

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: P940654

Luminaire Tested: **GALN-SB3D-827-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940654  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3D-827-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

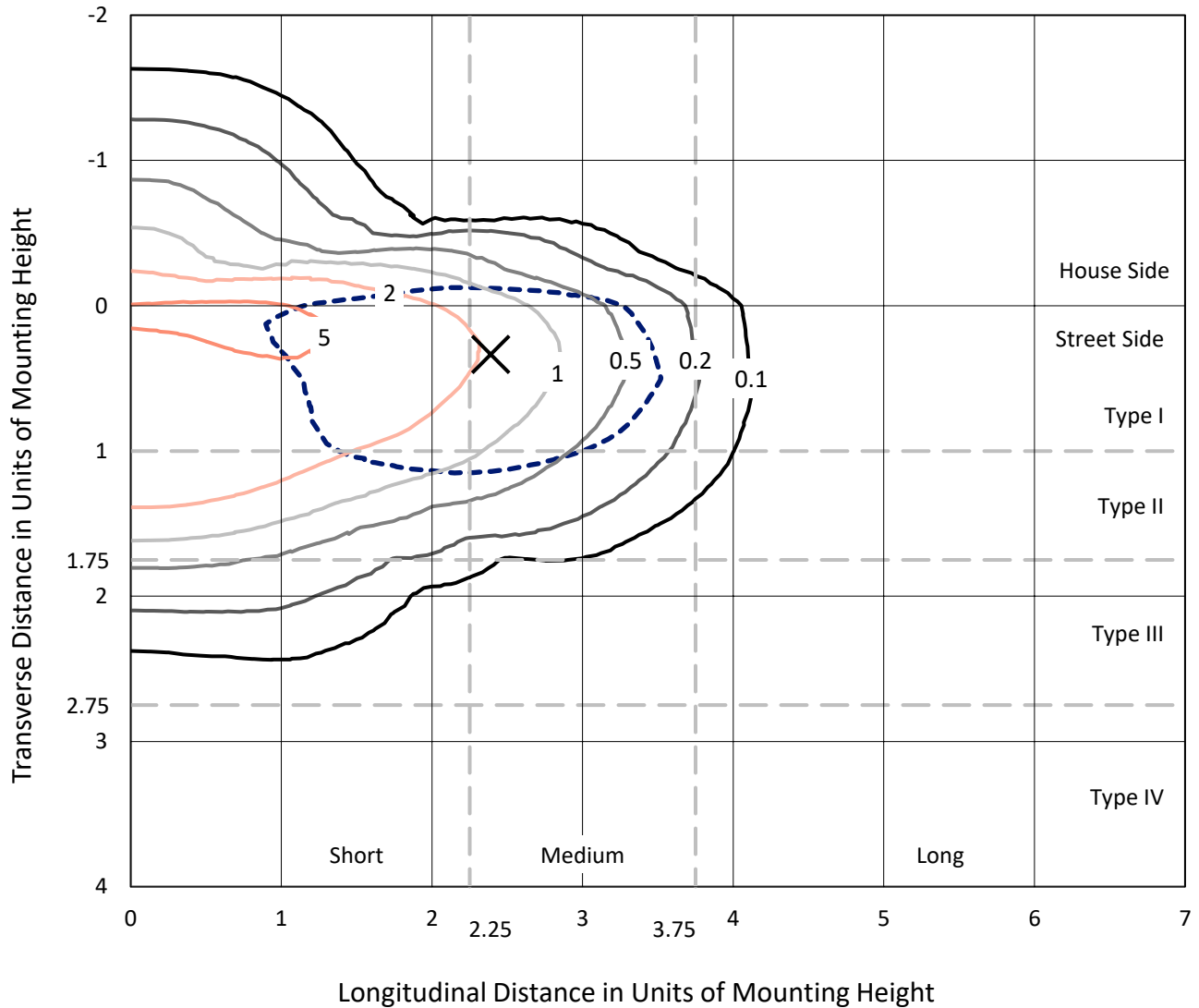
Lumens per Lamp: N/A  
Luminaire Lumens: 19387 lumens  
Efficiency: N/A  
Efficacy: 88.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P940654  
 CATALOG NUMBER: GALN-SB3D-827-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

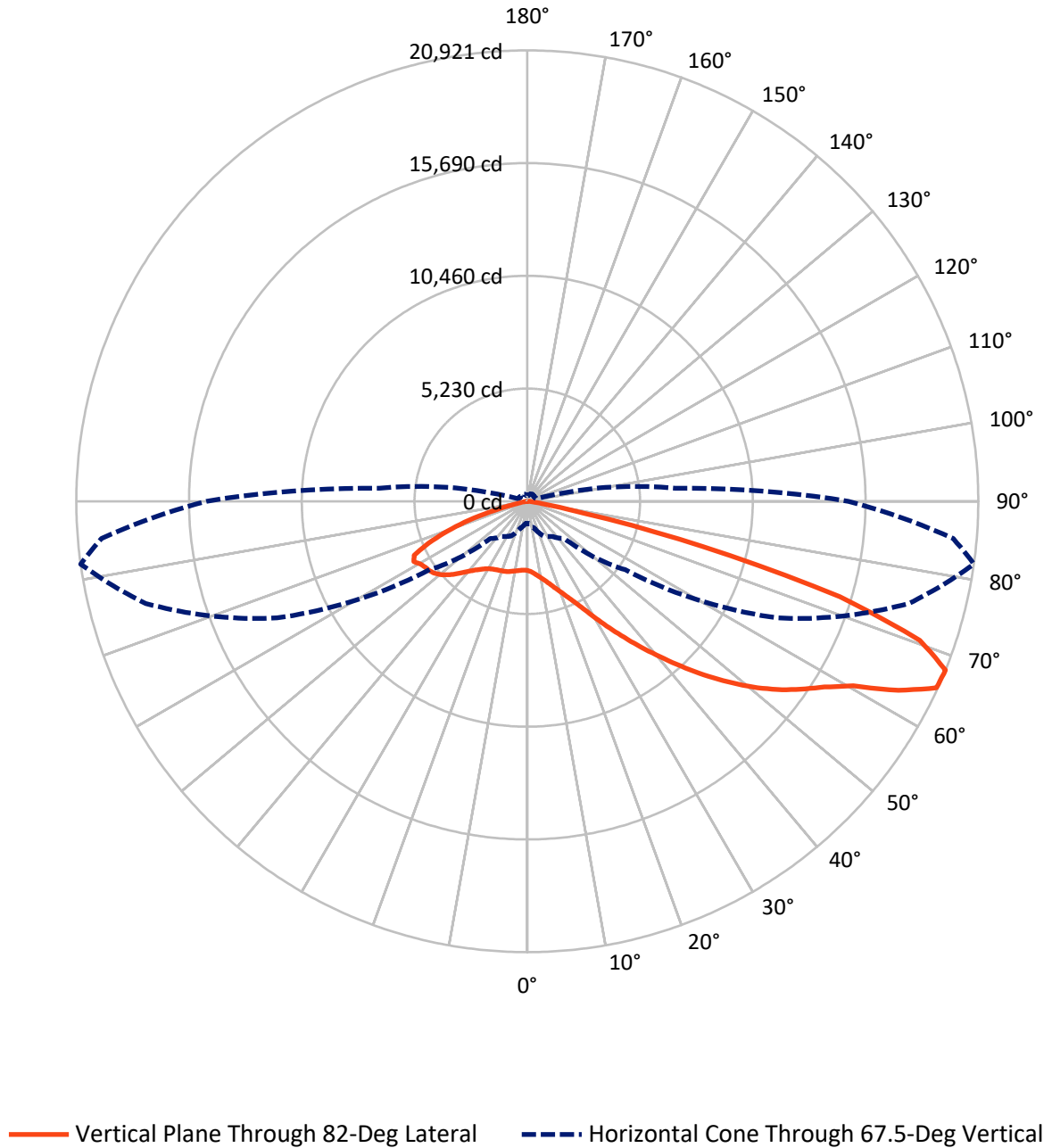
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Medium - N/A

REPORT NUMBER: P940654  
CATALOG NUMBER: GALN-SB3D-827-U-T2-HSS

### Luminous Intensity Polar Plot



REPORT NUMBER: P940654  
 CATALOG NUMBER: GALN-SB3D-827-U-T2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3511.8	0.0	3511.8
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	15875.2	0.0	15875.2
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	19387.0	0.0	19387.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.1	1.5
10°-20°	743.6	3.8
20°-30°	1191.0	6.1
30°-40°	2106.0	10.9
40°-50°	3689.9	19.0
50°-60°	4921.3	25.4
60°-70°	4581.5	23.6
70°-80°	1758.4	9.1
80°-90°	109.2	0.6
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°	19387.0	100.0
0°-180°	19387.0	100.0



REPORT NUMBER: P940654

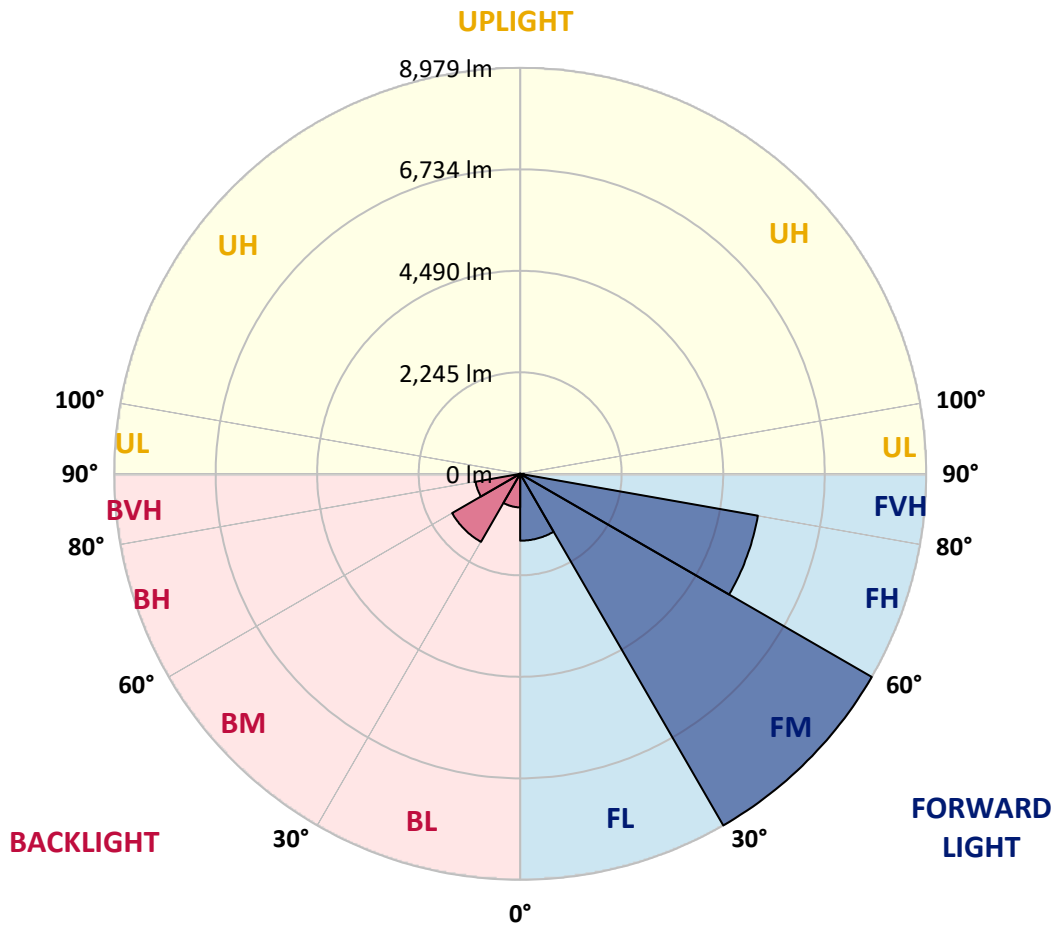
CATALOG NUMBER: GALN-SB3D-827-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1479.0	7.6			
FM (30°-60°)	8979.3	46.3			
FH (60°-80°)	5337.5	27.5			G3/7500
FVH (80°-90°)	79.4	0.4			G1/100
BL (0°-30°)	741.7	3.8	B2/1000		
BM (30°-60°)	1738.0	9.0	B2/2500		
BH (60°-80°)	1002.3	5.2	B3/2500		G3/2500
BVH (80°-90°)	29.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Medium



REPORT NUMBER: P940654

CATALOG NUMBER: GALN-SB3D-827-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°
0°	3211.8	3211.8	3211.8	3211.8	3211.8	3211.8	3211.8	3211.8	3211.8	3211.8
2.5°	3394.6	3414.2	3403.0	3397.4	3387.6	3373.7	3362.5	3327.6	3291.3	3267.6
5°	3463.0	3482.6	3481.2	3486.7	3493.7	3497.9	3495.1	3456.0	3404.4	3363.9
7.5°	3404.4	3426.7	3444.9	3472.8	3521.6	3573.3	3598.4	3590.0	3537.0	3481.2
10°	3238.3	3262.0	3305.3	3370.9	3474.2	3585.8	3679.4	3722.6	3689.1	3627.7
12.5°	2934.0	2957.7	3042.9	3185.2	3358.3	3552.3	3731.0	3846.9	3855.2	3793.8
15°	2592.0	2615.8	2706.5	2885.1	3149.0	3460.2	3758.9	3978.1	4052.1	3999.0
17.5°	2379.9	2400.8	2469.2	2613.0	2887.9	3276.0	3749.2	4117.7	4286.5	4244.7
20°	2315.7	2333.8	2365.9	2466.4	2695.3	3084.8	3685.0	4248.9	4539.2	4515.5
22.5°	2384.1	2400.8	2410.6	2455.2	2599.0	2959.1	3604.0	4382.9	4832.3	4835.1
25°	2541.8	2558.5	2547.4	2575.3	2638.1	2920.0	3573.3	4540.6	5200.8	5231.5
27.5°	2801.4	2802.8	2776.3	2774.9	2784.7	2978.7	3605.4	4709.5	5665.6	5722.8
30°	3322.0	3301.1	3199.2	3088.9	3038.7	3154.5	3694.7	4909.1	6214.2	6316.1
32.5°	4124.6	4093.9	3906.9	3643.1	3377.9	3437.9	3855.2	5136.6	6811.6	6995.8
35°	4995.6	4987.2	4791.8	4399.6	3936.2	3841.3	4116.3	5435.3	7463.4	7756.5
37.5°	5805.2	5801.0	5689.3	5227.3	4663.4	4403.8	4535.0	5826.1	8161.3	8585.7
40°	6545.0	6557.5	6445.9	6032.7	5464.6	5125.4	5104.5	6309.1	8937.4	9488.7
42.5°	7184.3	7198.2	7085.2	6779.5	6256.0	5923.8	5803.8	6900.9	9695.3	10458.8
45°	7618.4	7704.9	7688.1	7443.9	7068.4	6723.6	6644.1	7643.5	10559.3	11487.6
47.5°	7741.2	7820.8	7946.4	7979.9	7751.0	7411.8	7506.7	8538.2	11433.1	12517.7
50°	7438.3	7512.3	7773.3	8120.9	8280.0	8175.3	8345.6	9497.1	12327.8	13545.0
52.5°	6840.9	6916.3	7245.7	7795.6	8444.7	8774.1	9187.3	10442.1	13194.6	14517.9
55°	5976.9	6056.4	6479.4	7101.9	8130.6	9021.2	9889.3	11385.7	13988.9	15393.0
57.5°	4801.6	4860.2	5299.9	6170.9	7340.6	8775.5	10407.2	12415.8	14737.0	16252.9
60°	3129.4	3181.1	3691.9	4663.4	6031.3	7954.7	10510.5	13564.5	15730.8	17370.9
62.5°	2081.2	2116.1	2418.9	3132.2	4247.5	6378.9	9906.1	14481.6	17188.1	19316.7
65°	1427.9	1462.8	1765.7	2262.6	2744.2	4219.5	8168.3	14360.1	18508.5	20861.8
67.5°	1018.9	1048.3	1305.1	1774.1	1986.2	2451.1	5537.2	12808.0	18318.7	20920.5
70°	730.0	746.8	958.9	1381.9	1578.7	1472.6	3079.2	9795.8	16039.3	19318.1
72.5°	510.9	516.5	665.8	1052.4	1271.6	1074.8	1465.6	6531.0	12131.0	15162.7
75°	346.2	353.1	448.1	771.9	1020.3	820.7	776.1	3502.1	7121.4	8393.0
77.5°	212.2	215.0	288.9	527.6	763.5	625.3	499.7	1483.8	2755.3	2705.1
80°	120.0	120.0	184.2	328.0	520.6	403.4	350.3	630.9	872.4	766.3
82.5°	67.0	68.4	134.0	203.8	344.8	238.7	192.6	291.7	376.9	333.6
85°	27.9	30.7	82.4	96.3	164.7	118.6	78.2	122.8	139.6	124.2
87.5°	2.8	4.2	25.1	18.1	19.5	23.7	11.2	23.7	19.5	19.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940654  
 CATALOG NUMBER: GALN-SB3D-827-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3211.8	0°	3211.8	3211.8	3211.8	3211.8	3211.8	3211.8	3211.8	3211.8	3211.8	3211.8
3259.2	2.5°	3232.7	3211.8	3158.7	3097.3	3016.4	2977.3	2924.2	2887.9	2857.2	2860.0
3340.2	5°	3295.5	3242.5	3123.8	2975.9	2791.6	2660.4	2520.8	2424.5	2346.4	2329.6
3451.8	7.5°	3382.1	3298.3	3090.3	2823.7	2512.5	2276.6	2065.8	1930.4	1834.1	1803.4
3587.2	10°	3493.7	3372.3	3047.1	2632.5	2184.5	1884.3	1658.2	1552.1	1486.5	1464.2
3746.4	12.5°	3623.5	3457.4	2989.8	2399.4	1846.7	1557.7	1414.0	1360.9	1340.0	1333.0
3941.8	15°	3786.8	3563.5	2903.3	2123.0	1560.5	1358.1	1296.7	1289.7	1292.5	1289.7
4176.3	17.5°	3980.9	3679.4	2762.3	1838.3	1367.9	1256.2	1233.9	1239.5	1246.5	1245.1
4438.7	20°	4193.0	3793.8	2582.3	1585.6	1236.7	1183.7	1171.1	1176.7	1182.3	1179.5
4741.6	22.5°	4434.5	3916.7	2382.7	1388.8	1148.8	1116.7	1102.7	1104.1	1104.1	1098.5
5125.4	25°	4723.4	4052.1	2173.3	1249.3	1081.8	1056.6	1039.9	1034.3	1025.9	1009.2
5591.6	27.5°	5068.2	4195.8	1972.3	1151.5	1028.7	1005.0	985.4	971.5	950.5	922.6
6151.4	30°	5456.2	4370.3	1802.0	1090.1	986.8	963.1	940.8	919.8	889.1	854.2
6794.8	32.5°	5912.7	4557.3	1677.8	1049.7	949.2	924.0	897.5	872.4	838.9	804.0
7517.9	35°	6457.0	4783.5	1605.2	1021.7	919.8	886.3	857.0	829.1	804.0	773.3
8303.7	37.5°	7047.5	5023.5	1582.9	1007.8	900.3	848.7	815.2	795.6	792.8	774.7
9153.8	40°	7693.7	5308.3	1599.6	999.4	879.4	812.4	776.1	771.9	778.9	746.8
10062.4	42.5°	8377.7	5646.1	1627.5	989.6	850.1	776.1	741.2	741.2	735.6	690.9
11022.7	45°	9117.5	6035.5	1655.4	965.9	815.2	739.8	713.3	703.5	679.8	636.5
11988.7	47.5°	9862.8	6431.9	1676.4	922.6	773.3	709.1	685.3	663.0	628.1	589.0
12936.4	50°	10570.5	6787.8	1654.0	858.4	725.8	679.8	654.6	623.9	586.2	559.7
13833.9	52.5°	11202.8	7096.3	1559.1	783.1	675.6	649.1	626.7	594.6	563.9	536.0
14643.5	55°	11752.8	7346.2	1391.6	711.9	630.9	622.5	600.2	559.7	517.8	494.1
15446.1	57.5°	12280.4	7536.0	1182.3	653.2	590.4	593.2	559.7	523.4	484.3	459.2
16527.8	60°	12982.5	7790.0	970.1	598.8	547.2	555.5	519.2	492.7	443.9	411.8
18382.9	62.5°	14104.7	8185.1	770.5	531.8	496.9	499.7	484.3	452.2	393.6	355.9
19757.8	65°	14995.2	8039.9	607.2	459.2	439.7	443.9	443.9	409.0	346.2	302.9
19831.7	67.5°	14894.7	6884.2	484.3	388.0	385.2	388.0	397.8	368.5	307.1	272.2
18321.5	70°	13720.9	5475.8	388.0	322.4	335.0	328.0	355.9	336.4	276.4	241.5
14203.8	72.5°	11195.8	3944.6	295.9	266.6	256.8	268.0	321.0	302.9	230.3	191.2
7523.4	75°	6542.2	2104.9	220.5	210.8	185.6	223.3	284.7	258.2	175.9	141.0
2305.9	77.5°	2130.0	734.2	161.9	154.9	138.2	180.1	242.9	217.7	143.8	111.7
675.6	80°	570.9	221.9	110.3	101.9	89.3	134.0	192.6	173.1	103.3	72.6
290.3	82.5°	228.9	93.5	64.2	57.2	48.9	92.1	152.1	139.6	76.8	46.1
90.7	85°	74.0	30.7	23.7	18.1	22.3	57.2	90.7	94.9	54.4	23.7
14.0	87.5°	9.8	4.2	4.2	5.6	4.2	9.8	27.9	26.5	15.4	2.8
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>
3211.8
2832.1
2291.9
1772.7
1447.5
1328.8
1288.3
1242.3
1178.1
1095.7
1006.4
919.8
851.4
805.4
770.5
773.3
748.2
690.9
635.1
587.6
555.5
533.2
491.3
456.4
407.6
353.1
298.7
266.6
237.3
187.0
136.8
107.5
71.2
46.1
18.1
0.0
0.0

F REPORT)