

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: P941517

Luminaire Tested: **GALN-SB5A-830-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941517
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-SB5A-830-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20375 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

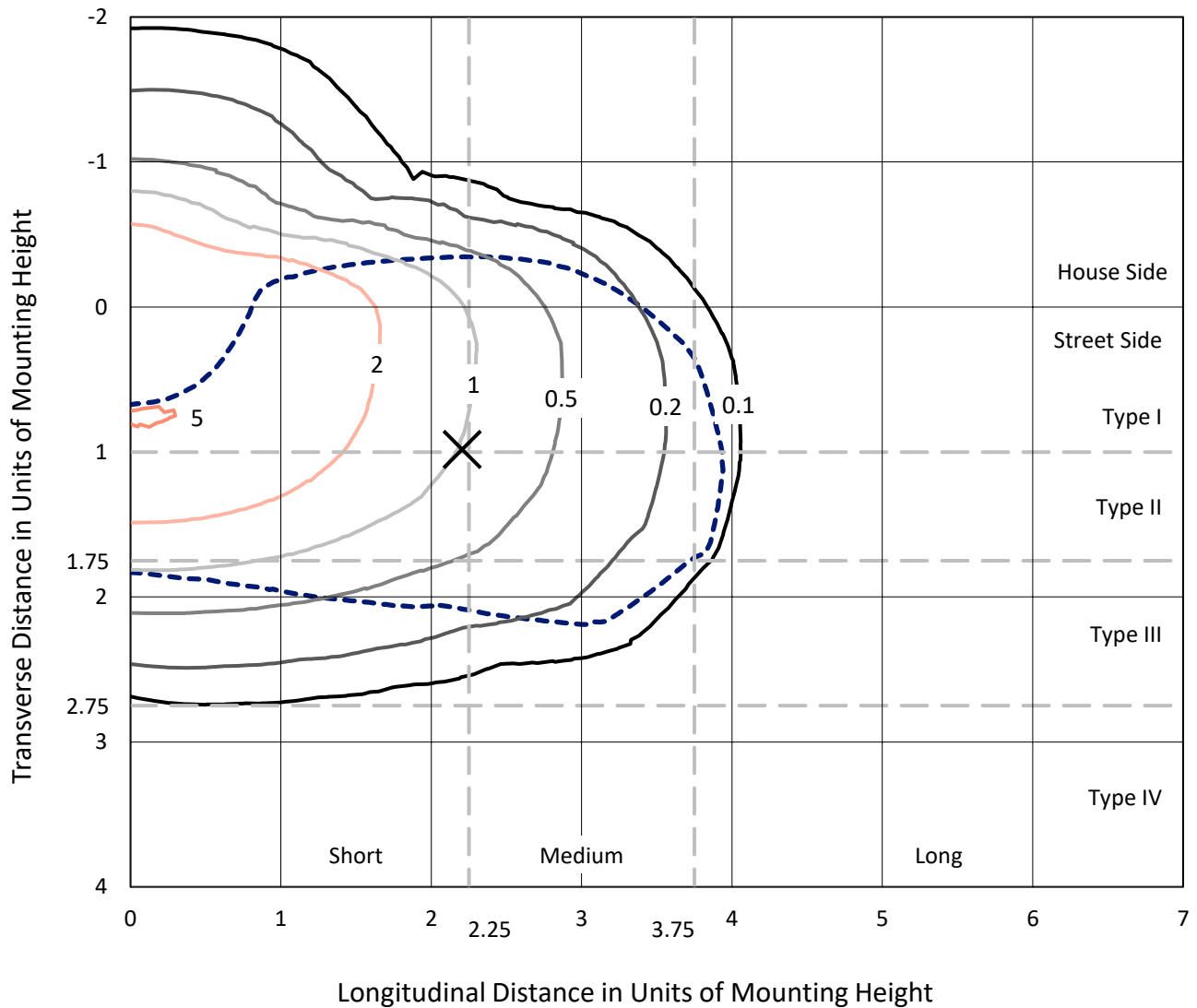
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941517
 CATALOG NUMBER: GALN-SB5A-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

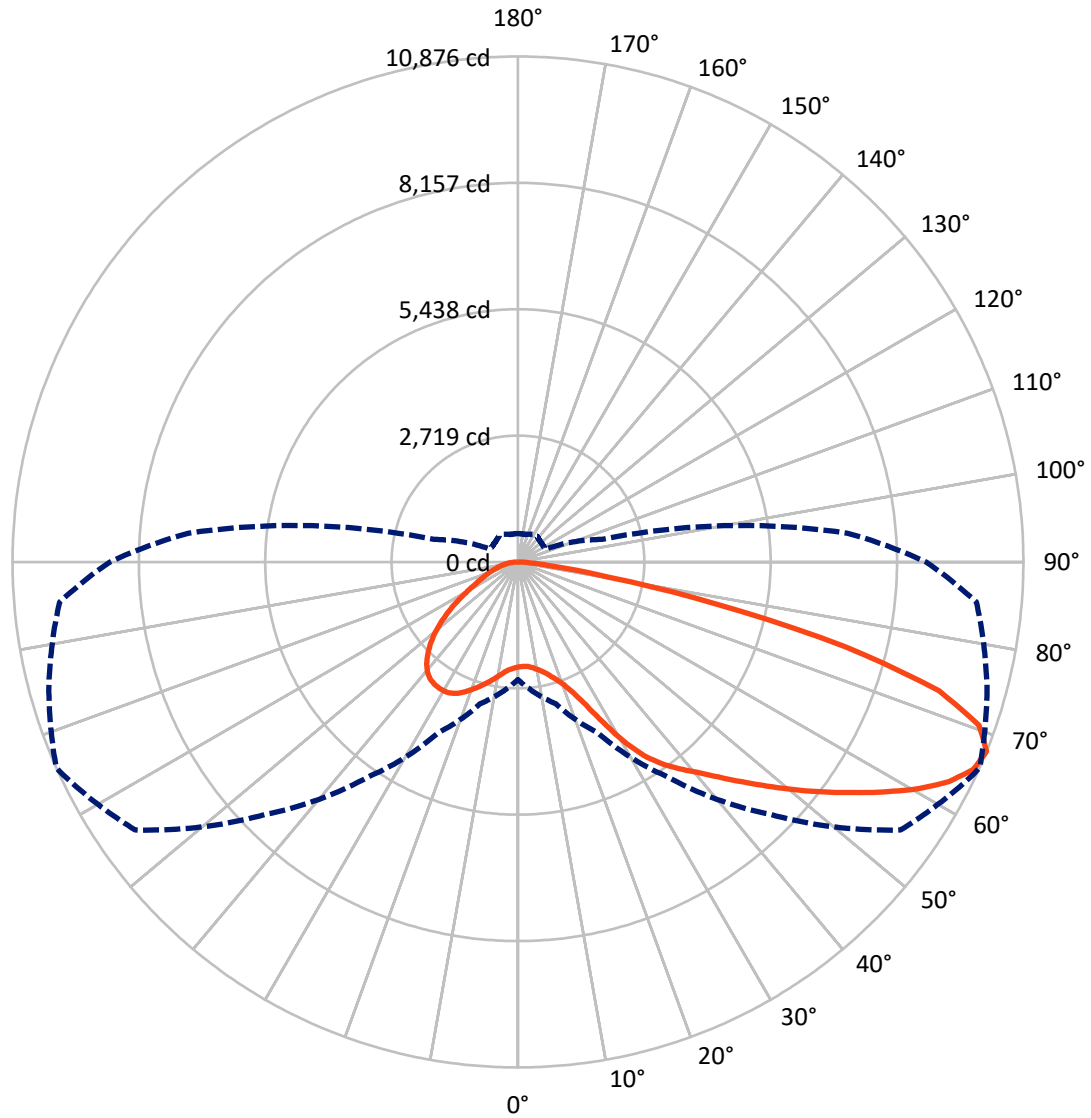
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P941517
CATALOG NUMBER: GALN-SB5A-830-U-T3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P941517
 CATALOG NUMBER: GALN-SB5A-830-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5066.2	0.0	5066.2
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	15308.8	0.0	15308.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	20375.0	0.0	20375.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.1	1.1
10°-20°	740.2	3.6
20°-30°	1426.8	7.0
30°-40°	2501.7	12.3
40°-50°	3719.2	18.3
50°-60°	4714.4	23.1
60°-70°	4613.0	22.6
70°-80°	2200.4	10.8
80°-90°	235.2	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°	20375.0	100.0
0°-180°	20375.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941517

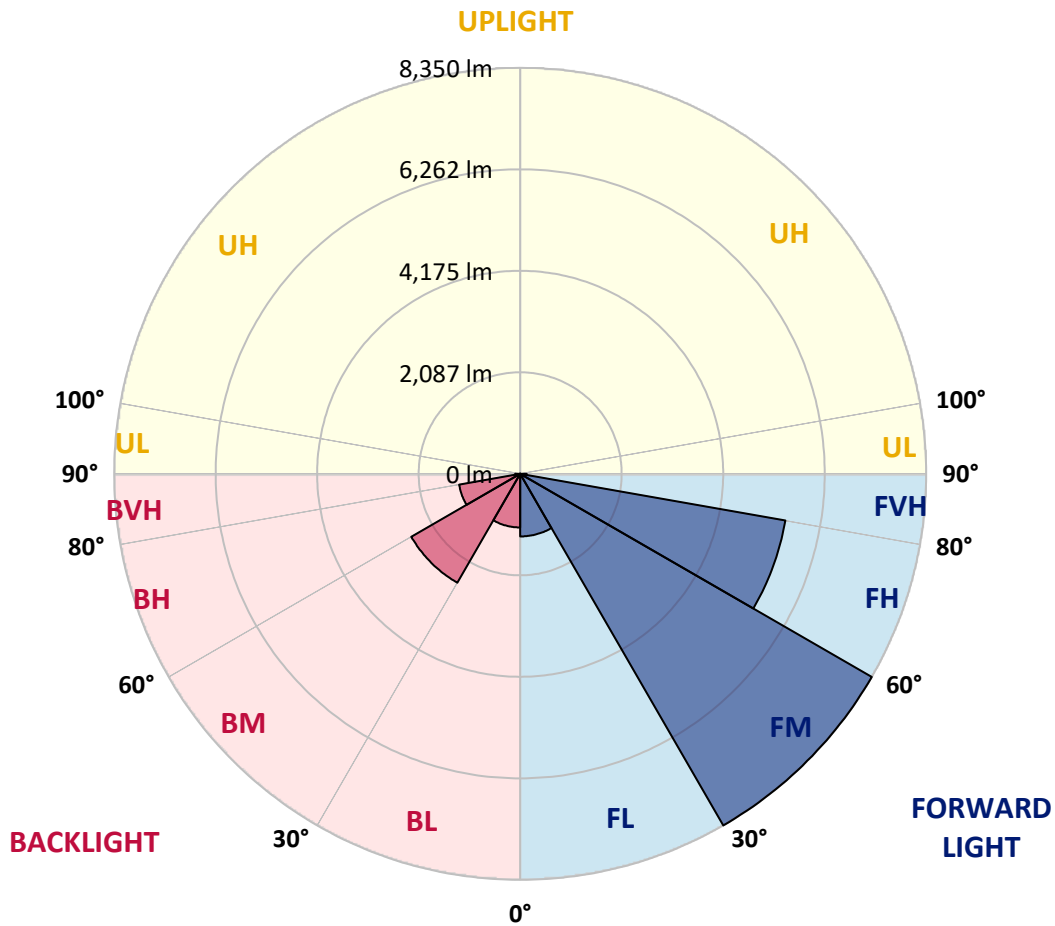
CATALOG NUMBER: GALN-SB5A-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1287.5	6.3			
FM (30°-60°)	8349.5	41.0			
FH (60°-80°)	5538.5	27.2			G3/7500
FVH (80°-90°)	133.3	0.7			G2/225
BL (0°-30°)	1103.6	5.4	B3/2500		
BM (30°-60°)	2585.8	12.7	B3/5000		
BH (60°-80°)	1274.9	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: P941517
 CATALOG NUMBER: GALN-SB5A-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	2259.9	2259.9	2259.9	2259.9	2259.9	2259.9	2259.9	2259.9	2259.9	2259.9
2.5°	2236.3	2249.2	2245.9	2240.6	2239.5	2241.7	2244.9	2248.1	2247.0	2252.4
5°	2229.9	2242.7	2241.7	2241.7	2245.9	2254.5	2259.9	2265.2	2259.9	2266.3
7.5°	2234.2	2243.8	2248.1	2252.4	2263.1	2279.1	2292.0	2303.7	2297.3	2304.8
10°	2288.8	2296.3	2300.5	2300.5	2308.0	2326.2	2339.1	2360.5	2355.1	2366.9
12.5°	2388.3	2395.8	2395.8	2391.5	2396.9	2408.7	2412.9	2436.5	2426.9	2446.1
15°	2510.4	2525.3	2513.6	2506.1	2508.2	2520.0	2518.9	2537.1	2527.5	2543.5
17.5°	2645.2	2664.5	2645.2	2644.2	2639.9	2652.7	2653.8	2669.9	2652.7	2664.5
20°	2804.7	2831.5	2815.5	2820.8	2811.2	2816.5	2821.9	2845.4	2818.7	2827.2
22.5°	3029.6	3061.7	3044.5	3064.9	3058.5	3054.2	3053.1	3094.9	3053.1	3056.3
25°	3357.1	3395.7	3365.7	3393.5	3393.5	3407.4	3423.5	3477.0	3407.4	3387.1
27.5°	3841.0	3879.5	3820.7	3837.8	3832.4	3866.7	3849.6	3982.3	3907.4	3874.2
30°	4423.4	4491.9	4380.5	4376.3	4370.9	4425.5	4450.1	4537.9	4461.9	4428.7
32.5°	5052.8	5124.6	4991.8	4953.3	4932.9	4966.1	4945.8	5016.4	4964.0	4912.6
35°	5718.7	5789.3	5663.0	5588.1	5506.7	5437.1	5364.3	5382.5	5333.3	5255.2
37.5°	6348.2	6477.7	6343.9	6263.6	6113.7	5977.8	5774.4	5689.8	5643.8	5572.0
40°	6989.4	7063.3	6961.6	6893.0	6730.3	6517.3	6191.9	6013.1	5951.0	5881.4
42.5°	7461.5	7532.1	7477.5	7430.4	7303.1	7055.8	6635.1	6411.3	6321.4	6243.2
45°	7836.2	7888.6	7854.4	7871.5	7816.9	7577.1	7094.3	6838.4	6745.3	6650.0
47.5°	7987.1	8042.8	8097.4	8199.1	8292.2	8115.6	7587.8	7300.9	7202.4	7105.0
50°	7970.0	8026.7	8185.2	8401.4	8690.4	8631.6	8108.1	7793.3	7702.4	7591.0
52.5°	7833.0	7897.2	8100.6	8460.3	8920.6	9018.0	8638.0	8301.8	8216.2	8083.5
55°	7473.3	7511.8	7816.9	8326.5	8975.2	9287.8	9157.2	8843.5	8757.9	8572.7
57.5°	6806.3	6862.0	7306.3	7965.7	8838.2	9470.8	9613.2	9413.0	9330.6	9064.0
60°	5936.0	6024.9	6533.4	7359.8	8489.2	9469.8	10027.5	9972.9	9904.4	9547.9
62.5°	4951.1	5053.9	5543.1	6503.4	7879.0	9201.1	10286.6	10441.8	10406.5	9994.3
65°	3802.5	3873.1	4360.2	5395.4	6929.4	8624.1	10316.6	10761.9	10768.3	10333.7
67.5°	2531.8	2735.2	3158.0	4048.7	5657.7	7680.9	10053.2	10814.3	10876.4	10450.4
70°	1235.4	1503.0	1917.3	2631.3	4048.7	6234.7	9364.9	10384.0	10522.1	10109.9
72.5°	512.8	599.5	825.4	1298.5	2324.1	4207.1	7981.8	9217.1	9473.0	8958.1
75°	345.8	374.7	472.1	665.9	1058.7	2074.7	5756.2	6872.7	7284.9	6765.7
77.5°	266.6	284.8	343.6	465.7	629.5	784.7	3080.9	4141.8	4354.9	4031.6
80°	209.8	223.7	256.9	339.4	446.4	419.6	1050.2	1876.6	1999.7	1677.5
82.5°	182.0	187.3	184.1	230.2	296.5	245.1	344.7	692.6	764.3	554.5
85°	131.7	146.7	153.1	142.4	157.4	124.2	141.3	245.1	269.8	240.9
87.5°	53.5	79.2	97.4	92.1	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: P941517
 CATALOG NUMBER: GALN-SB5A-830-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2259.9	0°	2259.9	2259.9	2259.9	2259.9	2259.9	2259.9	2259.9	2259.9	2259.9	2259.9
2260.9	2.5°	2262.0	2269.5	2274.8	2281.3	2285.5	2292.0	2304.8	2312.3	2313.4	2318.7
2278.1	5°	2282.3	2293.0	2304.8	2321.9	2341.2	2357.3	2381.9	2399.0	2405.4	2410.8
2319.8	7.5°	2326.2	2341.2	2362.6	2392.6	2420.4	2441.8	2471.8	2492.2	2512.5	2520.0
2386.2	10°	2391.5	2412.9	2444.0	2484.7	2514.6	2542.5	2573.5	2590.6	2611.0	2619.5
2465.4	12.5°	2472.9	2495.4	2536.0	2592.8	2620.6	2639.9	2650.6	2646.3	2650.6	2658.1
2560.7	15°	2566.0	2590.6	2636.7	2697.7	2717.0	2699.8	2676.3	2654.9	2651.7	2653.8
2676.3	17.5°	2676.3	2694.5	2748.0	2799.4	2785.5	2714.8	2663.4	2629.2	2612.1	2606.7
2824.0	20°	2830.4	2830.4	2874.3	2906.4	2813.3	2693.4	2613.1	2557.5	2522.1	2507.1
3025.3	22.5°	3017.8	3000.7	3028.5	3006.0	2808.0	2633.5	2522.1	2425.8	2372.3	2350.9
3306.8	25°	3255.4	3235.1	3227.6	3088.4	2769.4	2538.2	2357.3	2240.6	2193.5	2181.7
3712.5	27.5°	3614.1	3562.7	3465.3	3133.4	2698.8	2388.3	2164.6	2056.5	2029.7	2030.8
4233.9	30°	4091.5	3988.7	3750.0	3140.9	2583.2	2176.4	1967.6	1890.5	1877.7	1883.0
4671.7	32.5°	4533.6	4436.2	4041.2	3106.6	2405.4	1968.7	1791.0	1739.6	1720.3	1726.7
5005.7	35°	4880.5	4853.7	4311.0	3058.5	2187.1	1773.8	1632.5	1588.6	1551.2	1542.6
5320.5	37.5°	5208.1	5197.3	4513.3	2991.0	1970.8	1635.7	1505.1	1447.3	1392.7	1362.8
5668.4	40°	5567.7	5557.0	4646.0	2887.2	1779.2	1515.8	1390.6	1314.6	1247.1	1192.6
6062.3	42.5°	5972.4	5909.2	4709.2	2738.4	1616.5	1414.2	1297.5	1194.7	1105.8	1055.5
6507.7	45°	6414.5	6272.1	4708.1	2548.9	1479.5	1321.0	1197.9	1052.3	969.9	922.8
6964.8	47.5°	6883.4	6619.0	4650.3	2339.1	1346.7	1218.2	1043.8	932.4	877.8	848.9
7461.5	50°	7367.3	6943.4	4551.8	2098.2	1210.8	1101.6	947.4	871.4	829.6	802.9
7953.9	52.5°	7822.3	7237.8	4433.0	1825.2	1072.7	988.1	904.6	845.7	801.8	771.8
8431.4	55°	8245.1	7491.5	4264.9	1545.8	960.3	912.1	884.2	835.0	784.7	749.4
8916.3	57.5°	8620.9	7656.3	3974.8	1283.5	880.0	859.6	862.8	816.8	759.0	729.0
9393.8	60°	8933.4	7777.3	3545.5	1040.5	814.7	808.2	829.6	782.5	715.1	680.8
9797.4	62.5°	9120.8	7775.1	3018.9	852.1	759.0	761.1	785.8	739.7	671.2	639.1
10008.2	65°	9104.7	7584.6	2440.8	729.0	705.5	707.6	739.7	692.6	634.8	615.5
9902.3	67.5°	8782.5	7120.0	1872.3	648.7	646.6	656.2	693.7	660.5	612.3	610.2
9270.7	70°	7910.0	6155.5	1348.8	584.5	585.6	599.5	648.7	640.2	600.6	604.8
7794.4	72.5°	6342.8	4693.1	905.7	517.1	518.1	540.6	605.9	624.1	588.8	645.5
5530.3	75°	4224.3	2926.8	582.4	445.3	446.4	475.3	568.4	593.1	556.7	643.4
2877.5	77.5°	2029.7	1315.7	421.8	374.7	374.7	401.4	491.4	531.0	474.2	499.9
924.9	80°	701.2	494.6	331.9	301.9	295.5	313.7	414.3	460.3	408.9	376.8
301.9	82.5°	276.2	256.9	266.6	234.4	213.0	224.8	322.2	380.0	300.8	271.9
170.2	85°	158.4	167.0	188.4	155.2	123.1	138.1	236.6	273.0	226.9	200.2
55.7	87.5°	42.8	58.9	86.7	80.3	55.7	58.9	112.4	150.9	130.6	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>
2259.9
2317.7
2409.7
2521.1
2623.8
2660.2
2661.3
2614.2
2503.9
2347.6
2183.9
2034.0
1901.2
1735.3
1549.0
1363.8
1197.9
1058.7
920.6
842.5
793.3
759.0
735.4
709.8
665.9
629.5
614.5
613.4
603.8
654.1
648.7
458.2
353.3
270.8
204.5
103.8
0.0

F REPORT)