

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: P947846

Luminaire Tested: **GALN-SB3A-827-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
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-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9909 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

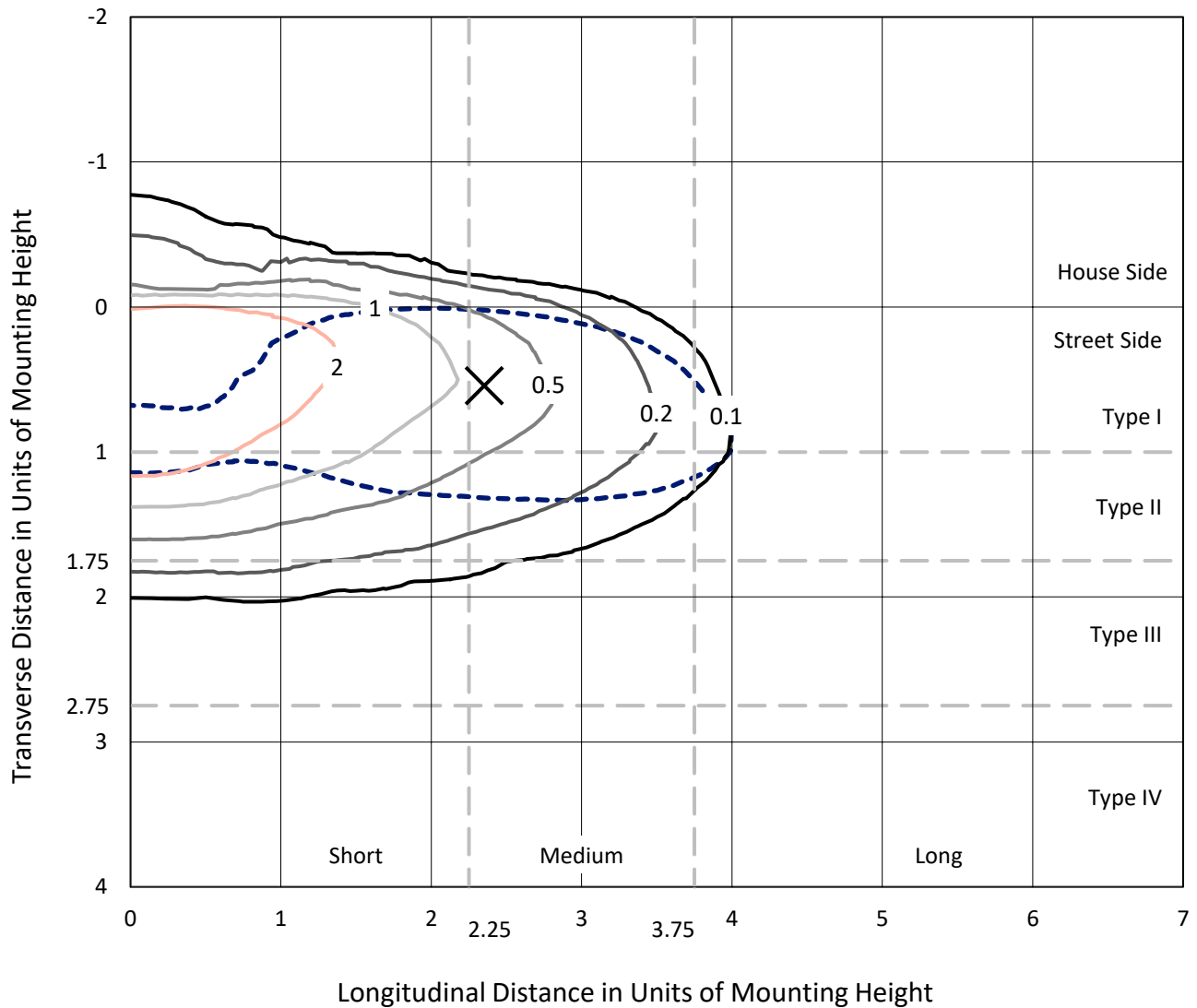
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947846
 CATALOG NUMBER: GALN-SB3A-827-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

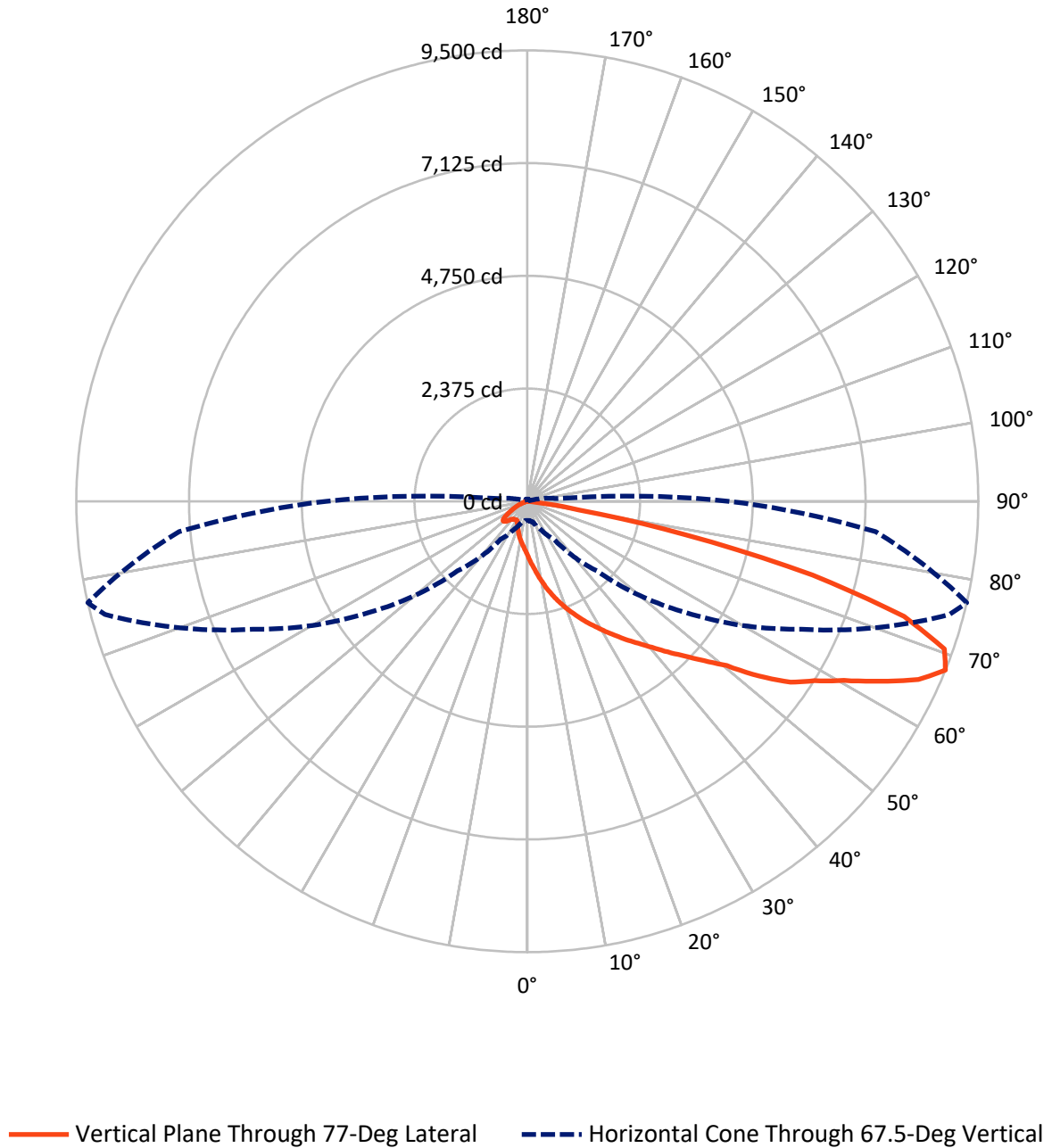
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P947846
CATALOG NUMBER: GALN-SB3A-827-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P947846
 CATALOG NUMBER: GALN-SB3A-827-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	729.0	0.0	729.0
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	9180.0	0.0	9180.0
	% Fixture	92.6	0.0	92.6
Total	Lumens	9909.0	0.0	9909.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.6	1.2
10°-20°	408.4	4.1
20°-30°	788.1	8.0
30°-40°	1368.2	13.8
40°-50°	1986.6	20.0
50°-60°	2281.4	23.0
60°-70°	1980.6	20.0
70°-80°	932.9	9.4
80°-90°	46.1	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°	9909.0	100.0
0°-180°	9909.0	100.0

Coefficient of Utilization



REPORT NUMBER: P947846

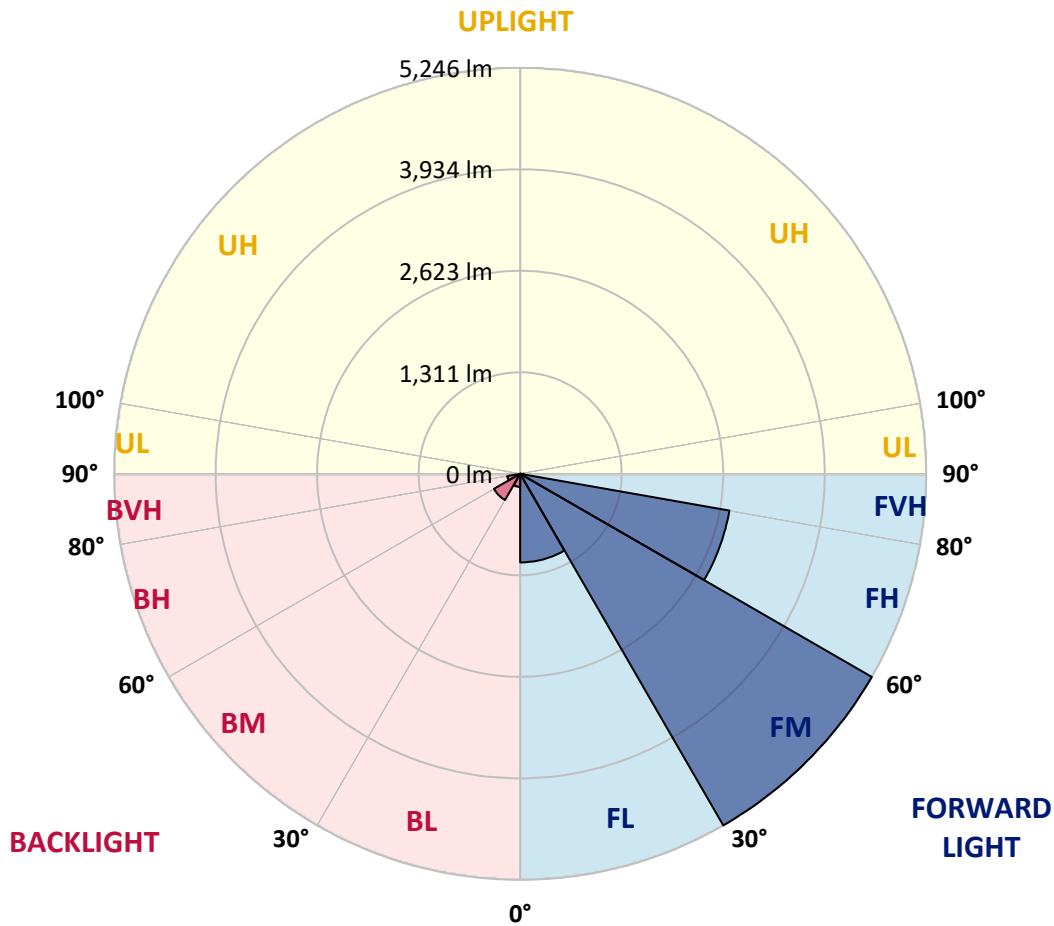
CATALOG NUMBER: GALN-SB3A-827-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1144.4	11.5			
FM (30°-60°)	5245.6	52.9			
FH (60°-80°)	2744.8	27.7			G2/5000
FVH (80°-90°)	45.3	0.5			G1/100
BL (0°-30°)	168.8	1.7	B1/500		
BM (30°-60°)	390.6	3.9	B1/1000		
BH (60°-80°)	168.8	1.7	B1/500		G1/500
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



REPORT NUMBER: P947846

CATALOG NUMBER: GALN-SB3A-827-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7
2.5°	1582.0	1591.8	1577.7	1550.6	1510.0	1483.5	1418.9	1358.0	1290.3	1268.8
5°	1928.4	1937.0	1921.0	1891.5	1837.4	1785.7	1700.8	1573.4	1441.1	1398.6
7.5°	2185.0	2189.9	2183.8	2156.7	2105.0	2046.6	1951.8	1801.0	1604.8	1558.0
10°	2369.6	2385.6	2383.8	2373.3	2338.8	2291.5	2190.5	2018.9	1788.1	1727.8
12.5°	2492.1	2509.9	2520.4	2543.7	2541.9	2511.7	2423.1	2241.6	1970.9	1900.1
15°	2527.7	2546.8	2586.8	2641.0	2689.0	2704.3	2642.2	2460.1	2172.1	2081.6
17.5°	2507.4	2537.0	2585.0	2670.5	2775.7	2845.2	2838.5	2671.1	2354.8	2251.5
20°	2552.4	2580.7	2618.2	2690.2	2812.6	2938.8	2989.2	2872.9	2536.4	2428.1
22.5°	2800.9	2796.0	2799.7	2811.4	2884.6	3009.5	3113.5	3056.3	2716.0	2605.3
25°	3194.8	3172.6	3135.1	3071.7	3053.2	3113.5	3221.8	3218.8	2905.6	2786.8
27.5°	3646.4	3642.7	3554.7	3402.1	3316.0	3292.6	3344.3	3376.9	3093.2	2966.5
30°	4079.0	4088.8	3970.1	3800.2	3642.1	3550.4	3503.6	3527.0	3284.0	3160.3
32.5°	4455.5	4466.0	4336.8	4138.0	3942.4	3831.6	3733.2	3675.3	3492.0	3357.2
35°	4773.7	4784.1	4635.8	4416.2	4207.6	4107.3	3995.9	3837.8	3701.2	3575.6
37.5°	5057.9	5054.9	4856.1	4634.6	4429.7	4350.3	4291.9	4037.7	3916.5	3795.3
40°	5225.9	5238.9	5069.0	4824.7	4626.0	4568.2	4564.5	4285.7	4165.1	4047.6
42.5°	5275.2	5297.9	5174.9	4974.3	4794.0	4731.2	4827.8	4554.0	4454.3	4339.9
45°	5186.6	5208.7	5152.7	5013.6	4908.4	4867.8	5054.3	4832.1	4763.2	4650.0
47.5°	4928.1	4955.8	4969.3	4939.8	4938.6	4979.8	5257.3	5125.0	5129.9	5014.3
50°	4427.9	4474.6	4598.9	4703.5	4865.4	5068.4	5454.8	5442.5	5543.4	5443.8
52.5°	3518.4	3584.9	4013.1	4299.3	4662.9	5051.8	5672.0	5952.0	6268.9	6123.1
55°	2827.4	2827.4	3175.7	3711.0	4267.9	4942.3	5766.8	6283.1	6763.0	6728.5
57.5°	2305.0	2332.7	2554.8	3028.0	3696.2	4681.4	5825.3	6491.0	7161.1	7135.9
60°	1422.6	1482.3	1902.0	2369.0	3045.8	4216.8	5788.3	6701.5	7644.1	7664.5
62.5°	801.1	823.3	1010.4	1704.4	2368.4	3592.3	5505.9	6819.0	8261.9	8348.1
65°	553.2	564.3	636.2	1060.8	1641.7	2860.0	4954.0	6745.8	8880.9	9055.1
67.5°	401.8	407.3	452.3	647.9	974.1	2073.6	4088.8	6376.6	9208.9	9500.0
70°	308.9	312.6	345.2	425.8	575.3	1279.9	2969.5	5642.5	8971.4	9319.1
72.5°	251.1	254.7	280.0	315.0	381.5	756.8	1799.8	4582.3	7922.9	8298.2
75°	211.7	216.6	239.4	262.1	299.0	486.1	844.2	3191.1	5958.2	6204.3
77.5°	117.5	108.3	194.4	217.2	252.3	307.7	395.0	1878.0	3336.9	3405.2
80°	73.2	75.7	154.4	174.8	193.8	155.1	180.9	723.0	1156.8	1099.0
82.5°	4.3	9.8	118.8	126.1	132.9	66.5	68.3	245.5	278.7	256.0
85°	0.0	0.0	54.1	43.7	46.1	19.1	19.7	57.2	37.5	40.6
87.5°	0.0	0.0	0.0	1.2	0.0	1.8	3.7	4.9	1.8	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P947846
 CATALOG NUMBER: GALN-SB3A-827-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1142.7	0°	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7	1142.7
1201.1	2.5°	1158.0	1115.0	1027.6	942.1	872.5	807.9	761.8	718.1	695.9	694.7
1278.6	5°	1193.1	1102.7	927.9	773.5	649.2	549.5	484.9	438.7	415.3	407.3
1374.0	7.5°	1242.3	1106.3	840.5	625.8	479.3	393.8	356.9	342.1	337.2	331.7
1481.7	10°	1304.5	1115.0	762.4	503.9	377.8	334.7	320.0	313.8	310.1	306.4
1602.9	12.5°	1374.0	1123.0	684.9	418.4	332.3	310.1	299.7	292.3	287.4	283.0
1727.2	15°	1441.7	1127.9	604.2	358.7	308.9	291.0	280.0	272.0	265.2	260.3
1849.0	17.5°	1508.8	1134.7	528.6	323.0	289.8	272.0	260.9	251.1	245.5	240.0
1977.0	20°	1583.2	1133.4	457.2	297.8	270.7	252.9	241.2	232.0	226.4	220.3
2112.4	22.5°	1652.1	1127.3	394.4	276.3	251.1	233.8	220.9	211.7	206.1	201.2
2250.8	25°	1731.5	1122.3	342.1	256.6	232.6	215.4	201.2	192.6	186.4	182.1
2389.9	27.5°	1807.8	1115.0	304.0	238.7	214.7	198.1	184.6	174.8	169.2	166.1
2533.3	30°	1882.9	1113.1	289.8	221.5	198.7	182.1	168.6	159.4	155.1	153.8
2690.8	32.5°	1973.3	1118.0	296.0	215.4	184.0	167.4	154.4	147.7	143.4	143.4
2866.2	35°	2069.9	1116.8	305.2	220.9	174.1	152.6	142.8	138.4	134.1	134.1
3060.6	37.5°	2191.2	1118.7	312.6	230.1	170.4	140.3	134.8	129.2	126.8	126.8
3273.5	40°	2372.1	1179.6	308.9	238.1	169.2	131.7	120.6	118.8	116.9	116.9
3514.1	42.5°	2593.6	1311.9	313.8	238.7	168.6	125.5	110.8	114.4	110.1	109.5
3785.5	45°	2836.0	1456.5	345.2	225.8	168.0	122.4	105.8	110.1	103.4	103.4
4099.9	47.5°	3076.6	1599.8	377.2	207.4	166.1	121.8	101.5	99.1	97.2	97.8
4509.7	50°	3408.3	1716.7	389.5	182.1	161.8	120.6	93.5	94.1	92.9	94.1
5087.5	52.5°	3769.5	1741.4	374.7	153.8	149.5	116.9	88.0	90.5	89.8	91.1
5494.2	55°	3994.7	1714.9	309.5	128.0	130.4	102.1	82.5	87.4	87.4	87.4
5891.7	57.5°	4227.3	1602.3	219.7	104.0	108.3	83.7	77.5	84.3	83.7	83.1
6370.4	60°	4394.6	1420.2	144.6	85.5	86.1	68.9	72.0	79.4	78.8	75.7
6863.9	62.5°	4519.5	1219.0	92.9	72.6	65.8	62.1	65.8	72.0	69.5	62.8
7282.3	65°	4505.4	940.2	71.4	62.1	54.1	54.1	57.2	62.8	55.4	44.3
7362.3	67.5°	4242.6	636.2	59.1	52.3	45.5	44.9	47.4	52.3	47.4	37.5
6952.5	70°	3773.2	416.0	47.4	40.6	36.3	33.2	38.1	44.9	40.0	30.2
5918.8	72.5°	3062.5	253.5	35.7	29.5	26.5	21.5	30.2	36.9	32.0	22.2
4115.9	75°	1981.3	129.2	24.6	19.1	14.2	12.9	22.2	27.7	22.2	13.5
1826.3	77.5°	758.1	54.1	13.5	8.6	7.4	6.2	12.3	16.6	9.2	3.1
353.8	80°	145.8	22.8	6.8	4.3	3.7	2.5	1.8	1.2	0.0	0.0
62.8	82.5°	25.2	7.4	2.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
12.3	85°	8.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4.3	87.5°	3.1	0.0	0.0	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

180°
<hr/>
1142.7
693.5
406.1
330.4
305.2
281.8
259.7
239.4
219.7
200.6
181.5
166.1
153.2
143.4
134.1
126.8
116.9
108.9
103.4
97.8
94.1
91.1
87.4
83.1
75.7
61.5
43.1
36.3
28.9
20.9
11.7
2.5
0.0
0.0
0.0
0.0
0.0

F REPORT)