

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: P956428

Luminaire Tested: **GALN-SB9A-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9A-830-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36491 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

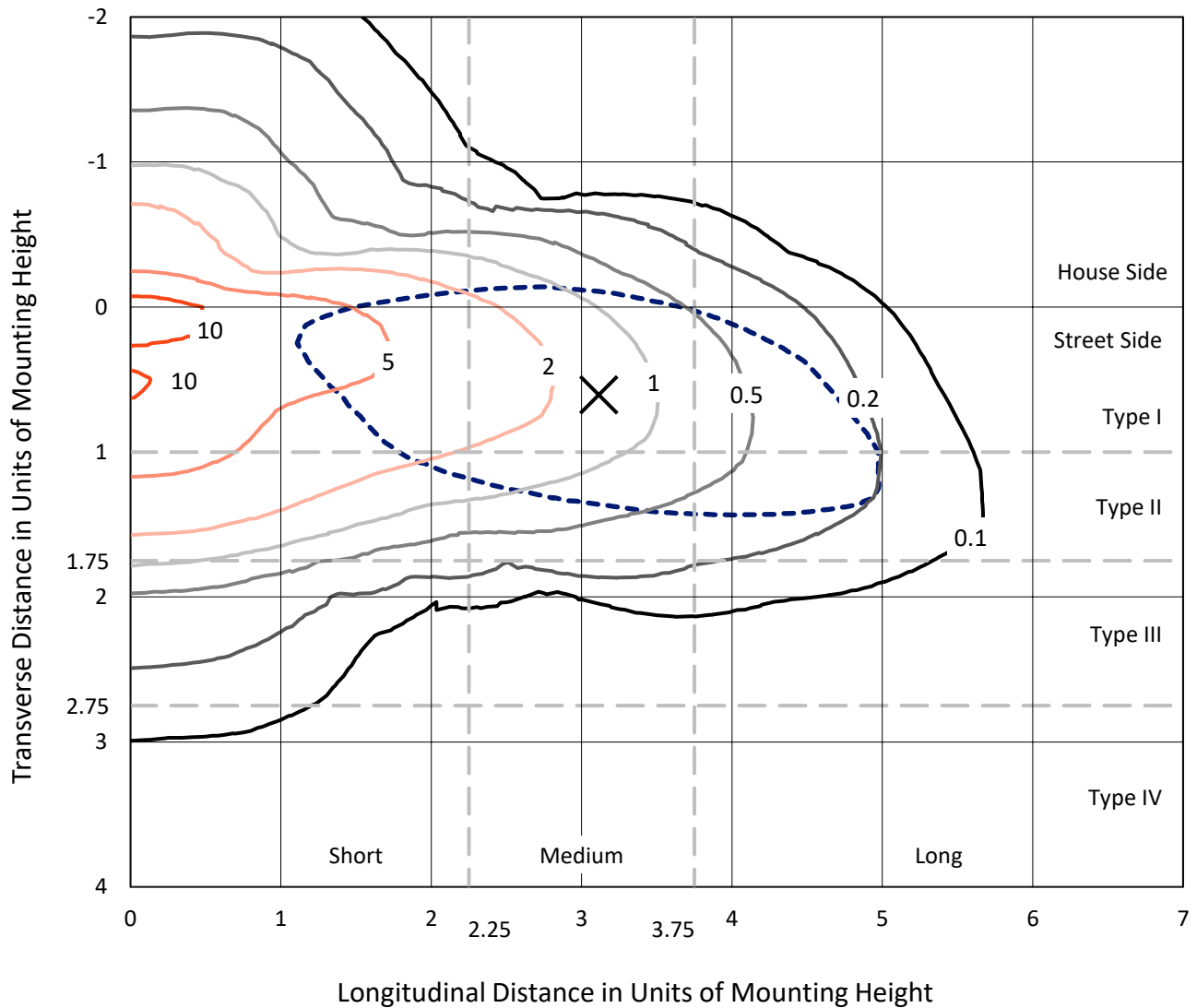
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P956428
 CATALOG NUMBER: GALN-SB9A-830-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

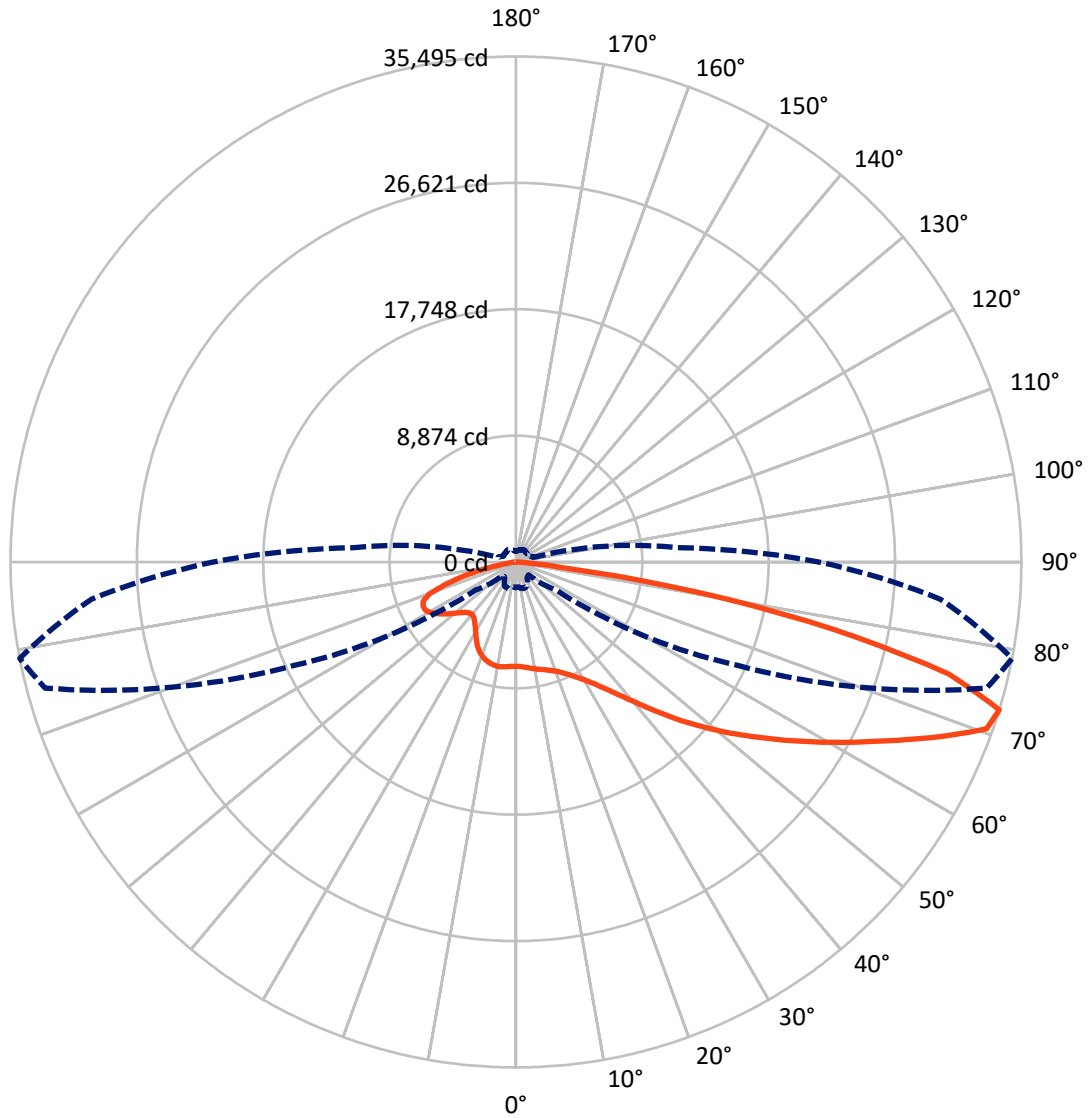
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P956428
CATALOG NUMBER: GALN-SB9A-830-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P956428

CATALOG NUMBER: GALN-SB9A-830-U-SL2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8030.0	0.0	8030.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	28461.0	0.0	28461.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	36491.0	0.0	36491.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	664.9	1.8
10°-20°	1738.4	4.8
20°-30°	2805.1	7.7
30°-40°	4210.1	11.5
40°-50°	5972.2	16.4
50°-60°	7542.1	20.7
60°-70°	7660.1	21.0
70°-80°	5220.7	14.3
80°-90°	677.3	1.9
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°	36491.0	100.0
0°-180°	36491.0	100.0

Coefficient of Utilization

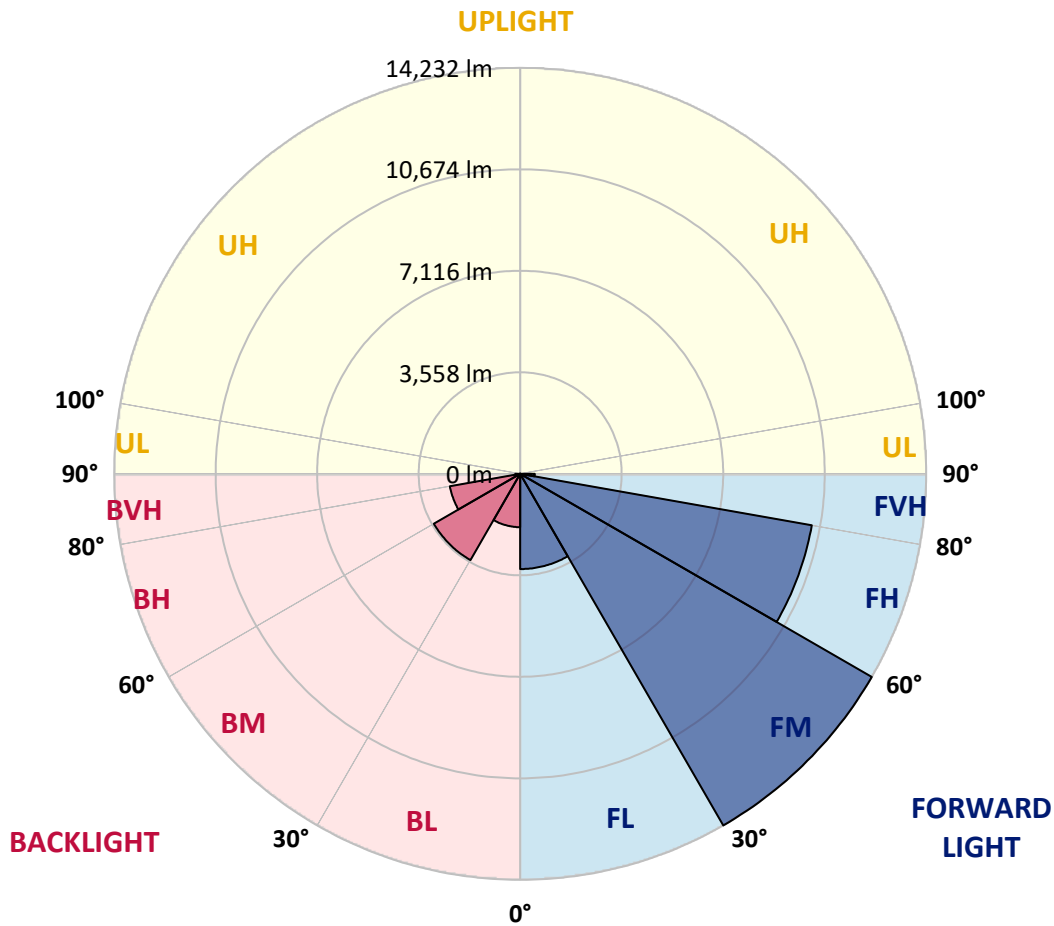


REPORT NUMBER: P956428
 CATALOG NUMBER: GALN-SB9A-830-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3338.0	9.1			
FM (30°-60°)	14232.2	39.0			
FH (60°-80°)	10380.5	28.4			G4/12000
FVH (80°-90°)	510.2	1.4			G4/750
BL (0°-30°)	1870.4	5.1	B3/2500		
BM (30°-60°)	3492.2	9.6	B3/5000		
BH (60°-80°)	2500.3	6.9	B4/5000		G4/5000
BVH (80°-90°)	167.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Medium



REPORT NUMBER: P956428
 CATALOG NUMBER: GALN-SB9A-830-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°
0°	7325.2	7325.2	7325.2	7325.2	7325.2	7325.2	7325.2	7325.2	7325.2	7325.2
2.5°	7329.1	7294.3	7315.6	7307.8	7317.5	7329.1	7332.9	7338.7	7358.0	7356.1
5°	7313.6	7278.9	7307.8	7298.2	7323.3	7350.3	7373.5	7394.7	7425.6	7439.1
7.5°	7280.8	7257.7	7286.6	7315.6	7361.9	7402.4	7435.2	7483.5	7527.9	7535.6
10°	7089.7	7072.4	7139.9	7215.2	7342.6	7452.6	7524.0	7580.0	7628.3	7636.0
12.5°	6890.9	6869.7	6945.0	7047.3	7253.8	7452.6	7603.2	7676.5	7719.0	7744.1
15°	6858.1	6840.7	6883.2	6972.0	7143.8	7400.5	7657.2	7792.3	7829.0	7858.0
17.5°	7016.4	6983.6	7000.9	7031.8	7132.2	7352.2	7699.7	7923.6	7979.6	8010.5
20°	7383.1	7336.8	7309.8	7248.0	7230.6	7360.0	7695.8	8081.9	8155.2	8193.8
22.5°	7871.5	7840.6	7782.7	7626.3	7456.5	7454.5	7769.2	8284.5	8421.6	8458.3
25°	8462.1	8415.8	8342.5	8130.1	7803.9	7641.8	7892.7	8543.2	8772.9	8782.5
27.5°	9141.6	9072.1	8971.7	8691.8	8251.7	7935.2	8081.9	8840.5	9176.3	9172.5
30°	9857.7	9788.2	9682.0	9342.3	8788.3	8330.9	8344.4	9160.9	9655.0	9633.8
32.5°	10380.8	10328.7	10307.4	10044.9	9406.0	8798.0	8645.5	9516.0	10245.7	10226.4
35°	10782.3	10714.7	10739.8	10606.6	10079.7	9321.1	9014.2	9938.8	10963.7	10961.8
37.5°	11179.9	11120.1	11141.3	11052.5	10703.1	9985.1	9463.9	10456.1	11853.5	11896.0
40°	11542.8	11479.1	11564.0	11481.0	11187.6	10691.5	9975.4	11040.9	12884.3	12965.4
42.5°	11760.9	11710.7	11851.6	11853.5	11608.4	11288.0	10537.1	11685.6	14077.2	14258.6
45°	11836.2	11818.8	12031.1	12075.5	11980.9	11633.5	11042.8	12388.2	15362.7	15687.0
47.5°	11755.1	11722.3	12015.7	12179.7	12255.0	11795.6	11461.7	13148.7	16675.3	17150.1
50°	11345.9	11282.2	11718.4	12063.9	12332.2	11901.8	11884.4	14027.0	18167.3	18686.6
52.5°	10610.5	10562.2	11058.3	11658.6	12162.4	11953.9	12359.3	14986.3	19584.1	20255.8
55°	9670.5	9606.8	10153.0	10936.7	11739.7	11936.5	12834.1	16059.5	21255.7	21937.1
57.5°	8180.3	8052.9	8743.9	9670.5	11050.6	11915.3	13328.2	17126.9	22954.3	23770.8
60°	6006.9	5817.7	6665.1	7763.4	9703.3	11708.8	13940.1	18323.7	24992.6	25728.0
62.5°	3497.6	3387.6	3941.5	4966.5	7313.6	10492.7	14283.7	19715.4	26996.2	27768.3
65°	2715.8	2684.9	2733.2	2812.3	4070.9	7856.0	13224.0	21072.3	29544.1	30084.6
67.5°	2484.2	2461.0	2482.3	2333.6	2065.3	4375.8	10461.8	21415.9	32273.4	32601.6
70°	2208.2	2181.2	2250.6	2123.3	1625.3	1990.1	6759.7	20169.0	34444.9	35060.7
72.5°	1799.0	1768.1	1930.2	1872.3	1368.5	1277.8	3395.3	17206.1	34217.2	35495.0
75°	1382.0	1364.7	1557.7	1606.0	1115.7	1005.6	1629.1	12789.7	30111.6	31399.0
77.5°	1073.2	1059.7	1158.1	1333.8	899.5	779.8	1001.8	8112.8	22691.8	22917.6
80°	804.9	766.3	857.0	1032.7	700.7	569.4	679.4	4731.0	14343.5	13002.0
82.5°	503.8	484.5	559.8	689.1	494.1	391.8	442.0	2613.5	5748.2	3385.6
85°	287.6	279.9	305.0	393.8	268.3	225.8	252.9	1154.3	1050.0	721.9
87.5°	115.8	112.0	139.0	175.7	98.4	83.0	88.8	278.0	231.6	214.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P956428
 CATALOG NUMBER: GALN-SB9A-830-U-SL2

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
7325.2	0°	7325.2	7325.2	7325.2	7325.2	7325.2	7325.2	7325.2	7325.2	7325.2	7325.2
7354.2	2.5°	7346.5	7346.5	7319.4	7277.0	7228.7	7197.8	7147.6	7134.1	7082.0	7066.6
7419.8	5°	7435.2	7419.8	7336.8	7217.1	7053.1	6902.5	6736.5	6632.3	6485.6	6433.5
7549.1	7.5°	7547.2	7504.7	7361.9	7099.4	6755.8	6418.0	6066.7	5800.3	5545.5	5454.8
7655.3	10°	7649.5	7589.7	7346.5	6887.1	6292.5	5707.7	5147.9	4756.1	4458.8	4337.2
7773.0	12.5°	7751.8	7641.8	7244.2	6533.8	5634.3	4841.0	4244.6	3939.6	3756.2	3609.5
7869.5	15°	7848.3	7693.9	7085.9	6060.9	4912.4	4107.5	3667.4	3424.2	3277.5	3181.0
8010.5	17.5°	7960.3	7738.3	6848.5	5460.6	4225.3	3599.9	3240.9	3094.2	3065.2	3053.6
8203.5	20°	8116.6	7778.8	6535.8	4788.9	3719.6	3194.5	3009.2	2995.7	2993.8	2988.0
8435.1	22.5°	8284.5	7827.1	6122.7	4178.9	3289.1	2941.7	2908.9	2881.8	2864.5	2862.5
8715.0	25°	8483.4	7842.5	5605.4	3679.0	2922.4	2822.0	2783.4	2742.9	2731.3	2731.3
9033.5	27.5°	8676.4	7790.4	5003.2	3244.7	2715.8	2712.0	2661.8	2648.3	2646.3	2652.1
9396.4	30°	8869.4	7692.0	4404.8	2843.2	2596.2	2596.2	2578.8	2588.4	2596.2	2615.5
9894.4	32.5°	9130.0	7587.7	3904.9	2546.0	2491.9	2472.6	2490.0	2509.3	2517.0	2542.1
10548.7	35°	9512.2	7514.4	3507.2	2383.8	2383.8	2358.7	2368.4	2364.5	2347.2	2335.6
11340.1	37.5°	10017.9	7510.5	3179.1	2308.6	2293.1	2289.3	2291.2	2266.1	2198.5	2117.5
12297.5	40°	10625.9	7614.8	2926.2	2256.4	2244.9	2268.0	2256.4	2188.9	2003.6	1862.7
13474.9	42.5°	11442.4	7912.0	2764.1	2192.7	2227.5	2256.4	2210.1	1976.6	1851.1	1756.5
14816.4	45°	12403.7	8394.6	2681.1	2125.2	2194.7	2229.4	2005.5	1903.2	1802.8	1689.0
16279.6	47.5°	13492.3	9002.6	2661.8	2061.5	2121.3	2142.6	1918.6	1872.3	1758.4	1634.9
17750.4	50°	14677.5	9722.6	2713.9	1986.2	2015.2	1941.8	1889.7	1847.2	1729.5	1607.9
19257.9	52.5°	15903.2	10515.9	2818.1	1883.9	1909.0	1827.9	1878.1	1841.4	1712.1	1548.0
20815.6	55°	17107.6	11315.0	2918.5	1764.2	1800.9	1725.6	1845.3	1818.3	1633.0	1447.7
22477.5	57.5°	18331.4	12110.3	3016.9	1658.1	1696.7	1627.2	1793.2	1756.5	1544.2	1355.0
24291.9	60°	19603.4	12882.4	3063.3	1555.8	1582.8	1536.5	1714.0	1650.3	1443.8	1260.4
26075.5	62.5°	20794.4	13525.1	2988.0	1453.5	1470.8	1451.5	1609.8	1524.9	1343.4	1154.3
27934.3	65°	21989.2	13907.3	2756.4	1353.1	1357.0	1347.3	1463.1	1389.8	1225.7	1061.6
29561.5	67.5°	23072.0	14121.6	2387.7	1245.0	1235.3	1231.5	1326.1	1243.1	1111.8	969.0
30798.7	70°	23301.7	13577.2	1824.1	1117.6	1117.6	1108.0	1175.5	1090.6	986.3	870.5
29912.8	72.5°	21282.7	11421.2	1295.2	972.8	988.3	969.0	1025.0	953.5	859.0	781.7
25780.1	75°	17161.7	8375.3	942.0	824.2	851.2	818.4	870.5	820.3	739.3	737.3
17765.8	77.5°	11791.8	5178.8	683.3	679.4	698.7	656.3	716.1	689.1	615.7	582.9
7732.5	80°	5032.1	2065.3	498.0	525.0	525.0	486.4	555.9	563.6	499.9	484.5
1492.1	82.5°	1001.8	586.8	349.4	361.0	339.7	328.1	393.8	436.2	602.2	669.8
449.7	85°	301.1	216.2	210.4	196.9	173.7	175.7	231.6	438.2	540.5	308.8
148.6	87.5°	83.0	54.0	56.0	44.4	36.7	48.3	79.1	332.0	181.4	77.2
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>
7325.2
7091.7
6472.1
5466.4
4364.2
3657.8
3198.4
3061.3
3007.3
2883.8
2742.9
2667.6
2629.0
2563.3
2362.6
2119.4
1858.8
1752.6
1681.2
1625.3
1594.4
1536.5
1438.0
1351.2
1254.6
1152.3
1050.0
957.4
866.7
758.6
664.0
546.3
484.5
671.7
266.4
65.6
0.0

F REPORT)