

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: P944472

Luminaire Tested: **GALN-SB9B-940-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944472
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9B-940-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36842 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

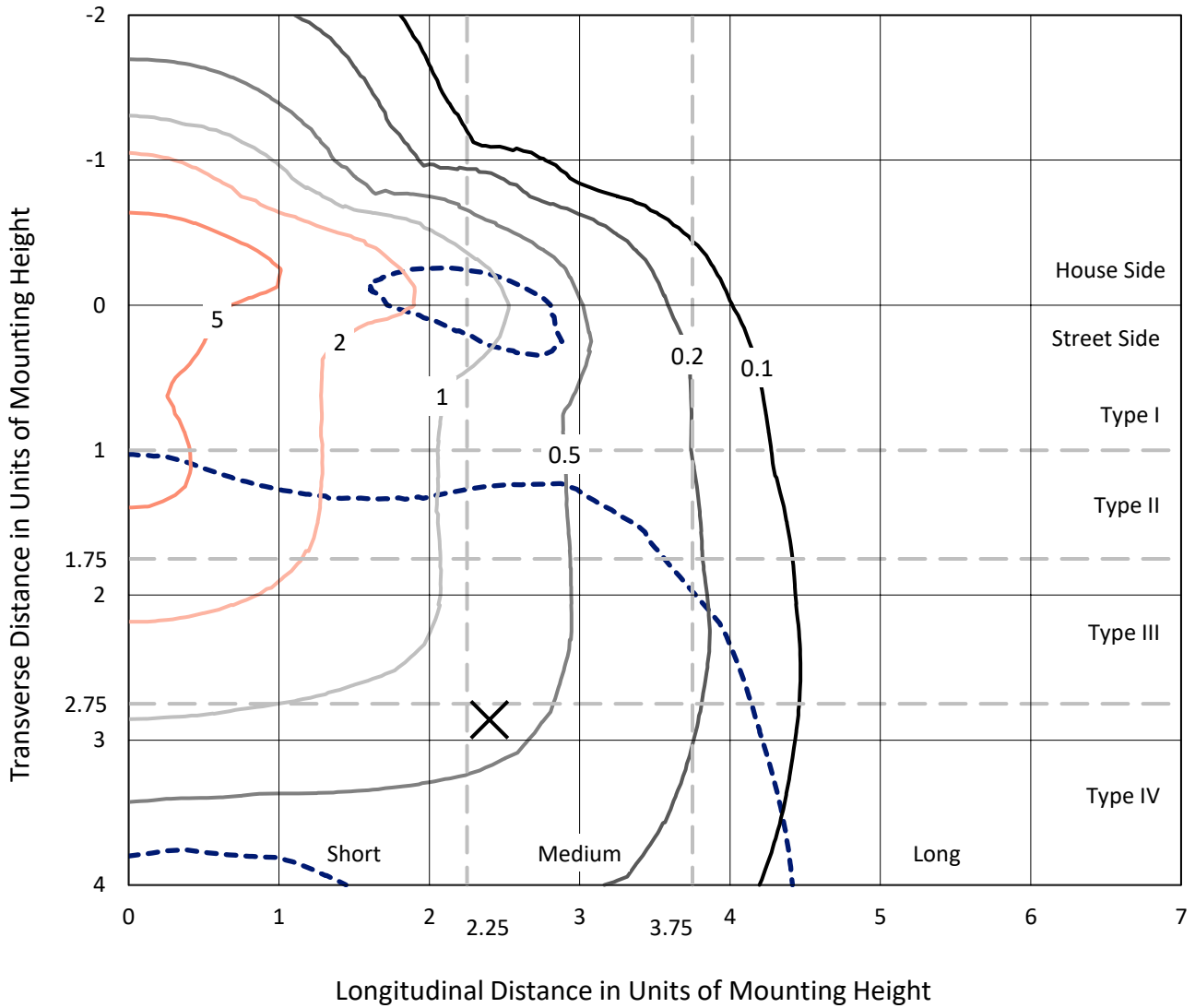
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P944472
 CATALOG NUMBER: GALN-SB9B-940-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

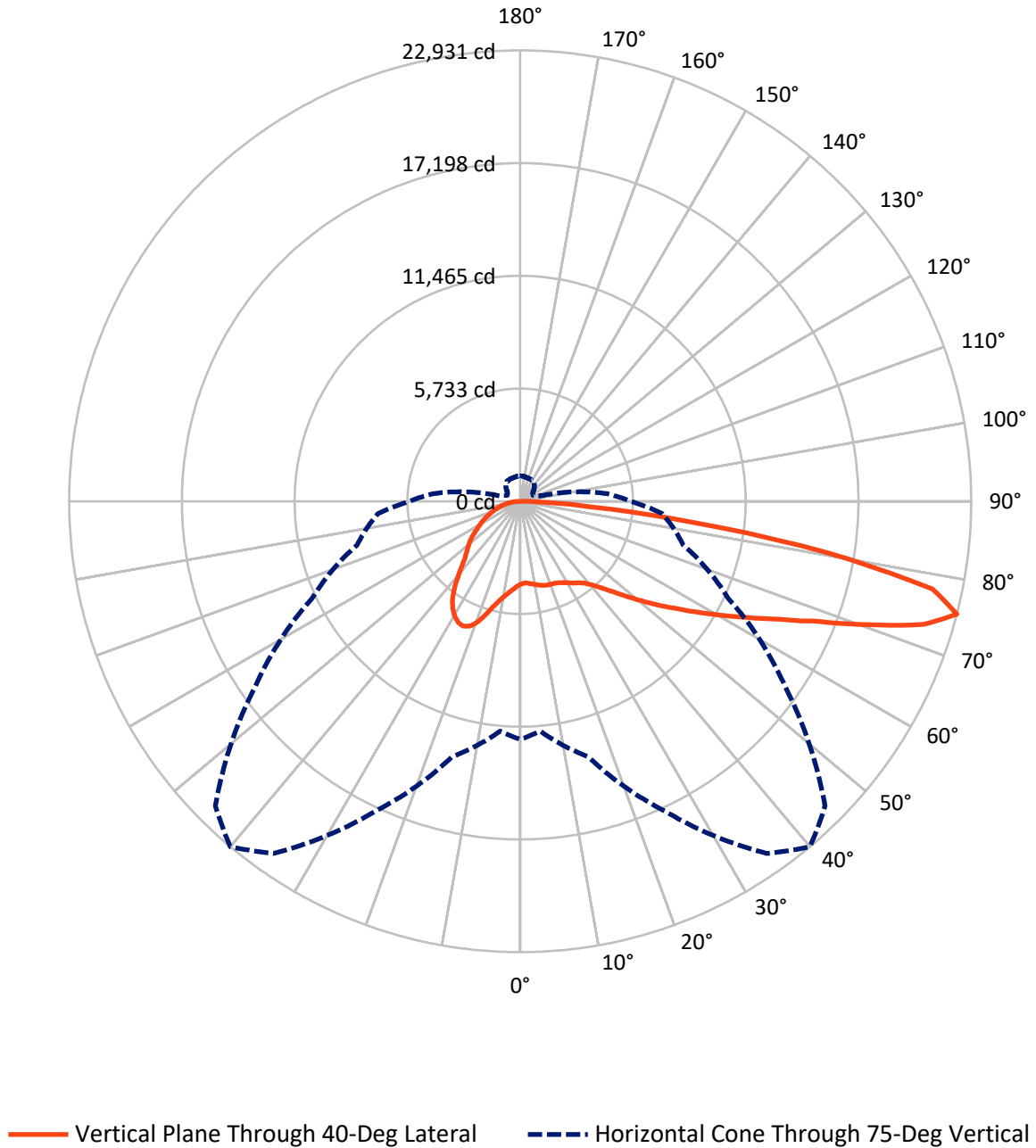
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Medium - N/A

REPORT NUMBER: P944472
CATALOG NUMBER: GALN-SB9B-940-U-SL4

Luminous Intensity Polar Plot



REPORT NUMBER: P944472

CATALOG NUMBER: GALN-SB9B-940-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11414.9	0.0	11414.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	25427.1	0.0	25427.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	36842.0	0.0	36842.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.5	1.1
10°-20°	1411.9	3.8
20°-30°	2578.0	7.0
30°-40°	3656.4	9.9
40°-50°	4937.2	13.4
50°-60°	6641.9	18.0
60°-70°	8430.0	22.9
70°-80°	7650.8	20.8
80°-90°	1115.2	3.0
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°	36842.0	100.0
0°-180°	36842.0	100.0

Coefficient of Utilization



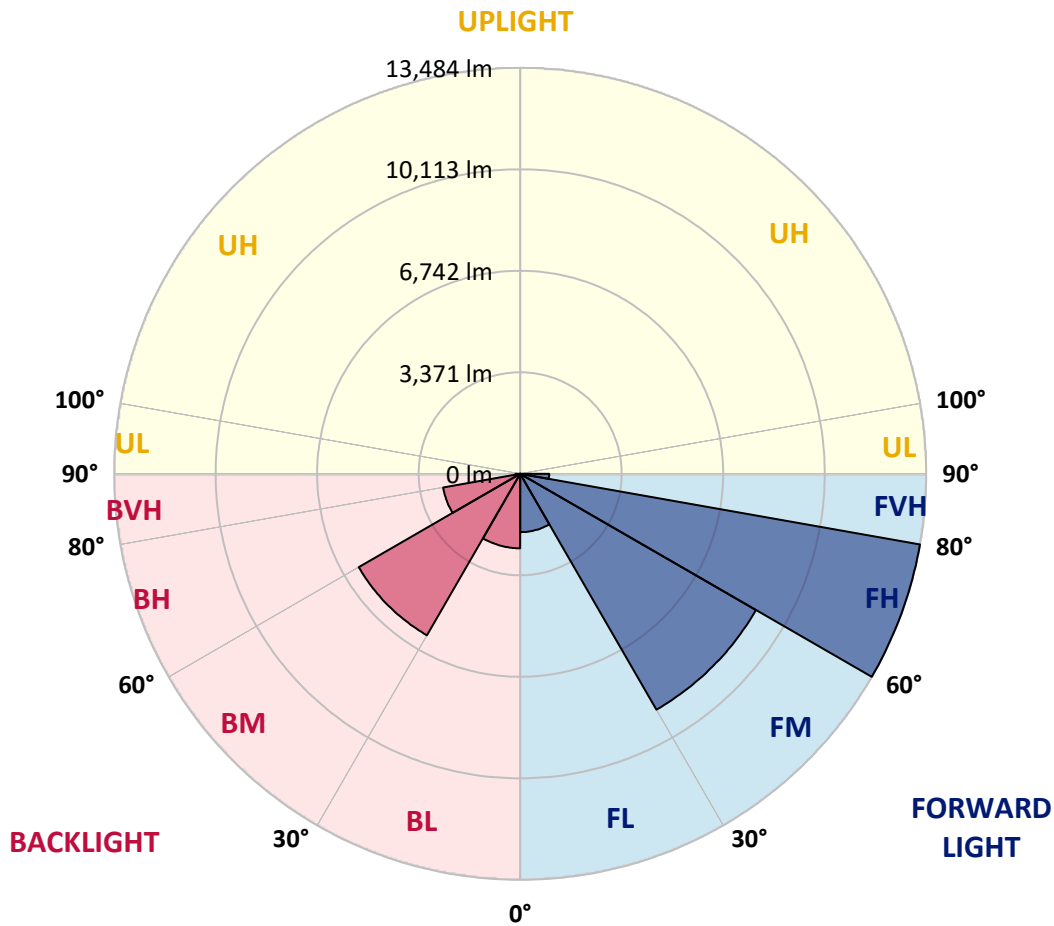
REPORT NUMBER: P944472
 CATALOG NUMBER: GALN-SB9B-940-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1937.9	5.3			
FM (30°-60°)	9043.9	24.5			
FH (60°-80°)	13483.6	36.6			G5
FVH (80°-90°)	961.7	2.6			G5
BL (0°-30°)	2472.6	6.7	B3/2500		
BM (30°-60°)	6191.5	16.8	B4/8500		
BH (60°-80°)	2597.2	7.0	B4/5000		G4/5000
BVH (80°-90°)	153.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



REPORT NUMBER: P944472

CATALOG NUMBER: GALN-SB9B-940-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	4212.9	4212.9	4212.9	4212.9	4212.9	4212.9	4212.9	4212.9	4212.9	4212.9
2.5°	4148.4	4171.9	4166.0	4158.2	4158.2	4160.2	4158.2	4171.9	4185.6	4199.3
5°	4191.4	4214.9	4203.2	4193.4	4185.6	4183.6	4177.8	4175.8	4183.6	4201.2
7.5°	4275.5	4298.9	4281.3	4263.7	4248.1	4240.3	4232.5	4220.7	4214.9	4224.7
10°	4369.3	4392.7	4371.2	4339.9	4314.5	4304.8	4297.0	4285.2	4277.4	4283.3
12.5°	4463.1	4486.5	4457.2	4414.2	4381.0	4375.1	4365.3	4361.4	4359.5	4357.5
15°	4551.0	4570.5	4533.4	4482.6	4447.4	4437.6	4427.9	4433.7	4443.5	4455.2
17.5°	4619.4	4638.9	4584.2	4517.8	4484.5	4480.6	4474.8	4494.3	4521.7	4551.0
20°	4681.9	4701.4	4631.1	4541.2	4502.1	4502.1	4504.1	4545.1	4584.2	4627.2
22.5°	4769.8	4785.5	4699.5	4576.4	4519.7	4523.6	4539.3	4580.3	4629.1	4687.8
25°	4900.8	4912.5	4807.0	4642.8	4578.3	4590.1	4603.7	4623.3	4670.2	4738.6
27.5°	5111.8	5121.6	4982.8	4760.1	4662.4	4681.9	4701.4	4687.8	4709.3	4767.9
30°	5408.8	5414.7	5238.8	4943.7	4805.0	4814.8	4818.7	4762.0	4721.0	4767.9
32.5°	5760.5	5758.6	5549.5	5166.5	4967.2	4957.4	4924.2	4812.8	4717.1	4758.1
35°	6305.7	6284.2	6014.6	5479.2	5150.9	5090.3	5012.1	4869.5	4736.6	4748.3
37.5°	7208.5	7142.1	6768.8	5991.1	5424.4	5270.1	5154.8	4961.3	4779.6	4744.4
40°	8226.6	8142.5	7732.2	6692.6	5834.8	5586.6	5401.0	5092.3	4850.0	4762.0
42.5°	9434.2	9315.0	8873.3	7519.2	6354.6	5995.0	5715.6	5258.3	4953.5	4818.7
45°	10917.3	10759.0	10133.7	8451.3	7009.2	6530.4	6157.2	5510.4	5111.8	4928.1
47.5°	12416.0	12455.1	11566.0	9518.2	7794.7	7190.9	6710.2	5889.5	5342.4	5104.0
50°	14008.6	14035.9	12990.5	10700.4	8685.8	7937.4	7331.6	6313.5	5662.8	5354.1
52.5°	15251.4	15255.3	14284.1	11937.3	9613.9	8758.1	8001.8	6798.1	6034.1	5686.3
55°	16029.1	16019.3	15190.8	13107.8	10680.8	9619.8	8744.4	7349.2	6487.4	6077.1
57.5°	16593.8	16564.5	15816.1	14114.1	11818.1	10637.8	9584.6	7974.5	7022.9	6542.2
60°	16808.7	16791.2	16240.1	14983.7	13014.0	11763.4	10553.8	8674.0	7630.6	7091.2
62.5°	16890.8	16924.0	16656.3	15825.9	14293.9	13010.1	11618.8	9510.4	8314.5	7712.6
65°	17180.0	17240.6	17185.9	16927.9	15739.9	14469.7	13031.6	10505.0	9060.9	8379.0
67.5°	17752.5	17813.1	17836.6	18246.9	17506.3	16289.0	14794.1	11743.8	9934.4	9070.7
70°	17738.9	17721.3	18135.5	19296.2	19718.3	18807.7	17170.2	13268.0	10975.9	9645.2
72.5°	16146.3	16005.6	16984.6	19284.5	21559.0	21437.9	20072.0	15233.8	11874.8	9715.5
75°	12113.2	11738.0	13467.3	17379.3	21865.8	22930.8	21916.6	16453.1	11661.8	8584.1
77.5°	5180.2	4803.1	6841.1	12865.5	19569.8	21435.9	20224.4	14354.5	9309.1	5676.5
80°	1356.1	1354.2	2067.4	5832.8	13309.0	15829.8	13887.4	9270.0	5318.9	2028.3
82.5°	560.8	547.1	760.1	2268.7	6503.1	8883.1	7249.5	4134.8	1920.8	549.1
85°	209.1	207.1	369.3	783.6	2294.1	3663.8	2651.6	1057.1	478.7	267.7
87.5°	58.6	56.7	80.1	271.6	558.9	848.1	453.3	173.9	134.8	105.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944472
 CATALOG NUMBER: GALN-SB9B-940-U-SL4

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4212.9	0°	4212.9	4212.9	4212.9	4212.9	4212.9	4212.9	4212.9	4212.9	4212.9	4212.9
4220.7	2.5°	4226.6	4236.4	4254.0	4267.6	4285.2	4304.8	4332.1	4349.7	4367.3	4379.0
4230.5	5°	4244.2	4265.7	4310.6	4355.6	4408.3	4457.2	4513.9	4554.9	4588.1	4597.9
4265.7	7.5°	4283.3	4318.5	4394.7	4470.9	4554.9	4635.0	4717.1	4787.4	4844.1	4865.6
4328.2	10°	4351.7	4398.6	4506.0	4613.5	4724.9	4848.0	4953.5	5055.1	5135.2	5168.5
4402.5	12.5°	4437.6	4496.3	4637.0	4785.5	4939.8	5109.8	5246.6	5371.7	5471.3	5516.3
4506.0	15°	4549.0	4625.2	4805.0	5004.3	5231.0	5467.4	5641.3	5780.1	5891.5	5946.2
4613.5	17.5°	4670.2	4771.8	4998.5	5299.4	5623.8	5934.4	6137.7	6239.3	6354.6	6407.3
4713.2	20°	4787.4	4912.5	5236.9	5674.6	6106.4	6436.6	6600.8	6628.1	6636.0	6641.8
4807.0	22.5°	4908.6	5076.6	5535.8	6147.4	6610.6	6839.2	6862.6	6745.4	6581.2	6505.0
4898.8	25°	5041.4	5264.2	5926.6	6669.2	7044.4	7071.7	6891.9	6606.6	6295.9	6153.3
4973.1	27.5°	5170.4	5481.1	6395.6	7167.5	7357.0	7116.7	6729.7	6325.3	5950.1	5799.6
5025.8	30°	5299.4	5729.3	6913.4	7603.2	7499.6	7005.3	6473.8	6022.4	5645.3	5487.0
5072.7	32.5°	5430.3	6018.5	7509.4	7917.8	7474.2	6768.8	6155.3	5682.4	5350.2	5184.1
5113.7	35°	5578.8	6374.1	8074.1	8089.8	7304.2	6421.0	5735.1	5275.9	4986.7	4853.9
5162.6	37.5°	5772.3	6825.5	8572.4	8132.8	7007.2	5911.0	5213.4	4795.2	4556.8	4496.3
5234.9	40°	6012.6	7368.7	8953.5	8064.4	6567.6	5291.6	4642.8	4308.7	4173.9	4187.5
5332.6	42.5°	6325.3	7976.4	9221.2	7888.5	5955.9	4652.6	4142.6	3994.1	4058.6	4113.3
5479.2	45°	6731.7	8607.6	9387.3	7589.5	5264.2	4111.3	3847.5	3882.7	3931.5	3937.4
5715.6	47.5°	7251.5	9246.6	9496.7	7138.1	4558.8	3730.3	3659.9	3667.8	3658.0	3616.9
6069.3	50°	7900.2	9868.0	9594.4	6540.2	3958.9	3491.9	3398.1	3370.7	3235.9	3103.0
6540.2	52.5°	8638.9	10438.5	9635.4	5797.7	3491.9	3292.6	3140.2	2968.2	2716.1	2675.1
7132.3	55°	9459.6	10966.1	9529.9	4885.1	3099.1	3036.6	2806.0	2598.9	2571.5	2536.4
7911.9	57.5°	10440.5	11534.8	9315.0	3867.1	2696.6	2737.6	2512.9	2536.4	2487.5	2432.8
8914.4	60°	11513.3	12122.9	8937.8	2938.9	2280.4	2364.4	2436.7	2434.7	2421.1	2376.1
9971.5	62.5°	12478.6	12509.8	8195.3	2251.1	1915.0	2075.2	2272.6	2270.6	2258.9	2233.5
11075.6	65°	13053.1	12451.2	6956.4	1772.3	1614.0	1836.8	2049.8	2065.4	2067.4	2065.4
11906.0	67.5°	12951.4	11765.3	5256.4	1410.8	1365.9	1594.5	1829.0	1850.5	1866.1	1870.0
12011.5	70°	11802.5	10258.8	3427.4	1125.5	1145.1	1381.5	1619.9	1641.4	1655.1	1670.7
10422.9	72.5°	9199.7	7542.6	1961.9	910.6	951.6	1197.8	1412.8	1438.2	1446.0	1475.3
7253.4	75°	5606.2	4435.7	1059.1	717.1	781.6	1023.9	1207.6	1236.9	1250.6	1285.8
3562.2	77.5°	2665.3	1920.8	603.8	558.9	629.2	836.3	1020.0	1053.2	1016.1	1035.6
982.9	80°	900.8	713.2	381.0	426.0	480.7	652.7	816.8	850.0	771.8	767.9
326.3	82.5°	314.6	289.2	242.3	283.3	310.7	467.0	617.5	660.5	574.5	572.5
146.6	85°	123.1	117.2	134.8	154.4	185.6	287.2	406.4	427.9	353.7	285.3
43.0	87.5°	25.4	27.4	33.2	35.2	56.7	99.7	146.6	179.8	142.6	121.2
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>
4212.9
4371.2
4601.8
4867.5
5170.4
5516.3
5942.3
6405.4
6657.4
6526.5
6174.8
5817.2
5504.6
5205.6
4883.2
4539.3
4234.4
4164.1
3976.5
3648.2
3120.6
2688.8
2542.2
2423.0
2360.5
2223.7
2065.4
1873.9
1678.5
1487.0
1289.7
1020.0
760.1
545.2
281.4
111.4
0.0

F REPORT)