

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: P950519

Luminaire Tested: **GALN-SB4D-940-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-940-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22764 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

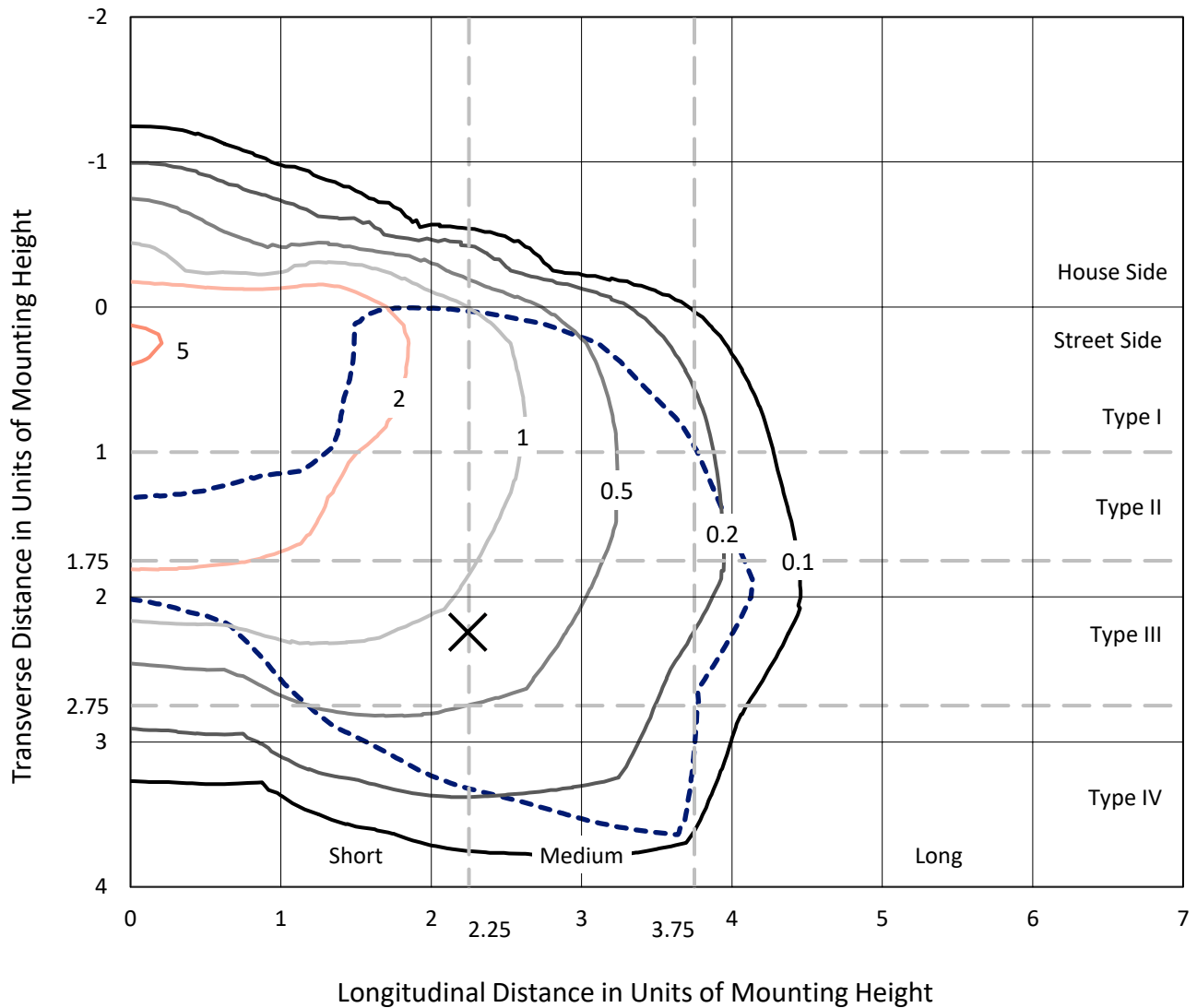
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950519
 CATALOG NUMBER: GALN-SB4D-940-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

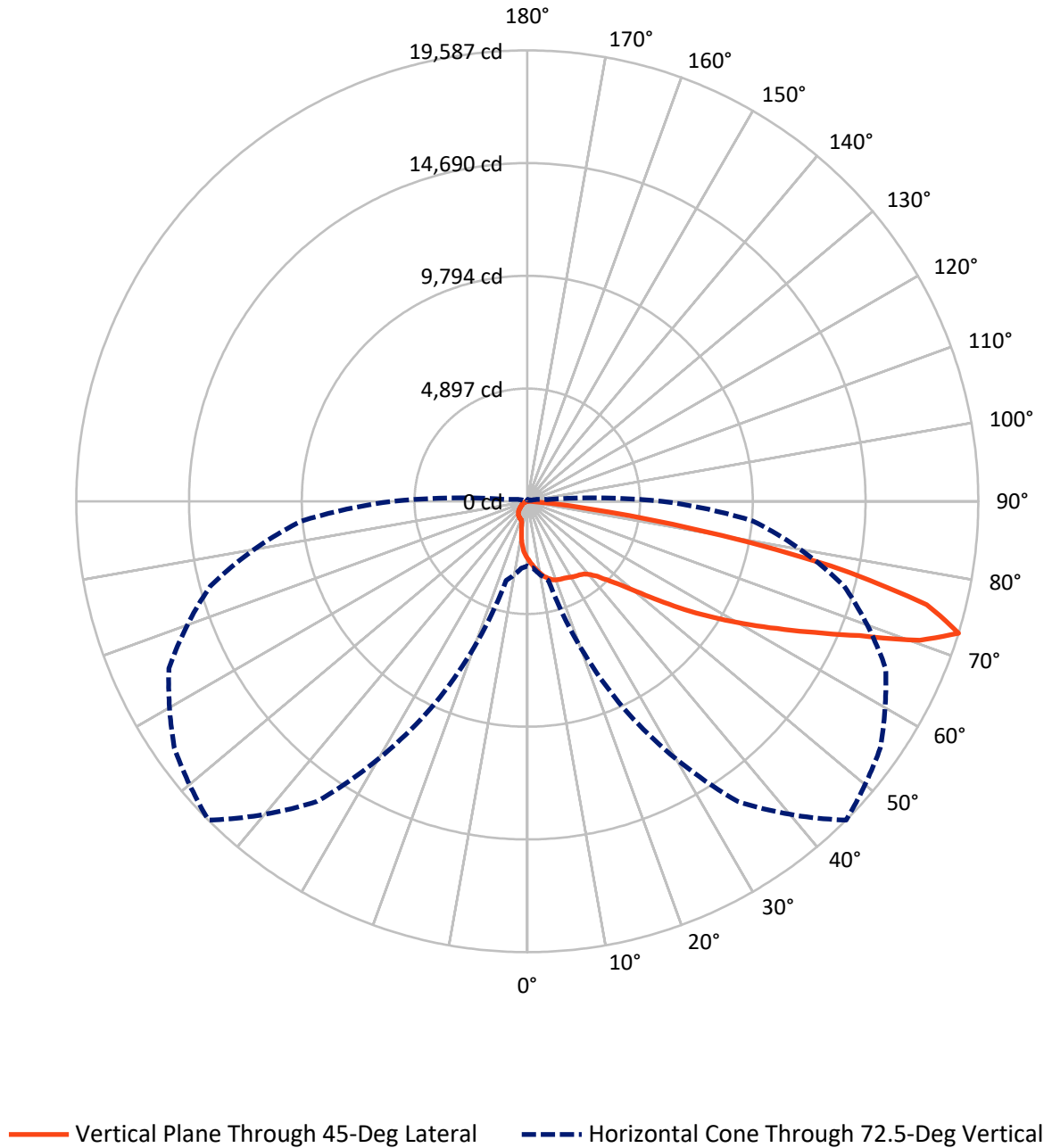
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P950519
CATALOG NUMBER: GALN-SB4D-940-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P950519
 CATALOG NUMBER: GALN-SB4D-940-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2391.9	0.0	2391.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	20372.1	0.0	20372.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	22764.0	0.0	22764.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.0	1.0
10°-20°	686.7	3.0
20°-30°	1127.7	5.0
30°-40°	1599.3	7.0
40°-50°	2643.5	11.6
50°-60°	4748.8	20.9
60°-70°	6594.0	29.0
70°-80°	4783.1	21.0
80°-90°	345.8	1.5
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°	22764.0	100.0
0°-180°	22764.0	100.0

Coefficient of Utilization



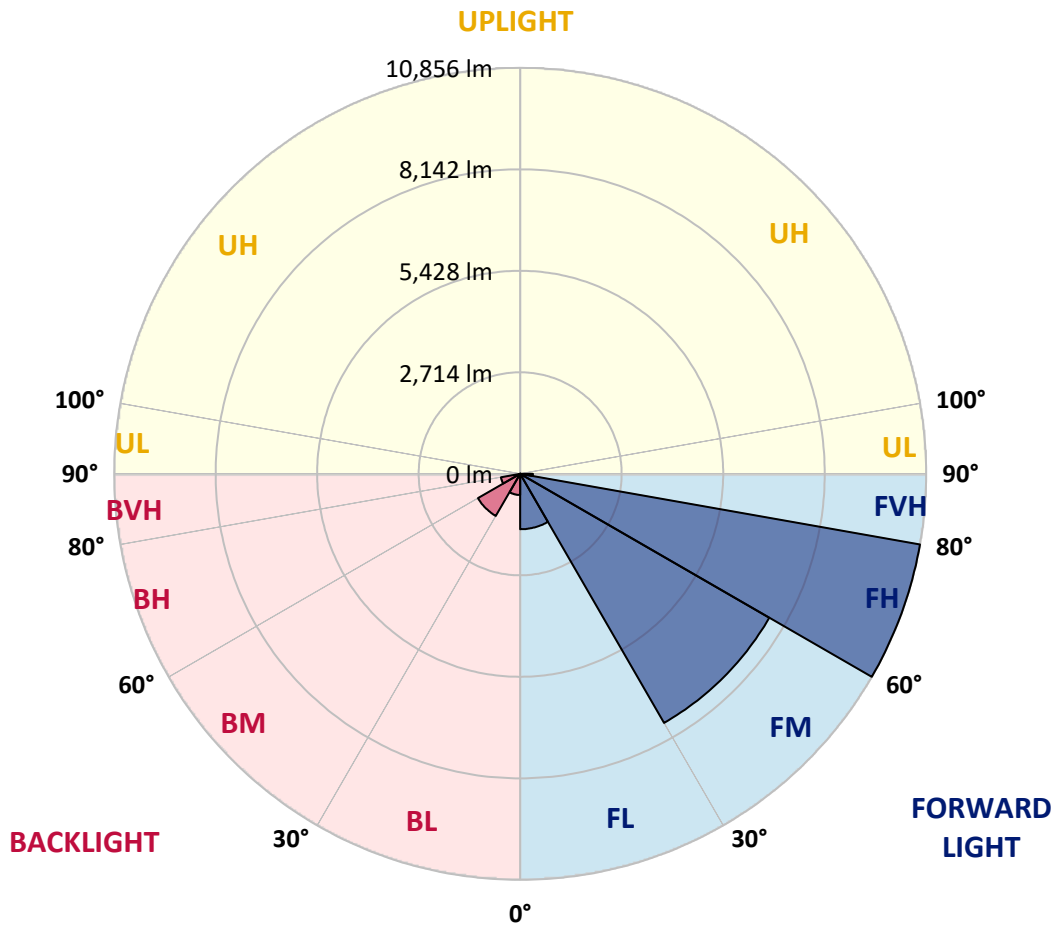
REPORT NUMBER: P950519
 CATALOG NUMBER: GALN-SB4D-940-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1482.8	6.5			
FM (30°-60°)	7690.9	33.8			
FH (60°-80°)	10855.5	47.7			G4/12000
FVH (80°-90°)	342.9	1.5			G3/500
BL (0°-30°)	566.5	2.5	B2/1000		
BM (30°-60°)	1300.8	5.7	B2/2500		
BH (60°-80°)	521.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	2.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



REPORT NUMBER: P950519
 CATALOG NUMBER: GALN-SB4D-940-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	2493.8	2493.8	2493.8	2493.8	2493.8	2493.8	2493.8	2493.8	2493.8	2493.8
2.5°	2723.8	2728.5	2725.4	2706.7	2675.6	2658.5	2649.2	2618.1	2597.9	2562.2
5°	2974.0	2992.6	2981.7	2944.4	2885.4	2843.4	2831.0	2767.3	2709.8	2643.0
7.5°	3239.7	3249.0	3228.8	3180.6	3101.4	3029.9	3019.0	2930.5	2838.8	2736.2
10°	3469.6	3480.5	3449.4	3379.5	3289.4	3200.8	3185.3	3087.4	2978.6	2852.8
12.5°	3662.3	3673.2	3632.8	3548.9	3449.4	3357.8	3342.2	3239.7	3120.0	2980.2
15°	3808.4	3828.6	3774.2	3684.1	3576.8	3485.2	3477.4	3376.4	3259.9	3104.5
17.5°	3893.8	3914.0	3862.7	3754.0	3662.3	3584.6	3575.3	3491.4	3382.6	3233.5
20°	3907.8	3926.4	3872.1	3777.3	3701.1	3639.0	3634.3	3573.7	3494.5	3351.5
22.5°	3865.8	3889.2	3839.4	3763.3	3710.5	3677.8	3671.6	3637.4	3592.4	3471.2
25°	3822.3	3841.0	3803.7	3736.9	3708.9	3705.8	3710.5	3704.3	3694.9	3592.4
27.5°	3819.2	3839.4	3797.5	3733.8	3718.2	3750.9	3755.5	3785.1	3792.8	3702.7
30°	3845.6	3859.6	3819.2	3752.4	3744.7	3819.2	3820.8	3873.6	3886.0	3795.9
32.5°	3903.1	3918.7	3878.3	3780.4	3769.5	3873.6	3878.3	3948.2	3968.4	3895.4
35°	4038.3	4057.0	4010.4	3858.1	3819.2	3924.9	3938.9	4021.2	4061.6	4001.0
37.5°	4375.5	4321.1	4257.4	4015.0	3932.7	4005.7	4029.0	4125.3	4196.8	4126.9
40°	5213.0	5042.1	4843.2	4282.3	4131.5	4178.2	4196.8	4293.1	4391.0	4322.7
42.5°	6470.0	6268.0	5947.9	4897.6	4431.4	4454.7	4468.7	4552.6	4690.9	4636.5
45°	7590.3	7517.3	7191.0	5947.9	4992.4	4877.4	4894.5	4938.0	5141.5	5121.3
47.5°	8451.1	8409.2	8157.4	7153.7	5940.2	5394.8	5443.0	5463.2	5756.8	5828.3
50°	9113.0	9097.5	8872.2	8225.8	7178.5	6157.7	6174.8	6131.3	6571.0	6748.1
52.5°	9737.6	9790.5	9624.2	9221.8	8500.8	7156.8	7153.7	6948.6	7542.1	7809.4
55°	10301.7	10320.3	10337.4	10238.0	9830.9	8294.2	8264.6	7929.0	8668.6	8945.2
57.5°	10831.5	10839.3	10991.6	11195.1	11215.3	9515.5	9461.1	9058.6	9899.2	10096.6
60°	11187.3	11223.1	11544.7	12110.3	12357.3	10775.6	10746.1	10335.9	11151.6	11243.3
62.5°	10674.6	10892.1	11703.2	12825.0	13435.7	12172.4	12158.5	11773.1	12469.2	12394.6
65°	8640.7	9008.9	10435.3	13308.3	14493.8	13732.5	13752.7	13342.5	13822.6	13580.2
67.5°	6044.3	6432.7	8120.1	13347.1	15676.3	15564.4	15680.9	15037.7	15259.8	14716.0
70°	4179.7	4380.2	5478.7	12511.2	16597.7	18087.8	18084.6	17119.7	16689.3	15233.4
72.5°	2810.8	2914.9	3558.2	9925.7	15920.2	19587.2	19497.0	18710.8	17171.0	14246.8
75°	1185.5	1261.7	1647.0	5578.1	12595.1	17919.9	17676.0	16535.5	15256.7	11218.4
77.5°	376.0	408.6	649.5	1996.6	6937.7	13469.9	13211.9	10326.5	10225.5	5627.9
80°	178.7	208.2	365.1	801.8	2730.0	7326.2	7290.4	4684.7	4398.8	1519.6
82.5°	77.7	91.7	202.0	428.8	1221.3	2613.5	2666.3	1594.2	1319.2	576.5
85°	24.9	32.6	93.2	197.3	515.9	649.5	641.7	379.1	531.4	313.9
87.5°	0.0	0.0	31.1	45.1	52.8	37.3	42.0	32.6	147.6	87.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950519
 CATALOG NUMBER: GALN-SB4D-940-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2493.8	0°	2493.8	2493.8	2493.8	2493.8	2493.8	2493.8	2493.8	2493.8	2493.8	2493.8
2524.9	2.5°	2506.3	2481.4	2437.9	2397.5	2361.8	2326.0	2304.3	2273.2	2270.1	2270.1
2565.3	5°	2523.4	2483.0	2405.3	2322.9	2228.1	2138.0	2047.9	1960.9	1932.9	1912.7
2630.6	7.5°	2573.1	2509.4	2386.6	2229.7	2049.5	1852.1	1713.8	1564.7	1507.2	1476.1
2717.6	10°	2644.6	2557.6	2371.1	2096.1	1804.0	1535.2	1337.8	1176.2	1114.1	1087.7
2812.4	12.5°	2723.8	2616.6	2343.1	1929.8	1535.2	1213.5	1020.8	946.3	936.9	936.9
2925.8	15°	2818.6	2688.1	2295.0	1734.0	1253.9	960.2	891.9	895.0	904.3	910.5
3036.1	17.5°	2916.5	2764.2	2218.8	1515.0	1005.3	863.9	865.5	870.1	877.9	884.1
3155.8	20°	3022.1	2840.3	2117.8	1281.9	862.4	835.9	840.6	845.3	851.5	854.6
3267.6	22.5°	3135.6	2911.8	1998.2	1053.5	814.2	812.6	814.2	818.9	826.6	826.6
3398.2	25°	3256.8	2991.1	1861.4	887.2	789.3	789.3	792.4	795.5	801.8	801.8
3524.0	27.5°	3381.1	3064.1	1716.9	800.2	767.6	766.0	766.0	770.7	773.8	775.3
3648.3	30°	3517.8	3149.5	1572.4	781.6	750.5	742.7	738.1	741.2	744.3	745.8
3778.8	32.5°	3657.6	3231.9	1443.5	789.3	733.4	719.4	703.9	700.8	700.8	707.0
3914.0	35°	3813.0	3322.0	1344.0	815.7	724.1	685.2	660.4	646.4	647.9	657.3
4075.6	37.5°	3999.5	3430.8	1271.0	839.1	717.9	646.4	606.0	588.9	578.0	588.9
4297.8	40°	4243.4	3590.8	1218.2	857.7	710.1	601.3	546.9	519.0	498.8	505.0
4642.7	42.5°	4602.3	3842.5	1198.0	859.2	693.0	548.5	486.3	449.0	419.5	421.1
5161.7	45°	5105.8	4240.3	1302.1	839.1	655.7	491.0	422.6	372.9	354.3	349.6
5937.1	47.5°	5795.7	4819.9	1542.9	797.1	601.3	435.1	360.5	318.5	304.5	296.8
6954.8	50°	6720.2	5564.1	1810.2	750.5	546.9	382.2	309.2	282.8	273.5	265.7
8162.1	52.5°	7792.3	6319.3	2029.3	703.9	492.6	335.6	276.6	261.0	253.3	247.1
9327.4	55°	8775.8	6839.8	2016.8	654.1	439.7	298.3	253.3	243.9	234.6	228.4
10331.2	57.5°	9388.0	6912.8	1662.6	599.8	379.1	268.8	231.5	225.3	214.4	206.7
11199.8	60°	9669.3	6496.4	1165.3	528.3	318.5	240.8	208.2	205.1	191.1	180.2
12021.7	62.5°	9720.6	5722.6	776.9	439.7	265.7	214.4	184.9	180.2	161.6	142.9
12689.9	65°	9512.3	4616.3	537.6	343.4	226.9	186.5	158.5	149.2	129.0	110.3
12848.3	67.5°	8853.5	3241.2	374.5	247.1	192.7	147.6	125.9	122.7	107.2	91.7
12040.4	70°	7646.2	1847.5	250.2	184.9	152.3	101.0	99.4	102.6	87.0	74.6
9837.1	72.5°	5862.5	845.3	155.4	135.2	104.1	68.4	79.2	80.8	66.8	55.9
6137.5	75°	3451.0	362.0	97.9	87.0	52.8	45.1	57.5	59.0	45.1	35.7
2243.7	77.5°	1174.7	136.7	62.2	51.3	26.4	24.9	37.3	37.3	24.9	14.0
450.6	80°	267.3	51.3	31.1	20.2	12.4	10.9	12.4	10.9	6.2	1.6
138.3	82.5°	76.1	20.2	12.4	7.8	4.7	4.7	1.6	0.0	0.0	0.0
48.2	85°	21.8	9.3	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
17.1	87.5°	9.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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>
2493.8
2277.9
1922.0
1480.8
1087.7
936.9
910.5
884.1
856.1
829.7
803.3
776.9
748.9
711.6
661.9
585.8
501.9
414.9
343.4
292.1
264.1
245.5
225.3
205.1
177.1
133.6
104.1
87.0
68.4
49.7
31.1
10.9
0.0
0.0
0.0
0.0
0.0

F REPORT)