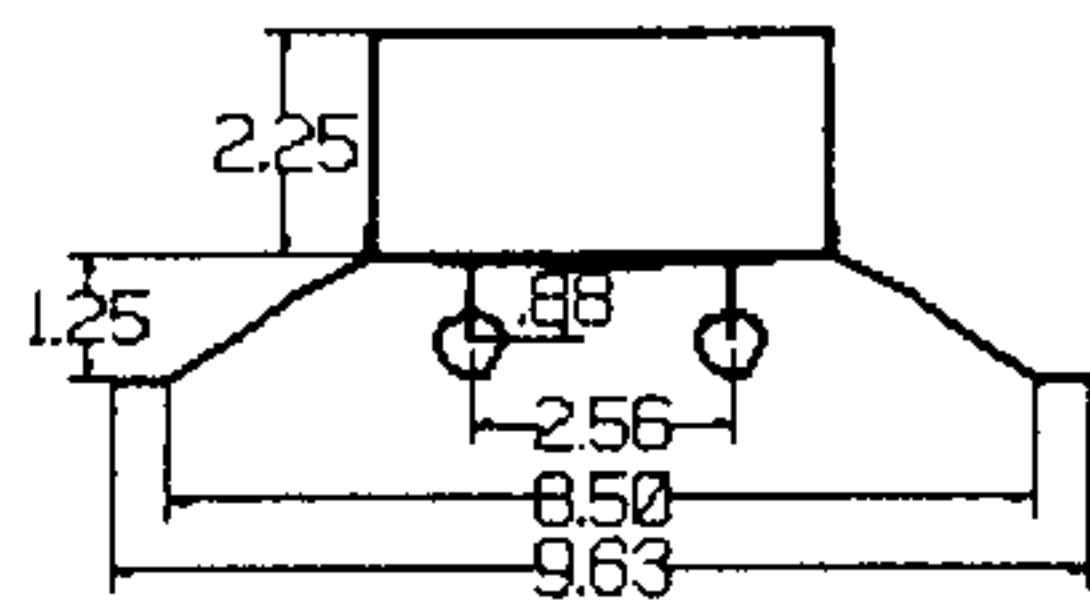
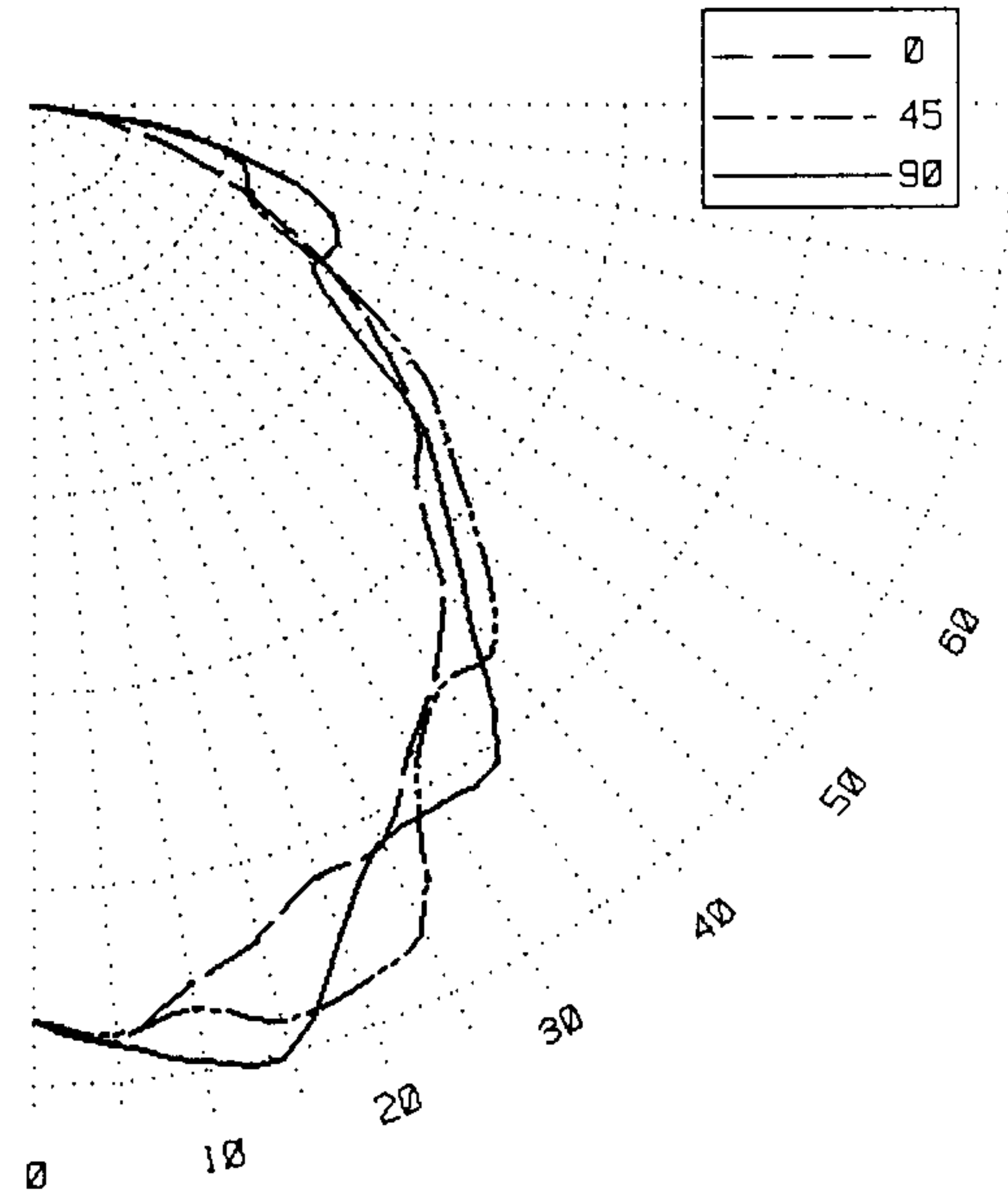


BALLABS CERTIFIED TEST REPORT NO.: 15467.0 DATE 06/08/10
 PREPARED FOR: TECHBRITE - CINCINNATI, OH
 DESCRIPTION: 4/54W T5HO LAMP 8' TECHSTRIP LUMINAIRE
 MIRO4 FORMED ALUMINUM REFLECTOR
 SYLVANIA BALLAST #QTP4x54T5HO/UNVPSNHTW WATTS=225
 CATALOG NBR: T844T51MRHT0000 R894T51MRHT0000
 LAMP TYPE : FP54/850/HO/ECO RATED LUMENS 4900. NBR. LAMPS:- 4

CANDLEPOWER DISTRIBUTION

VERT ANG	HORIZONTAL ANGLE					ZONAL LUMENS
0	22.5	45	67.5	90		
0	6408.	6408.	6408.	6408.	6408.	
5	6565.	6487.	6520.	6565.	6591.	624.0
10	6238.	6198.	6407.	6681.	6778.	
15	6022.	6120.	6622.	6850.	6856.	1844.7
20	5736.	6036.	6550.	6400.	6205.	
25	5701.	6209.	6372.	5734.	5681.	2777.9
30	5206.	5851.	5317.	5440.	5636.	
35	4860.	5551.	4945.	5655.	5597.	3357.6
40	4411.	5023.	4958.	4860.	4704.	
45	3740.	3987.	4372.	4065.	4039.	3158.5
50	3466.	3531.	3759.	3681.	3499.	
55	2951.	3284.	3284.	2834.	2638.	2735.6
60	2423.	2919.	2482.	2117.	2241.	
65	1863.	2130.	1694.	2091.	2313.	1986.0
70	1355.	1589.	1576.	2085.	2176.	
75	853.	899.	1485.	1661.	1694.	1406.6
80	436.	742.	1049.	957.	886.	
85	143.	417.	241.	104.	71.	237.0
90	0.	0.	0.	0.	0.	



[Handwritten signature]

LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT	ZONE	LUMENS	%LAMP	%FIXT
0- 30	5247.	26.8	28.9	90-120	0.	.0	.0
0- 40	8604.	43.9	47.5	90-130	0.	.0	.0
0- 60	14498.	74.0	80.0	90-150	0.	.0	.0
0- 90	18128.	92.5	100.0	90-180	0.	.0	.0
TOTAL LUMINAIRE = 0-180					18128.	92.5	100.0

IES SPACING CRITERIA: END= 1.2 DIAGONAL = 1.2 CROSS= 1.3

BALLABS CERTIFIED TEST REPORT NO.: 15467.0 DATE 06/08/10
 PREPARED FOR: TECHBRITE - CINCINNATI, OH
 DESCRIPTION: 4/54W T5HO LAMP 8'TECHSTRIP LUMINAIRE
 MIRO4 FORMED ALUMINUM REFLECTOR
 SYLVANIA BALLAST #QTP4x54T5HO/UNVPSNHTW WATTS=225
 CATALOG NBR: T844T51MRHT0000 R894T51MRHT0000
 LAMP TYPE : FP54/850/HO/ECO RATED LUMENS 4900. NBR. LAMPS:- 4

LUMINANCES-CD/SQ-M
 HORIZONTAL ANGLE

VERT ANGLE	0	45	90
45	8967.	10482.	9684.
55	8723.	9707.	7797.
65	7474.	6796.	9279.
75	5587.	9727.	11096.
85	2782.	4688.	1381.

MAXIMUM BRIGHTNESSES NOT MEASURED

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	.00
RCR																		
0	1.10	1.10	1.10	1.10	1.08	1.08	1.08	1.08	1.03	1.03	1.03	.98	.98	.98	.94	.94	.94	.92
1	1.02	.98	.94	.91	.99	.95	.92	.89	.92	.89	.86	.88	.86	.84	.85	.83	.81	.79
2	.93	.86	.80	.75	.91	.84	.79	.74	.81	.76	.72	.78	.74	.71	.75	.72	.69	.67
3	.85	.76	.69	.64	.83	.75	.68	.63	.72	.67	.62	.70	.65	.61	.67	.63	.60	.58
4	.78	.68	.60	.54	.76	.67	.60	.54	.64	.58	.53	.62	.57	.53	.60	.56	.52	.50
5	.72	.60	.52	.46	.70	.59	.52	.46	.57	.51	.46	.56	.50	.45	.54	.49	.45	.43
6	.66	.54	.46	.40	.64	.53	.46	.40	.52	.45	.40	.50	.44	.39	.49	.43	.39	.37
7	.61	.49	.41	.35	.59	.48	.40	.35	.47	.40	.35	.45	.39	.35	.44	.39	.34	.33
8	.56	.44	.36	.31	.55	.43	.36	.31	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28
9	.52	.39	.32	.27	.50	.39	.31	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24
10	.48	.36	.28	.23	.47	.35	.28	.23	.34	.28	.23	.33	.27	.23	.33	.27	.23	.21

TESTED IN ACCORDANCE WITH CURRENT IES PROCEDURES