

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: P950346

Luminaire Tested: **GALN-SB4D-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950346
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-SB4D-827-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36122 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

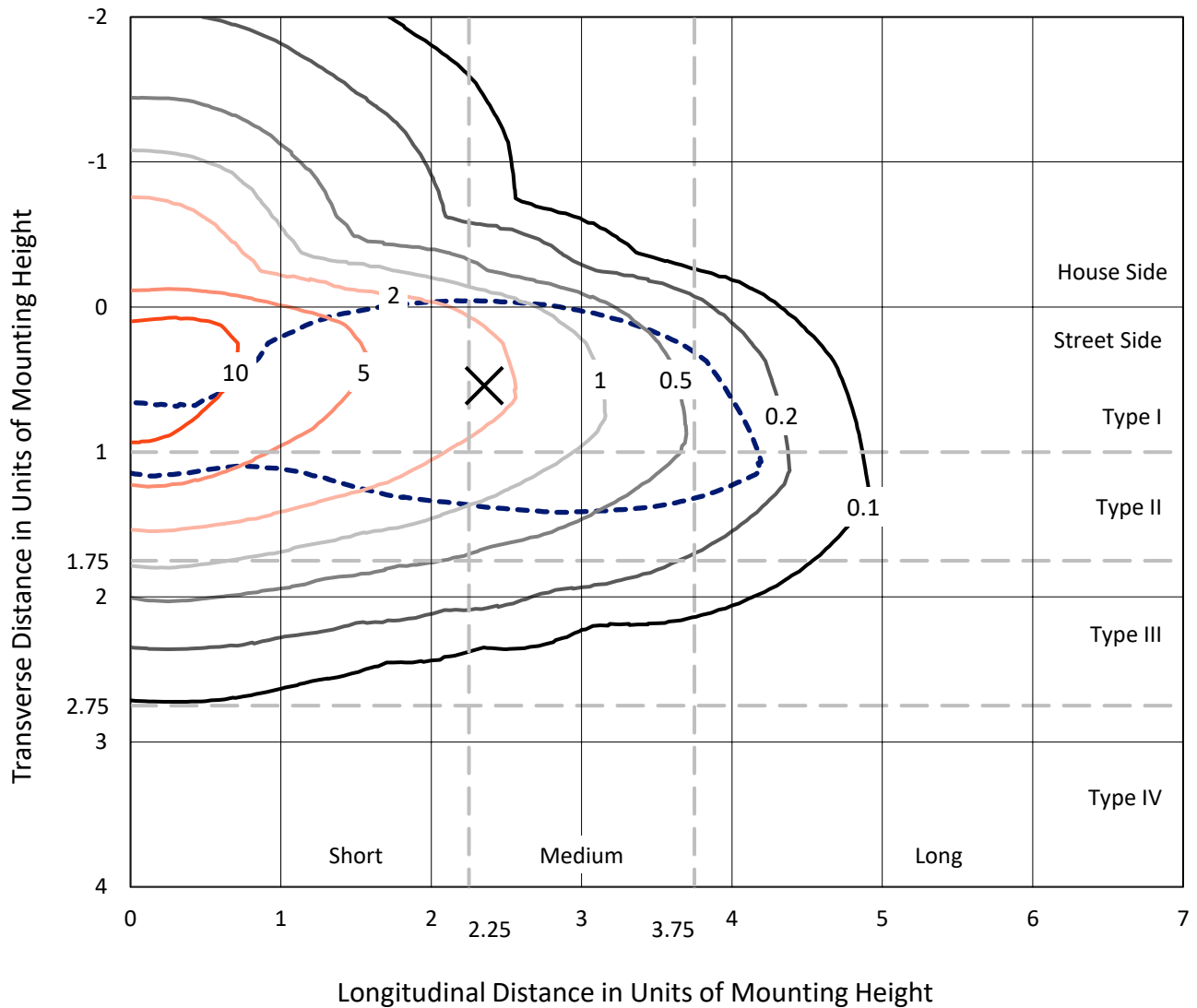
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P950346
 CATALOG NUMBER: GALN-SB4D-827-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

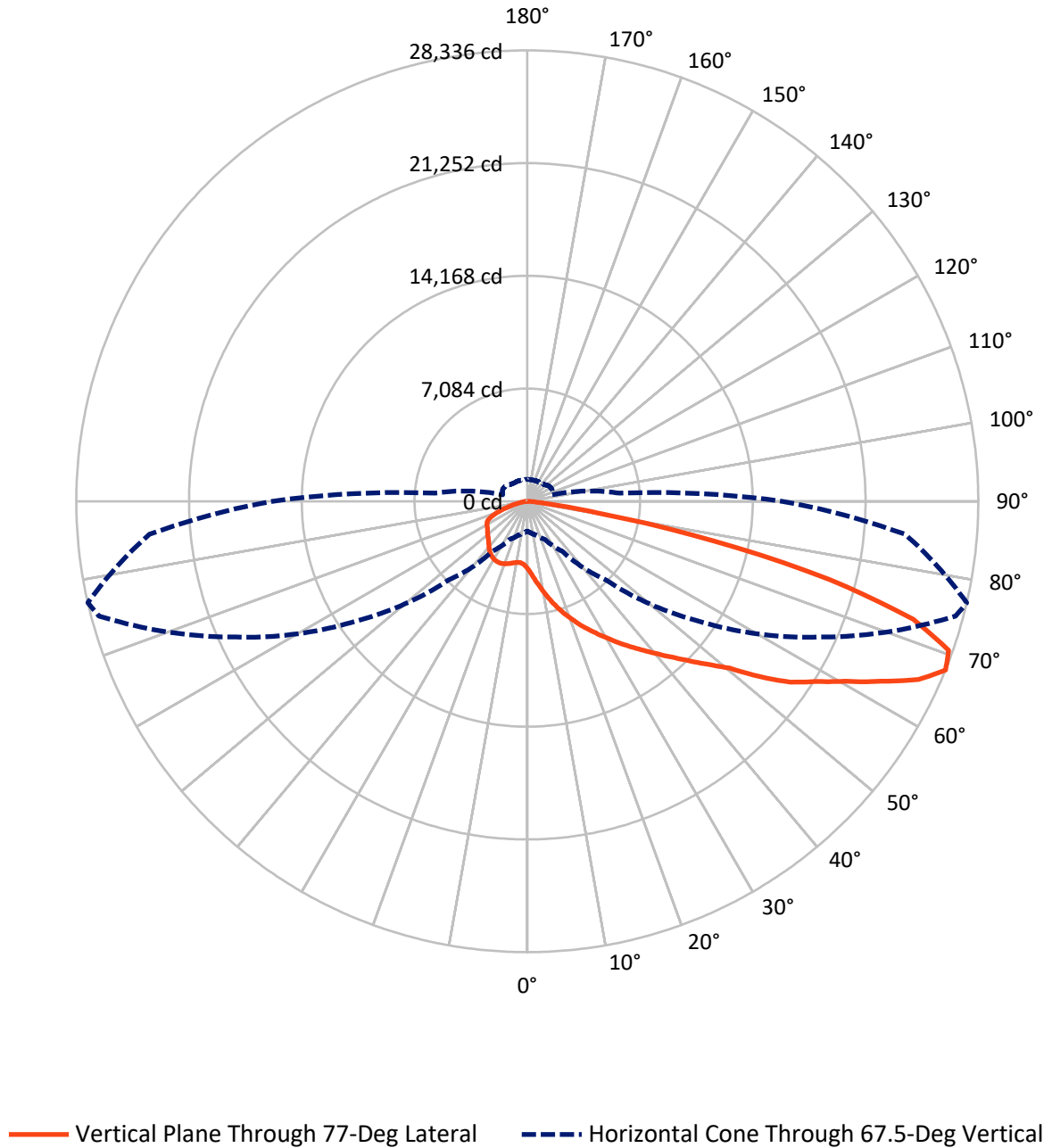
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P950346
CATALOG NUMBER: GALN-SB4D-827-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P950346
 CATALOG NUMBER: GALN-SB4D-827-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6832.8	0.0	6832.8
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	29289.2	0.0	29289.2
	% Fixture	81.1	0.0	81.1
Total	Lumens	36122.0	0.0	36122.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	454.3	1.3
10°-20°	1632.1	4.5
20°-30°	3081.5	8.5
30°-40°	4964.2	13.7
40°-50°	6790.1	18.8
50°-60°	7659.3	21.2
60°-70°	7149.0	19.8
70°-80°	3918.9	10.8
80°-90°	472.7	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°	36122.0	100.0
0°-180°	36122.0	100.0

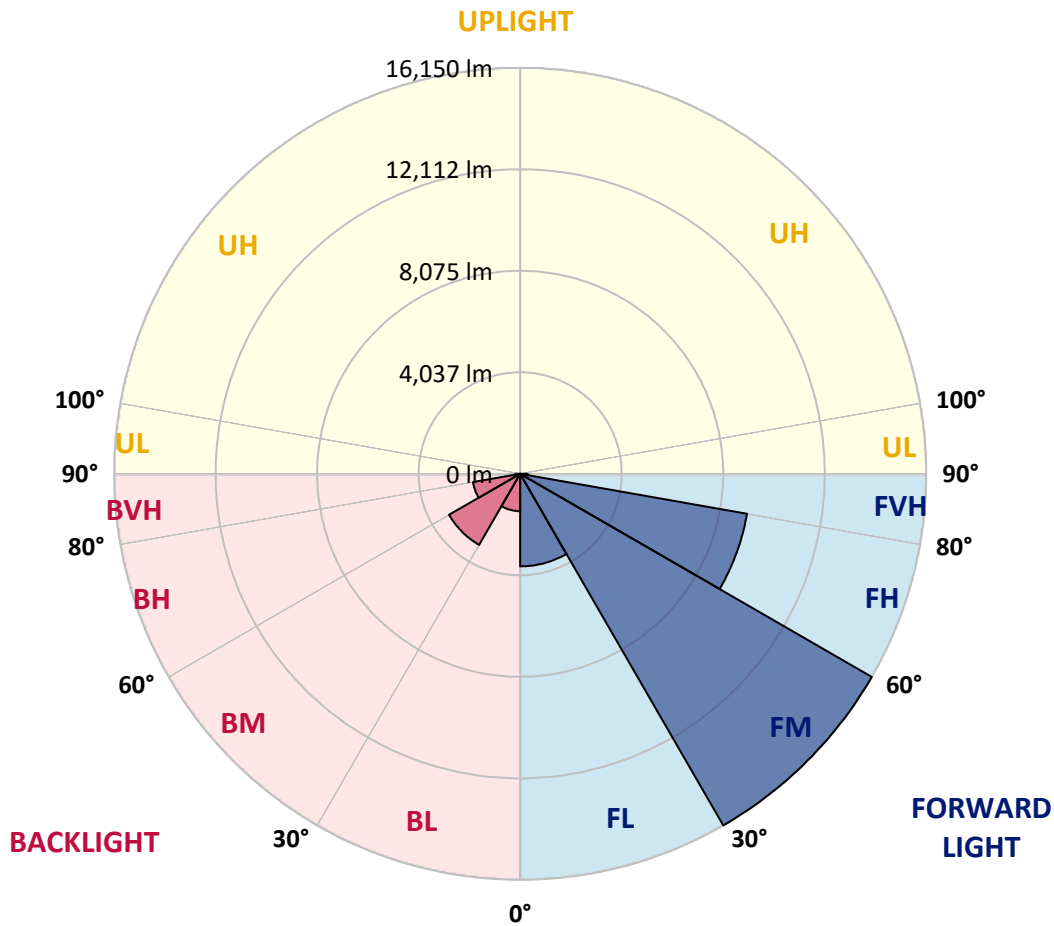


REPORT NUMBER: P950346
 CATALOG NUMBER: GALN-SB4D-827-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3682.2	10.2			
FM (30°-60°)	16149.8	44.7			
FH (60°-80°)	9161.6	25.4			G4/12000
FVH (80°-90°)	295.6	0.8			G3/500
BL (0°-30°)	1485.6	4.1	B3/2500		
BM (30°-60°)	3263.9	9.0	B3/5000		
BH (60°-80°)	1906.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	177.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Medium



REPORT NUMBER: P950346
 CATALOG NUMBER: GALN-SB4D-827-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	4238.2	4238.2	4238.2	4238.2	4238.2	4238.2	4238.2	4238.2	4238.2	4238.2
2.5°	5306.6	5343.9	5297.3	5297.3	5140.7	5058.7	4902.0	4782.7	4568.3	4531.0
5°	6272.5	6319.1	6253.9	6225.9	6041.3	5871.6	5608.7	5349.5	4967.3	4928.1
7.5°	7020.2	7079.9	7022.1	6992.2	6828.2	6638.0	6330.3	5968.6	5429.7	5353.3
10°	7629.9	7639.3	7620.6	7631.8	7503.1	7346.5	7031.4	6610.0	5936.9	5832.5
12.5°	7974.9	8017.8	8055.1	8122.2	8099.8	8002.9	7719.4	7216.0	6473.9	6339.6
15°	8137.1	8211.7	8295.6	8450.4	8575.3	8599.5	8383.2	7866.7	7020.2	6858.0
17.5°	8194.9	8265.8	8398.2	8621.9	8890.4	9071.3	8974.3	8498.8	7560.9	7374.5
20°	8487.7	8508.2	8588.3	8800.9	9091.8	9392.0	9464.7	9106.7	8096.1	7885.4
22.5°	9114.2	9073.1	9095.5	9192.5	9401.3	9692.2	9858.1	9643.7	8646.1	8403.7
25°	10149.0	10029.7	9910.3	9798.5	9904.7	10068.8	10257.2	10180.7	9222.3	8914.6
27.5°	11456.1	11310.7	11047.7	10680.4	10551.8	10609.6	10693.5	10678.6	9755.6	9444.2
30°	12742.7	12573.0	12259.7	11728.3	11389.0	11236.1	11172.7	11129.8	10335.5	10003.6
32.5°	13770.1	13635.8	13328.2	12733.3	12241.1	11980.0	11769.3	11616.4	10941.5	10609.6
35°	14668.8	14543.9	14191.5	13542.6	13007.4	12729.6	12453.7	12127.3	11571.7	11236.1
37.5°	15489.2	15364.3	14881.4	14206.4	13667.5	13475.5	13229.3	12675.5	12203.8	11886.8
40°	16007.6	15979.6	15528.4	14763.9	14204.5	14109.4	14027.4	13311.4	12904.9	12610.3
42.5°	16140.0	16201.5	15843.5	15215.1	14681.9	14605.4	14797.5	14031.1	13691.7	13410.2
45°	15821.1	15998.3	15763.3	15336.3	15021.2	14980.2	15479.9	14818.0	14562.5	14305.2
47.5°	15013.7	15313.9	15217.0	15157.3	15112.6	15289.7	16080.3	15653.3	15548.9	15325.1
50°	13384.1	13952.8	14122.5	14499.1	14931.7	15530.2	16626.6	16565.1	16701.2	16475.6
52.5°	10566.7	11349.8	12334.3	13277.8	14376.1	15450.1	17227.0	17874.0	18448.3	18325.3
55°	8722.6	9075.0	9832.0	11562.4	13298.3	15112.6	17497.4	18931.3	20182.4	20072.4
57.5°	7305.5	7620.6	8086.8	9531.8	11668.7	14346.2	17665.2	19576.4	21370.2	21359.0
60°	5785.8	6119.6	6597.0	7620.6	9764.9	13022.4	17627.9	20311.1	22886.1	22979.3
62.5°	4070.4	4437.7	4967.3	5922.0	7820.1	11306.9	16867.2	20842.5	24670.5	24924.1
65°	2675.7	2918.1	3317.1	4141.3	5826.9	9101.1	15414.6	20911.5	26579.9	27008.7
67.5°	1875.8	1969.0	2204.0	2651.5	3841.1	6979.2	13100.7	20197.3	27853.4	28336.3
70°	1463.7	1510.3	1629.7	1808.7	2412.8	4693.2	10039.0	18340.2	27581.1	28084.6
72.5°	1264.2	1308.9	1353.7	1376.1	1618.5	2897.6	6800.2	15334.5	25017.3	25358.5
75°	1146.7	1157.9	1195.2	1187.7	1234.4	1879.5	3925.0	11172.7	19738.6	19621.2
77.5°	964.0	978.9	1040.4	1031.1	1096.4	1284.7	2038.0	7210.4	12796.7	11998.7
80°	816.7	824.2	891.3	880.1	952.8	930.4	1040.4	3675.1	5427.8	4598.1
82.5°	283.4	350.5	680.6	701.1	727.2	563.1	600.4	1499.1	1657.6	1269.8
85°	138.0	147.3	346.8	492.3	490.4	283.4	292.7	535.1	522.1	410.2
87.5°	22.4	28.0	41.0	192.1	152.9	74.6	100.7	104.4	108.1	93.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P950346
 CATALOG NUMBER: GALN-SB4D-827-U-T2R

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4238.2	0°	4238.2	4238.2	4238.2	4238.2	4238.2	4238.2	4238.2	4238.2	4238.2	4238.2
4389.3	2.5°	4284.8	4191.6	3995.8	3815.0	3673.3	3537.1	3460.7	3395.4	3358.1	3350.7
4594.4	5°	4400.5	4208.4	3852.3	3552.1	3356.3	3210.8	3134.4	3085.9	3061.7	3046.8
4870.3	7.5°	4566.4	4284.8	3777.7	3436.5	3231.3	3126.9	3087.8	3080.3	3078.5	3080.3
5204.1	10°	4795.7	4409.8	3770.2	3408.5	3236.9	3179.1	3177.3	3179.1	3186.6	3188.5
5567.7	12.5°	5043.7	4538.4	3800.1	3432.7	3307.8	3276.1	3270.5	3268.6	3274.2	3278.0
5935.0	15°	5314.1	4708.1	3850.4	3484.9	3386.1	3352.5	3347.0	3335.8	3333.9	3332.0
6321.0	17.5°	5591.9	4875.9	3906.3	3540.9	3436.5	3389.8	3369.3	3343.2	3322.7	3317.1
6720.0	20°	5873.5	5041.9	3945.5	3568.8	3440.2	3374.9	3333.9	3289.2	3253.7	3233.2
7122.8	22.5°	6173.7	5215.3	3969.7	3561.4	3406.6	3317.1	3242.5	3190.3	3136.3	3100.8
7529.2	25°	6466.4	5366.3	3967.9	3522.2	3341.4	3227.6	3132.5	3065.4	2990.8	2953.5
7948.8	27.5°	6748.0	5502.4	3921.3	3453.2	3248.1	3121.3	3007.6	2927.4	2854.7	2819.3
8372.0	30°	7038.9	5616.2	3848.5	3352.5	3138.1	2998.3	2873.3	2804.4	2739.1	2705.5
8819.6	32.5°	7327.9	5720.6	3746.0	3227.6	3011.3	2877.1	2754.0	2690.6	2651.5	2651.5
9300.6	35°	7633.7	5793.3	3609.9	3082.2	2877.1	2748.4	2651.5	2614.2	2610.4	2588.1
9809.7	37.5°	7956.2	5839.9	3443.9	2933.0	2744.7	2623.5	2593.7	2548.9	2511.6	2463.1
10369.0	40°	8295.6	5886.5	3244.4	2778.3	2604.8	2537.7	2524.7	2465.0	2358.7	2239.4
11003.0	42.5°	8707.7	5918.2	3037.4	2623.5	2457.5	2435.2	2453.8	2351.3	2181.6	2092.1
11767.5	45°	9185.0	5970.4	2847.2	2470.6	2306.5	2306.5	2384.8	2250.6	2110.7	2054.8
12640.1	47.5°	9804.1	6091.6	2670.1	2302.8	2166.7	2204.0	2231.9	2129.4	2051.1	1982.1
13702.9	50°	10699.1	6382.5	2487.4	2133.1	2060.4	2135.0	2095.8	2036.1	1944.8	1888.8
15392.3	52.5°	11810.4	6554.1	2325.2	1980.2	1969.0	2043.6	1987.7	1931.7	1862.7	1788.2
16673.2	55°	12567.4	6585.8	2189.0	1868.3	1907.5	1900.0	1879.5	1829.2	1791.9	1693.1
17937.4	57.5°	13413.9	6649.2	2077.2	1801.2	1868.3	1786.3	1778.8	1735.9	1687.5	1620.3
19479.5	60°	14426.4	6748.0	1980.2	1775.1	1834.8	1711.7	1674.4	1657.6	1609.1	1575.6
21334.7	62.5°	15530.2	6837.5	1881.4	1778.8	1795.6	1639.0	1583.0	1577.5	1547.6	1536.4
23076.3	65°	16283.5	6593.2	1758.3	1775.1	1734.1	1564.4	1493.5	1491.7	1467.4	1463.7
23831.4	67.5°	16020.6	5819.4	1592.4	1722.9	1670.7	1489.8	1411.5	1404.0	1372.3	1374.2
23042.7	70°	14704.2	4715.6	1363.0	1594.2	1592.4	1422.7	1325.7	1301.5	1258.6	1266.1
20035.1	72.5°	12235.5	3494.3	1055.4	1379.8	1467.4	1361.2	1226.9	1187.7	1133.7	1141.1
14790.0	75°	8836.3	2375.5	768.2	1049.8	1277.3	1288.4	1129.9	1062.8	997.6	1008.7
8232.2	77.5°	4521.7	1346.2	565.0	723.5	1003.2	1171.0	1042.3	952.8	937.9	1042.3
2373.6	80°	1474.9	675.0	391.6	507.2	658.2	958.4	913.7	811.1	807.4	831.6
497.8	82.5°	440.0	285.3	251.7	333.8	363.6	734.7	788.7	613.5	527.7	555.7
165.9	85°	151.0	138.0	143.6	165.9	173.4	430.7	551.9	406.5	384.1	423.3
37.3	87.5°	35.4	48.5	41.0	37.3	37.3	104.4	214.4	169.7	234.9	156.6
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°
4238.2
3350.7
3044.9
3085.9
3190.3
3279.8
3330.2
3322.7
3240.7
3102.7
2953.5
2817.4
2703.7
2653.3
2582.5
2455.7
2222.6
2093.9
2064.1
1980.2
1883.2
1773.2
1694.9
1598.0
1584.9
1536.4
1461.8
1374.2
1273.5
1139.3
1012.5
1027.4
714.1
574.3
417.7
151.0
0.0

F REPORT)