921.1	1913.4	1907.9
2026.5	5°	2014.4	2010.0	1987.0	1959.5	1929.9	1906.8	1884.9	1865.1	1836.6	1831.1
2090.1	7.5°	2080.3	2068.2	2030.9	1993.5	1937.6	1870.6	1789.4	1696.1	1612.6	1587.4
2174.7	10°	2161.5	2145.0	2097.8	2032.0	1907.9	1725.7	1529.2	1347.0	1202.1	1161.4
2274.6	12.5°	2253.7	2239.4	2176.9	2055.0	1783.9	1453.4	1152.7	926.5	786.0	750.9
2381.1	15°	2363.5	2342.6	2255.9	2019.9	1562.1	1104.4	791.5	657.6	607.1	600.5
2502.9	17.5°	2479.9	2445.8	2326.2	1893.6	1263.5	784.9	611.5	573.0	551.1	544.5
2625.9	20°	2586.3	2542.4	2367.9	1702.6	944.1	611.5	547.8	522.5	502.8	495.1
2748.8	22.5°	2692.8	2630.3	2367.9	1442.5	708.1	542.3	502.8	479.7	456.7	446.8
2880.5	25°	2803.7	2720.3	2326.2	1152.7	569.7	497.3	460.0	434.7	415.0	402.9
3005.7	27.5°	2911.3	2796.0	2230.7	878.2	507.2	457.8	420.4	396.3	377.6	368.8
3141.8	30°	3013.4	2870.7	2096.7	666.3	466.6	419.3	384.2	363.4	344.7	335.9
3318.6	32.5°	3151.7	2965.1	1954.0	546.7	431.4	383.1	351.3	331.5	315.1	308.5
3548.0	35°	3343.8	3104.5	1831.1	536.8	401.8	353.5	321.6	303.0	286.5	281.0
3844.4	37.5°	3616.0	3329.5	1766.3	602.7	377.6	327.1	297.5	277.7	262.4	258.0
4220.9	40°	3952.0	3634.7	1801.4	668.5	361.2	304.1	275.5	255.8	242.6	237.1
4653.4	42.5°	4350.5	4011.2	1995.7	719.0	350.2	284.3	254.7	232.7	223.9	221.7
5144.1	45°	4808.2	4425.1	2293.2	772.8	332.6	265.7	233.8	217.4	210.8	209.7
5677.7	47.5°	5328.6	4879.6	2637.9	839.8	315.1	248.1	217.4	206.4	200.9	198.7
6234.2	50°	5844.5	5337.3	2992.5	877.1	300.8	231.6	204.2	195.4	191.0	189.9
6822.6	52.5°	6384.6	5808.3	3279.0	842.0	288.7	218.5	193.2	186.6	182.2	181.1
7364.9	55°	6899.5	6189.2	3328.4	714.6	264.6	205.3	181.1	177.8	172.3	172.3
7914.9	57.5°	7343.0	6380.2	2979.3	524.7	240.4	185.5	169.1	165.8	161.4	160.3
8411.1	60°	7750.2	6325.3	2299.8	353.5	214.1	165.8	153.7	151.5	147.1	141.6
8842.5	62.5°	7979.7	6083.8	1573.1	230.5	187.7	144.9	136.1	135.0	125.1	114.2
9162.0	65°	8066.4	5587.6	981.4	168.0	157.0	124.0	117.5	115.3	101.0	88.9
9343.1	67.5°	7990.7	4770.9	495.1	132.8	124.0	103.2	96.6	96.6	86.7	75.7
9332.1	70°	7687.7	3576.5	208.6	106.5	95.5	79.0	79.0	83.4	73.6	61.5
8848.0	72.5°	7030.1	2406.3	110.9	81.2	71.4	56.0	64.8	68.1	58.2	46.1
7242.0	75°	5588.7	1467.7	76.8	60.4	45.0	39.5	49.4	51.6	39.5	30.7
4965.2	77.5°	3822.4	843.1	51.6	38.4	28.5	23.1	34.0	31.8	20.9	14.3
1914.5	80°	1678.5	351.3	29.6	17.6	11.0	8.8	12.1	8.8	6.6	4.4
262.4	82.5°	196.5	82.3	11.0	6.6	4.4	2.2	1.1	0.0	0.0	0.0
80.1	85°	40.6	9.9	5.5	2.2	1.1	0.0	0.0	0.0	0.0	0.0
14.3	87.5°	7.7	2.2	1.1	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>
1969.4
1913.4
1828.9
1575.3
1146.1
741.0
593.9
541.2
490.7
441.3
398.5
368.8
337.0
308.5
281.0
256.9
236.0
221.7
208.6
198.7
189.9
181.1
171.3
159.2
140.5
112.0
87.8
74.6
60.4
46.1
29.6
15.4
4.4
0.0
0.0
0.0
0.0

F REPORT)