

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: P939976

Luminaire Tested: **GALN-SB2D-827-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939976  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2D-827-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

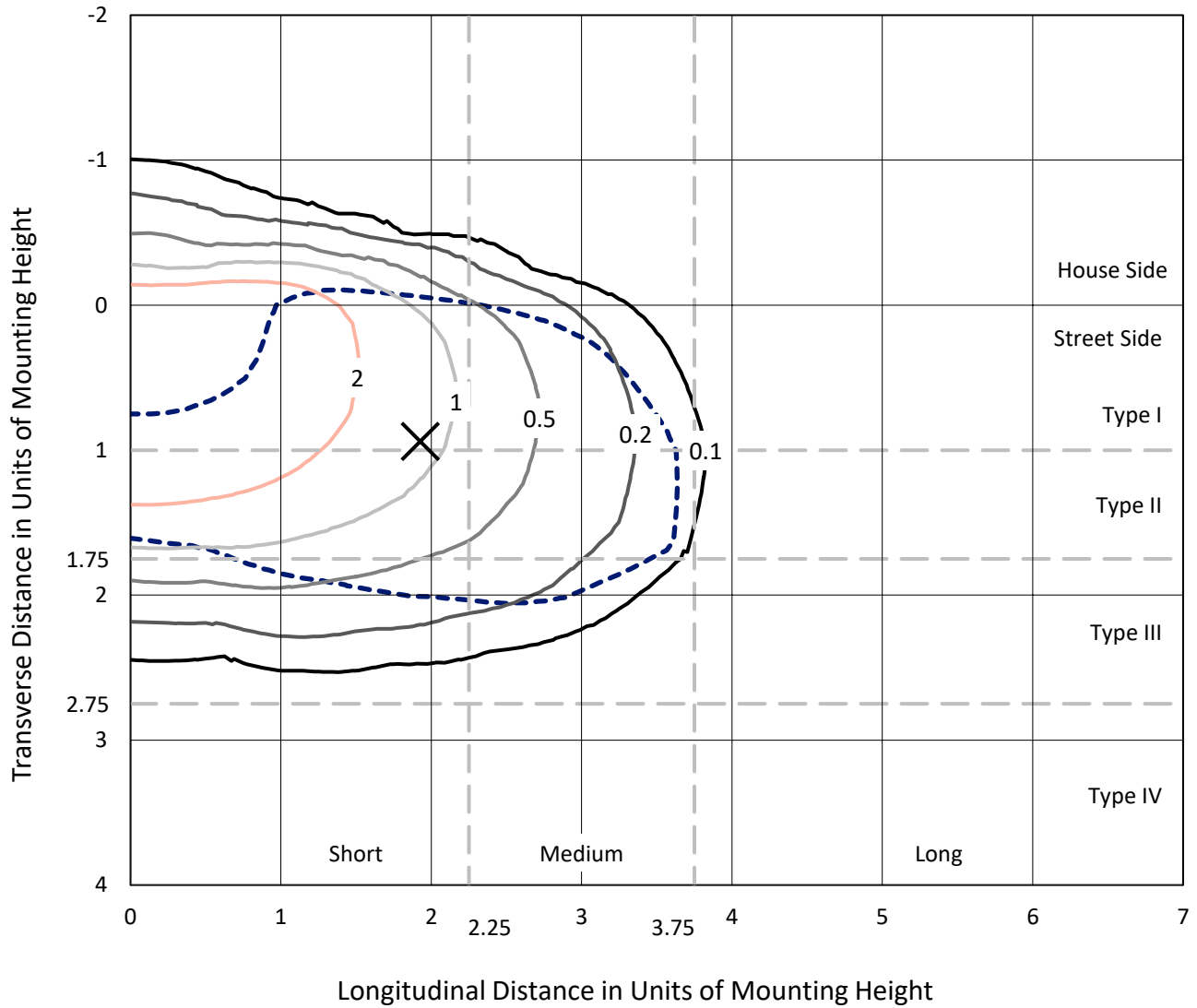
Lumens per Lamp: N/A  
Luminaire Lumens: 13878 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 147.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P939976  
 CATALOG NUMBER: GALN-SB2D-827-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

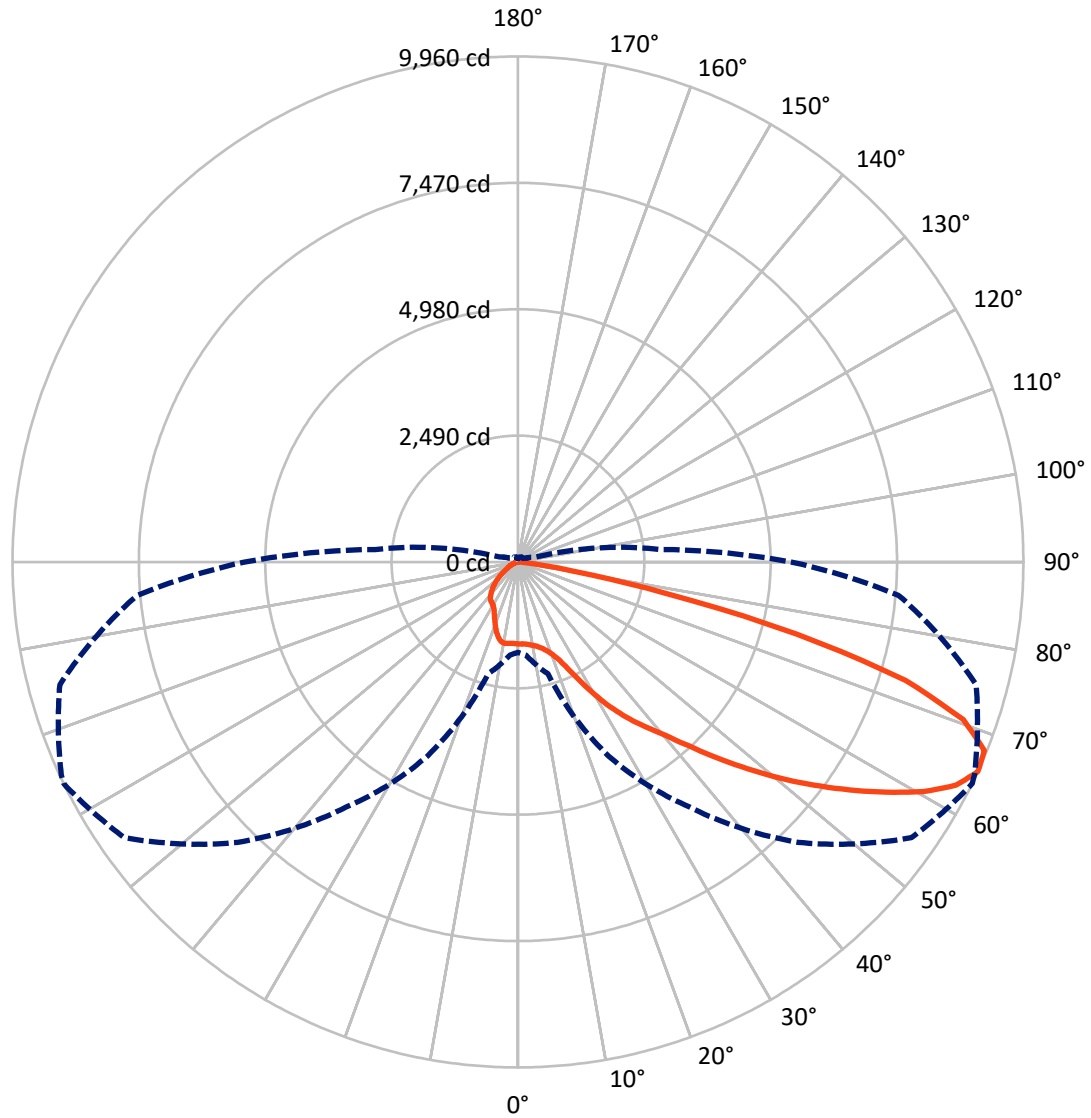
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type III - Short - N/A

REPORT NUMBER: P939976  
CATALOG NUMBER: GALN-SB2D-827-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P939976  
 CATALOG NUMBER: GALN-SB2D-827-U-T3-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1855.9	0.0	1855.9
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	12022.1	0.0	12022.1
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	13878.0	0.0	13878.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.9	1.1
10°-20°	403.9	2.9
20°-30°	765.4	5.5
30°-40°	1548.8	11.2
40°-50°	2638.4	19.0
50°-60°	3588.0	25.9
60°-70°	3369.3	24.3
70°-80°	1349.9	9.7
80°-90°	65.4	0.5
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°	13878.0	100.0
0°-180°	13878.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P939976

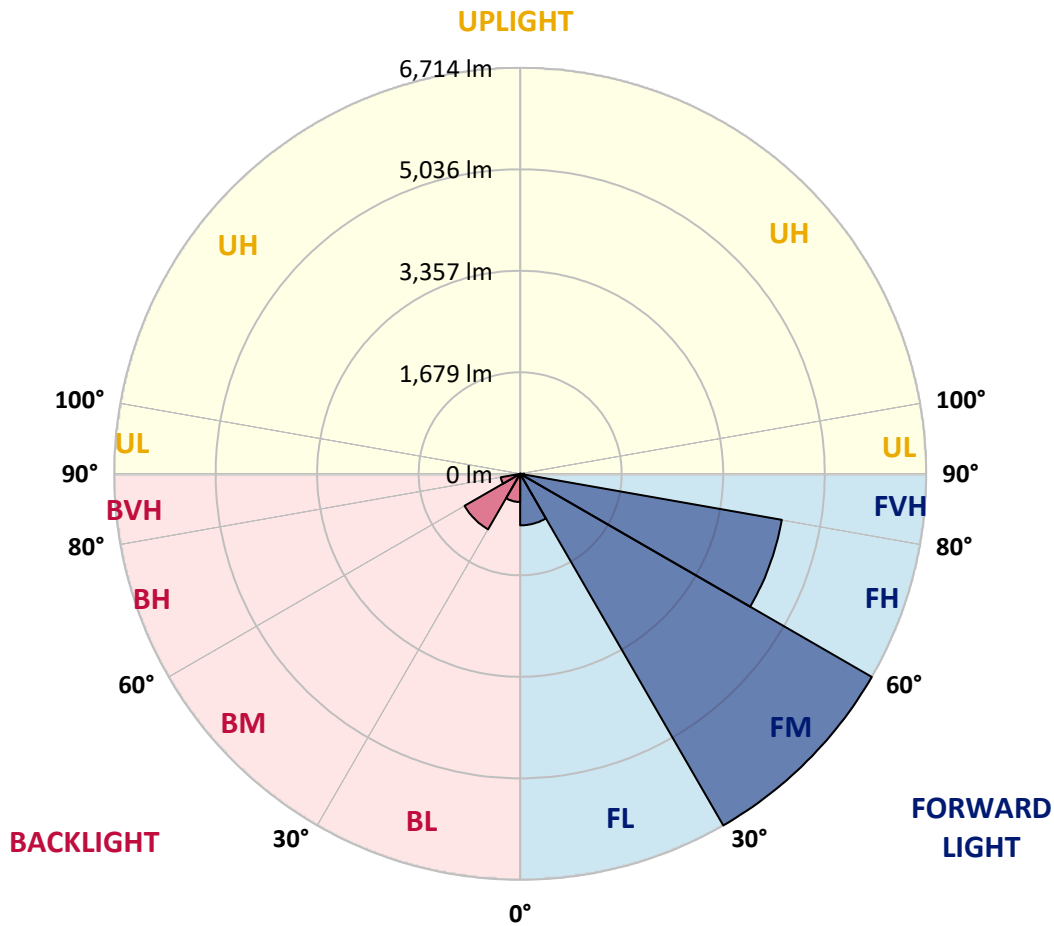
CATALOG NUMBER: GALN-SB2D-827-U-T3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	852.3	6.1			
FM (30°-60°)	6714.2	48.4			
FH (60°-80°)	4393.5	31.7			G2/5000
FVH (80°-90°)	62.2	0.4			G1/100
BL (0°-30°)	466.0	3.4	B1/500		
BM (30°-60°)	1061.0	7.6	B2/2500		
BH (60°-80°)	325.7	2.3	B1/500		G1/500
BVH (80°-90°)	3.2	0.0			G0/10
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: P939976

CATALOG NUMBER: GALN-SB2D-827-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2
2.5°	1608.6	1619.7	1616.9	1614.2	1613.2	1615.1	1616.0	1615.1	1615.1	1615.1
5°	1577.9	1587.2	1587.2	1593.7	1603.0	1614.2	1622.5	1624.4	1626.3	1629.0
7.5°	1519.3	1526.7	1532.3	1553.7	1576.9	1606.7	1631.8	1644.9	1646.7	1657.0
10°	1479.3	1488.6	1497.9	1520.2	1553.7	1598.3	1641.1	1672.8	1677.4	1701.6
12.5°	1477.4	1486.7	1498.8	1523.0	1562.1	1609.5	1661.6	1707.2	1715.6	1750.9
15°	1496.9	1508.1	1519.3	1549.0	1590.9	1648.6	1704.4	1761.2	1769.5	1819.8
17.5°	1536.9	1551.8	1560.2	1590.0	1634.6	1698.8	1772.3	1837.4	1844.9	1903.5
20°	1616.0	1633.7	1636.5	1660.7	1704.4	1773.2	1860.7	1941.6	1950.9	2017.9
22.5°	1779.8	1804.9	1782.5	1794.6	1833.7	1902.6	1997.5	2099.8	2112.8	2189.1
25°	2068.2	2103.5	2045.8	2025.4	2042.1	2113.8	2232.8	2362.2	2377.0	2438.4
27.5°	2634.7	2589.2	2501.7	2416.1	2365.9	2406.8	2540.8	2700.8	2719.4	2779.0
30°	3257.2	3217.1	3099.0	2909.2	2790.1	2783.6	2907.3	3086.0	3107.4	3164.1
32.5°	3880.5	3842.3	3714.0	3480.4	3273.9	3171.6	3257.2	3455.3	3466.5	3502.8
35°	4493.6	4454.5	4326.1	4087.0	3833.0	3600.5	3583.7	3807.0	3810.7	3848.9
37.5°	5110.4	5077.8	4941.1	4706.6	4456.4	4135.4	3980.0	4140.1	4144.7	4181.9
40°	5550.5	5564.4	5470.5	5289.0	5074.1	4723.4	4424.7	4494.5	4466.6	4528.9
42.5°	5928.2	5956.1	5874.2	5783.0	5658.4	5349.5	4975.5	4963.4	4918.8	4952.2
45°	6254.7	6278.0	6204.5	6183.1	6180.3	5963.5	5577.4	5504.9	5442.5	5436.0
47.5°	6374.8	6419.4	6451.0	6522.7	6662.2	6571.1	6199.8	6087.3	6017.5	5966.3
50°	6420.3	6467.8	6575.7	6784.1	7114.4	7153.5	6819.5	6692.9	6607.3	6514.3
52.5°	6358.9	6443.6	6588.7	6939.5	7418.6	7620.5	7414.0	7303.2	7205.6	7053.9
55°	5997.0	6081.7	6378.5	6937.6	7570.2	7948.0	7975.9	7926.6	7816.8	7577.7
57.5°	5234.1	5359.7	5829.6	6701.3	7567.5	8229.9	8526.6	8562.0	8439.2	8096.8
60°	4177.3	4347.5	4920.6	6177.5	7333.9	8382.4	9009.5	9186.3	9056.0	8608.5
62.5°	2914.8	3112.0	3654.4	5356.9	6799.9	8272.7	9362.1	9688.7	9590.0	9066.3
65°	1777.9	1841.2	2278.4	4215.4	5891.9	7813.1	9471.0	9960.3	9927.8	9346.3
67.5°	1184.3	1237.4	1363.0	2890.6	4573.6	6894.8	9210.5	9912.9	9922.2	9300.7
70°	713.6	759.2	841.0	1681.1	2964.1	5457.4	8403.8	9308.1	9362.1	8691.3
72.5°	294.0	324.7	399.1	762.0	1535.1	3463.7	6692.0	7991.7	8117.3	7307.9
75°	166.5	182.3	234.4	382.4	666.1	1614.2	4053.5	5673.3	5858.4	5036.9
77.5°	110.7	118.2	151.6	247.5	374.9	550.8	1732.3	2955.7	3309.3	2751.0
80°	74.4	80.9	104.2	165.6	243.8	236.3	551.7	1095.0	1347.1	945.2
82.5°	50.2	51.2	74.4	108.9	154.4	114.4	162.8	340.5	428.0	273.5
85°	28.8	27.9	54.9	63.3	68.8	47.4	49.3	102.3	134.0	115.4
87.5°	3.7	5.6	21.4	16.7	9.3	10.2	10.2	17.7	26.0	27.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P939976  
 CATALOG NUMBER: GALN-SB2D-827-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1614.2	0°	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2
1616.0	2.5°	1616.0	1615.1	1612.3	1609.5	1603.0	1599.3	1601.1	1599.3	1598.3	1599.3
1628.1	5°	1628.1	1625.3	1617.9	1608.6	1595.5	1579.7	1569.5	1554.6	1540.7	1532.3
1660.7	7.5°	1660.7	1657.9	1647.6	1621.6	1579.7	1513.7	1453.2	1400.2	1360.2	1336.9
1712.8	10°	1712.8	1708.1	1692.3	1634.6	1524.8	1380.6	1260.6	1161.1	1096.0	1065.2
1774.2	12.5°	1774.2	1768.6	1740.7	1622.5	1420.6	1195.5	1029.9	919.2	858.7	831.7
1844.9	15°	1846.7	1839.3	1784.4	1564.8	1269.0	990.8	839.2	756.4	717.3	693.1
1935.1	17.5°	1937.0	1924.0	1817.0	1478.3	1104.3	834.5	722.0	659.6	625.2	601.9
2053.3	20°	2054.2	2032.8	1843.0	1375.1	952.7	735.9	642.9	590.8	564.7	544.3
2220.7	22.5°	2218.0	2187.3	1874.7	1263.4	845.7	668.0	584.3	546.1	524.7	501.5
2454.3	25°	2420.8	2384.5	1913.7	1160.1	772.2	609.4	541.5	509.8	484.7	457.7
2760.3	27.5°	2704.5	2639.4	1960.2	1075.5	708.9	559.1	502.4	467.0	438.2	415.9
3107.4	30°	3020.8	2913.9	2001.2	1024.3	651.2	512.6	451.2	415.9	388.9	373.1
3419.0	32.5°	3320.4	3175.3	2028.2	1002.0	599.1	459.6	395.4	357.3	336.8	332.1
3724.2	35°	3603.2	3411.6	2025.4	980.6	552.6	406.6	340.5	301.4	285.6	288.4
4052.6	37.5°	3928.9	3663.7	2005.8	947.1	514.5	358.2	293.1	258.6	244.7	245.6
4451.7	40°	4307.5	3954.9	1993.7	883.8	472.6	313.5	254.0	226.1	215.8	212.1
4872.2	42.5°	4711.3	4236.8	1995.6	812.2	420.5	273.5	227.0	203.7	194.4	191.7
5340.2	45°	5116.9	4505.7	1998.4	737.8	365.6	242.8	207.5	187.9	182.3	178.6
5814.7	47.5°	5498.4	4734.5	1946.3	657.8	311.7	219.6	191.7	178.6	174.0	169.3
6291.0	50°	5853.8	4887.1	1820.7	564.7	268.9	201.0	179.6	170.3	165.6	161.0
6722.7	52.5°	6130.1	4911.3	1613.2	468.9	239.1	187.0	172.1	163.7	158.2	153.5
7071.6	55°	6252.9	4759.7	1318.3	379.6	215.8	174.9	164.7	156.3	149.8	145.1
7346.0	57.5°	6221.2	4440.6	1028.0	305.2	193.5	162.8	155.4	149.8	142.3	134.9
7568.4	60°	6065.9	4013.5	775.0	254.0	173.0	149.8	145.1	140.5	130.2	119.1
7654.0	62.5°	5797.0	3476.7	552.6	210.3	150.7	134.9	133.0	129.3	114.4	94.0
7527.5	65°	5385.8	2824.5	372.1	174.9	129.3	118.2	119.1	112.6	93.0	69.8
7064.1	67.5°	4784.8	2065.4	238.2	143.3	107.9	98.6	99.5	95.8	79.1	59.5
6185.9	70°	4019.1	1367.6	155.4	108.9	86.5	76.3	81.9	82.8	67.0	48.4
4747.6	72.5°	2946.4	807.5	108.9	80.9	63.3	53.0	67.0	68.8	54.0	36.3
2856.2	75°	1679.3	383.3	81.9	58.6	39.1	37.2	52.1	52.1	37.2	24.2
1236.4	77.5°	705.2	160.0	57.7	38.1	22.3	21.4	35.4	32.6	18.6	11.2
301.4	80°	203.7	71.6	30.7	18.6	9.3	8.4	14.0	10.2	4.7	1.9
114.4	82.5°	80.0	31.6	12.1	7.4	3.7	3.7	1.9	0.0	0.0	0.0
65.1	85°	47.4	13.0	5.6	2.8	0.9	0.0	0.0	0.0	0.0	0.0
14.0	87.5°	12.1	2.8	1.9	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>
1614.2
1603.0
1534.1
1337.8
1062.5
828.9
694.0
600.1
540.5
497.7
454.9
411.2
370.3
334.9
288.4
249.3
211.2
190.7
178.6
169.3
161.0
152.6
144.2
134.0
117.2
92.1
67.9
56.8
46.5
34.4
22.3
11.2
1.9
0.0
0.0
0.0
0.0

F REPORT)