

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: P944778

Luminaire Tested: **GALN-SB9D-850-U-T4FT-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944778  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-850-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

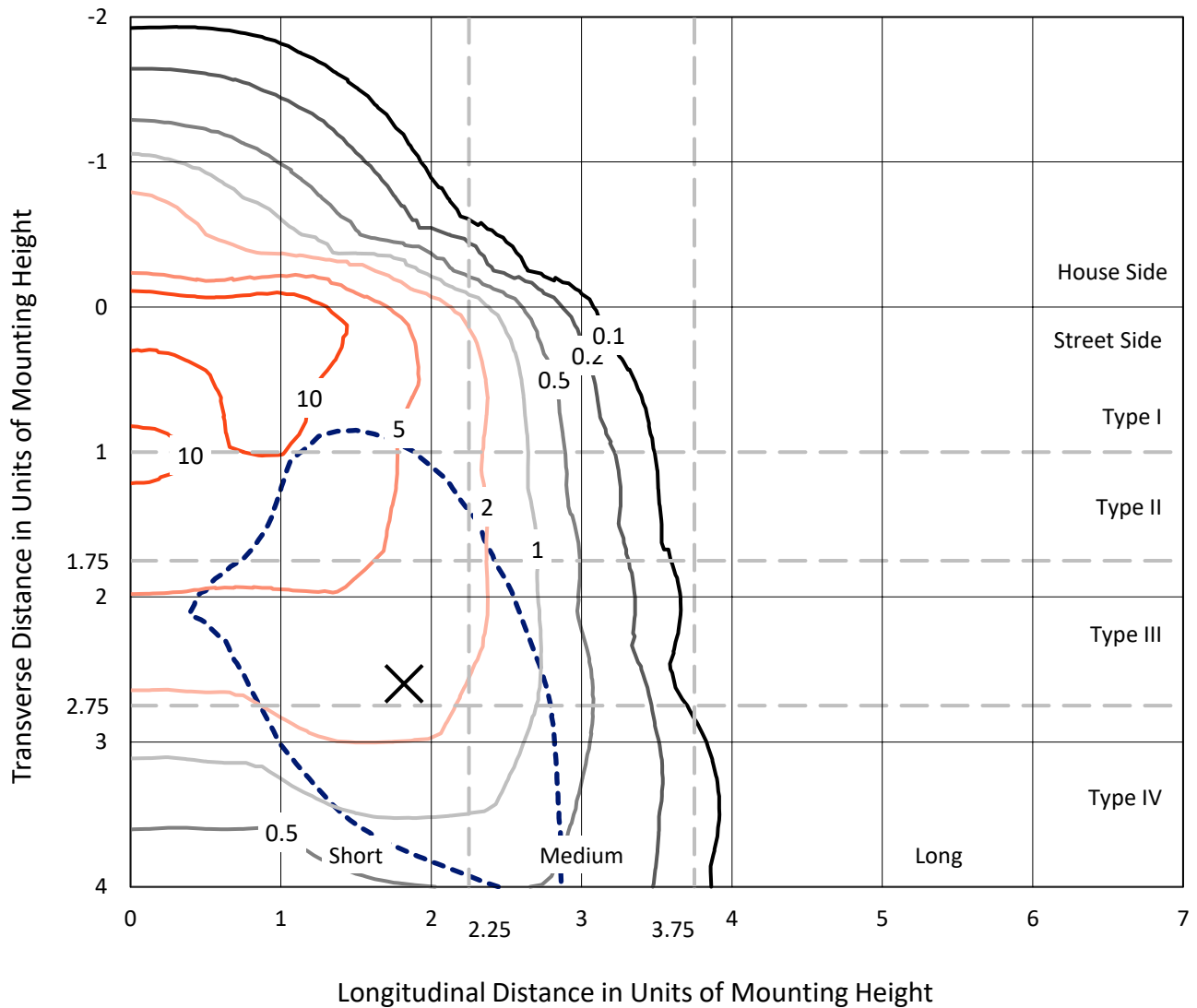
Lumens per Lamp: N/A  
Luminaire Lumens: 67126 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P944778  
 CATALOG NUMBER: GALN-SB9D-850-U-T4FT-HSS

### Iso-Footcandle Lines of Horizontal Illumination

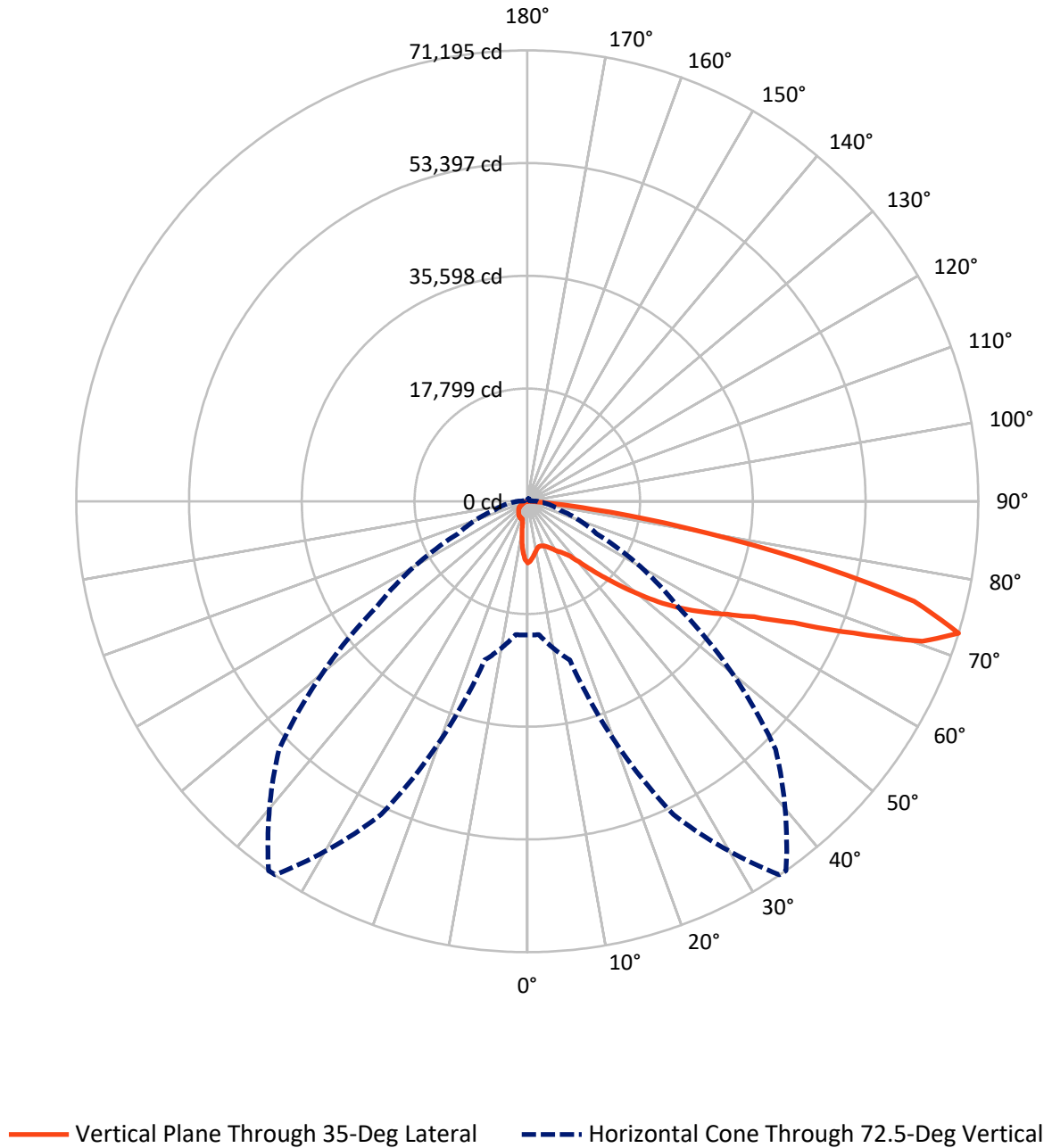
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc  
 Type IV - Short - N/A

REPORT NUMBER: P944778  
CATALOG NUMBER: GALN-SB9D-850-U-T4FT-HSS

### Luminous Intensity Polar Plot



REPORT NUMBER: P944778  
 CATALOG NUMBER: GALN-SB9D-850-U-T4FT-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7554.7	0.0	7554.7
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	59571.3	0.0	59571.3
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	67126.0	0.0	67126.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	799.4	1.2
10°-20°	1870.2	2.8
20°-30°	3038.1	4.5
30°-40°	5069.1	7.6
40°-50°	9590.8	14.3
50°-60°	15239.7	22.7
60°-70°	18852.6	28.1
70°-80°	11718.9	17.5
80°-90°	947.1	1.4
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°	67126.0	100.0
0°-180°	67126.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P944778

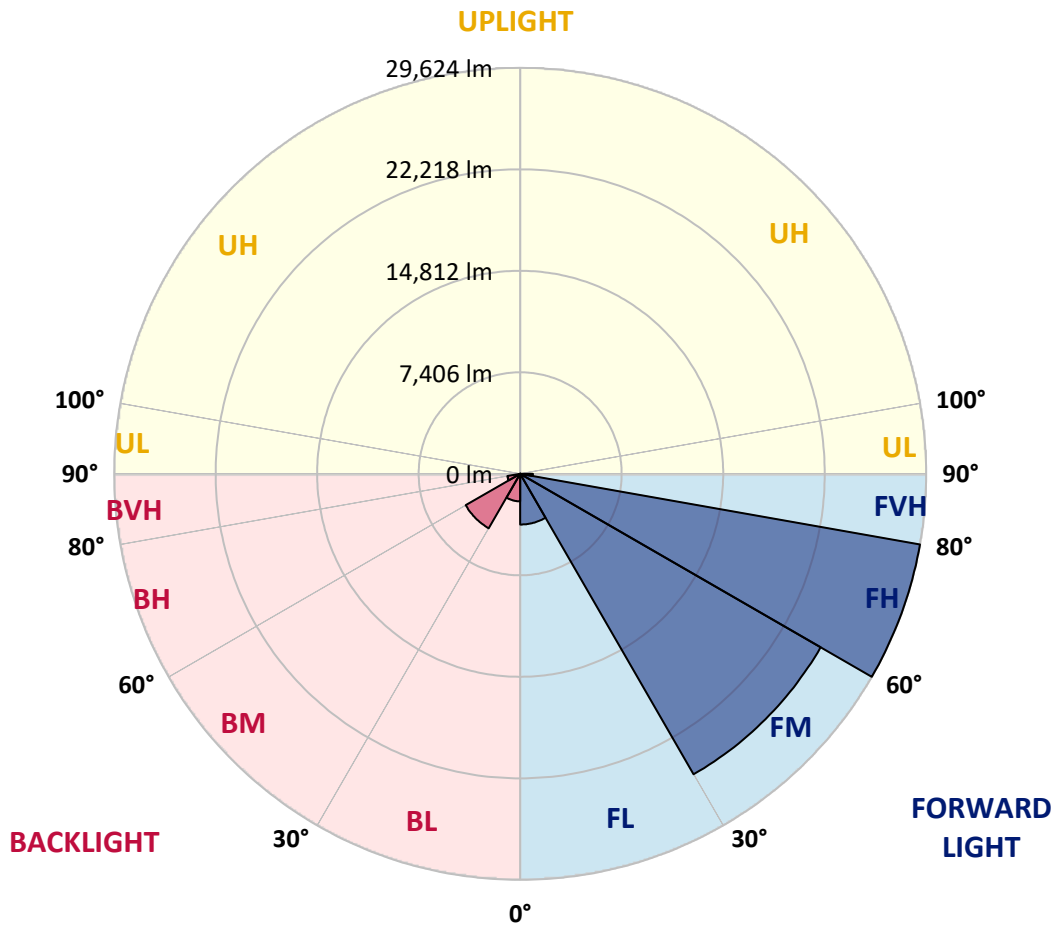
CATALOG NUMBER: GALN-SB9D-850-U-T4FT-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3700.3	5.5			
FM (30°-60°)	25313.2	37.7			
FH (60°-80°)	29623.5	44.1			G5
FVH (80°-90°)	934.2	1.4			G5
BL (0°-30°)	2007.4	3.0	B3/2500		
BM (30°-60°)	4586.4	6.8	B3/5000		
BH (60°-80°)	948.0	1.4	B2/1000		G2/1000
BVH (80°-90°)	12.9	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short



REPORT NUMBER: P944778  
 CATALOG NUMBER: GALN-SB9D-850-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°
0°	9728.8	9728.8	9728.8	9728.8	9728.8	9728.8	9728.8	9728.8	9728.8	9728.8
2.5°	9296.0	9374.7	9389.4	9414.0	9414.0	9443.5	9492.7	9561.6	9674.7	9733.7
5°	8568.0	8627.1	8700.8	8759.9	8873.0	8887.7	9079.6	9266.5	9527.1	9723.9
7.5°	7835.2	7904.0	8002.4	8145.0	8292.6	8336.9	8627.1	8941.8	9355.0	9723.9
10°	7318.7	7323.7	7412.2	7554.8	7790.9	7845.0	8199.2	8646.7	9163.2	9664.9
12.5°	7028.5	7063.0	7102.3	7210.5	7436.8	7471.2	7849.9	8376.2	8971.4	9630.4
15°	7028.5	7053.1	7077.7	7131.8	7313.8	7343.3	7677.8	8204.1	8873.0	9645.2
17.5°	7102.3	7141.7	7122.0	7185.9	7377.8	7397.4	7692.5	8154.9	8868.1	9738.6
20°	7279.4	7308.9	7269.6	7308.9	7500.7	7540.1	7845.0	8248.3	8951.7	9901.0
22.5°	7559.7	7574.5	7481.1	7510.6	7707.3	7756.5	8110.6	8513.9	9153.3	10161.6
25°	7913.9	7943.4	7800.8	7835.2	8022.1	8081.1	8489.3	8912.3	9473.0	10520.7
27.5°	8322.1	8336.9	8213.9	8209.0	8450.0	8533.6	8946.8	9404.2	9901.0	10973.2
30°	8789.4	8833.6	8715.6	8695.9	9000.9	9069.7	9478.0	10009.2	10530.5	11651.9
32.5°	9158.3	9192.7	9123.8	9173.0	9482.9	9537.0	10122.3	10865.0	11519.1	12616.0
35°	9689.5	9709.1	9551.7	9640.3	9994.4	10132.1	11002.7	12065.1	12763.5	13825.9
37.5°	11612.6	11612.6	10943.7	10505.9	10845.3	10968.3	12207.7	13575.1	14298.1	15449.0
40°	14273.5	14229.2	13250.5	12355.3	12311.0	12552.0	13924.3	15478.5	16280.3	17396.8
42.5°	17111.5	17042.6	15709.7	14824.4	14676.8	14760.4	15906.5	17824.7	18641.1	19772.4
45°	19629.8	19610.1	18390.3	17200.0	16934.4	17200.0	18380.5	20569.2	21154.5	22344.8
47.5°	21739.8	21739.8	20849.6	20072.4	19934.7	20092.1	21730.0	23613.8	23559.7	25084.4
50°	24169.5	24149.9	23303.9	22969.4	23112.1	23333.4	25586.1	26820.6	26048.4	27774.8
52.5°	25871.3	25989.4	25699.2	25645.1	26373.0	26756.7	29501.2	29958.6	28276.5	30327.5
55°	27219.0	27356.7	27691.2	28069.9	29471.7	29973.4	33293.4	32934.3	30140.6	32540.8
57.5°	29127.4	28930.7	29447.1	30194.7	32462.2	33067.1	36967.5	35742.8	31640.8	34336.1
60°	31444.0	31473.5	31562.1	32506.4	35447.7	36224.8	40587.5	38398.8	32604.8	35437.8
62.5°	34227.9	34272.2	34454.1	35905.1	39456.3	40189.1	44443.6	40572.8	33047.5	35128.0
65°	34036.1	34223.0	36254.3	41217.1	45550.3	46273.3	48944.1	42097.5	32378.5	32294.9
67.5°	31006.3	31311.2	34709.9	47562.0	54738.1	55544.7	54383.9	42397.5	29491.4	25113.9
70°	27032.1	27140.3	31227.6	53267.4	65376.8	66193.3	59253.3	39097.2	22379.2	14007.9
72.5°	21110.2	21134.8	25930.4	54590.5	71151.1	71195.4	55431.6	29024.1	12035.6	5380.8
75°	15080.1	14932.6	17367.3	44271.5	62597.8	63099.5	41556.5	13614.4	4598.8	2542.9
77.5°	8086.0	8248.3	9827.2	26255.0	43243.5	44099.3	22674.3	3925.0	2341.2	1731.3
80°	2498.6	2636.3	4028.3	12020.8	24494.2	25010.6	8405.7	1746.1	1632.9	1234.5
82.5°	787.0	816.5	1878.9	5051.3	10166.6	10402.6	2434.7	988.6	1116.5	816.5
85°	226.3	231.2	836.1	1883.8	2513.4	2562.5	683.7	383.6	639.4	506.6
87.5°	24.6	78.7	314.8	314.8	221.3	216.4	73.8	83.6	182.0	63.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P944778  
 CATALOG NUMBER: GALN-SB9D-850-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
9728.8	0°	9728.8	9728.8	9728.8	9728.8	9728.8	9728.8	9728.8	9728.8	9728.8	9728.8
9773.1	2.5°	9748.5	9753.4	9689.5	9581.3	9463.2	9364.8	9241.9	9143.5	9074.6	9055.0
9861.6	5°	9817.3	9782.9	9600.9	9271.4	8877.9	8538.5	8159.8	7859.8	7663.0	7579.4
9955.1	7.5°	9920.6	9822.3	9423.9	8774.6	8022.1	7353.2	6674.4	6148.1	5813.7	5646.4
10043.6	10°	10009.2	9812.4	9128.8	8056.5	6905.6	5892.4	4977.5	4343.0	3988.9	3821.7
10146.9	12.5°	10092.8	9807.5	8745.1	7205.6	5646.4	4407.0	3556.1	3241.3	3142.9	3108.5
10314.1	15°	10250.2	9822.3	8263.1	6231.7	4392.2	3329.8	3020.0	3015.0	3034.7	3024.9
10569.9	17.5°	10466.6	9837.0	7717.1	5198.9	3388.9	2936.3	2921.6	2965.9	2995.4	2980.6
10889.6	20°	10746.9	9896.0	7136.8	4175.8	2911.8	2838.0	2872.4	2911.8	2936.3	2911.8
11317.5	22.5°	11140.4	9999.3	6502.3	3354.4	2759.3	2779.0	2808.5	2852.7	2877.3	2842.9
11863.4	25°	11622.4	10161.6	5877.6	2916.7	2685.5	2710.1	2754.4	2803.5	2833.1	2798.6
12552.0	27.5°	12247.1	10422.3	5302.2	2818.3	2611.7	2626.5	2690.4	2764.2	2803.5	2759.3
13530.8	30°	13152.1	10850.2	4805.4	2862.6	2567.5	2533.0	2621.6	2724.9	2769.1	2729.8
14863.7	32.5°	14352.2	11455.2	4500.4	2931.4	2547.8	2424.8	2508.4	2641.2	2715.0	2690.4
16604.9	35°	15926.1	12375.0	4382.4	3010.1	2533.0	2311.7	2370.7	2513.4	2641.2	2665.8
18798.5	37.5°	17834.5	13653.8	4416.8	3044.6	2488.8	2218.2	2247.8	2370.7	2537.9	2616.6
21267.6	40°	20003.6	15144.1	4613.6	3010.1	2439.6	2139.6	2144.5	2237.9	2385.5	2503.5
23923.6	42.5°	22241.5	16885.2	4977.5	2882.2	2395.3	2070.7	2055.9	2119.9	2218.2	2301.9
26574.7	45°	24371.2	18675.6	5336.6	2705.2	2341.2	2001.8	1967.4	1992.0	2011.7	2046.1
29156.9	47.5°	26230.4	19934.7	5233.3	2542.9	2267.4	1923.1	1864.1	1854.3	1795.3	1790.3
31463.7	50°	27514.1	20210.1	4648.0	2380.6	2159.2	1834.6	1741.2	1682.1	1578.8	1529.7
33190.1	52.5°	27922.4	19123.2	3797.1	2218.2	1982.2	1716.6	1583.8	1490.3	1362.4	1318.2
34183.6	55°	27381.3	16993.4	3034.7	2021.5	1736.2	1559.2	1411.6	1288.6	1185.4	1131.3
34291.8	57.5°	26058.3	14283.3	2400.2	1790.3	1475.6	1382.1	1234.5	1111.6	1023.0	968.9
33091.7	60°	23864.6	11342.1	1898.5	1514.9	1259.1	1190.3	1037.8	959.1	880.4	816.5
29993.1	62.5°	20534.8	8095.9	1490.3	1200.1	1052.6	973.9	885.3	826.3	732.9	644.3
24420.4	65°	16024.5	4952.9	1150.9	880.4	846.0	806.6	752.5	698.4	585.3	496.8
15931.0	67.5°	10107.5	2346.1	821.4	664.0	668.9	649.2	624.7	580.4	496.8	418.1
7136.8	70°	4451.2	1136.2	541.0	506.6	496.8	496.8	516.4	501.7	423.0	349.2
2478.9	72.5°	1514.9	609.9	403.3	383.6	359.1	354.1	432.8	418.1	339.4	270.5
1234.5	75°	791.9	408.2	295.1	275.4	216.4	260.7	344.3	324.6	241.0	177.1
816.5	77.5°	516.4	290.2	201.7	177.1	123.0	172.1	255.8	226.3	142.6	88.5
536.1	80°	324.6	191.8	118.0	83.6	59.0	93.5	137.7	98.4	54.1	19.7
314.8	82.5°	172.1	98.4	44.3	29.5	24.6	29.5	34.4	24.6	9.8	0.0
162.3	85°	68.9	34.4	14.8	9.8	4.9	0.0	9.8	4.9	0.0	0.0
29.5	87.5°	24.6	4.9	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

<u>180°</u>
9728.8
9089.4
7608.9
5671.0
3826.6
3098.7
3020.0
2975.7
2906.8
2838.0
2793.7
2759.3
2724.9
2690.4
2665.8
2636.3
2542.9
2336.3
2065.8
1785.4
1534.6
1313.2
1131.3
959.1
801.7
629.6
482.0
408.2
334.5
255.8
162.3
78.7
14.8
0.0
0.0
0.0
0.0

F REPORT)