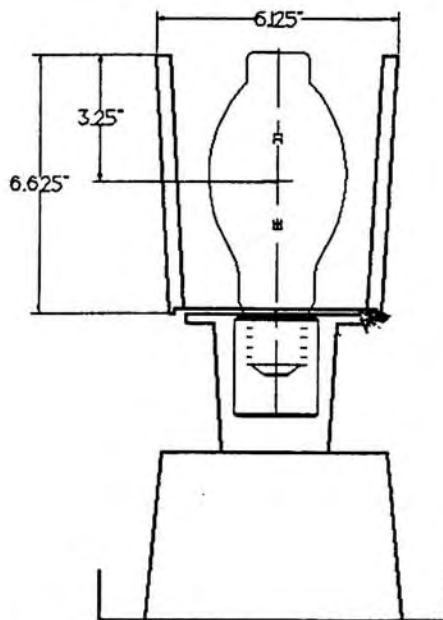


BALLABS CERTIFIED TEST REPORT NO.: 10723.0 DATE 06/23/00
PREPARED FOR: POLYMER PRODUCTS, LLC - STAMFORD, CONN
DESCRIPTION: 1/175W CLEAR BT28 MH LAMP 6"DIA POST LIGHT REFRACTOR
L-5 TYPE V BOROSILICA GLASS REFRACTOR - OPEN TOP
MOUNTED ON CAST ALUMINUM FITTER - NO GLOBE ASSEMBLY
CATALOG NBR: 19-02-62-325
LAMP TYPE : M57 (M175/U) RATED LUMENS 15000. NBR. LAMPS:- 1

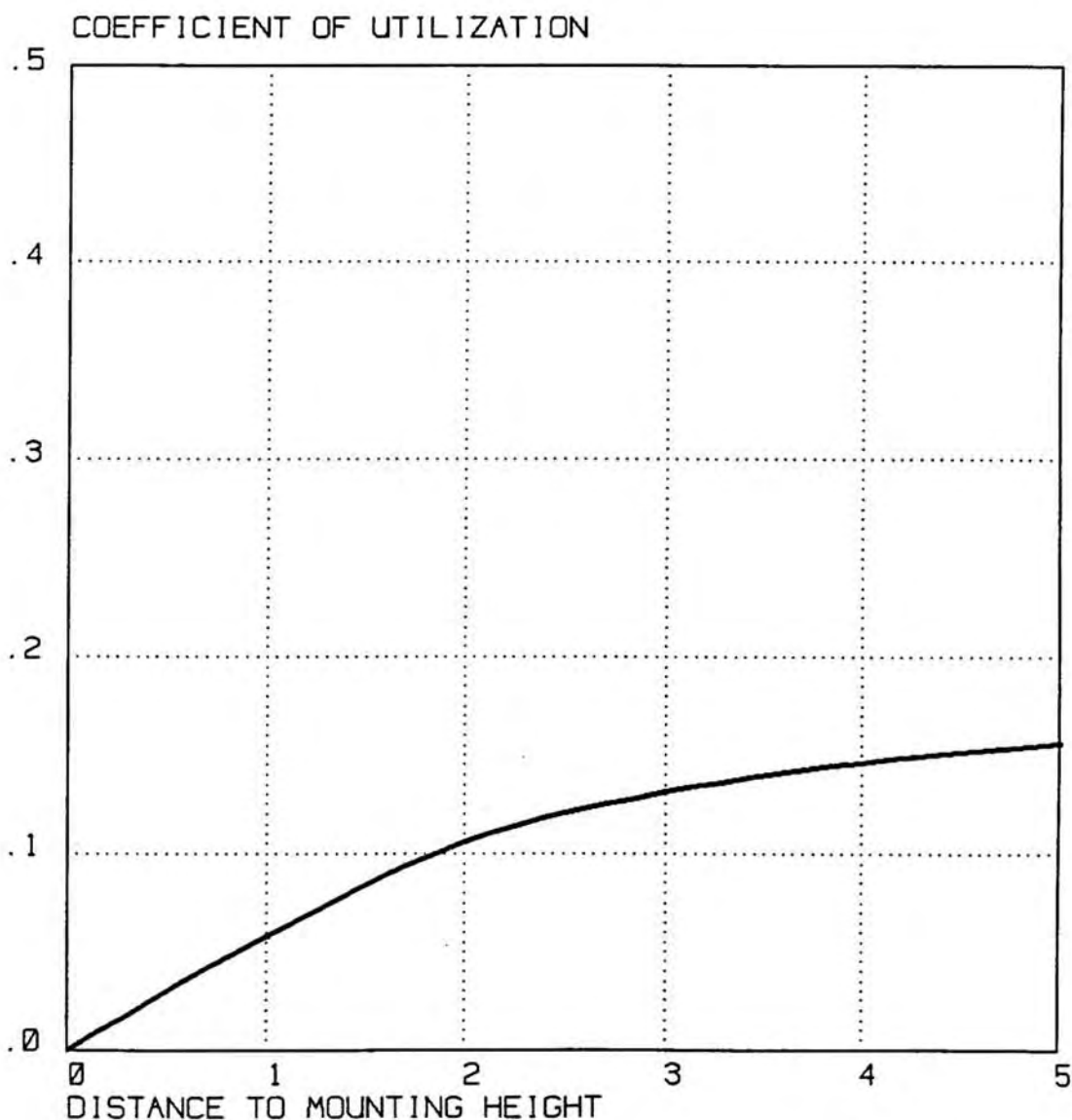


IES CUTOFF CLASSIFICATION: NON CUTOFF
IES ROADWAY CLASSIFICATION: TYPE V -LONG

TESTED IN ACCORDANCE WITH CURRENT IES STANDARDS

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| COEFFICIENTS OF UTILIZATION | | | EFFICIENCY | | |
|-----------------------------|-------|------|------------|--------|-------|
| RATIO | FRONT | BACK | BACK | LUMENS | %LAMP |
| 0.5 | .024 | .024 | DOWNWARD | 2976. | 19.8 |
| 1.0 | .058 | .058 | UPWARD | 3838. | 25.6 |
| 2.0 | .106 | .106 | FRONT | | |
| 3.0 | .131 | .131 | DOWNWARD | 2976. | 19.8 |
| 4.0 | .146 | .146 | UPWARD | 3838. | 25.6 |
| 5.0 | .156 | .156 | TOTAL | 13628. | 90.9 |



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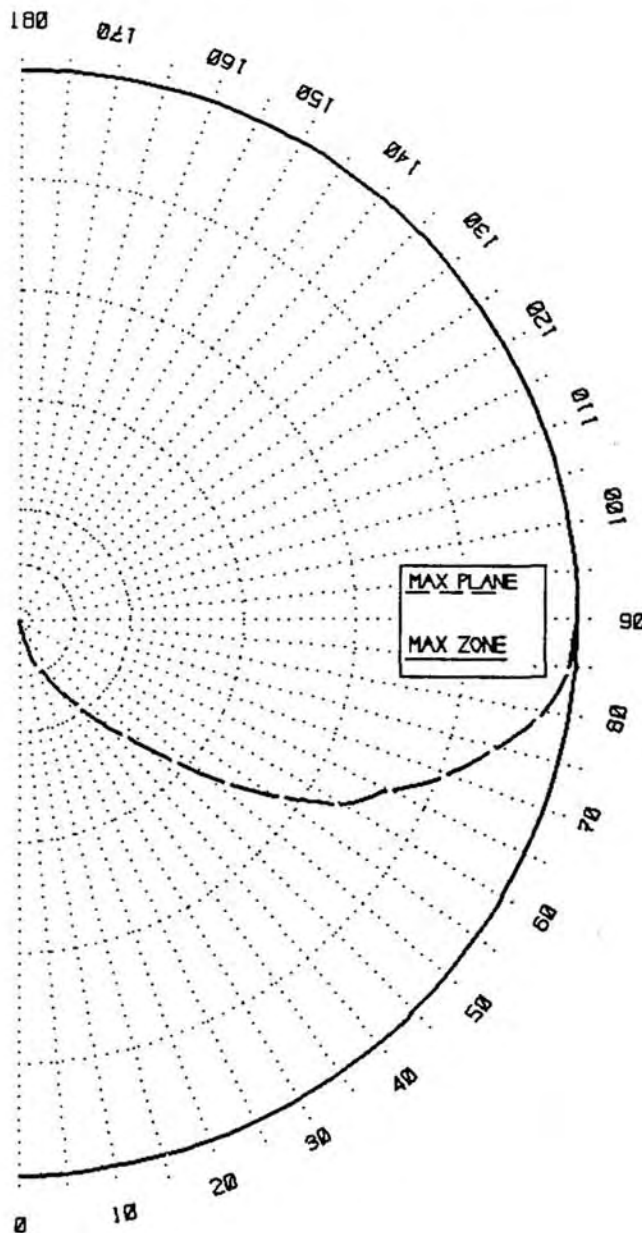
CATALOG NBR: 19-02-62-325

LAMP TYPE : M57 (M175/U)

RATED LUMENS 15000. NBR. LAMPS:- 1

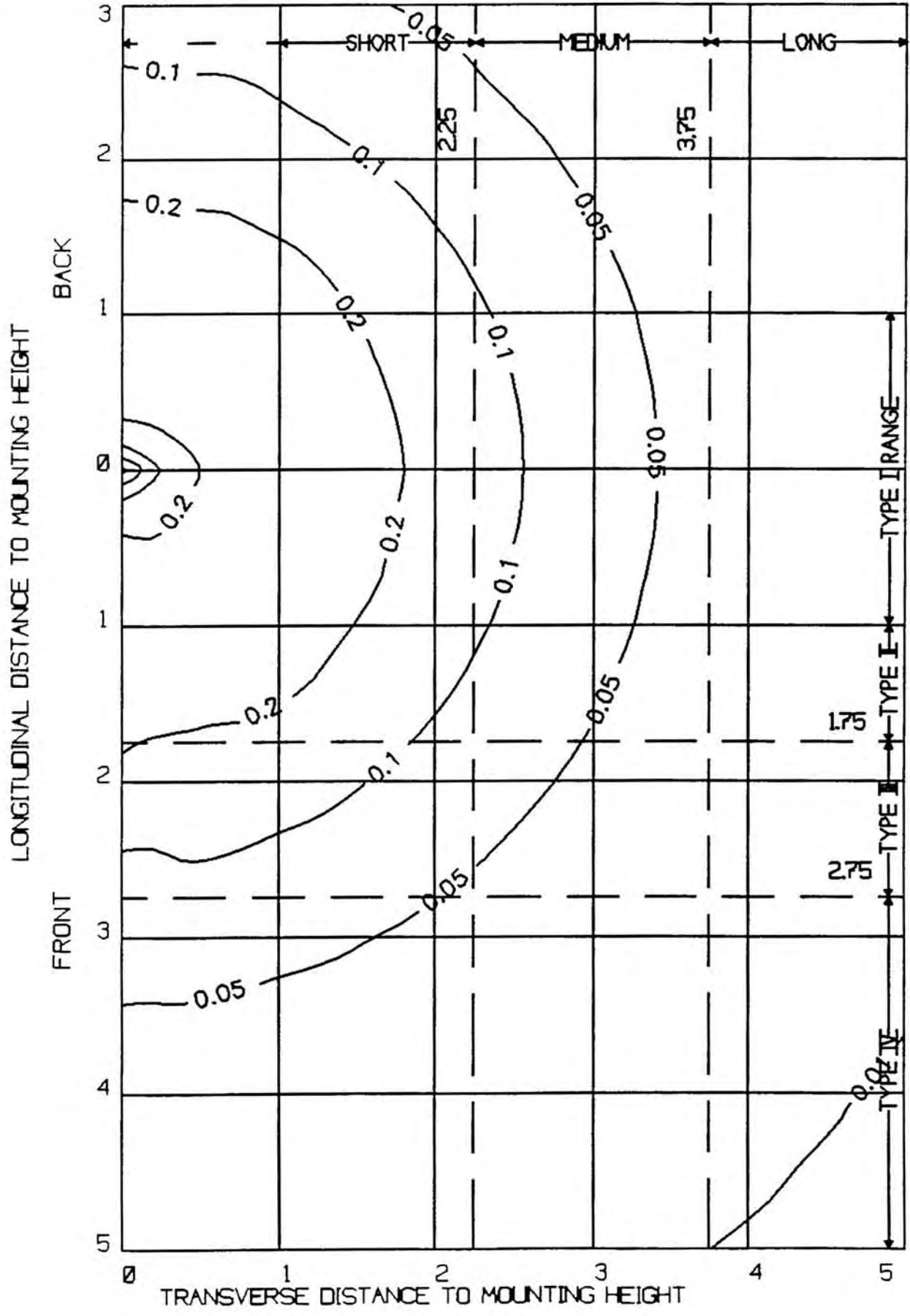
VALUE OF MAXIMUM BEAM CANDLEPOWER 1626.
 PLANE OF MAXIMUM BEAM CANDLEPOWER 180.
 ZONE OF MAXIMUM BEAM CANDLEPOWER 90.0

| ANGLE | CANDLEPOWER IN MAX. PLANE |
|-------|---------------------------|
| .0 | 0. |
| 5.0 | 0. |
| 10.0 | 7. |
| 15.0 | 56. |
| 20.0 | 129. |
| 25.0 | 171. |
| 30.0 | 229. |
| 35.0 | 310. |
| 40.0 | 405. |
| 45.0 | 523. |
| 50.0 | 698. |
| 55.0 | 898. |
| 60.0 | 1083. |
| 62.5 | 1134. |
| 65.0 | 1184. |
| 67.5 | 1261. |
| 70.0 | 1325. |
| 72.5 | 1383. |
| 75.0 | 1439. |
| 77.5 | 1497. |
| 80.0 | 1554. |
| 82.5 | 1587. |
| 85.0 | 1608. |
| 87.5 | 1615. |
| 90.0 | 1626. |



| ANGLE | CANDLEPOWER IN MAX. ZONE |
|-------|--------------------------|
| 0 | 1626. |
| 5 | 1626. |
| 15 | 1626. |
| 25 | 1626. |
| 35 | 1626. |
| 45 | 1626. |
| 55 | 1626. |
| 65 | 1626. |
| 75 | 1626. |
| 85 | 1626. |
| 90 | 1626. |
| 95 | 1626. |
| 105 | 1626. |
| 115 | 1626. |
| 125 | 1626. |
| 135 | 1626. |
| 145 | 1626. |
| 155 | 1626. |
| 165 | 1626. |
| 175 | 1626. |
| 180 | 1626. |

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 CATALOG NBR: 19-02-62-325
 LAMP TYPE : M57 (M175/U) RATED LUMENS 15000. NBR. LAMPS:- 1
 ISO-FOOTCANDLES - 25.00 FOOT MOUNTING HEIGHT



TO CONVERT TO NEW MH MULTIPLY FC BY

| MH | XFC |
|-----|------|
| 15. | 2.78 |
| 16. | 2.44 |
| 17. | 2.16 |
| 18. | 1.93 |
| 19. | 1.73 |
| 20. | 1.56 |
| 21. | 1.42 |
| 22. | 1.29 |
| 23. | 1.18 |
| 24. | 1.09 |
| 25. | 1.00 |
| 26. | .92 |
| 27. | .86 |
| 28. | .80 |
| 29. | .74 |
| 30. | .69 |
| 31. | .65 |
| 32. | .61 |
| 33. | .57 |
| 34. | .54 |
| 35. | .51 |