

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: P956771

Luminaire Tested: **GALN-SB9B-827-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956771  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9B-827-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

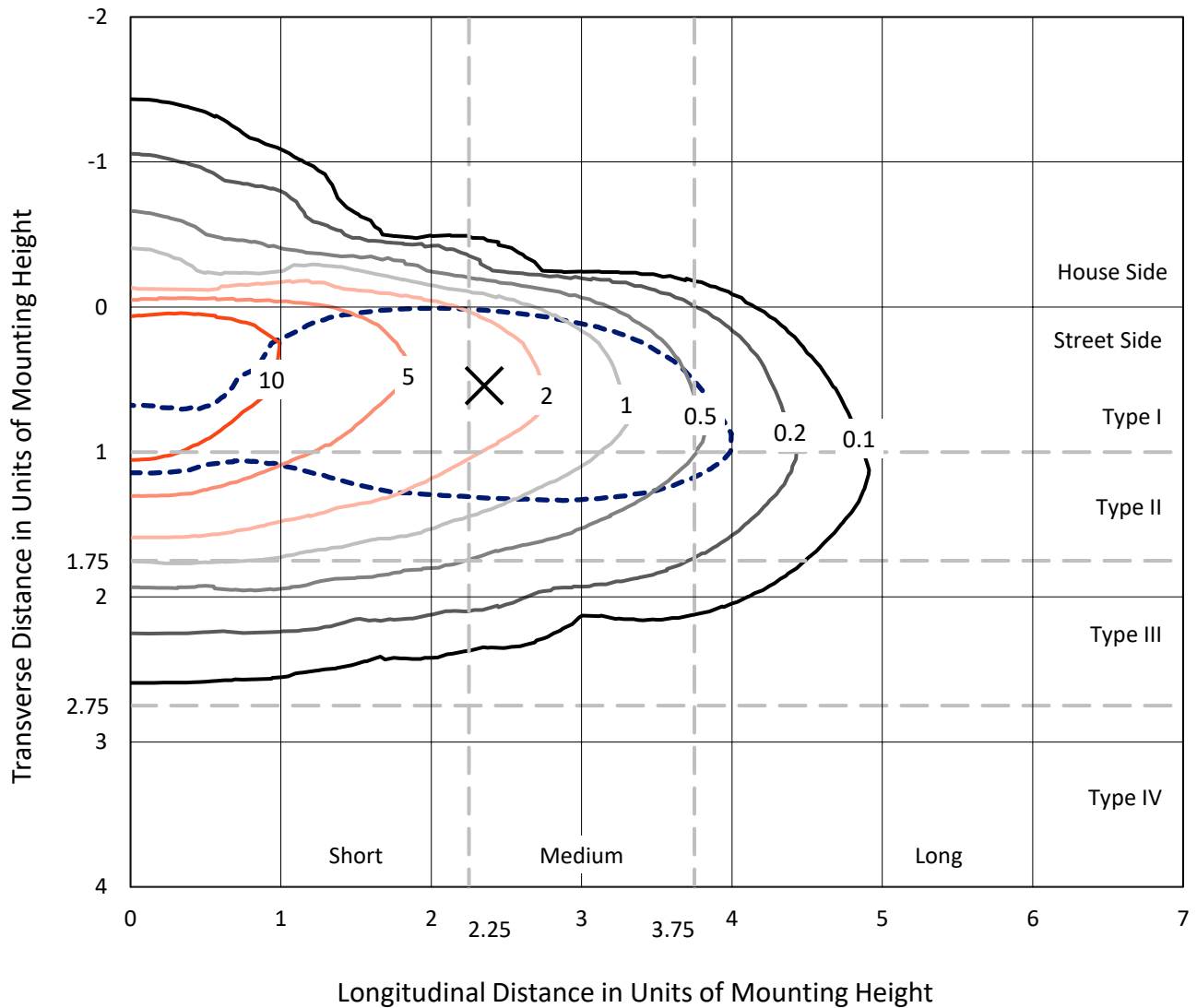
Lumens per Lamp: N/A  
Luminaire Lumens: 37762 lumens  
Efficiency: N/A  
Efficacy: 114.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): 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: P956771  
 CATALOG NUMBER: GALN-SB9B-827-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

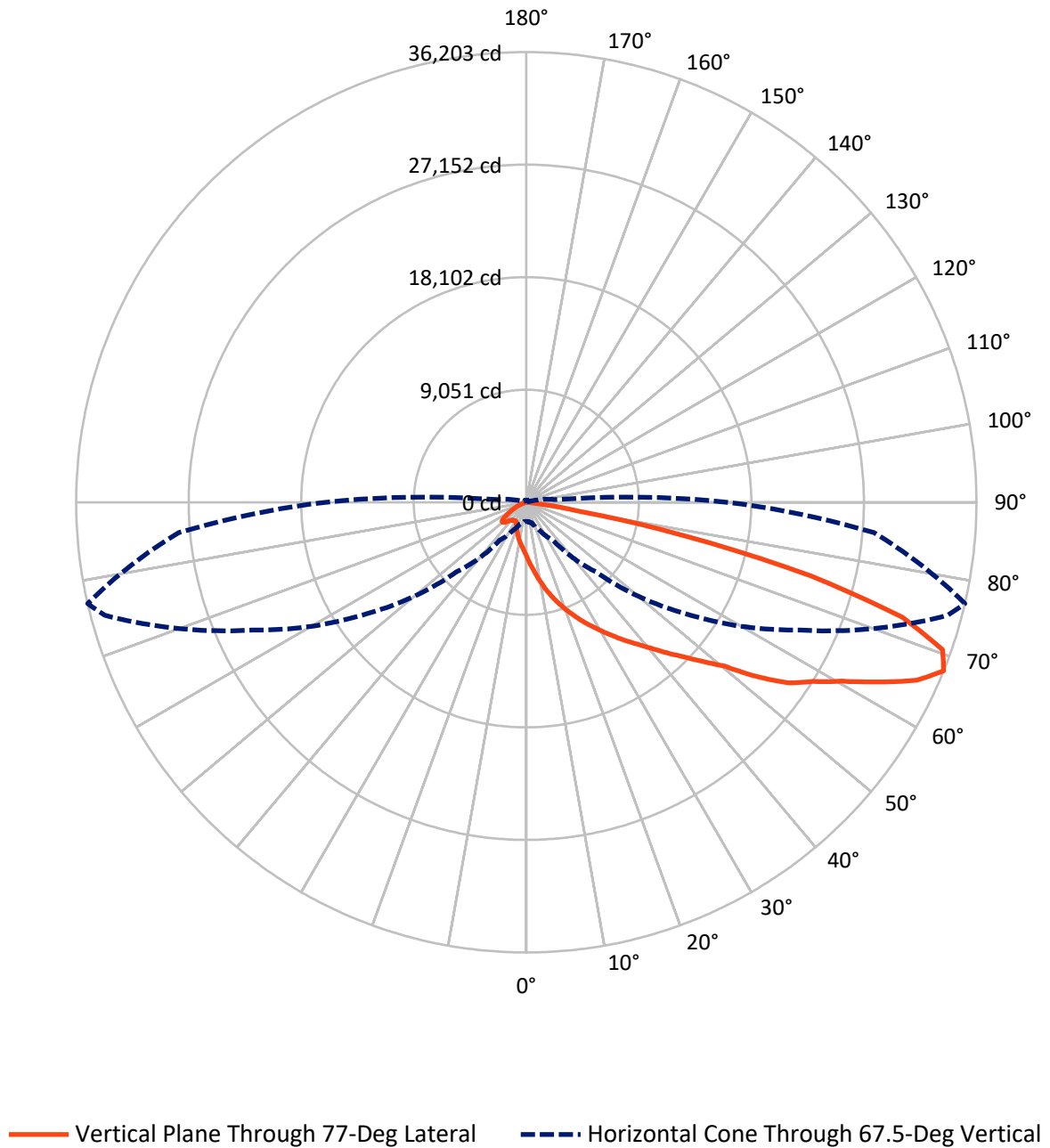
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc  
 Type II - Medium - N/A

REPORT NUMBER: P956771  
CATALOG NUMBER: GALN-SB9B-827-U-T2R-HSS

### Luminous Intensity Polar Plot



REPORT NUMBER: P956771  
 CATALOG NUMBER: GALN-SB9B-827-U-T2R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2778.2	0.0	2778.2
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	34983.8	0.0	34983.8
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	37762.0	0.0	37762.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	444.4	1.2
10°-20°	1556.4	4.1
20°-30°	3003.4	8.0
30°-40°	5214.1	13.8
40°-50°	7570.7	20.0
50°-60°	8694.0	23.0
60°-70°	7548.0	20.0
70°-80°	3555.2	9.4
80°-90°	175.8	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°	37762.0	100.0
0°-180°	37762.0	100.0

**Coefficient of Utilization**



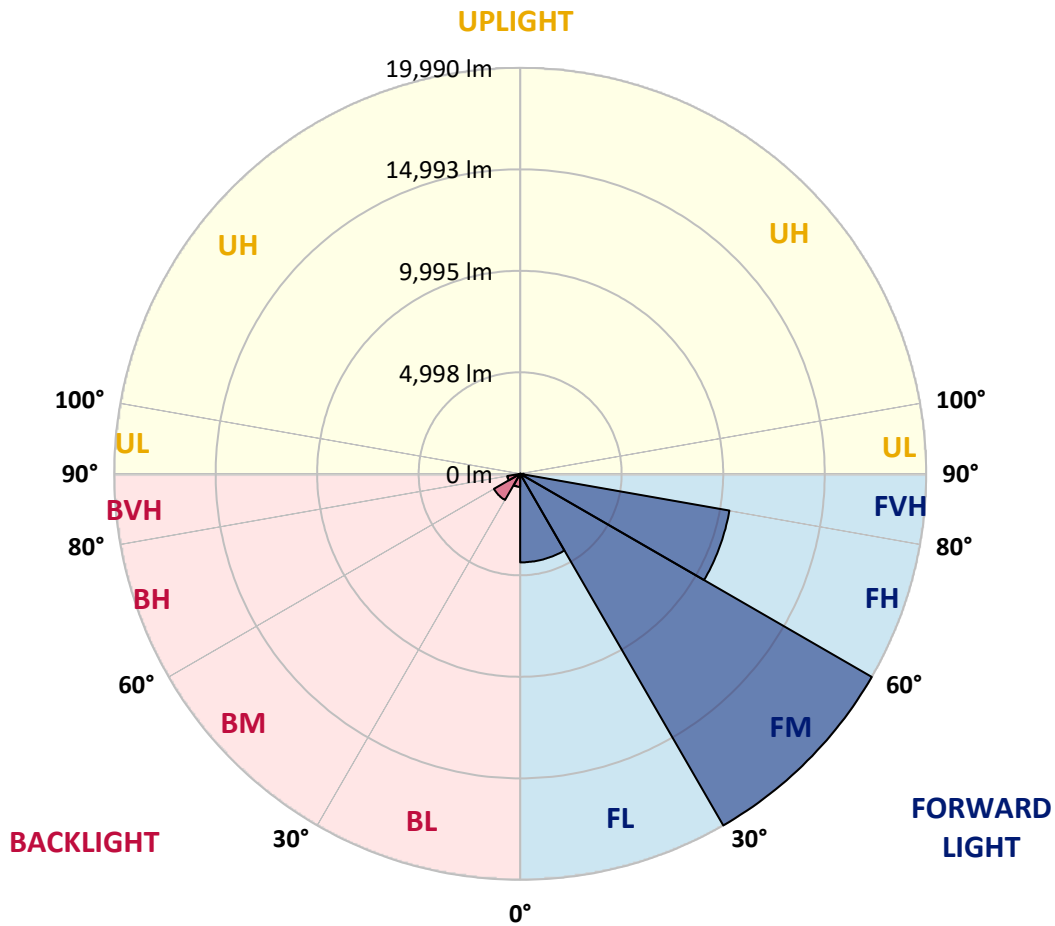
REPORT NUMBER: P956771  
 CATALOG NUMBER: GALN-SB9B-827-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4361.1	11.5			
FM (30°-60°)	19990.2	52.9			
FH (60°-80°)	10460.0	27.7			G4/12000
FVH (80°-90°)	172.6	0.5			G2/225
BL (0°-30°)	643.2	1.7	B2/1000		
BM (30°-60°)	1488.6	3.9	B2/2500		
BH (60°-80°)	643.2	1.7	B2/1000		G2/1000
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type II Medium



REPORT NUMBER: P956771

CATALOG NUMBER: GALN-SB9B-827-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4354.5	4354.5	4354.5	4354.5	4354.5	4354.5	4354.5	4354.5	4354.5	4354.5
2.5°	6028.8	6066.3	6012.4	5909.2	5754.4	5653.6	5407.4	5175.2	4917.3	4835.2
5°	7349.0	7381.8	7320.8	7208.3	7001.9	6805.0	6481.4	5996.0	5491.8	5330.0
7.5°	8326.8	8345.6	8322.1	8218.9	8022.0	7799.2	7438.1	6863.6	6115.5	5937.3
10°	9030.3	9091.2	9084.2	9044.4	8913.0	8732.5	8347.9	7693.7	6814.3	6584.5
12.5°	9496.9	9564.9	9604.8	9693.9	9686.9	9572.0	9234.3	8542.5	7510.8	7241.1
15°	9632.9	9705.6	9858.0	10064.4	10247.3	10305.9	10069.1	9375.0	8277.6	7932.9
17.5°	9555.5	9668.1	9851.0	10176.9	10577.9	10842.9	10817.1	10179.3	8974.0	8580.1
20°	9726.7	9834.6	9977.6	10252.0	10718.6	11199.3	11391.6	10948.4	9665.8	9253.0
22.5°	10674.1	10655.3	10669.4	10713.9	10993.0	11469.0	11865.3	11647.2	10350.5	9928.4
25°	12174.8	12090.4	11947.4	11705.8	11635.5	11865.3	12278.0	12266.3	11072.7	10620.1
27.5°	13896.0	13881.9	13546.6	12965.1	12636.8	12547.7	12744.6	12868.9	11787.9	11304.9
30°	15544.5	15582.0	15129.4	14482.2	13879.6	13530.2	13352.0	13441.1	12514.8	12043.5
32.5°	16979.6	17019.4	16527.0	15769.6	15023.9	14601.8	14226.6	14006.2	13307.4	12793.9
35°	18191.9	18231.7	17666.6	16829.5	16034.6	15652.3	15227.9	14625.3	14104.7	13626.3
37.5°	19275.2	19263.5	18506.1	17661.9	16881.1	16578.6	16355.8	15387.4	14925.4	14463.5
40°	19915.4	19964.6	19317.4	18386.5	17629.1	17408.7	17394.6	16332.4	15872.8	15424.9
42.5°	20103.0	20189.7	19720.8	18956.3	18269.3	18030.1	18398.2	17354.7	16974.9	16538.7
45°	19765.3	19849.7	19636.3	19106.4	18705.4	18550.7	19261.2	18414.6	18152.0	17720.5
47.5°	18780.5	18886.0	18937.6	18825.0	18820.3	18977.4	20035.0	19530.8	19549.6	19108.7
50°	16874.0	17052.2	17525.9	17924.6	18541.3	19315.1	20787.7	20740.8	21125.4	20745.5
52.5°	13408.2	13661.5	15293.6	16383.9	17769.8	19251.8	21615.5	22682.4	23890.0	23334.3
55°	10774.9	10774.9	12102.1	14142.2	16264.4	18834.4	21976.6	23944.0	25773.0	25641.7
57.5°	8784.1	8889.6	9736.1	11539.3	14085.9	17840.1	22199.3	24736.5	27290.2	27194.0
60°	5421.5	5648.9	7248.1	9027.9	11607.3	16069.7	22058.6	25538.5	29130.9	29208.3
62.5°	3053.1	3137.5	3850.4	6495.4	9025.6	13689.6	20982.3	25986.4	31485.2	31813.5
65°	2108.1	2150.3	2424.6	4042.6	6256.2	10899.2	18878.9	25707.3	33844.2	34507.8
67.5°	1531.2	1552.3	1723.5	2469.2	3712.0	7902.4	15582.0	24300.4	35094.1	36203.2
70°	1177.1	1191.2	1315.5	1622.7	2192.5	4877.4	11316.6	21502.9	34188.9	35513.8
72.5°	956.7	970.8	1066.9	1200.6	1453.8	2884.2	6858.9	17462.6	30193.2	31623.6
75°	806.7	825.4	912.2	998.9	1139.6	1852.5	3217.2	12160.7	22705.8	23643.8
77.5°	447.9	412.7	741.0	827.8	961.4	1172.5	1505.4	7156.7	12716.5	12976.8
80°	279.0	288.4	588.6	666.0	738.6	590.9	689.4	2755.3	4408.4	4188.0
82.5°	16.4	37.5	452.6	480.7	506.5	253.3	260.3	935.6	1062.2	975.5
85°	0.0	0.0	206.4	166.5	175.9	72.7	75.0	218.1	143.0	154.8
87.5°	0.0	0.0	0.0	4.7	0.0	7.0	14.1	18.8	7.0	9.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956771  
 CATALOG NUMBER: GALN-SB9B-827-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4354.5	0°	4354.5	4354.5	4354.5	4354.5	4354.5	4354.5	4354.5	4354.5	4354.5	4354.5
4577.3	2.5°	4413.1	4249.0	3916.0	3590.1	3325.1	3078.9	2903.0	2736.5	2652.1	2647.4
4872.7	5°	4546.8	4202.1	3536.1	2947.6	2473.9	2094.0	1847.8	1671.9	1582.8	1552.3
5236.2	7.5°	4734.4	4216.2	3203.2	2384.8	1826.7	1500.7	1360.1	1303.8	1285.0	1263.9
5646.6	10°	4971.2	4249.0	2905.4	1920.5	1439.8	1275.6	1219.4	1195.9	1181.8	1167.8
6108.5	12.5°	5236.2	4279.5	2609.9	1594.5	1266.3	1181.8	1142.0	1113.8	1095.1	1078.7
6582.2	15°	5494.1	4298.2	2302.7	1367.1	1177.1	1109.1	1066.9	1036.5	1010.7	991.9
7046.5	17.5°	5749.7	4324.0	2014.3	1231.1	1104.5	1036.5	994.2	956.7	935.6	914.5
7534.2	20°	6033.5	4319.3	1742.3	1134.9	1031.8	963.8	919.2	884.0	862.9	839.5
8050.1	22.5°	6296.1	4295.9	1503.1	1052.9	956.7	891.1	841.8	806.7	785.5	766.8
8577.7	25°	6598.6	4277.1	1303.8	977.8	886.4	820.7	766.8	734.0	710.5	694.1
9107.7	27.5°	6889.4	4249.0	1158.4	909.8	818.4	755.1	703.5	666.0	644.9	633.1
9654.0	30°	7175.5	4242.0	1104.5	844.2	757.4	694.1	642.5	607.3	590.9	586.2
10254.3	32.5°	7520.2	4260.7	1127.9	820.7	701.1	637.8	588.6	562.8	546.4	546.4
10922.6	35°	7888.3	4256.0	1163.1	841.8	663.6	581.5	544.0	527.6	511.2	511.2
11663.6	37.5°	8350.3	4263.1	1191.2	877.0	649.5	534.6	513.5	492.4	483.1	483.1
12475.0	40°	9039.7	4495.2	1177.1	907.5	644.9	501.8	459.6	452.6	445.5	445.5
13391.8	42.5°	9883.8	4999.4	1195.9	909.8	642.5	478.4	422.1	436.2	419.7	417.4
14425.9	45°	10807.7	5550.4	1315.5	860.6	640.2	466.6	403.3	419.7	393.9	393.9
15624.2	47.5°	11724.6	6096.8	1437.4	790.2	633.1	464.3	386.9	377.5	370.5	372.8
17185.9	50°	12988.5	6542.3	1484.3	694.1	616.7	459.6	356.4	358.8	354.1	358.8
19387.8	52.5°	14365.0	6636.1	1428.1	586.2	569.8	445.5	335.3	344.7	342.4	347.0
20937.8	55°	15223.2	6535.3	1179.5	487.7	497.1	389.3	314.2	333.0	333.0	333.0
22452.6	57.5°	16109.6	6106.2	837.1	396.3	412.7	318.9	295.5	321.3	318.9	316.6
24276.9	60°	16747.4	5412.1	551.1	325.9	328.3	262.6	274.4	302.5	300.1	288.4
26157.6	62.5°	17223.4	4645.3	354.1	276.7	250.9	236.8	250.9	274.4	265.0	239.2
27752.1	65°	17169.5	3583.0	272.0	236.8	206.4	206.4	218.1	239.2	211.0	168.8
28057.0	67.5°	16168.2	2424.6	225.1	199.3	173.5	171.2	180.6	199.3	180.6	143.0
26495.2	70°	14379.0	1585.2	180.6	154.8	138.4	126.6	145.4	171.2	152.4	114.9
22555.8	72.5°	11670.7	966.1	136.0	112.6	100.8	82.1	114.9	140.7	121.9	84.4
15685.2	75°	7550.6	492.4	93.8	72.7	53.9	49.2	84.4	105.5	84.4	51.6
6959.7	77.5°	2888.9	206.4	51.6	32.8	28.1	23.4	46.9	63.3	35.2	11.7
1348.3	80°	555.7	86.8	25.8	16.4	14.1	9.4	7.0	4.7	0.0	0.0
239.2	82.5°	96.1	28.1	9.4	4.7	0.0	0.0	0.0	0.0	0.0	0.0
46.9	85°	32.8	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16.4	87.5°	11.7	0.0	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>
4354.5
2642.7
1547.6
1259.2
1163.1
1074.0
989.6
912.2
837.1
764.4
691.8
633.1
583.9
546.4
511.2
483.1
445.5
415.1
393.9
372.8
358.8
347.0
333.0
316.6
288.4
234.5
164.1
138.4
110.2
79.7
44.6
9.4
0.0
0.0
0.0
0.0
0.0

F REPORT)