

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: P943716

Luminaire Tested: **GALN-SB8B-827-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943716  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8B-827-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

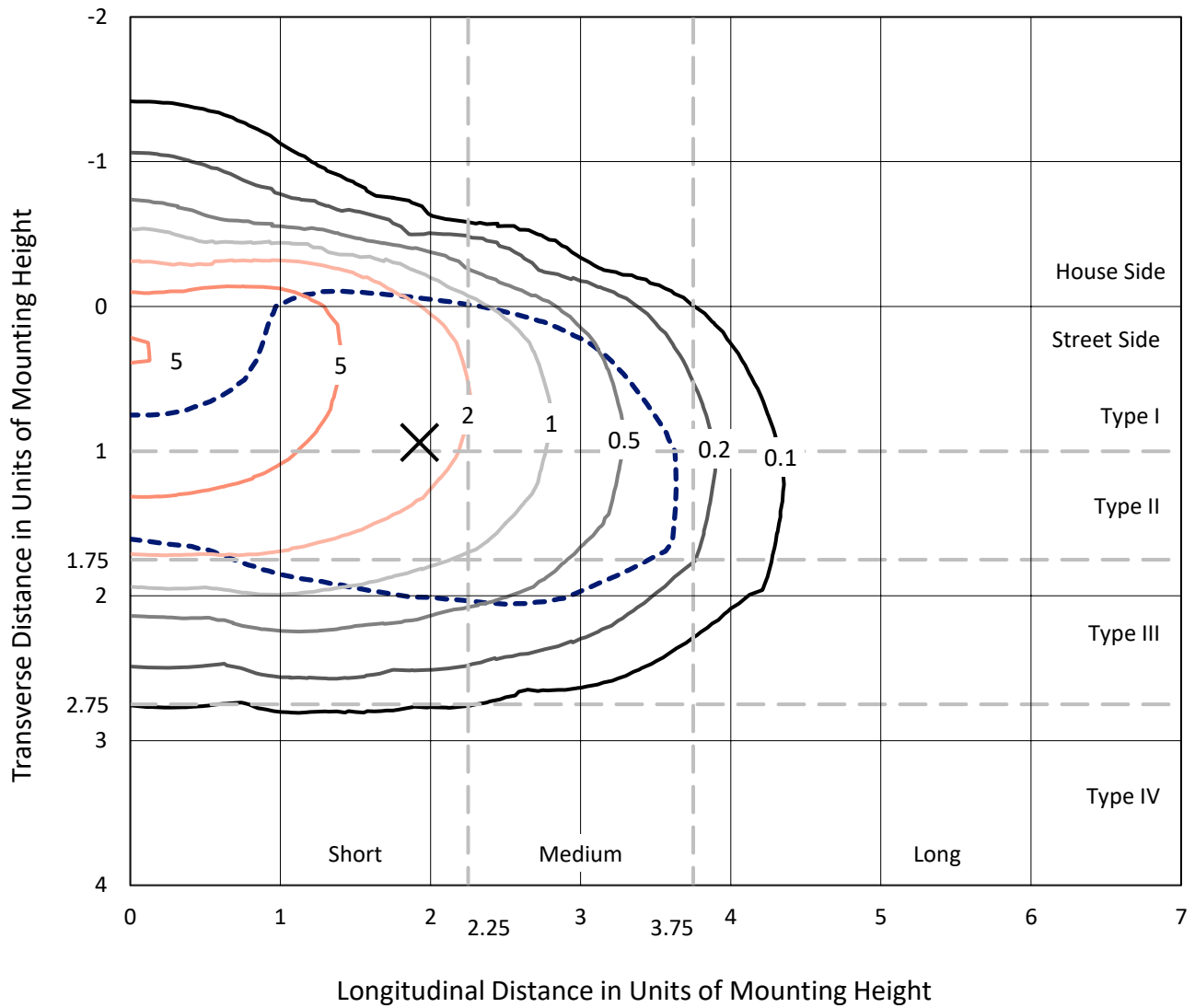
Lumens per Lamp: N/A  
Luminaire Lumens: 31053 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): 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: P943716  
 CATALOG NUMBER: GALN-SB8B-827-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

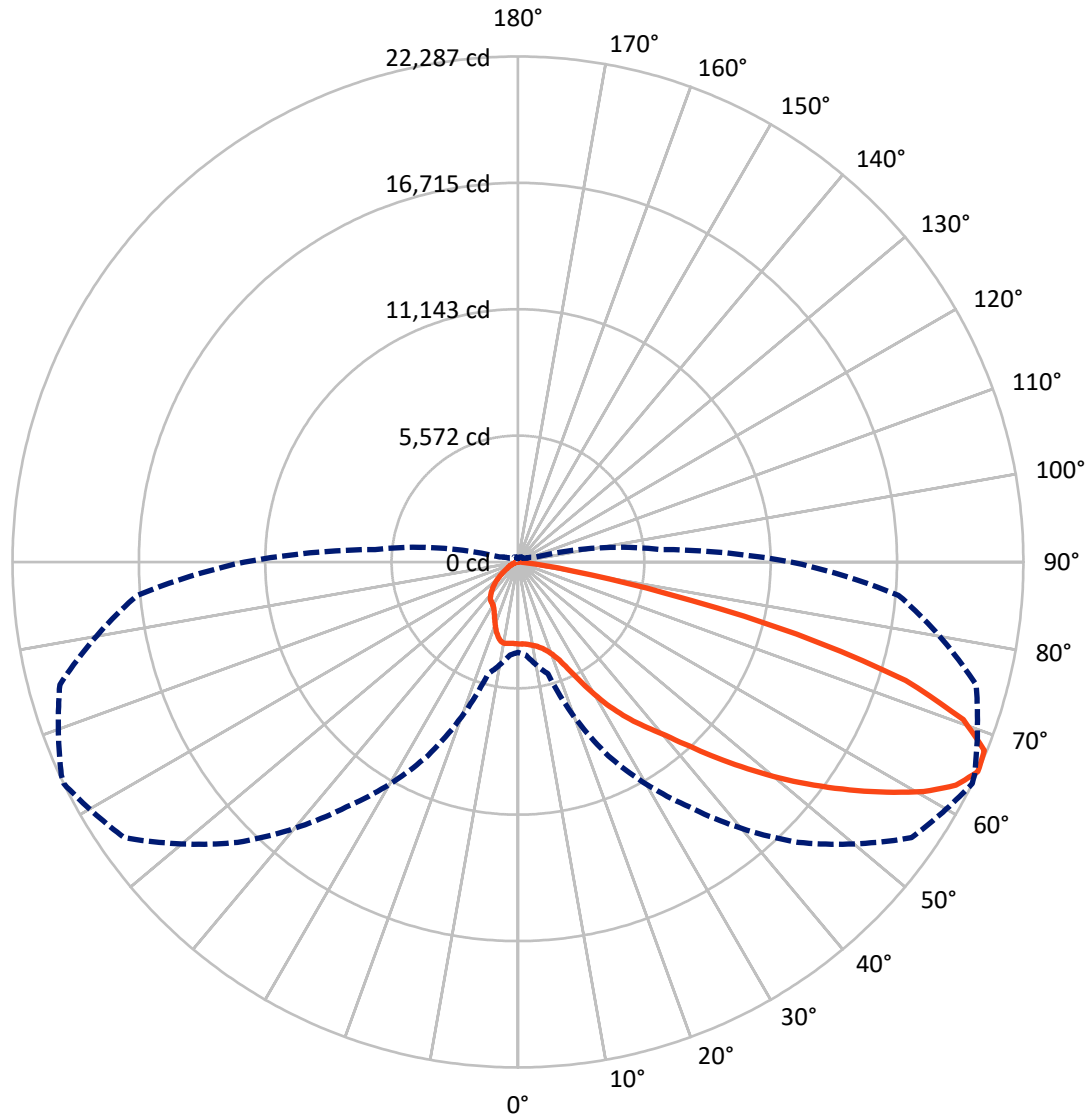
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
 Type III - Short - N/A

REPORT NUMBER: P943716  
CATALOG NUMBER: GALN-SB8B-827-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P943716

CATALOG NUMBER: GALN-SB8B-827-U-T3-HSS

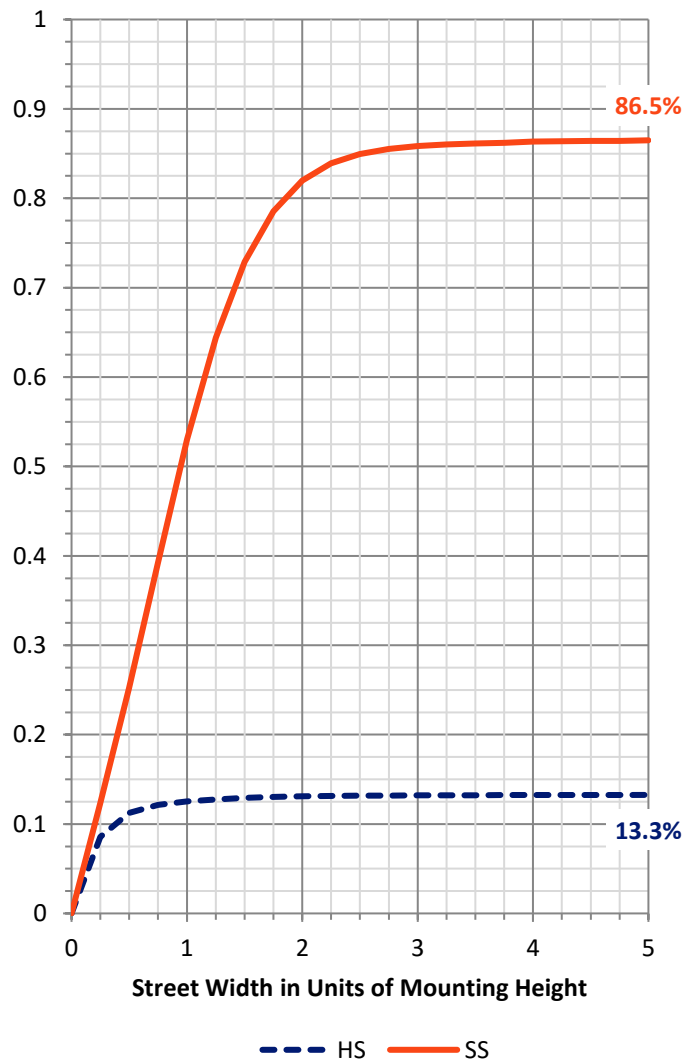
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4152.7	0.0	4152.7
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	26900.3	0.0	26900.3
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	31053.0	0.0	31053.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	333.2	1.1
10°-20°	903.8	2.9
20°-30°	1712.6	5.5
30°-40°	3465.5	11.2
40°-50°	5903.6	19.0
50°-60°	8028.4	25.9
60°-70°	7539.1	24.3
70°-80°	3020.5	9.7
80°-90°	146.3	0.5
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°	31053.0	100.0
0°-180°	31053.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P943716

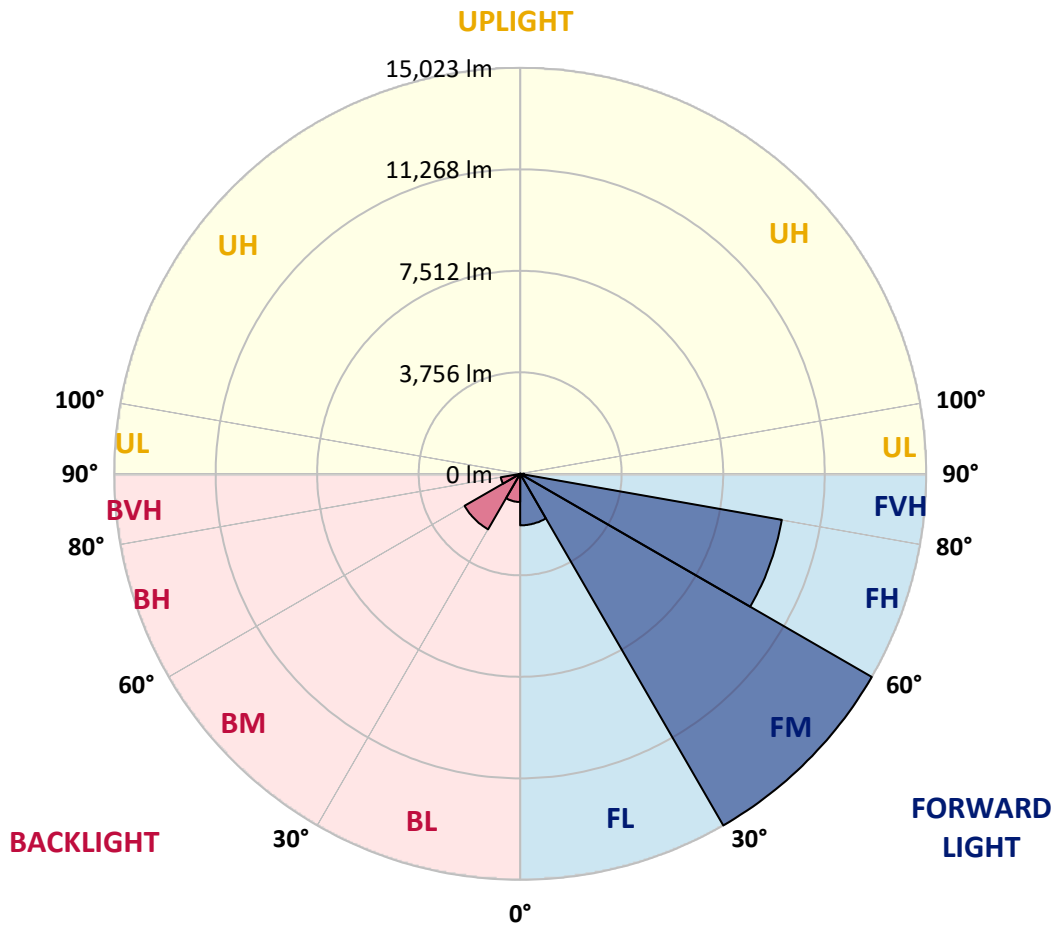
CATALOG NUMBER: GALN-SB8B-827-U-T3-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1907.0	6.1			
FM (30°-60°)	15023.4	48.4			
FH (60°-80°)	9830.7	31.7			G4/12000
FVH (80°-90°)	139.2	0.4			G2/225
BL (0°-30°)	1042.6	3.4	B3/2500		
BM (30°-60°)	2374.1	7.6	B2/2500		
BH (60°-80°)	728.9	2.3	B2/1000		G2/1000
BVH (80°-90°)	7.1	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-G4**

Type III Short



REPORT NUMBER: P943716

CATALOG NUMBER: GALN-SB8B-827-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	3611.8	3611.8	3611.8	3611.8	3611.8	3611.8	3611.8	3611.8	3611.8	3611.8
2.5°	3599.3	3624.3	3618.0	3611.8	3609.7	3613.9	3615.9	3613.9	3613.9	3613.9
5°	3530.6	3551.4	3551.4	3566.0	3586.8	3611.8	3630.5	3634.7	3638.8	3645.1
7.5°	3399.5	3416.1	3428.6	3476.5	3528.5	3595.1	3651.3	3680.5	3684.6	3707.5
10°	3309.9	3330.8	3351.6	3401.5	3476.5	3576.4	3672.2	3742.9	3753.3	3807.5
12.5°	3305.8	3326.6	3353.7	3407.8	3495.2	3601.4	3718.0	3820.0	3838.7	3917.8
15°	3349.5	3374.5	3399.5	3466.1	3559.7	3688.8	3813.7	3940.7	3959.4	4071.8
17.5°	3439.0	3472.3	3491.0	3557.7	3657.6	3801.2	3965.7	4111.4	4128.1	4259.2
20°	3615.9	3655.5	3661.7	3715.9	3813.7	3967.8	4163.4	4344.6	4365.4	4515.3
22.5°	3982.3	4038.5	3988.6	4015.6	4103.1	4257.1	4469.5	4698.4	4727.6	4898.3
25°	4627.7	4706.8	4577.7	4531.9	4569.4	4729.7	4996.1	5285.5	5318.8	5456.2
27.5°	5895.4	5793.4	5597.7	5406.2	5293.8	5385.4	5685.2	6043.2	6084.9	6218.1
30°	7288.1	7198.6	6934.2	6509.5	6243.1	6228.5	6505.4	6905.1	6952.9	7079.9
32.5°	8682.9	8597.5	8310.2	7787.7	7325.6	7096.6	7288.1	7731.5	7756.5	7837.7
35°	10054.7	9967.3	9680.0	9145.0	8576.7	8056.3	8018.8	8518.4	8526.7	8612.1
37.5°	11434.9	11362.0	11056.0	10531.4	9971.4	9253.3	8905.6	9263.7	9274.1	9357.3
40°	12419.5	12450.8	12240.5	11834.6	11353.7	10568.9	9900.7	10056.8	9994.3	10133.8
42.5°	13264.7	13327.2	13144.0	12940.0	12661.0	11969.9	11133.0	11106.0	11006.1	11081.0
45°	13995.4	14047.5	13883.0	13835.1	13828.9	13343.8	12479.9	12317.5	12178.1	12163.5
47.5°	14264.0	14363.9	14434.7	14594.9	14907.2	14703.2	13872.6	13620.7	13464.6	13350.1
50°	14366.0	14472.1	14713.6	15179.9	15918.9	16006.4	15259.0	14975.9	14784.4	14576.2
52.5°	14228.6	14418.0	14742.7	15527.6	16599.6	17051.4	16589.2	16341.5	16122.9	15783.6
55°	13418.8	13608.2	14272.3	15523.4	16939.0	17784.1	17846.6	17736.3	17490.6	16955.6
57.5°	11711.8	11992.8	13044.1	14994.6	16932.7	18414.9	19079.0	19158.1	18883.3	18117.2
60°	9346.9	9727.9	11010.2	13822.6	16410.2	18756.3	20159.4	20554.9	20263.5	19262.2
62.5°	6522.0	6963.4	8177.0	11986.6	15215.3	18510.7	20948.4	21679.0	21458.4	20286.4
65°	3978.2	4119.7	5098.1	9432.3	13183.5	17482.3	21191.9	22286.9	22214.0	20913.0
67.5°	2650.0	2768.7	3049.7	6467.9	10233.7	15427.6	20609.0	22180.7	22201.6	20811.0
70°	1596.7	1698.7	1881.9	3761.7	6632.4	12211.4	18804.2	20827.6	20948.4	19447.4
72.5°	657.8	726.5	893.1	1704.9	3434.8	7750.2	14973.8	17882.0	18163.0	16351.9
75°	372.6	408.0	524.6	855.6	1490.5	3611.8	9070.1	12694.3	13108.6	11270.4
77.5°	247.7	264.4	339.3	553.7	838.9	1232.4	3876.2	6613.6	7404.7	6155.6
80°	166.5	181.1	233.2	370.5	545.4	528.8	1234.5	2450.2	3014.3	2115.0
82.5°	112.4	114.5	166.5	243.6	345.6	256.1	364.3	761.9	957.6	612.0
85°	64.5	62.5	122.8	141.6	154.0	106.2	110.3	229.0	299.8	258.1
87.5°	8.3	12.5	47.9	37.5	20.8	22.9	22.9	39.6	58.3	62.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943716  
 CATALOG NUMBER: GALN-SB8B-827-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3611.8	0°	3611.8	3611.8	3611.8	3611.8	3611.8	3611.8	3611.8	3611.8	3611.8	3611.8
3615.9	2.5°	3615.9	3613.9	3607.6	3601.4	3586.8	3578.5	3582.6	3578.5	3576.4	3578.5
3643.0	5°	3643.0	3636.8	3620.1	3599.3	3570.2	3534.8	3511.9	3478.6	3447.3	3428.6
3715.9	7.5°	3715.9	3709.6	3686.7	3628.4	3534.8	3387.0	3251.6	3133.0	3043.5	2991.4
3832.4	10°	3832.4	3822.0	3786.7	3657.6	3411.9	3089.3	2820.7	2598.0	2452.3	2383.6
3969.8	12.5°	3969.8	3957.4	3894.9	3630.5	3178.8	2675.0	2304.5	2056.7	1921.4	1861.1
4128.1	15°	4132.2	4115.6	3992.7	3501.5	2839.5	2217.0	1877.7	1692.4	1605.0	1550.9
4330.0	17.5°	4334.1	4305.0	4065.6	3307.9	2471.0	1867.3	1615.4	1475.9	1398.9	1346.9
4594.4	20°	4596.4	4548.6	4123.9	3076.8	2131.7	1646.6	1438.5	1321.9	1263.6	1217.8
4969.1	22.5°	4962.8	4894.1	4194.7	2827.0	1892.3	1494.7	1307.3	1222.0	1174.1	1122.0
5491.6	25°	5416.6	5335.5	4282.1	2595.9	1727.8	1363.5	1211.6	1140.8	1084.6	1024.2
6176.5	27.5°	6051.6	5905.8	4386.2	2406.5	1586.3	1251.1	1124.1	1045.0	980.5	930.5
6952.9	30°	6759.3	6520.0	4477.8	2292.0	1457.2	1147.0	1009.6	930.5	870.2	834.8
7650.3	32.5°	7429.7	7104.9	4538.2	2242.0	1340.6	1028.4	884.7	799.4	753.6	743.2
8333.1	35°	8062.5	7633.7	4531.9	2194.1	1236.5	909.7	761.9	674.5	639.1	645.3
9068.0	37.5°	8791.1	8197.8	4488.2	2119.2	1151.2	801.5	655.7	578.7	547.5	549.6
9961.0	40°	9638.4	8849.4	4461.1	1977.6	1057.5	701.5	568.3	505.9	483.0	474.6
10902.0	42.5°	10541.8	9480.2	4465.3	1817.3	940.9	612.0	507.9	455.9	435.1	428.8
11949.1	45°	11449.5	10081.8	4471.5	1650.8	818.1	543.3	464.2	420.5	408.0	399.7
13010.8	47.5°	12303.0	10593.9	4355.0	1471.8	697.4	491.3	428.8	399.7	389.3	378.9
14076.6	50°	13098.2	10935.3	4073.9	1263.6	601.6	449.7	401.8	381.0	370.5	360.1
15042.5	52.5°	13716.5	10989.4	3609.7	1049.2	535.0	418.4	385.1	366.4	353.9	343.5
15823.2	55°	13991.2	10650.1	2949.8	849.3	483.0	391.4	368.5	349.7	335.2	324.7
16437.3	57.5°	13920.5	9936.1	2300.3	682.8	433.0	364.3	347.6	335.2	318.5	301.8
16934.8	60°	13572.8	8980.5	1734.1	568.3	387.2	335.2	324.7	314.3	291.4	266.5
17126.3	62.5°	12971.2	7779.4	1236.5	470.5	337.2	301.8	297.7	289.4	256.1	210.3
16843.2	65°	12051.1	6320.1	832.7	391.4	289.4	264.4	266.5	251.9	208.2	156.1
15806.5	67.5°	10706.3	4621.4	532.9	320.6	241.5	220.7	222.7	214.4	176.9	133.2
13841.4	70°	8993.0	3060.1	347.6	243.6	193.6	170.7	183.2	185.3	149.9	108.2
10623.0	72.5°	6592.8	1806.9	243.6	181.1	141.6	118.7	149.9	154.0	120.7	81.2
6390.9	75°	3757.5	857.7	183.2	131.1	87.4	83.3	116.6	116.6	83.3	54.1
2766.6	77.5°	1577.9	358.1	129.1	85.4	50.0	47.9	79.1	72.9	41.6	25.0
674.5	80°	455.9	160.3	68.7	41.6	20.8	18.7	31.2	22.9	10.4	4.2
256.1	82.5°	179.0	70.8	27.1	16.7	8.3	8.3	4.2	0.0	0.0	0.0
145.7	85°	106.2	29.1	12.5	6.2	2.1	0.0	0.0	0.0	0.0	0.0
31.2	87.5°	27.1	6.2	4.2	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

180°
3611.8
3586.8
3432.8
2993.5
2377.3
1854.8
1553.0
1342.7
1209.5
1113.7
1018.0
920.1
828.5
749.4
645.3
557.9
472.6
426.8
399.7
378.9
360.1
341.4
322.7
299.8
262.3
206.1
152.0
127.0
104.1
77.0
50.0
25.0
4.2
0.0
0.0
0.0
0.0

F REPORT)