

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: P940027

Luminaire Tested: **GALN-SB2D-927-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-927-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12396 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

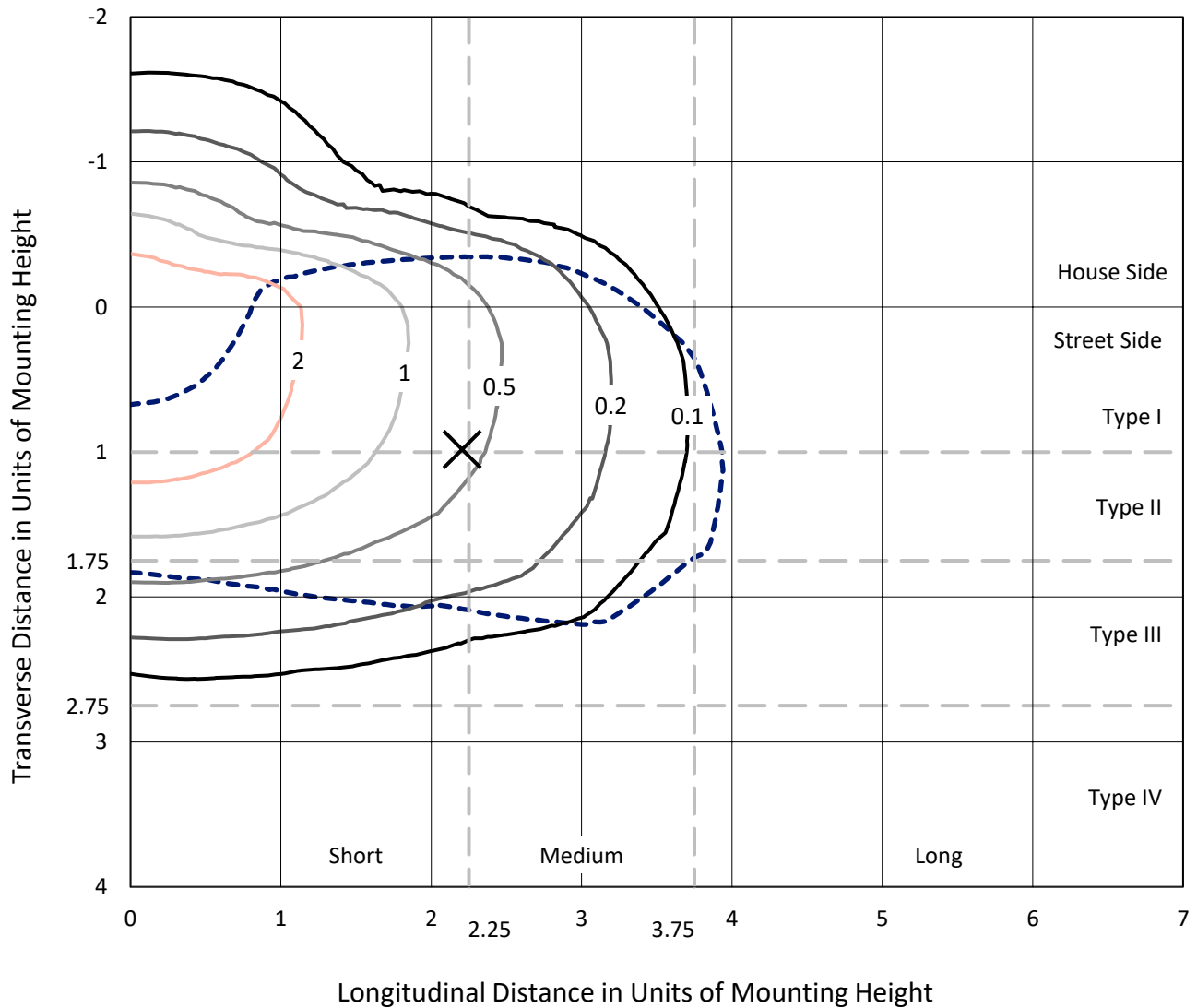
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P940027
 CATALOG NUMBER: GALN-SB2D-927-U-T3

Iso-Footcandle Lines of Horizontal Illumination

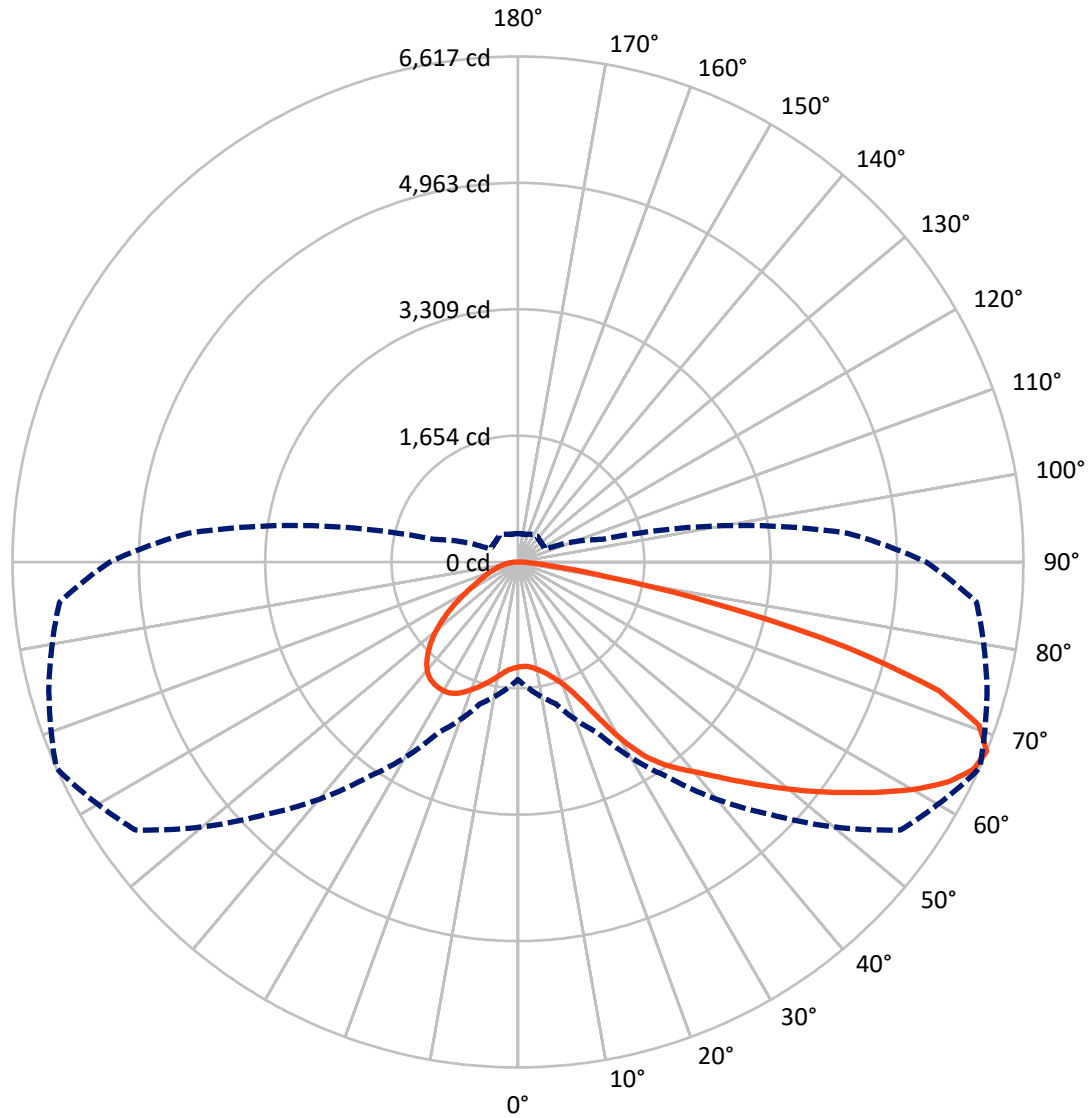
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Short - N/A

REPORT NUMBER: P940027
CATALOG NUMBER: GALN-SB2D-927-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P940027
 CATALOG NUMBER: GALN-SB2D-927-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3082.2	0.0	3082.2
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	9313.8	0.0	9313.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	12396.0	0.0	12396.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.3	1.1
10°-20°	450.4	3.6
20°-30°	868.0	7.0
30°-40°	1522.0	12.3
40°-50°	2262.7	18.3
50°-60°	2868.2	23.1
60°-70°	2806.5	22.6
70°-80°	1338.7	10.8
80°-90°	143.1	1.2
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°	12396.0	100.0
0°-180°	12396.0	100.0

Coefficient of Utilization



REPORT NUMBER: P940027

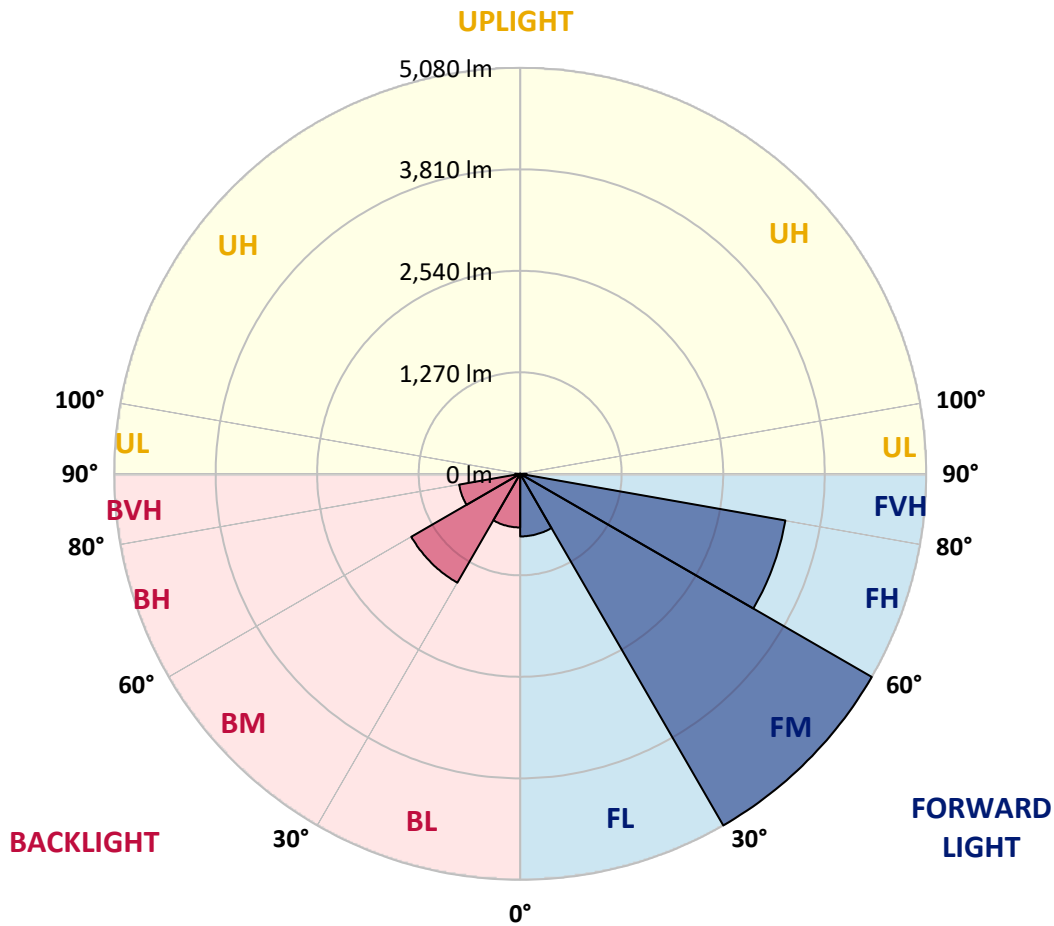
CATALOG NUMBER: GALN-SB2D-927-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	783.3	6.3			
FM (30°-60°)	5079.8	41.0			
FH (60°-80°)	3369.6	27.2			G2/5000
FVH (80°-90°)	81.1	0.7			G1/100
BL (0°-30°)	671.4	5.4	B2/1000		
BM (30°-60°)	1573.2	12.7	B2/2500		
BH (60°-80°)	775.6	6.3	B2/1000		G2/1000
BVH (80°-90°)	62.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



REPORT NUMBER: P940027

CATALOG NUMBER: GALN-SB2D-927-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°
0°	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9
2.5°	1360.6	1368.4	1366.4	1363.2	1362.5	1363.8	1365.8	1367.7	1367.1	1370.3
5°	1356.6	1364.5	1363.8	1363.8	1366.4	1371.6	1374.9	1378.1	1374.9	1378.8
7.5°	1359.2	1365.1	1367.7	1370.3	1376.8	1386.6	1394.4	1401.6	1397.7	1402.2
10°	1392.5	1397.0	1399.6	1399.6	1404.2	1415.3	1423.1	1436.1	1432.8	1440.0
12.5°	1453.0	1457.6	1457.6	1455.0	1458.2	1465.4	1468.0	1482.3	1476.5	1488.2
15°	1527.3	1536.4	1529.2	1524.7	1526.0	1533.1	1532.5	1543.6	1537.7	1547.5
17.5°	1609.3	1621.1	1609.3	1608.7	1606.1	1613.9	1614.6	1624.3	1613.9	1621.1
20°	1706.4	1722.7	1712.9	1716.2	1710.3	1713.6	1716.8	1731.1	1714.9	1720.1
22.5°	1843.2	1862.7	1852.3	1864.7	1860.7	1858.1	1857.5	1882.9	1857.5	1859.4
25°	2042.5	2065.9	2047.7	2064.6	2064.6	2073.1	2082.8	2115.4	2073.1	2060.7
27.5°	2336.8	2360.3	2324.5	2334.9	2331.6	2352.5	2342.1	2422.8	2377.2	2357.0
30°	2691.1	2732.8	2665.1	2662.5	2659.2	2692.4	2707.4	2760.8	2714.6	2694.4
32.5°	3074.1	3117.7	3037.0	3013.5	3001.2	3021.3	3009.0	3052.0	3020.0	2988.8
35°	3479.2	3522.2	3445.3	3399.8	3350.3	3307.9	3263.6	3274.7	3244.7	3197.2
37.5°	3862.2	3941.0	3859.6	3810.7	3719.5	3636.8	3513.1	3461.6	3433.6	3390.0
40°	4252.3	4297.2	4235.4	4193.7	4094.7	3965.1	3767.1	3658.3	3620.5	3578.2
42.5°	4539.5	4582.5	4549.3	4520.6	4443.1	4292.7	4036.7	3900.6	3845.9	3798.3
45°	4767.5	4799.4	4778.5	4789.0	4755.7	4609.9	4316.1	4160.5	4103.8	4045.8
47.5°	4859.3	4893.2	4926.4	4988.3	5044.9	4937.5	4616.4	4441.8	4381.9	4322.6
50°	4848.9	4883.4	4979.8	5111.4	5287.2	5251.4	4932.9	4741.4	4686.1	4618.3
52.5°	4765.5	4804.6	4928.3	5147.2	5427.2	5486.5	5255.3	5050.8	4998.7	4917.9
55°	4546.7	4570.1	4755.7	5065.8	5460.4	5650.6	5571.2	5380.3	5328.2	5215.6
57.5°	4140.9	4174.8	4445.1	4846.3	5377.1	5762.0	5848.6	5726.8	5676.7	5514.5
60°	3611.4	3665.5	3974.8	4477.6	5164.8	5761.3	6100.7	6067.4	6025.8	5808.9
62.5°	3012.2	3074.8	3372.4	3956.6	4793.5	5597.9	6258.3	6352.7	6331.2	6080.5
65°	2313.4	2356.4	2652.7	3282.5	4215.8	5246.8	6276.5	6547.5	6551.4	6286.9
67.5°	1540.3	1664.1	1921.3	2463.2	3442.1	4673.0	6116.3	6579.4	6617.1	6357.9
70°	751.6	914.4	1166.5	1600.9	2463.2	3793.1	5697.5	6317.5	6401.6	6150.8
72.5°	312.0	364.7	502.1	790.0	1414.0	2559.6	4856.0	5607.6	5763.3	5450.0
75°	210.4	228.0	287.2	405.1	644.1	1262.2	3502.0	4181.3	4432.1	4116.2
77.5°	162.2	173.2	209.1	283.3	383.0	477.4	1874.4	2519.9	2649.5	2452.8
80°	127.7	136.1	156.3	206.5	271.6	255.3	638.9	1141.7	1216.6	1020.6
82.5°	110.7	114.0	112.0	140.0	180.4	149.1	209.7	421.4	465.0	337.4
85°	80.1	89.2	93.1	86.6	95.7	75.6	86.0	149.1	164.1	146.5
87.5°	32.6	48.2	59.3	56.0	35.2	21.5	26.7	43.6	50.1	54.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P940027
 CATALOG NUMBER: GALN-SB2D-927-U-T3

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1374.9	0°	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9	1374.9
1375.5	2.5°	1376.2	1380.7	1384.0	1387.9	1390.5	1394.4	1402.2	1406.8	1407.4	1410.7
1386.0	5°	1388.6	1395.1	1402.2	1412.7	1424.4	1434.1	1449.1	1459.5	1463.5	1466.7
1411.4	7.5°	1415.3	1424.4	1437.4	1455.6	1472.6	1485.6	1503.8	1516.2	1528.6	1533.1
1451.7	10°	1455.0	1468.0	1486.9	1511.7	1529.9	1546.8	1565.7	1576.1	1588.5	1593.7
1499.9	12.5°	1504.5	1518.2	1542.9	1577.4	1594.4	1606.1	1612.6	1610.0	1612.6	1617.2
1557.9	15°	1561.2	1576.1	1604.1	1641.3	1653.0	1642.6	1628.2	1615.2	1613.3	1614.6
1628.2	17.5°	1628.2	1639.3	1671.9	1703.1	1694.7	1651.7	1620.4	1599.6	1589.2	1585.9
1718.1	20°	1722.0	1722.0	1748.7	1768.3	1711.6	1638.7	1589.8	1555.9	1534.4	1525.3
1840.6	22.5°	1836.0	1825.6	1842.5	1828.8	1708.3	1602.2	1534.4	1475.8	1443.3	1430.2
2011.8	25°	1980.6	1968.2	1963.6	1879.0	1684.9	1544.2	1434.1	1363.2	1334.5	1327.3
2258.7	27.5°	2198.8	2167.5	2108.2	1906.3	1641.9	1453.0	1316.9	1251.1	1234.9	1235.5
2575.9	30°	2489.2	2426.7	2281.5	1910.9	1571.6	1324.1	1197.1	1150.2	1142.4	1145.6
2842.2	32.5°	2758.2	2699.0	2458.6	1890.1	1463.5	1197.7	1089.6	1058.4	1046.6	1050.5
3045.4	35°	2969.2	2953.0	2622.8	1860.7	1330.6	1079.2	993.2	966.5	943.7	938.5
3236.9	37.5°	3168.5	3162.0	2745.9	1819.7	1199.0	995.2	915.7	880.5	847.3	829.1
3448.6	40°	3387.4	3380.9	2826.6	1756.5	1082.4	922.2	846.0	799.8	758.8	725.5
3688.3	42.5°	3633.6	3595.1	2865.0	1666.0	983.5	860.4	789.4	726.8	672.8	642.2
3959.2	45°	3902.5	3815.9	2864.4	1550.7	900.1	803.7	728.8	640.2	590.1	561.4
4237.3	47.5°	4187.8	4026.9	2829.2	1423.1	819.3	741.2	635.0	567.3	534.1	516.5
4539.5	50°	4482.2	4224.3	2769.3	1276.5	736.6	670.2	576.4	530.2	504.8	488.5
4839.1	52.5°	4759.0	4403.4	2697.0	1110.5	652.6	601.1	550.3	514.5	487.8	469.6
5129.6	55°	5016.3	4557.8	2594.8	940.5	584.2	554.9	538.0	508.0	477.4	455.9
5424.6	57.5°	5244.9	4658.0	2418.3	780.9	535.4	523.0	524.9	496.9	461.8	443.5
5715.1	60°	5435.0	4731.6	2157.1	633.1	495.6	491.7	504.8	476.1	435.1	414.2
5960.6	62.5°	5549.0	4730.3	1836.6	518.4	461.8	463.1	478.0	450.0	408.4	388.8
6088.9	65°	5539.2	4614.4	1484.9	443.5	429.2	430.5	450.0	421.4	386.2	374.5
6024.5	67.5°	5343.2	4331.8	1139.1	394.7	393.4	399.2	422.0	401.8	372.5	371.2
5640.2	70°	4812.4	3744.9	820.6	355.6	356.3	364.7	394.7	389.5	365.4	368.0
4742.1	72.5°	3858.9	2855.3	551.0	314.6	315.2	328.9	368.6	379.7	358.2	392.7
3364.6	75°	2570.0	1780.6	354.3	270.9	271.6	289.2	345.8	360.8	338.7	391.4
1750.7	77.5°	1234.9	800.4	256.6	228.0	228.0	244.2	298.9	323.0	288.5	304.2
562.7	80°	426.6	300.9	201.9	183.7	179.8	190.8	252.1	280.1	248.8	229.3
183.7	82.5°	168.0	156.3	162.2	142.6	129.6	136.8	196.0	231.2	183.0	165.4
103.6	85°	96.4	101.6	114.6	94.4	74.9	84.0	143.9	166.1	138.1	121.8
33.9	87.5°	26.1	35.8	52.8	48.8	33.9	35.8	68.4	91.8	79.5	61.2
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>
1374.9
1410.1
1466.1
1533.8
1596.3
1618.5
1619.1
1590.5
1523.4
1428.3
1328.6
1237.5
1156.7
1055.7
942.4
829.7
728.8
644.1
560.1
512.6
482.6
461.8
447.4
431.8
405.1
383.0
373.8
373.2
367.3
397.9
394.7
278.8
214.9
164.8
124.4
63.2
0.0

F REPORT)