

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: P955779

Luminaire Tested: **GALN-SB8C-850-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955779
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-850-U-SL3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 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: 56612 lumens
Efficiency: N/A
Efficacy: 141.6 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

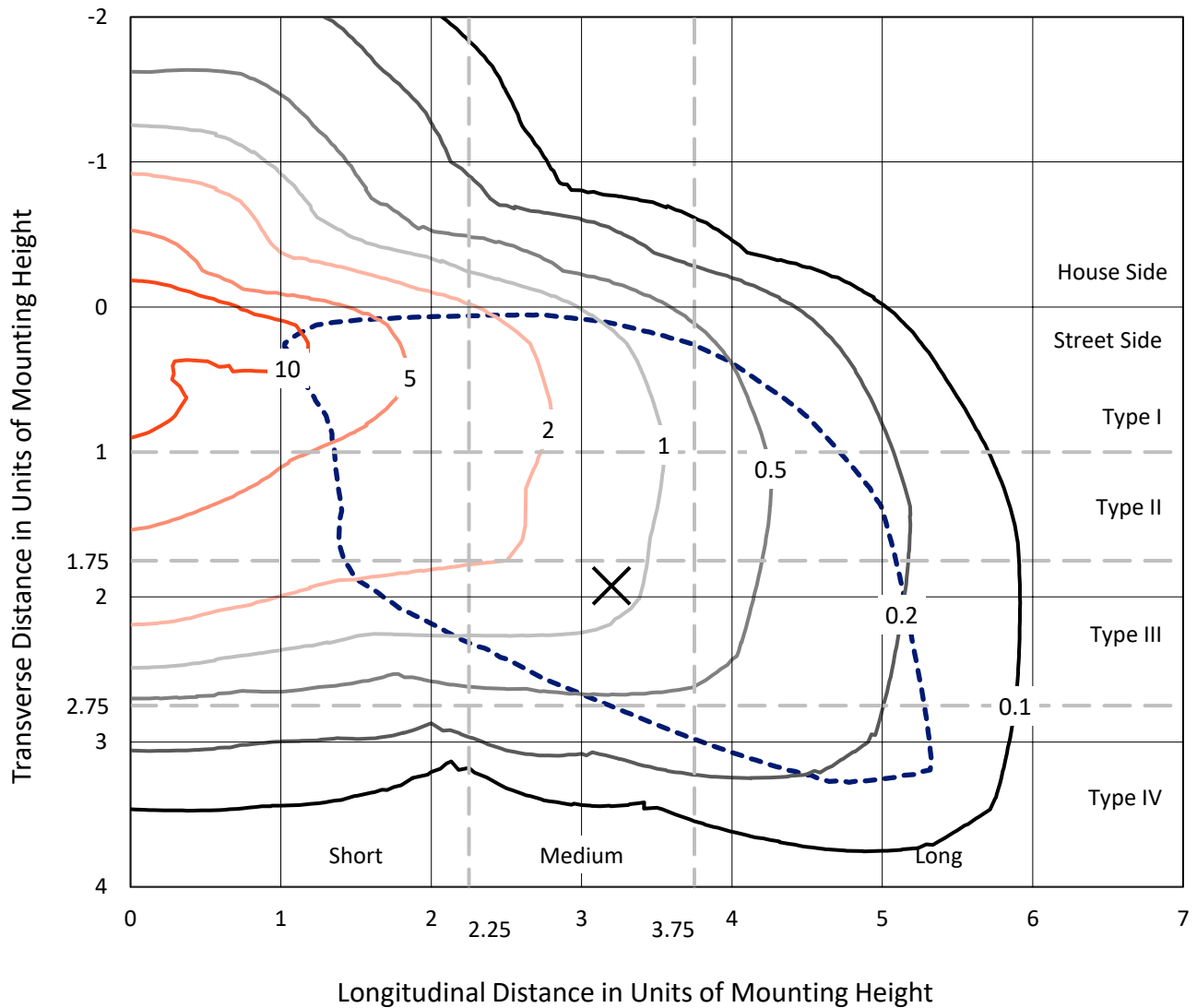
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955779
 CATALOG NUMBER: GALN-SB8C-850-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

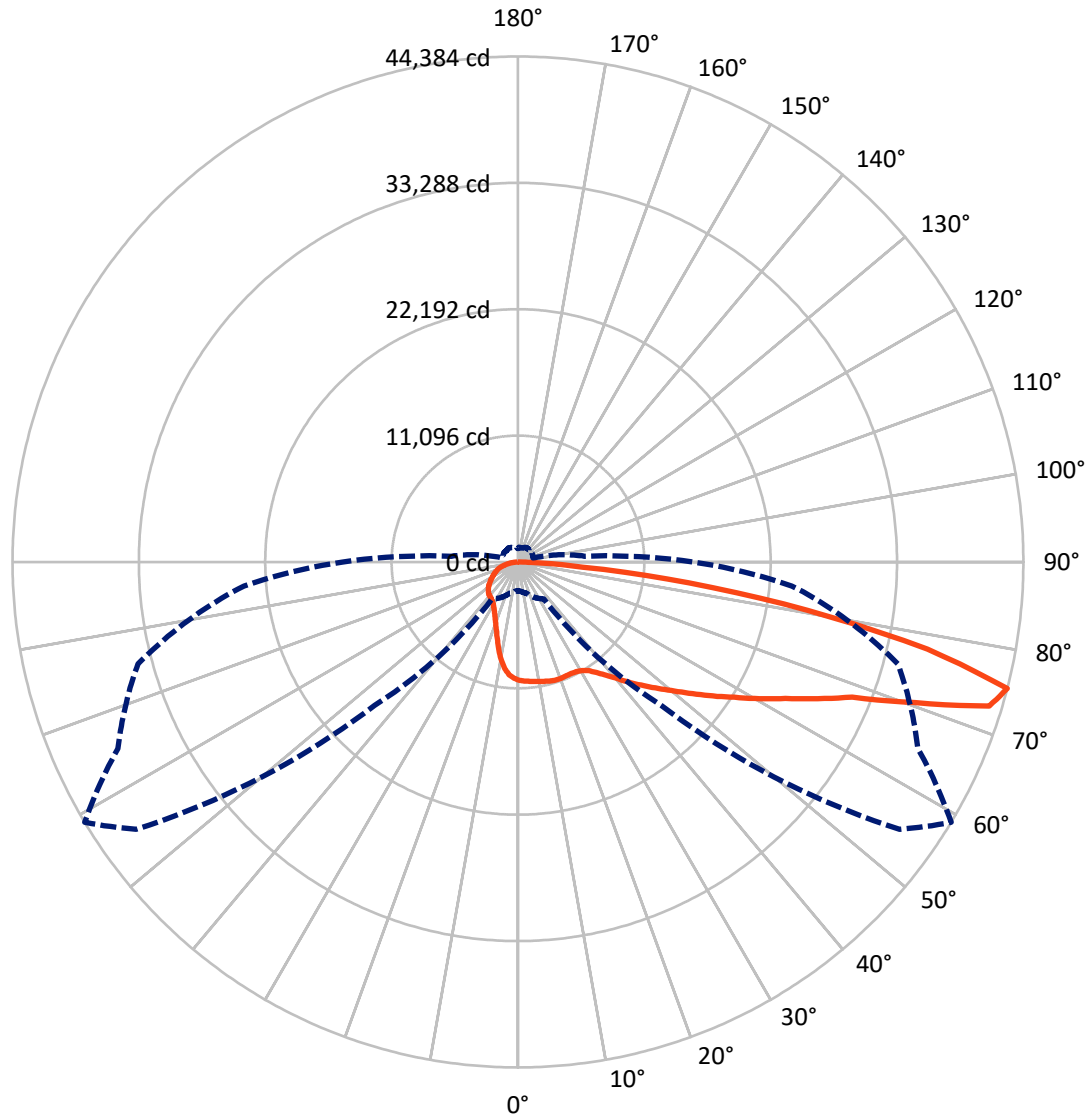
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type IV - Medium - N/A

REPORT NUMBER: P955779
CATALOG NUMBER: GALN-SB8C-850-U-SL3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P955779
 CATALOG NUMBER: GALN-SB8C-850-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10618.0	0.0	10618.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	45994.0	0.0	45994.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	56612.0	0.0	56612.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	931.7	1.6
10°-20°	2381.5	4.2
20°-30°	3617.4	6.4
30°-40°	5377.1	9.5
40°-50°	7996.7	14.1
50°-60°	10854.6	19.2
60°-70°	13251.7	23.4
70°-80°	10399.7	18.4
80°-90°	1801.5	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°	56612.0	100.0
0°-180°	56612.0	100.0

Coefficient of Utilization

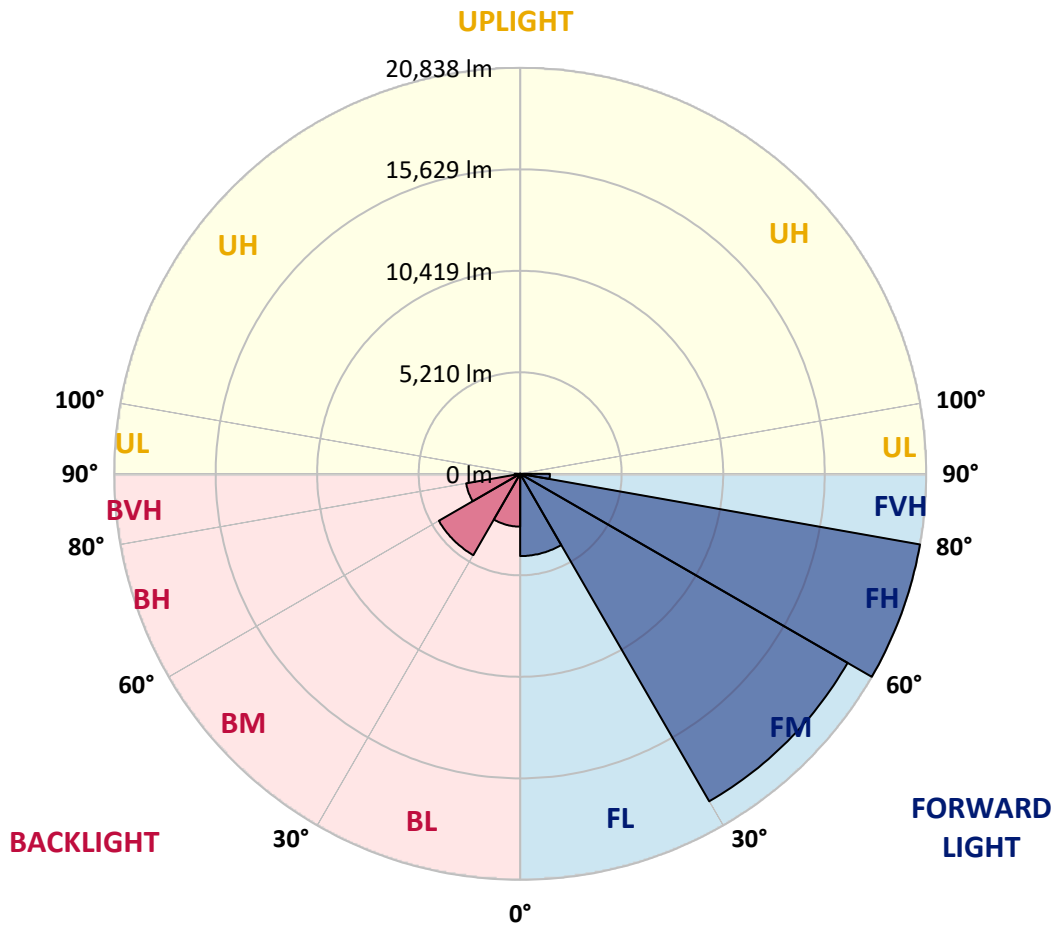


REPORT NUMBER: P955779
 CATALOG NUMBER: GALN-SB8C-850-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4221.0	7.5			
FM (30°-60°)	19408.9	34.3			
FH (60°-80°)	20838.3	36.8			G5
FVH (80°-90°)	1525.7	2.7			G5
BL (0°-30°)	2709.6	4.8	B4/5000		
BM (30°-60°)	4819.5	8.5	B3/5000		
BH (60°-80°)	2813.1	5.0	B4/5000		G4/5000
BVH (80°-90°)	275.8	0.5			G3/500
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: P955779
 CATALOG NUMBER: GALN-SB8C-850-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	10391.0	10391.0	10391.0	10391.0	10391.0	10391.0	10391.0	10391.0	10391.0	10391.0
2.5°	10479.3	10442.8	10479.3	10464.1	10458.0	10445.8	10448.9	10470.2	10458.0	10473.2
5°	10409.3	10388.0	10424.5	10415.4	10455.0	10461.1	10500.6	10525.0	10540.2	10543.3
7.5°	10293.6	10272.2	10324.0	10366.6	10451.9	10476.3	10558.5	10598.1	10619.4	10656.0
10°	9870.2	9861.1	9989.0	10150.4	10351.4	10476.3	10601.1	10668.1	10701.6	10799.1
12.5°	9121.1	9133.2	9300.7	9611.4	10013.4	10415.4	10649.9	10747.3	10799.1	10920.9
15°	8405.4	8402.3	8585.1	8917.0	9480.4	10147.4	10674.2	10841.7	10930.0	11109.7
17.5°	7991.2	7979.0	8106.9	8359.7	8883.5	9736.2	10613.3	10893.5	11082.3	11307.7
20°	7915.1	7890.7	7957.7	8082.6	8454.1	9285.5	10455.0	10893.5	11204.1	11496.5
22.5°	8192.2	8152.6	8125.2	8110.0	8274.4	8914.0	10275.3	10857.0	11383.8	11767.5
25°	8749.5	8688.6	8548.5	8411.5	8362.8	8746.5	10116.9	10847.8	11651.8	12133.0
27.5°	9651.0	9574.8	9291.6	8962.7	8667.3	8831.7	10046.9	10902.6	11947.2	12519.8
30°	10768.6	10686.4	10330.1	9824.6	9294.7	9148.5	10135.2	11064.0	12324.9	13034.4
32.5°	11770.6	11679.2	11374.7	10860.0	10144.3	9696.6	10415.4	11371.6	12918.7	13750.1
35°	12659.9	12553.3	12279.2	11804.1	11185.9	10467.1	10920.9	11916.8	13762.3	14913.5
37.5°	13530.8	13406.0	13107.5	12605.0	12172.6	11493.5	11618.3	12617.2	14883.0	16326.5
40°	14505.4	14325.7	13963.3	13466.9	13046.6	12696.4	12535.0	13476.0	16022.0	17904.1
42.5°	15449.5	15278.9	14846.5	14423.2	13896.3	13795.8	13597.8	14481.0	17267.6	19636.9
45°	16466.6	16262.6	15738.8	15202.8	14870.8	14526.7	14627.2	15486.0	18488.8	21403.3
47.5°	17419.9	17191.5	16573.2	15976.3	15793.6	15141.9	15571.3	16591.5	19758.7	23194.0
50°	17934.5	17709.2	17194.5	16655.5	16512.3	15900.2	16594.5	17806.6	21089.6	24978.6
52.5°	18363.9	18120.3	17447.3	17148.8	17106.2	16725.5	17855.4	19195.3	22420.5	26556.1
55°	18820.8	18549.7	17690.9	17422.9	17617.8	17651.3	19350.7	20769.8	23827.4	28094.1
57.5°	19347.6	19003.5	17925.4	17654.4	18117.3	18735.5	21068.3	22402.2	25210.1	29519.4
60°	19844.0	19496.8	18376.1	18022.9	18656.3	19993.2	23038.7	24378.7	26775.4	30789.3
62.5°	19941.5	19655.2	18735.5	18732.4	19387.2	21461.1	25371.5	26373.4	28142.8	32044.0
65°	18254.3	18074.6	17529.5	18705.0	20434.8	23574.7	27969.2	28925.5	29881.8	33140.4
67.5°	13893.3	13917.6	13878.0	16146.9	19588.2	26611.0	31730.3	31657.2	32028.8	34370.7
70°	6352.8	6495.9	7427.8	11146.3	15693.1	26961.2	37949.1	37002.0	34724.0	35963.5
72.5°	3432.2	3541.8	3922.5	5399.5	9434.7	23970.6	42596.4	43269.5	38308.5	37035.5
75°	2518.6	2579.5	2844.4	3432.2	3962.1	17815.8	40930.6	44384.1	38756.1	34535.2
77.5°	1885.1	1912.5	2128.8	2719.6	2028.3	9392.1	32704.9	36758.3	33176.9	28374.3
80°	1367.4	1397.9	1559.3	2040.4	1422.2	3435.2	22457.0	25800.9	22722.0	18086.8
82.5°	944.1	956.3	1026.3	1388.7	992.8	1333.9	12742.1	15129.7	12684.2	6346.7
85°	569.5	584.7	615.2	810.1	563.4	633.4	5500.0	5688.9	3791.6	1516.6
87.5°	234.5	249.7	274.1	341.1	222.3	176.6	907.5	1139.0	709.6	444.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955779
 CATALOG NUMBER: GALN-SB8C-850-U-SL3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
10391.0	0°	10391.0	10391.0	10391.0	10391.0	10391.0	10391.0	10391.0	10391.0	10391.0	10391.0
10421.5	2.5°	10406.2	10384.9	10327.1	10247.9	10174.8	10083.4	10043.8	10010.3	9979.9	9922.0
10503.7	5°	10470.2	10412.3	10257.0	10056.0	9827.6	9577.9	9334.2	9166.7	9023.6	8917.0
10598.1	7.5°	10567.6	10458.0	10174.8	9763.6	9239.8	8703.8	8219.6	7875.5	7616.6	7522.2
10732.1	10°	10668.1	10537.2	10043.8	9319.0	8414.5	7589.2	6946.6	6593.4	6386.3	6319.3
10890.5	12.5°	10786.9	10595.1	9839.8	8700.8	7491.8	6587.3	6026.9	5819.8	5713.2	5676.7
11085.4	15°	10960.5	10643.8	9532.2	7927.3	6611.6	5856.4	5494.0	5350.8	5296.0	5293.0
11286.4	17.5°	11091.5	10652.9	9054.1	7098.9	5935.5	5414.8	5116.3	5061.5	5098.0	5152.9
11484.3	20°	11237.6	10570.7	8426.7	6343.6	5460.5	5028.0	4903.1	4939.7	5028.0	5107.2
11746.2	22.5°	11341.2	10421.5	7668.4	5755.9	5049.3	4805.7	4799.6	4875.7	4924.5	4964.1
12053.8	25°	11432.5	10168.7	6864.4	5262.5	4711.3	4671.7	4738.7	4714.3	4680.8	4714.3
12361.4	27.5°	11499.5	9769.7	6145.7	4830.1	4473.7	4580.3	4540.7	4485.9	4482.9	4501.1
12723.8	30°	11478.2	9236.8	5554.9	4418.9	4306.2	4409.8	4315.4	4306.2	4297.1	4306.2
13268.9	32.5°	11478.2	8630.7	5101.1	4135.7	4199.6	4160.1	4150.9	4129.6	4093.1	4090.0
14009.0	35°	11542.2	8024.7	4711.3	3983.4	4111.3	4016.9	4023.0	3971.2	3895.1	3858.6
14989.6	37.5°	11673.1	7537.4	4324.5	3910.3	3956.0	3953.0	3928.6	3840.3	3706.3	3590.6
16213.9	40°	11989.9	7394.3	4059.6	3876.8	3882.9	3919.5	3855.5	3685.0	3380.4	3191.6
17456.4	42.5°	12486.3	7634.9	4001.7	3794.6	3834.2	3870.7	3745.9	3350.0	3133.7	3021.1
18759.8	45°	13116.7	8055.2	4126.6	3675.8	3718.5	3782.4	3410.9	3222.1	3124.6	3127.7
20051.1	47.5°	13914.6	8496.7	4358.0	3572.3	3551.0	3587.5	3188.6	3072.8	2938.8	2972.3
21290.6	50°	14837.3	8944.4	4577.3	3432.2	3365.2	3246.4	3045.4	2935.8	2765.3	2686.1
22487.5	52.5°	15836.2	9376.9	4665.6	3261.7	3164.2	3027.2	2948.0	2814.0	2606.9	2475.9
23617.3	55°	16783.4	9769.7	4568.1	3057.6	2963.2	2856.6	2844.4	2762.2	2539.9	2357.2
24622.3	57.5°	17678.7	10098.6	4324.5	2850.5	2759.2	2695.2	2777.4	2737.8	2457.7	2223.2
25572.5	60°	18437.0	10324.0	3971.2	2640.4	2576.4	2542.9	2667.8	2655.6	2341.9	2080.0
26425.2	62.5°	19040.0	10412.3	3581.4	2439.4	2424.2	2363.3	2515.5	2515.5	2195.8	1939.9
27174.4	65°	19512.1	10327.1	3185.5	2241.4	2271.9	2180.5	2329.8	2311.5	2040.4	1815.1
28036.2	67.5°	19929.3	10046.9	2747.0	2046.5	2116.6	2000.8	2134.8	2092.2	1869.9	1690.2
28782.4	70°	20115.1	9395.2	2247.5	1851.6	1936.9	1824.2	1939.9	1860.8	1678.0	1556.2
27963.1	72.5°	18622.8	7808.5	1769.4	1647.6	1720.7	1629.3	1729.8	1638.4	1470.9	1416.1
24147.2	75°	15406.8	5859.4	1361.3	1425.3	1480.1	1410.0	1477.0	1410.0	1257.8	1297.4
17837.1	77.5°	11188.9	3956.0	1041.5	1190.8	1215.1	1178.6	1236.4	1160.3	1023.3	1014.1
8889.6	80°	5564.0	2317.6	816.2	941.0	931.9	907.5	974.5	938.0	822.3	871.0
2399.8	82.5°	1611.0	992.8	593.9	660.9	642.6	648.7	697.4	715.7	1072.0	1062.9
746.1	85°	505.5	389.8	356.3	368.5	350.2	359.4	411.1	816.2	755.3	441.6
231.5	87.5°	131.0	134.0	88.3	94.4	97.5	115.7	131.0	496.4	237.5	155.3
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

180°
10391.0
9894.6
8828.7
7357.8
6215.7
5685.8
5305.1
5174.2
5134.6
4985.4
4735.6
4531.6
4339.7
4129.6
3895.1
3630.2
3216.0
3021.1
3142.9
3057.6
2707.4
2472.9
2357.2
2211.0
2070.9
1930.8
1802.9
1678.0
1531.9
1370.4
1184.7
968.4
861.9
1087.2
478.1
164.5
0.0

F REPORT)