

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: P939937

Luminaire Tested: **GALN-SB2D-735-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-735-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20364 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

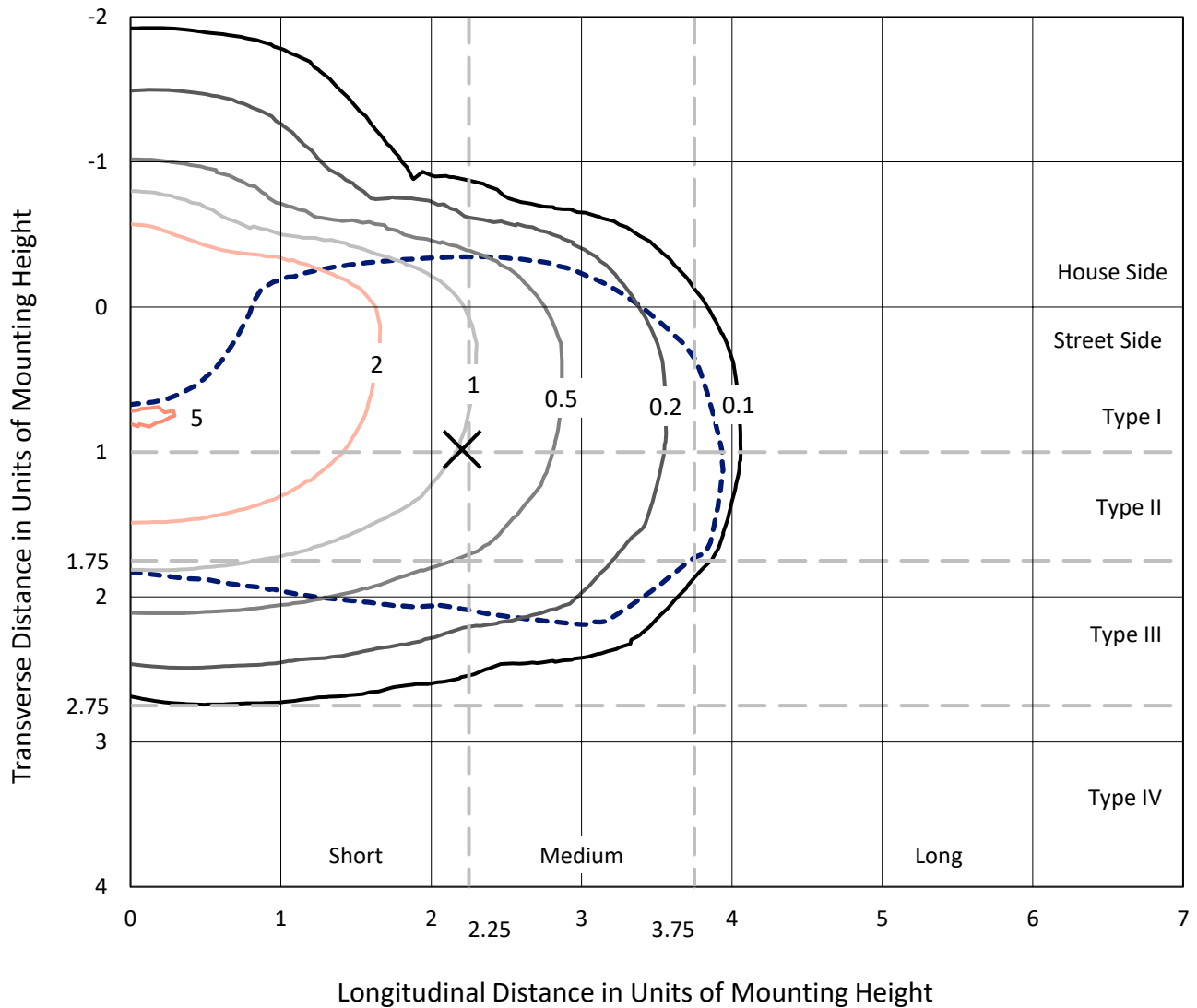
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939937
 CATALOG NUMBER: GALN-SB2D-735-U-T3

Iso-Footcandle Lines of Horizontal Illumination

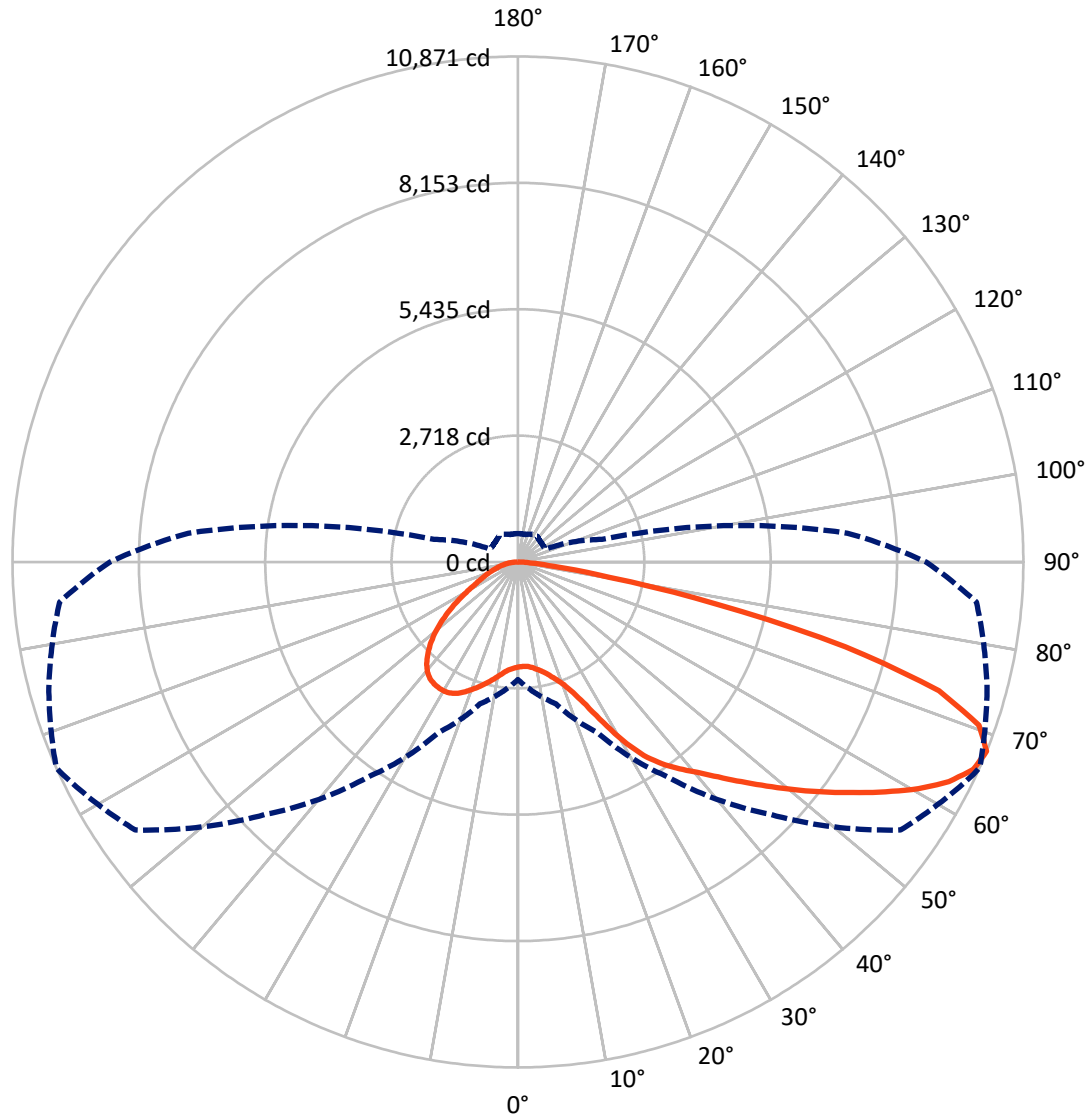
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

REPORT NUMBER: P939937
CATALOG NUMBER: GALN-SB2D-735-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P939937

CATALOG NUMBER: GALN-SB2D-735-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5063.5	0.0	5063.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	15300.5	0.0	15300.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	20364.0	0.0	20364.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.9	1.1
10°-20°	739.9	3.6
20°-30°	1426.0	7.0
30°-40°	2500.3	12.3
40°-50°	3717.2	18.3
50°-60°	4711.9	23.1
60°-70°	4610.5	22.6
70°-80°	2199.2	10.8
80°-90°	235.0	1.2
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°	20364.0	100.0
0°-180°	20364.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939937

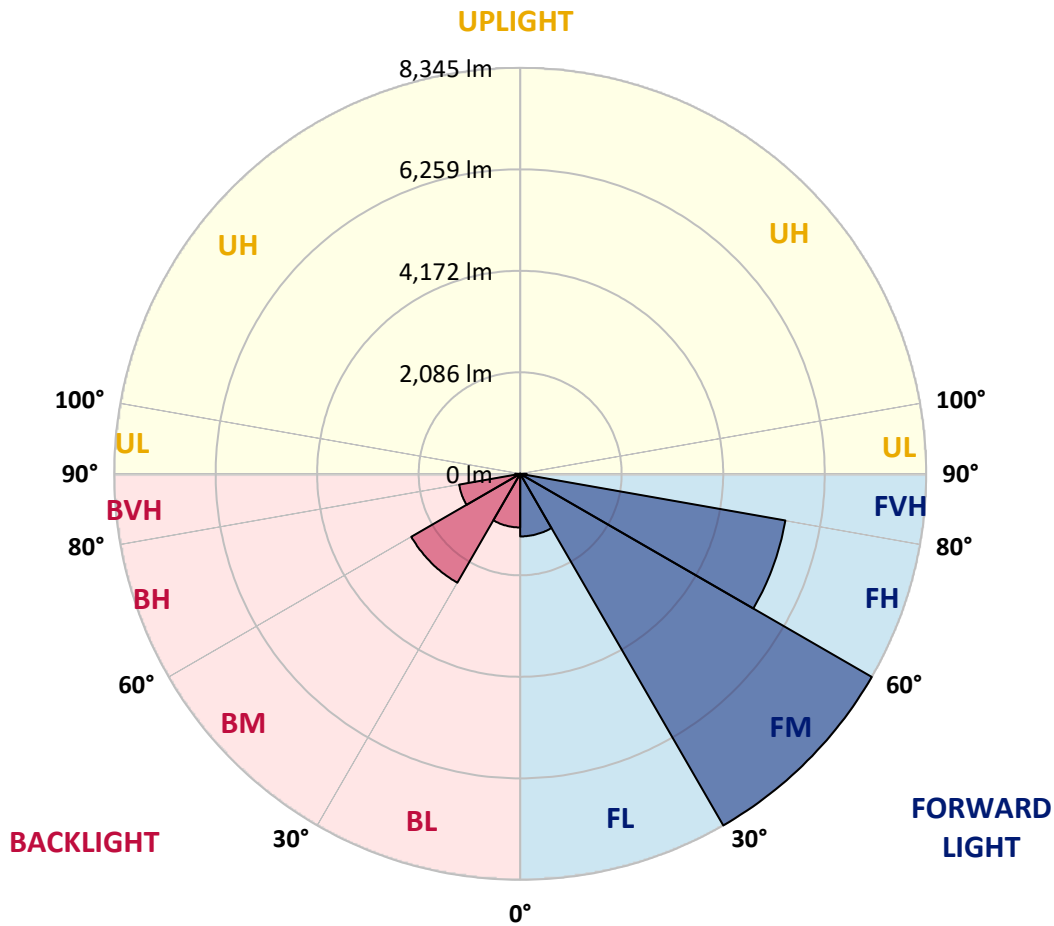
CATALOG NUMBER: GALN-SB2D-735-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1286.8	6.3			
FM (30°-60°)	8345.0	41.0			
FH (60°-80°)	5535.5	27.2			G3/7500
FVH (80°-90°)	133.3	0.7			G2/225
BL (0°-30°)	1103.0	5.4	B3/2500		
BM (30°-60°)	2584.4	12.7	B3/5000		
BH (60°-80°)	1274.2	6.3	B3/2500		G3/2500
BVH (80°-90°)	101.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



REPORT NUMBER: P939937

CATALOG NUMBER: GALN-SB2D-735-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	2258.6	2258.6	2258.6	2258.6	2258.6	2258.6	2258.6	2258.6	2258.6	2258.6
2.5°	2235.1	2247.9	2244.7	2239.4	2238.3	2240.4	2243.7	2246.9	2245.8	2251.1
5°	2228.7	2241.5	2240.4	2240.4	2244.7	2253.3	2258.6	2264.0	2258.6	2265.1
7.5°	2233.0	2242.6	2246.9	2251.1	2261.8	2277.9	2290.7	2302.5	2296.1	2303.6
10°	2287.5	2295.0	2299.3	2299.3	2306.8	2325.0	2337.8	2359.2	2353.9	2365.6
12.5°	2387.0	2394.5	2394.5	2390.2	2395.6	2407.4	2411.6	2435.2	2425.5	2444.8
15°	2509.0	2524.0	2512.2	2504.7	2506.9	2518.6	2517.6	2535.8	2526.1	2542.2
17.5°	2643.8	2663.1	2643.8	2642.7	2638.5	2651.3	2652.4	2668.4	2651.3	2663.1
20°	2803.2	2830.0	2813.9	2819.3	2809.7	2815.0	2820.4	2843.9	2817.1	2825.7
22.5°	3027.9	3060.0	3042.9	3063.2	3056.8	3052.5	3051.5	3093.2	3051.5	3054.7
25°	3355.3	3393.8	3363.9	3391.7	3391.7	3405.6	3421.7	3475.2	3405.6	3385.3
27.5°	3838.9	3877.5	3818.6	3835.7	3830.4	3864.6	3847.5	3980.2	3905.3	3872.1
30°	4421.0	4489.5	4378.2	4373.9	4368.6	4423.1	4447.7	4535.5	4459.5	4426.3
32.5°	5050.1	5121.8	4989.1	4950.6	4930.3	4963.4	4943.1	5013.7	4961.3	4909.9
35°	5715.6	5786.2	5660.0	5585.1	5503.8	5434.2	5361.5	5379.6	5330.4	5252.3
37.5°	6344.7	6474.2	6340.4	6260.2	6110.4	5974.5	5771.2	5686.7	5640.7	5569.0
40°	6985.6	7059.4	6957.8	6889.3	6726.7	6513.8	6188.5	6009.8	5947.8	5878.2
42.5°	7457.5	7528.1	7473.5	7426.4	7299.1	7052.0	6631.5	6407.9	6318.0	6239.9
45°	7831.9	7884.4	7850.1	7867.2	7812.7	7573.0	7090.5	6834.8	6741.7	6646.4
47.5°	7982.8	8038.4	8093.0	8194.6	8287.7	8111.2	7583.7	7297.0	7198.5	7101.2
50°	7965.7	8022.4	8180.7	8396.9	8685.7	8626.9	8103.7	7789.1	7698.2	7586.9
52.5°	7828.7	7892.9	8096.2	8455.7	8915.8	9013.1	8633.3	8297.4	8211.8	8079.1
55°	7469.2	7507.7	7812.7	8322.0	8970.4	9282.8	9152.2	8838.7	8753.2	8568.1
57.5°	6802.7	6858.3	7302.3	7961.4	8833.4	9465.7	9608.0	9408.0	9325.6	9059.2
60°	5932.8	6021.6	6529.8	7355.8	8484.6	9464.7	10022.1	9967.5	9899.1	9542.8
62.5°	4948.5	5051.2	5540.1	6499.9	7874.7	9196.1	10281.0	10436.2	10400.9	9988.9
65°	3800.4	3871.0	4357.9	5392.5	6925.7	8619.4	10311.0	10756.1	10762.5	10328.1
67.5°	2530.4	2733.7	3156.3	4046.5	5654.6	7676.8	10047.8	10808.5	10870.6	10444.7
70°	1234.7	1502.2	1916.3	2629.9	4046.5	6231.3	9359.8	10378.4	10516.4	10104.5
72.5°	512.5	599.2	824.9	1297.8	2322.8	4204.9	7977.4	9212.2	9467.9	8953.2
75°	345.6	374.5	471.8	665.5	1058.2	2073.5	5753.1	6869.0	7280.9	6762.0
77.5°	266.4	284.6	343.4	465.4	629.1	784.3	3079.3	4139.6	4352.5	4029.4
80°	209.7	223.6	256.8	339.2	446.2	419.4	1049.6	1875.6	1998.6	1676.6
82.5°	181.9	187.2	184.0	230.0	296.4	245.0	344.5	692.2	763.9	554.2
85°	131.6	146.6	153.0	142.3	157.3	124.1	141.2	245.0	269.6	240.7
87.5°	53.5	79.2	97.4	92.0	57.8	35.3	43.9	71.7	82.4	89.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939937
 CATALOG NUMBER: GALN-SB2D-735-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2258.6	0°	2258.6	2258.6	2258.6	2258.6	2258.6	2258.6	2258.6	2258.6	2258.6	2258.6
2259.7	2.5°	2260.8	2268.3	2273.6	2280.0	2284.3	2290.7	2303.6	2311.1	2312.1	2317.5
2276.8	5°	2281.1	2291.8	2303.6	2320.7	2340.0	2356.0	2380.6	2397.7	2404.1	2409.5
2318.6	7.5°	2325.0	2340.0	2361.4	2391.3	2419.1	2440.5	2470.5	2490.8	2511.1	2518.6
2384.9	10°	2390.2	2411.6	2442.7	2483.3	2513.3	2541.1	2572.1	2589.2	2609.6	2618.1
2464.1	12.5°	2471.6	2494.0	2534.7	2591.4	2619.2	2638.5	2649.2	2644.9	2649.2	2656.7
2559.3	15°	2564.6	2589.2	2635.3	2696.2	2715.5	2698.4	2674.8	2653.4	2650.2	2652.4
2674.8	17.5°	2674.8	2693.0	2746.5	2797.9	2784.0	2713.4	2662.0	2627.8	2610.6	2605.3
2822.5	20°	2828.9	2828.9	2872.8	2904.9	2811.8	2692.0	2611.7	2556.1	2520.8	2505.8
3023.6	22.5°	3016.2	2999.0	3026.9	3004.4	2806.4	2632.0	2520.8	2424.5	2371.0	2349.6
3305.0	25°	3253.7	3233.3	3225.9	3086.8	2767.9	2536.8	2356.0	2239.4	2192.3	2180.5
3710.5	27.5°	3612.1	3560.7	3463.4	3131.7	2697.3	2387.0	2163.4	2055.3	2028.6	2029.7
4231.6	30°	4089.3	3986.6	3748.0	3139.2	2581.8	2175.2	1966.5	1889.5	1876.7	1882.0
4669.2	32.5°	4531.2	4433.8	4039.0	3105.0	2404.1	1967.6	1790.0	1738.6	1719.4	1725.8
5003.0	35°	4877.8	4851.1	4308.6	3056.8	2185.9	1772.9	1631.7	1587.8	1550.3	1541.8
5317.6	37.5°	5205.2	5194.5	4510.9	2989.4	1969.8	1634.9	1504.3	1446.6	1392.0	1362.0
5665.3	40°	5564.7	5554.0	4643.5	2885.6	1778.2	1515.0	1389.8	1313.9	1246.5	1191.9
6059.1	42.5°	5969.2	5906.1	4706.7	2736.9	1615.6	1413.4	1296.8	1194.0	1105.2	1055.0
6504.1	45°	6411.1	6268.8	4705.6	2547.5	1478.7	1320.3	1197.3	1051.7	969.4	922.3
6961.0	47.5°	6879.7	6615.4	4647.8	2337.8	1346.0	1217.6	1043.2	931.9	877.3	848.5
7457.5	50°	7363.3	6939.6	4549.4	2097.1	1210.1	1101.0	946.9	870.9	829.2	802.5
7949.6	52.5°	7818.0	7233.8	4430.6	1824.2	1072.1	987.6	904.1	845.3	801.4	771.4
8426.8	55°	8240.7	7487.4	4262.6	1545.0	959.7	911.6	883.8	834.6	784.3	749.0
8911.5	57.5°	8616.2	7652.2	3972.7	1282.9	879.5	859.2	862.4	816.4	758.6	728.6
9388.7	60°	8928.6	7773.1	3543.6	1040.0	814.2	807.8	829.2	782.1	714.7	680.5
9792.1	62.5°	9115.9	7771.0	3017.2	851.7	758.6	760.7	785.3	739.3	670.9	638.8
10002.8	65°	9099.8	7580.5	2439.5	728.6	705.1	707.2	739.3	692.2	634.5	615.2
9896.9	67.5°	8777.8	7116.2	1871.3	648.4	646.2	655.9	693.3	660.2	612.0	609.9
9265.7	70°	7905.8	6152.1	1348.1	584.2	585.3	599.2	648.4	639.8	600.2	604.5
7790.2	72.5°	6339.4	4690.6	905.2	516.8	517.8	540.3	605.6	623.8	588.5	645.2
5527.3	75°	4222.0	2925.2	582.0	445.1	446.2	475.1	568.1	592.7	556.4	643.0
2876.0	77.5°	2028.6	1315.0	421.6	374.5	374.5	401.2	491.1	530.7	474.0	499.7
924.4	80°	700.8	494.3	331.7	301.7	295.3	313.5	414.1	460.1	408.7	376.6
301.7	82.5°	276.0	256.8	266.4	234.3	212.9	224.7	322.1	379.8	300.7	271.8
170.1	85°	158.4	166.9	188.3	155.1	123.0	138.0	236.5	272.8	226.8	200.1
55.6	87.5°	42.8	58.8	86.7	80.2	55.6	58.8	112.3	150.9	130.5	100.6
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>
2258.6
2316.4
2408.4
2519.7
2622.4
2658.8
2659.9
2612.8
2502.6
2346.4
2182.7
2032.9
1900.2
1734.4
1548.2
1363.1
1197.3
1058.2
920.1
842.0
792.8
758.6
735.0
709.4
665.5
629.1
614.1
613.1
603.4
653.7
648.4
457.9
353.1
270.7
204.4
103.8
0.0

F REPORT)