

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: P950625

Luminaire Tested: **GALN-SB5A-735-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-735-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22615 lumens
Efficiency: N/A
Efficacy: 159.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

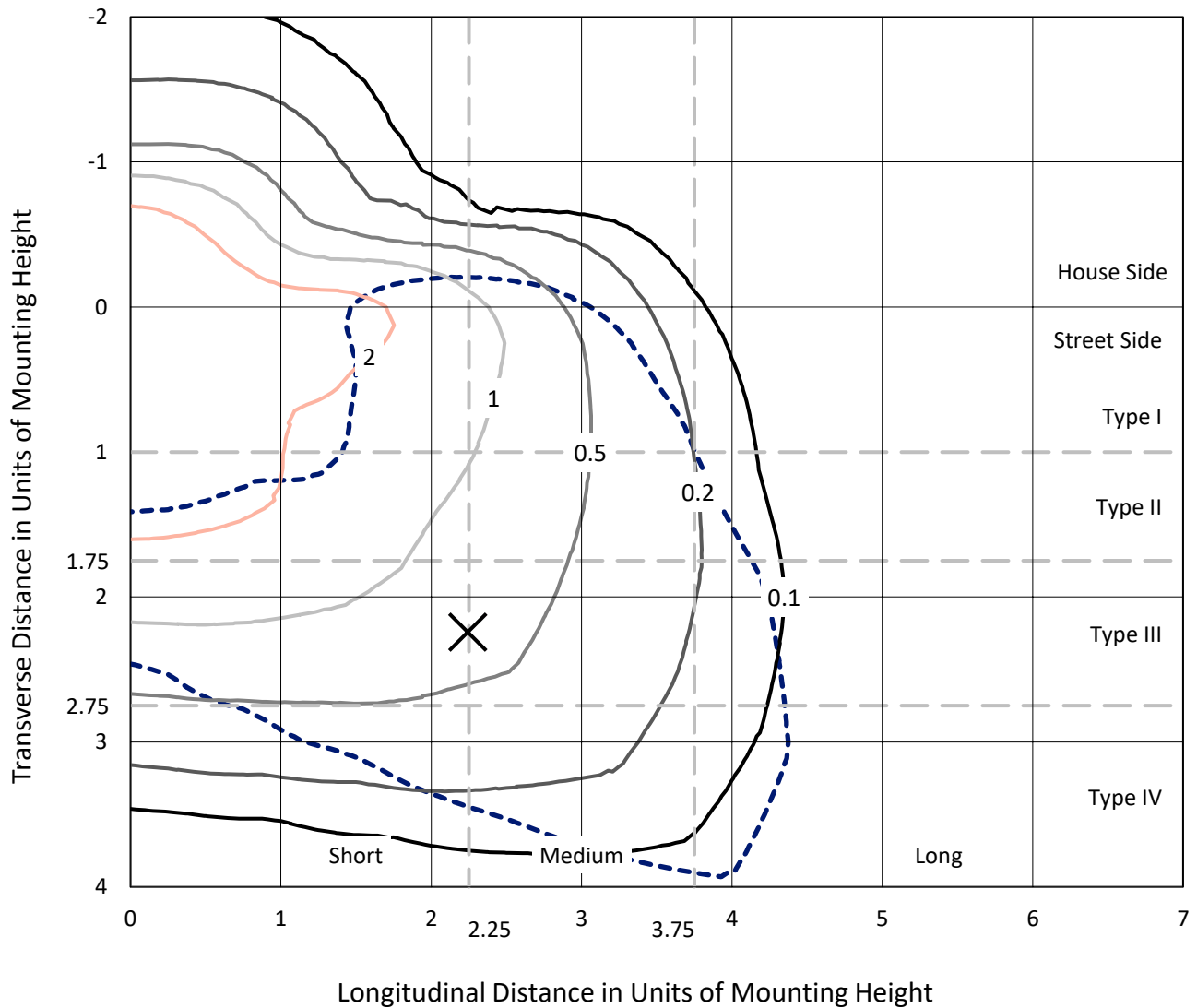
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950625
 CATALOG NUMBER: GALN-SB5A-735-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

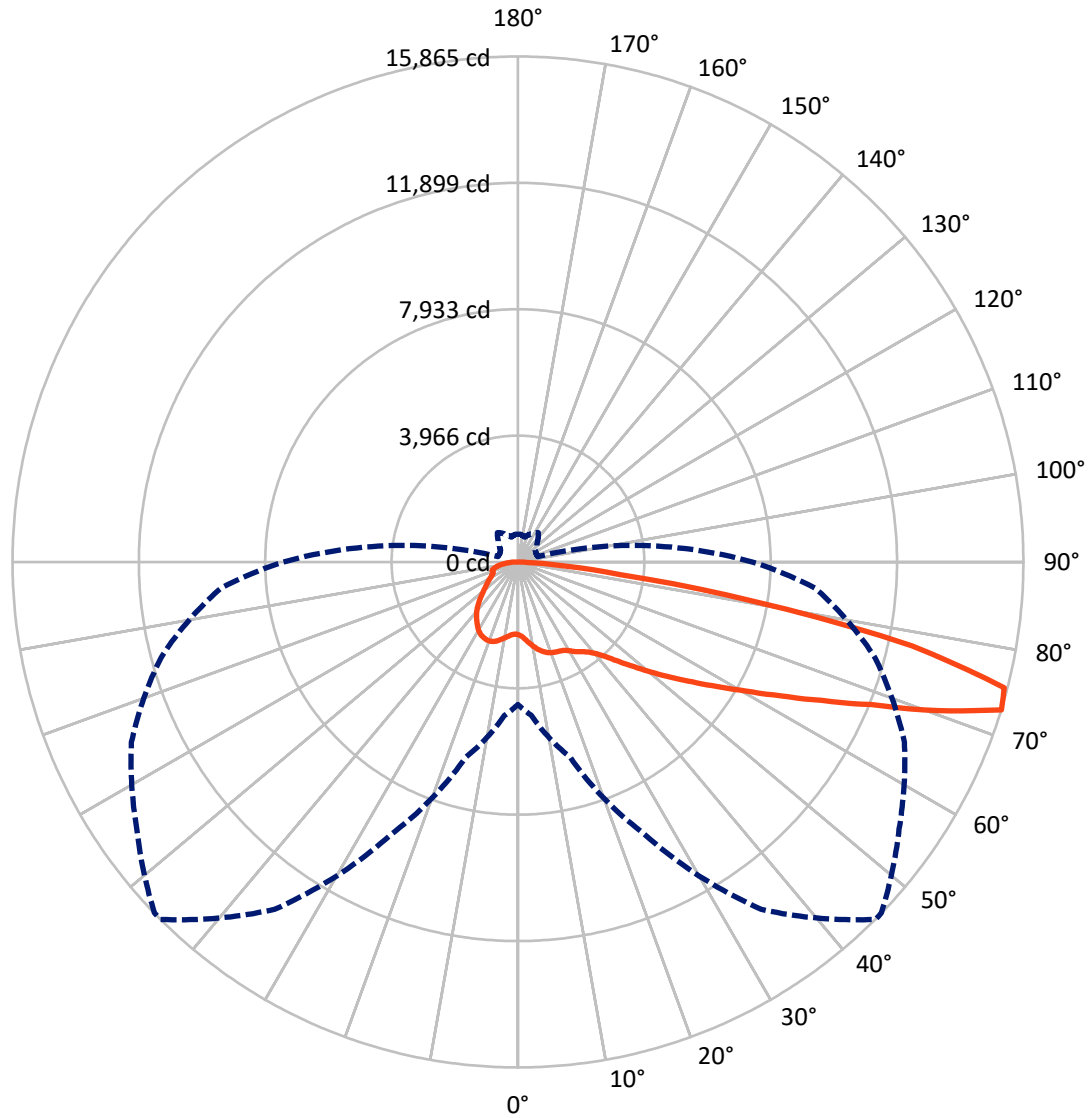
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P950625
CATALOG NUMBER: GALN-SB5A-735-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P950625
 CATALOG NUMBER: GALN-SB5A-735-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5112.5	0.0	5112.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	17502.5	0.0	17502.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	22615.0	0.0	22615.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.2	1.0
10°-20°	774.2	3.4
20°-30°	1346.8	6.0
30°-40°	1930.6	8.5
40°-50°	2718.5	12.0
50°-60°	4163.9	18.4
60°-70°	6032.0	26.7
70°-80°	4816.9	21.3
80°-90°	599.9	2.7
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°	22615.0	100.0
0°-180°	22615.0	100.0



REPORT NUMBER: P950625

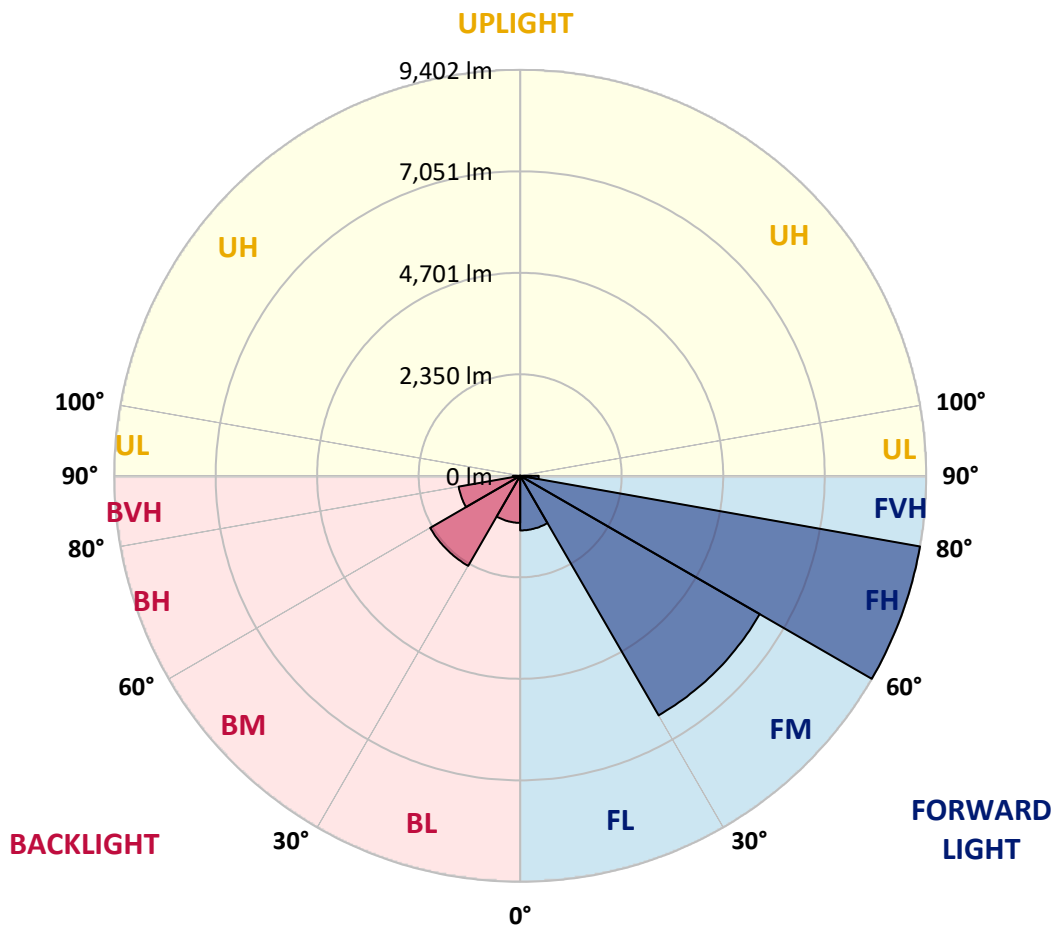
CATALOG NUMBER: GALN-SB5A-735-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1264.7	5.6			
FM (30°-60°)	6405.7	28.3			
FH (60°-80°)	9401.7	41.6			G4/12000
FVH (80°-90°)	430.4	1.9			G3/500
BL (0°-30°)	1088.5	4.8	B3/2500		
BM (30°-60°)	2407.3	10.6	B2/2500		
BH (60°-80°)	1447.2	6.4	B3/2500		G3/2500
BVH (80°-90°)	169.5	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



REPORT NUMBER: P950625

CATALOG NUMBER: GALN-SB5A-735-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2281.4	2281.4	2281.4	2281.4	2281.4	2281.4	2281.4	2281.4	2281.4	2281.4
2.5°	2370.8	2386.3	2372.0	2358.9	2352.9	2337.4	2336.2	2326.7	2320.7	2304.0
5°	2536.4	2556.6	2532.8	2506.6	2482.7	2444.6	2439.9	2412.5	2381.5	2345.7
7.5°	2723.4	2741.3	2713.9	2674.6	2632.9	2569.7	2568.5	2518.5	2469.6	2408.9
10°	2886.6	2910.4	2873.5	2819.9	2767.5	2696.0	2687.7	2630.5	2568.5	2489.9
12.5°	3030.8	3047.4	3011.7	2946.2	2885.4	2813.9	2803.2	2740.1	2671.0	2581.6
15°	3145.1	3166.6	3118.9	3048.6	2984.3	2914.0	2904.5	2847.3	2778.2	2684.1
17.5°	3220.2	3238.1	3189.2	3110.6	3048.6	2990.3	2983.1	2935.5	2874.7	2779.4
20°	3248.8	3267.8	3216.6	3136.8	3079.6	3034.3	3030.8	2996.2	2954.5	2867.6
22.5°	3277.4	3295.2	3228.5	3145.1	3095.1	3066.5	3065.3	3042.7	3026.0	2954.5
25°	3392.9	3397.7	3308.3	3188.0	3116.5	3091.5	3090.3	3089.1	3096.3	3040.3
27.5°	3493.0	3491.8	3415.6	3302.4	3191.6	3139.2	3138.0	3149.9	3172.5	3126.1
30°	3639.5	3626.4	3535.9	3418.0	3316.7	3235.7	3228.5	3217.8	3235.7	3198.7
32.5°	3950.5	3908.8	3762.2	3552.6	3420.3	3358.4	3348.9	3282.1	3289.3	3266.7
35°	4396.0	4341.2	4145.9	3807.5	3549.0	3460.8	3456.1	3371.5	3357.2	3336.9
37.5°	4926.2	4858.3	4630.7	4176.8	3770.6	3580.0	3572.8	3496.6	3438.2	3416.8
40°	5458.7	5372.9	5184.7	4627.2	4097.0	3778.9	3756.3	3640.7	3574.0	3538.3
42.5°	5975.8	5904.3	5743.4	5132.3	4499.7	4069.6	4019.6	3821.8	3771.8	3738.4
45°	6433.2	6368.9	6251.0	5672.0	4971.5	4465.1	4416.3	4093.4	4078.0	4078.0
47.5°	6804.9	6790.6	6665.5	6222.4	5527.8	4915.5	4830.9	4471.1	4512.8	4577.1
50°	7217.1	7177.8	7044.4	6764.4	6181.9	5431.3	5362.2	4934.5	5090.6	5266.9
52.5°	7596.0	7617.4	7468.5	7329.1	6920.5	6006.7	5885.2	5481.3	5818.5	6110.4
55°	7985.5	7986.7	7945.0	7926.0	7694.9	6642.9	6509.5	6139.0	6675.1	7037.2
57.5°	8351.3	8353.7	8415.6	8583.6	8593.1	7376.8	7225.5	6946.7	7626.9	7996.3
60°	8677.7	8694.4	8863.6	9256.7	9383.0	8217.9	8074.9	7901.0	8611.0	8982.7
62.5°	8787.3	8848.1	9224.5	9783.3	10163.3	9249.6	9109.0	9005.3	9645.1	9990.6
65°	8601.5	8740.9	9468.8	10218.1	10966.3	10475.4	10336.1	10222.9	10719.7	11044.9
67.5°	8145.2	8325.1	9454.5	10674.4	11940.8	11950.3	11820.5	11554.8	11871.7	11996.8
70°	6943.1	7212.4	8621.7	10844.8	13059.5	13967.3	13842.2	13158.3	13021.3	12416.1
72.5°	4473.5	4835.6	6348.6	9442.5	13308.4	15865.1	15857.9	14605.8	13384.7	11601.3
75°	1632.1	1853.7	2949.8	5926.9	11171.2	15768.6	15815.0	14358.0	12218.4	8961.2
77.5°	594.5	650.5	962.6	2277.8	6870.4	12652.0	12748.5	11478.5	8696.8	4497.3
80°	312.1	343.1	493.2	884.0	2943.8	7513.8	7665.1	6821.6	4087.5	1354.6
82.5°	172.7	187.0	276.4	480.1	1326.0	3213.0	3303.6	2694.8	1437.9	574.2
85°	92.9	98.9	129.9	262.1	648.1	1113.9	1138.9	805.3	573.0	337.1
87.5°	27.4	33.4	42.9	83.4	253.8	250.2	256.1	159.6	226.4	170.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950625
 CATALOG NUMBER: GALN-SB5A-735-U-T4W

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2281.4	0°	2281.4	2281.4	2281.4	2281.4	2281.4	2281.4	2281.4	2281.4	2281.4	2281.4
2299.3	2.5°	2292.1	2288.6	2275.5	2269.5	2262.4	2261.2	2267.1	2268.3	2269.5	2270.7
2325.5	5°	2313.6	2301.7	2289.8	2282.6	2285.0	2286.2	2298.1	2306.4	2312.4	2317.2
2374.3	7.5°	2355.3	2345.7	2325.5	2324.3	2327.9	2338.6	2354.1	2373.1	2383.9	2392.2
2437.5	10°	2417.2	2399.4	2375.5	2379.1	2386.3	2401.7	2433.9	2449.4	2467.3	2482.7
2514.9	12.5°	2480.4	2464.9	2437.5	2439.9	2451.8	2479.2	2510.2	2529.2	2541.1	2553.0
2598.3	15°	2562.6	2535.2	2505.4	2505.4	2526.8	2556.6	2570.9	2586.4	2593.5	2606.6
2687.7	17.5°	2647.2	2611.4	2572.1	2569.7	2595.9	2610.2	2618.6	2620.9	2623.3	2637.6
2774.6	20°	2731.7	2692.4	2636.4	2631.7	2637.6	2635.2	2634.0	2631.7	2635.2	2653.1
2864.0	22.5°	2815.1	2769.9	2692.4	2671.0	2654.3	2631.7	2630.5	2629.3	2631.7	2649.5
2960.5	25°	2912.8	2858.0	2754.4	2690.0	2634.0	2603.1	2606.6	2607.8	2610.2	2624.5
3060.5	27.5°	3018.9	2958.1	2811.6	2684.1	2582.8	2561.4	2555.4	2559.0	2567.3	2590.0
3160.6	30°	3124.9	3053.4	2864.0	2660.3	2518.5	2488.7	2469.6	2478.0	2504.2	2526.8
3247.6	32.5°	3221.4	3149.9	2905.7	2607.8	2436.3	2389.8	2364.8	2375.5	2401.7	2410.1
3344.1	35°	3334.6	3253.5	2923.5	2524.4	2346.9	2275.5	2242.1	2226.6	2239.7	2231.4
3457.3	37.5°	3460.8	3376.3	2921.2	2414.8	2242.1	2159.9	2113.4	2055.1	2027.7	1999.1
3624.1	40°	3647.9	3526.4	2892.6	2282.6	2112.2	2037.2	1953.8	1854.9	1793.0	1737.0
3893.3	42.5°	3902.8	3734.8	2840.2	2137.3	1965.7	1895.4	1782.2	1666.7	1569.0	1476.1
4301.9	45°	4282.9	4007.7	2774.6	1982.4	1807.3	1738.2	1615.5	1485.6	1374.8	1255.7
4882.1	47.5°	4830.9	4374.6	2712.7	1806.1	1640.5	1577.3	1466.5	1346.2	1215.2	1099.6
5720.8	50°	5583.8	4901.2	2655.5	1634.5	1476.1	1428.4	1340.3	1217.5	1085.3	992.4
6703.7	52.5°	6541.6	5617.2	2631.7	1468.9	1322.4	1304.5	1234.2	1119.9	994.8	916.1
7849.7	55°	7641.2	6473.7	2631.7	1310.5	1187.8	1193.7	1144.9	1038.8	930.4	860.1
9031.5	57.5°	8763.5	7341.0	2584.0	1163.9	1073.4	1098.4	1067.4	974.5	876.8	804.2
10274.1	60°	9797.6	8067.7	2391.0	1030.5	972.1	1011.4	991.2	911.4	792.2	731.5
11313.0	62.5°	10592.2	8477.6	2019.3	924.5	888.7	934.0	923.3	828.0	776.8	751.7
12165.9	65°	10990.1	8410.9	1544.0	830.4	818.4	888.7	866.1	862.5	822.0	793.4
12443.5	67.5°	10745.9	7836.6	1119.9	761.3	777.9	847.0	934.0	948.3	873.3	817.3
11662.0	70°	9674.9	6797.8	833.9	695.7	726.7	848.2	1065.1	992.4	856.6	791.0
9353.2	72.5°	7360.1	5069.1	646.9	626.6	660.0	854.2	1123.4	972.1	808.9	874.4
5826.8	75°	4209.0	2783.0	519.4	542.1	576.6	798.2	1093.6	919.7	772.0	803.0
2308.8	77.5°	1604.7	1069.8	428.9	458.7	463.4	696.9	1046.0	916.1	735.1	717.2
692.2	80°	556.4	418.2	355.0	364.5	358.6	619.5	1003.1	797.0	601.6	538.5
285.9	82.5°	227.5	208.5	281.2	269.2	254.9	481.3	810.1	651.7	492.0	434.8
138.2	85°	98.9	132.2	185.8	163.2	147.7	333.6	649.3	551.6	415.8	358.6
45.3	87.5°	20.3	50.0	78.6	73.9	76.2	222.8	461.0	392.0	294.3	220.4
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>
2281.4
2275.5
2319.5
2394.6
2479.2
2557.8
2611.4
2642.4
2660.3
2661.5
2643.6
2612.6
2551.8
2439.9
2257.6
2016.9
1740.5
1467.7
1241.4
1086.5
986.4
910.2
853.0
792.2
722.0
743.4
783.9
807.7
780.3
867.3
803.0
654.0
520.6
430.1
357.4
172.7
0.0

F REPORT)