

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: P955707

Luminaire Tested: **GALN-SB8C-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-827-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52556 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

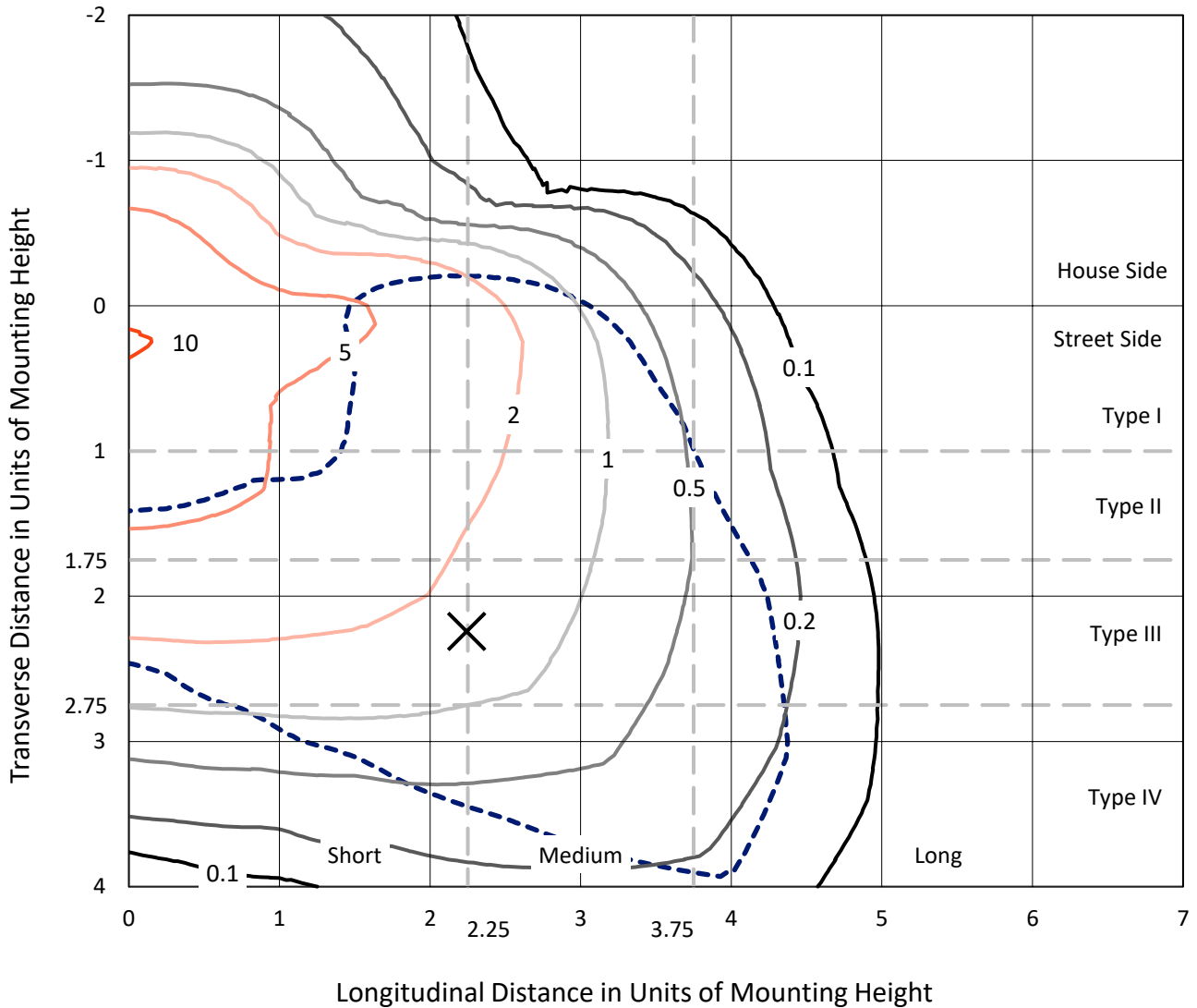
Input Watts (W): 399.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955707
 CATALOG NUMBER: GALN-SB8C-827-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

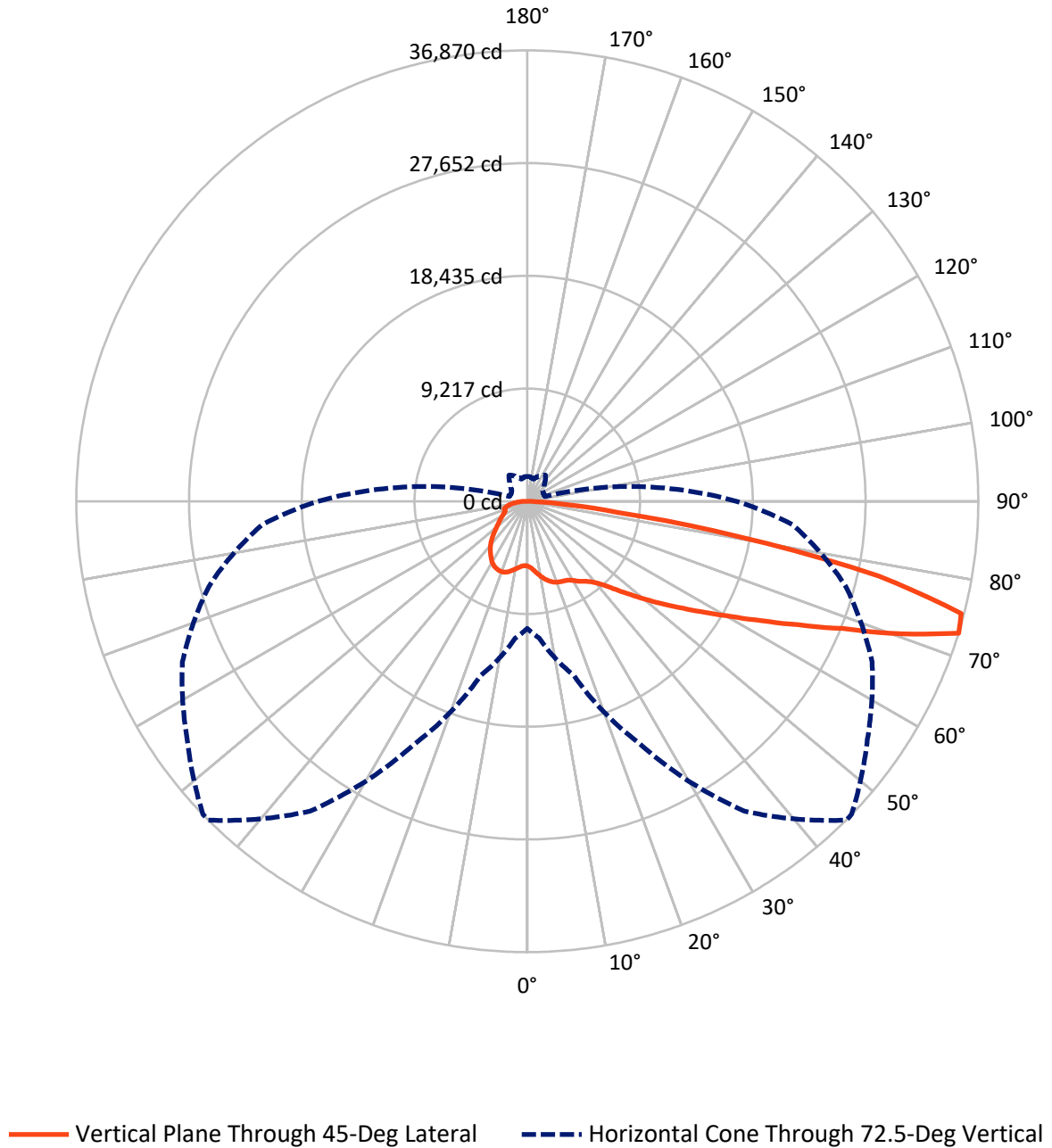
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P955707
CATALOG NUMBER: GALN-SB8C-827-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P955707
 CATALOG NUMBER: GALN-SB8C-827-U-T4W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11881.1	0.0	11881.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	40674.9	0.0	40674.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	52556.0	0.0	52556.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.6	1.0
10°-20°	1799.2	3.4
20°-30°	3129.8	6.0
30°-40°	4486.7	8.5
40°-50°	6317.6	12.0
50°-60°	9676.6	18.4
60°-70°	14018.0	26.7
70°-80°	11194.3	21.3
80°-90°	1394.2	2.7
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°	52556.0	100.0
0°-180°	52556.0	100.0

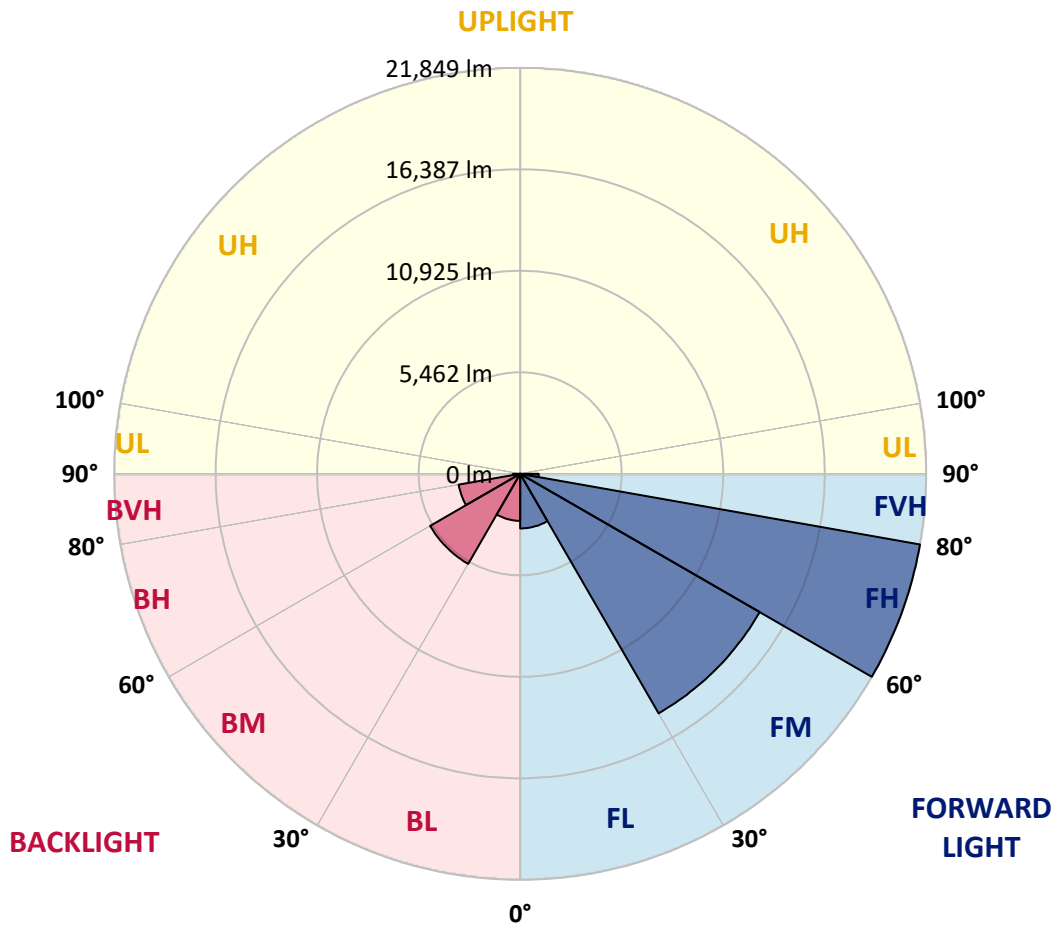


REPORT NUMBER: P955707
 CATALOG NUMBER: GALN-SB8C-827-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2939.0	5.6			
FM (30°-60°)	14886.6	28.3			
FH (60°-80°)	21849.1	41.6			G5
FVH (80°-90°)	1000.2	1.9			G5
BL (0°-30°)	2529.6	4.8	B4/5000		
BM (30°-60°)	5594.3	10.6	B4/8500		
BH (60°-80°)	3363.2	6.4	B4/5000		G4/5000
BVH (80°-90°)	394.0	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Short



REPORT NUMBER: P955707
 CATALOG NUMBER: GALN-SB8C-827-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	5301.9	5301.9	5301.9	5301.9	5301.9	5301.9	5301.9	5301.9	5301.9	5301.9
2.5°	5509.5	5545.5	5512.3	5481.8	5468.0	5432.0	5429.2	5407.1	5393.2	5354.5
5°	5894.4	5941.4	5886.1	5825.1	5769.8	5681.2	5670.1	5606.4	5534.4	5451.4
7.5°	6329.0	6370.6	6306.9	6215.5	6118.6	5971.9	5969.1	5852.8	5739.3	5598.1
10°	6708.3	6763.7	6677.9	6553.3	6431.5	6265.4	6246.0	6113.1	5969.1	5786.4
12.5°	7043.3	7082.1	6999.0	6846.8	6705.6	6539.4	6514.5	6367.8	6207.2	5999.6
15°	7309.1	7359.0	7248.2	7084.9	6935.4	6772.0	6749.9	6617.0	6456.4	6237.7
17.5°	7483.5	7525.1	7411.6	7228.8	7084.9	6949.2	6932.6	6821.8	6680.6	6459.2
20°	7550.0	7594.3	7475.2	7289.7	7156.8	7051.6	7043.3	6963.0	6866.1	6664.0
22.5°	7616.4	7658.0	7502.9	7309.1	7192.8	7126.4	7123.6	7071.0	7032.3	6866.1
25°	7885.0	7896.1	7688.4	7408.8	7242.7	7184.5	7181.8	7179.0	7195.6	7065.5
27.5°	8117.5	8114.8	7937.6	7674.6	7417.1	7295.3	7292.5	7320.2	7372.8	7264.8
30°	8458.1	8427.6	8217.2	7943.1	7707.8	7519.5	7502.9	7478.0	7519.5	7433.7
32.5°	9180.7	9083.8	8743.3	8256.0	7948.7	7804.7	7782.5	7627.5	7644.1	7591.5
35°	10216.2	10088.8	9634.7	8848.5	8247.7	8042.8	8031.7	7835.2	7801.9	7754.9
37.5°	11448.2	11290.4	10761.6	9706.7	8762.6	8319.7	8303.0	8125.9	7990.2	7940.4
40°	12685.7	12486.4	12049.0	10753.3	9521.2	8782.0	8729.4	8460.9	8305.8	8222.8
42.5°	13887.3	13721.2	13347.4	11927.1	10457.0	9457.6	9341.3	8881.7	8765.4	8687.9
45°	14950.5	14801.0	14526.9	13181.3	11553.4	10376.7	10263.2	9512.9	9476.9	9476.9
47.5°	15814.3	15781.0	15490.3	14460.4	12846.3	11423.3	11226.7	10390.6	10487.5	10637.0
50°	16772.2	16680.8	16370.8	15720.1	14366.3	12622.1	12461.5	11467.6	11830.2	12240.0
52.5°	17652.6	17702.5	17356.4	17032.5	16082.8	13959.3	13676.9	12738.3	13521.9	14200.2
55°	18558.0	18560.7	18463.8	18419.5	17882.4	15437.7	15127.7	14266.6	15512.5	16354.1
57.5°	19407.9	19413.5	19557.4	19947.8	19969.9	17143.2	16791.6	16143.7	17724.6	18582.9
60°	20166.5	20205.3	20598.4	21512.1	21805.5	19097.8	18765.6	18361.4	20011.5	20875.3
62.5°	20421.2	20562.4	21437.3	22735.8	23619.0	21495.4	21168.7	20927.9	22414.6	23217.5
65°	19989.3	20313.3	22004.9	23746.3	25485.0	24344.3	24020.4	23757.4	24911.9	25667.7
67.5°	18928.9	19347.0	21971.6	24806.7	27749.7	27771.9	27470.1	26852.7	27589.1	27879.8
70°	16135.4	16761.1	20036.4	25202.6	30349.4	32459.1	32168.4	30579.2	30260.8	28854.4
72.5°	10396.1	11237.8	14753.9	21944.0	30928.1	36869.5	36852.9	33943.1	31105.3	26960.7
75°	3793.0	4307.9	6855.1	13773.8	25961.2	36645.2	36753.2	33367.2	28394.8	20825.4
77.5°	1381.5	1511.7	2237.0	5293.6	15966.5	29402.6	29626.8	26675.5	20210.8	10451.5
80°	725.4	797.4	1146.2	2054.3	6841.2	17461.6	17813.2	15853.0	9499.1	3147.9
82.5°	401.4	434.7	642.3	1115.7	3081.5	7466.9	7677.3	6262.6	3341.7	1334.5
85°	216.0	229.8	301.8	609.1	1506.1	2588.6	2646.8	1871.6	1331.7	783.5
87.5°	63.7	77.5	99.7	193.8	589.7	581.4	595.2	371.0	526.0	395.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P955707
 CATALOG NUMBER: GALN-SB8C-827-U-T4W

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5301.9	0°	5301.9	5301.9	5301.9	5301.9	5301.9	5301.9	5301.9	5301.9	5301.9	5301.9
5343.4	2.5°	5326.8	5318.5	5288.0	5274.2	5257.6	5254.8	5268.7	5271.4	5274.2	5277.0
5404.3	5°	5376.6	5348.9	5321.3	5304.6	5310.2	5313.0	5340.6	5360.0	5373.9	5384.9
5517.8	7.5°	5473.5	5451.4	5404.3	5401.5	5409.9	5434.8	5470.8	5515.1	5540.0	5559.4
5664.6	10°	5617.5	5576.0	5520.6	5528.9	5545.5	5581.5	5656.3	5692.3	5733.8	5769.8
5844.5	12.5°	5764.2	5728.2	5664.6	5670.1	5697.8	5761.5	5833.4	5877.7	5905.4	5933.1
6038.3	15°	5955.3	5891.6	5822.4	5822.4	5872.2	5941.4	5974.6	6010.6	6027.3	6057.7
6246.0	17.5°	6151.8	6068.8	5977.4	5971.9	6032.8	6066.0	6085.4	6090.9	6096.5	6129.7
6448.1	20°	6348.4	6257.0	6126.9	6115.8	6129.7	6124.2	6121.4	6115.8	6124.2	6165.7
6655.7	22.5°	6542.2	6437.0	6257.0	6207.2	6168.5	6115.8	6113.1	6110.3	6115.8	6157.4
6880.0	25°	6769.2	6641.9	6401.0	6251.5	6121.4	6049.4	6057.7	6060.5	6066.0	6099.2
7112.5	27.5°	7015.6	6874.4	6533.9	6237.7	6002.3	5952.5	5938.7	5947.0	5966.3	6018.9
7345.1	30°	7262.0	7095.9	6655.7	6182.3	5852.8	5783.6	5739.3	5758.7	5819.6	5872.2
7547.2	32.5°	7486.3	7320.2	6752.6	6060.5	5661.8	5553.8	5495.7	5520.6	5581.5	5600.9
7771.5	35°	7749.3	7561.1	6794.2	5866.7	5454.2	5288.0	5210.5	5174.5	5205.0	5185.6
8034.5	37.5°	8042.8	7846.2	6788.6	5612.0	5210.5	5019.5	4911.5	4775.8	4712.2	4645.7
8422.1	40°	8477.5	8195.1	6722.2	5304.6	4908.7	4734.3	4540.5	4310.7	4166.7	4036.6
9047.8	42.5°	9069.9	8679.6	6600.4	4966.9	4568.2	4404.8	4141.8	3873.3	3646.3	3430.3
9997.4	45°	9953.1	9313.6	6448.1	4607.0	4200.0	4039.4	3754.2	3452.4	3195.0	2918.1
11345.7	47.5°	11226.7	10166.3	6304.1	4197.2	3812.4	3665.6	3408.2	3128.5	2824.0	2555.4
13294.8	50°	12976.4	11390.0	6171.2	3798.5	3430.3	3319.6	3114.7	2829.5	2522.2	2306.2
15578.9	52.5°	15202.4	13054.0	6115.8	3413.7	3073.2	3031.6	2868.3	2602.5	2311.8	2129.1
18242.3	55°	17757.8	15044.6	6115.8	3045.5	2760.3	2774.1	2660.6	2414.2	2162.3	1998.9
20988.8	57.5°	20365.9	17060.1	6005.1	2704.9	2494.5	2552.7	2480.7	2264.7	2037.7	1868.8
23876.4	60°	22769.0	18749.0	5556.6	2394.8	2259.2	2350.5	2303.5	2118.0	1841.1	1699.9
26290.7	62.5°	24615.7	19701.4	4692.8	2148.4	2065.4	2170.6	2145.7	1924.2	1805.1	1747.0
28273.0	65°	25540.4	19546.3	3588.1	1929.7	1902.0	2065.4	2012.8	2004.5	1910.3	1843.9
28918.1	67.5°	24972.8	18211.9	2602.5	1769.1	1807.9	1968.5	2170.6	2203.8	2029.4	1899.3
27101.9	70°	22483.8	15797.7	1938.0	1616.9	1688.8	1971.2	2475.1	2306.2	1990.6	1838.4
21736.3	72.5°	17104.4	11780.4	1503.4	1456.3	1533.8	1985.1	2610.8	2259.2	1879.9	2032.2
13541.2	75°	9781.5	6467.5	1207.1	1259.7	1340.0	1855.0	2541.6	2137.4	1794.1	1866.0
5365.6	77.5°	3729.3	2486.2	996.7	1065.9	1077.0	1619.6	2430.8	2129.1	1708.2	1666.7
1608.6	80°	1292.9	971.8	825.0	847.2	833.3	1439.7	2331.2	1852.2	1398.1	1251.4
664.5	82.5°	528.8	484.5	653.4	625.7	592.5	1118.5	1882.7	1514.4	1143.4	1010.5
321.2	85°	229.8	307.3	431.9	379.3	343.3	775.2	1508.9	1281.9	966.2	833.3
105.2	87.5°	47.1	116.3	182.7	171.7	177.2	517.7	1071.4	910.9	683.8	512.2
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>
5301.9
5288.0
5390.5
5564.9
5761.5
5944.2
6068.8
6140.8
6182.3
6185.1
6143.5
6071.5
5930.4
5670.1
5246.5
4687.2
4044.9
3410.9
2884.9
2525.0
2292.4
2115.2
1982.3
1841.1
1677.8
1727.6
1821.7
1877.1
1813.4
2015.5
1866.0
1520.0
1209.9
999.5
830.6
401.4
0.0

F REPORT)