

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: P941166

Luminaire Tested: **GALN-SB4C-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20469 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

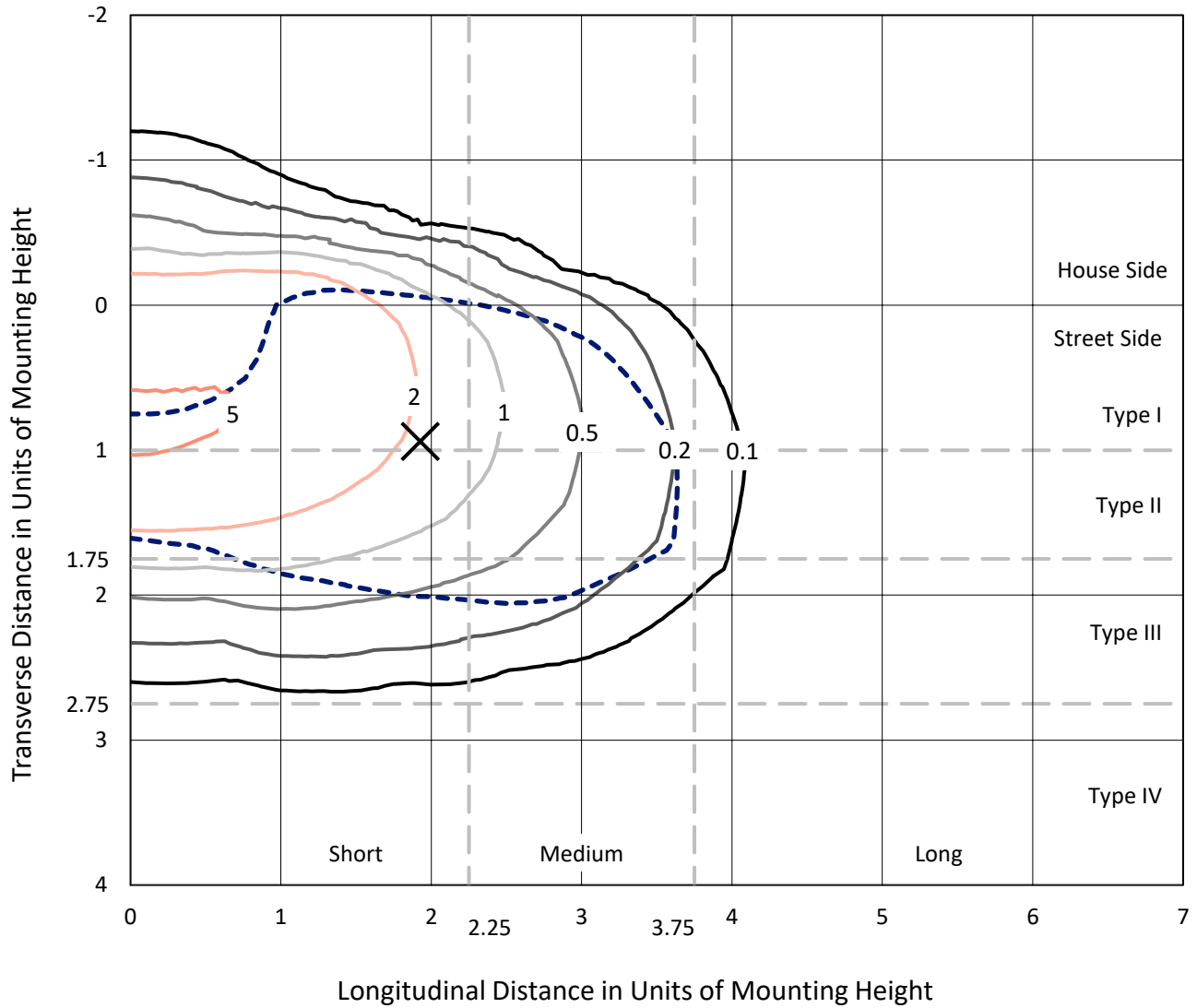
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P941166
 CATALOG NUMBER: GALN-SB4C-827-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

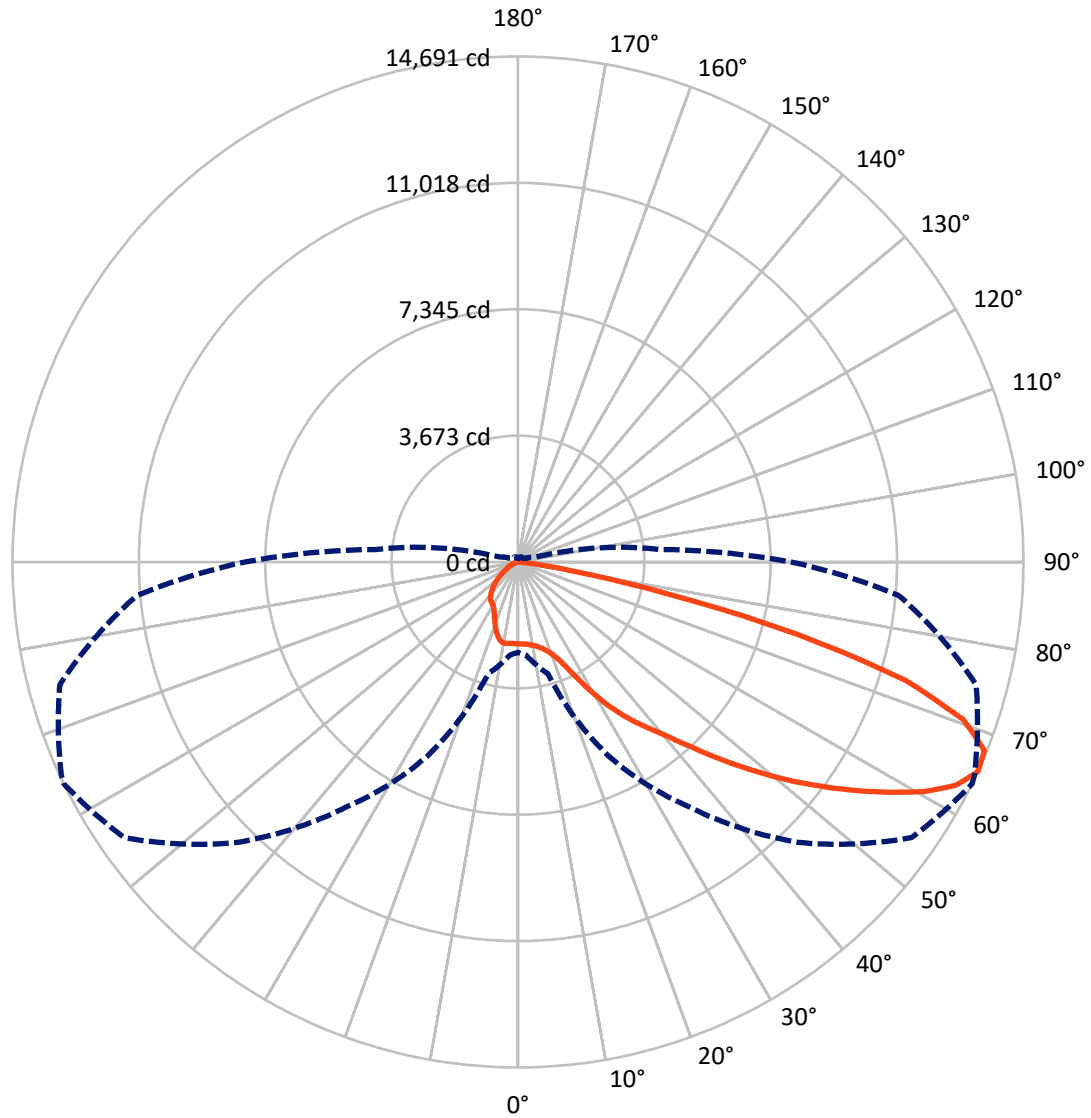
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type III - Short - N/A

REPORT NUMBER: P941166
CATALOG NUMBER: GALN-SB4C-827-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P941166
 CATALOG NUMBER: GALN-SB4C-827-U-T3-HSS

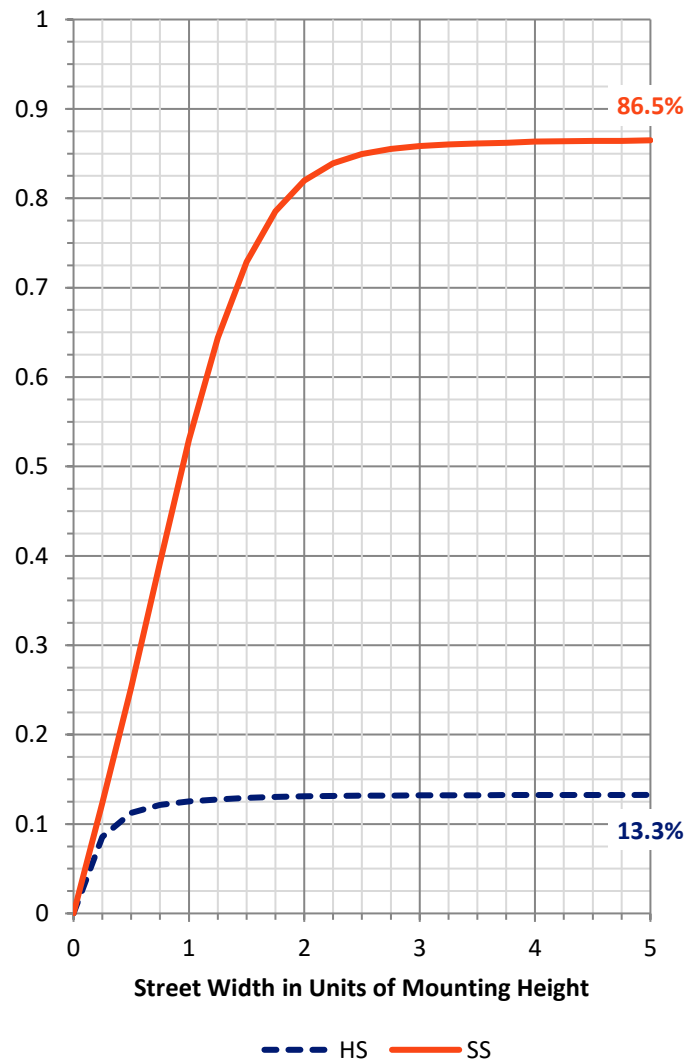
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2737.3	0.0	2737.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	17731.7	0.0	17731.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	20469.0	0.0	20469.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.7	1.1
10°-20°	595.8	2.9
20°-30°	1128.9	5.5
30°-40°	2284.4	11.2
40°-50°	3891.4	19.0
50°-60°	5292.0	25.9
60°-70°	4969.5	24.3
70°-80°	1991.0	9.7
80°-90°	96.5	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°	20469.0	100.0
0°-180°	20469.0	100.0

Coefficient of Utilization



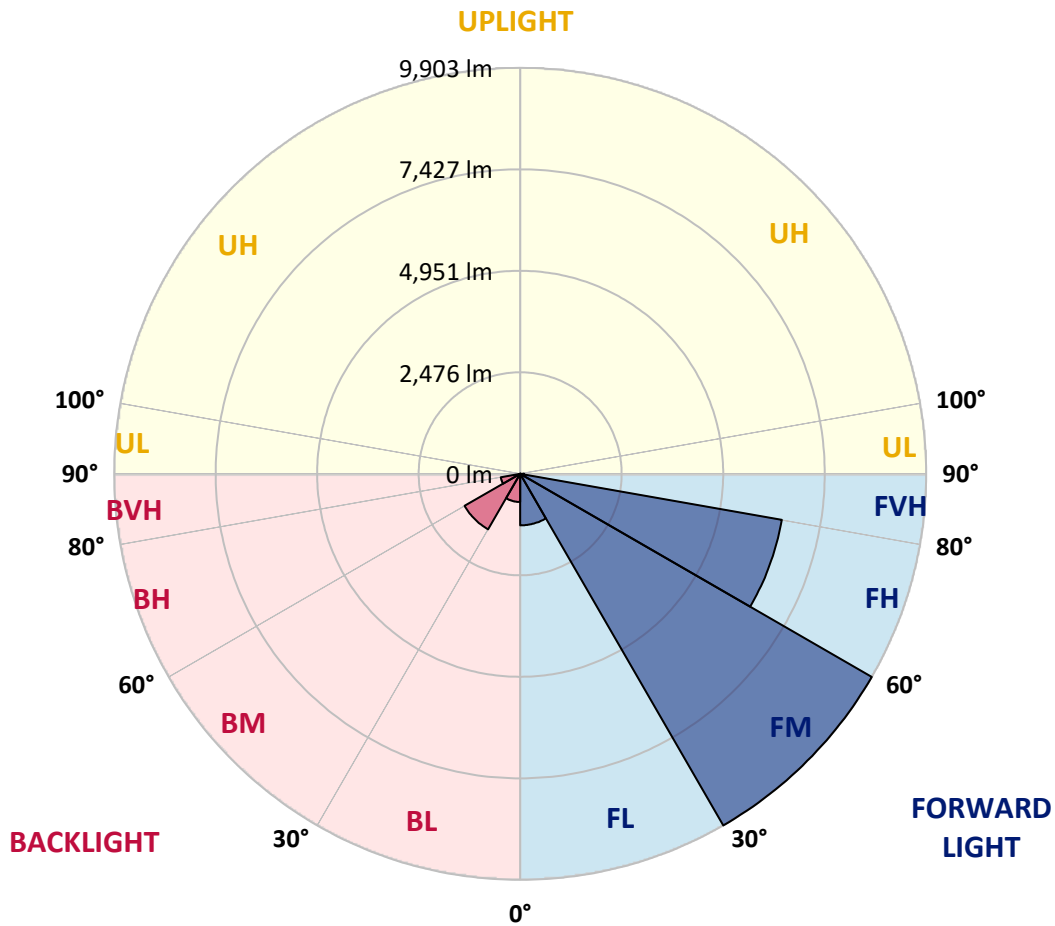
REPORT NUMBER: P941166
 CATALOG NUMBER: GALN-SB4C-827-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1257.0	6.1			
FM (30°-60°)	9902.9	48.4			
FH (60°-80°)	6480.0	31.7			G3/7500
FVH (80°-90°)	91.7	0.4			G1/100
BL (0°-30°)	687.3	3.4	B2/1000		
BM (30°-60°)	1564.9	7.6	B2/2500		
BH (60°-80°)	480.4	2.3	B1/500		G1/500
BVH (80°-90°)	4.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



REPORT NUMBER: P941166
 CATALOG NUMBER: GALN-SB4C-827-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°
0°	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8
2.5°	2372.5	2389.0	2384.9	2380.8	2379.4	2382.1	2383.5	2382.1	2382.1	2382.1
5°	2327.2	2341.0	2341.0	2350.6	2364.3	2380.8	2393.1	2395.9	2398.6	2402.7
7.5°	2240.8	2251.8	2260.0	2291.6	2325.9	2369.8	2406.8	2426.0	2428.8	2443.9
10°	2181.8	2195.5	2209.2	2242.2	2291.6	2357.4	2420.6	2467.2	2474.1	2509.7
12.5°	2179.0	2192.8	2210.6	2246.3	2303.9	2373.9	2450.7	2518.0	2530.3	2582.5
15°	2207.9	2224.3	2240.8	2284.7	2346.5	2431.5	2513.9	2597.6	2609.9	2684.0
17.5°	2266.9	2288.8	2301.2	2345.1	2410.9	2505.6	2614.0	2710.1	2721.1	2807.5
20°	2383.5	2409.6	2413.7	2449.4	2513.9	2615.4	2744.4	2863.8	2877.5	2976.3
22.5°	2625.0	2662.1	2629.1	2647.0	2704.6	2806.1	2946.1	3097.0	3116.3	3228.8
25°	3050.4	3102.5	3017.5	2987.3	3012.0	3117.6	3293.3	3484.0	3506.0	3596.5
27.5°	3886.1	3818.8	3689.8	3563.6	3489.5	3549.9	3747.5	3983.5	4010.9	4098.7
30°	4804.1	4745.0	4570.8	4290.9	4115.2	4105.6	4288.1	4551.6	4583.1	4666.8
32.5°	5723.4	5667.2	5477.8	5133.4	4828.8	4677.8	4804.1	5096.3	5112.8	5166.3
35°	6627.7	6570.1	6380.7	6028.0	5653.4	5310.4	5285.7	5615.0	5620.5	5676.8
37.5°	7537.5	7489.4	7287.7	6941.9	6572.8	6099.4	5870.2	6106.3	6113.1	6168.0
40°	8186.5	8207.1	8068.5	7800.9	7483.9	6966.6	6526.2	6629.1	6587.9	6679.8
42.5°	8743.6	8784.8	8664.0	8529.6	8345.7	7890.1	7338.5	7320.7	7254.8	7304.2
45°	9225.3	9259.6	9151.2	9119.6	9115.5	8795.8	8226.3	8119.3	8027.3	8017.7
47.5°	9402.3	9468.1	9514.8	9620.5	9826.3	9691.8	9144.3	8978.3	8875.4	8799.9
50°	9469.5	9539.5	9698.7	10006.0	10493.2	10550.8	10058.2	9871.6	9745.3	9608.1
52.5°	9378.9	9503.8	9717.9	10235.2	10941.9	11239.6	10935.0	10771.7	10627.6	10404.0
55°	8845.2	8970.0	9407.8	10232.5	11165.5	11722.7	11763.8	11691.1	11529.2	11176.5
57.5°	7720.0	7905.2	8598.2	9883.9	11161.4	12138.4	12576.2	12628.3	12447.2	11942.2
60°	6161.2	6412.3	7257.5	9111.4	10817.0	12363.5	13288.3	13549.0	13356.9	12696.9
62.5°	4299.1	4590.0	5390.0	7901.1	10029.4	12201.6	13808.4	14290.0	14144.6	13372.0
65°	2622.3	2715.6	3360.5	6217.4	8690.1	11523.7	13968.9	14690.7	14642.7	13785.1
67.5°	1746.8	1825.0	2010.3	4263.4	6745.7	10169.3	13584.7	14620.7	14634.5	13717.8
70°	1052.5	1119.7	1240.5	2479.6	4371.8	8049.3	12395.0	13728.8	13808.4	12819.0
72.5°	433.6	478.9	588.7	1123.8	2264.1	5108.7	9870.2	11787.1	11972.4	10778.6
75°	245.6	269.0	345.8	564.0	982.5	2380.8	5978.7	8367.6	8640.7	7429.1
77.5°	163.3	174.3	223.7	365.0	553.0	812.3	2555.0	4359.5	4880.9	4057.6
80°	109.8	119.4	153.7	244.3	359.5	348.5	813.7	1615.1	1986.9	1394.1
82.5°	74.1	75.5	109.8	160.5	227.8	168.8	240.1	502.2	631.2	403.4
85°	42.5	41.2	81.0	93.3	101.5	70.0	72.7	150.9	197.6	170.2
87.5°	5.5	8.2	31.6	24.7	13.7	15.1	15.1	26.1	38.4	41.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941166
 CATALOG NUMBER: GALN-SB4C-827-U-T3-HSS

CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
2380.8	0°	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8	2380.8
2383.5	2.5°	2383.5	2382.1	2378.0	2373.9	2364.3	2358.8	2361.5	2358.8	2357.4	2358.8
2401.3	5°	2401.3	2397.2	2386.2	2372.5	2353.3	2330.0	2314.9	2292.9	2272.4	2260.0
2449.4	7.5°	2449.4	2445.3	2430.2	2391.7	2330.0	2232.6	2143.4	2065.2	2006.1	1971.8
2526.2	10°	2526.2	2519.3	2496.0	2410.9	2249.0	2036.3	1859.3	1712.5	1616.4	1571.2
2616.8	12.5°	2616.8	2608.5	2567.4	2393.1	2095.3	1763.3	1519.0	1355.7	1266.5	1226.7
2721.1	15°	2723.8	2712.8	2631.9	2308.0	1871.7	1461.4	1237.7	1115.6	1058.0	1022.3
2854.2	17.5°	2856.9	2837.7	2679.9	2180.4	1628.8	1230.9	1064.8	972.9	922.1	887.8
3028.4	20°	3029.8	2998.2	2718.3	2028.1	1405.1	1085.4	948.2	871.3	832.9	802.7
3275.4	22.5°	3271.3	3226.0	2765.0	1863.4	1247.3	985.2	861.7	805.5	773.9	739.6
3619.8	25°	3570.4	3516.9	2822.6	1711.1	1138.9	898.8	798.6	752.0	714.9	675.1
4071.3	27.5°	3989.0	3892.9	2891.2	1586.3	1045.6	824.7	741.0	688.8	646.3	613.4
4583.1	30°	4455.5	4297.7	2951.6	1510.8	960.5	756.1	665.5	613.4	573.6	550.2
5042.8	32.5°	4897.4	4683.3	2991.4	1477.9	883.7	677.9	583.2	526.9	496.7	489.9
5492.9	35°	5314.5	5031.8	2987.3	1446.3	815.1	599.6	502.2	444.6	421.3	425.4
5977.3	37.5°	5794.8	5403.7	2958.5	1396.9	758.8	528.3	432.2	381.5	360.9	362.3
6566.0	40°	6353.3	5833.2	2940.6	1303.6	697.1	462.4	374.6	333.4	318.3	312.9
7186.2	42.5°	6948.8	6249.0	2943.4	1197.9	620.2	403.4	334.8	300.5	286.8	282.7
7876.4	45°	7547.1	6645.5	2947.5	1088.2	539.3	358.1	306.0	277.2	269.0	263.5
8576.2	47.5°	8109.7	6983.1	2870.6	970.1	459.7	323.8	282.7	263.5	256.6	249.7
9278.8	50°	8633.8	7208.1	2685.4	832.9	396.6	296.4	264.8	251.1	244.3	237.4
9915.5	52.5°	9041.4	7243.8	2379.4	691.6	352.7	275.8	253.9	241.5	233.3	226.4
10430.0	55°	9222.5	7020.1	1944.4	559.9	318.3	258.0	242.9	230.5	220.9	214.1
10834.8	57.5°	9175.9	6549.5	1516.3	450.1	285.4	240.1	229.2	220.9	209.9	199.0
11162.8	60°	8946.7	5919.6	1143.0	374.6	255.2	220.9	214.1	207.2	192.1	175.6
11289.0	62.5°	8550.1	5127.9	815.1	310.1	222.3	199.0	196.2	190.7	168.8	138.6
11102.4	65°	7943.6	4166.0	548.9	258.0	190.7	174.3	175.6	166.0	137.2	102.9
10419.1	67.5°	7057.2	3046.3	351.3	211.3	159.2	145.5	146.8	141.3	116.6	87.8
9123.7	70°	5927.9	2017.1	229.2	160.5	127.6	112.5	120.8	122.1	98.8	71.4
7002.3	72.5°	4345.7	1191.1	160.5	119.4	93.3	78.2	98.8	101.5	79.6	53.5
4212.6	75°	2476.8	565.3	120.8	86.4	57.6	54.9	76.8	76.8	54.9	35.7
1823.6	77.5°	1040.1	236.0	85.1	56.3	32.9	31.6	52.1	48.0	27.4	16.5
444.6	80°	300.5	105.7	45.3	27.4	13.7	12.3	20.6	15.1	6.9	2.7
168.8	82.5°	118.0	46.7	17.8	11.0	5.5	5.5	2.7	0.0	0.0	0.0
96.1	85°	70.0	19.2	8.2	4.1	1.4	0.0	0.0	0.0	0.0	0.0
20.6	87.5°	17.8	4.1	2.7	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

<u>180°</u>
2380.8
2364.3
2262.7
1973.2
1567.0
1222.6
1023.7
885.1
797.2
734.1
671.0
606.5
546.1
494.0
425.4
367.7
311.5
281.3
263.5
249.7
237.4
225.0
212.7
197.6
172.9
135.8
100.2
83.7
68.6
50.8
32.9
16.5
2.7
0.0
0.0
0.0
0.0

F REPORT)