

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: P947133

Luminaire Tested: **GALN-SB2C-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-827-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13265 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

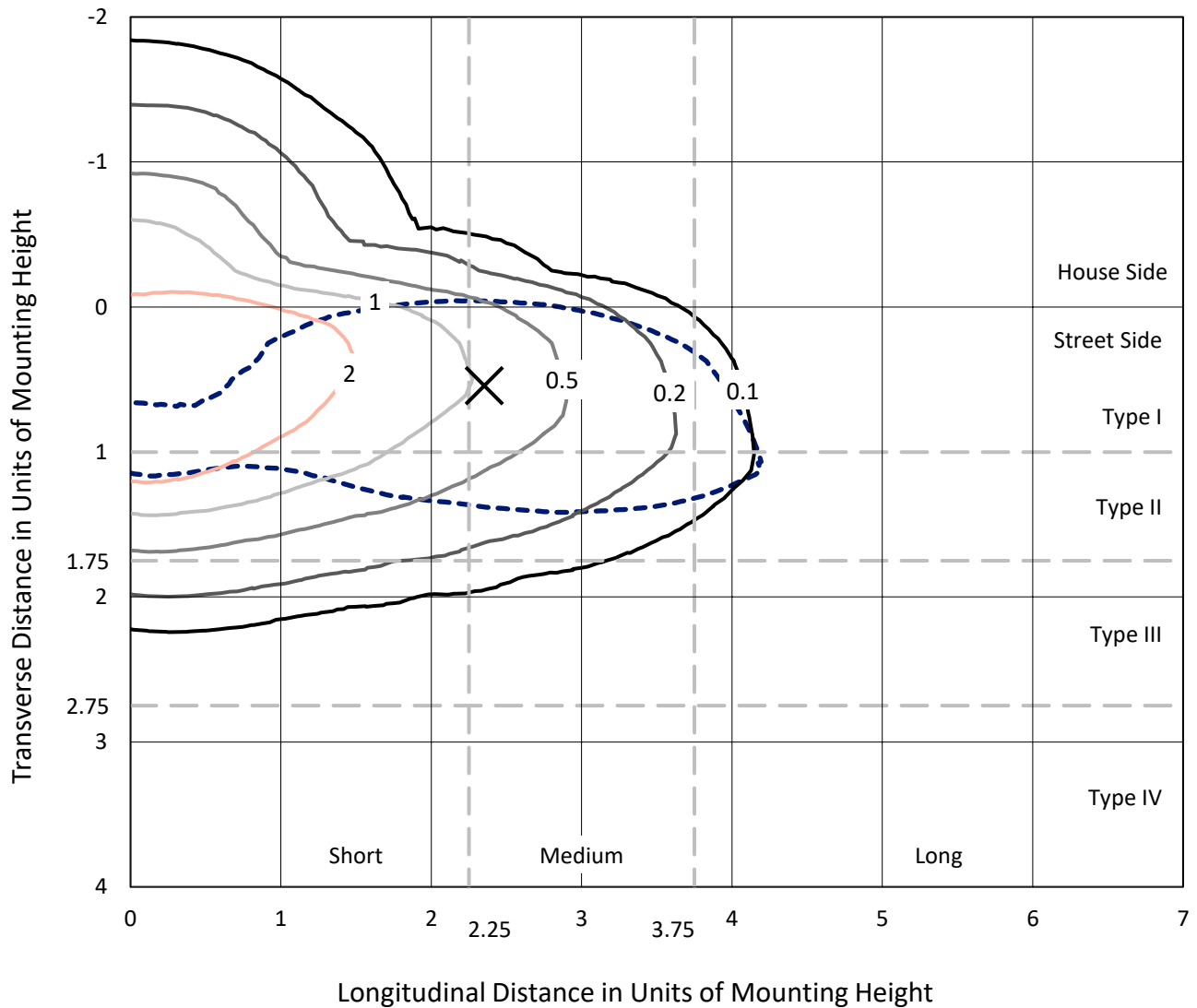
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947133
 CATALOG NUMBER: GALN-SB2C-827-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

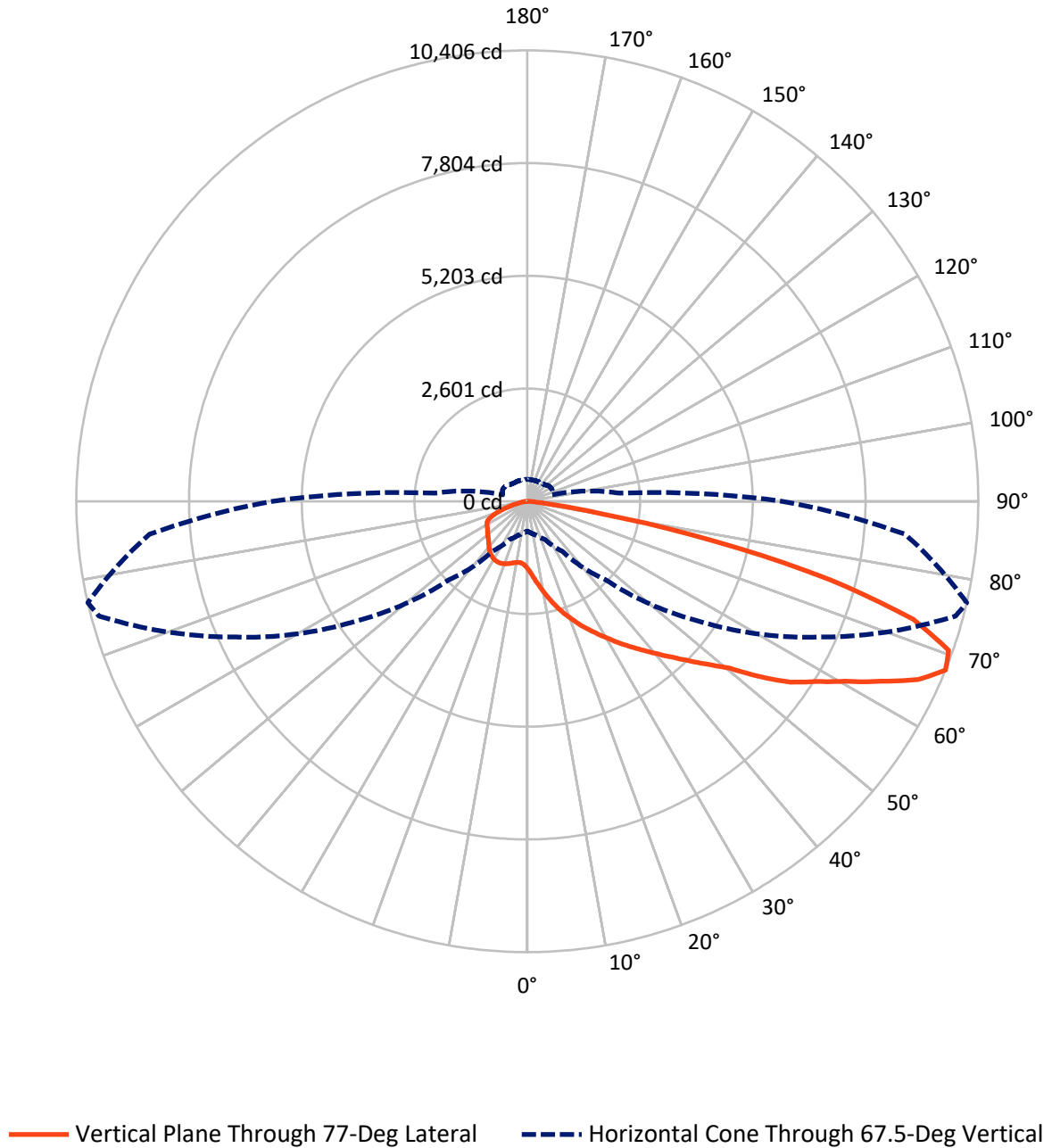
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P947133
CATALOG NUMBER: GALN-SB2C-827-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P947133
 CATALOG NUMBER: GALN-SB2C-827-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2509.2	0.0	2509.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	10755.8	0.0	10755.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	13265.0	0.0	13265.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.8	1.3
10°-20°	599.3	4.5
20°-30°	1131.6	8.5
30°-40°	1823.0	13.7
40°-50°	2493.5	18.8
50°-60°	2812.7	21.2
60°-70°	2625.3	19.8
70°-80°	1439.1	10.8
80°-90°	173.6	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°	13265.0	100.0
0°-180°	13265.0	100.0

Coefficient of Utilization



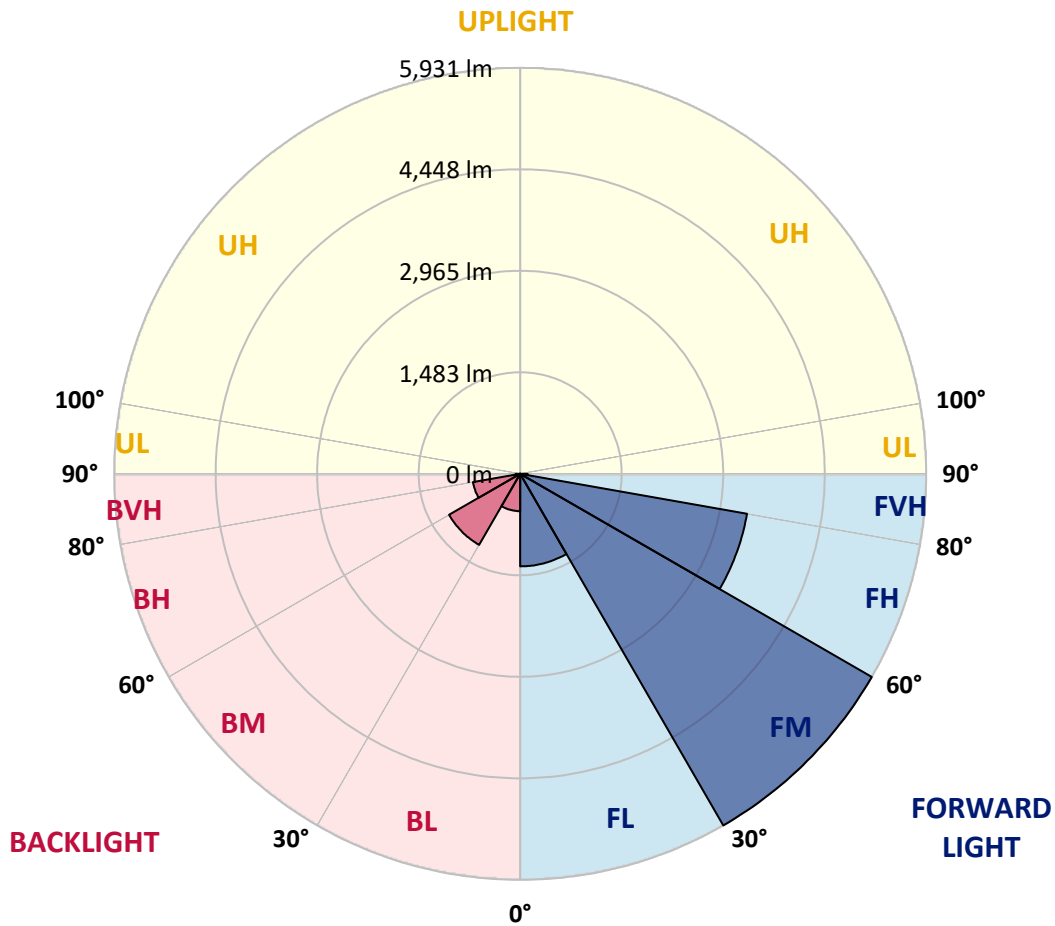
REPORT NUMBER: P947133
 CATALOG NUMBER: GALN-SB2C-827-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1352.2	10.2			
FM (30°-60°)	5930.6	44.7			
FH (60°-80°)	3364.4	25.4			G2/5000
FVH (80°-90°)	108.6	0.8			G2/225
BL (0°-30°)	545.6	4.1	B2/1000		
BM (30°-60°)	1198.6	9.0	B2/2500		
BH (60°-80°)	700.0	5.3	B2/1000		G2/1000
BVH (80°-90°)	65.0	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 II Medium



REPORT NUMBER: P947133
 CATALOG NUMBER: GALN-SB2C-827-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1556.4	1556.4	1556.4	1556.4	1556.4	1556.4	1556.4	1556.4	1556.4	1556.4
2.5°	1948.7	1962.4	1945.3	1945.3	1887.8	1857.7	1800.2	1756.3	1677.6	1663.9
5°	2303.4	2320.6	2296.6	2286.3	2218.5	2156.2	2059.7	1964.5	1824.1	1809.7
7.5°	2578.0	2599.9	2578.7	2567.7	2507.5	2437.6	2324.7	2191.8	1993.9	1965.9
10°	2801.9	2805.3	2798.5	2802.6	2755.4	2697.8	2582.1	2427.4	2180.2	2141.8
12.5°	2928.6	2944.3	2958.0	2982.7	2974.5	2938.9	2834.8	2649.9	2377.4	2328.1
15°	2988.2	3015.6	3046.4	3103.2	3149.1	3158.0	3078.6	2888.9	2578.0	2518.4
17.5°	3009.4	3035.4	3084.0	3166.2	3264.8	3331.2	3295.6	3121.0	2776.6	2708.1
20°	3116.9	3124.4	3153.9	3231.9	3338.8	3449.0	3475.7	3344.2	2973.1	2895.7
22.5°	3347.0	3331.9	3340.1	3375.7	3452.4	3559.2	3620.2	3541.4	3175.1	3086.1
25°	3727.0	3683.2	3639.4	3598.3	3637.3	3697.6	3766.7	3738.6	3386.7	3273.7
27.5°	4207.0	4153.6	4057.0	3922.1	3874.9	3896.1	3926.9	3921.5	3582.5	3468.2
30°	4679.5	4617.2	4502.1	4307.0	4182.3	4126.2	4102.9	4087.2	3795.5	3673.6
32.5°	5056.7	5007.4	4894.5	4676.0	4495.3	4399.4	4322.0	4265.9	4018.0	3896.1
35°	5386.8	5340.9	5211.5	4973.2	4776.7	4674.7	4573.3	4453.5	4249.4	4126.2
37.5°	5688.1	5642.2	5464.8	5217.0	5019.1	4948.6	4858.2	4654.8	4481.6	4365.2
40°	5878.4	5868.2	5702.5	5421.7	5216.3	5181.4	5151.2	4888.3	4739.0	4630.8
42.5°	5927.0	5949.6	5818.2	5587.4	5391.6	5363.5	5434.0	5152.6	5028.0	4924.6
45°	5810.0	5875.0	5788.7	5631.9	5516.2	5501.1	5684.6	5441.6	5347.8	5253.3
47.5°	5513.5	5623.7	5588.1	5566.2	5549.8	5614.8	5905.1	5748.3	5710.0	5627.8
50°	4915.0	5123.9	5186.2	5324.5	5483.3	5703.1	6105.8	6083.2	6133.1	6050.3
52.5°	3880.4	4168.0	4529.5	4876.0	5279.3	5673.7	6326.2	6563.8	6774.7	6729.5
55°	3203.2	3332.6	3610.6	4246.0	4883.5	5549.8	6425.5	6952.1	7411.5	7371.1
57.5°	2682.8	2798.5	2969.7	3500.4	4285.1	5268.3	6487.2	7189.0	7847.7	7843.6
60°	2124.7	2247.3	2422.6	2798.5	3585.9	4782.2	6473.5	7458.8	8404.4	8438.6
62.5°	1494.8	1629.7	1824.1	2174.7	2871.8	4152.2	6194.1	7653.9	9059.7	9152.8
65°	982.6	1071.6	1218.1	1520.8	2139.8	3342.2	5660.7	7679.3	9760.9	9918.3
67.5°	688.8	723.1	809.4	973.7	1410.5	2563.0	4810.9	7417.0	10228.5	10405.9
70°	537.5	554.6	598.5	664.2	886.0	1723.5	3686.6	6735.0	10128.6	10313.4
72.5°	464.2	480.7	497.1	505.3	594.3	1064.1	2497.2	5631.2	9187.1	9312.4
75°	421.1	425.2	438.9	436.2	453.3	690.2	1441.4	4102.9	7248.6	7205.4
77.5°	354.0	359.5	382.1	378.7	402.6	471.8	748.4	2647.9	4699.3	4406.3
80°	299.9	302.7	327.3	323.2	349.9	341.7	382.1	1349.6	1993.3	1688.5
82.5°	104.1	128.7	249.9	257.5	267.0	206.8	220.5	550.5	608.7	466.3
85°	50.7	54.1	127.4	180.8	180.1	104.1	107.5	196.5	191.7	150.6
87.5°	8.2	10.3	15.1	70.5	56.1	27.4	37.0	38.3	39.7	34.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947133
 CATALOG NUMBER: GALN-SB2C-827-U-T2R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1556.4	0°	1556.4	1556.4	1556.4	1556.4	1556.4	1556.4	1556.4	1556.4	1556.4	1556.4
1611.9	2.5°	1573.5	1539.3	1467.4	1401.0	1348.9	1298.9	1270.9	1246.9	1233.2	1230.5
1687.2	5°	1616.0	1545.4	1414.7	1304.4	1232.5	1179.1	1151.0	1133.2	1124.3	1118.9
1788.5	7.5°	1676.9	1573.5	1387.3	1262.0	1186.6	1148.3	1133.9	1131.2	1130.5	1131.2
1911.1	10°	1761.1	1619.4	1384.5	1251.7	1188.7	1167.5	1166.8	1167.5	1170.2	1170.9
2044.6	12.5°	1852.2	1666.6	1395.5	1260.6	1214.7	1203.1	1201.0	1200.3	1202.4	1203.8
2179.5	15°	1951.5	1728.9	1414.0	1279.8	1243.5	1231.1	1229.1	1225.0	1224.3	1223.6
2321.2	17.5°	2053.5	1790.6	1434.5	1300.3	1262.0	1244.8	1237.3	1227.7	1220.2	1218.1
2467.8	20°	2156.9	1851.5	1448.9	1310.6	1263.3	1239.4	1224.3	1207.9	1194.9	1187.3
2615.7	22.5°	2267.1	1915.2	1457.8	1307.8	1251.0	1218.1	1190.7	1171.6	1151.7	1138.7
2764.9	25°	2374.7	1970.7	1457.1	1293.5	1227.0	1185.3	1150.4	1125.7	1098.3	1084.6
2919.0	27.5°	2478.0	2020.6	1440.0	1268.1	1192.8	1146.2	1104.5	1075.0	1048.3	1035.3
3074.4	30°	2584.9	2062.4	1413.3	1231.1	1152.4	1101.0	1055.2	1029.8	1005.9	993.5
3238.8	32.5°	2691.0	2100.8	1375.6	1185.3	1105.8	1056.5	1011.3	988.1	973.7	973.7
3415.4	35°	2803.3	2127.5	1325.6	1131.9	1056.5	1009.3	973.7	960.0	958.6	950.4
3602.4	37.5°	2921.8	2144.6	1264.7	1077.1	1007.9	963.4	952.5	936.0	922.3	904.5
3807.8	40°	3046.4	2161.7	1191.4	1020.3	956.6	931.9	927.1	905.2	866.2	822.4
4040.6	42.5°	3197.7	2173.3	1115.4	963.4	902.5	894.3	901.1	863.4	801.1	768.3
4321.3	45°	3373.0	2192.5	1045.6	907.3	847.0	847.0	875.8	826.5	775.1	754.6
4641.8	47.5°	3600.3	2237.0	980.5	845.6	795.7	809.4	819.6	782.0	753.2	727.9
5032.1	50°	3929.0	2343.8	913.4	783.3	756.6	784.0	769.6	747.7	714.2	693.6
5652.5	52.5°	4337.1	2406.8	853.9	727.2	723.1	750.5	729.9	709.4	684.0	656.7
6122.9	55°	4615.1	2418.5	803.9	686.1	700.5	697.7	690.2	671.7	658.0	621.7
6587.1	57.5°	4926.0	2441.8	762.8	661.5	686.1	656.0	653.2	637.5	619.7	595.0
7153.4	60°	5297.8	2478.0	727.2	651.9	673.8	628.6	614.9	608.7	590.9	578.6
7834.7	62.5°	5703.1	2510.9	690.9	653.2	659.4	601.9	581.3	579.3	568.3	564.2
8474.2	65°	5979.8	2421.2	645.7	651.9	636.8	574.5	548.5	547.8	538.9	537.5
8751.6	67.5°	5883.2	2137.0	584.8	632.7	613.5	547.1	518.3	515.6	504.0	504.6
8461.9	70°	5399.8	1731.7	500.5	585.4	584.8	522.5	486.8	477.9	462.2	464.9
7357.4	72.5°	4493.2	1283.2	387.6	506.7	538.9	499.9	450.6	436.2	416.3	419.1
5431.3	75°	3244.9	872.3	282.1	385.5	469.0	473.2	414.9	390.3	366.3	370.4
3023.1	77.5°	1660.5	494.4	207.5	265.7	368.4	430.0	382.8	349.9	344.4	382.8
871.7	80°	541.6	247.9	143.8	186.2	241.7	352.0	335.5	297.9	296.5	305.4
182.8	82.5°	161.6	104.8	92.4	122.6	133.5	269.8	289.6	225.3	193.8	204.1
60.9	85°	55.5	50.7	52.7	60.9	63.7	158.2	202.7	149.3	141.1	155.4
13.7	87.5°	13.0	17.8	15.1	13.7	13.7	38.3	78.7	62.3	86.3	57.5
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>
1556.4
1230.5
1118.2
1133.2
1171.6
1204.4
1222.9
1220.2
1190.1
1139.4
1084.6
1034.6
992.9
974.4
948.4
901.8
816.2
769.0
758.0
727.2
691.6
651.2
622.4
586.8
582.0
564.2
536.8
504.6
467.7
418.4
371.8
377.3
262.3
210.9
153.4
55.5
0.0

F REPORT)