

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: P953733

Luminaire Tested: **GALN-SB7A-940-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953733
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-SB7A-940-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 90 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23072 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

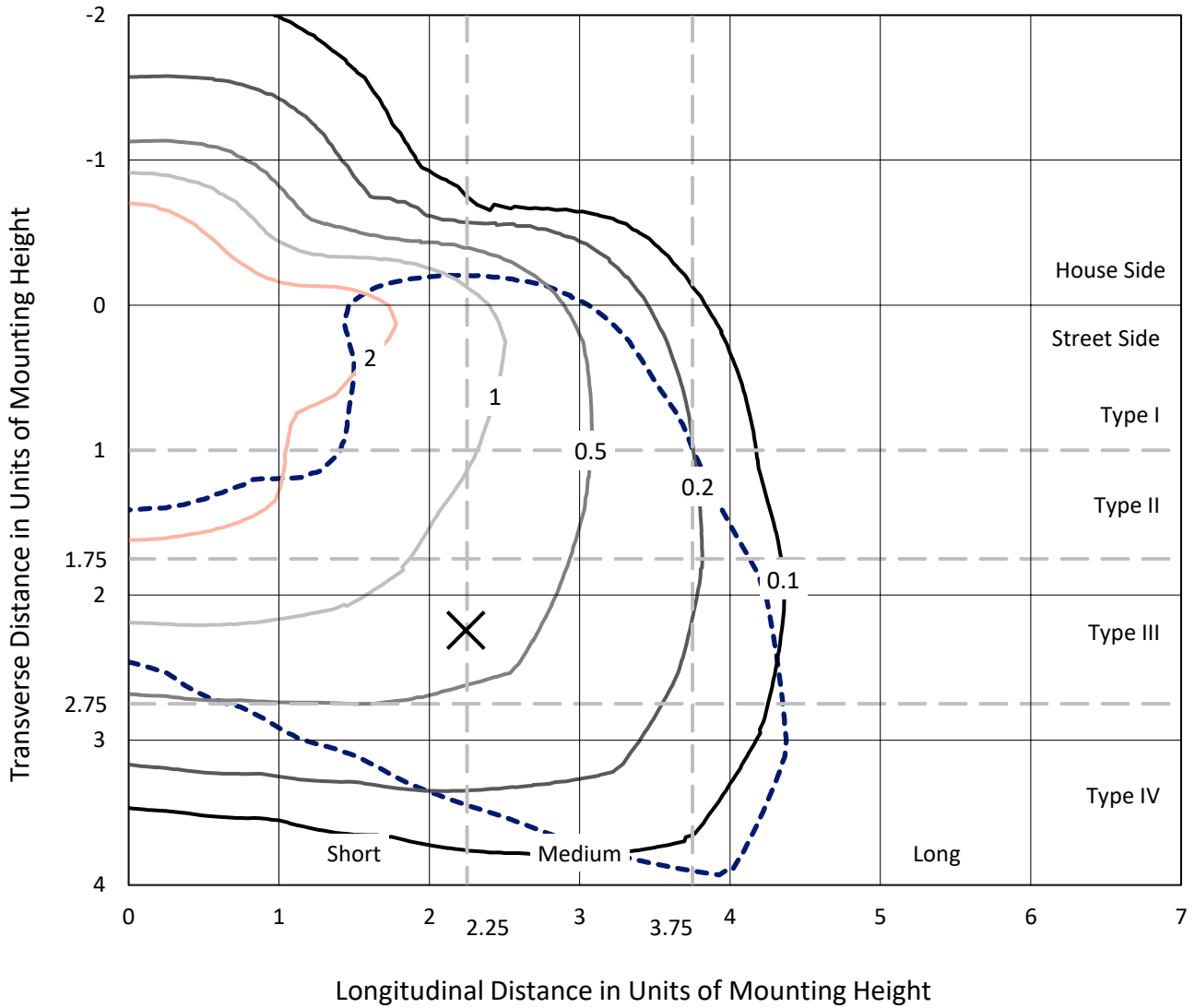
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P953733
 CATALOG NUMBER: GALN-SB7A-940-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

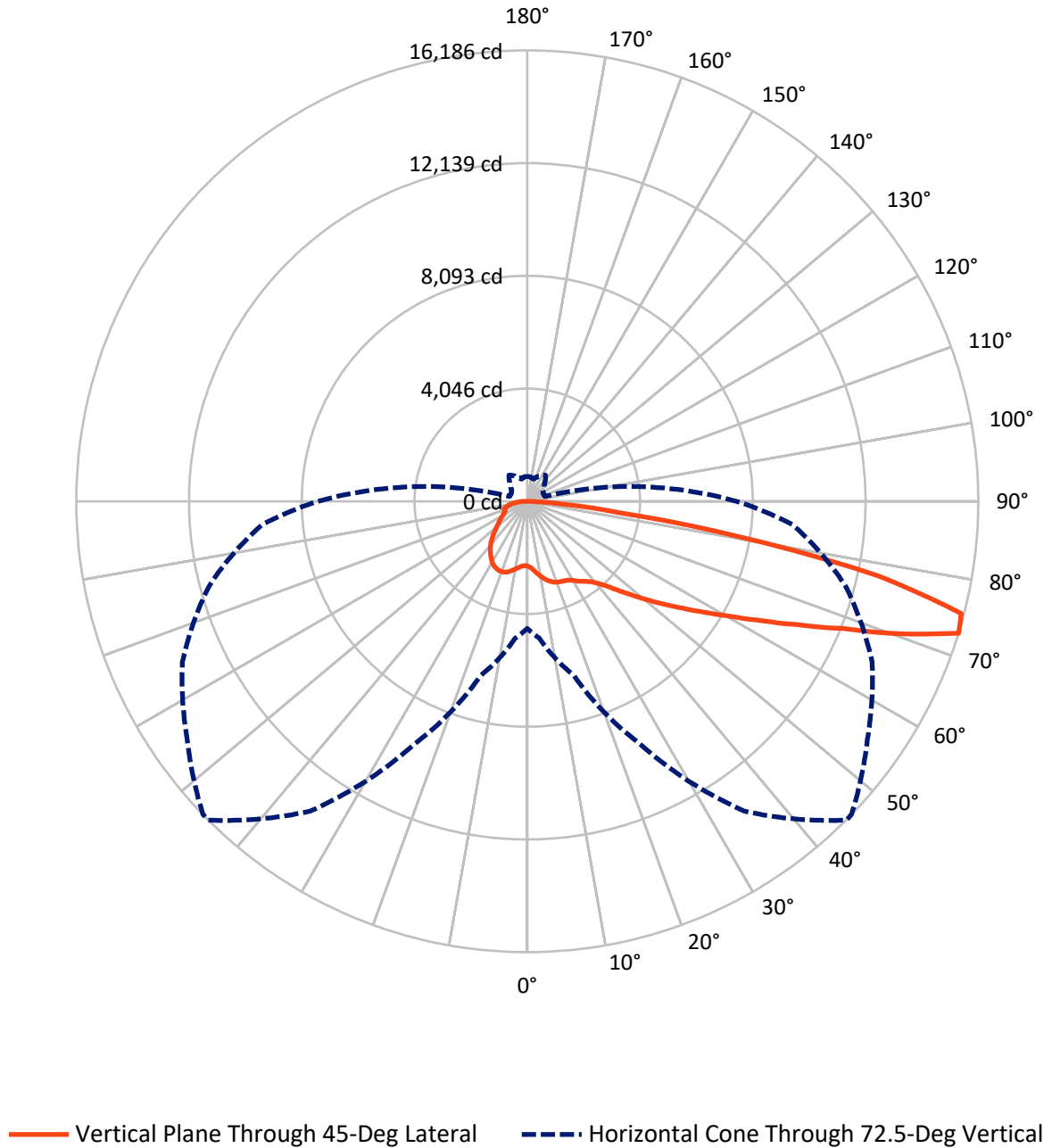
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P953733
CATALOG NUMBER: GALN-SB7A-940-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P953733
 CATALOG NUMBER: GALN-SB7A-940-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5215.8	0.0	5215.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	17856.2	0.0	17856.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	23072.0	0.0	23072.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.9	1.0
10°-20°	789.8	3.4
20°-30°	1374.0	6.0
30°-40°	1969.7	8.5
40°-50°	2773.4	12.0
50°-60°	4248.0	18.4
60°-70°	6153.9	26.7
70°-80°	4914.3	21.3
80°-90°	612.1	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°	23072.0	100.0
0°-180°	23072.0	100.0

Coefficient of Utilization



REPORT NUMBER: P953733

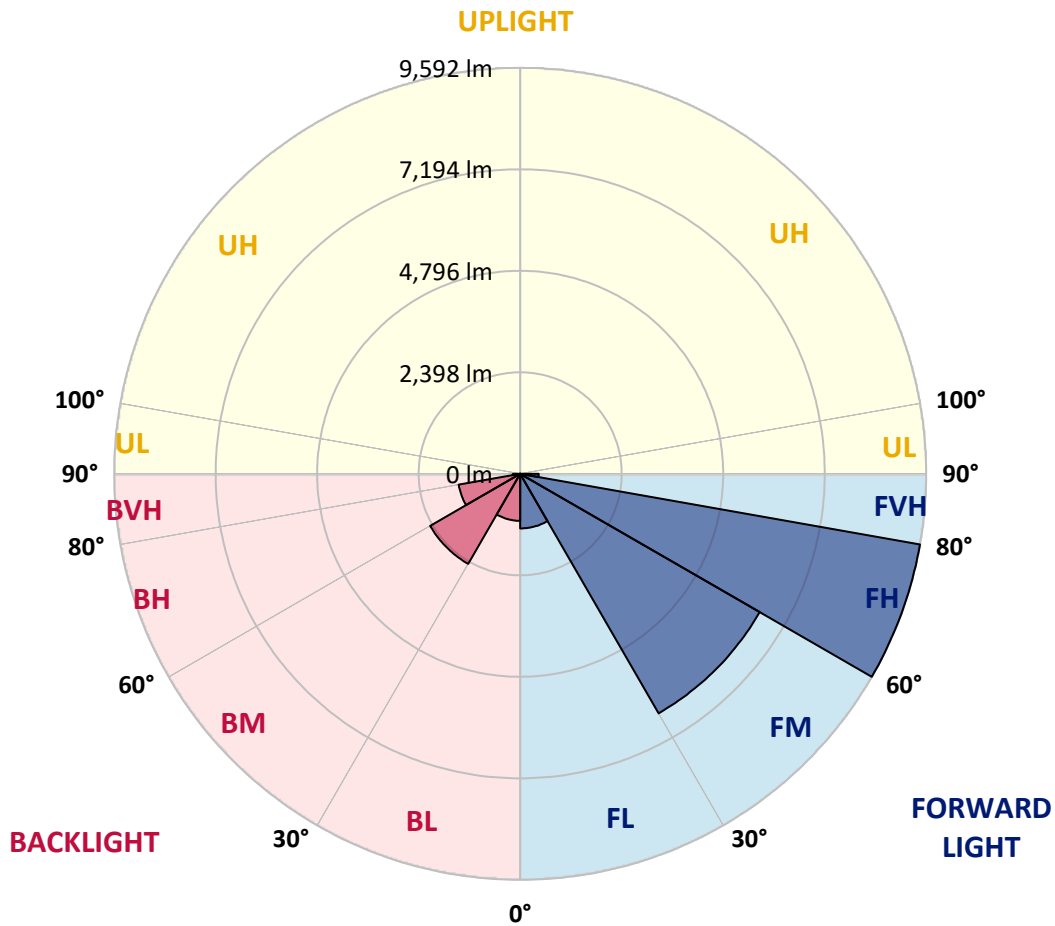
CATALOG NUMBER: GALN-SB7A-940-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1290.2	5.6			
FM (30°-60°)	6535.2	28.3			
FH (60°-80°)	9591.7	41.6			G4/12000
FVH (80°-90°)	439.1	1.9			G3/500
BL (0°-30°)	1110.5	4.8	B3/2500		
BM (30°-60°)	2455.9	10.6	B2/2500		
BH (60°-80°)	1476.4	6.4	B3/2500		G3/2500
BVH (80°-90°)	173.0	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: P953733

CATALOG NUMBER: GALN-SB7A-940-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2327.5	2327.5	2327.5	2327.5	2327.5	2327.5	2327.5	2327.5	2327.5	2327.5
2.5°	2418.7	2434.5	2419.9	2406.5	2400.4	2384.6	2383.4	2373.7	2367.6	2350.6
5°	2587.6	2608.3	2584.0	2557.2	2532.9	2494.0	2489.2	2461.2	2429.6	2393.1
7.5°	2778.4	2796.7	2768.7	2728.6	2686.1	2621.6	2620.4	2569.4	2519.6	2457.6
10°	2944.9	2969.3	2931.6	2876.9	2823.4	2750.5	2742.0	2683.6	2620.4	2540.2
12.5°	3092.0	3109.0	3072.6	3005.7	2943.7	2870.8	2859.9	2795.4	2725.0	2633.8
15°	3208.7	3230.6	3182.0	3110.2	3044.6	2972.9	2963.2	2904.8	2834.3	2738.3
17.5°	3285.3	3303.5	3253.7	3173.4	3110.2	3050.7	3043.4	2994.8	2932.8	2835.6
20°	3314.4	3333.9	3281.6	3200.2	3141.8	3095.7	3092.0	3056.8	3014.2	2925.5
22.5°	3343.6	3361.8	3293.8	3208.7	3157.6	3128.5	3127.3	3104.2	3087.1	3014.2
25°	3461.5	3466.4	3375.2	3252.4	3179.5	3154.0	3152.8	3151.6	3158.9	3101.7
27.5°	3563.6	3562.4	3484.6	3369.1	3256.1	3202.6	3201.4	3213.6	3236.6	3189.2
30°	3713.1	3699.7	3607.3	3487.0	3383.7	3301.1	3293.8	3282.8	3301.1	3263.4
32.5°	4030.3	3987.8	3838.3	3624.4	3489.5	3426.2	3416.5	3348.5	3355.8	3332.7
35°	4484.9	4429.0	4229.6	3884.5	3620.7	3530.8	3525.9	3439.6	3425.0	3404.4
37.5°	5025.7	4956.5	4724.3	4261.2	3846.8	3652.3	3645.0	3567.2	3507.7	3485.8
40°	5569.0	5481.5	5289.5	4720.7	4179.8	3855.3	3832.2	3714.3	3646.2	3609.8
42.5°	6096.5	6023.6	5859.5	5236.0	4590.6	4151.9	4100.8	3899.0	3848.0	3814.0
45°	6563.2	6497.6	6377.3	5786.6	5071.9	4555.4	4505.5	4176.2	4160.4	4160.4
47.5°	6942.4	6927.9	6800.2	6348.1	5639.5	5014.8	4928.5	4561.4	4604.0	4669.6
50°	7363.0	7322.9	7186.7	6901.1	6306.8	5541.1	5470.6	5034.2	5193.5	5373.3
52.5°	7749.5	7771.4	7619.4	7477.2	7060.3	6128.1	6004.1	5592.1	5936.1	6233.9
55°	8146.9	8148.1	8105.6	8086.1	7850.4	6777.1	6641.0	6263.0	6810.0	7179.4
57.5°	8520.0	8522.5	8585.7	8757.1	8766.8	7525.8	7371.5	7087.1	7781.1	8157.9
60°	8853.1	8870.1	9042.7	9443.8	9572.6	8383.9	8238.1	8060.6	8785.0	9164.2
62.5°	8964.9	9026.9	9410.9	9981.0	10368.7	9436.5	9293.0	9187.3	9840.0	10192.5
65°	8775.3	8917.5	9660.1	10424.6	11187.9	10687.1	10544.9	10429.5	10936.3	11268.1
67.5°	8309.8	8493.3	9645.5	10890.1	12182.1	12191.8	12059.3	11788.3	12111.6	12239.2
70°	7083.4	7358.1	8795.9	11063.9	13323.4	14249.5	14121.9	13424.2	13284.5	12667.0
72.5°	4563.9	4933.4	6476.9	9633.4	13577.4	16185.7	16178.4	14901.0	13655.2	11835.7
75°	1665.1	1891.2	3009.4	6046.7	11396.9	16087.2	16134.6	14648.2	12465.3	9142.3
77.5°	606.5	663.6	982.1	2323.9	7009.3	12907.7	13006.1	11710.5	8872.5	4588.2
80°	318.4	350.0	503.2	901.8	3003.3	7665.6	7820.0	6959.5	4170.1	1381.9
82.5°	176.2	190.8	282.0	489.8	1352.8	3278.0	3370.3	2749.3	1467.0	585.8
85°	94.8	100.9	132.5	267.4	661.2	1136.4	1161.9	821.6	584.6	344.0
87.5°	28.0	34.0	43.8	85.1	258.9	255.2	261.3	162.9	230.9	173.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P953733
 CATALOG NUMBER: GALN-SB7A-940-U-T4W

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2327.5	0°	2327.5	2327.5	2327.5	2327.5	2327.5	2327.5	2327.5	2327.5	2327.5	2327.5
2345.7	2.5°	2338.5	2334.8	2321.4	2315.4	2308.1	2306.9	2312.9	2314.1	2315.4	2316.6
2372.5	5°	2360.3	2348.2	2336.0	2328.7	2331.2	2332.4	2344.5	2353.0	2359.1	2364.0
2422.3	7.5°	2402.9	2393.1	2372.5	2371.3	2374.9	2385.9	2401.7	2421.1	2432.0	2440.5
2486.7	10°	2466.1	2447.8	2423.5	2427.2	2434.5	2450.3	2483.1	2498.9	2517.1	2532.9
2565.7	12.5°	2530.5	2514.7	2486.7	2489.2	2501.3	2529.3	2560.9	2580.3	2592.5	2604.6
2650.8	15°	2614.4	2586.4	2556.0	2556.0	2577.9	2608.3	2622.9	2638.7	2646.0	2659.3
2742.0	17.5°	2700.6	2664.2	2624.1	2621.6	2648.4	2663.0	2671.5	2673.9	2676.3	2690.9
2830.7	20°	2786.9	2746.8	2689.7	2684.8	2690.9	2688.5	2687.3	2684.8	2688.5	2706.7
2921.9	22.5°	2872.0	2825.8	2746.8	2725.0	2707.9	2684.8	2683.6	2682.4	2684.8	2703.1
3020.3	25°	2971.7	2915.8	2810.0	2744.4	2687.3	2655.7	2659.3	2660.5	2663.0	2677.6
3122.4	27.5°	3079.9	3017.9	2868.4	2738.3	2635.0	2613.1	2607.1	2610.7	2619.2	2642.3
3224.5	30°	3188.0	3115.1	2921.9	2714.0	2569.4	2539.0	2519.6	2528.1	2554.8	2577.9
3313.2	32.5°	3286.5	3213.6	2964.4	2660.5	2485.5	2438.1	2412.6	2423.5	2450.3	2458.8
3411.7	35°	3401.9	3319.3	2982.6	2575.5	2394.4	2321.4	2287.4	2271.6	2285.0	2276.5
3527.1	37.5°	3530.8	3444.5	2980.2	2463.6	2287.4	2203.5	2156.1	2096.6	2068.6	2039.5
3697.3	40°	3721.6	3597.6	2951.0	2328.7	2154.9	2078.4	1993.3	1892.4	1829.2	1772.1
3972.0	42.5°	3981.7	3810.3	2897.5	2180.5	2005.4	1933.7	1818.3	1700.4	1600.7	1505.9
4388.9	45°	4369.4	4088.6	2830.7	2022.4	1843.8	1773.3	1648.1	1515.6	1402.6	1281.0
4980.8	47.5°	4928.5	4463.0	2767.5	1842.6	1673.6	1609.2	1496.2	1373.4	1239.7	1121.8
5836.4	50°	5696.6	5000.2	2709.2	1667.5	1505.9	1457.3	1367.3	1242.2	1107.2	1012.4
6839.1	52.5°	6673.8	5730.7	2684.8	1498.6	1349.1	1330.9	1259.2	1142.5	1014.9	934.7
8008.4	55°	7795.7	6604.6	2684.8	1337.0	1211.8	1217.8	1168.0	1059.8	949.2	877.5
9214.0	57.5°	8940.6	7489.4	2636.2	1187.5	1095.1	1120.6	1089.0	994.2	894.5	820.4
10481.7	60°	9995.6	8230.8	2439.3	1051.3	991.8	1031.9	1011.2	929.8	808.2	746.3
11541.6	62.5°	10806.2	8648.9	2060.1	943.2	906.7	952.9	941.9	844.7	792.4	766.9
12411.8	65°	11212.2	8580.8	1575.2	847.1	835.0	906.7	883.6	880.0	838.6	809.5
12695.0	67.5°	10963.0	7995.0	1142.5	776.6	793.7	864.2	952.9	967.5	890.9	833.8
11897.7	70°	9870.4	6935.1	850.8	709.8	741.4	865.4	1086.6	1012.4	873.9	807.0
9542.2	72.5°	7508.8	5171.6	660.0	639.3	673.3	871.5	1146.1	991.8	825.3	892.1
5944.6	75°	4294.1	2839.2	529.9	553.0	588.3	814.3	1115.7	938.3	787.6	819.2
2355.5	77.5°	1637.2	1091.4	437.5	467.9	472.8	711.0	1067.1	934.7	749.9	731.7
706.2	80°	567.6	426.6	362.2	371.9	365.8	632.0	1023.4	813.1	613.8	549.4
291.7	82.5°	232.1	212.7	286.8	274.7	260.1	491.0	826.5	664.8	502.0	443.6
141.0	85°	100.9	134.9	189.6	166.5	150.7	340.3	662.4	562.7	424.2	365.8
46.2	87.5°	20.7	51.0	80.2	75.4	77.8	227.3	470.4	399.9	300.2	224.9
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>
2327.5
2321.4
2366.4
2443.0
2529.3
2609.5
2664.2
2695.8
2714.0
2715.2
2697.0
2665.4
2603.4
2489.2
2303.2
2057.7
1775.7
1497.4
1266.5
1108.5
1006.4
928.6
870.2
808.2
736.5
758.4
799.7
824.0
796.1
<i>884.8</i>
819.2
667.3
531.1
438.8
364.6
176.2
0.0

F REPORT)