

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: P950016

Luminaire Tested: **GALN-SB4C-830-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950016
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-SB4C-830-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26917 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

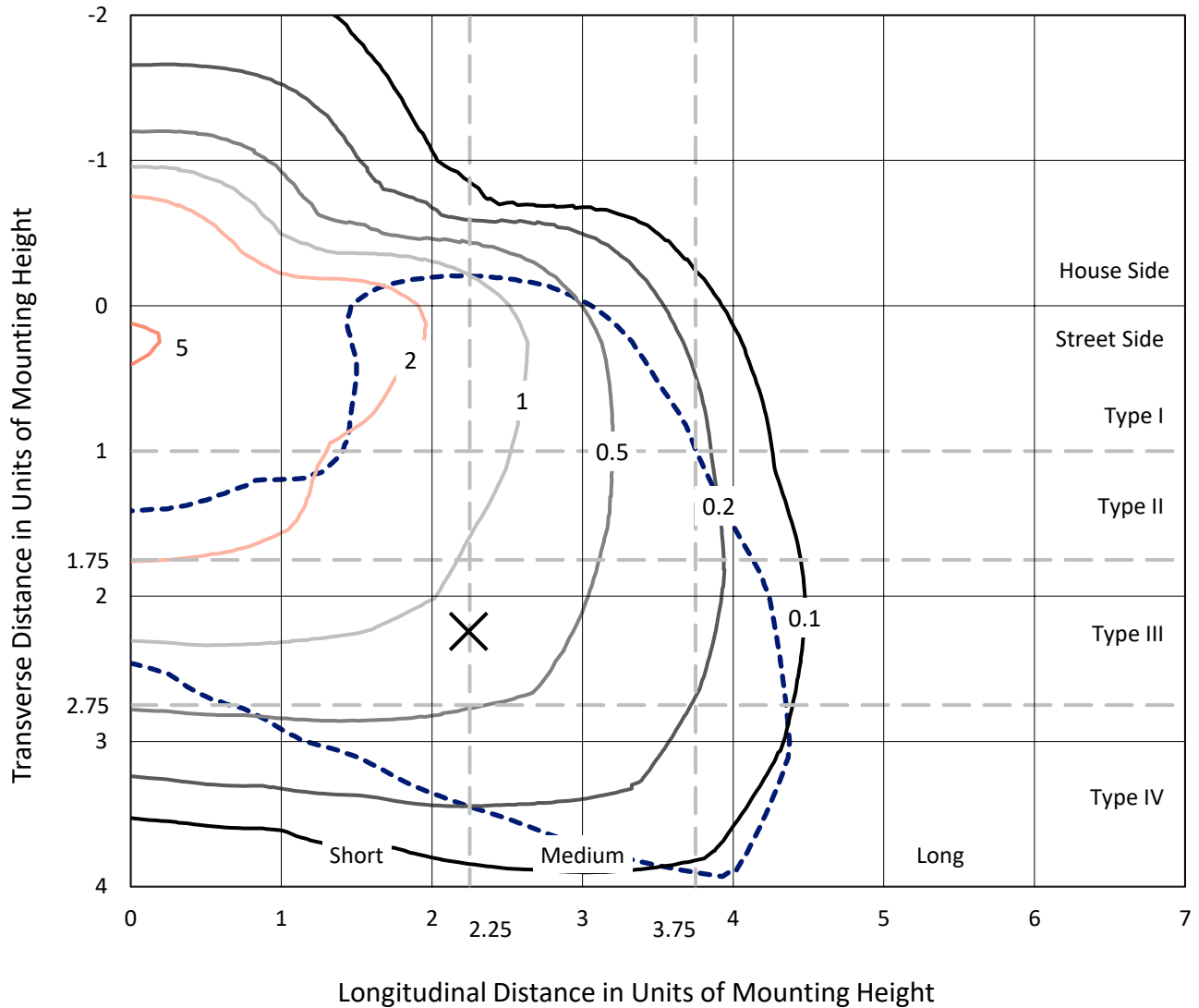
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950016
 CATALOG NUMBER: GALN-SB4C-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

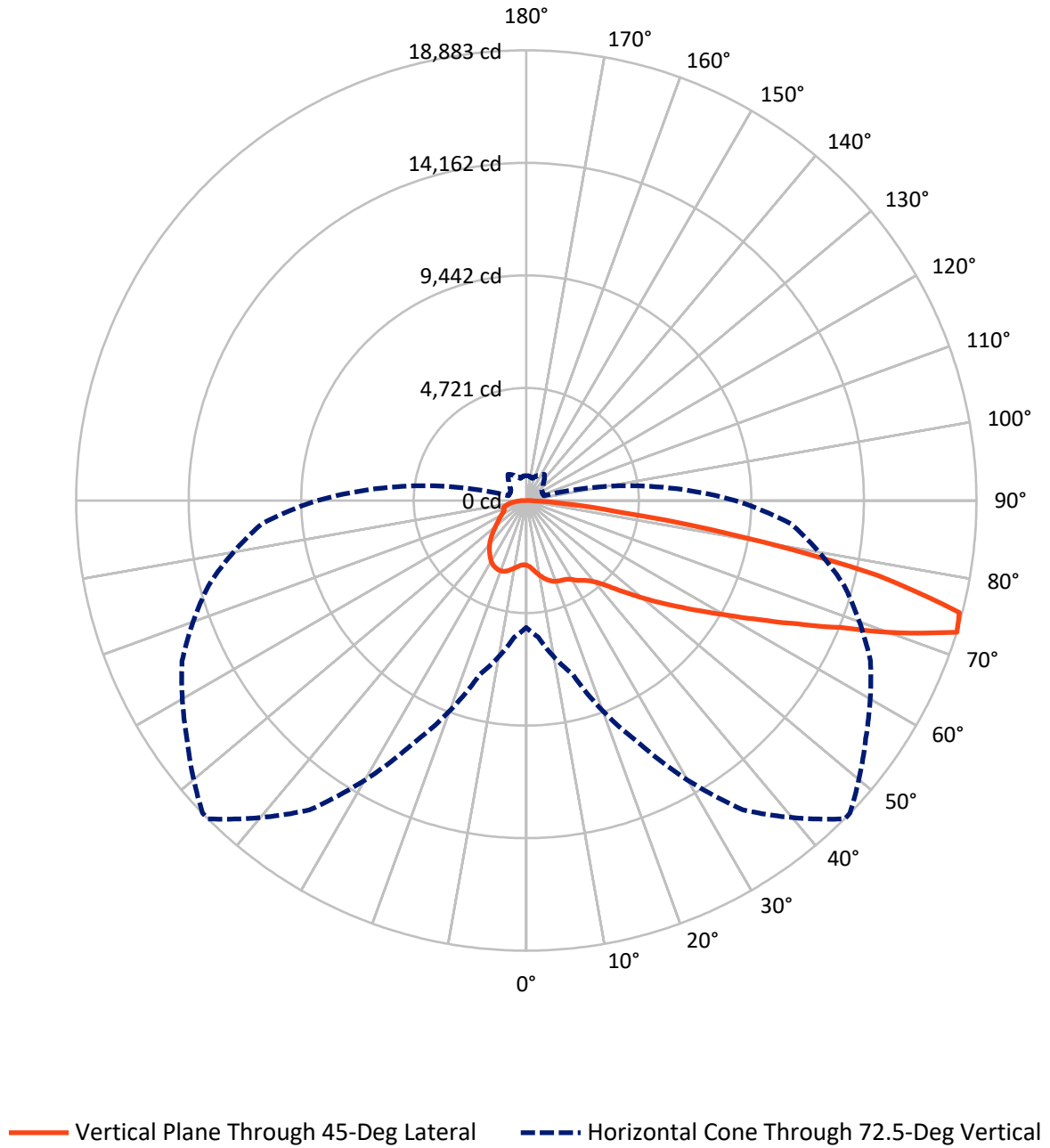
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P950016
CATALOG NUMBER: GALN-SB4C-830-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P950016
 CATALOG NUMBER: GALN-SB4C-830-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6085.0	0.0	6085.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	20832.0	0.0	20832.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	26917.0	0.0	26917.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.4	1.0
10°-20°	921.5	3.4
20°-30°	1602.9	6.0
30°-40°	2297.9	8.5
40°-50°	3235.6	12.0
50°-60°	4956.0	18.4
60°-70°	7179.5	26.7
70°-80°	5733.2	21.3
80°-90°	714.0	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°	26917.0	100.0
0°-180°	26917.0	100.0



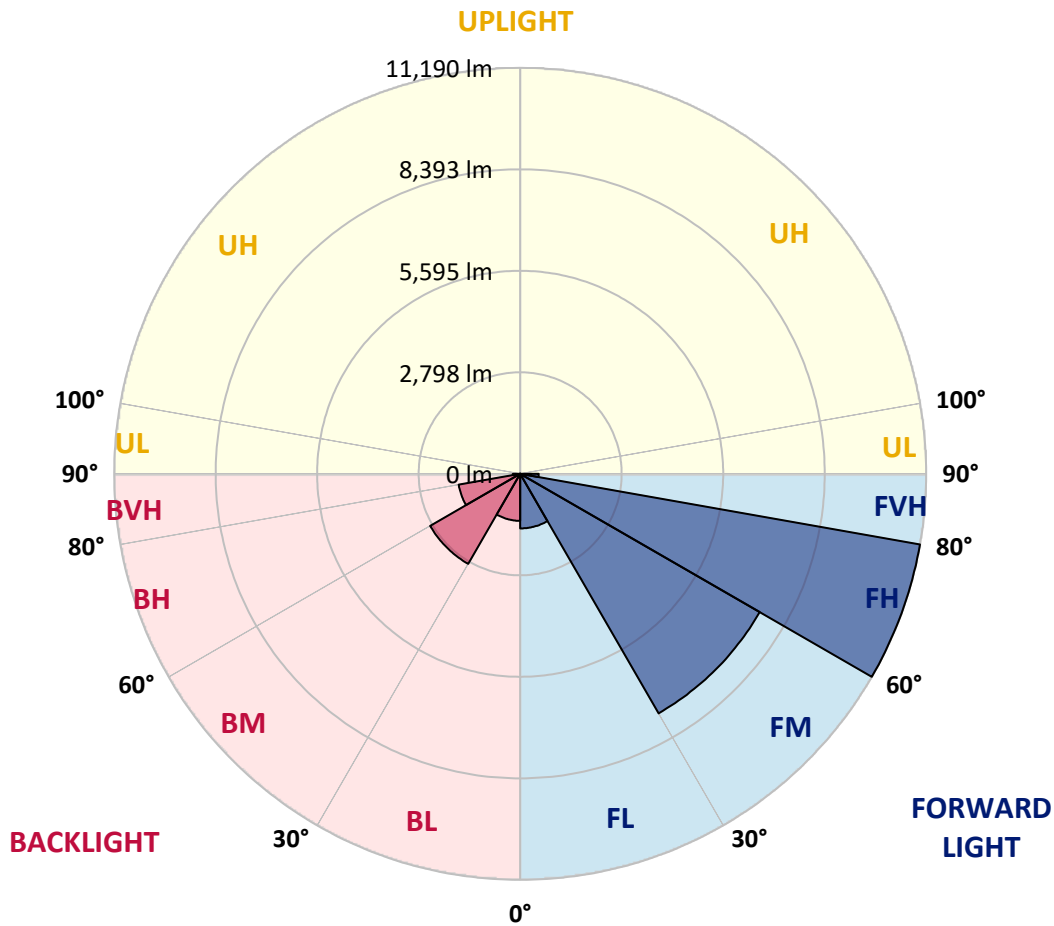
REPORT NUMBER: P950016
 CATALOG NUMBER: GALN-SB4C-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1505.2	5.6			
FM (30°-60°)	7624.3	28.3			
FH (60°-80°)	11190.2	41.6			G4/12000
FVH (80°-90°)	512.3	1.9			G4/750
BL (0°-30°)	1295.5	4.8	B3/2500		
BM (30°-60°)	2865.2	10.6	B3/5000		
BH (60°-80°)	1722.5	6.4	B3/2500		G3/2500
BVH (80°-90°)	201.8	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: P950016
 CATALOG NUMBER: GALN-SB4C-830-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2715.4	2715.4	2715.4	2715.4	2715.4	2715.4	2715.4	2715.4	2715.4	2715.4
2.5°	2821.7	2840.2	2823.2	2807.6	2800.5	2782.0	2780.6	2769.3	2762.2	2742.3
5°	3018.8	3043.0	3014.6	2983.4	2955.0	2909.7	2904.0	2871.4	2834.5	2792.0
7.5°	3241.5	3262.7	3230.1	3183.3	3133.7	3058.5	3057.1	2997.6	2939.4	2867.1
10°	3435.7	3464.1	3420.1	3356.3	3293.9	3208.9	3198.9	3130.9	3057.1	2963.5
12.5°	3607.3	3627.2	3584.6	3506.6	3434.3	3349.2	3336.5	3261.3	3179.1	3072.7
15°	3743.4	3768.9	3712.2	3628.6	3552.0	3468.3	3457.0	3388.9	3306.7	3194.7
17.5°	3832.8	3854.0	3795.9	3702.3	3628.6	3559.1	3550.6	3493.9	3421.5	3308.1
20°	3866.8	3889.5	3828.5	3733.5	3665.4	3611.6	3607.3	3566.2	3516.6	3413.0
22.5°	3900.8	3922.1	3842.7	3743.4	3683.9	3649.8	3648.4	3621.5	3601.6	3516.6
25°	4038.4	4044.0	3937.7	3794.5	3709.4	3679.6	3678.2	3676.8	3685.3	3618.6
27.5°	4157.5	4156.1	4065.3	3930.6	3798.7	3736.3	3734.9	3749.1	3776.0	3720.7
30°	4331.9	4316.3	4208.5	4068.1	3947.6	3851.2	3842.7	3829.9	3851.2	3807.2
32.5°	4702.0	4652.3	4477.9	4228.4	4071.0	3997.2	3985.9	3906.5	3915.0	3888.1
35°	5232.3	5167.1	4934.5	4531.8	4224.1	4119.2	4113.5	4012.8	3995.8	3971.7
37.5°	5863.3	5782.5	5511.6	4971.4	4487.9	4261.0	4252.5	4161.7	4092.2	4066.7
40°	6497.1	6395.0	6171.0	5507.4	4876.4	4497.8	4470.8	4333.3	4253.9	4211.4
42.5°	7112.5	7027.4	6836.0	6108.6	5355.7	4843.8	4784.2	4548.8	4489.3	4449.6
45°	7657.0	7580.4	7440.1	6750.9	5917.2	5314.5	5256.4	4872.1	4853.7	4853.7
47.5°	8099.4	8082.4	7933.5	7406.0	6579.4	5850.5	5749.8	5321.6	5371.2	5447.8
50°	8590.0	8543.2	8384.4	8051.2	7357.8	6464.5	6382.3	5873.2	6059.0	6268.8
52.5°	9040.9	9066.5	8889.2	8723.3	8237.0	7149.4	7004.7	6524.1	6925.3	7272.7
55°	9504.6	9506.0	9456.4	9433.7	9158.6	7906.6	7747.8	7306.8	7944.9	8375.9
57.5°	9939.9	9942.8	10016.5	10216.4	10227.8	8780.0	8600.0	8268.1	9077.8	9517.4
60°	10328.5	10348.3	10549.7	11017.6	11167.9	9781.1	9611.0	9403.9	10249.0	10691.4
62.5°	10458.9	10531.2	10979.3	11644.3	12096.7	11009.1	10841.8	10718.4	11479.8	11891.0
65°	10237.7	10403.6	11270.0	12161.9	13052.4	12468.2	12302.3	12167.6	12758.8	13145.9
67.5°	9694.6	9908.7	11253.0	12705.0	14212.3	14223.6	14069.0	13752.8	14130.0	14278.9
70°	8263.9	8584.4	10261.8	12907.7	15543.7	16624.2	16475.3	15661.4	15498.3	14778.0
72.5°	5324.5	5755.5	7556.3	11238.8	15840.1	18883.0	18874.5	17384.2	15930.8	13808.1
75°	1942.6	2206.4	3510.9	7054.4	13296.3	18768.2	18823.5	17089.3	14542.6	10665.9
77.5°	707.6	774.2	1145.7	2711.1	8177.4	15058.8	15173.6	13662.1	10351.1	5352.8
80°	371.5	408.4	587.0	1052.1	3503.8	8943.1	9123.2	8119.3	4865.0	1612.2
82.5°	205.6	222.6	329.0	571.4	1578.2	3824.2	3932.0	3207.4	1711.5	683.5
85°	110.6	117.7	154.6	312.0	771.4	1325.8	1355.6	958.5	682.0	401.3
87.5°	32.6	39.7	51.0	99.3	302.0	297.8	304.9	190.0	269.4	202.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950016
 CATALOG NUMBER: GALN-SB4C-830-U-T4W

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2715.4	0°	2715.4	2715.4	2715.4	2715.4	2715.4	2715.4	2715.4	2715.4	2715.4	2715.4
2736.7	2.5°	2728.2	2723.9	2708.3	2701.2	2692.7	2691.3	2698.4	2699.8	2701.2	2702.6
2767.9	5°	2753.7	2739.5	2725.3	2716.8	2719.7	2721.1	2735.3	2745.2	2752.3	2757.9
2826.0	7.5°	2803.3	2792.0	2767.9	2766.4	2770.7	2783.5	2801.9	2824.6	2837.3	2847.3
2901.2	10°	2877.0	2855.8	2827.4	2831.7	2840.2	2858.6	2896.9	2915.3	2936.6	2955.0
2993.3	12.5°	2952.2	2933.8	2901.2	2904.0	2918.2	2950.8	2987.7	3010.3	3024.5	3038.7
3092.6	15°	3050.0	3017.4	2982.0	2982.0	3007.5	3043.0	3060.0	3078.4	3086.9	3102.5
3198.9	17.5°	3150.7	3108.2	3061.4	3058.5	3089.7	3106.8	3116.7	3119.5	3122.4	3139.4
3302.4	20°	3251.4	3204.6	3138.0	3132.3	3139.4	3136.5	3135.1	3132.3	3136.5	3157.8
3408.8	22.5°	3350.6	3296.8	3204.6	3179.1	3159.2	3132.3	3130.9	3129.4	3132.3	3153.6
3523.6	25°	3466.9	3401.7	3278.3	3201.8	3135.1	3098.3	3102.5	3103.9	3106.8	3123.8
3642.7	27.5°	3593.1	3520.8	3346.4	3194.7	3074.1	3048.6	3041.5	3045.8	3055.7	3082.7
3761.9	30°	3719.3	3634.2	3408.8	3166.3	2997.6	2962.1	2939.4	2949.4	2980.6	3007.5
3865.4	32.5°	3834.2	3749.1	3458.4	3103.9	2899.7	2844.4	2814.7	2827.4	2858.6	2868.5
3980.2	35°	3968.9	3872.5	3479.7	3004.7	2793.4	2708.3	2668.6	2650.2	2665.8	2655.8
4114.9	37.5°	4119.2	4018.5	3476.8	2874.2	2668.6	2570.8	2515.5	2446.0	2413.4	2379.3
4313.4	40°	4341.8	4197.2	3442.8	2716.8	2514.1	2424.7	2325.5	2207.8	2134.0	2067.4
4633.9	42.5°	4645.3	4445.3	3380.4	2543.8	2339.6	2256.0	2121.3	1983.7	1867.5	1756.9
5120.3	45°	5097.6	4770.0	3302.4	2359.5	2151.1	2068.8	1922.8	1768.2	1636.3	1494.5
5810.8	47.5°	5749.8	5206.8	3228.7	2149.6	1952.5	1877.4	1745.5	1602.3	1446.3	1308.8
6809.1	50°	6646.0	5833.5	3160.6	1945.4	1756.9	1700.1	1595.2	1449.2	1291.8	1181.2
7978.9	52.5°	7786.0	6685.7	3132.3	1748.3	1573.9	1552.7	1469.0	1332.9	1184.0	1090.4
9343.0	55°	9094.8	7705.2	3132.3	1559.8	1413.7	1420.8	1362.7	1236.5	1107.4	1023.8
10749.6	57.5°	10430.5	8737.5	3075.6	1385.4	1277.6	1307.4	1270.5	1159.9	1043.6	957.1
12228.5	60°	11661.3	9602.5	2845.9	1226.5	1157.1	1203.9	1179.7	1084.7	942.9	870.6
13465.0	62.5°	12607.1	10090.2	2403.4	1100.3	1057.8	1111.7	1098.9	985.5	924.5	894.7
14480.3	65°	13080.7	10010.8	1837.7	988.3	974.1	1057.8	1030.9	1026.6	978.4	944.4
14810.6	67.5°	12790.0	9327.4	1332.9	906.1	925.9	1008.2	1111.7	1128.7	1039.4	972.7
13880.5	70°	11515.3	8090.9	992.6	828.1	865.0	1009.6	1267.7	1181.2	1019.5	941.5
11132.4	72.5°	8760.2	6033.4	770.0	745.8	785.6	1016.7	1337.1	1157.1	962.8	1040.8
6935.3	75°	5009.7	3312.4	618.2	645.2	686.3	950.0	1301.7	1094.7	918.8	955.7
2748.0	77.5°	1910.0	1273.3	510.5	545.9	551.6	829.5	1245.0	1090.4	874.9	853.6
823.8	80°	662.2	497.7	422.6	433.9	426.8	737.3	1193.9	948.6	716.1	640.9
340.3	82.5°	270.8	248.1	334.6	320.5	303.4	572.9	964.2	775.6	585.6	517.6
164.5	85°	117.7	157.4	221.2	194.3	175.8	397.0	772.8	656.5	494.9	426.8
53.9	87.5°	24.1	59.6	93.6	87.9	90.7	265.2	548.8	466.5	350.2	262.3
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

180°
2715.4
2708.3
2760.8
2850.1
2950.8
3044.4
3108.2
3145.0
3166.3
3167.7
3146.5
3109.6
3037.3
2904.0
2687.0
2400.6
2071.6
1746.9
1477.5
1293.2
1174.1
1083.3
1015.3
942.9
859.3
884.8
933.0
961.4
928.8
1032.3
955.7
778.5
619.7
511.9
425.4
205.6
0.0

F REPORT)