

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: P955863

Luminaire Tested: **GALN-SB8C-940-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955863
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-SB8C-940-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42888 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

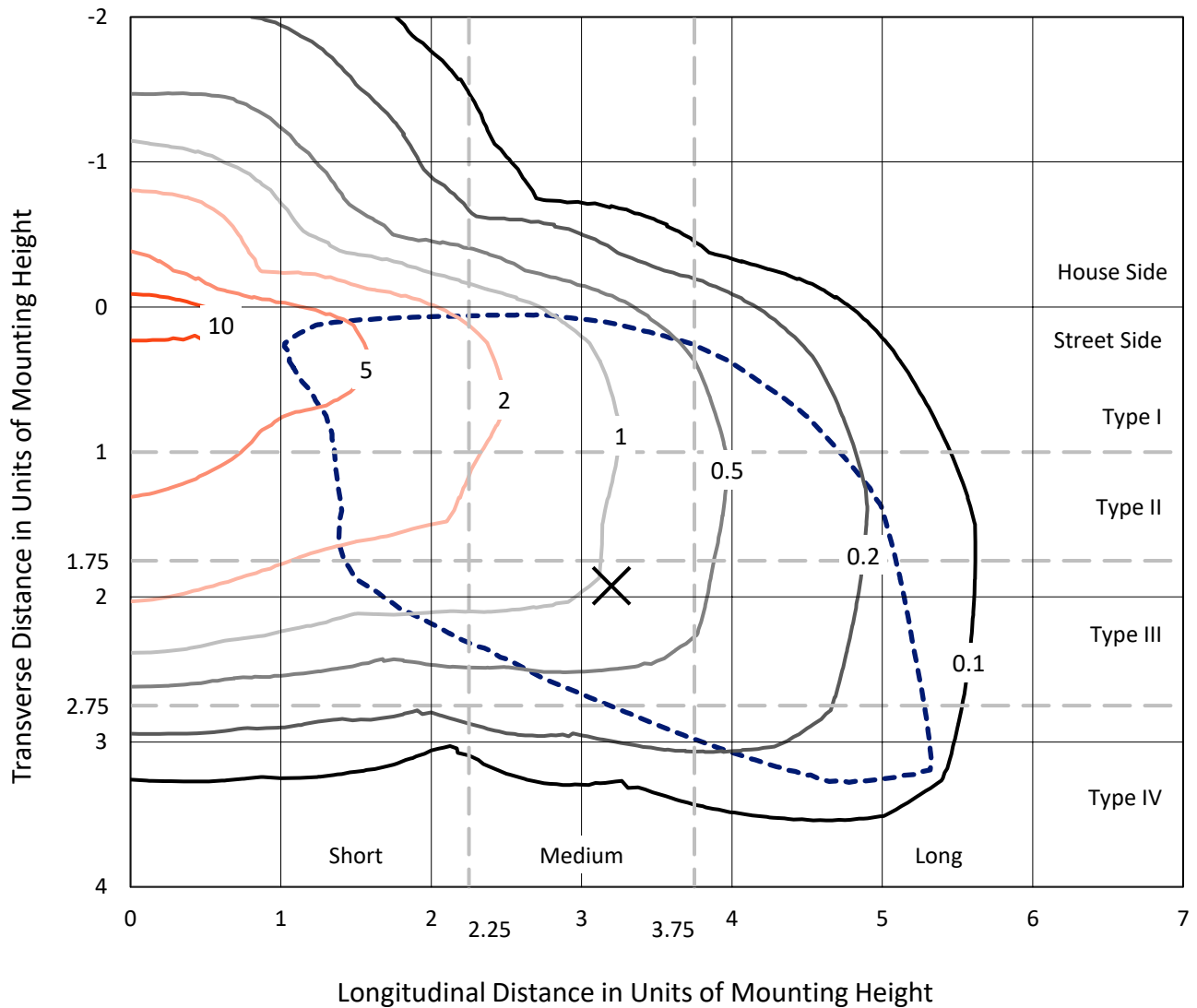
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955863
 CATALOG NUMBER: GALN-SB8C-940-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

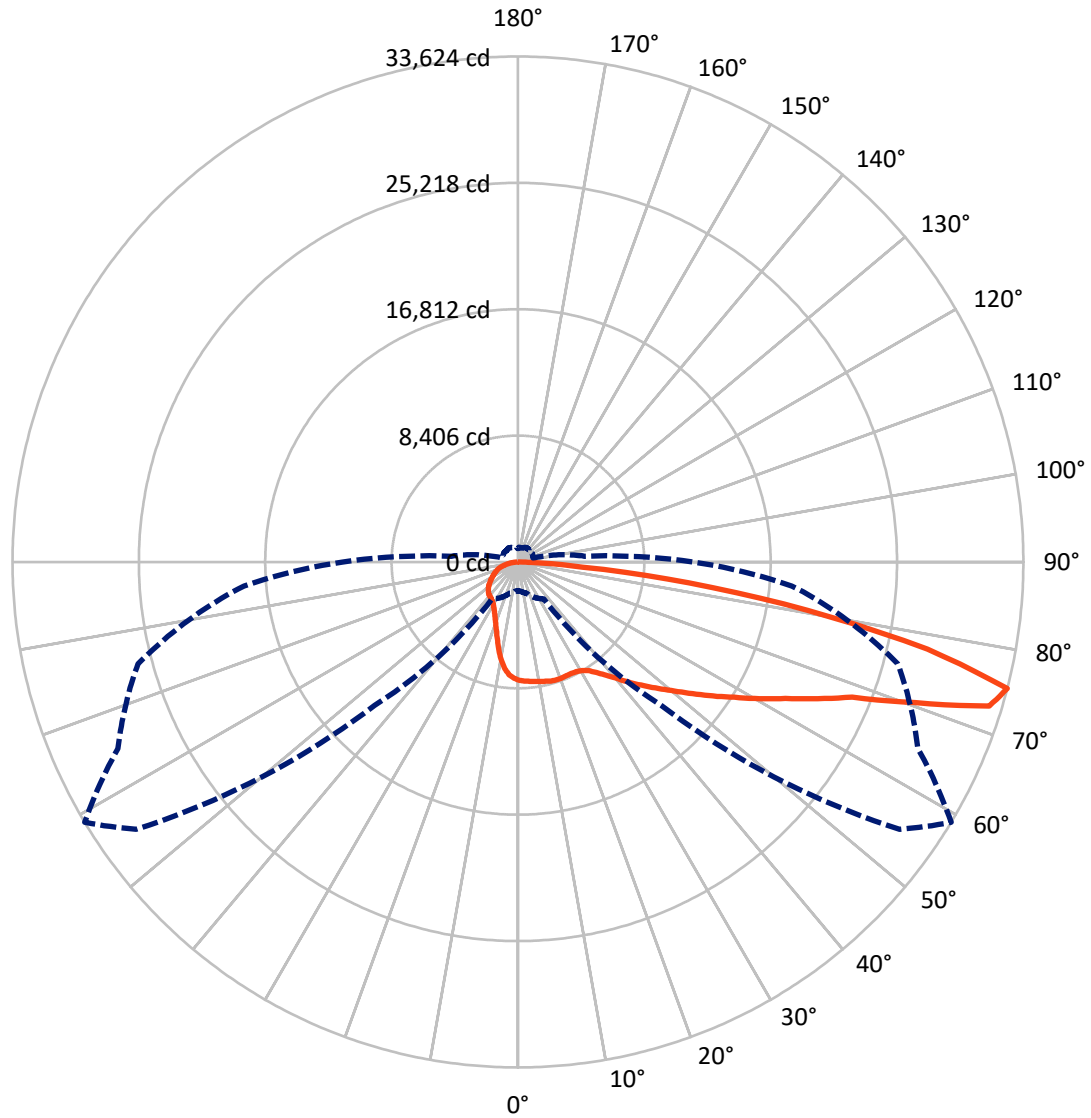
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type IV - Medium - N/A

REPORT NUMBER: P955863
CATALOG NUMBER: GALN-SB8C-940-U-SL3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P955863
 CATALOG NUMBER: GALN-SB8C-940-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8043.9	0.0	8043.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	34844.1	0.0	34844.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	42888.0	0.0	42888.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	705.8	1.6
10°-20°	1804.2	4.2
20°-30°	2740.4	6.4
30°-40°	4073.6	9.5
40°-50°	6058.1	14.1
50°-60°	8223.2	19.2
60°-70°	10039.2	23.4
70°-80°	7878.6	18.4
80°-90°	1364.8	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°	42888.0	100.0
0°-180°	42888.0	100.0

Coefficient of Utilization



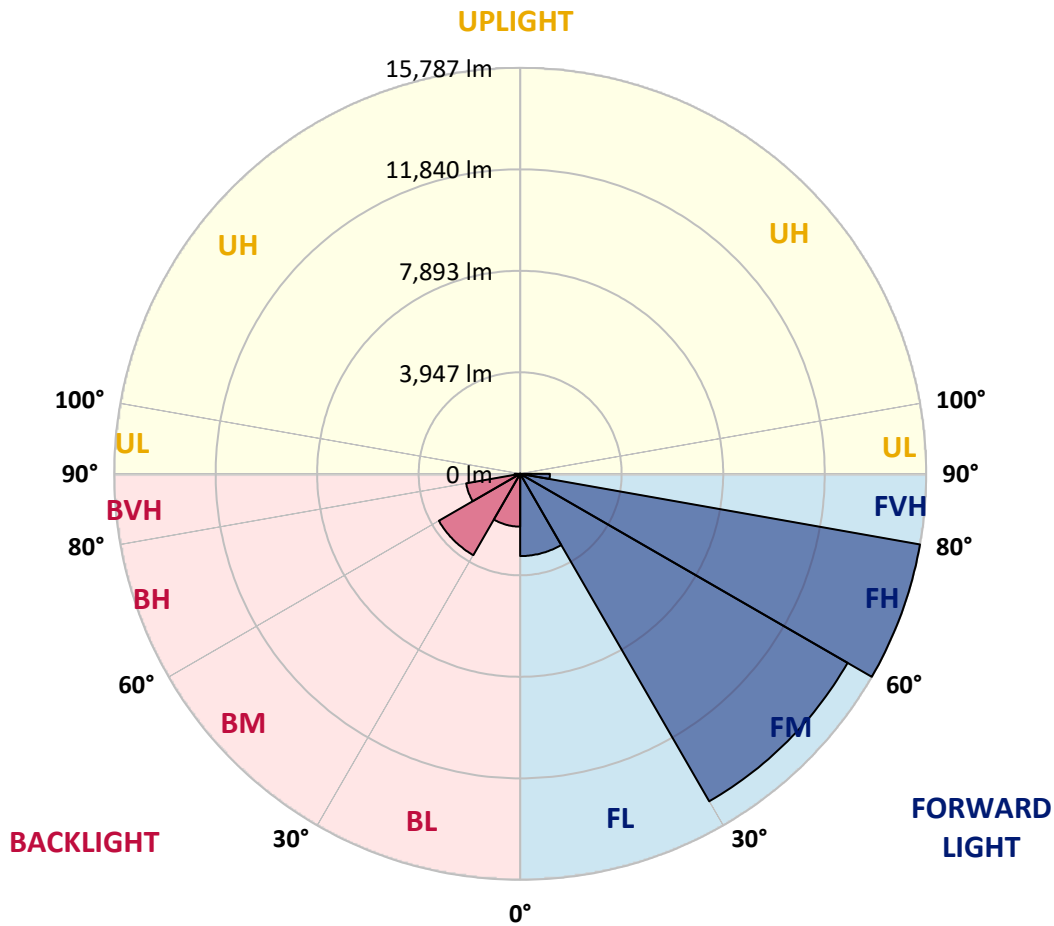
REPORT NUMBER: P955863
 CATALOG NUMBER: GALN-SB8C-940-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3197.8	7.5			
FM (30°-60°)	14703.8	34.3			
FH (60°-80°)	15786.7	36.8			G5
FVH (80°-90°)	1155.9	2.7			G5
BL (0°-30°)	2052.7	4.8	B3/2500		
BM (30°-60°)	3651.1	8.5	B3/5000		
BH (60°-80°)	2131.2	5.0	B3/2500		G3/2500
BVH (80°-90°)	208.9	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: P955863
 CATALOG NUMBER: GALN-SB8C-940-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	7872.0	7872.0	7872.0	7872.0	7872.0	7872.0	7872.0	7872.0	7872.0	7872.0
2.5°	7938.9	7911.2	7938.9	7927.4	7922.8	7913.5	7915.8	7932.0	7922.8	7934.3
5°	7885.8	7869.7	7897.4	7890.5	7920.4	7925.1	7955.1	7973.5	7985.0	7987.4
7.5°	7798.2	7782.0	7821.2	7853.5	7918.1	7936.6	7998.9	8028.9	8045.0	8072.7
10°	7477.5	7470.6	7567.5	7689.7	7842.0	7936.6	8031.2	8081.9	8107.3	8181.2
12.5°	6909.9	6919.1	7046.0	7281.4	7585.9	7890.5	8068.1	8141.9	8181.2	8273.4
15°	6367.7	6365.4	6503.9	6755.3	7182.2	7687.4	8086.6	8213.5	8280.4	8416.5
17.5°	6054.0	6044.7	6141.6	6333.1	6730.0	7376.0	8040.4	8252.7	8395.7	8566.4
20°	5996.3	5977.8	6028.6	6123.2	6404.6	7034.5	7920.4	8252.7	8488.0	8709.5
22.5°	6206.2	6176.2	6155.5	6143.9	6268.5	6753.0	7784.3	8225.0	8624.1	8914.8
25°	6628.4	6582.3	6476.2	6372.3	6335.4	6626.1	7664.4	8218.1	8827.2	9191.7
27.5°	7311.4	7253.7	7039.1	6789.9	6566.1	6690.7	7611.3	8259.6	9051.0	9484.7
30°	8158.1	8095.8	7825.9	7442.9	7041.4	6930.7	7678.2	8381.9	9337.0	9874.6
32.5°	8917.1	8847.9	8617.2	8227.3	7685.1	7346.0	7890.5	8614.9	9786.9	10416.8
35°	9590.8	9510.1	9302.4	8942.5	8474.2	7929.7	8273.4	9027.9	10426.0	11298.1
37.5°	10250.7	10156.1	9930.0	9549.3	9221.7	8707.2	8801.8	9558.5	11275.0	12368.6
40°	10989.0	10852.8	10578.3	10202.2	9883.8	9618.5	9496.2	10209.1	12137.9	13563.7
42.5°	11704.2	11575.0	11247.4	10926.7	10527.5	10451.4	10301.4	10970.5	13081.5	14876.5
45°	12474.8	12320.2	11923.4	11517.3	11265.8	11005.1	11081.2	11731.9	14006.7	16214.7
47.5°	13196.9	13023.9	12555.5	12103.3	11964.9	11471.2	11796.5	12569.4	14968.8	17571.3
50°	13586.8	13416.1	13026.2	12617.8	12509.4	12045.6	12571.7	13489.9	15977.0	18923.2
52.5°	13912.1	13727.5	13217.7	12991.6	12959.3	12670.9	13526.8	14542.0	16985.2	20118.4
55°	14258.2	14052.9	13402.2	13199.2	13346.9	13372.2	14659.6	15734.8	18051.1	21283.5
57.5°	14657.3	14396.6	13579.9	13374.6	13725.2	14193.6	15960.9	16971.4	19098.6	22363.2
60°	15033.4	14770.4	13921.3	13653.7	14133.6	15146.4	17453.6	18468.7	20284.5	23325.3
62.5°	15107.2	14890.3	14193.6	14191.3	14687.3	16258.5	19220.9	19979.9	21320.4	24275.8
65°	13829.1	13692.9	13280.0	14170.5	15481.0	17859.7	21188.9	21913.3	22637.8	25106.4
67.5°	10525.2	10543.7	10513.7	12232.5	14839.6	20159.9	24038.2	23982.8	24264.3	26038.5
70°	4812.7	4921.2	5627.1	8444.2	11888.7	20425.2	28749.4	28031.9	26306.1	27245.1
72.5°	2600.2	2683.2	2971.6	4090.6	7147.6	18159.6	32270.1	32780.0	29021.6	28057.3
75°	1908.0	1954.2	2154.9	2600.2	3001.6	13496.8	31008.1	33624.4	29360.8	26163.1
77.5°	1428.1	1448.9	1612.7	2060.3	1536.6	7115.3	24776.5	27847.3	25134.1	21495.7
80°	1035.9	1059.0	1181.3	1545.8	1077.4	2602.5	17012.9	19546.2	17213.6	13702.2
82.5°	715.2	724.4	777.5	1052.1	752.1	1010.5	9653.1	11461.9	9609.3	4808.1
85°	431.4	443.0	466.0	613.7	426.8	479.9	4166.7	4309.8	2872.4	1149.0
87.5°	177.7	189.2	207.6	258.4	168.4	133.8	687.5	862.9	537.6	336.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955863
 CATALOG NUMBER: GALN-SB8C-940-U-SL3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7872.0	0°	7872.0	7872.0	7872.0	7872.0	7872.0	7872.0	7872.0	7872.0	7872.0	7872.0
7895.1	2.5°	7883.5	7867.4	7823.5	7763.6	7708.2	7639.0	7609.0	7583.6	7560.5	7516.7
7957.4	5°	7932.0	7888.1	7770.5	7618.2	7445.2	7256.0	7071.4	6944.5	6836.1	6755.3
8028.9	7.5°	8005.8	7922.8	7708.2	7396.7	6999.9	6593.8	6227.0	5966.3	5770.2	5698.7
8130.4	10°	8081.9	7982.7	7609.0	7059.9	6374.7	5749.4	5262.6	4995.0	4838.1	4787.3
8250.4	12.5°	8171.9	8026.6	7454.4	6591.5	5675.6	4990.4	4565.9	4409.0	4328.2	4300.5
8398.0	15°	8303.4	8063.5	7221.4	6005.5	5008.8	4436.7	4162.1	4053.7	4012.1	4009.8
8550.3	17.5°	8402.6	8070.4	6859.2	5378.0	4496.6	4102.1	3876.0	3834.5	3862.2	3903.7
8700.3	20°	8513.4	8008.1	6383.9	4805.8	4136.7	3809.1	3714.5	3742.2	3809.1	3869.1
8898.7	22.5°	8591.8	7895.1	5809.4	4360.5	3825.3	3640.7	3636.1	3693.7	3730.7	3760.7
9131.7	25°	8661.0	7703.6	5200.3	3986.8	3569.2	3539.2	3589.9	3571.5	3546.1	3571.5
9364.7	27.5°	8711.8	7401.3	4655.8	3659.1	3389.2	3470.0	3440.0	3398.4	3396.1	3410.0
9639.3	30°	8695.6	6997.6	4208.2	3347.7	3262.3	3340.8	3269.2	3262.3	3255.4	3262.3
10052.3	32.5°	8695.6	6538.5	3864.5	3133.1	3181.6	3151.6	3144.6	3128.5	3100.8	3098.5
10612.9	35°	8744.1	6079.3	3569.2	3017.8	3114.7	3043.1	3047.7	3008.5	2950.8	2923.2
11355.8	37.5°	8843.3	5710.2	3276.2	2962.4	2997.0	2994.7	2976.2	2909.3	2807.8	2720.1
12283.3	40°	9083.3	5601.8	3075.4	2937.0	2941.6	2969.3	2920.9	2791.7	2560.9	2417.9
13224.6	42.5°	9459.3	5784.0	3031.6	2874.7	2904.7	2932.4	2837.8	2537.9	2374.1	2288.7
14212.0	45°	9936.9	6102.4	3126.2	2784.7	2817.0	2865.5	2584.0	2441.0	2367.1	2369.4
15190.3	47.5°	10541.4	6436.9	3301.5	2706.3	2690.1	2717.8	2415.6	2327.9	2226.4	2251.8
16129.3	50°	11240.4	6776.1	3467.6	2600.2	2549.4	2459.4	2307.2	2224.1	2094.9	2034.9
17036.0	52.5°	11997.2	7103.7	3534.6	2471.0	2397.1	2293.3	2233.3	2131.8	1974.9	1875.7
17892.0	55°	12714.7	7401.3	3460.7	2316.4	2244.9	2164.1	2154.9	2092.6	1924.2	1785.7
18653.3	57.5°	13393.0	7650.5	3276.2	2159.5	2090.3	2041.8	2104.1	2074.1	1861.9	1684.2
19373.1	60°	13967.5	7821.2	3008.5	2000.3	1951.8	1926.5	2021.1	2011.8	1774.2	1575.8
20019.1	62.5°	14424.3	7888.1	2713.2	1848.0	1836.5	1790.3	1905.7	1905.7	1663.5	1469.7
20586.7	65°	14781.9	7823.5	2413.3	1698.1	1721.1	1651.9	1765.0	1751.1	1545.8	1375.1
21239.6	67.5°	15098.0	7611.3	2081.0	1550.4	1603.5	1515.8	1617.3	1585.0	1416.6	1280.5
21804.9	70°	15238.7	7117.6	1702.7	1402.7	1467.3	1382.0	1469.7	1409.7	1271.2	1179.0
21184.3	72.5°	14108.2	5915.5	1340.5	1248.2	1303.5	1234.3	1310.5	1241.2	1114.4	1072.8
18293.4	75°	11671.9	4439.0	1031.3	1079.7	1121.3	1068.2	1119.0	1068.2	952.9	982.8
13513.0	77.5°	8476.5	2997.0	789.0	902.1	920.6	892.9	936.7	879.0	775.2	768.3
6734.6	80°	4215.2	1755.7	618.3	712.9	706.0	687.5	738.3	710.6	622.9	659.8
1818.0	82.5°	1220.5	752.1	449.9	500.7	486.8	491.4	528.3	542.2	812.1	805.2
565.3	85°	383.0	295.3	269.9	279.2	265.3	272.2	311.5	618.3	572.2	334.5
175.3	87.5°	99.2	101.5	66.9	71.5	73.8	87.7	99.2	376.1	180.0	117.7
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>
7872.0
7495.9
6688.4
5574.1
4708.9
4307.4
4019.1
3919.8
3889.9
3776.8
3587.6
3433.0
3287.7
3128.5
2950.8
2750.1
2436.4
2288.7
2381.0
2316.4
2051.1
1873.4
1785.7
1675.0
1568.9
1462.7
1365.8
1271.2
1160.5
1038.2
897.5
733.7
652.9
823.7
362.2
124.6
0.0

F REPORT)