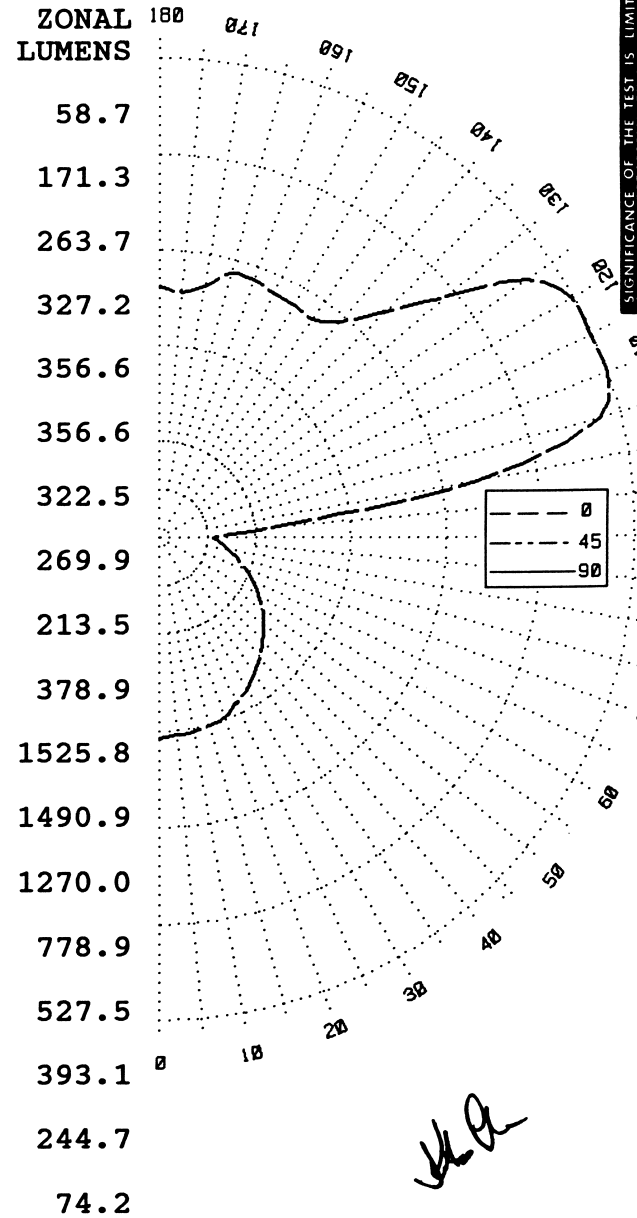


BALLABS CERTIFIED TEST REPORT NO.: 8425.1 DATE 08/29/95  
 PREPARED FOR: GROSS CHANDELIER COMPANY - ST. LOUIS, MISSOURI  
 DESCRIPTION: 1/175W CTD ED28 LAMP 24"DIA DIR/INDIRECT LUMINAIRE  
 CLR/FROSTED/LENS w/WHITE REFLECTOR  
 WHITE ACRYLIC BOWL w/OPEN TOP  
 CATALOG NBR: \*\*\* \*\*GENERATED FROM #8425.0\*\*\*  
 LAMP TYPE : M57PF-175 LUMENS 15000. NBR. LAMPS:- 1

### CANDLEPOWER DISTRIBUTION

VERT ANG	AVERAGE CANDELA	ZONAL LUMENS
0	622.	
5	615.	58.7
10	612.	
15	604.	171.3
20	596.	
25	570.	263.7
30	551.	
35	521.	327.2
40	491.	
45	460.	356.6
50	430.	
55	397.	356.6
60	360.	
65	325.	322.5
70	288.	
75	255.	269.9
80	222.	
85	196.	213.5
90	168.	
95	347.	378.9
100	1015.	
105	1442.	1525.8
110	1509.	
115	1502.	1490.9
120	1503.	
125	1416.	1270.0
130	1181.	
135	1006.	778.9
140	888.	
145	840.	527.5
150	846.	
155	849.	393.1
160	863.	
165	863.	244.7
170	804.	
175	777.	74.2
180	792.	



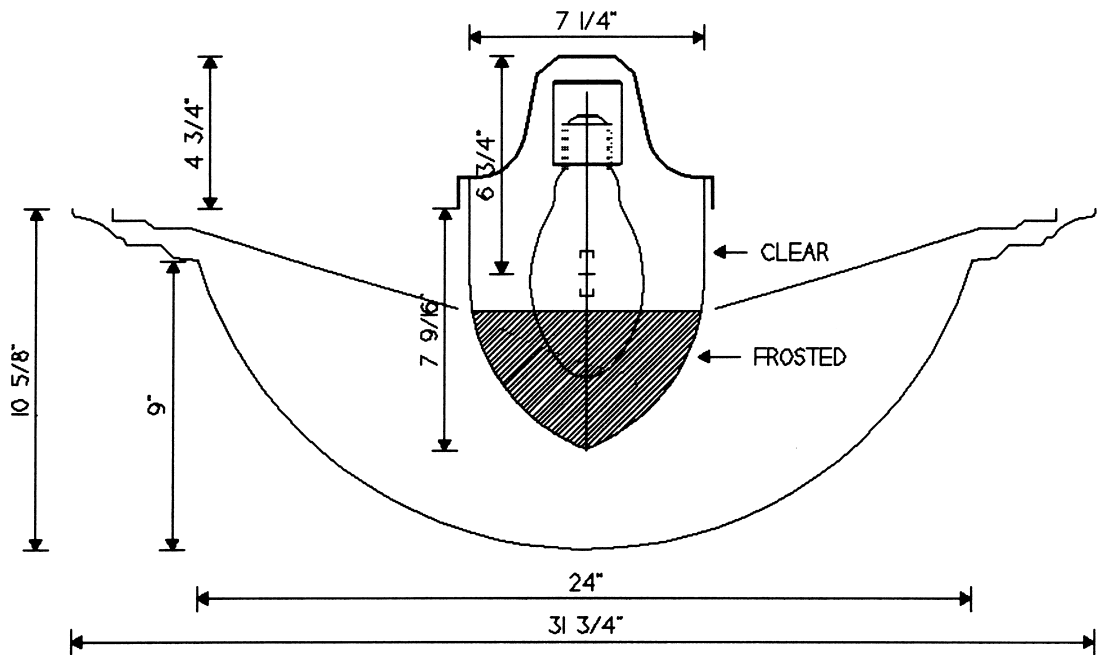
### LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	494.	3.3	5.5	90-120	3396.	22.6	37.6
0- 40	821.	5.5	9.1	90-130	4666.	31.1	51.7
0- 60	1534.	10.2	17.0	90-150	5972.	39.8	66.2
0- 90	2340.	15.6	25.9	90-180	6684.	44.6	74.1
TOTAL LUMINAIRE =				0-180	9024.	60.2	100.0

IES SPACING CRITERIA: ADJACENT= 1.3 DIAGONAL= .9

SIGNIFICANCE OF THE TEST IS LIMITED TO THE DEGREE THAT THE TESTED SAMPLE IS REPRESENTATIVE. OTHER FACTORS AFFECT FIELD PERFORMANCE.

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ZONAL CAVITY COEFFICIENTS OF UTILIZATION

EFFECTIVE FLOOR CAVITY REFLECTANCE=.20

CEILING	.80				.70				.50				.30				.10				.00
WALL	.70	.50	.30	.10	.70	.50	.30	.10	.50	.30	.10	.50	.30	.10	.50	.30	.10	.50	.30	.10	.00
RCR																					
0	.61	.61	.61	.61	.54	.54	.54	.54	.42	.42	.42	.31	.31	.31	.20	.20	.20	.20	.20	.20	.16
1	.55	.52	.50	.48	.49	.47	.45	.43	.36	.35	.33	.26	.25	.25	.17	.17	.17	.17	.17	.17	.12
2	.50	.45	.42	.38	.44	.40	.37	.35	.31	.29	.27	.23	.21	.20	.15	.14	.13	.13	.13	.13	.10
3	.45	.40	.35	.32	.40	.35	.32	.29	.27	.25	.23	.20	.18	.17	.13	.12	.12	.12	.12	.12	.08
4	.41	.35	.30	.27	.37	.31	.27	.24	.24	.21	.19	.18	.16	.14	.12	.10	.10	.10	.10	.10	.07
5	.38	.31	.26	.23	.33	.28	.24	.20	.21	.18	.16	.16	.14	.12	.10	.09	.09	.09	.09	.09	.06
6	.35	.28	.23	.19	.31	.25	.21	.18	.19	.16	.14	.14	.12	.10	.09	.08	.08	.08	.08	.08	.05
7	.32	.25	.20	.17	.28	.22	.18	.15	.17	.14	.12	.13	.11	.09	.08	.07	.07	.07	.07	.07	.04
8	.30	.22	.18	.15	.26	.20	.16	.13	.16	.13	.11	.11	.09	.08	.07	.06	.06	.06	.06	.06	.04
9	.27	.20	.16	.13	.24	.18	.14	.12	.14	.11	.09	.10	.08	.07	.07	.05	.05	.05	.05	.05	.03
10	.26	.19	.14	.12	.23	.17	.13	.11	.13	.10	.08	.09	.08	.06	.06	.05	.05	.05	.05	.05	.03

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES