

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: P951065

Luminaire Tested: **GALN-SB5B-827-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951065
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-SB5B-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 450mA 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: 19053 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

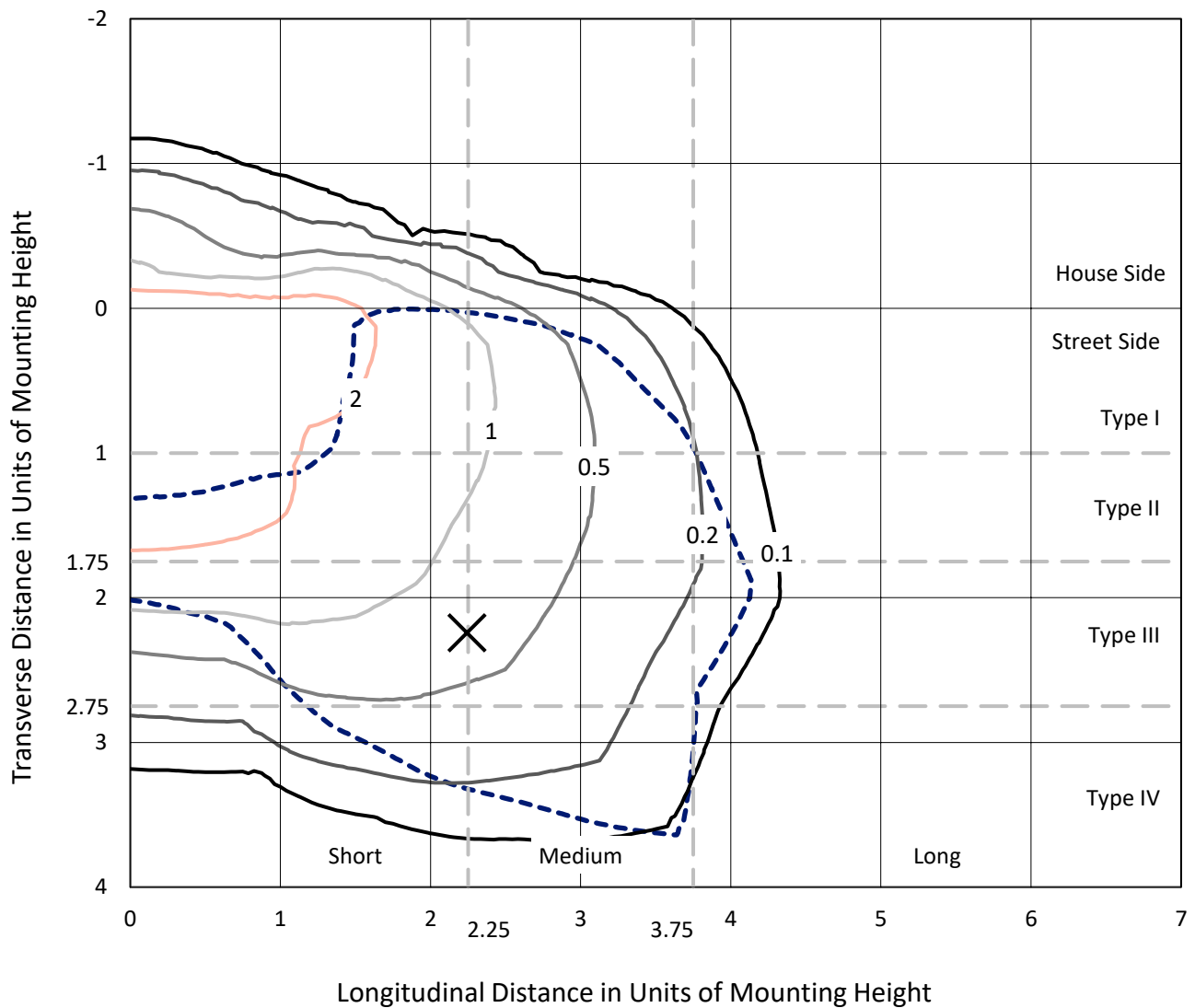
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P951065
 CATALOG NUMBER: GALN-SB5B-827-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

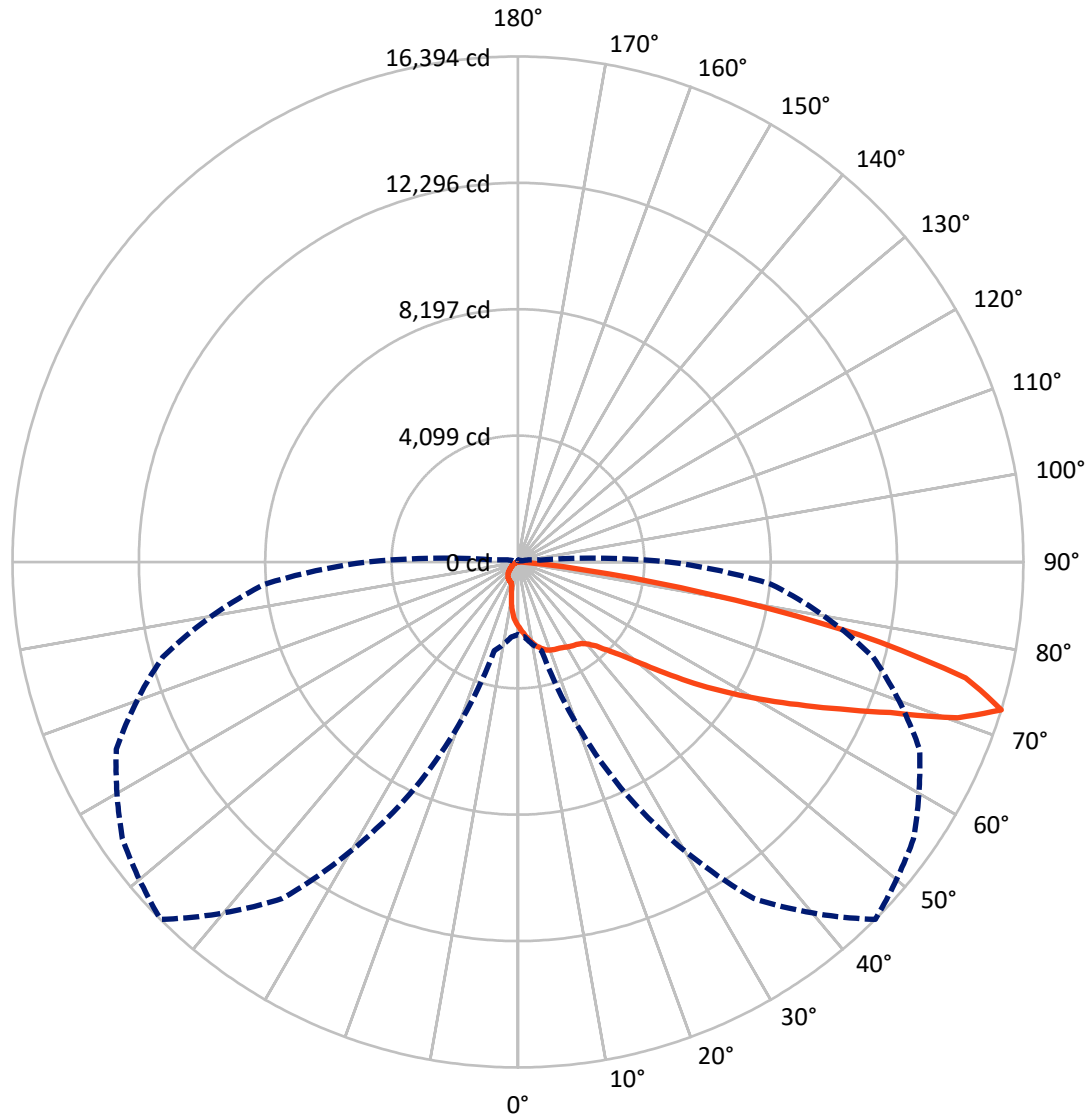
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

REPORT NUMBER: P951065
CATALOG NUMBER: GALN-SB5B-827-U-T4W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P951065
 CATALOG NUMBER: GALN-SB5B-827-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2001.9	0.0	2001.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	17051.1	0.0	17051.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	19053.0	0.0	19053.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.7	1.0
10°-20°	574.8	3.0
20°-30°	943.9	5.0
30°-40°	1338.6	7.0
40°-50°	2212.6	11.6
50°-60°	3974.7	20.9
60°-70°	5519.1	29.0
70°-80°	4003.3	21.0
80°-90°	289.4	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°	19053.0	100.0
0°-180°	19053.0	100.0

Coefficient of Utilization



REPORT NUMBER: P951065

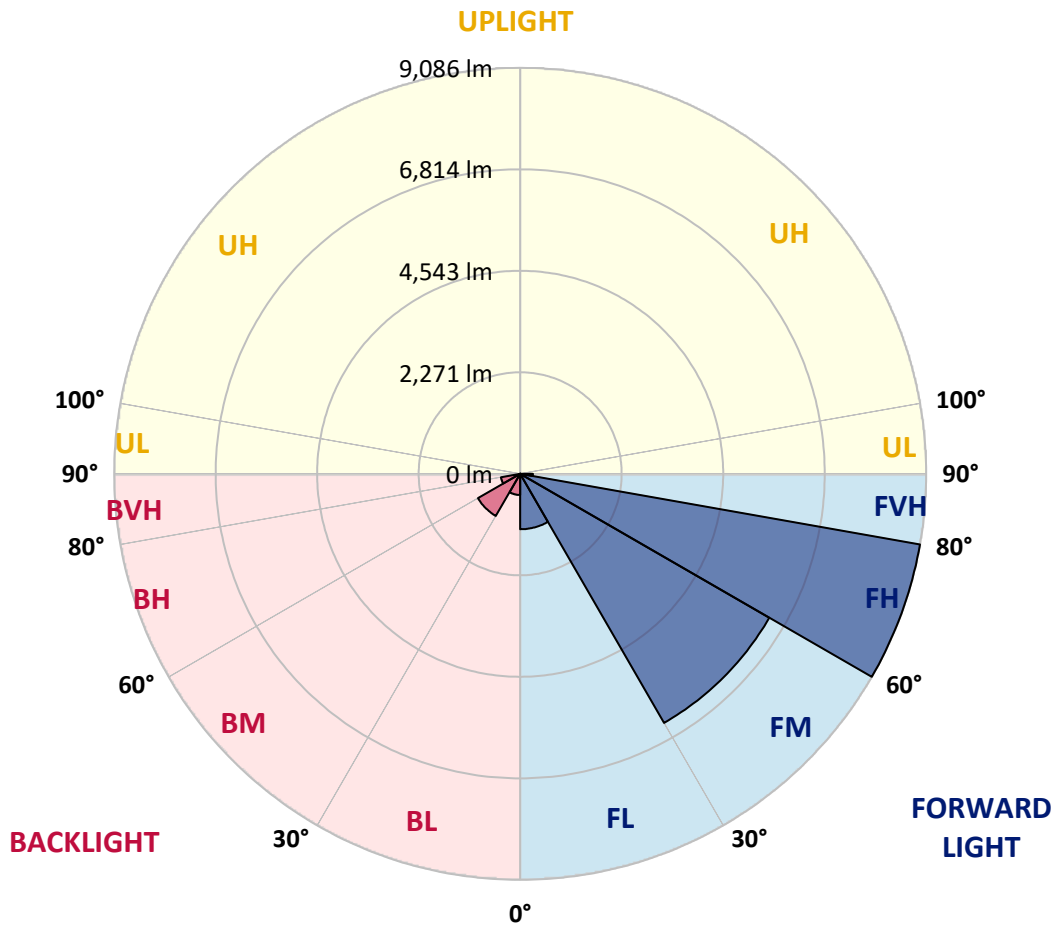
CATALOG NUMBER: GALN-SB5B-827-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1241.1	6.5			
FM (30°-60°)	6437.1	33.8			
FH (60°-80°)	9085.8	47.7			G4/12000
FVH (80°-90°)	287.0	1.5			G3/500
BL (0°-30°)	474.2	2.5	B1/500		
BM (30°-60°)	1088.8	5.7	B2/2500		
BH (60°-80°)	436.5	2.3	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



REPORT NUMBER: P951065
 CATALOG NUMBER: GALN-SB5B-827-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2087.3	2087.3	2087.3	2087.3	2087.3	2087.3	2087.3	2087.3	2087.3	2087.3
2.5°	2279.8	2283.7	2281.1	2265.5	2239.5	2225.1	2217.3	2191.3	2174.4	2144.5
5°	2489.2	2504.8	2495.7	2464.4	2415.0	2379.9	2369.5	2316.2	2268.1	2212.1
7.5°	2711.5	2719.3	2702.4	2662.1	2595.8	2536.0	2526.9	2452.7	2376.0	2290.2
10°	2904.0	2913.1	2887.1	2828.6	2753.2	2679.0	2666.0	2584.1	2493.1	2387.7
12.5°	3065.3	3074.4	3040.6	2970.3	2887.1	2810.4	2797.4	2711.5	2611.4	2494.4
15°	3187.5	3204.4	3158.9	3083.5	2993.7	2917.0	2910.5	2826.0	2728.4	2598.4
17.5°	3259.0	3276.0	3233.0	3142.0	3065.3	3000.2	2992.4	2922.2	2831.2	2706.3
20°	3270.7	3286.4	3240.8	3161.5	3097.8	3045.8	3041.9	2991.1	2924.8	2805.2
22.5°	3235.6	3255.1	3213.5	3149.8	3105.6	3078.3	3073.1	3044.5	3006.7	2905.3
25°	3199.2	3214.8	3183.6	3127.7	3104.3	3101.7	3105.6	3100.4	3092.6	3006.7
27.5°	3196.6	3213.5	3178.4	3125.1	3112.1	3139.4	3143.3	3168.0	3174.5	3099.1
30°	3218.7	3230.4	3196.6	3140.7	3134.2	3196.6	3197.9	3242.1	3252.5	3177.1
32.5°	3266.8	3279.9	3246.0	3164.1	3155.0	3242.1	3246.0	3304.6	3321.5	3260.3
35°	3380.0	3395.6	3356.6	3229.1	3196.6	3285.1	3296.8	3365.7	3399.5	3348.8
37.5°	3662.2	3616.7	3563.4	3360.5	3291.6	3352.7	3372.2	3452.8	3512.6	3454.1
40°	4363.2	4220.1	4053.6	3584.2	3458.0	3497.0	3512.6	3593.3	3675.2	3618.0
42.5°	5415.3	5246.2	4978.3	4099.2	3709.0	3728.5	3740.2	3810.5	3926.2	3880.7
45°	6352.9	6291.8	6018.7	4978.3	4178.5	4082.3	4096.6	4133.0	4303.3	4286.4
47.5°	7073.4	7038.3	6827.6	5987.5	4971.8	4515.3	4555.6	4572.5	4818.3	4878.2
50°	7627.4	7614.4	7425.8	6884.8	6008.3	5153.9	5168.2	5131.8	5499.8	5648.1
52.5°	8150.2	8194.4	8055.3	7718.4	7115.0	5990.1	5987.5	5815.8	6312.6	6536.3
55°	8622.3	8637.9	8652.2	8569.0	8228.2	6942.0	6917.3	6636.4	7255.5	7487.0
57.5°	9065.8	9072.3	9199.7	9370.1	9387.0	7964.2	7918.7	7581.9	8285.5	8450.6
60°	9363.6	9393.5	9662.7	10136.1	10342.8	9018.9	8994.2	8650.9	9333.7	9410.4
62.5°	8934.4	9116.5	9795.3	10734.3	11245.4	10188.1	10176.4	9853.9	10436.5	10374.1
65°	7232.1	7540.3	8734.1	11138.8	12131.0	11493.8	11510.7	11167.4	11569.2	11366.3
67.5°	5058.9	5384.1	6796.4	11171.3	13120.7	13027.1	13124.6	12586.2	12772.2	12317.0
70°	3498.3	3666.1	4585.6	10471.6	13891.9	15139.1	15136.5	14328.9	13968.6	12750.1
72.5°	2352.6	2439.7	2978.1	8307.6	13324.9	16394.1	16318.6	15660.6	14371.8	11924.3
75°	992.3	1056.0	1378.5	4668.8	10541.8	14998.6	14794.4	13839.9	12769.6	9389.6
77.5°	314.7	342.0	543.6	1671.1	5806.7	11274.0	11058.1	8643.1	8558.6	4710.4
80°	149.6	174.3	305.6	671.1	2285.0	6131.8	6101.9	3921.0	3681.7	1271.9
82.5°	65.0	76.7	169.1	358.9	1022.2	2187.4	2231.7	1334.3	1104.1	482.5
85°	20.8	27.3	78.0	165.2	431.8	543.6	537.1	317.3	444.8	262.7
87.5°	0.0	0.0	26.0	37.7	44.2	31.2	35.1	27.3	123.5	72.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951065
 CATALOG NUMBER: GALN-SB5B-827-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2087.3	0°	2087.3	2087.3	2087.3	2087.3	2087.3	2087.3	2087.3	2087.3	2087.3	2087.3
2113.3	2.5°	2097.7	2076.9	2040.5	2006.7	1976.8	1946.8	1928.6	1902.6	1900.0	1900.0
2147.1	5°	2112.0	2078.2	2013.2	1944.2	1864.9	1789.5	1714.1	1641.2	1617.8	1600.9
2201.7	7.5°	2153.6	2100.3	1997.6	1866.2	1715.4	1550.2	1434.4	1309.6	1261.5	1235.5
2274.6	10°	2213.4	2140.6	1984.6	1754.4	1509.9	1284.9	1119.7	984.5	932.5	910.3
2353.9	12.5°	2279.8	2190.0	1961.1	1615.2	1284.9	1015.7	854.4	792.0	784.2	784.2
2448.8	15°	2359.1	2249.9	1920.8	1451.4	1049.5	803.7	746.5	749.1	756.9	762.1
2541.2	17.5°	2441.0	2313.6	1857.1	1268.0	841.4	723.1	724.4	728.3	734.8	740.0
2641.3	20°	2529.5	2377.3	1772.6	1072.9	721.8	699.7	703.6	707.5	712.7	715.3
2734.9	22.5°	2624.4	2437.1	1672.4	881.7	681.5	680.2	681.5	685.4	691.9	691.9
2844.2	25°	2725.8	2503.5	1558.0	742.6	660.7	660.7	663.3	665.9	671.1	671.1
2949.5	27.5°	2829.9	2564.6	1437.0	669.8	642.4	641.1	641.1	645.0	647.6	648.9
3053.6	30°	2944.3	2636.1	1316.1	654.1	628.1	621.6	617.7	620.3	622.9	624.2
3162.8	32.5°	3061.4	2705.0	1208.2	660.7	613.8	602.1	589.1	586.5	586.5	591.7
3276.0	35°	3191.4	2780.5	1124.9	682.8	606.0	573.5	552.7	541.0	542.3	550.1
3411.2	37.5°	3347.5	2871.5	1063.8	702.3	600.8	541.0	507.2	492.9	483.8	492.9
3597.2	40°	3551.7	3005.4	1019.6	717.9	594.3	503.3	457.8	434.4	417.5	422.7
3885.9	42.5°	3852.1	3216.1	1002.7	719.2	580.0	459.1	407.1	375.8	351.1	352.4
4320.2	45°	4273.4	3549.1	1089.8	702.3	548.8	411.0	353.7	312.1	296.5	292.6
4969.2	47.5°	4850.9	4034.1	1291.4	667.2	503.3	364.1	301.7	266.6	254.9	248.4
5821.0	50°	5624.6	4657.1	1515.1	628.1	457.8	319.9	258.8	236.7	228.9	222.4
6831.5	52.5°	6522.0	5289.1	1698.4	589.1	412.3	280.9	231.5	218.5	212.0	206.8
7806.9	55°	7345.2	5724.8	1688.0	547.5	368.0	249.7	212.0	204.2	196.4	191.2
8647.0	57.5°	7857.6	5785.9	1391.5	502.0	317.3	225.0	193.8	188.6	179.5	173.0
9374.0	60°	8093.0	5437.4	975.4	442.2	266.6	201.6	174.3	171.7	160.0	150.9
10061.9	62.5°	8135.9	4789.7	650.2	368.0	222.4	179.5	154.8	150.9	135.3	119.6
10621.2	65°	7961.6	3863.8	450.0	287.4	189.9	156.1	132.7	124.8	107.9	92.3
10753.8	67.5°	7410.2	2712.8	313.4	206.8	161.3	123.5	105.3	102.7	89.7	76.7
10077.5	70°	6399.7	1546.3	209.4	154.8	127.4	84.5	83.2	85.8	72.8	62.4
8233.4	72.5°	4906.8	707.5	130.0	113.1	87.1	57.2	66.3	67.6	55.9	46.8
5137.0	75°	2888.4	303.0	81.9	72.8	44.2	37.7	48.1	49.4	37.7	29.9
1877.9	77.5°	983.2	114.4	52.0	42.9	22.1	20.8	31.2	31.2	20.8	11.7
377.1	80°	223.7	42.9	26.0	16.9	10.4	9.1	10.4	9.1	5.2	1.3
115.7	82.5°	63.7	16.9	10.4	6.5	3.9	3.9	1.3	0.0	0.0	0.0
40.3	85°	18.2	7.8	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
14.3	87.5°	7.8	1.3	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>
2087.3
1906.5
1608.7
1239.4
910.3
784.2
762.1
740.0
716.6
694.5
672.4
650.2
626.8
595.6
554.0
490.3
420.1
347.2
287.4
244.5
221.1
205.5
188.6
171.7
148.3
111.8
87.1
72.8
57.2
41.6
26.0
9.1
0.0
0.0
0.0
0.0
0.0

F REPORT)