

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: P947851

Luminaire Tested: **GALN-SB3A-827-U-T3R**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947851  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB3A-827-U-T3R  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

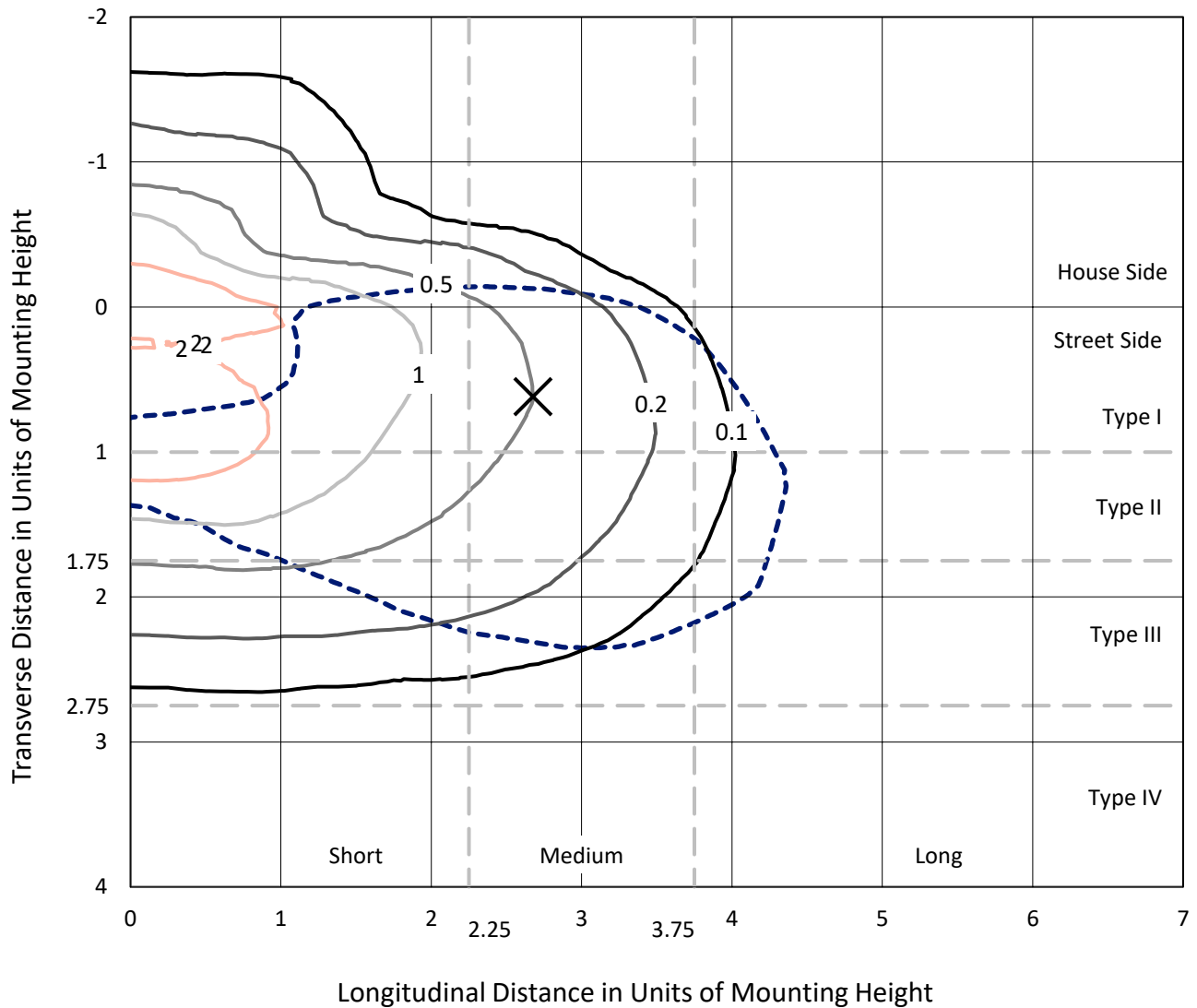
Lumens per Lamp: N/A  
Luminaire Lumens: 12015 lumens  
Efficiency: N/A  
Efficacy: 141.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P947851  
 CATALOG NUMBER: GALN-SB3A-827-U-T3R

### Iso-Footcandle Lines of Horizontal Illumination

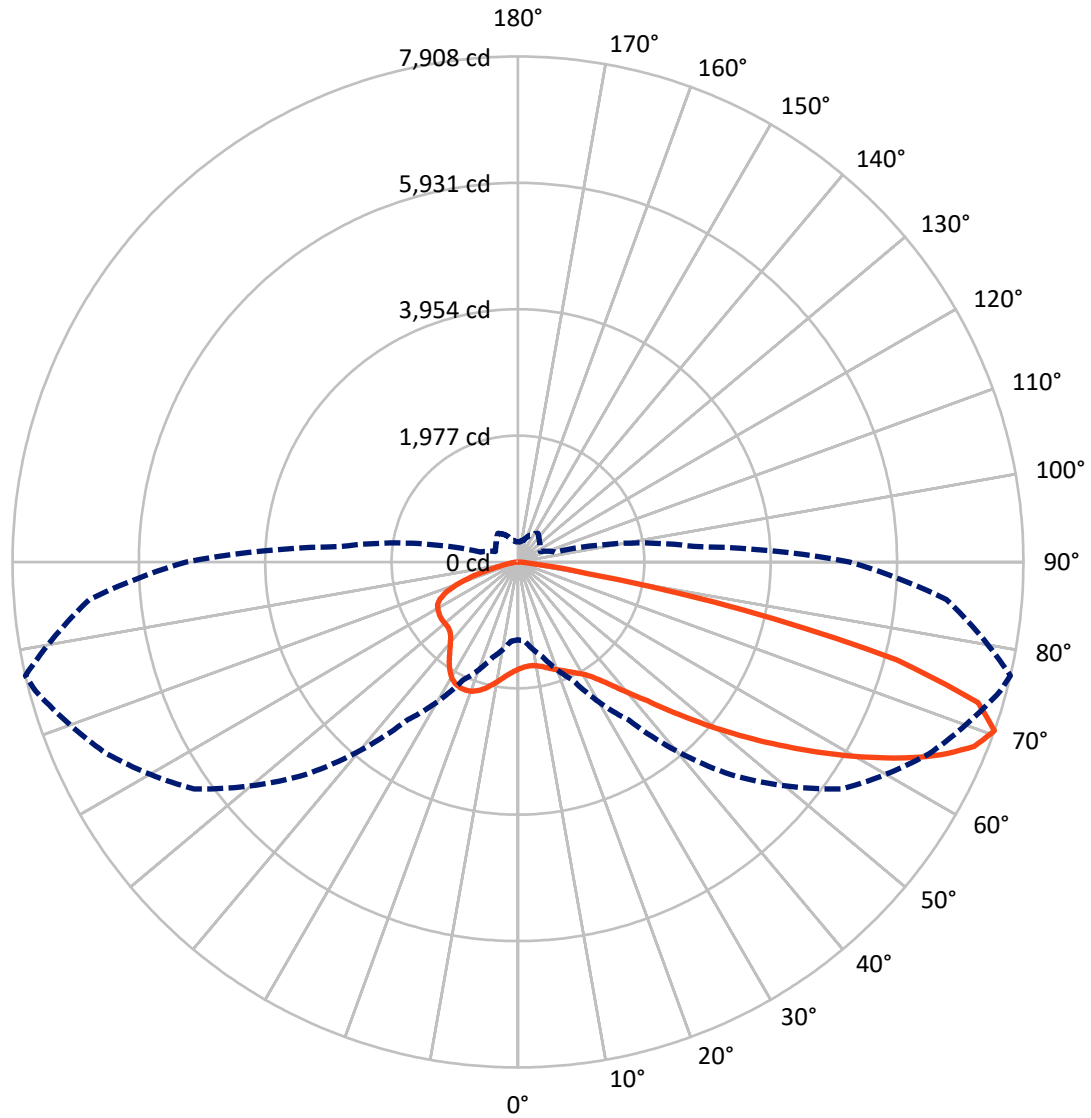
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type III - Medium - N/A

REPORT NUMBER: P947851  
CATALOG NUMBER: GALN-SB3A-827-U-T3R

### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P947851

CATALOG NUMBER: GALN-SB3A-827-U-T3R

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2631.1	0.0	2631.1
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	9383.9	0.0	9383.9
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	12015.0	0.0	12015.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.9	1.3
10°-20°	461.4	3.8
20°-30°	789.0	6.6
30°-40°	1268.8	10.6
40°-50°	1981.0	16.5
50°-60°	2646.1	22.0
60°-70°	2820.4	23.5
70°-80°	1736.2	14.5
80°-90°	152.1	1.3
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°	12015.0	100.0
0°-180°	12015.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P947851

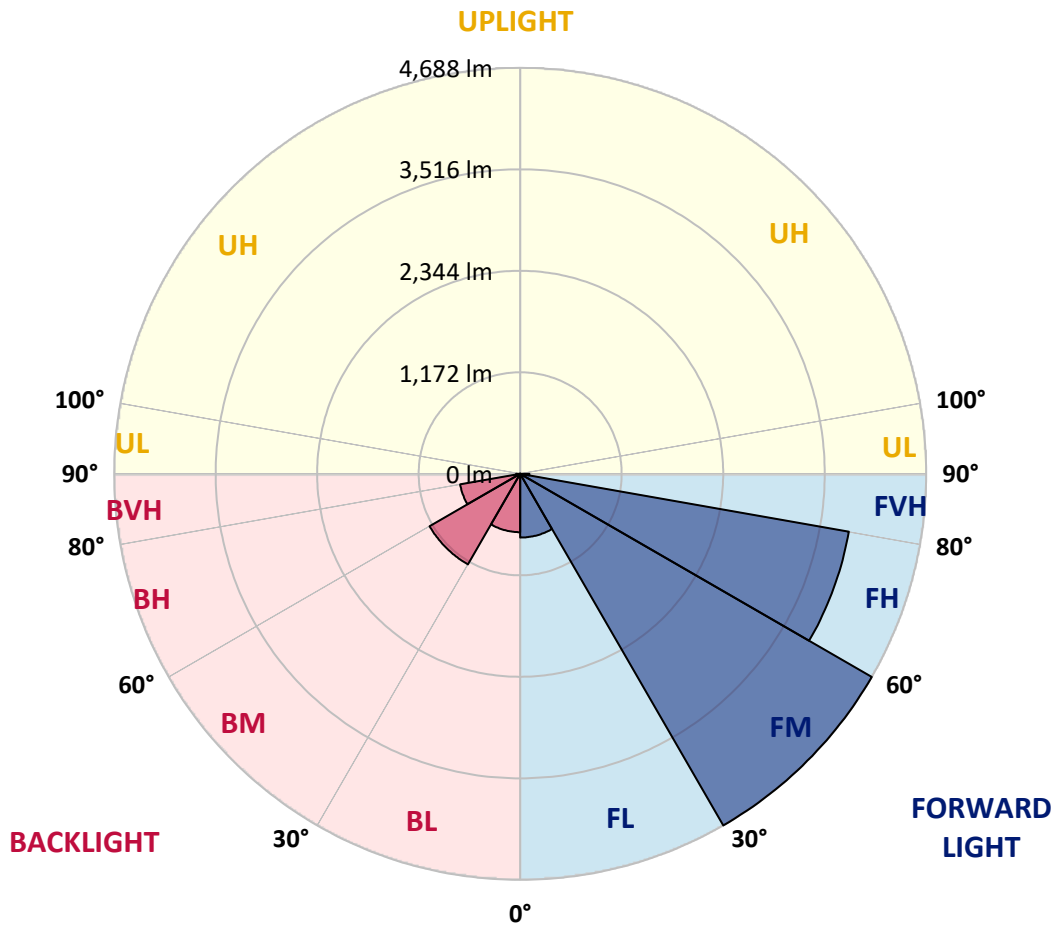
CATALOG NUMBER: GALN-SB3A-827-U-T3R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	736.1	6.1			
FM (30°-60°)	4688.0	39.0			
FH (60°-80°)	3853.4	32.1			G2/5000
FVH (80°-90°)	106.4	0.9			G2/225
BL (0°-30°)	674.2	5.6	B2/1000		
BM (30°-60°)	1208.0	10.1	B2/2500		
BH (60°-80°)	703.2	5.9	B2/1000		G2/1000
BVH (80°-90°)	45.8	0.4			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 Medium



REPORT NUMBER: P947851  
 CATALOG NUMBER: GALN-SB3A-827-U-T3R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1676.2	1676.2	1676.2	1676.2	1676.2	1676.2	1676.2	1676.2	1676.2	1676.2
2.5°	1545.1	1544.5	1552.5	1555.0	1569.7	1580.2	1599.9	1620.8	1647.9	1651.0
5°	1455.9	1455.9	1465.1	1475.0	1494.1	1515.0	1545.1	1581.4	1628.2	1635.6
7.5°	1380.2	1385.1	1393.1	1412.2	1434.4	1464.5	1510.7	1562.4	1623.9	1635.6
10°	1319.3	1324.8	1334.7	1350.1	1383.3	1425.1	1485.4	1551.9	1634.4	1652.8
12.5°	1300.2	1305.8	1311.3	1323.0	1353.8	1403.0	1475.0	1556.8	1659.6	1678.0
15°	1344.5	1351.3	1347.0	1343.9	1359.9	1404.8	1479.9	1574.7	1691.0	1717.4
17.5°	1446.7	1449.1	1439.3	1410.4	1407.9	1431.9	1503.3	1599.3	1730.4	1759.3
20°	1611.6	1607.3	1587.0	1529.7	1497.1	1492.2	1543.3	1636.2	1771.0	1801.7
22.5°	1835.6	1830.7	1790.0	1699.6	1627.0	1579.0	1601.1	1684.2	1816.5	1851.0
25°	2114.9	2108.2	2048.5	1925.4	1812.8	1694.0	1679.9	1747.6	1872.5	1904.5
27.5°	2441.1	2435.5	2370.9	2208.5	2046.0	1851.6	1777.7	1822.0	1931.0	1967.3
30°	2791.8	2807.8	2693.4	2518.6	2313.1	2057.1	1909.4	1913.7	2006.6	2039.3
32.5°	3204.1	3231.8	3094.0	2872.4	2591.8	2280.5	2075.6	2041.7	2116.8	2143.9
35°	3612.7	3644.1	3529.6	3284.7	2961.7	2543.8	2249.1	2188.8	2263.2	2292.8
37.5°	3965.9	4007.7	3948.7	3735.8	3357.3	2861.4	2475.5	2361.7	2443.5	2480.5
40°	4244.7	4308.7	4304.3	4171.4	3823.8	3246.6	2762.9	2575.2	2667.5	2707.5
42.5°	4471.1	4526.5	4574.5	4567.7	4310.5	3684.1	3100.7	2852.7	2922.9	2969.0
45°	4627.4	4686.5	4789.9	4901.2	4778.8	4152.4	3487.8	3182.0	3245.9	3315.5
47.5°	4767.1	4834.2	4968.3	5144.9	5176.3	4622.5	3911.8	3565.3	3623.8	3695.8
50°	4779.4	4837.2	5045.2	5295.7	5458.7	5074.1	4367.1	3995.4	4050.2	4127.1
52.5°	4482.2	4573.3	4936.3	5291.4	5588.6	5452.0	4819.4	4442.8	4504.3	4596.6
55°	3479.2	3612.7	4616.9	5126.4	5542.4	5696.3	5249.5	4918.5	4997.2	5093.8
57.5°	2996.7	3055.2	3665.0	4826.2	5332.0	5759.6	5612.6	5399.0	5525.8	5631.6
60°	2693.4	2742.0	3102.6	4359.1	5055.1	5659.3	5893.2	5847.0	6066.1	6192.2
62.5°	2368.5	2414.6	2742.6	3639.8	4700.6	5492.6	6070.4	6260.5	6619.9	6757.7
65°	2046.0	2085.4	2399.8	3058.3	4250.2	5325.8	6162.1	6618.0	7132.5	7275.2
67.5°	1686.7	1719.3	2016.5	2580.1	3702.5	5097.5	6207.6	6899.3	7578.6	7701.1
70°	1217.2	1242.4	1549.4	2040.5	3015.2	4704.9	6189.1	7098.6	7810.0	7907.8
72.5°	575.3	598.1	958.7	1324.8	2129.7	3940.7	5815.6	6940.5	7574.9	7526.3
75°	307.1	326.7	550.7	726.7	1124.9	2701.4	4759.1	5978.7	6360.8	6124.5
77.5°	208.0	223.4	340.9	436.3	513.8	1282.4	3058.9	4139.4	3982.5	3592.4
80°	164.9	180.9	279.4	295.4	248.6	463.4	1263.9	1916.2	1376.5	1100.9
82.5°	126.8	144.6	235.1	214.1	135.4	190.1	368.0	606.1	352.6	268.3
85°	77.5	96.6	184.6	136.6	76.3	86.8	124.9	168.6	107.7	89.8
87.5°	39.4	55.4	93.5	49.8	34.5	20.3	33.2	33.2	28.3	24.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947851  
 CATALOG NUMBER: GALN-SB3A-827-U-T3R

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1676.2	0°	1676.2	1676.2	1676.2	1676.2	1676.2	1676.2	1676.2	1676.2	1676.2	1676.2
1667.6	2.5°	1682.4	1694.7	1715.6	1735.3	1750.7	1765.4	1780.2	1788.2	1790.7	1800.5
1676.8	5°	1702.0	1724.8	1765.4	1803.6	1827.6	1842.3	1852.8	1859.0	1860.2	1863.3
1702.0	7.5°	1738.4	1774.7	1831.3	1869.4	1887.3	1886.0	1881.7	1866.3	1860.2	1854.7
1739.0	10°	1789.4	1837.4	1907.0	1933.4	1922.3	1892.8	1854.7	1809.7	1788.8	1768.5
1789.4	12.5°	1852.8	1913.7	1982.0	1980.8	1926.0	1850.3	1761.7	1692.8	1649.1	1617.7
1851.6	15°	1929.7	1999.9	2052.2	2010.3	1890.3	1754.4	1624.5	1534.7	1495.3	1460.8
1914.3	17.5°	2009.1	2084.2	2108.2	2001.1	1800.5	1612.2	1465.1	1394.4	1355.6	1337.1
1982.0	20°	2086.6	2161.1	2141.4	1948.2	1663.9	1451.0	1319.9	1281.2	1273.2	1277.5
2047.9	22.5°	2168.5	2234.9	2148.2	1846.0	1489.8	1286.1	1214.1	1215.3	1233.2	1246.1
2116.8	25°	2252.2	2297.1	2130.3	1698.4	1302.7	1164.8	1147.0	1166.7	1201.8	1227.0
2194.3	27.5°	2332.8	2352.5	2091.6	1515.6	1142.1	1078.1	1081.2	1121.8	1174.7	1209.8
2288.5	30°	2423.8	2401.7	2017.1	1310.1	1030.7	1003.6	1029.5	1076.9	1129.8	1161.2
2407.2	32.5°	2526.6	2444.2	1899.0	1119.9	951.9	943.9	986.4	1017.2	1040.5	1049.8
2564.8	35°	2654.6	2503.8	1747.6	986.4	881.2	900.3	940.9	925.5	916.2	911.3
2776.4	37.5°	2820.7	2584.5	1570.4	899.6	823.9	868.9	885.5	837.5	801.2	783.3
3033.0	40°	3020.7	2702.6	1399.9	832.6	787.6	841.8	812.9	755.0	708.9	683.6
3321.6	42.5°	3242.9	2826.3	1256.5	782.1	767.3	819.6	759.3	690.4	616.0	608.0
3665.6	45°	3476.1	2953.7	1158.7	743.3	757.5	800.6	728.6	617.2	564.3	596.9
4010.8	47.5°	3709.3	3070.6	1099.6	714.4	752.6	779.0	701.5	576.6	539.0	586.4
4380.6	50°	3969.0	3175.2	1073.2	693.5	747.0	770.4	660.9	566.1	512.6	544.0
4763.4	52.5°	4226.8	3256.4	1053.5	672.6	739.0	763.6	641.2	553.8	480.6	482.4
5148.6	55°	4484.0	3309.3	1031.9	644.9	721.2	748.9	639.3	540.3	456.6	448.0
5556.0	57.5°	4758.5	3339.5	1005.5	614.1	690.4	711.3	637.5	529.8	449.2	435.0
5972.5	60°	5037.8	3383.8	971.0	576.6	649.2	666.4	633.2	526.1	444.9	420.9
6365.1	62.5°	5288.3	3399.2	929.8	540.9	596.3	622.1	624.0	523.0	433.2	392.0
6691.3	65°	5452.6	3332.7	857.8	500.3	539.0	576.6	606.1	512.6	412.3	371.1
6852.5	67.5°	5445.8	3143.2	745.2	448.0	483.7	526.1	580.3	494.7	387.1	345.2
6730.7	70°	5192.3	2769.1	602.4	387.1	422.7	472.0	547.0	468.3	356.9	316.9
5984.9	72.5°	4453.3	2167.2	437.5	315.7	352.0	416.0	504.0	436.3	326.1	291.7
4423.1	75°	3181.3	1371.6	296.6	242.4	273.8	352.6	450.4	398.7	297.8	292.9
2215.2	77.5°	1625.1	655.3	196.3	177.2	190.8	278.1	378.4	356.3	302.1	241.8
630.1	80°	528.6	241.8	123.7	120.6	126.8	185.2	292.9	292.3	228.9	164.3
152.6	82.5°	168.6	104.0	80.6	77.5	74.5	116.3	204.3	231.4	154.5	104.0
54.8	85°	67.1	62.1	47.4	43.7	31.4	54.8	107.1	153.8	115.1	75.1
14.2	87.5°	24.6	24.6	12.9	9.2	6.8	18.5	28.9	46.2	65.8	38.8
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

180°
1676.2
1806.0
1868.2
1855.9
1762.4
1610.4
1457.1
1342.7
1275.6
1249.2
1233.8
1218.4
1168.5
1054.7
916.2
787.6
685.5
616.0
614.1
608.6
567.3
495.4
454.1
436.9
422.7
392.0
371.1
347.1
320.6
289.8
276.3
215.4
145.2
103.4
76.9
38.2
0.0

F REPORT)