

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: P955790

Luminaire Tested: **GALN-SB8C-850-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955790
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-SB8C-850-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 615mA 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: 44619 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

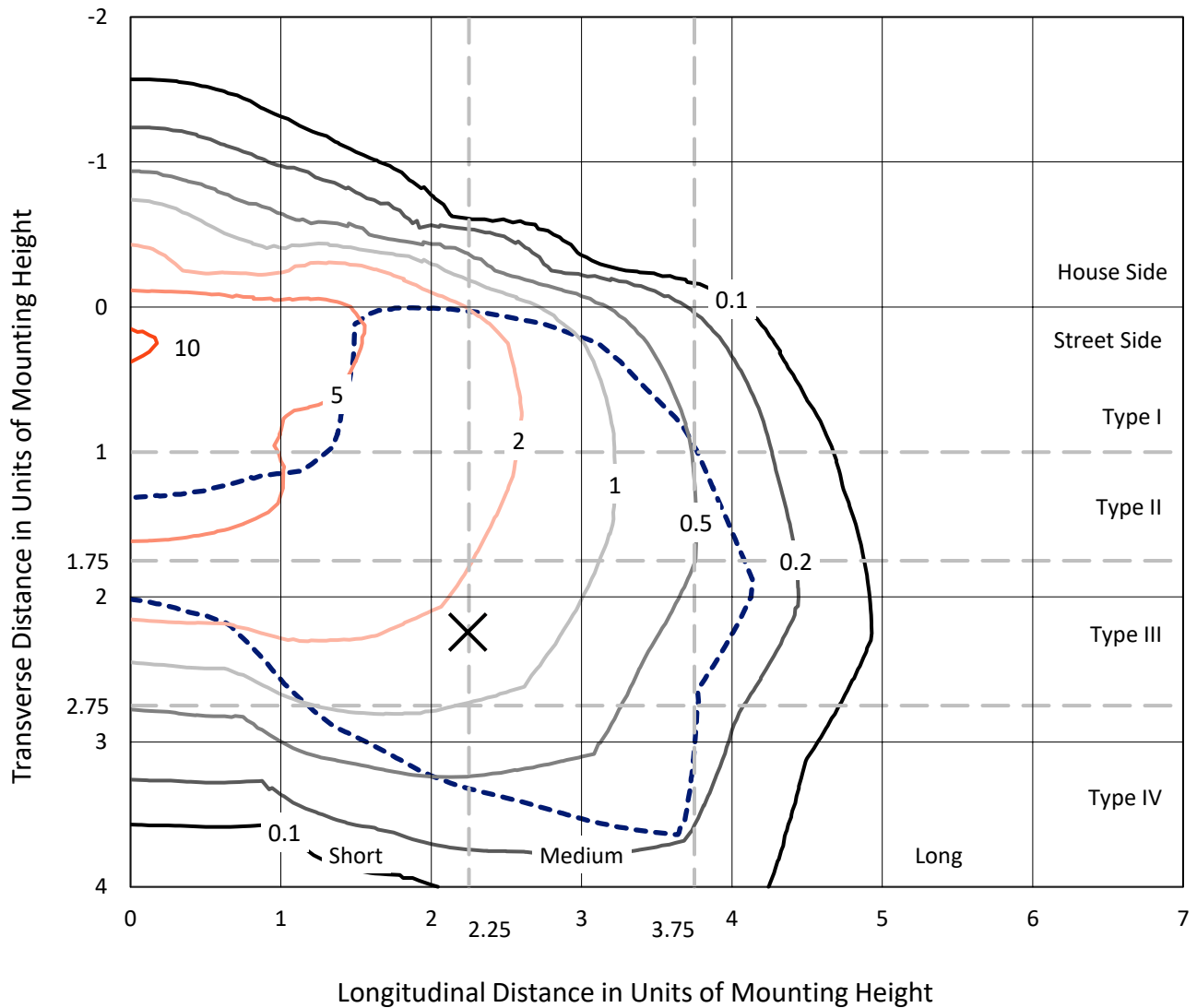
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955790
 CATALOG NUMBER: GALN-SB8C-850-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

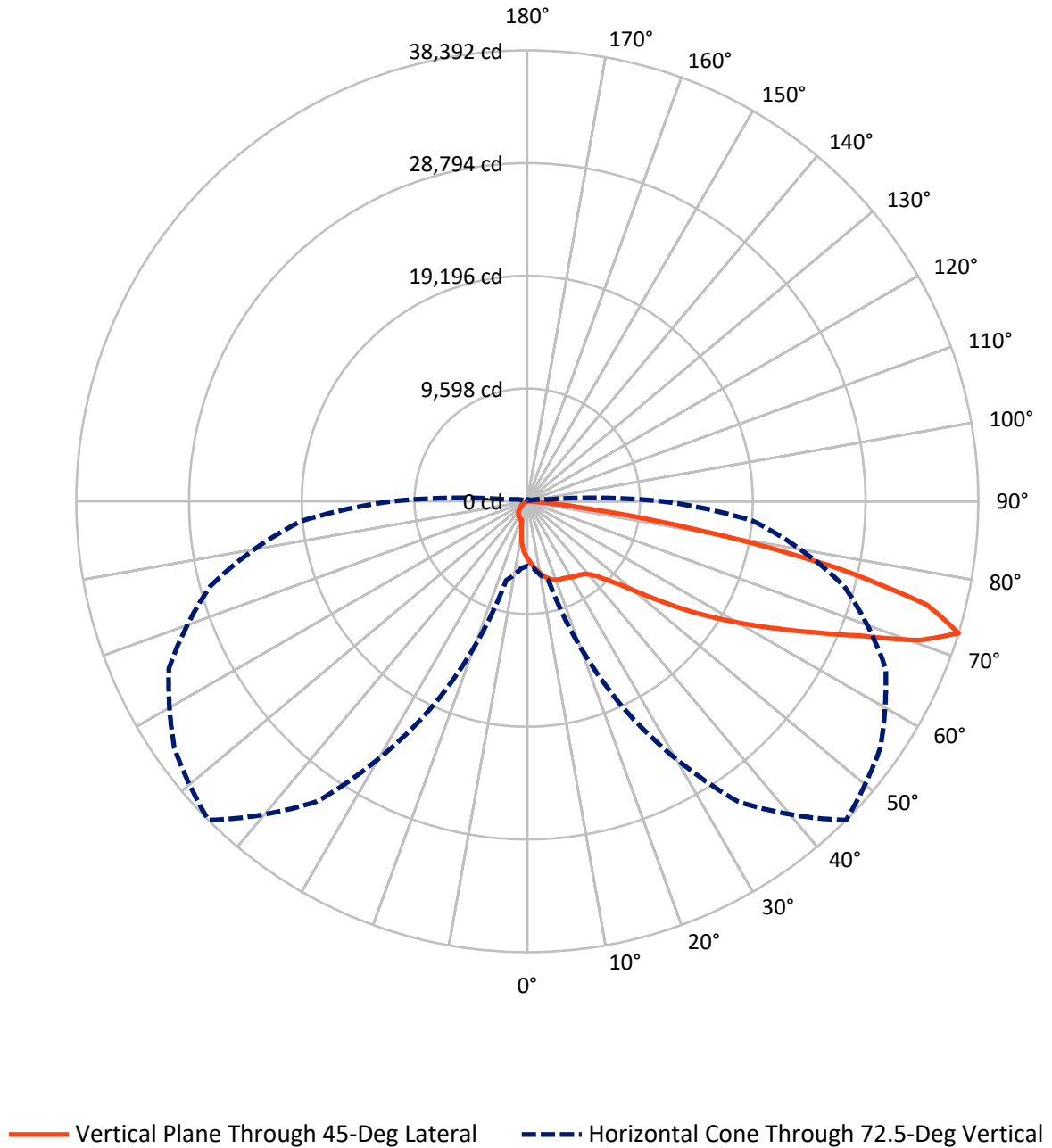
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P955790
CATALOG NUMBER: GALN-SB8C-850-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P955790
 CATALOG NUMBER: GALN-SB8C-850-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4688.2	0.0	4688.2
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	39930.8	0.0	39930.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	44619.0	0.0	44619.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.6	1.0
10°-20°	1346.0	3.0
20°-30°	2210.4	5.0
30°-40°	3134.8	7.0
40°-50°	5181.5	11.6
50°-60°	9308.0	20.9
60°-70°	12924.7	29.0
70°-80°	9375.2	21.0
80°-90°	677.8	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°	44619.0	100.0
0°-180°	44619.0	100.0

Coefficient of Utilization



REPORT NUMBER: P955790

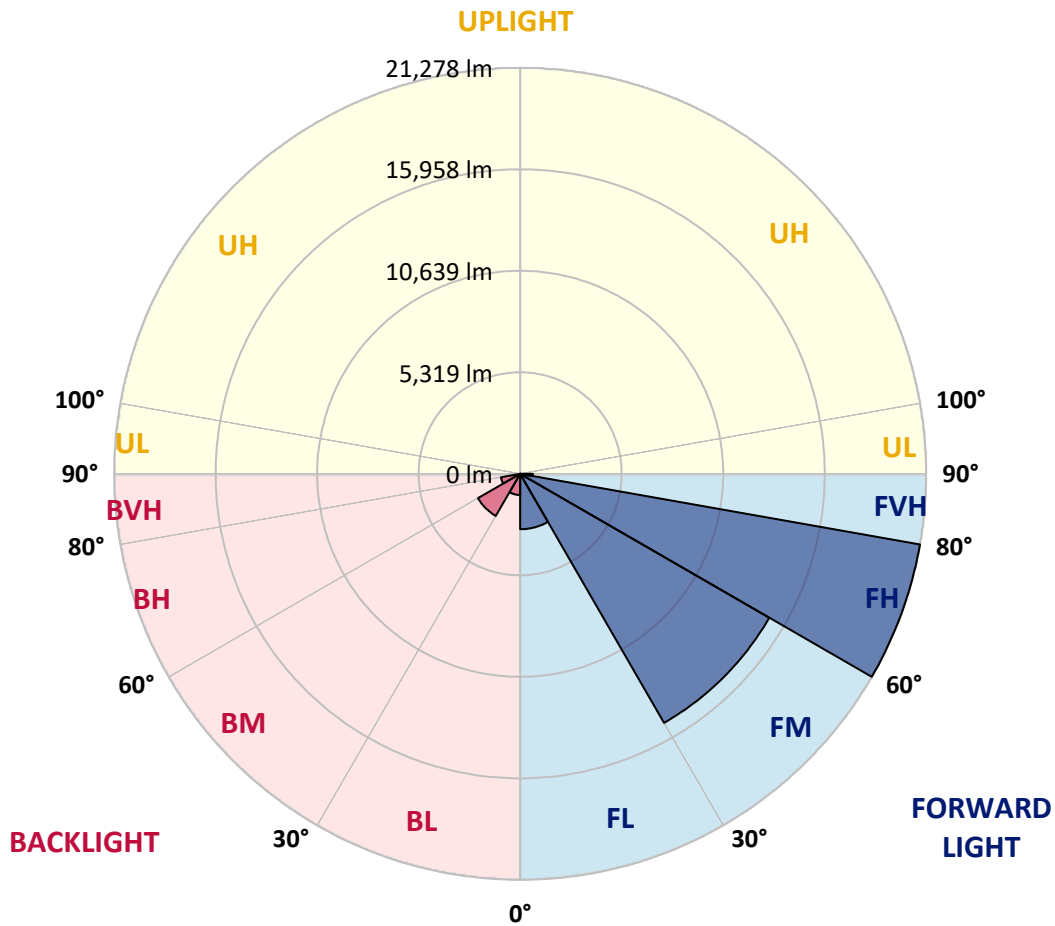
CATALOG NUMBER: GALN-SB8C-850-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2906.5	6.5			
FM (30°-60°)	15074.7	33.8			
FH (60°-80°)	21277.5	47.7			G5
FVH (80°-90°)	672.1	1.5			G4/750
BL (0°-30°)	1110.5	2.5	B3/2500		
BM (30°-60°)	2549.7	5.7	B3/5000		
BH (60°-80°)	1022.4	2.3	B3/2500		G3/2500
BVH (80°-90°)	5.7	0.0			G0/10
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 Short



REPORT NUMBER: P955790

CATALOG NUMBER: GALN-SB8C-850-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4888.1	4888.1	4888.1	4888.1	4888.1	4888.1	4888.1	4888.1	4888.1	4888.1
2.5°	5338.8	5348.0	5341.9	5305.3	5244.4	5210.9	5192.7	5131.8	5092.2	5022.1
5°	5829.2	5865.7	5844.4	5771.3	5655.6	5573.4	5549.0	5424.1	5311.4	5180.5
7.5°	6350.0	6368.2	6328.7	6234.2	6078.9	5938.8	5917.5	5743.9	5564.2	5363.2
10°	6800.7	6822.0	6761.1	6624.1	6447.4	6273.8	6243.4	6051.5	5838.3	5591.6
12.5°	7178.4	7199.7	7120.5	6956.0	6761.1	6581.4	6551.0	6350.0	6115.5	5841.4
15°	7464.6	7504.2	7397.6	7221.0	7010.9	6831.2	6815.9	6618.0	6389.6	6085.0
17.5°	7632.1	7671.7	7571.2	7358.0	7178.4	7026.1	7007.8	6843.3	6630.2	6337.8
20°	7659.6	7696.1	7589.5	7403.7	7254.5	7132.7	7123.5	7004.8	6849.4	6569.2
22.5°	7577.3	7623.0	7525.6	7376.3	7272.8	7208.8	7196.6	7129.6	7041.3	6803.8
25°	7492.1	7528.6	7455.5	7324.5	7269.7	7263.6	7272.8	7260.6	7242.3	7041.3
27.5°	7486.0	7525.6	7443.3	7318.5	7288.0	7352.0	7361.1	7419.0	7434.2	7257.5
30°	7537.7	7565.1	7486.0	7355.0	7339.8	7486.0	7489.0	7592.6	7616.9	7440.3
32.5°	7650.4	7680.9	7601.7	7409.8	7388.5	7592.6	7601.7	7738.7	7778.3	7635.2
35°	7915.4	7951.9	7860.6	7562.1	7486.0	7693.1	7720.5	7881.9	7961.1	7842.3
37.5°	8576.3	8469.7	8344.8	7869.7	7708.3	7851.4	7897.1	8085.9	8226.0	8089.0
40°	10217.8	9882.8	9493.0	8393.5	8098.1	8189.5	8226.0	8414.9	8606.7	8472.7
42.5°	12681.7	12285.7	11658.4	9599.6	8685.9	8731.6	8759.0	8923.5	9194.5	9087.9
45°	14877.5	14734.4	14094.8	11658.4	9785.3	9560.0	9593.5	9678.8	10077.7	10038.1
47.5°	16564.7	16482.5	15989.1	14021.7	11643.1	10574.1	10668.6	10708.2	11283.8	11423.9
50°	17862.1	17831.7	17390.1	16123.1	14070.4	12069.5	12103.0	12017.7	12879.6	13226.8
52.5°	19086.5	19190.0	18864.1	18075.3	16662.2	14027.8	14021.7	13619.7	14783.1	15306.9
55°	20192.0	20228.5	20262.0	20067.1	19269.2	16257.1	16199.3	15541.4	16991.1	17533.2
57.5°	21230.5	21245.8	21544.2	21943.2	21982.8	18650.9	18544.3	17755.6	19403.2	19790.0
60°	21928.0	21998.0	22628.4	23737.0	24221.3	21120.9	21063.0	20259.0	21857.9	22037.6
62.5°	20922.9	21349.3	22939.1	25138.0	26334.9	23858.8	23831.4	23076.1	24440.5	24294.3
65°	16936.3	17658.1	20453.9	26085.1	28408.9	26916.6	26956.2	26152.1	27093.2	26618.1
67.5°	11847.2	12608.6	15916.0	26161.3	30726.5	30507.3	30735.7	29474.8	29910.3	28844.4
70°	8192.5	8585.4	10738.6	24522.8	32532.6	35453.2	35447.1	33555.9	32712.2	29858.6
72.5°	5509.4	5713.5	6974.3	19455.0	31204.7	38392.2	38215.6	36674.5	33656.4	27924.6
75°	2323.8	2473.0	3228.3	10933.5	24687.2	35124.3	34646.2	32410.7	29904.2	21988.9
77.5°	737.0	801.0	1273.0	3913.5	13598.4	26401.9	25896.3	20240.7	20042.8	11031.0
80°	350.2	408.1	715.7	1571.5	5351.0	14359.8	14289.7	9182.3	8621.9	2978.5
82.5°	152.3	179.7	395.9	840.6	2393.8	5122.6	5226.2	3124.7	2585.7	1129.9
85°	48.7	64.0	182.7	386.8	1011.1	1273.0	1257.8	743.1	1041.6	615.2
87.5°	0.0	0.0	60.9	88.3	103.5	73.1	82.2	64.0	289.3	170.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955790
 CATALOG NUMBER: GALN-SB8C-850-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4888.1	0°	4888.1	4888.1	4888.1	4888.1	4888.1	4888.1	4888.1	4888.1	4888.1	4888.1
4949.0	2.5°	4912.5	4863.7	4778.5	4699.3	4629.2	4559.2	4516.5	4455.6	4449.5	4449.5
5028.2	5°	4946.0	4866.8	4714.5	4553.1	4367.3	4190.7	4014.0	3843.5	3788.7	3749.1
5156.1	7.5°	5043.4	4918.6	4678.0	4370.4	4017.1	3630.3	3359.2	3066.9	2954.2	2893.3
5326.7	10°	5183.5	5013.0	4647.5	4108.4	3535.9	3009.0	2622.2	2305.5	2183.7	2131.9
5512.4	12.5°	5338.8	5128.7	4592.7	3782.6	3009.0	2378.6	2000.9	1854.7	1836.5	1836.5
5734.8	15°	5524.6	5268.8	4498.3	3398.8	2457.8	1882.1	1748.1	1754.2	1772.5	1784.7
5951.0	17.5°	5716.5	5418.0	4349.0	2969.4	1970.5	1693.3	1696.4	1705.5	1720.7	1732.9
6185.5	20°	5923.6	5567.3	4151.1	2512.6	1690.3	1638.5	1647.6	1656.8	1669.0	1675.1
6404.8	22.5°	6145.9	5707.4	3916.6	2064.9	1595.9	1592.8	1595.9	1605.0	1620.2	1620.2
6660.6	25°	6383.5	5862.7	3648.6	1739.0	1547.1	1547.1	1553.2	1559.3	1571.5	1571.5
6907.3	27.5°	6627.1	6005.8	3365.3	1568.5	1504.5	1501.5	1501.5	1510.6	1516.7	1519.7
7150.9	30°	6895.1	6173.3	3082.1	1531.9	1471.0	1455.8	1446.6	1452.7	1458.8	1461.9
7406.8	32.5°	7169.2	6334.7	2829.3	1547.1	1437.5	1410.1	1379.6	1373.5	1373.5	1385.7
7671.7	35°	7473.8	6511.4	2634.4	1598.9	1419.2	1343.1	1294.4	1266.9	1270.0	1288.3
7988.5	37.5°	7839.2	6724.6	2491.3	1644.6	1407.0	1266.9	1187.8	1154.3	1132.9	1154.3
8424.0	40°	8317.4	7038.3	2387.7	1681.1	1391.8	1178.6	1072.0	1017.2	977.6	989.8
9100.1	42.5°	9020.9	7531.6	2348.1	1684.2	1358.3	1075.1	953.3	880.2	822.3	825.3
10117.3	45°	10007.7	8311.3	2552.2	1644.6	1285.2	962.4	828.4	730.9	694.4	685.2
11637.0	47.5°	11359.9	9447.3	3024.2	1562.4	1178.6	852.8	706.6	624.3	596.9	581.7
13631.9	50°	13172.0	10906.1	3548.1	1471.0	1072.0	749.2	606.1	554.3	536.0	520.8
15998.3	52.5°	15273.4	12386.2	3977.5	1379.6	965.4	657.8	542.1	511.7	496.4	484.2
18282.4	55°	17201.3	13406.5	3953.1	1282.2	861.9	584.7	496.4	478.2	459.9	447.7
20249.9	57.5°	18401.2	13549.6	3258.7	1175.6	743.1	526.9	453.8	441.6	420.3	405.1
21952.3	60°	18952.5	12733.4	2284.2	1035.5	624.3	472.1	408.1	402.0	374.6	353.3
23563.4	62.5°	19053.0	11216.8	1522.8	861.9	520.8	420.3	362.4	353.3	316.7	280.2
24873.0	65°	18644.9	9048.3	1053.8	673.1	444.7	365.5	310.6	292.4	252.8	216.2
25183.6	67.5°	17353.5	6353.0	734.0	484.2	377.6	289.3	246.7	240.6	210.1	179.7
23600.0	70°	14987.1	3621.2	490.3	362.4	298.5	198.0	194.9	201.0	170.6	146.2
19281.4	72.5°	11490.9	1656.8	304.6	265.0	204.1	134.0	155.3	158.4	131.0	109.6
12029.9	75°	6764.2	709.6	191.9	170.6	103.5	88.3	112.7	115.7	88.3	70.0
4397.8	77.5°	2302.4	268.0	121.8	100.5	51.8	48.7	73.1	73.1	48.7	27.4
883.2	80°	523.8	100.5	60.9	39.6	24.4	21.3	24.4	21.3	12.2	3.0
271.1	82.5°	149.2	39.6	24.4	15.2	9.1	9.1	3.0	0.0	0.0	0.0
94.4	85°	42.6	18.3	6.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0
33.5	87.5°	18.3	3.0	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>
4888.1
4464.8
3767.3
2902.4
2131.9
1836.5
1784.7
1732.9
1678.1
1626.3
1574.5
1522.8
1468.0
1394.9
1297.4
1148.2
983.7
813.2
673.1
572.6
517.7
481.2
441.6
402.0
347.2
261.9
204.1
170.6
134.0
97.5
60.9
21.3
0.0
0.0
0.0
0.0
0.0

F REPORT)