

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: P939838

Luminaire Tested: **GALN-SB2C-840-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939838
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-SB2C-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 4000K, 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: 10847 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

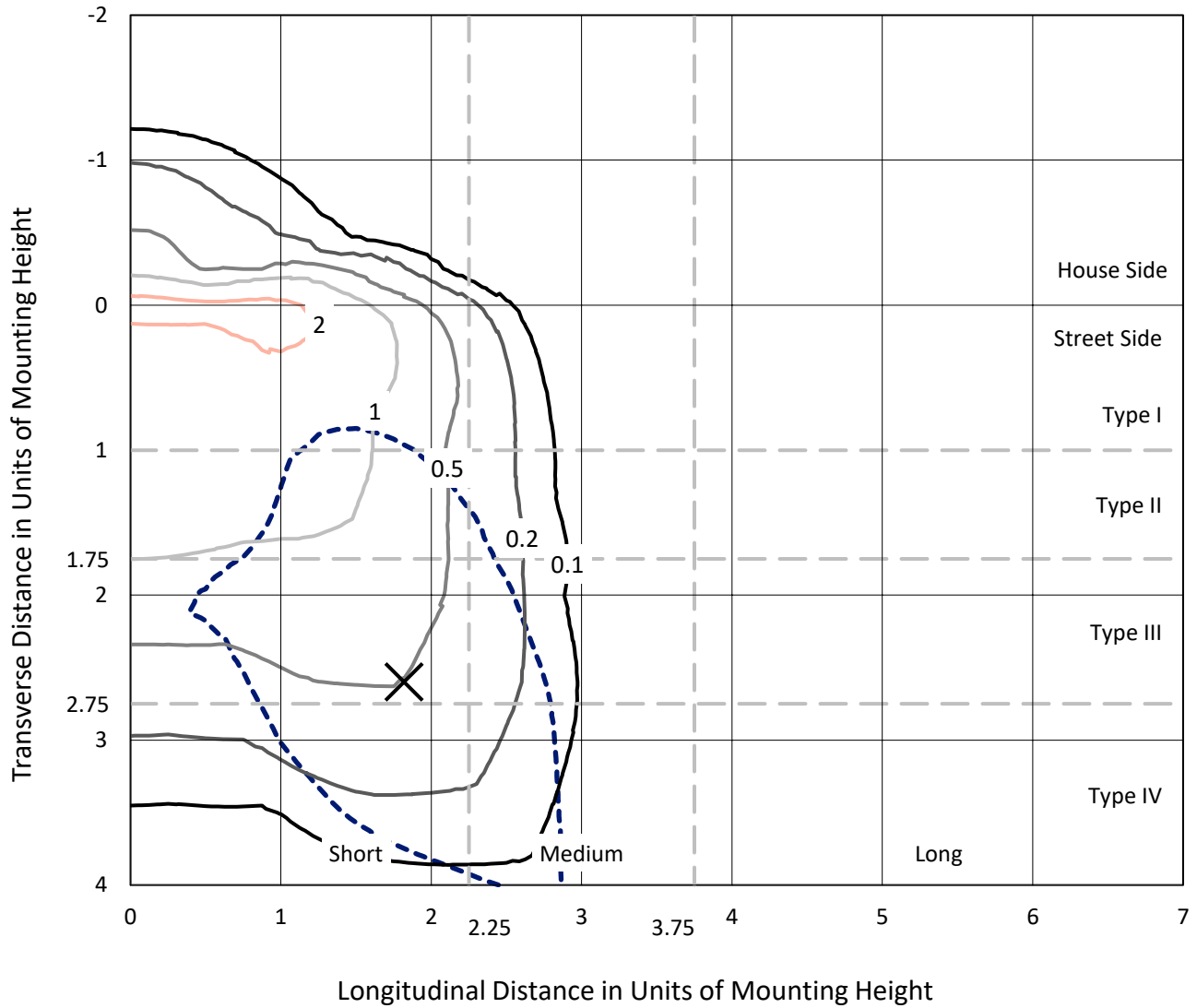
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P939838
 CATALOG NUMBER: GALN-SB2C-840-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

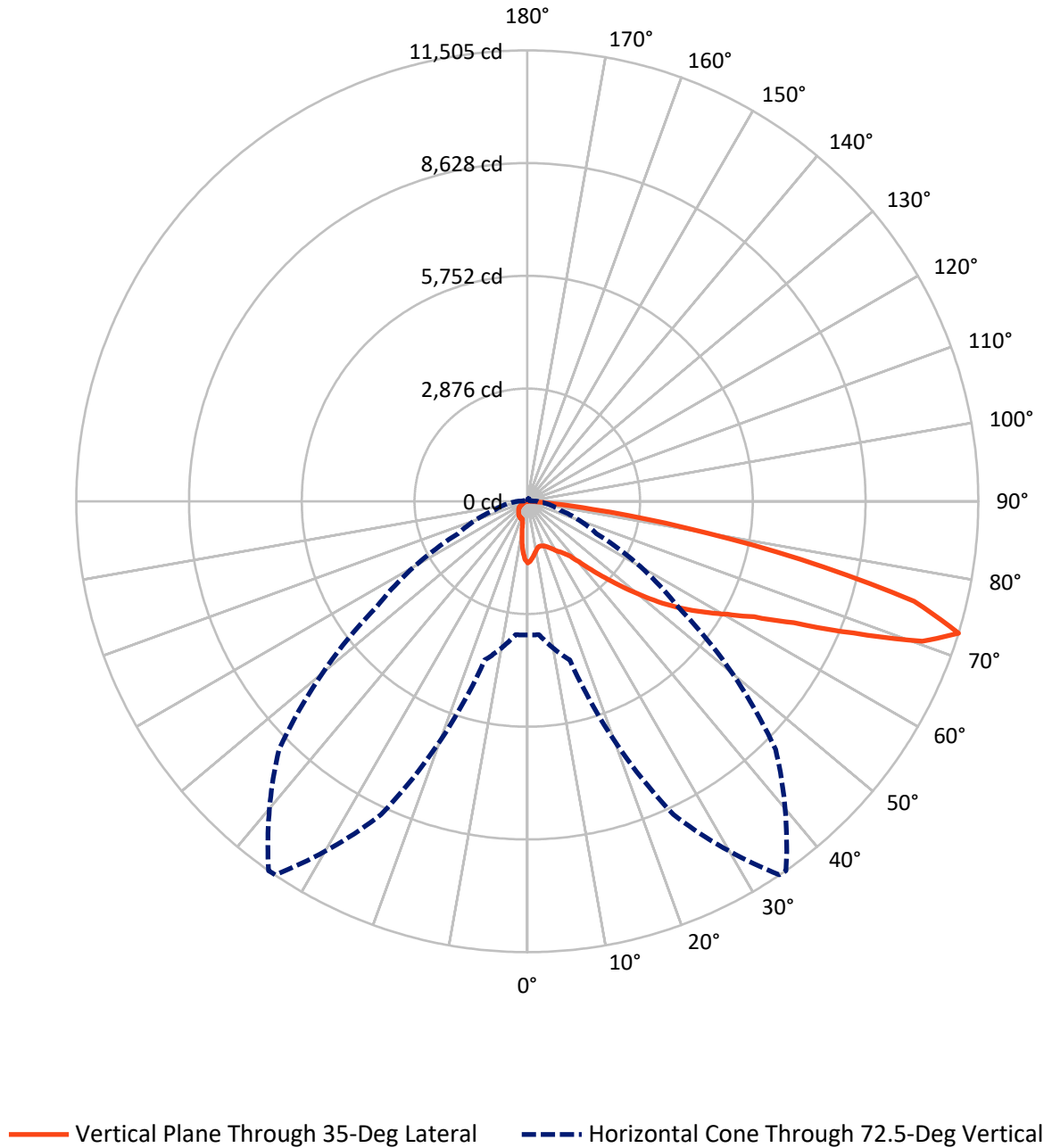
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P939838
CATALOG NUMBER: GALN-SB2C-840-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P939838
 CATALOG NUMBER: GALN-SB2C-840-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1220.8	0.0	1220.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	9626.2	0.0	9626.2
	% Fixture	88.7	0.0	88.7
Total	Lumens	10847.0	0.0	10847.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	1.2
10°-20°	302.2	2.8
20°-30°	490.9	4.5
30°-40°	819.1	7.6
40°-50°	1549.8	14.3
50°-60°	2462.6	22.7
60°-70°	3046.4	28.1
70°-80°	1893.7	17.5
80°-90°	153.0	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°	10847.0	100.0
0°-180°	10847.0	100.0

Coefficient of Utilization



REPORT NUMBER: P939838

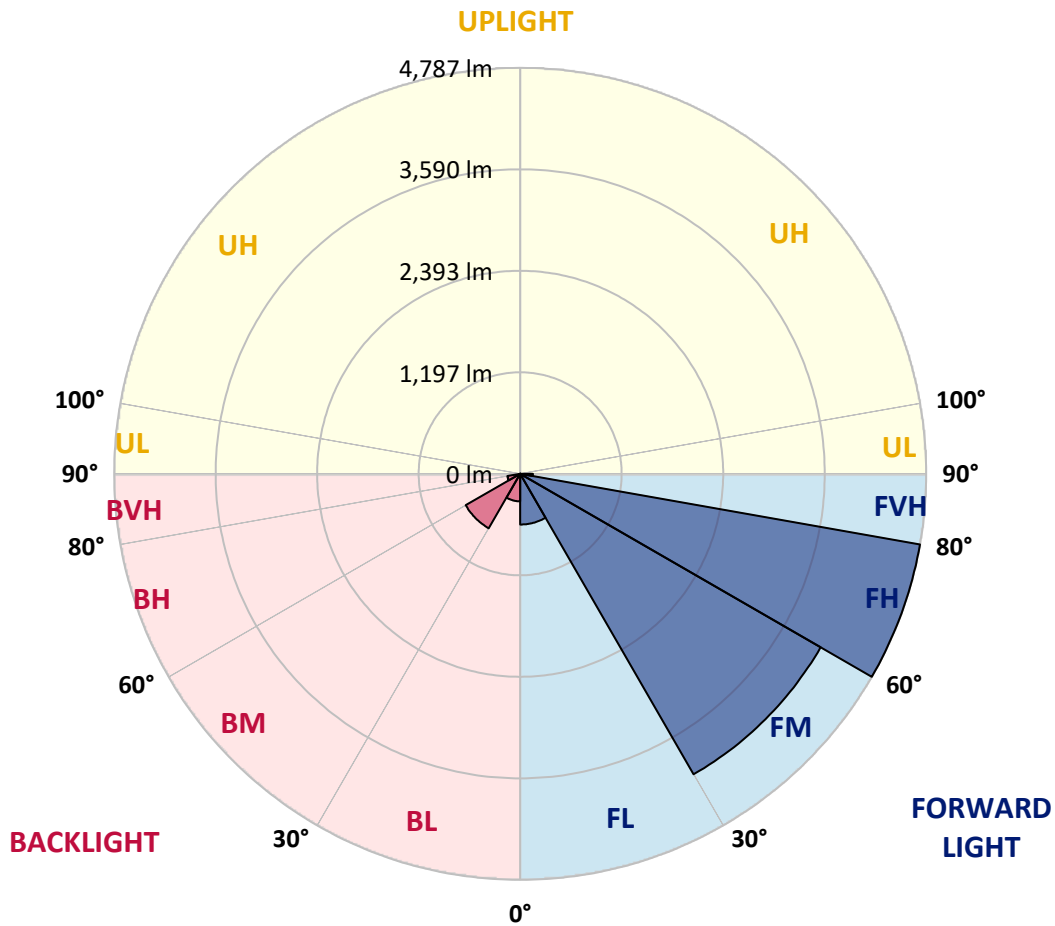
CATALOG NUMBER: GALN-SB2C-840-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	597.9	5.5			
FM (30°-60°)	4090.4	37.7			
FH (60°-80°)	4786.9	44.1			G2/5000
FVH (80°-90°)	151.0	1.4			G2/225
BL (0°-30°)	324.4	3.0	B1/500		
BM (30°-60°)	741.1	6.8	B1/1000		
BH (60°-80°)	153.2	1.4	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



REPORT NUMBER: P939838

CATALOG NUMBER: GALN-SB2C-840-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	1572.1	1572.1	1572.1	1572.1	1572.1	1572.1	1572.1	1572.1	1572.1	1572.1
2.5°	1502.2	1514.9	1517.3	1521.2	1521.2	1526.0	1533.9	1545.1	1563.4	1572.9
5°	1384.5	1394.1	1406.0	1415.5	1433.8	1436.2	1467.2	1497.4	1539.5	1571.3
7.5°	1266.1	1277.2	1293.1	1316.2	1340.0	1347.2	1394.1	1444.9	1511.7	1571.3
10°	1182.6	1183.4	1197.7	1220.8	1258.9	1267.7	1324.9	1397.2	1480.7	1561.8
12.5°	1135.8	1141.3	1147.7	1165.2	1201.7	1207.3	1268.5	1353.5	1449.7	1556.2
15°	1135.8	1139.7	1143.7	1152.4	1181.9	1186.6	1240.7	1325.7	1433.8	1558.6
17.5°	1147.7	1154.0	1150.9	1161.2	1192.2	1195.4	1243.1	1317.8	1433.0	1573.7
20°	1176.3	1181.1	1174.7	1181.1	1212.1	1218.4	1267.7	1332.9	1446.5	1599.9
22.5°	1221.6	1224.0	1208.9	1213.6	1245.4	1253.4	1310.6	1375.8	1479.1	1642.0
25°	1278.8	1283.6	1260.5	1266.1	1296.3	1305.8	1371.8	1440.2	1530.8	1700.1
27.5°	1344.8	1347.2	1327.3	1326.5	1365.4	1379.0	1445.7	1519.6	1599.9	1773.2
30°	1420.3	1427.4	1408.4	1405.2	1454.5	1465.6	1531.6	1617.4	1701.6	1882.9
32.5°	1479.9	1485.5	1474.3	1482.3	1532.4	1541.1	1635.7	1755.7	1861.4	2038.6
35°	1565.7	1568.9	1543.5	1557.8	1615.0	1637.3	1777.9	1949.6	2062.5	2234.2
37.5°	1876.5	1876.5	1768.4	1697.7	1752.5	1772.4	1972.7	2193.6	2310.5	2496.4
40°	2306.5	2299.3	2141.2	1996.5	1989.4	2028.3	2250.0	2501.2	2630.8	2811.2
42.5°	2765.1	2753.9	2538.6	2395.5	2371.7	2385.2	2570.3	2880.3	3012.3	3195.1
45°	3172.0	3168.8	2971.7	2779.4	2736.5	2779.4	2970.1	3323.8	3418.4	3610.7
47.5°	3513.0	3513.0	3369.1	3243.5	3221.3	3246.7	3511.4	3815.8	3807.0	4053.4
50°	3905.6	3902.4	3765.7	3711.7	3734.7	3770.5	4134.5	4334.0	4209.2	4488.2
52.5°	4180.6	4199.7	4152.8	4144.0	4261.7	4323.7	4767.1	4841.1	4569.2	4900.7
55°	4398.4	4420.6	4474.7	4535.9	4762.4	4843.4	5379.9	5321.9	4870.5	5258.3
57.5°	4706.7	4675.0	4758.4	4879.2	5245.6	5343.4	5973.6	5775.7	5112.9	5548.4
60°	5081.1	5085.9	5100.2	5252.8	5728.0	5853.6	6558.6	6204.9	5268.7	5726.5
62.5°	5530.9	5538.1	5567.5	5802.0	6375.8	6494.2	7181.7	6556.2	5340.2	5676.4
65°	5499.9	5530.1	5858.4	6660.3	7360.5	7477.4	7909.0	6802.6	5232.1	5218.6
67.5°	5010.4	5059.6	5608.8	7685.6	8845.2	8975.6	8788.0	6851.1	4765.6	4058.2
70°	4368.2	4385.6	5046.1	8607.6	10564.3	10696.3	9574.8	6317.8	3616.3	2263.6
72.5°	3411.2	3415.2	4190.1	8821.4	11497.4	11504.6	8957.3	4690.1	1944.9	869.5
75°	2436.8	2413.0	2806.4	7153.9	10115.3	10196.4	6715.2	2200.0	743.1	410.9
77.5°	1306.6	1332.9	1588.0	4242.6	6987.8	7126.1	3664.0	634.2	378.3	279.8
80°	403.8	426.0	650.9	1942.5	3958.1	4041.5	1358.3	282.2	263.9	199.5
82.5°	127.2	131.9	303.6	816.2	1642.8	1681.0	393.4	159.8	180.4	131.9
85°	36.6	37.4	135.1	304.4	406.1	414.1	110.5	62.0	103.3	81.9
87.5°	4.0	12.7	50.9	50.9	35.8	35.0	11.9	13.5	29.4	10.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939838
 CATALOG NUMBER: GALN-SB2C-840-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1572.1	0°	1572.1	1572.1	1572.1	1572.1	1572.1	1572.1	1572.1	1572.1	1572.1	1572.1
1579.2	2.5°	1575.3	1576.1	1565.7	1548.3	1529.2	1513.3	1493.4	1477.5	1466.4	1463.2
1593.6	5°	1586.4	1580.8	1551.4	1498.2	1434.6	1379.8	1318.6	1270.1	1238.3	1224.8
1608.7	7.5°	1603.1	1587.2	1522.8	1417.9	1296.3	1188.2	1078.5	993.5	939.4	912.4
1623.0	10°	1617.4	1585.6	1475.1	1301.9	1115.9	952.2	804.3	701.8	644.6	617.6
1639.7	12.5°	1630.9	1584.8	1413.1	1164.4	912.4	712.1	574.6	523.8	507.9	502.3
1666.7	15°	1656.3	1587.2	1335.2	1007.0	709.7	538.1	488.0	487.2	490.4	488.8
1708.0	17.5°	1691.3	1589.6	1247.0	840.1	547.6	474.5	472.1	479.3	484.0	481.6
1759.7	20°	1736.6	1599.1	1153.2	674.8	470.5	458.6	464.2	470.5	474.5	470.5
1828.8	22.5°	1800.2	1615.8	1050.7	542.0	445.9	449.1	453.8	461.0	465.0	459.4
1917.0	25°	1878.1	1642.0	949.8	471.3	434.0	437.9	445.1	453.0	457.8	452.2
2028.3	27.5°	1979.0	1684.2	856.8	455.4	422.0	424.4	434.7	446.7	453.0	445.9
2186.5	30°	2125.3	1753.3	776.5	462.6	414.9	409.3	423.6	440.3	447.5	441.1
2401.9	32.5°	2319.2	1851.1	727.2	473.7	411.7	391.8	405.3	426.8	438.7	434.7
2683.2	35°	2573.5	1999.7	708.2	486.4	409.3	373.6	383.1	406.1	426.8	430.8
3037.7	37.5°	2881.9	2206.3	713.7	492.0	402.2	358.5	363.2	383.1	410.1	422.8
3436.7	40°	3232.4	2447.2	745.5	486.4	394.2	345.7	346.5	361.6	385.5	404.5
3865.9	42.5°	3594.0	2728.5	804.3	465.7	387.1	334.6	332.2	342.6	358.5	372.0
4294.2	45°	3938.2	3017.8	862.3	437.1	378.3	323.5	317.9	321.9	325.1	330.6
4711.5	47.5°	4238.6	3221.3	845.7	410.9	366.4	310.8	301.2	299.6	290.1	289.3
5084.3	50°	4446.1	3265.8	751.1	384.7	348.9	296.5	281.4	271.8	255.1	247.2
5363.2	52.5°	4512.0	3090.1	613.6	358.5	320.3	277.4	255.9	240.8	220.2	213.0
5523.8	55°	4424.6	2746.0	490.4	326.7	280.6	251.9	228.1	208.2	191.5	182.8
5541.3	57.5°	4210.8	2308.1	387.9	289.3	238.4	223.3	199.5	179.6	165.3	156.6
5347.3	60°	3856.3	1832.8	306.8	244.8	203.5	192.3	167.7	155.0	142.3	131.9
4846.6	62.5°	3318.2	1308.2	240.8	193.9	170.1	157.4	143.1	133.5	118.4	104.1
3946.1	65°	2589.4	800.4	186.0	142.3	136.7	130.3	121.6	112.9	94.6	80.3
2574.3	67.5°	1633.3	379.1	132.7	107.3	108.1	104.9	100.9	93.8	80.3	67.6
1153.2	70°	719.3	183.6	87.4	81.9	80.3	80.3	83.5	81.1	68.4	56.4
400.6	72.5°	244.8	98.6	65.2	62.0	58.0	57.2	69.9	67.6	54.8	43.7
199.5	75°	128.0	66.0	47.7	44.5	35.0	42.1	55.6	52.5	38.9	28.6
131.9	77.5°	83.5	46.9	32.6	28.6	19.9	27.8	41.3	36.6	23.0	14.3
86.6	80°	52.5	31.0	19.1	13.5	9.5	15.1	22.3	15.9	8.7	3.2
50.9	82.5°	27.8	15.9	7.2	4.8	4.0	4.8	5.6	4.0	1.6	0.0
26.2	85°	11.1	5.6	2.4	1.6	0.8	0.0	1.6	0.8	0.0	0.0
4.8	87.5°	4.0	0.8	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>
1572.1
1468.8
1229.5
916.4
618.3
500.7
488.0
480.8
469.7
458.6
451.4
445.9
440.3
434.7
430.8
426.0
410.9
377.5
333.8
288.5
248.0
212.2
182.8
155.0
129.6
101.7
77.9
66.0
54.0
41.3
26.2
12.7
2.4
0.0
0.0
0.0
0.0

F REPORT)