

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: P943888

Luminaire Tested: **GALN-SB8C-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943888
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39871 lumens
Efficiency: N/A
Efficacy: 99.7 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

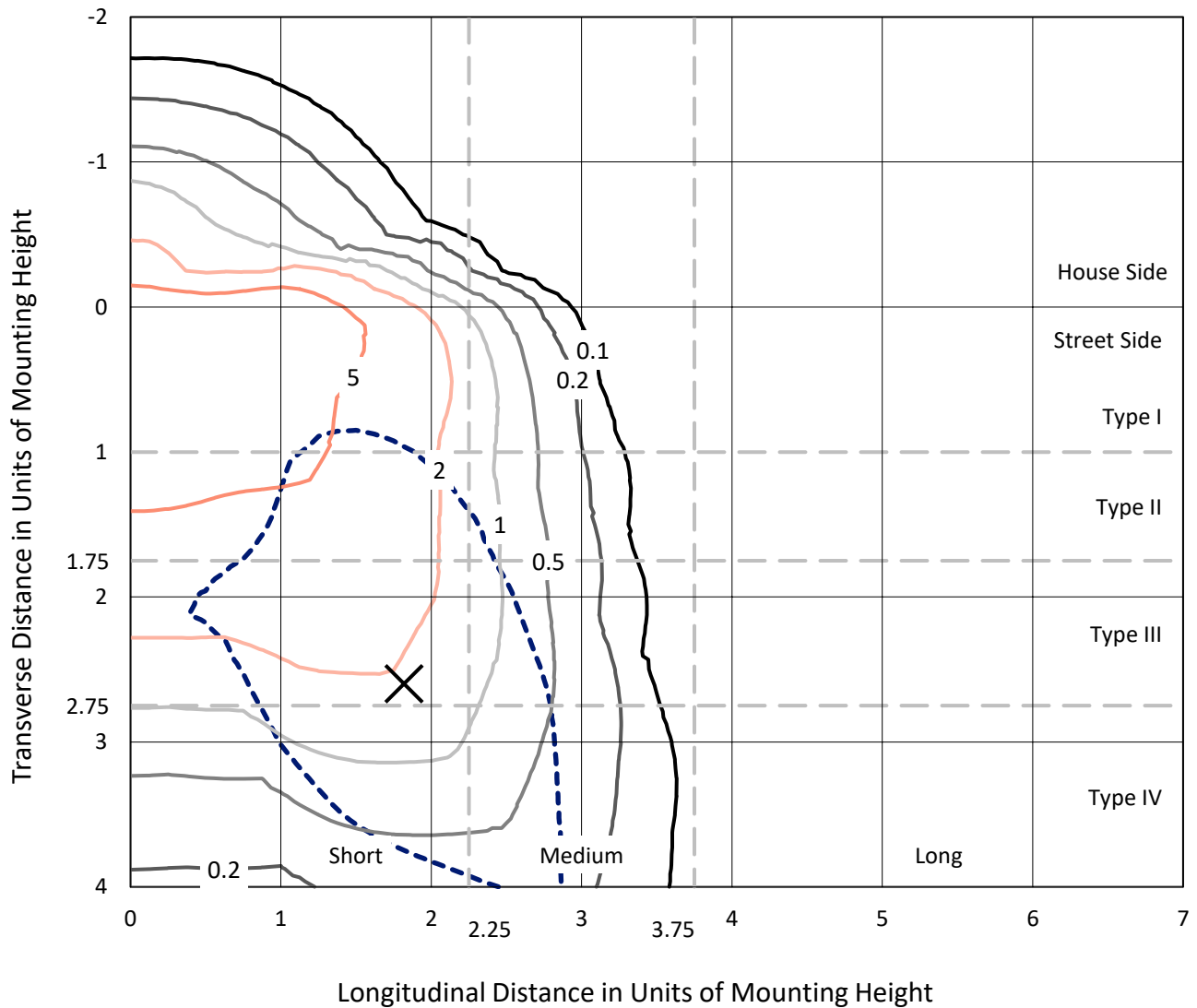
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P943888
 CATALOG NUMBER: GALN-SB8C-827-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

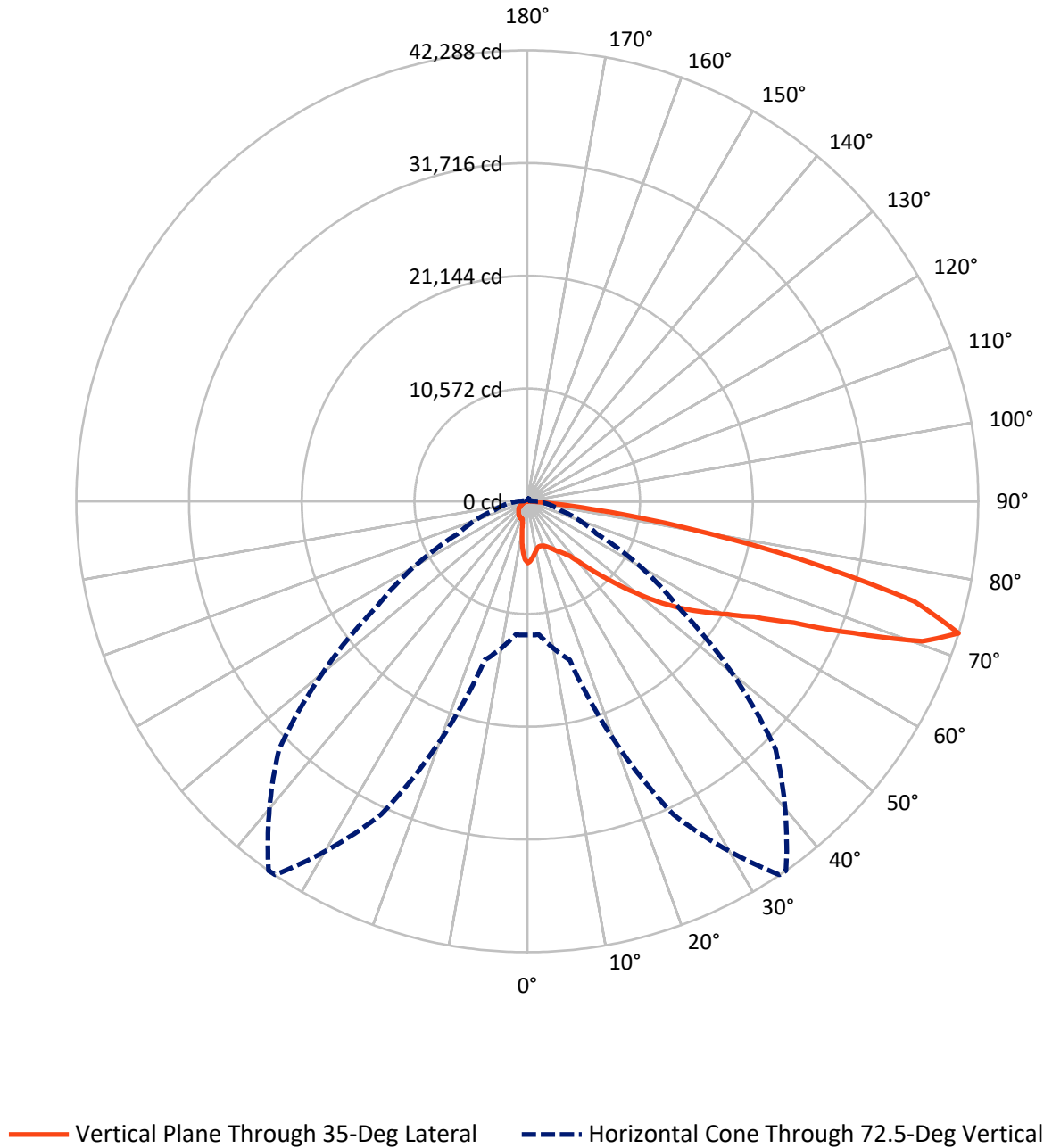
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P943888
CATALOG NUMBER: GALN-SB8C-827-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P943888

CATALOG NUMBER: GALN-SB8C-827-U-T4FT-HSS

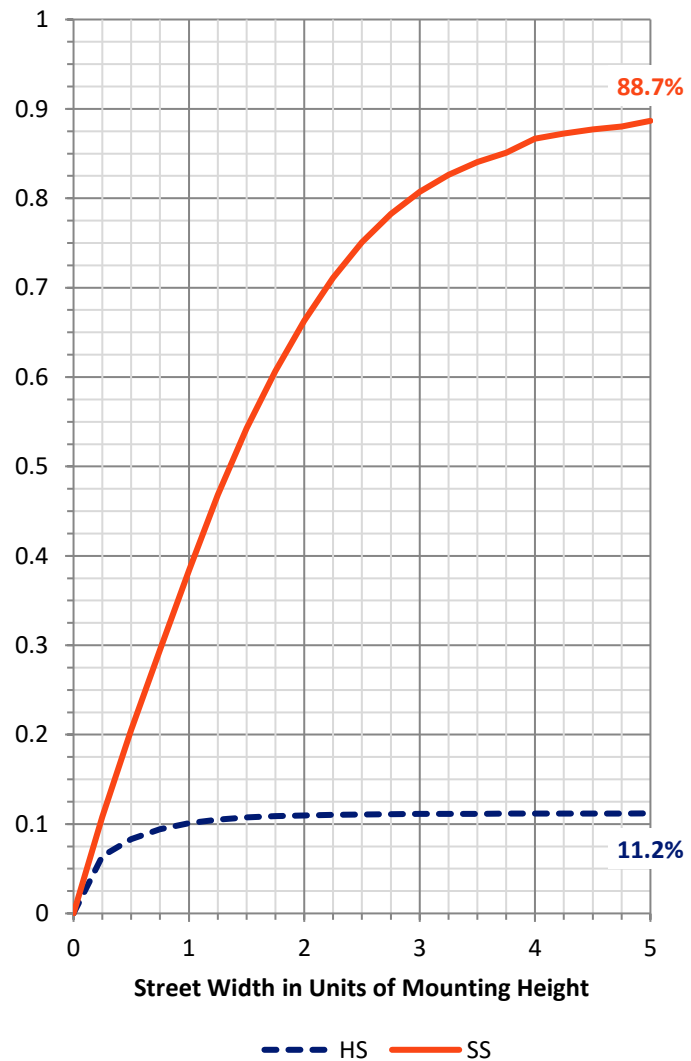
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4487.3	0.0	4487.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	35383.7	0.0	35383.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	39871.0	0.0	39871.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.8	1.2
10°-20°	1110.9	2.8
20°-30°	1804.6	4.5
30°-40°	3010.9	7.6
40°-50°	5696.7	14.3
50°-60°	9052.0	22.7
60°-70°	11197.9	28.1
70°-80°	6960.7	17.5
80°-90°	562.5	1.4
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°	39871.0	100.0
0°-180°	39871.0	100.0

Coefficient of Utilization



REPORT NUMBER: P943888

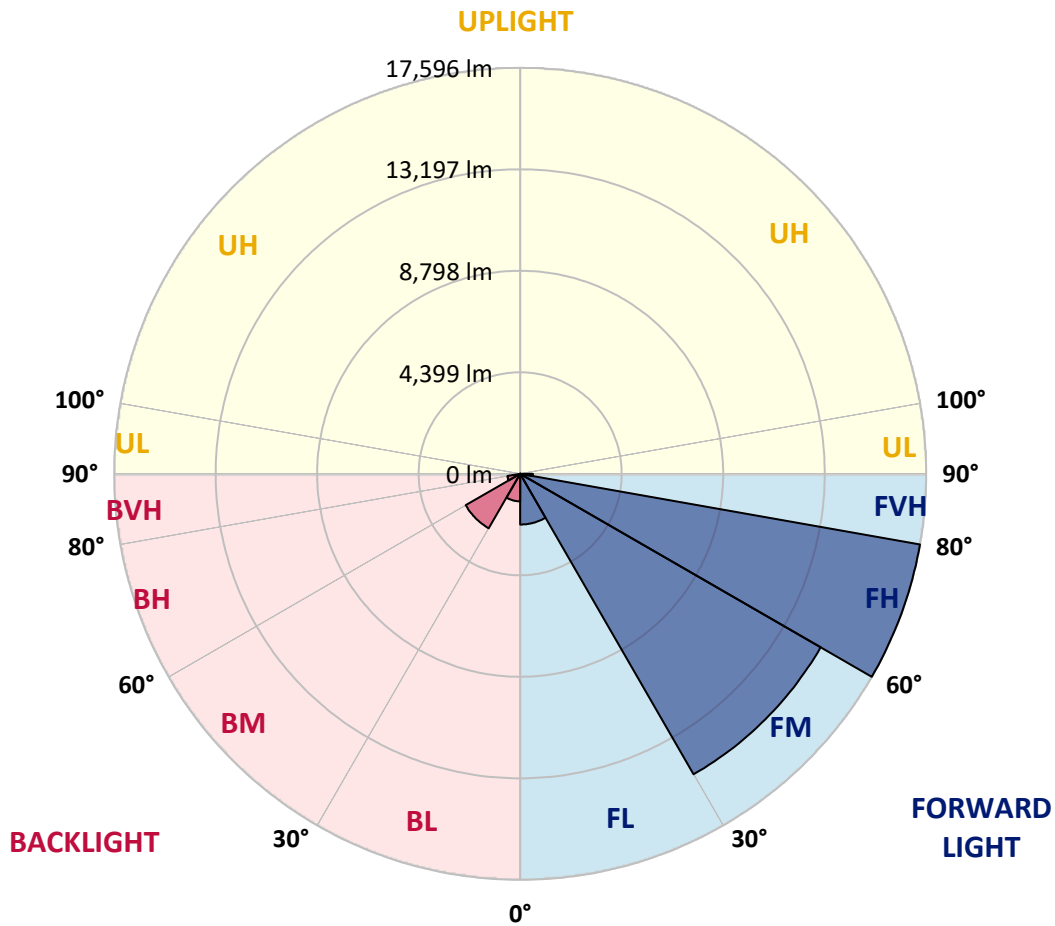
CATALOG NUMBER: GALN-SB8C-827-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2197.9	5.5			
FM (30°-60°)	15035.4	37.7			
FH (60°-80°)	17595.6	44.1			G5
FVH (80°-90°)	554.9	1.4			G4/750
BL (0°-30°)	1192.4	3.0	B3/2500		
BM (30°-60°)	2724.2	6.8	B3/5000		
BH (60°-80°)	563.1	1.4	B2/1000		G2/1000
BVH (80°-90°)	7.7	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: P943888
 CATALOG NUMBER: GALN-SB8C-827-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	5778.6	5778.6	5778.6	5778.6	5778.6	5778.6	5778.6	5778.6	5778.6	5778.6
2.5°	5521.6	5568.3	5577.1	5591.7	5591.7	5609.2	5638.4	5679.3	5746.5	5781.6
5°	5089.2	5124.2	5168.1	5203.1	5270.3	5279.1	5393.0	5504.0	5658.9	5775.7
7.5°	4653.9	4694.8	4753.2	4837.9	4925.6	4951.9	5124.2	5311.2	5556.6	5775.7
10°	4347.1	4350.1	4402.6	4487.4	4627.6	4659.7	4870.1	5135.9	5442.7	5740.7
12.5°	4174.8	4195.2	4218.6	4282.9	4417.2	4437.7	4662.6	4975.2	5328.7	5720.2
15°	4174.8	4189.4	4204.0	4236.1	4344.2	4361.7	4560.4	4873.0	5270.3	5729.0
17.5°	4218.6	4242.0	4230.3	4268.3	4382.2	4393.9	4569.2	4843.8	5267.4	5784.5
20°	4323.8	4341.3	4317.9	4341.3	4455.2	4478.6	4659.7	4899.3	5317.1	5880.9
22.5°	4490.3	4499.0	4443.5	4461.1	4577.9	4607.1	4817.5	5057.0	5436.8	6035.7
25°	4700.6	4718.2	4633.4	4653.9	4764.9	4800.0	5042.4	5293.7	5626.7	6249.0
27.5°	4943.1	4951.9	4878.8	4875.9	5019.1	5068.7	5314.1	5585.8	5880.9	6517.8
30°	5220.6	5246.9	5176.8	5165.1	5346.3	5387.2	5629.7	5945.2	6254.8	6920.9
32.5°	5439.8	5460.2	5419.3	5448.5	5632.6	5664.7	6012.4	6453.5	6842.1	7493.5
35°	5755.3	5767.0	5673.5	5726.1	5936.4	6018.2	6535.3	7166.3	7581.2	8212.2
37.5°	6897.6	6897.6	6500.2	6240.2	6441.8	6514.9	7251.1	8063.2	8492.7	9176.3
40°	8478.1	8451.8	7870.4	7338.7	7312.4	7455.6	8270.6	9193.8	9670.0	10333.2
42.5°	10163.8	10122.9	9331.1	8805.3	8717.6	8767.3	9448.0	10587.4	11072.3	11744.3
45°	11659.5	11647.9	10923.3	10216.3	10058.6	10216.3	10917.5	12217.5	12565.2	13272.2
47.5°	12912.8	12912.8	12384.1	11922.5	11840.7	11934.2	12907.0	14025.9	13993.8	14899.4
50°	14356.0	14344.4	13841.9	13643.2	13727.9	13859.4	15197.4	15930.7	15472.0	16497.5
52.5°	15366.9	15437.0	15264.6	15232.5	15664.9	15892.7	17522.9	17794.6	16795.5	18013.7
55°	16167.4	16249.2	16447.8	16672.8	17505.4	17803.4	19775.4	19562.1	17902.7	19328.4
57.5°	17300.9	17184.0	17490.8	17934.8	19281.6	19641.0	21957.7	21230.2	18793.7	20394.7
60°	18676.9	18694.4	18747.0	19307.9	21055.0	21516.5	24107.9	22807.8	19366.3	21049.1
62.5°	20330.4	20356.7	20464.8	21326.6	23435.9	23871.2	26398.3	24099.1	19629.3	20865.1
65°	20216.5	20327.5	21534.1	24481.8	27055.6	27485.1	29071.4	25004.8	19232.0	19182.3
67.5°	18416.9	18598.0	20616.7	28250.5	32512.9	32992.0	32302.6	25183.0	17517.1	14917.0
70°	16056.3	16120.6	18548.3	31639.4	38832.0	39317.0	35194.8	23222.7	13292.6	8320.3
72.5°	12538.9	12553.5	15401.9	32425.3	42261.8	42288.1	32924.8	17239.5	7148.8	3196.1
75°	8957.2	8869.5	10315.7	26296.0	37181.4	37479.4	24683.4	8086.6	2731.6	1510.4
77.5°	4802.9	4899.3	5837.1	15594.7	25685.5	26193.8	13467.9	2331.3	1390.6	1028.4
80°	1484.1	1565.9	2392.7	7140.0	14548.9	14855.6	4992.8	1037.1	969.9	733.3
82.5°	467.4	485.0	1116.0	3000.3	6038.7	6178.9	1446.1	587.2	663.2	485.0
85°	134.4	137.3	496.6	1118.9	1492.9	1522.1	406.1	227.9	379.8	300.9
87.5°	14.6	46.7	187.0	187.0	131.5	128.5	43.8	49.7	108.1	38.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P943888
 CATALOG NUMBER: GALN-SB8C-827-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5778.6	0°	5778.6	5778.6	5778.6	5778.6	5778.6	5778.6	5778.6	5778.6	5778.6	5778.6
5804.9	2.5°	5790.3	5793.3	5755.3	5691.0	5620.9	5562.5	5489.4	5431.0	5390.1	5378.4
5857.5	5°	5831.2	5810.8	5702.7	5506.9	5273.2	5071.7	4846.7	4668.5	4551.6	4502.0
5913.0	7.5°	5892.6	5834.2	5597.5	5211.9	4764.9	4367.6	3964.4	3651.8	3453.2	3353.8
5965.6	10°	5945.2	5828.3	5422.2	4785.3	4101.7	3499.9	2956.5	2579.6	2369.3	2270.0
6027.0	12.5°	5994.8	5825.4	5194.4	4279.9	3353.8	2617.6	2112.2	1925.2	1866.8	1846.4
6126.3	15°	6088.3	5834.2	4908.1	3701.5	2608.9	1977.8	1793.8	1790.9	1802.5	1796.7
6278.2	17.5°	6216.9	5842.9	4583.8	3088.0	2012.9	1744.1	1735.3	1761.6	1779.2	1770.4
6468.1	20°	6383.4	5878.0	4239.0	2480.3	1729.5	1685.7	1706.1	1729.5	1744.1	1729.5
6722.3	22.5°	6617.1	5939.3	3862.2	1992.4	1638.9	1650.6	1668.2	1694.4	1709.1	1688.6
7046.6	25°	6903.4	6035.7	3491.1	1732.4	1595.1	1609.7	1636.0	1665.2	1682.8	1662.3
7455.6	27.5°	7274.4	6190.6	3149.3	1674.0	1551.3	1560.1	1598.0	1641.9	1665.2	1638.9
8036.9	30°	7812.0	6444.7	2854.3	1700.3	1525.0	1504.6	1557.1	1618.5	1644.8	1621.4
8828.6	32.5°	8524.8	6804.1	2673.1	1741.2	1513.3	1440.3	1489.9	1568.8	1612.6	1598.0
9862.8	35°	9459.7	7350.4	2603.0	1787.9	1504.6	1373.1	1408.1	1492.9	1568.8	1583.4
11165.8	37.5°	10593.2	8110.0	2623.5	1808.4	1478.3	1317.6	1335.1	1408.1	1507.5	1554.2
12632.4	40°	11881.6	8995.2	2740.3	1787.9	1449.0	1270.8	1273.8	1329.3	1416.9	1487.0
14210.0	42.5°	13210.8	10029.4	2956.5	1712.0	1422.8	1229.9	1221.2	1259.1	1317.6	1367.2
15784.6	45°	14475.8	11092.8	3169.8	1606.8	1390.6	1189.0	1168.6	1183.2	1194.9	1215.3
17318.4	47.5°	15580.1	11840.7	3108.4	1510.4	1346.8	1142.3	1107.2	1101.4	1066.3	1063.4
18688.6	50°	16342.6	12004.3	2760.8	1414.0	1282.5	1089.7	1034.2	999.1	937.8	908.6
19714.0	52.5°	16585.1	11358.6	2255.4	1317.6	1177.3	1019.6	940.7	885.2	809.2	783.0
20304.1	55°	16263.8	10093.6	1802.5	1200.7	1031.3	926.1	838.5	765.4	704.1	671.9
20368.4	57.5°	15477.9	8483.9	1425.7	1063.4	876.4	820.9	733.3	660.2	607.7	575.5
19655.6	60°	14174.9	6736.9	1127.7	899.8	747.9	707.0	616.4	569.7	522.9	485.0
17815.1	62.5°	12197.1	4808.7	885.2	712.8	625.2	578.4	525.9	490.8	435.3	382.7
14505.0	65°	9518.1	2941.9	683.6	522.9	502.5	479.1	447.0	414.8	347.7	295.1
9462.6	67.5°	6003.6	1393.5	487.9	394.4	397.3	385.6	371.0	344.7	295.1	248.3
4239.0	70°	2643.9	674.9	321.4	300.9	295.1	295.1	306.8	298.0	251.2	207.4
1472.4	72.5°	899.8	362.3	239.6	227.9	213.3	210.3	257.1	248.3	201.6	160.7
733.3	75°	470.4	242.5	175.3	163.6	128.5	154.8	204.5	192.8	143.2	105.2
485.0	77.5°	306.8	172.4	119.8	105.2	73.0	102.3	151.9	134.4	84.7	52.6
318.4	80°	192.8	113.9	70.1	49.7	35.1	55.5	81.8	58.4	32.1	11.7
187.0	82.5°	102.3	58.4	26.3	17.5	14.6	17.5	20.5	14.6	5.8	0.0
96.4	85°	40.9	20.5	8.8	5.8	2.9	0.0	5.8	2.9	0.0	0.0
17.5	87.5°	14.6	2.9	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>
5778.6
5398.9
4519.5
3368.4
2272.9
1840.5
1793.8
1767.5
1726.6
1685.7
1659.4
1638.9
1618.5
1598.0
1583.4
1565.9
1510.4
1387.7
1227.0
1060.5
911.5
780.0
671.9
569.7
476.2
373.9
286.3
242.5
198.7
151.9
96.4
46.7
8.8
0.0
0.0
0.0
0.0

F REPORT)