

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: P953207

Luminaire Tested: **GALN-SB6D-827-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41333 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

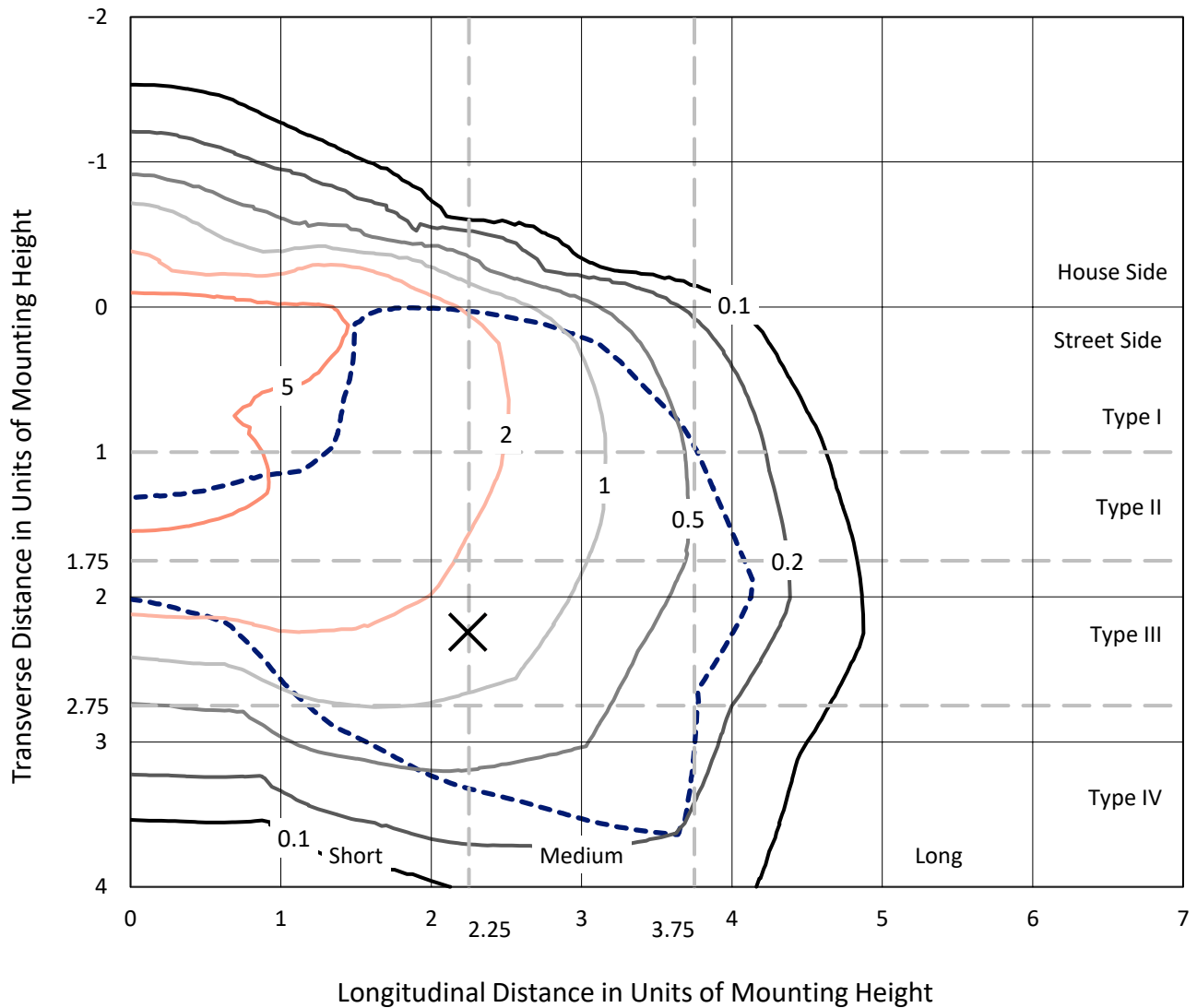
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P953207
 CATALOG NUMBER: GALN-SB6D-827-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

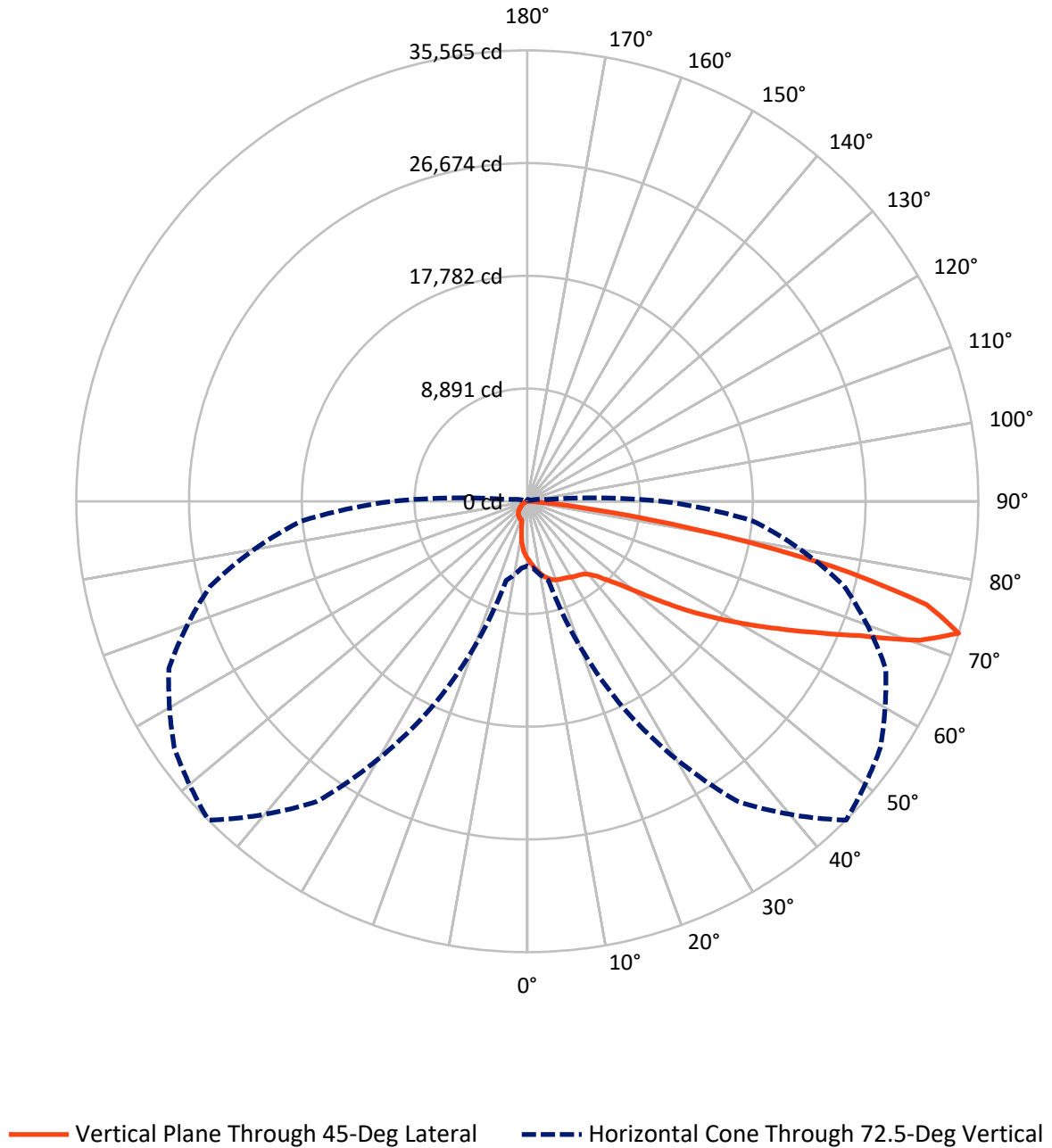
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type IV - Short - N/A

REPORT NUMBER: P953207
CATALOG NUMBER: GALN-SB6D-827-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P953207
 CATALOG NUMBER: GALN-SB6D-827-U-T4W-HSS

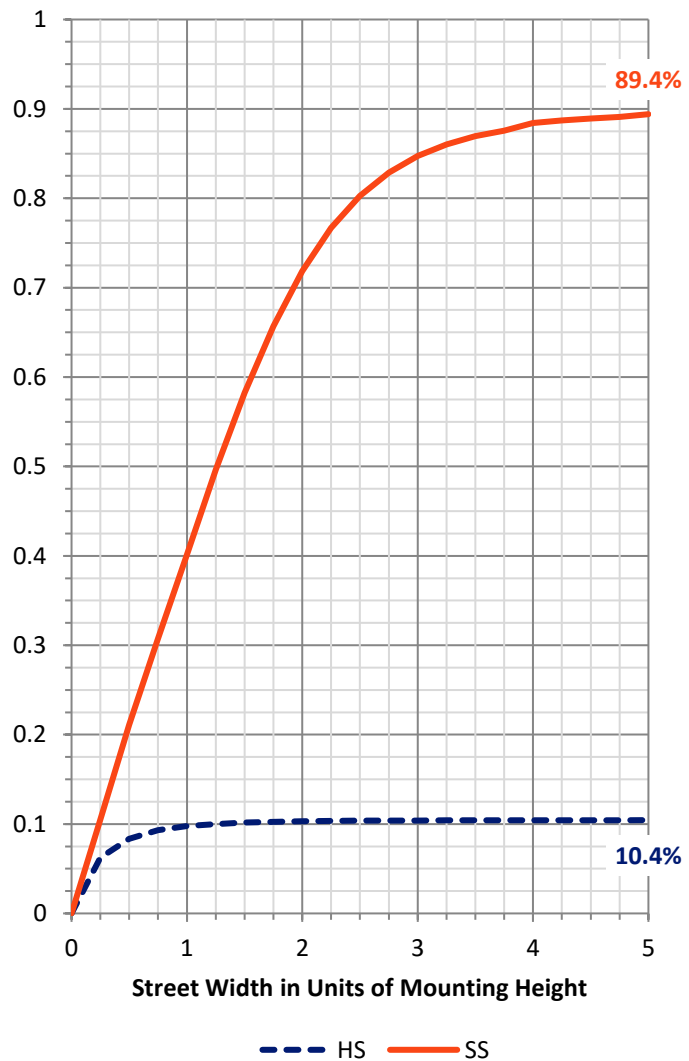
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4343.0	0.0	4343.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	36990.1	0.0	36990.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	41333.0	0.0	41333.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.6	1.0
10°-20°	1246.9	3.0
20°-30°	2047.6	5.0
30°-40°	2904.0	7.0
40°-50°	4799.9	11.6
50°-60°	8622.5	20.9
60°-70°	11972.9	29.0
70°-80°	8684.7	21.0
80°-90°	627.9	1.5
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°	41333.0	100.0
0°-180°	41333.0	100.0

Coefficient of Utilization



REPORT NUMBER: P953207

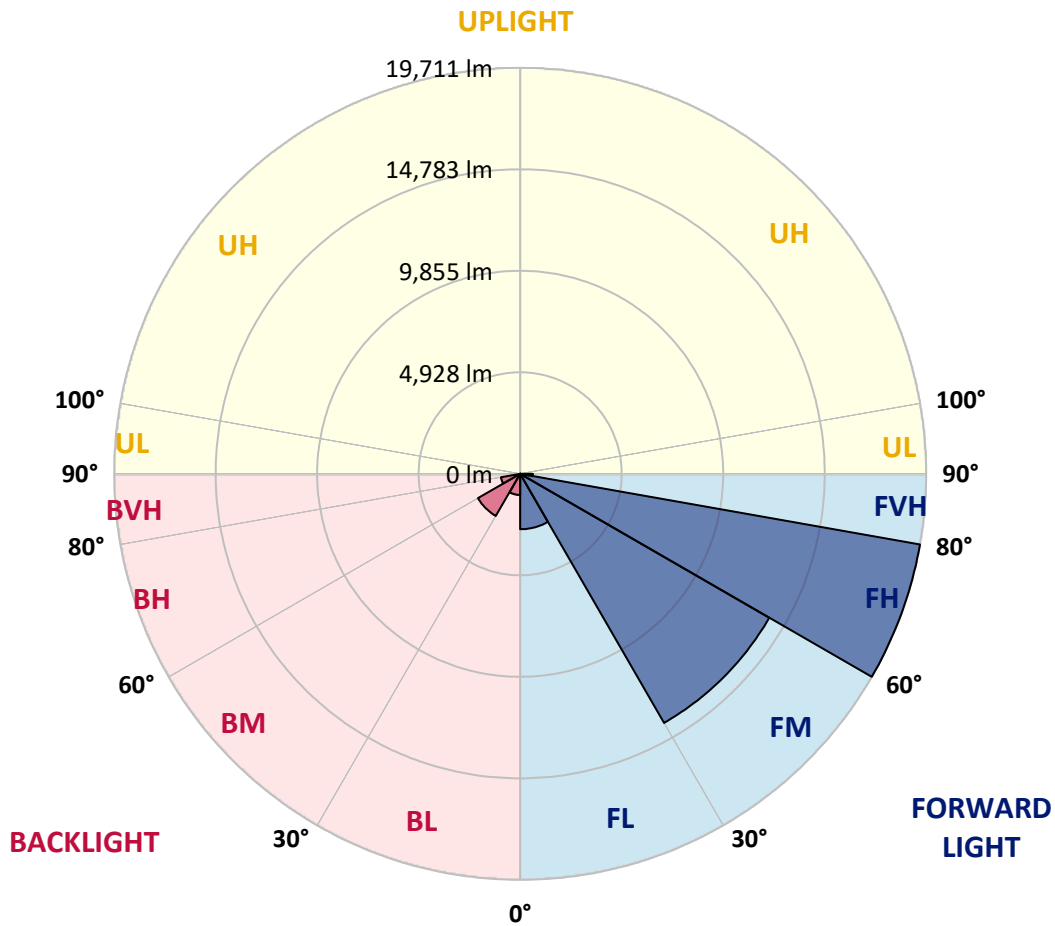
CATALOG NUMBER: GALN-SB6D-827-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2692.4	6.5			
FM (30°-60°)	13964.5	33.8			
FH (60°-80°)	19710.5	47.7			G5
FVH (80°-90°)	622.6	1.5			G4/750
BL (0°-30°)	1028.7	2.5	B3/2500		
BM (30°-60°)	2361.9	5.7	B2/2500		
BH (60°-80°)	947.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	5.3	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: P953207
 CATALOG NUMBER: GALN-SB6D-827-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	4528.1	4528.1	4528.1	4528.1	4528.1	4528.1	4528.1	4528.1	4528.1	4528.1
2.5°	4945.7	4954.1	4948.5	4914.6	4858.2	4827.2	4810.2	4753.8	4717.1	4652.3
5°	5399.9	5433.7	5414.0	5346.3	5239.1	5162.9	5140.3	5024.7	4920.3	4799.0
7.5°	5882.3	5899.2	5862.6	5775.1	5631.2	5501.5	5481.7	5320.9	5154.4	4968.2
10°	6299.9	6319.6	6263.2	6136.2	5972.6	5811.8	5783.6	5605.8	5408.4	5179.8
12.5°	6649.7	6669.5	6596.1	6443.8	6263.2	6096.7	6068.5	5882.3	5665.1	5411.2
15°	6914.9	6951.6	6852.8	6689.2	6494.5	6328.1	6314.0	6130.6	5919.0	5636.9
17.5°	7070.1	7106.7	7013.6	6816.2	6649.7	6508.6	6491.7	6339.4	6141.9	5871.0
20°	7095.5	7129.3	7030.6	6858.5	6720.2	6607.4	6598.9	6488.9	6345.0	6085.5
22.5°	7019.3	7061.6	6971.3	6833.1	6737.2	6677.9	6666.6	6604.6	6522.7	6302.7
25°	6940.3	6974.1	6906.4	6785.1	6734.3	6728.7	6737.2	6725.9	6709.0	6522.7
27.5°	6934.7	6971.3	6895.2	6779.5	6751.3	6810.5	6819.0	6872.6	6886.7	6723.1
30°	6982.6	7008.0	6934.7	6813.3	6799.2	6934.7	6937.5	7033.4	7056.0	6892.3
32.5°	7087.0	7115.2	7041.9	6864.1	6844.4	7033.4	7041.9	7168.8	7205.5	7072.9
35°	7332.4	7366.3	7281.7	7005.2	6934.7	7126.5	7151.9	7301.4	7374.8	7264.7
37.5°	7944.7	7845.9	7730.2	7290.1	7140.6	7273.2	7315.5	7490.4	7620.2	7493.3
40°	9465.3	9155.0	8793.9	7775.4	7501.7	7586.4	7620.2	7795.1	7972.9	7848.7
42.5°	11747.7	11381.0	10799.8	8892.6	8046.2	8088.5	8113.9	8266.3	8517.4	8418.6
45°	13781.8	13649.2	13056.8	10799.8	9064.7	8855.9	8887.0	8966.0	9335.5	9298.9
47.5°	15344.8	15268.6	14811.6	12989.1	10785.7	9795.4	9882.9	9919.5	10452.8	10582.5
50°	16546.7	16518.5	16109.4	14935.7	13034.2	11180.6	11211.7	11132.7	11931.1	12252.7
52.5°	17680.8	17776.7	17474.9	16744.2	15435.1	12994.7	12989.1	12616.7	13694.4	14179.6
55°	18704.9	18738.8	18769.8	18589.3	17850.1	15059.9	15006.3	14396.9	15739.8	16242.0
57.5°	19667.0	19681.1	19957.6	20327.2	20363.8	17277.4	17178.6	16447.9	17974.2	18332.5
60°	20313.1	20377.9	20961.9	21988.9	22437.5	19565.4	19511.8	18767.0	20248.2	20414.6
62.5°	19382.0	19777.0	21249.7	23286.7	24395.4	22101.7	22076.3	21376.7	22640.6	22505.2
65°	15689.0	16357.7	18947.6	24164.1	26316.7	24934.3	24970.9	24226.1	25097.9	24657.8
67.5°	10974.7	11680.0	14743.9	24234.6	28463.7	28260.5	28472.1	27304.1	27707.6	26720.1
70°	7589.2	7953.1	9947.8	22716.8	30136.7	32842.3	32836.6	31084.6	30303.1	27659.6
72.5°	5103.7	5292.7	6460.7	18022.2	28906.6	35564.8	35401.1	33973.6	31177.7	25868.1
75°	2152.6	2290.9	2990.5	10128.3	22869.1	32537.6	32094.6	30023.8	27701.9	20369.5
77.5°	682.7	742.0	1179.3	3625.3	12596.9	24457.5	23989.2	18750.1	18566.7	10218.6
80°	324.4	378.0	663.0	1455.8	4956.9	13302.2	13237.3	8506.1	7987.0	2759.2
82.5°	141.1	166.5	366.8	778.7	2217.5	4745.4	4841.3	2894.6	2395.2	1046.7
85°	45.1	59.2	169.3	358.3	936.7	1179.3	1165.2	688.4	964.9	569.9
87.5°	0.0	0.0	56.4	81.8	95.9	67.7	76.2	59.2	268.0	158.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P953207
 CATALOG NUMBER: GALN-SB6D-827-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4528.1	0°	4528.1	4528.1	4528.1	4528.1	4528.1	4528.1	4528.1	4528.1	4528.1	4528.1
4584.5	2.5°	4550.7	4505.5	4426.6	4353.2	4288.3	4223.4	4183.9	4127.5	4121.9	4121.9
4657.9	5°	4581.7	4508.4	4367.3	4217.8	4045.7	3882.1	3718.4	3560.4	3509.6	3473.0
4776.4	7.5°	4672.0	4556.3	4333.5	4048.5	3721.2	3362.9	3111.8	2841.0	2736.6	2680.2
4934.4	10°	4801.8	4643.8	4305.2	3805.9	3275.5	2787.4	2429.1	2135.7	2022.8	1974.9
5106.5	12.5°	4945.7	4751.0	4254.5	3504.0	2787.4	2203.4	1853.6	1718.1	1701.2	1701.2
5312.4	15°	5117.8	4880.8	4167.0	3148.5	2276.8	1743.5	1619.4	1625.0	1642.0	1653.3
5512.7	17.5°	5295.5	5019.0	4028.8	2750.7	1825.4	1568.6	1571.4	1579.9	1594.0	1605.3
5730.0	20°	5487.3	5157.3	3845.4	2327.5	1565.8	1517.8	1526.3	1534.8	1546.0	1551.7
5933.1	22.5°	5693.3	5287.0	3628.1	1912.8	1478.3	1475.5	1478.3	1486.8	1500.9	1500.9
6170.1	25°	5913.4	5430.9	3379.9	1610.9	1433.2	1433.2	1438.8	1444.5	1455.8	1455.8
6398.6	27.5°	6139.1	5563.5	3117.5	1452.9	1393.7	1390.9	1390.9	1399.3	1405.0	1407.8
6624.3	30°	6387.3	5718.7	2855.1	1419.1	1362.7	1348.6	1340.1	1345.7	1351.4	1354.2
6861.3	32.5°	6641.2	5868.2	2620.9	1433.2	1331.6	1306.2	1278.0	1272.4	1272.4	1283.7
7106.7	35°	6923.4	6031.8	2440.4	1481.2	1314.7	1244.2	1199.0	1173.6	1176.5	1193.4
7400.2	37.5°	7261.9	6229.3	2307.8	1523.5	1303.4	1173.6	1100.3	1069.3	1049.5	1069.3
7803.6	40°	7704.9	6519.9	2211.9	1557.3	1289.3	1091.8	993.1	942.3	905.6	916.9
8429.9	42.5°	8356.6	6977.0	2175.2	1560.2	1258.3	995.9	883.1	815.3	761.7	764.6
9372.2	45°	9270.7	7699.2	2364.2	1523.5	1190.6	891.5	767.4	677.1	643.2	634.8
10780.0	47.5°	10523.3	8751.5	2801.5	1447.3	1091.8	790.0	654.5	578.4	553.0	538.9
12627.9	50°	12201.9	10102.9	3286.8	1362.7	993.1	694.0	561.4	513.5	496.5	482.4
14820.1	52.5°	14148.6	11474.1	3684.6	1278.0	894.3	609.4	502.2	474.0	459.9	448.6
16936.0	55°	15934.5	12419.2	3662.0	1187.7	798.4	541.7	459.9	442.9	426.0	414.7
18758.5	57.5°	17046.0	12551.8	3018.7	1089.0	688.4	488.1	420.4	409.1	389.3	375.2
20335.6	60°	17556.7	11795.7	2115.9	959.2	578.4	437.3	378.0	372.4	347.0	327.3
21828.1	62.5°	17649.8	10390.7	1410.6	798.4	482.4	389.3	335.7	327.3	293.4	259.6
23041.2	65°	17271.7	8382.0	976.2	623.5	411.9	338.6	287.8	270.8	234.2	200.3
23329.0	67.5°	16075.5	5885.1	679.9	448.6	349.8	268.0	228.5	222.9	194.7	166.5
21861.9	70°	13883.4	3354.5	454.2	335.7	276.5	183.4	180.6	186.2	158.0	135.4
17861.4	72.5°	10644.6	1534.8	282.1	245.4	189.0	124.1	143.9	146.7	121.3	101.6
11144.0	75°	6266.0	657.4	177.7	158.0	95.9	81.8	104.4	107.2	81.8	64.9
4073.9	77.5°	2132.9	248.3	112.9	93.1	48.0	45.1	67.7	67.7	45.1	25.4
818.2	80°	485.3	93.1	56.4	36.7	22.6	19.7	22.6	19.7	11.3	2.8
251.1	82.5°	138.2	36.7	22.6	14.1	8.5	8.5	2.8	0.0	0.0	0.0
87.5	85°	39.5	16.9	5.6	5.6	0.0	0.0	0.0	0.0	0.0	0.0
31.0	87.5°	16.9	2.8	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>
4528.1
4136.0
3489.9
2688.7
1974.9
1701.2
1653.3
1605.3
1554.5
1506.6
1458.6
1410.6
1359.8
1292.1
1201.9
1063.6
911.3
753.3
623.5
530.4
479.6
445.8
409.1
372.4
321.6
242.6
189.0
158.0
124.1
90.3
56.4
19.7
0.0
0.0
0.0
0.0
0.0

F REPORT)