

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: P950340

Luminaire Tested: **GALN-SB4D-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950340
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4D-827-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34660 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

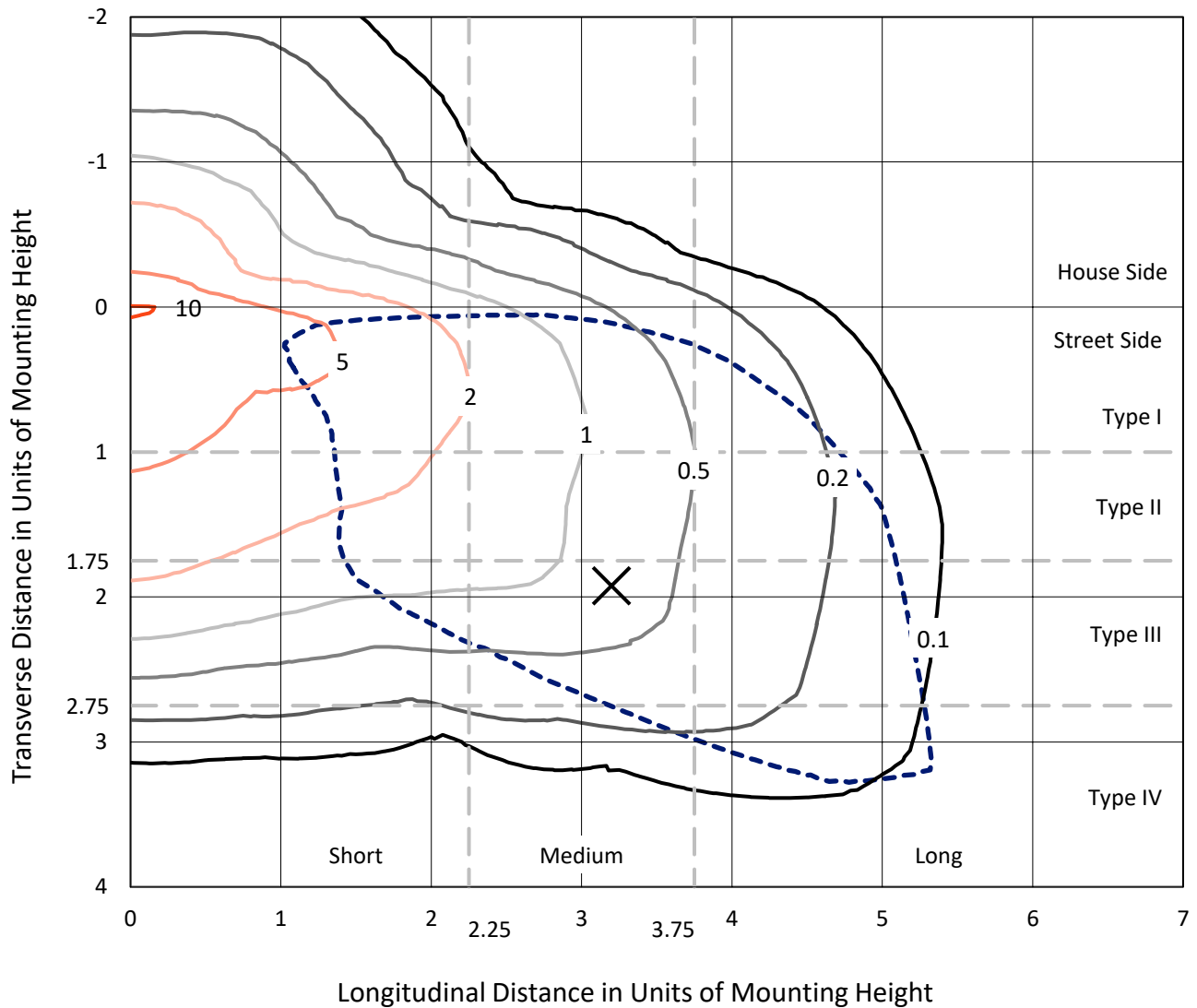
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950340
 CATALOG NUMBER: GALN-SB4D-827-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

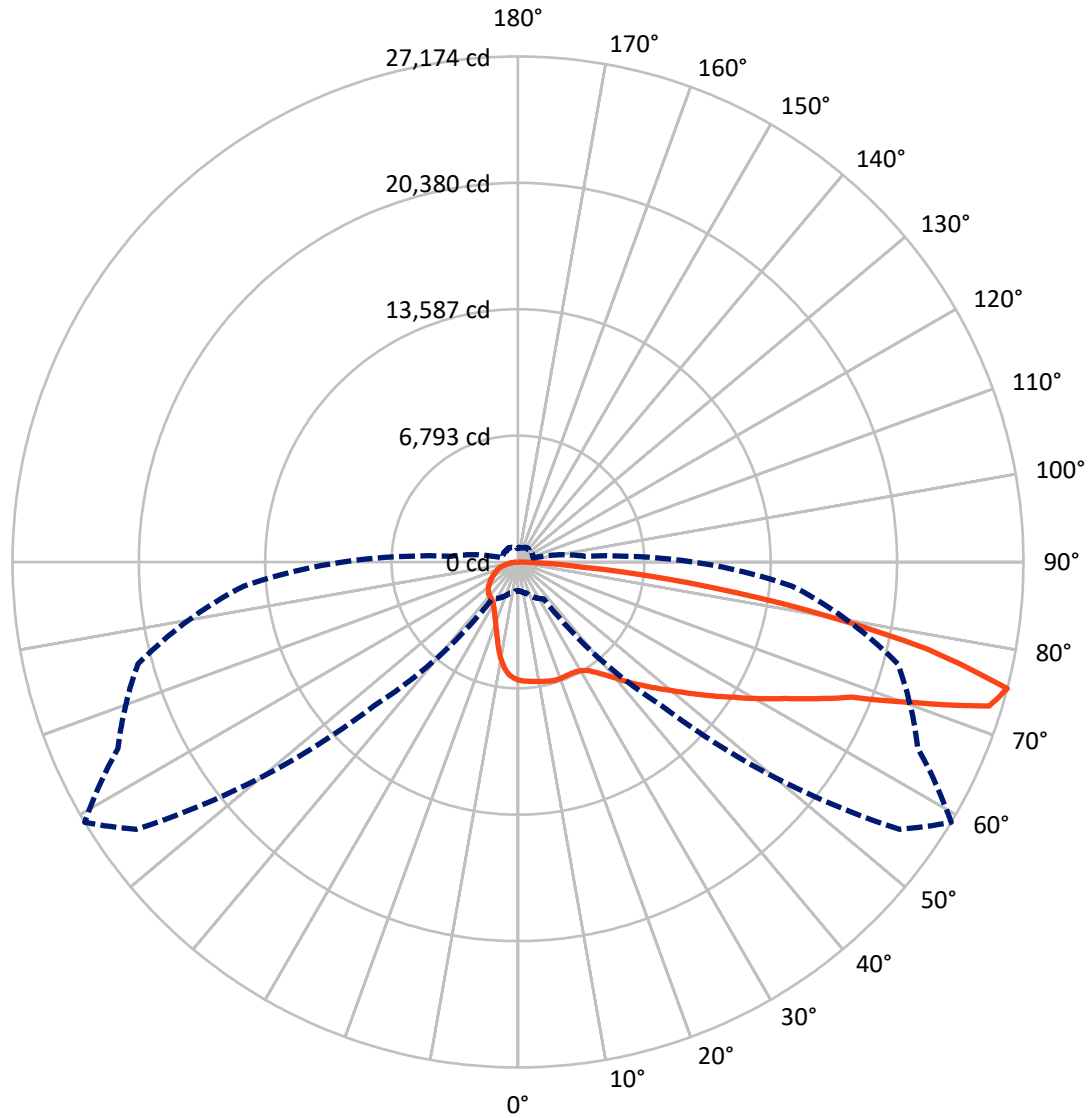
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type IV - Medium - N/A

REPORT NUMBER: P950340
CATALOG NUMBER: GALN-SB4D-827-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P950340
 CATALOG NUMBER: GALN-SB4D-827-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6500.7	0.0	6500.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	28159.3	0.0	28159.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	34660.0	0.0	34660.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.4	1.6
10°-20°	1458.1	4.2
20°-30°	2214.7	6.4
30°-40°	3292.1	9.5
40°-50°	4895.9	14.1
50°-60°	6645.6	19.2
60°-70°	8113.2	23.4
70°-80°	6367.1	18.4
80°-90°	1102.9	3.2
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°	34660.0	100.0
0°-180°	34660.0	100.0

Coefficient of Utilization



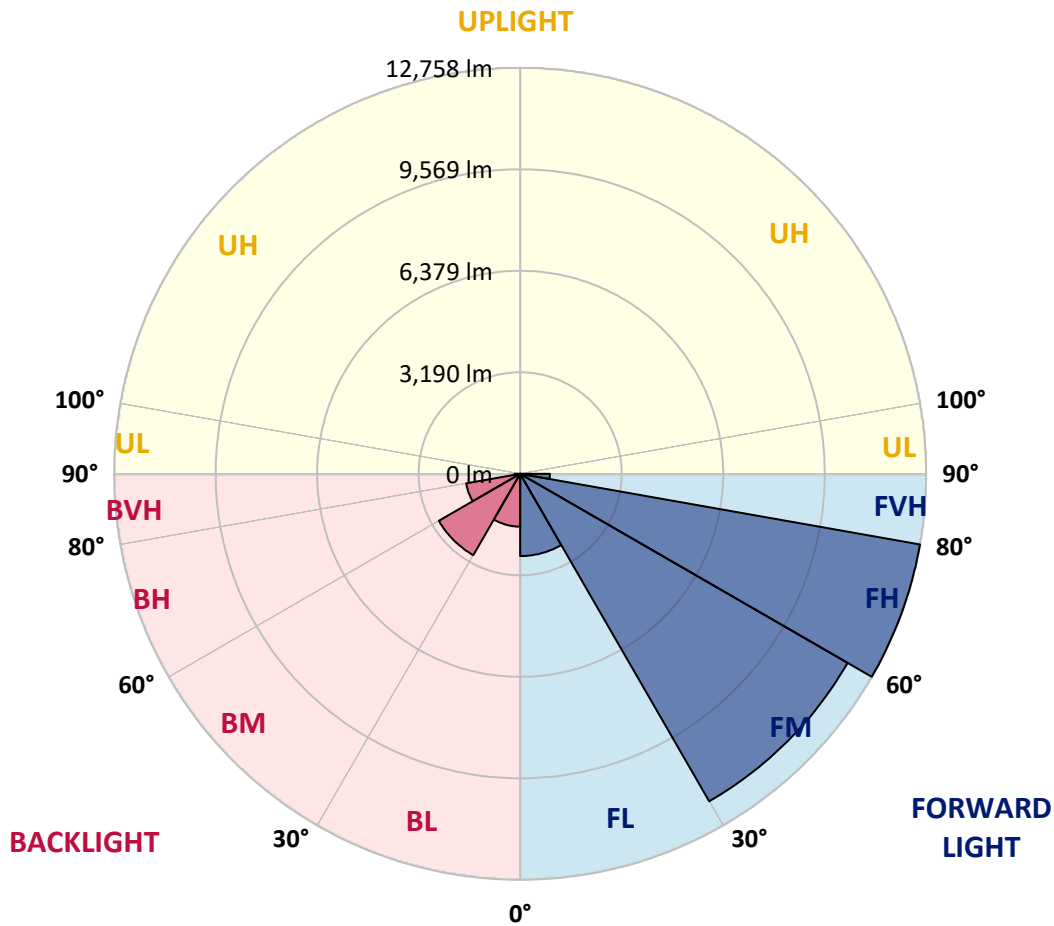
REPORT NUMBER: P950340
 CATALOG NUMBER: GALN-SB4D-827-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2584.3	7.5			
FM (30°-60°)	11882.9	34.3			
FH (60°-80°)	12758.0	36.8			G5
FVH (80°-90°)	934.1	2.7			G5
BL (0°-30°)	1658.9	4.8	B3/2500		
BM (30°-60°)	2950.7	8.5	B3/5000		
BH (60°-80°)	1722.3	5.0	B3/2500		G3/2500
BVH (80°-90°)	168.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium



REPORT NUMBER: P950340
 CATALOG NUMBER: GALN-SB4D-827-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	6361.8	6361.8	6361.8	6361.8	6361.8	6361.8	6361.8	6361.8	6361.8	6361.8
2.5°	6415.8	6393.5	6415.8	6406.5	6402.8	6395.3	6397.2	6410.2	6402.8	6412.1
5°	6373.0	6359.9	6382.3	6376.7	6400.9	6404.6	6428.9	6443.8	6453.1	6455.0
7.5°	6302.1	6289.0	6320.7	6346.8	6399.1	6414.0	6464.3	6488.6	6501.6	6524.0
10°	6042.9	6037.3	6115.6	6214.5	6337.5	6414.0	6490.4	6531.4	6551.9	6611.6
12.5°	5584.3	5591.7	5694.3	5884.4	6130.6	6376.7	6520.3	6579.9	6611.6	6686.2
15°	5146.1	5144.2	5256.1	5459.3	5804.3	6212.6	6535.2	6637.7	6691.8	6801.8
17.5°	4892.5	4885.1	4963.4	5118.1	5438.8	5960.9	6497.9	6669.4	6785.0	6923.0
20°	4845.9	4831.0	4872.0	4948.5	5175.9	5684.9	6400.9	6669.4	6859.6	7038.6
22.5°	5015.6	4991.3	4974.6	4965.2	5065.9	5457.5	6290.9	6647.0	6969.6	7204.5
25°	5356.8	5319.5	5233.7	5149.8	5120.0	5354.9	6194.0	6641.4	7133.7	7428.3
27.5°	5908.7	5862.1	5688.7	5487.3	5306.4	5407.1	6151.1	6675.0	7314.5	7665.1
30°	6593.0	6542.6	6324.5	6015.0	5690.5	5601.0	6205.1	6773.8	7545.7	7980.2
32.5°	7206.4	7150.5	6964.0	6648.9	6210.7	5936.7	6376.7	6962.1	7909.3	8418.3
35°	7750.8	7685.6	7517.8	7226.9	6848.4	6408.4	6686.2	7295.9	8425.8	9130.6
37.5°	8284.1	8207.6	8024.9	7717.3	7452.5	7036.7	7113.2	7724.7	9111.9	9995.7
40°	8880.7	8770.7	8548.9	8244.9	7987.6	7773.2	7674.4	8250.5	9809.3	10961.6
42.5°	9458.7	9354.3	9089.6	8830.4	8507.8	8446.3	8325.1	8865.8	10571.9	12022.5
45°	10081.5	9956.6	9635.9	9307.7	9104.5	8893.8	8955.3	9481.1	11319.5	13103.9
47.5°	10665.1	10525.3	10146.8	9781.3	9669.4	9270.4	9533.3	10157.9	12097.1	14200.2
50°	10980.2	10842.2	10527.1	10197.1	10109.5	9734.7	10159.8	10901.9	12911.8	15292.8
52.5°	11243.1	11093.9	10681.9	10499.2	10473.0	10240.0	10931.7	11752.1	13726.6	16258.7
55°	11522.8	11356.8	10831.0	10667.0	10786.3	10806.8	11847.2	12716.1	14588.1	17200.3
57.5°	11845.3	11634.6	10974.6	10808.7	11092.1	11470.6	12898.8	13715.5	15434.6	18072.9
60°	12149.3	11936.7	11250.6	11034.3	11422.1	12240.6	14105.1	14925.5	16392.9	18850.4
62.5°	12208.9	12033.7	11470.6	11468.7	11869.6	13139.3	15533.4	16146.8	17230.1	19618.6
65°	11176.0	11066.0	10732.2	11451.9	12511.0	14433.3	17123.8	17709.3	18294.7	20289.8
67.5°	8506.0	8520.9	8496.6	9885.7	11992.6	16292.2	19426.5	19381.8	19609.2	21043.1
70°	3889.4	3977.0	4547.6	6824.2	9607.9	16506.7	23233.9	22654.0	21259.3	22018.2
72.5°	2101.3	2168.4	2401.5	3305.8	5776.3	14675.7	26079.1	26491.2	23453.9	22674.5
75°	1542.0	1579.3	1741.5	2101.3	2425.7	10907.5	25059.2	27173.6	23728.0	21143.7
77.5°	1154.1	1170.9	1303.3	1665.0	1241.8	5750.2	20023.2	22504.8	20312.2	17371.8
80°	837.2	855.8	954.6	1249.2	870.7	2103.2	13749.0	15796.3	13911.2	11073.4
82.5°	578.0	585.5	628.3	850.2	607.8	816.7	7801.2	9263.0	7765.8	3885.7
85°	348.7	358.0	376.6	496.0	344.9	387.8	3367.3	3482.9	2321.3	928.5
87.5°	143.6	152.9	167.8	208.8	136.1	108.1	555.6	697.3	434.4	272.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950340
 CATALOG NUMBER: GALN-SB4D-827-U-SL3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
6361.8	0°	6361.8	6361.8	6361.8	6361.8	6361.8	6361.8	6361.8	6361.8	6361.8	6361.8
6380.4	2.5°	6371.1	6358.0	6322.6	6274.1	6229.4	6173.4	6149.2	6128.7	6110.1	6074.6
6430.8	5°	6410.2	6374.8	6279.7	6156.7	6016.8	5863.9	5714.8	5612.2	5524.6	5459.3
6488.6	7.5°	6469.9	6402.8	6229.4	5977.7	5657.0	5328.8	5032.4	4821.7	4663.2	4605.4
6570.6	10°	6531.4	6451.3	6149.2	5705.5	5151.7	4646.4	4253.0	4036.7	3909.9	3868.9
6667.5	12.5°	6604.2	6486.7	6024.3	5327.0	4586.7	4033.0	3689.9	3563.1	3497.9	3475.5
6786.9	15°	6710.4	6516.5	5836.0	4853.4	4047.9	3585.5	3363.6	3276.0	3242.4	3240.5
6909.9	17.5°	6790.6	6522.1	5543.2	4346.2	3634.0	3315.1	3132.4	3098.8	3121.2	3154.8
7031.1	20°	6880.1	6471.8	5159.1	3883.8	3343.1	3078.3	3001.9	3024.3	3078.3	3126.8
7191.5	22.5°	6943.5	6380.4	4694.9	3524.0	3091.4	2942.2	2938.5	2985.1	3014.9	3039.2
7379.8	25°	6999.4	6225.7	4202.6	3221.9	2884.4	2860.2	2901.2	2886.3	2865.8	2886.3
7568.1	27.5°	7040.5	5981.4	3762.6	2957.1	2739.0	2804.2	2780.0	2746.4	2744.6	2755.8
7790.0	30°	7027.4	5655.1	3400.9	2705.4	2636.4	2699.8	2642.0	2636.4	2630.8	2636.4
8123.7	32.5°	7027.4	5284.1	3123.1	2532.0	2571.2	2546.9	2541.4	2528.3	2505.9	2504.1
8576.8	35°	7066.6	4913.0	2884.4	2438.8	2517.1	2459.3	2463.0	2431.3	2384.7	2362.4
9177.2	37.5°	7146.7	4614.7	2647.6	2394.1	2422.0	2420.2	2405.2	2351.2	2269.1	2198.3
9926.7	40°	7340.6	4527.1	2485.4	2373.5	2377.3	2399.6	2360.5	2256.1	2069.6	1954.0
10687.5	42.5°	7644.6	4674.4	2450.0	2323.2	2347.4	2369.8	2293.4	2051.0	1918.6	1849.6
11485.5	45°	8030.5	4931.7	2526.4	2250.5	2276.6	2315.7	2088.3	1972.7	1913.0	1914.9
12276.0	47.5°	8519.0	5202.0	2668.1	2187.1	2174.0	2196.4	1952.2	1881.3	1799.3	1819.8
13034.9	50°	9084.0	5476.1	2802.4	2101.3	2060.3	1987.6	1864.5	1797.4	1693.0	1644.5
13767.7	52.5°	9695.5	5740.9	2856.5	1996.9	1937.2	1853.3	1804.9	1722.8	1596.0	1515.9
14459.4	55°	10275.4	5981.4	2796.8	1872.0	1814.2	1748.9	1741.5	1691.1	1555.0	1443.1
15074.7	57.5°	10823.6	6182.8	2647.6	1745.2	1689.3	1650.1	1700.4	1676.2	1504.7	1361.1
15656.4	60°	11287.8	6320.7	2431.3	1616.5	1577.4	1556.9	1633.3	1625.9	1433.8	1273.5
16178.5	62.5°	11657.0	6374.8	2192.7	1493.5	1484.2	1446.9	1540.1	1540.1	1344.3	1187.7
16637.2	65°	11946.0	6322.6	1950.3	1372.3	1390.9	1335.0	1426.4	1415.2	1249.2	1111.3
17164.8	67.5°	12201.5	6151.1	1681.8	1253.0	1295.8	1225.0	1307.0	1280.9	1144.8	1034.8
17621.6	70°	12315.2	5752.1	1376.0	1133.6	1185.8	1116.9	1187.7	1139.2	1027.4	952.8
17120.1	72.5°	11401.6	4780.6	1083.3	1008.7	1053.5	997.5	1059.1	1003.1	900.6	867.0
14783.8	75°	9432.6	3587.3	833.4	872.6	906.2	863.3	904.3	863.3	770.0	794.3
10920.5	77.5°	6850.3	2422.0	637.7	729.0	743.9	721.6	757.0	710.4	626.5	620.9
5442.6	80°	3406.5	1418.9	499.7	576.1	570.5	555.6	596.6	574.3	503.4	533.3
1469.2	82.5°	986.3	607.8	363.6	404.6	393.4	397.1	427.0	438.2	656.3	650.7
456.8	85°	309.5	238.7	218.1	225.6	214.4	220.0	251.7	499.7	462.4	270.4
141.7	87.5°	80.2	82.0	54.1	57.8	59.7	70.9	80.2	303.9	145.4	95.1
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>
6361.8
6057.8
5405.3
4504.7
3805.5
3481.1
3248.0
3167.8
3143.6
3052.2
2899.3
2774.4
2657.0
2528.3
2384.7
2222.5
1968.9
1849.6
1924.2
1872.0
1657.6
1514.0
1443.1
1353.6
1267.9
1182.1
1103.8
1027.4
937.9
839.0
725.3
592.9
527.7
665.6
292.7
100.7
0.0

F REPORT)