

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: P950513

Luminaire Tested: **GALN-SB4D-940-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950513
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
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-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25022 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

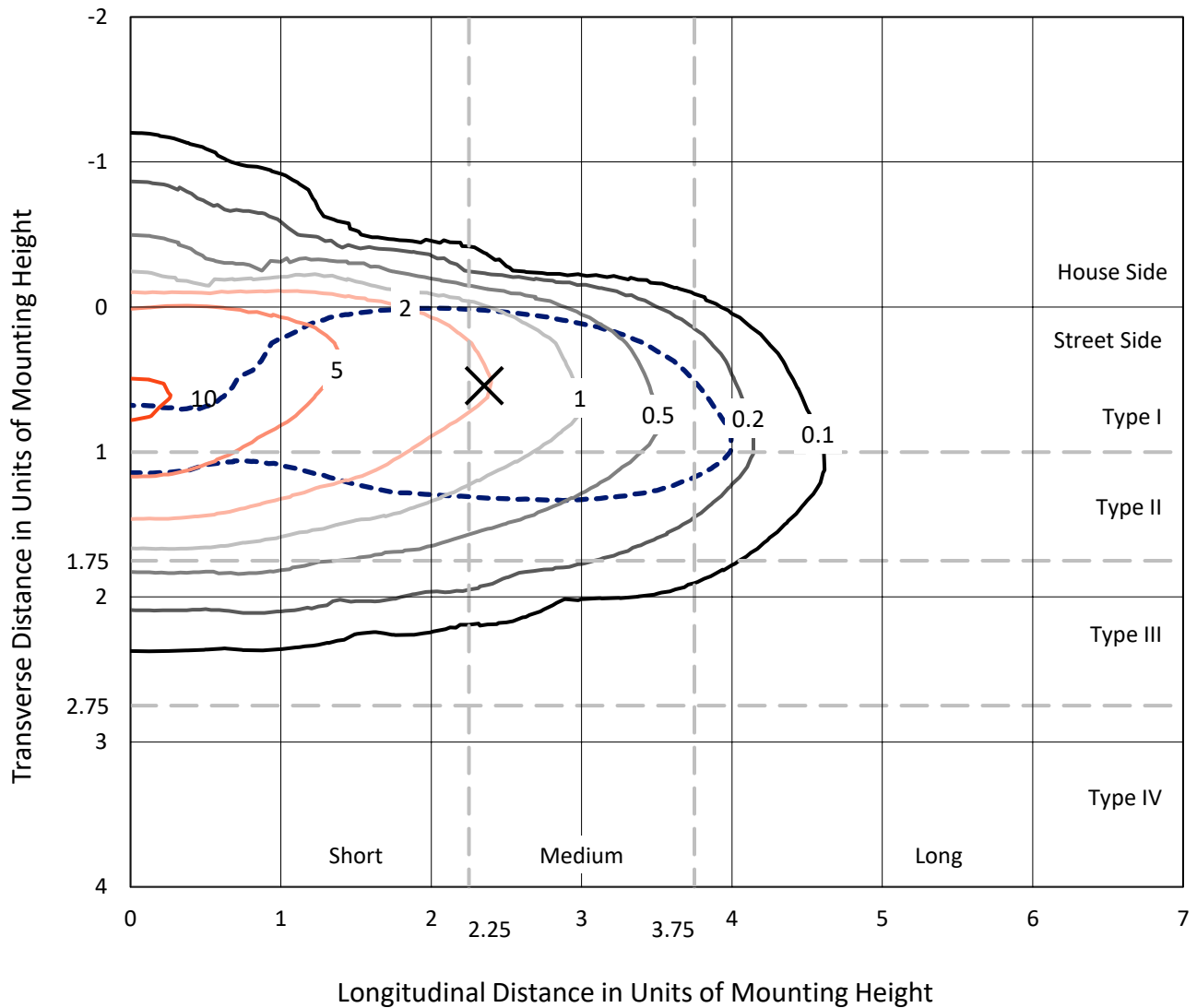
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950513
 CATALOG NUMBER: GALN-SB4D-940-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

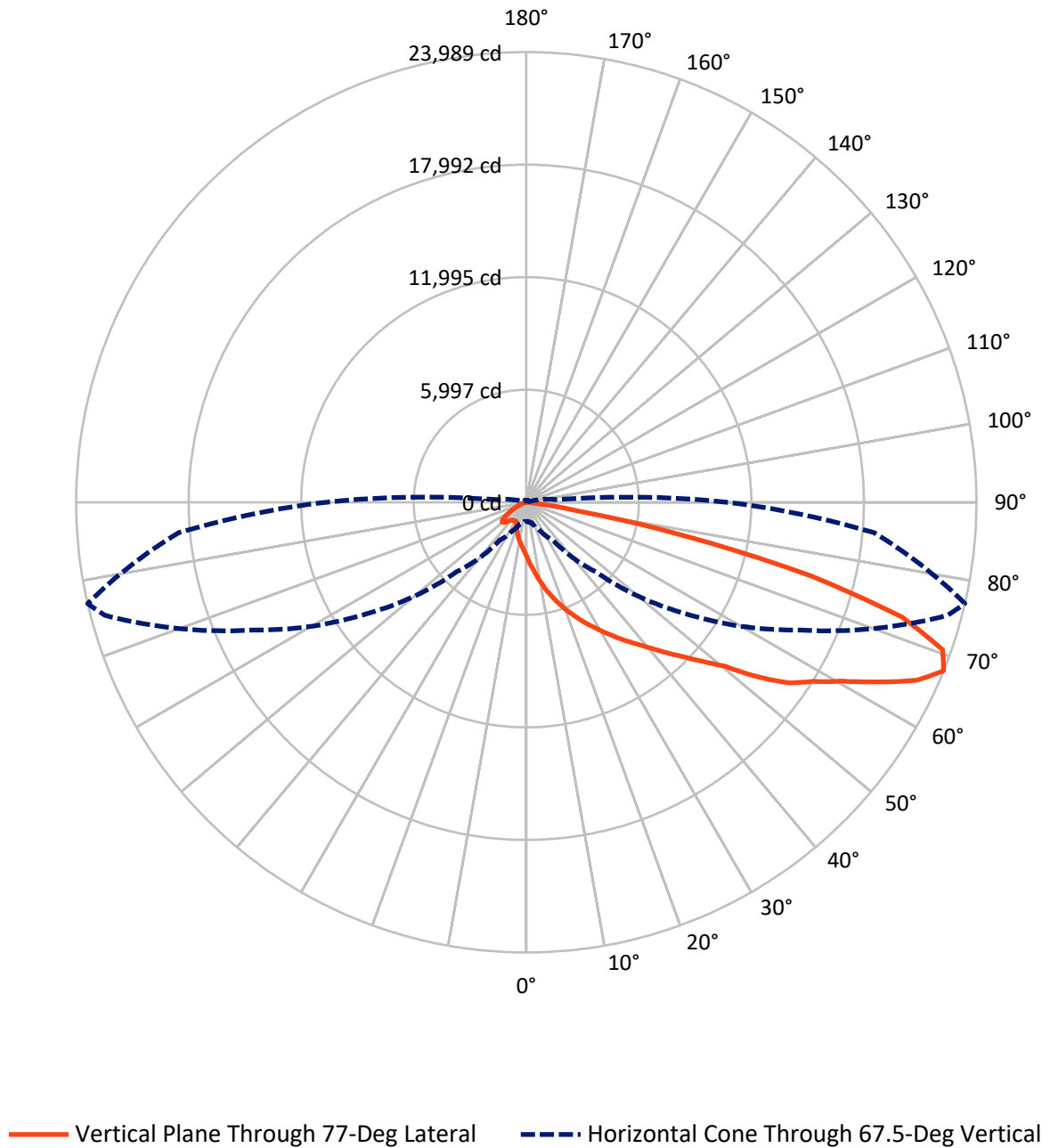
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P950513
CATALOG NUMBER: GALN-SB4D-940-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P950513
 CATALOG NUMBER: GALN-SB4D-940-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1840.9	0.0	1840.9
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	23181.1	0.0	23181.1
	% Fixture	92.6	0.0	92.6
Total	Lumens	25022.0	0.0	25022.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.5	1.2
10°-20°	1031.3	4.1
20°-30°	1990.2	8.0
30°-40°	3455.0	13.8
40°-50°	5016.5	20.0
50°-60°	5760.8	23.0
60°-70°	5001.5	20.0
70°-80°	2355.7	9.4
80°-90°	116.5	0.5
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°	25022.0	100.0
0°-180°	25022.0	100.0

Coefficient of Utilization



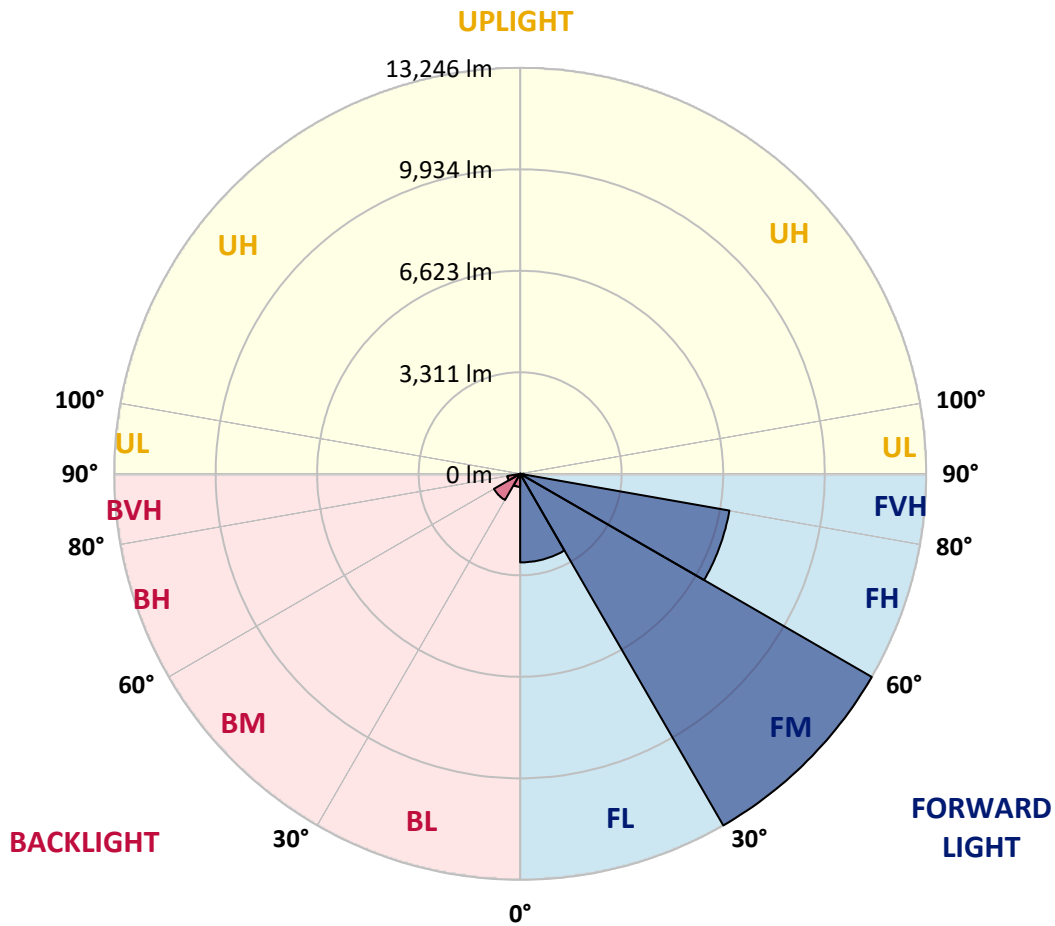
REPORT NUMBER: P950513
 CATALOG NUMBER: GALN-SB4D-940-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2889.8	11.5			
FM (30°-60°)	13246.0	52.9			
FH (60°-80°)	6931.0	27.7			G3/7500
FVH (80°-90°)	114.4	0.5			G2/225
BL (0°-30°)	426.2	1.7	B1/500		
BM (30°-60°)	986.4	3.9	B1/1000		
BH (60°-80°)	426.2	1.7	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



REPORT NUMBER: P950513
 CATALOG NUMBER: GALN-SB4D-940-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	2885.4	2885.4	2885.4	2885.4	2885.4	2885.4	2885.4	2885.4	2885.4	2885.4
2.5°	3994.8	4019.7	3983.9	3915.6	3813.0	3746.2	3583.1	3429.2	3258.3	3203.9
5°	4869.6	4891.4	4851.0	4776.4	4639.6	4509.1	4294.7	3973.1	3639.0	3531.8
7.5°	5517.5	5530.0	5514.4	5446.1	5315.5	5167.9	4928.6	4548.0	4052.3	3934.2
10°	5983.7	6024.1	6019.4	5993.0	5906.0	5786.3	5531.5	5098.0	4515.3	4363.1
12.5°	6292.9	6337.9	6364.4	6423.4	6418.7	6342.6	6118.9	5660.5	4976.8	4798.1
15°	6383.0	6431.2	6532.2	6668.9	6790.1	6828.9	6672.0	6212.1	5484.9	5256.5
17.5°	6331.7	6406.3	6527.5	6743.5	7009.2	7184.8	7167.7	6745.0	5946.4	5685.3
20°	6445.2	6516.6	6611.4	6793.2	7102.4	7420.9	7548.4	7254.7	6404.8	6131.3
22.5°	7072.9	7060.5	7069.8	7099.3	7284.2	7599.6	7862.2	7717.7	6858.5	6578.8
25°	8067.3	8011.4	7916.6	7756.6	7709.9	7862.2	8135.7	8127.9	7337.0	7037.2
27.5°	9207.8	9198.5	8976.3	8591.0	8373.4	8314.4	8444.9	8527.2	7810.9	7490.9
30°	10300.1	10325.0	10025.1	9596.3	9196.9	8965.4	8847.3	8906.4	8292.6	7980.3
32.5°	11251.1	11277.5	10951.2	10449.3	9955.2	9675.5	9426.9	9280.8	8817.8	8477.5
35°	12054.4	12080.8	11706.3	11151.6	10624.9	10371.6	10090.4	9691.0	9346.1	9029.1
37.5°	12772.2	12764.5	12262.6	11703.2	11185.8	10985.4	10837.7	10196.0	9889.9	9583.8
40°	13196.4	13229.0	12800.2	12183.3	11681.5	11535.4	11526.1	10822.2	10517.7	10220.9
42.5°	13320.7	13378.2	13067.4	12560.9	12105.6	11947.2	12191.1	11499.7	11247.9	10958.9
45°	13097.0	13152.9	13011.5	12660.4	12394.7	12292.1	12762.9	12202.0	12028.0	11742.1
47.5°	12444.4	12514.3	12548.5	12473.9	12470.8	12574.9	13275.7	12941.6	12954.0	12661.9
50°	11181.1	11299.2	11613.1	11877.2	12285.9	12798.6	13774.4	13743.4	13998.2	13746.5
52.5°	8884.6	9052.4	10133.9	10856.4	11774.7	12756.7	14322.9	15029.9	15830.1	15461.9
55°	7139.7	7139.7	8019.2	9371.0	10777.1	12480.1	14562.2	15865.8	17077.8	16990.8
57.5°	5820.5	5890.5	6451.4	7646.2	9333.7	11821.3	14709.8	16391.0	18083.1	18019.4
60°	3592.4	3743.1	4802.8	5982.1	7691.3	10648.2	14616.6	16922.4	19302.8	19354.1
62.5°	2023.0	2079.0	2551.3	4304.0	5980.6	9071.1	13903.4	17219.2	20862.9	21080.4
65°	1396.9	1424.8	1606.6	2678.7	4145.5	7222.1	12509.6	17034.3	22426.0	22865.7
67.5°	1014.6	1028.6	1142.0	1636.2	2459.7	5236.3	10325.0	16102.0	23254.2	23989.1
70°	780.0	789.3	871.7	1075.2	1452.8	3231.9	7498.6	14248.3	22654.4	23532.3
72.5°	633.9	643.3	707.0	795.5	963.4	1911.2	4544.9	11571.1	20006.7	20954.5
75°	534.5	546.9	604.4	661.9	755.1	1227.5	2131.8	8058.0	15045.4	15667.0
77.5°	296.8	273.5	491.0	548.5	637.1	776.9	997.5	4742.2	8426.3	8598.7
80°	184.9	191.1	390.0	441.3	489.4	391.6	456.8	1825.7	2921.1	2775.1
82.5°	10.9	24.9	299.9	318.5	335.6	167.8	172.5	620.0	703.9	646.4
85°	0.0	0.0	136.7	110.3	116.5	48.2	49.7	144.5	94.8	102.6
87.5°	0.0	0.0	0.0	3.1	0.0	4.7	9.3	12.4	4.7	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950513
 CATALOG NUMBER: GALN-SB4D-940-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2885.4	0°	2885.4	2885.4	2885.4	2885.4	2885.4	2885.4	2885.4	2885.4	2885.4	2885.4
3033.0	2.5°	2924.2	2815.5	2594.8	2378.9	2203.3	2040.1	1923.6	1813.3	1757.3	1754.2
3228.8	5°	3012.8	2784.4	2343.1	1953.1	1639.3	1387.5	1224.4	1107.9	1048.8	1028.6
3469.6	7.5°	3137.1	2793.7	2122.5	1580.2	1210.4	994.4	901.2	863.9	851.5	837.5
3741.5	10°	3294.1	2815.5	1925.2	1272.6	954.0	845.3	808.0	792.4	783.1	773.8
4047.6	12.5°	3469.6	2835.7	1729.4	1056.6	839.1	783.1	756.7	738.1	725.6	714.7
4361.5	15°	3640.6	2848.1	1525.8	905.9	780.0	734.9	707.0	686.8	669.7	657.3
4669.2	17.5°	3809.9	2865.2	1334.7	815.7	731.8	686.8	658.8	633.9	620.0	606.0
4992.4	20°	3997.9	2862.1	1154.5	752.0	683.7	638.6	609.1	585.8	571.8	556.3
5334.2	22.5°	4171.9	2846.6	996.0	697.7	633.9	590.4	557.8	534.5	520.5	508.1
5683.8	25°	4372.4	2834.1	863.9	647.9	587.3	543.8	508.1	486.3	470.8	459.9
6035.0	27.5°	4565.1	2815.5	767.6	602.9	542.3	500.3	466.1	441.3	427.3	419.5
6397.0	30°	4754.6	2810.8	731.8	559.4	501.9	459.9	425.7	402.4	391.6	388.4
6794.8	32.5°	4983.0	2823.3	747.4	543.8	464.6	422.6	390.0	372.9	362.0	362.0
7237.6	35°	5227.0	2820.1	770.7	557.8	439.7	385.3	360.5	349.6	338.7	338.7
7728.6	37.5°	5533.1	2824.8	789.3	581.1	430.4	354.3	340.3	326.3	320.1	320.1
8266.2	40°	5989.9	2978.6	780.0	601.3	427.3	332.5	304.5	299.9	295.2	295.2
8873.7	42.5°	6549.3	3312.7	792.4	602.9	425.7	317.0	279.7	289.0	278.1	276.6
9559.0	45°	7161.5	3677.8	871.7	570.2	424.2	309.2	267.3	278.1	261.0	261.0
10353.0	47.5°	7769.0	4039.9	952.5	523.6	419.5	307.7	256.4	250.2	245.5	247.1
11387.8	50°	8606.5	4335.1	983.6	459.9	408.6	304.5	236.2	237.7	234.6	237.7
12846.8	52.5°	9518.6	4397.3	946.3	388.4	377.6	295.2	222.2	228.4	226.9	230.0
13873.9	55°	10087.3	4330.4	781.6	323.2	329.4	257.9	208.2	220.6	220.6	220.6
14877.6	57.5°	10674.6	4046.1	554.7	262.6	273.5	211.3	195.8	212.9	211.3	209.8
16086.5	60°	11097.2	3586.2	365.1	216.0	217.5	174.0	181.8	200.4	198.9	191.1
17332.6	62.5°	11412.7	3078.1	234.6	183.3	166.3	156.9	166.3	181.8	175.6	158.5
18389.2	65°	11376.9	2374.2	180.2	156.9	136.7	136.7	144.5	158.5	139.8	111.9
18591.2	67.5°	10713.4	1606.6	149.2	132.1	115.0	113.4	119.6	132.1	119.6	94.8
17556.4	70°	9527.9	1050.4	119.6	102.6	91.7	83.9	96.3	113.4	101.0	76.1
14946.0	72.5°	7733.3	640.2	90.1	74.6	66.8	54.4	76.1	93.2	80.8	55.9
10393.4	75°	5003.2	326.3	62.2	48.2	35.7	32.6	55.9	69.9	55.9	34.2
4611.7	77.5°	1914.3	136.7	34.2	21.8	18.6	15.5	31.1	42.0	23.3	7.8
893.4	80°	368.3	57.5	17.1	10.9	9.3	6.2	4.7	3.1	0.0	0.0
158.5	82.5°	63.7	18.6	6.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
31.1	85°	21.8	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10.9	87.5°	7.8	0.0	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>
2885.4
1751.1
1025.5
834.4
770.7
711.6
655.7
604.4
554.7
506.5
458.4
419.5
386.9
362.0
338.7
320.1
295.2
275.0
261.0
247.1
237.7
230.0
220.6
209.8
191.1
155.4
108.8
91.7
73.0
52.8
29.5
6.2
0.0
0.0
0.0
0.0
0.0

F REPORT)